

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

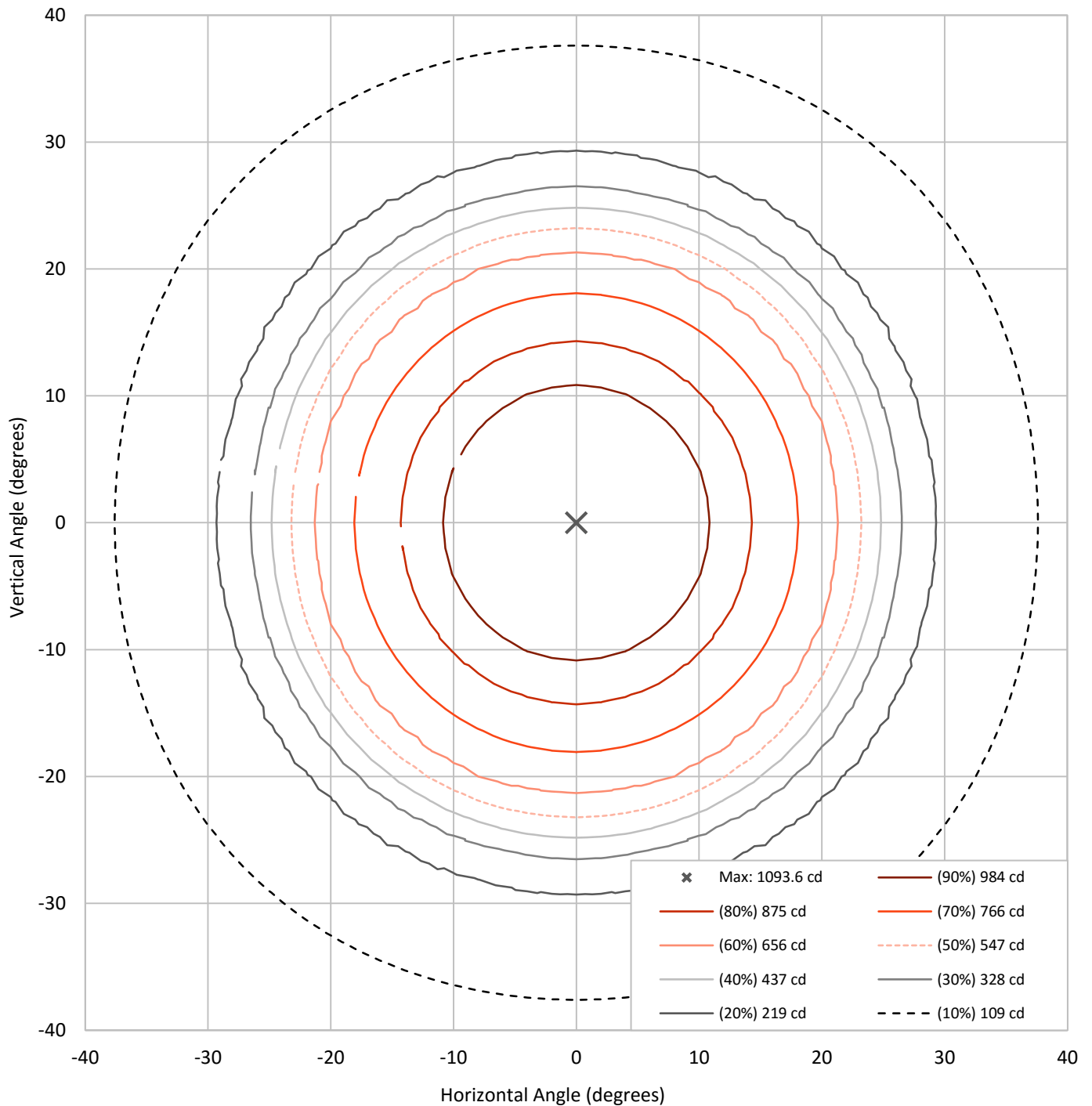
Test Method: LM-79-08  
Report Number: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29471)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, WIDE  
FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	736.1 lumens	Max Intensity:	1093.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.25' x H: 0')		
Beam Angle (50%):	46.5°H x 46.5°V	Field Angle (10%):	75.2°H x 75.2°V
Beam Lumens:	422.8 lumens	Field Lumens:	602.4 lumens
Beam Efficiency:	57.4%	Field Efficiency:	81.8%
Input Watts (W):	9.8		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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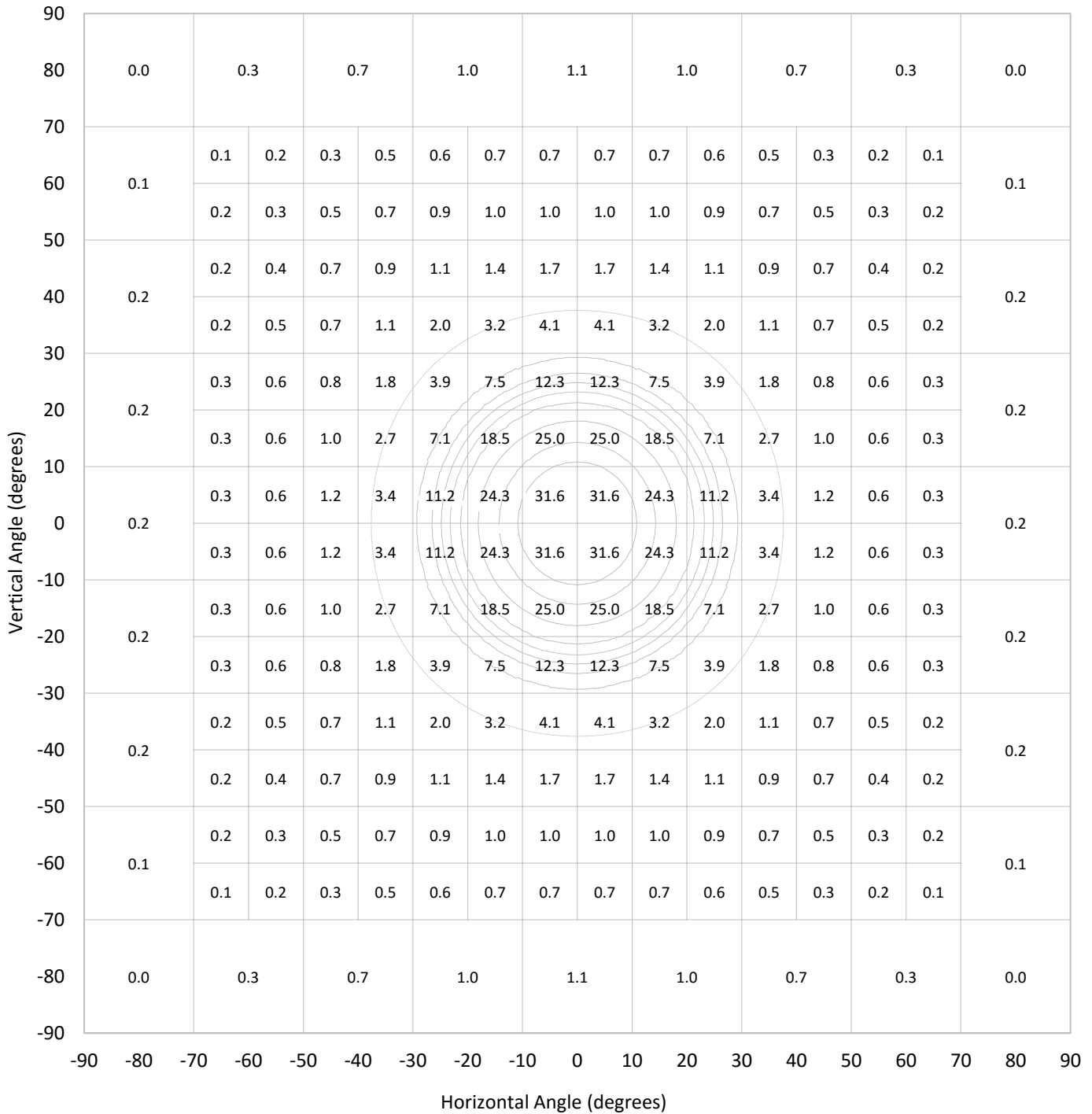
### Iso-Candela Plot





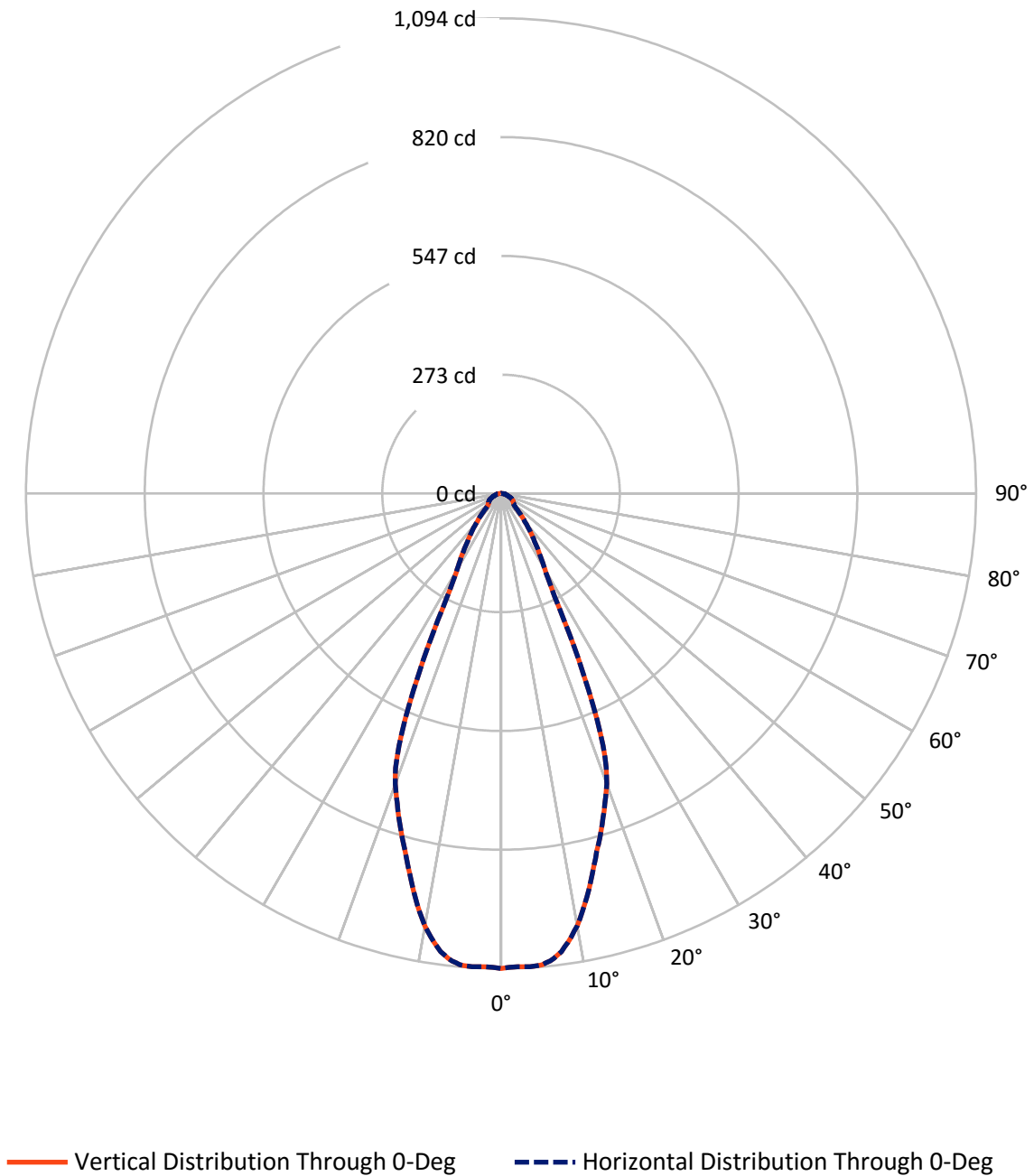
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### Lumen Table



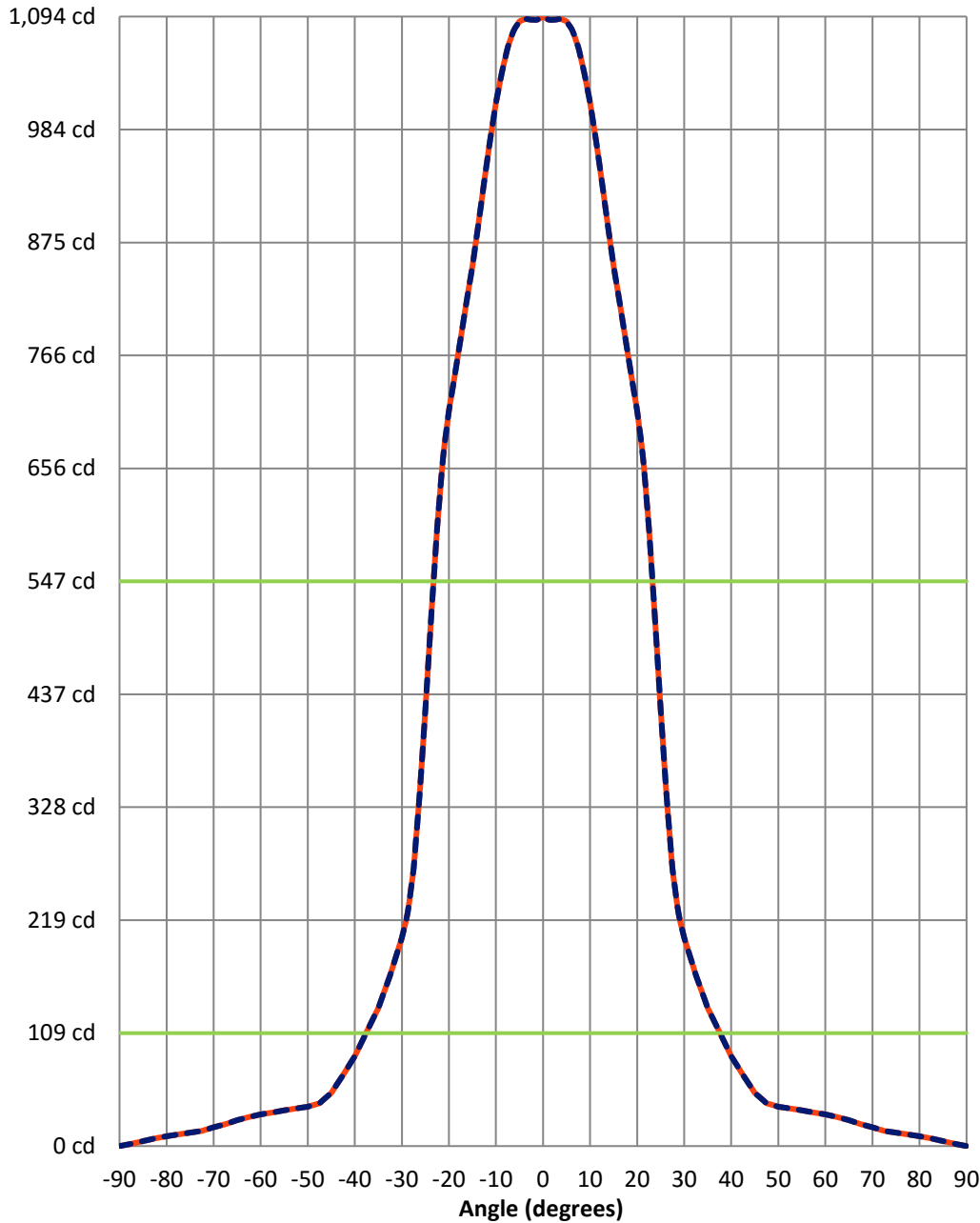
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 46.5°  
 V Angle: 46.5°  
 Lumens: 422.8  
 Efficiency: 57.4%

**Field:**  
 H Angle: 75.2°  
 V Angle: 75.2°  
 Lumens: 602.4  
 Efficiency: 81.8%

**Spill:**  
 Lumens: 133.7  
 Efficiency: 18.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-88.75°	-87.5°	-86.25°	-85°	-83.75°	-82.5°	-81.25°	-80°	-78.75°	-77.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5
86.25°	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7
85°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
83.75°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
82.5°	0.0	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4
81.25°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7
80°	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.9
78.75°	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1
77.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
76.25°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.7
75°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9
73.75°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.5	2.9	3.2
72.5°	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.1	3.5
71.25°	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.7
70°	0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.6	4.0
68.75°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.9	3.4	3.8	4.3
67.5°	0.0	0.4	0.8	1.3	1.7	2.1	2.6	3.1	3.6	4.1	4.5
66.25°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.3	3.8	4.3	4.8
65°	0.0	0.5	0.9	1.4	1.9	2.3	2.9	3.4	4.0	4.5	5.1
63.75°	0.0	0.5	1.0	1.5	1.9	2.5	3.0	3.6	4.2	4.7	5.3
62.5°	0.0	0.5	1.0	1.5	2.0	2.6	3.2	3.8	4.4	5.0	5.6
61.25°	0.0	0.5	1.1	1.6	2.1	2.7	3.3	4.0	4.6	5.2	5.8
60°	0.0	0.5	1.1	1.6	2.2	2.8	3.5	4.1	4.8	5.4	6.1
58.75°	0.0	0.6	1.1	1.7	2.3	3.0	3.6	4.3	5.0	5.6	6.3
57.5°	0.0	0.6	1.2	1.8	2.4	3.1	3.8	4.5	5.2	5.9	6.5
56.25°	0.0	0.6	1.2	1.8	2.5	3.2	3.9	4.6	5.4	6.1	6.8
55°	0.0	0.6	1.3	1.9	2.6	3.3	4.1	4.8	5.5	6.3	7.0
53.75°	0.0	0.7	1.3	2.0	2.7	3.4	4.2	5.0	5.7	6.5	7.2
52.5°	0.0	0.7	1.3	2.0	2.8	3.6	4.3	5.1	5.9	6.7	7.5
51.25°	0.0	0.7	1.4	2.1	2.9	3.7	4.5	5.3	6.1	6.9	7.6
50°	0.0	0.7	1.4	2.1	2.9	3.8	4.6	5.4	6.3	7.1	7.8
48.75°	0.0	0.7	1.5	2.2	3.0	3.9	4.7	5.6	6.4	7.3	8.0
47.5°	0.0	0.7	1.5	2.2	3.1	4.0	4.9	5.7	6.6	7.5	8.2
46.25°	0.0	0.8	1.5	2.3	3.2	4.1	5.0	5.9	6.8	7.6	8.3
45°	0.0	0.8	1.6	2.4	3.3	4.2	5.1	6.0	6.9	7.8	8.5
43.75°	0.0	0.8	1.6	2.4	3.4	4.3	5.2	6.2	7.1	7.9	8.7
42.5°	0.0	0.8	1.6	2.5	3.4	4.4	5.3	6.3	7.2	8.0	8.8
41.25°	0.0	0.8	1.7	2.5	3.5	4.5	5.5	6.4	7.4	8.2	9.0
40°	0.0	0.8	1.7	2.6	3.6	4.6	5.6	6.6	7.5	8.3	9.1
38.75°	0.0	0.9	1.7	2.6	3.7	4.7	5.7	6.7	7.6	8.5	9.3
37.5°	0.0	0.9	1.7	2.7	3.7	4.8	5.8	6.8	7.8	8.6	9.4
36.25°	0.0	0.9	1.8	2.7	3.8	4.8	5.9	6.9	7.9	8.7	9.5
35°	0.0	0.9	1.8	2.8	3.9	4.9	6.0	7.0	8.0	8.8	9.7



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**CANDELA DISTRIBUTION (continued):**

	-90°	-88.75°	-87.5°	-86.25°	-85°	-83.75°	-82.5°	-81.25°	-80°	-78.75°	-77.5°
33.75°	0.0	0.9	1.8	2.8	3.9	5.0	6.1	7.2	8.1	8.9	9.8
32.5°	0.0	0.9	1.9	2.9	4.0	5.1	6.2	7.3	8.2	9.1	9.9
31.25°	0.0	0.9	1.9	2.9	4.0	5.2	6.3	7.4	8.3	9.2	10.0
30°	0.0	1.0	1.9	3.0	4.1	5.2	6.4	7.5	8.4	9.3	10.1
28.75°	0.0	1.0	1.9	3.0	4.2	5.3	6.4	7.5	8.5	9.4	10.2
27.5°	0.0	1.0	2.0	3.1	4.2	5.4	6.5	7.6	8.5	9.5	10.3
26.25°	0.0	1.0	2.0	3.1	4.3	5.4	6.6	7.7	8.6	9.6	10.4
25°	0.0	1.0	2.0	3.1	4.3	5.5	6.7	7.8	8.7	9.6	10.4
23.75°	0.0	1.0	2.0	3.2	4.4	5.5	6.7	7.8	8.8	9.7	10.5
22.5°	0.0	1.0	2.0	3.2	4.4	5.6	6.8	7.9	8.9	9.8	10.6
21.25°	0.0	1.0	2.1	3.2	4.4	5.7	6.9	7.9	8.9	9.8	10.7
20°	0.0	1.0	2.1	3.3	4.5	5.7	6.9	8.0	9.0	9.9	10.7
18.75°	0.0	1.0	2.1	3.3	4.5	5.8	7.0	8.1	9.0	10.0	10.8
17.5°	0.0	1.0	2.1	3.3	4.6	5.8	7.0	8.1	9.1	10.0	10.9
16.25°	0.0	1.1	2.1	3.3	4.6	5.8	7.1	8.2	9.2	10.1	10.9
15°	0.0	1.1	2.1	3.4	4.6	5.9	7.1	8.2	9.2	10.1	11.0
13.75°	0.0	1.1	2.1	3.4	4.7	5.9	7.2	8.2	9.3	10.2	11.0
12.5°	0.0	1.1	2.1	3.4	4.7	5.9	7.2	8.3	9.3	10.2	11.1
11.25°	0.0	1.1	2.2	3.4	4.7	6.0	7.2	8.3	9.3	10.2	11.1
10°	0.0	1.1	2.2	3.4	4.7	6.0	7.3	8.3	9.4	10.3	11.2
8.75°	0.0	1.1	2.2	3.5	4.7	6.0	7.3	8.4	9.4	10.3	11.2
7.5°	0.0	1.1	2.2	3.5	4.8	6.0	7.3	8.4	9.4	10.3	11.2
6.25°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.4	10.4	11.2
5°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
3.75°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
2.5°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
1.25°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
0°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.5	9.5	10.4	11.3
-1.25°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
-2.5°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
-3.75°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
-5°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.5	10.4	11.3
-6.25°	0.0	1.1	2.2	3.5	4.8	6.1	7.4	8.4	9.4	10.4	11.2
-7.5°	0.0	1.1	2.2	3.5	4.8	6.0	7.3	8.4	9.4	10.3	11.2
-8.75°	0.0	1.1	2.2	3.5	4.7	6.0	7.3	8.4	9.4	10.3	11.2
-10°	0.0	1.1	2.2	3.4	4.7	6.0	7.3	8.3	9.4	10.3	11.2
-11.25°	0.0	1.1	2.2	3.4	4.7	6.0	7.2	8.3	9.3	10.2	11.1
-12.5°	0.0	1.1	2.1	3.4	4.7	5.9	7.2	8.3	9.3	10.2	11.1
-13.75°	0.0	1.1	2.1	3.4	4.7	5.9	7.2	8.2	9.3	10.2	11.0
-15°	0.0	1.1	2.1	3.4	4.6	5.9	7.1	8.2	9.2	10.1	11.0
-16.25°	0.0	1.1	2.1	3.3	4.6	5.8	7.1	8.2	9.2	10.1	10.9
-17.5°	0.0	1.0	2.1	3.3	4.6	5.8	7.0	8.1	9.1	10.0	10.9
-18.75°	0.0	1.0	2.1	3.3	4.5	5.8	7.0	8.1	9.0	10.0	10.8
-20°	0.0	1.0	2.1	3.3	4.5	5.7	6.9	8.0	9.0	9.9	10.7
-21.25°	0.0	1.0	2.1	3.2	4.4	5.7	6.9	7.9	8.9	9.8	10.7





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	-90°	-88.75°	-87.5°	-86.25°	-85°	-83.75°	-82.5°	-81.25°	-80°	-78.75°	-77.5°
-22.5°	0.0	1.0	2.0	3.2	4.4	5.6	6.8	7.9	8.9	9.8	10.6
-23.75°	0.0	1.0	2.0	3.2	4.4	5.5	6.7	7.8	8.8	9.7	10.5
-25°	0.0	1.0	2.0	3.1	4.3	5.5	6.7	7.8	8.7	9.6	10.4
-26.25°	0.0	1.0	2.0	3.1	4.3	5.4	6.6	7.7	8.6	9.6	10.4
-27.5°	0.0	1.0	2.0	3.1	4.2	5.4	6.5	7.6	8.5	9.5	10.3
-28.75°	0.0	1.0	1.9	3.0	4.2	5.3	6.4	7.5	8.5	9.4	10.2
-30°	0.0	1.0	1.9	3.0	4.1	5.2	6.4	7.5	8.4	9.3	10.1
-31.25°	0.0	0.9	1.9	2.9	4.0	5.2	6.3	7.4	8.3	9.2	10.0
-32.5°	0.0	0.9	1.9	2.9	4.0	5.1	6.2	7.3	8.2	9.1	9.9
-33.75°	0.0	0.9	1.8	2.8	3.9	5.0	6.1	7.2	8.1	8.9	9.8
-35°	0.0	0.9	1.8	2.8	3.9	4.9	6.0	7.0	8.0	8.8	9.7
-36.25°	0.0	0.9	1.8	2.7	3.8	4.8	5.9	6.9	7.9	8.7	9.5
-37.5°	0.0	0.9	1.7	2.7	3.7	4.8	5.8	6.8	7.8	8.6	9.4
-38.75°	0.0	0.9	1.7	2.6	3.7	4.7	5.7	6.7	7.6	8.5	9.3
-40°	0.0	0.8	1.7	2.6	3.6	4.6	5.6	6.6	7.5	8.3	9.1
-41.25°	0.0	0.8	1.7	2.5	3.5	4.5	5.5	6.4	7.4	8.2	9.0
-42.5°	0.0	0.8	1.6	2.5	3.4	4.4	5.3	6.3	7.2	8.0	8.8
-43.75°	0.0	0.8	1.6	2.4	3.4	4.3	5.2	6.2	7.1	7.9	8.7
-45°	0.0	0.8	1.6	2.4	3.3	4.2	5.1	6.0	6.9	7.8	8.5
-46.25°	0.0	0.8	1.5	2.3	3.2	4.1	5.0	5.9	6.8	7.6	8.3
-47.5°	0.0	0.7	1.5	2.2	3.1	4.0	4.9	5.7	6.6	7.5	8.2
-48.75°	0.0	0.7	1.5	2.2	3.0	3.9	4.7	5.6	6.4	7.3	8.0
-50°	0.0	0.7	1.4	2.1	2.9	3.8	4.6	5.4	6.3	7.1	7.8
-51.25°	0.0	0.7	1.4	2.1	2.9	3.7	4.5	5.3	6.1	6.9	7.6
-52.5°	0.0	0.7	1.3	2.0	2.8	3.6	4.3	5.1	5.9	6.7	7.5
-53.75°	0.0	0.7	1.3	2.0	2.7	3.4	4.2	5.0	5.7	6.5	7.2
-55°	0.0	0.6	1.3	1.9	2.6	3.3	4.1	4.8	5.5	6.3	7.0
-56.25°	0.0	0.6	1.2	1.8	2.5	3.2	3.9	4.6	5.4	6.1	6.8
-57.5°	0.0	0.6	1.2	1.8	2.4	3.1	3.8	4.5	5.2	5.9	6.5
-58.75°	0.0	0.6	1.1	1.7	2.3	3.0	3.6	4.3	5.0	5.6	6.3
-60°	0.0	0.5	1.1	1.6	2.2	2.8	3.5	4.1	4.8	5.4	6.1
-61.25°	0.0	0.5	1.1	1.6	2.1	2.7	3.3	4.0	4.6	5.2	5.8
-62.5°	0.0	0.5	1.0	1.5	2.0	2.6	3.2	3.8	4.4	5.0	5.6
-63.75°	0.0	0.5	1.0	1.5	1.9	2.5	3.0	3.6	4.2	4.7	5.3
-65°	0.0	0.5	0.9	1.4	1.9	2.3	2.9	3.4	4.0	4.5	5.1
-66.25°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.3	3.8	4.3	4.8
-67.5°	0.0	0.4	0.8	1.3	1.7	2.1	2.6	3.1	3.6	4.1	4.5
-68.75°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.9	3.4	3.8	4.3
-70°	0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.6	4.0
-71.25°	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.7
-72.5°	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.1	3.5
-73.75°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.5	2.9	3.2
-75°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9
-76.25°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.7
-77.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4



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**CANDELA DISTRIBUTION (continued):**

	-90°	-88.75°	-87.5°	-86.25°	-85°	-83.75°	-82.5°	-81.25°	-80°	-78.75°	-77.5°
-78.75°	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1
-80°	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.9
-81.25°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7
-82.5°	0.0	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4
-83.75°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
-85°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
-86.25°	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5
-88.75°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
87.5°	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0
86.25°	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5
85°	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9
83.75°	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.5
82.5°	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0
81.25°	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6
80°	2.1	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.0	4.2
78.75°	2.4	2.6	2.9	3.1	3.3	3.6	3.8	4.1	4.3	4.5	4.7
77.5°	2.7	2.9	3.2	3.5	3.7	4.0	4.3	4.5	4.8	5.1	5.3
76.25°	3.0	3.3	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.6	5.9
75°	3.3	3.6	3.9	4.2	4.6	4.9	5.2	5.5	5.8	6.1	6.4
73.75°	3.6	3.9	4.3	4.6	5.0	5.3	5.7	6.0	6.3	6.7	7.0
72.5°	3.9	4.2	4.6	5.0	5.4	5.7	6.1	6.5	6.8	7.2	7.5
71.25°	4.2	4.6	5.0	5.4	5.8	6.2	6.6	6.9	7.3	7.7	8.0
70°	4.4	4.9	5.3	5.7	6.2	6.6	7.0	7.4	7.8	8.1	8.4
68.75°	4.7	5.2	5.7	6.1	6.6	7.0	7.4	7.8	8.2	8.5	8.8
67.5°	5.0	5.5	6.0	6.5	6.9	7.4	7.8	8.2	8.5	8.9	9.3
66.25°	5.3	5.8	6.3	6.8	7.3	7.8	8.2	8.5	8.9	9.3	9.7
65°	5.6	6.1	6.7	7.2	7.7	8.1	8.5	8.9	9.3	9.7	10.1
63.75°	5.9	6.4	7.0	7.5	8.0	8.4	8.8	9.3	9.7	10.1	10.4
62.5°	6.2	6.7	7.3	7.8	8.3	8.7	9.2	9.6	10.0	10.4	10.8
61.25°	6.4	7.0	7.6	8.1	8.6	9.1	9.5	9.9	10.3	10.7	11.1
60°	6.7	7.3	7.9	8.4	8.9	9.4	9.8	10.2	10.7	11.1	11.5
58.75°	7.0	7.6	8.1	8.6	9.2	9.7	10.1	10.5	11.0	11.4	11.8
57.5°	7.2	7.8	8.4	8.9	9.5	9.9	10.4	10.8	11.3	11.7	12.1
56.25°	7.5	8.0	8.6	9.2	9.7	10.2	10.7	11.1	11.6	12.0	12.5
55°	7.7	8.3	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.3	12.8
53.75°	7.9	8.5	9.1	9.7	10.2	10.7	11.2	11.7	12.2	12.6	13.1
52.5°	8.1	8.7	9.3	9.9	10.4	11.0	11.5	12.0	12.5	12.9	13.4
51.25°	8.3	8.9	9.6	10.1	10.7	11.2	11.7	12.2	12.7	13.2	13.7
50°	8.5	9.1	9.8	10.3	10.9	11.4	12.0	12.5	13.0	13.5	14.0
48.75°	8.7	9.4	10.0	10.5	11.1	11.7	12.2	12.7	13.3	13.8	14.3
47.5°	8.9	9.6	10.1	10.7	11.3	11.9	12.4	13.0	13.5	14.1	14.6
46.25°	9.0	9.7	10.3	10.9	11.5	12.1	12.7	13.2	13.8	14.4	15.1
45°	9.2	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.6	15.7
43.75°	9.4	10.1	10.7	11.3	11.9	12.5	13.1	13.7	14.3	15.1	16.3
42.5°	9.6	10.2	10.9	11.5	12.1	12.7	13.3	13.9	14.5	15.6	16.8
41.25°	9.7	10.4	11.0	11.7	12.3	12.9	13.6	14.2	14.9	16.1	17.4
40°	9.9	10.5	11.2	11.9	12.5	13.1	13.8	14.4	15.4	16.6	17.9
38.75°	10.0	10.7	11.4	12.0	12.7	13.3	14.0	14.6	15.8	17.1	18.4
37.5°	10.1	10.8	11.5	12.2	12.8	13.5	14.2	14.9	16.3	17.6	18.9
36.25°	10.3	11.0	11.7	12.3	13.0	13.7	14.4	15.4	16.7	18.1	19.3
35°	10.4	11.1	11.8	12.5	13.2	13.9	14.5	15.8	17.2	18.5	19.7



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**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
33.75°	10.5	11.2	11.9	12.6	13.3	14.0	14.8	16.2	17.6	18.9	20.1
32.5°	10.6	11.4	12.1	12.8	13.5	14.2	15.1	16.6	18.0	19.3	20.5
31.25°	10.7	11.5	12.2	12.9	13.6	14.4	15.5	16.9	18.4	19.6	20.9
30°	10.9	11.6	12.3	13.1	13.8	14.5	15.8	17.3	18.7	20.0	21.2
28.75°	11.0	11.7	12.5	13.2	13.9	14.7	16.1	17.6	19.0	20.3	21.7
27.5°	11.1	11.8	12.6	13.3	14.1	14.9	16.5	18.0	19.3	20.6	22.1
26.25°	11.2	11.9	12.7	13.4	14.2	15.2	16.8	18.3	19.6	20.9	22.6
25°	11.3	12.0	12.8	13.6	14.3	15.5	17.0	18.6	19.9	21.2	23.0
23.75°	11.3	12.1	12.9	13.7	14.4	15.7	17.3	18.8	20.2	21.6	23.4
22.5°	11.4	12.2	13.0	13.8	14.5	16.0	17.6	19.0	20.4	22.0	23.7
21.25°	11.5	12.3	13.1	13.9	14.7	16.2	17.8	19.3	20.7	22.3	24.1
20°	11.6	12.4	13.2	14.0	14.8	16.4	18.1	19.5	20.9	22.6	24.4
18.75°	11.6	12.4	13.2	14.0	15.0	16.7	18.3	19.7	21.1	22.9	24.7
17.5°	11.7	12.5	13.3	14.1	15.2	16.9	18.5	19.9	21.3	23.2	25.0
16.25°	11.8	12.6	13.4	14.2	15.4	17.0	18.6	20.1	21.6	23.4	25.3
15°	11.8	12.6	13.5	14.3	15.5	17.2	18.8	20.2	21.8	23.7	25.4
13.75°	11.9	12.7	13.5	14.3	15.7	17.4	18.9	20.4	22.0	23.9	25.6
12.5°	11.9	12.8	13.6	14.4	15.8	17.5	19.1	20.5	22.2	24.1	25.8
11.25°	12.0	12.8	13.6	14.5	15.9	17.6	19.2	20.7	22.4	24.3	26.0
10°	12.0	12.8	13.7	14.5	16.0	17.8	19.3	20.8	22.6	24.5	26.1
8.75°	12.0	12.9	13.7	14.6	16.1	17.9	19.4	20.9	22.7	24.6	26.2
7.5°	12.1	12.9	13.8	14.6	16.2	18.0	19.5	21.0	22.8	24.7	26.3
6.25°	12.1	12.9	13.8	14.6	16.3	18.0	19.5	21.0	22.9	24.9	26.4
5°	12.1	13.0	13.8	14.7	16.3	18.1	19.6	21.1	23.0	24.9	26.5
3.75°	12.1	13.0	13.8	14.7	16.4	18.1	19.6	21.1	23.1	25.0	26.5
2.5°	12.1	13.0	13.8	14.7	16.4	18.2	19.7	21.2	23.1	25.1	26.6
1.25°	12.1	13.0	13.8	14.7	16.4	18.2	19.7	21.2	23.1	25.1	26.6
0°	12.2	13.0	13.9	14.7	16.5	18.2	19.7	21.2	23.2	25.1	26.6
-1.25°	12.1	13.0	13.8	14.7	16.4	18.2	19.7	21.2	23.1	25.1	26.6
-2.5°	12.1	13.0	13.8	14.7	16.4	18.2	19.7	21.2	23.1	25.1	26.6
-3.75°	12.1	13.0	13.8	14.7	16.4	18.1	19.6	21.1	23.1	25.0	26.5
-5°	12.1	13.0	13.8	14.7	16.3	18.1	19.6	21.1	23.0	24.9	26.5
-6.25°	12.1	12.9	13.8	14.6	16.3	18.0	19.5	21.0	22.9	24.9	26.4
-7.5°	12.1	12.9	13.8	14.6	16.2	18.0	19.5	21.0	22.8	24.7	26.3
-8.75°	12.0	12.9	13.7	14.6	16.1	17.9	19.4	20.9	22.7	24.6	26.2
-10°	12.0	12.8	13.7	14.5	16.0	17.8	19.3	20.8	22.6	24.5	26.1
-11.25°	12.0	12.8	13.6	14.5	15.9	17.6	19.2	20.7	22.4	24.3	26.0
-12.5°	11.9	12.8	13.6	14.4	15.8	17.5	19.1	20.5	22.2	24.1	25.8
-13.75°	11.9	12.7	13.5	14.3	15.7	17.4	18.9	20.4	22.0	23.9	25.6
-15°	11.8	12.6	13.5	14.3	15.5	17.2	18.8	20.2	21.8	23.7	25.4
-16.25°	11.8	12.6	13.4	14.2	15.4	17.0	18.6	20.1	21.6	23.4	25.3
-17.5°	11.7	12.5	13.3	14.1	15.2	16.9	18.5	19.9	21.3	23.2	25.0
-18.75°	11.6	12.4	13.2	14.0	15.0	16.7	18.3	19.7	21.1	22.9	24.7
-20°	11.6	12.4	13.2	14.0	14.8	16.4	18.1	19.5	20.9	22.6	24.4
-21.25°	11.5	12.3	13.1	13.9	14.7	16.2	17.8	19.3	20.7	22.3	24.1



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**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
-22.5°	11.4	12.2	13.0	13.8	14.5	16.0	17.6	19.0	20.4	22.0	23.7
-23.75°	11.3	12.1	12.9	13.7	14.4	15.7	17.3	18.8	20.2	21.6	23.4
-25°	11.3	12.0	12.8	13.6	14.3	15.5	17.0	18.6	19.9	21.2	23.0
-26.25°	11.2	11.9	12.7	13.4	14.2	15.2	16.8	18.3	19.6	20.9	22.6
-27.5°	11.1	11.8	12.6	13.3	14.1	14.9	16.5	18.0	19.3	20.6	22.1
-28.75°	11.0	11.7	12.5	13.2	13.9	14.7	16.1	17.6	19.0	20.3	21.7
-30°	10.9	11.6	12.3	13.1	13.8	14.5	15.8	17.3	18.7	20.0	21.2
-31.25°	10.7	11.5	12.2	12.9	13.6	14.4	15.5	16.9	18.4	19.6	20.9
-32.5°	10.6	11.4	12.1	12.8	13.5	14.2	15.1	16.6	18.0	19.3	20.5
-33.75°	10.5	11.2	11.9	12.6	13.3	14.0	14.8	16.2	17.6	18.9	20.1
-35°	10.4	11.1	11.8	12.5	13.2	13.9	14.5	15.8	17.2	18.5	19.7
-36.25°	10.3	11.0	11.7	12.3	13.0	13.7	14.4	15.4	16.7	18.1	19.3
-37.5°	10.1	10.8	11.5	12.2	12.8	13.5	14.2	14.9	16.3	17.6	18.9
-38.75°	10.0	10.7	11.4	12.0	12.7	13.3	14.0	14.6	15.8	17.1	18.4
-40°	9.9	10.5	11.2	11.9	12.5	13.1	13.8	14.4	15.4	16.6	17.9
-41.25°	9.7	10.4	11.0	11.7	12.3	12.9	13.6	14.2	14.9	16.1	17.4
-42.5°	9.6	10.2	10.9	11.5	12.1	12.7	13.3	13.9	14.5	15.6	16.8
-43.75°	9.4	10.1	10.7	11.3	11.9	12.5	13.1	13.7	14.3	15.1	16.3
-45°	9.2	9.9	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.6	15.7
-46.25°	9.0	9.7	10.3	10.9	11.5	12.1	12.7	13.2	13.8	14.4	15.1
-47.5°	8.9	9.6	10.1	10.7	11.3	11.9	12.4	13.0	13.5	14.1	14.6
-48.75°	8.7	9.4	10.0	10.5	11.1	11.7	12.2	12.7	13.3	13.8	14.3
-50°	8.5	9.1	9.8	10.3	10.9	11.4	12.0	12.5	13.0	13.5	14.0
-51.25°	8.3	8.9	9.6	10.1	10.7	11.2	11.7	12.2	12.7	13.2	13.7
-52.5°	8.1	8.7	9.3	9.9	10.4	11.0	11.5	12.0	12.5	12.9	13.4
-53.75°	7.9	8.5	9.1	9.7	10.2	10.7	11.2	11.7	12.2	12.6	13.1
-55°	7.7	8.3	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.3	12.8
-56.25°	7.5	8.0	8.6	9.2	9.7	10.2	10.7	11.1	11.6	12.0	12.5
-57.5°	7.2	7.8	8.4	8.9	9.5	9.9	10.4	10.8	11.3	11.7	12.1
-58.75°	7.0	7.6	8.1	8.6	9.2	9.7	10.1	10.5	11.0	11.4	11.8
-60°	6.7	7.3	7.9	8.4	8.9	9.4	9.8	10.2	10.7	11.1	11.5
-61.25°	6.4	7.0	7.6	8.1	8.6	9.1	9.5	9.9	10.3	10.7	11.1
-62.5°	6.2	6.7	7.3	7.8	8.3	8.7	9.2	9.6	10.0	10.4	10.8
-63.75°	5.9	6.4	7.0	7.5	8.0	8.4	8.8	9.3	9.7	10.1	10.4
-65°	5.6	6.1	6.7	7.2	7.7	8.1	8.5	8.9	9.3	9.7	10.1
-66.25°	5.3	5.8	6.3	6.8	7.3	7.8	8.2	8.5	8.9	9.3	9.7
-67.5°	5.0	5.5	6.0	6.5	6.9	7.4	7.8	8.2	8.5	8.9	9.3
-68.75°	4.7	5.2	5.7	6.1	6.6	7.0	7.4	7.8	8.2	8.5	8.8
-70°	4.4	4.9	5.3	5.7	6.2	6.6	7.0	7.4	7.8	8.1	8.4
-71.25°	4.2	4.6	5.0	5.4	5.8	6.2	6.6	6.9	7.3	7.7	8.0
-72.5°	3.9	4.2	4.6	5.0	5.4	5.7	6.1	6.5	6.8	7.2	7.5
-73.75°	3.6	3.9	4.3	4.6	5.0	5.3	5.7	6.0	6.3	6.7	7.0
-75°	3.3	3.6	3.9	4.2	4.6	4.9	5.2	5.5	5.8	6.1	6.4
-76.25°	3.0	3.3	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.6	5.9
-77.5°	2.7	2.9	3.2	3.5	3.7	4.0	4.3	4.5	4.8	5.1	5.3



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
-78.75°	2.4	2.6	2.9	3.1	3.3	3.6	3.8	4.1	4.3	4.5	4.7
-80°	2.1	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.0	4.2
-81.25°	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6
-82.5°	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0
-83.75°	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.5
-85°	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9
-86.25°	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5
-87.5°	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0
-88.75°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-61.25°	-60°	-58.75°	-57.5°	-56.25°	-55°	-53.75°	-52.5°	-51.25°	-50°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
87.5°	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4
86.25°	1.5	1.6	1.6	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1
85°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9
83.75°	2.6	2.7	2.8	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.8
82.5°	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.3	4.5	4.6
81.25°	3.8	4.0	4.1	4.3	4.5	4.6	4.8	5.0	5.1	5.3	5.4
80°	4.4	4.6	4.8	5.0	5.2	5.4	5.5	5.7	5.9	6.1	6.3
78.75°	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.7	6.9	7.1
77.5°	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.2	7.5	7.6	7.8
76.25°	6.2	6.4	6.7	7.0	7.2	7.5	7.7	7.9	8.1	8.3	8.5
75°	6.7	7.0	7.3	7.6	7.8	8.0	8.3	8.5	8.7	8.9	9.1
73.75°	7.3	7.6	7.9	8.1	8.4	8.6	8.9	9.1	9.3	9.6	9.8
72.5°	7.8	8.1	8.4	8.6	8.9	9.2	9.4	9.7	9.9	10.1	10.3
71.25°	8.3	8.6	8.9	9.2	9.5	9.7	9.9	10.2	10.4	10.7	10.9
70°	8.7	9.1	9.4	9.7	9.9	10.2	10.4	10.7	11.0	11.2	11.4
68.75°	9.2	9.5	9.8	10.1	10.4	10.7	10.9	11.2	11.5	11.7	12.0
67.5°	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.2	12.5
66.25°	10.0	10.3	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.7	13.0
65°	10.4	10.7	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
63.75°	10.8	11.1	11.5	11.8	12.1	12.5	12.8	13.1	13.4	13.7	14.0
62.5°	11.2	11.5	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.5
61.25°	11.5	11.9	12.3	12.6	13.0	13.3	13.7	14.0	14.4	14.7	15.4
60°	11.9	12.3	12.6	13.0	13.4	13.8	14.1	14.5	15.0	15.7	16.4
58.75°	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.2	16.0	16.7	17.5
57.5°	12.6	13.0	13.4	13.8	14.2	14.6	15.3	16.1	16.9	17.7	18.4
56.25°	12.9	13.3	13.8	14.2	14.6	15.4	16.2	17.1	17.9	18.6	19.3
55°	13.2	13.7	14.1	14.6	15.3	16.2	17.1	18.0	18.7	19.4	20.2
53.75°	13.6	14.0	14.5	15.2	16.1	17.1	18.0	18.8	19.5	20.3	21.0
52.5°	13.9	14.4	15.0	16.0	16.9	17.9	18.7	19.5	20.3	21.1	22.0
51.25°	14.2	14.7	15.7	16.7	17.7	18.6	19.4	20.3	21.1	22.1	23.1
50°	14.5	15.4	16.4	17.5	18.4	19.3	20.2	21.0	22.0	23.1	24.2
48.75°	15.0	16.1	17.1	18.2	19.1	20.0	20.9	21.9	23.0	24.1	25.2
47.5°	15.6	16.7	17.8	18.8	19.7	20.7	21.7	22.8	24.0	25.1	26.0
46.25°	16.3	17.4	18.5	19.4	20.4	21.3	22.6	23.8	24.9	25.9	26.8
45°	16.9	18.0	19.0	20.0	21.0	22.2	23.4	24.7	25.7	26.6	27.5
43.75°	17.5	18.6	19.6	20.6	21.7	23.0	24.3	25.4	26.4	27.4	28.3
42.5°	18.1	19.1	20.2	21.2	22.5	23.8	25.1	26.1	27.1	28.1	28.9
41.25°	18.6	19.6	20.7	21.9	23.3	24.6	25.8	26.8	27.8	28.7	29.6
40°	19.1	20.1	21.2	22.6	24.0	25.3	26.4	27.4	28.4	29.3	30.2
38.75°	19.5	20.6	21.9	23.3	24.7	25.9	27.0	28.1	29.0	29.9	30.8
37.5°	20.0	21.1	22.6	24.0	25.4	26.5	27.6	28.6	29.5	30.5	31.2
36.25°	20.4	21.7	23.2	24.7	25.9	27.0	28.2	29.1	30.1	30.9	31.6
35°	20.9	22.3	23.8	25.3	26.4	27.6	28.6	29.6	30.6	31.3	32.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-61.25°	-60°	-58.75°	-57.5°	-56.25°	-55°	-53.75°	-52.5°	-51.25°	-50°
33.75°	21.3	22.9	24.4	25.8	26.9	28.1	29.1	30.1	31.0	31.7	32.4
32.5°	21.9	23.4	25.0	26.2	27.4	28.6	29.6	30.6	31.3	32.0	32.8
31.25°	22.4	24.0	25.5	26.7	27.9	29.0	30.0	31.0	31.7	32.4	33.2
30°	22.9	24.5	25.9	27.1	28.3	29.4	30.5	31.3	32.0	32.8	33.6
28.75°	23.4	25.0	26.3	27.6	28.7	29.8	30.8	31.6	32.3	33.2	34.0
27.5°	23.8	25.4	26.7	28.0	29.1	30.2	31.1	31.9	32.7	33.5	34.4
26.25°	24.3	25.8	27.1	28.3	29.5	30.6	31.4	32.2	33.0	33.9	34.7
25°	24.7	26.1	27.4	28.7	29.8	30.9	31.7	32.4	33.3	34.2	35.1
23.75°	25.1	26.4	27.8	29.0	30.1	31.1	31.9	32.7	33.6	34.6	35.3
22.5°	25.4	26.8	28.1	29.3	30.5	31.3	32.1	33.0	33.9	34.8	35.6
21.25°	25.7	27.1	28.4	29.6	30.7	31.6	32.4	33.3	34.2	35.1	35.9
20°	26.0	27.3	28.6	29.8	30.9	31.8	32.6	33.6	34.5	35.3	36.2
18.75°	26.2	27.6	28.9	30.1	31.1	32.0	32.8	33.8	34.7	35.6	36.4
17.5°	26.5	27.9	29.1	30.3	31.3	32.1	33.1	34.0	35.0	35.8	36.6
16.25°	26.7	28.1	29.3	30.6	31.5	32.3	33.3	34.3	35.1	36.0	36.8
15°	26.9	28.3	29.5	30.8	31.6	32.5	33.5	34.5	35.3	36.2	37.0
13.75°	27.1	28.5	29.7	30.9	31.8	32.6	33.6	34.6	35.5	36.4	37.2
12.5°	27.3	28.6	29.9	31.0	31.9	32.8	33.8	34.8	35.7	36.5	37.3
11.25°	27.4	28.8	30.0	31.1	32.0	32.9	34.0	34.9	35.8	36.7	37.5
10°	27.6	28.9	30.2	31.2	32.1	33.1	34.1	35.0	35.9	36.8	37.6
8.75°	27.7	29.0	30.3	31.3	32.2	33.2	34.2	35.1	36.0	36.9	37.7
7.5°	27.8	29.1	30.4	31.4	32.3	33.3	34.3	35.2	36.1	37.0	37.8
6.25°	27.9	29.2	30.5	31.5	32.3	33.4	34.4	35.3	36.2	37.1	37.9
5°	28.0	29.3	30.6	31.5	32.4	33.4	34.5	35.4	36.3	37.1	38.0
3.75°	28.0	29.3	30.6	31.5	32.4	33.5	34.5	35.4	36.3	37.2	38.0
2.5°	28.1	29.4	30.7	31.6	32.5	33.5	34.6	35.5	36.4	37.2	38.1
1.25°	28.1	29.4	30.7	31.6	32.5	33.5	34.6	35.5	36.4	37.2	38.1
0°	28.1	29.4	30.7	31.6	32.5	33.6	34.6	35.5	36.4	37.3	38.1
-1.25°	28.1	29.4	30.7	31.6	32.5	33.5	34.6	35.5	36.4	37.2	38.1
-2.5°	28.1	29.4	30.7	31.6	32.5	33.5	34.6	35.5	36.4	37.2	38.1
-3.75°	28.0	29.3	30.6	31.5	32.4	33.5	34.5	35.4	36.3	37.2	38.0
-5°	28.0	29.3	30.6	31.5	32.4	33.4	34.5	35.4	36.3	37.1	38.0
-6.25°	27.9	29.2	30.5	31.5	32.3	33.4	34.4	35.3	36.2	37.1	37.9
-7.5°	27.8	29.1	30.4	31.4	32.3	33.3	34.3	35.2	36.1	37.0	37.8
-8.75°	27.7	29.0	30.3	31.3	32.2	33.2	34.2	35.1	36.0	36.9	37.7
-10°	27.6	28.9	30.2	31.2	32.1	33.1	34.1	35.0	35.9	36.8	37.6
-11.25°	27.4	28.8	30.0	31.1	32.0	32.9	34.0	34.9	35.8	36.7	37.5
-12.5°	27.3	28.6	29.9	31.0	31.9	32.8	33.8	34.8	35.7	36.5	37.3
-13.75°	27.1	28.5	29.7	30.9	31.8	32.6	33.6	34.6	35.5	36.4	37.2
-15°	26.9	28.3	29.5	30.8	31.6	32.5	33.5	34.5	35.3	36.2	37.0
-16.25°	26.7	28.1	29.3	30.6	31.5	32.3	33.3	34.3	35.1	36.0	36.8
-17.5°	26.5	27.9	29.1	30.3	31.3	32.1	33.1	34.0	35.0	35.8	36.6
-18.75°	26.2	27.6	28.9	30.1	31.1	32.0	32.8	33.8	34.7	35.6	36.4
-20°	26.0	27.3	28.6	29.8	30.9	31.8	32.6	33.6	34.5	35.3	36.2
-21.25°	25.7	27.1	28.4	29.6	30.7	31.6	32.4	33.3	34.2	35.1	35.9





REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-61.25°	-60°	-58.75°	-57.5°	-56.25°	-55°	-53.75°	-52.5°	-51.25°	-50°
-22.5°	25.4	26.8	28.1	29.3	30.5	31.3	32.1	33.0	33.9	34.8	35.6
-23.75°	25.1	26.4	27.8	29.0	30.1	31.1	31.9	32.7	33.6	34.6	35.3
-25°	24.7	26.1	27.4	28.7	29.8	30.9	31.7	32.4	33.3	34.2	35.1
-26.25°	24.3	25.8	27.1	28.3	29.5	30.6	31.4	32.2	33.0	33.9	34.7
-27.5°	23.8	25.4	26.7	28.0	29.1	30.2	31.1	31.9	32.7	33.5	34.4
-28.75°	23.4	25.0	26.3	27.6	28.7	29.8	30.8	31.6	32.3	33.2	34.0
-30°	22.9	24.5	25.9	27.1	28.3	29.4	30.5	31.3	32.0	32.8	33.6
-31.25°	22.4	24.0	25.5	26.7	27.9	29.0	30.0	31.0	31.7	32.4	33.2
-32.5°	21.9	23.4	25.0	26.2	27.4	28.6	29.6	30.6	31.3	32.0	32.8
-33.75°	21.3	22.9	24.4	25.8	26.9	28.1	29.1	30.1	31.0	31.7	32.4
-35°	20.9	22.3	23.8	25.3	26.4	27.6	28.6	29.6	30.6	31.3	32.0
-36.25°	20.4	21.7	23.2	24.7	25.9	27.0	28.2	29.1	30.1	30.9	31.6
-37.5°	20.0	21.1	22.6	24.0	25.4	26.5	27.6	28.6	29.5	30.5	31.2
-38.75°	19.5	20.6	21.9	23.3	24.7	25.9	27.0	28.1	29.0	29.9	30.8
-40°	19.1	20.1	21.2	22.6	24.0	25.3	26.4	27.4	28.4	29.3	30.2
-41.25°	18.6	19.6	20.7	21.9	23.3	24.6	25.8	26.8	27.8	28.7	29.6
-42.5°	18.1	19.1	20.2	21.2	22.5	23.8	25.1	26.1	27.1	28.1	28.9
-43.75°	17.5	18.6	19.6	20.6	21.7	23.0	24.3	25.4	26.4	27.4	28.3
-45°	16.9	18.0	19.0	20.0	21.0	22.2	23.4	24.7	25.7	26.6	27.5
-46.25°	16.3	17.4	18.5	19.4	20.4	21.3	22.6	23.8	24.9	25.9	26.8
-47.5°	15.6	16.7	17.8	18.8	19.7	20.7	21.7	22.8	24.0	25.1	26.0
-48.75°	15.0	16.1	17.1	18.2	19.1	20.0	20.9	21.9	23.0	24.1	25.2
-50°	14.5	15.4	16.4	17.5	18.4	19.3	20.2	21.0	22.0	23.1	24.2
-51.25°	14.2	14.7	15.7	16.7	17.7	18.6	19.4	20.3	21.1	22.1	23.1
-52.5°	13.9	14.4	15.0	16.0	16.9	17.9	18.7	19.5	20.3	21.1	22.0
-53.75°	13.6	14.0	14.5	15.2	16.1	17.1	18.0	18.8	19.5	20.3	21.0
-55°	13.2	13.7	14.1	14.6	15.3	16.2	17.1	18.0	18.7	19.4	20.2
-56.25°	12.9	13.3	13.8	14.2	14.6	15.4	16.2	17.1	17.9	18.6	19.3
-57.5°	12.6	13.0	13.4	13.8	14.2	14.6	15.3	16.1	16.9	17.7	18.4
-58.75°	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.2	16.0	16.7	17.5
-60°	11.9	12.3	12.6	13.0	13.4	13.8	14.1	14.5	15.0	15.7	16.4
-61.25°	11.5	11.9	12.3	12.6	13.0	13.3	13.7	14.0	14.4	14.7	15.4
-62.5°	11.2	11.5	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.5
-63.75°	10.8	11.1	11.5	11.8	12.1	12.5	12.8	13.1	13.4	13.7	14.0
-65°	10.4	10.7	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
-66.25°	10.0	10.3	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.7	13.0
-67.5°	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.2	12.5
-68.75°	9.2	9.5	9.8	10.1	10.4	10.7	10.9	11.2	11.5	11.7	12.0
-70°	8.7	9.1	9.4	9.7	9.9	10.2	10.4	10.7	11.0	11.2	11.4
-71.25°	8.3	8.6	8.9	9.2	9.5	9.7	9.9	10.2	10.4	10.7	10.9
-72.5°	7.8	8.1	8.4	8.6	8.9	9.2	9.4	9.7	9.9	10.1	10.3
-73.75°	7.3	7.6	7.9	8.1	8.4	8.6	8.9	9.1	9.3	9.6	9.8
-75°	6.7	7.0	7.3	7.6	7.8	8.0	8.3	8.5	8.7	8.9	9.1
-76.25°	6.2	6.4	6.7	7.0	7.2	7.5	7.7	7.9	8.1	8.3	8.5
-77.5°	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.2	7.5	7.6	7.8



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-61.25°	-60°	-58.75°	-57.5°	-56.25°	-55°	-53.75°	-52.5°	-51.25°	-50°
-78.75°	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.7	6.9	7.1
-80°	4.4	4.6	4.8	5.0	5.2	5.4	5.5	5.7	5.9	6.1	6.3
-81.25°	3.8	4.0	4.1	4.3	4.5	4.6	4.8	5.0	5.1	5.3	5.4
-82.5°	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.3	4.5	4.6
-83.75°	2.6	2.7	2.8	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.8
-85°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9
-86.25°	1.5	1.6	1.6	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1
-87.5°	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4
-88.75°	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-48.75°	-47.5°	-46.25°	-45°	-43.75°	-42.5°	-41.25°	-40°	-38.75°	-37.5°	-36.25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9
87.5°	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8
86.25°	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7
85°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.7	3.8
83.75°	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8
82.5°	4.7	4.9	5.0	5.1	5.2	5.3	5.5	5.6	5.7	5.8	5.9
81.25°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.8	6.9
80°	6.4	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.8	7.9
78.75°	7.3	7.5	7.6	7.8	7.9	8.0	8.2	8.3	8.5	8.6	8.7
77.5°	8.0	8.2	8.3	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.5
76.25°	8.7	8.9	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.3
75°	9.4	9.6	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	11.0
73.75°	10.0	10.1	10.3	10.5	10.7	10.9	11.0	11.2	11.4	11.5	11.7
72.5°	10.5	10.7	10.9	11.1	11.3	11.5	11.7	11.9	12.0	12.2	12.3
71.25°	11.1	11.3	11.5	11.7	11.9	12.1	12.3	12.5	12.7	12.8	13.0
70°	11.7	11.9	12.1	12.3	12.5	12.7	12.9	13.1	13.3	13.5	13.7
68.75°	12.2	12.4	12.7	12.9	13.1	13.3	13.6	13.8	14.0	14.2	14.4
67.5°	12.7	13.0	13.2	13.5	13.7	13.9	14.2	14.4	14.6	14.9	15.4
66.25°	13.3	13.5	13.8	14.1	14.3	14.5	14.9	15.4	15.8	16.3	16.7
65°	13.8	14.1	14.4	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
63.75°	14.3	14.6	15.1	15.7	16.3	16.8	17.4	17.9	18.4	18.9	19.3
62.5°	15.0	15.6	16.3	16.9	17.5	18.1	18.6	19.1	19.5	20.0	20.4
61.25°	16.1	16.7	17.4	18.0	18.6	19.1	19.6	20.1	20.6	21.1	21.7
60°	17.1	17.8	18.5	19.0	19.6	20.2	20.7	21.2	21.9	22.6	23.2
58.75°	18.2	18.8	19.4	20.0	20.6	21.2	21.9	22.6	23.3	24.0	24.7
57.5°	19.1	19.7	20.4	21.0	21.7	22.5	23.3	24.0	24.7	25.4	25.9
56.25°	20.0	20.7	21.3	22.2	23.0	23.8	24.6	25.3	25.9	26.5	27.0
55°	20.9	21.7	22.6	23.4	24.3	25.1	25.8	26.4	27.0	27.6	28.2
53.75°	21.9	22.8	23.8	24.7	25.4	26.1	26.8	27.4	28.1	28.6	29.1
52.5°	23.0	24.0	24.9	25.7	26.4	27.1	27.8	28.4	29.0	29.5	30.1
51.25°	24.1	25.1	25.9	26.6	27.4	28.1	28.7	29.3	29.9	30.5	30.9
50°	25.2	26.0	26.8	27.5	28.3	28.9	29.6	30.2	30.8	31.2	31.6
48.75°	26.0	26.8	27.7	28.4	29.1	29.7	30.4	30.9	31.4	31.8	32.2
47.5°	26.8	27.7	28.5	29.2	29.9	30.6	31.1	31.5	32.0	32.4	32.9
46.25°	27.7	28.5	29.2	29.9	30.7	31.2	31.7	32.1	32.6	33.1	33.7
45°	28.4	29.2	29.9	30.7	31.2	31.7	32.2	32.8	33.3	33.9	34.4
43.75°	29.1	29.9	30.7	31.2	31.7	32.3	32.8	33.4	34.0	34.6	35.1
42.5°	29.7	30.6	31.2	31.7	32.3	32.9	33.5	34.1	34.7	35.2	35.7
41.25°	30.4	31.1	31.7	32.2	32.8	33.5	34.1	34.7	35.2	35.8	36.3
40°	30.9	31.5	32.1	32.8	33.4	34.1	34.7	35.3	35.8	36.3	36.8
38.75°	31.4	32.0	32.6	33.3	34.0	34.7	35.2	35.8	36.4	36.9	37.4
37.5°	31.8	32.4	33.1	33.9	34.6	35.2	35.8	36.3	36.9	37.4	37.9
36.25°	32.2	32.9	33.7	34.4	35.1	35.7	36.3	36.8	37.4	37.9	38.9
35°	32.7	33.4	34.2	34.9	35.5	36.1	36.8	37.3	37.9	38.8	39.9



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-48.75°	-47.5°	-46.25°	-45°	-43.75°	-42.5°	-41.25°	-40°	-38.75°	-37.5°	-36.25°
33.75°	33.1	33.9	34.7	35.3	36.0	36.6	37.2	37.8	38.7	39.8	41.0
32.5°	33.6	34.4	35.1	35.8	36.4	37.0	37.7	38.4	39.6	40.8	42.9
31.25°	34.0	34.8	35.5	36.2	36.8	37.5	38.1	39.3	40.6	42.3	45.8
30°	34.4	35.2	35.9	36.6	37.2	37.9	39.0	40.2	41.5	45.1	48.7
28.75°	34.8	35.6	36.3	37.0	37.6	38.5	39.8	41.1	44.0	47.8	51.5
27.5°	35.2	35.9	36.6	37.3	38.0	39.2	40.6	42.7	46.6	50.4	56.1
26.25°	35.5	36.3	37.0	37.7	38.6	40.0	41.4	45.1	49.0	54.0	60.7
25°	35.8	36.6	37.3	38.0	39.3	40.7	43.3	47.4	51.4	58.2	65.1
23.75°	36.1	36.9	37.6	38.6	40.0	41.4	45.4	49.6	55.3	62.3	69.3
22.5°	36.4	37.2	37.9	39.2	40.6	43.2	47.5	51.9	59.1	66.3	73.6
21.25°	36.7	37.4	38.3	39.8	41.3	45.1	49.4	55.4	62.7	70.1	77.8
20°	36.9	37.7	38.8	40.3	42.5	46.9	51.3	58.7	66.2	73.9	81.7
18.75°	37.2	37.9	39.3	40.9	44.1	48.6	54.2	61.9	69.6	77.5	85.4
17.5°	37.4	38.3	39.8	41.4	45.7	50.2	57.1	64.9	72.8	80.9	89.6
16.25°	37.6	38.7	40.3	42.5	47.1	51.9	59.8	67.7	75.9	84.2	93.9
15°	37.8	39.1	40.7	43.8	48.5	54.3	62.4	70.4	78.8	87.2	97.9
13.75°	38.0	39.5	41.1	45.0	49.7	56.6	64.7	73.0	81.5	90.8	101.7
12.5°	38.2	39.8	41.5	46.1	50.9	58.7	66.9	75.4	84.0	94.2	105.1
11.25°	38.5	40.1	42.3	47.1	52.3	60.6	68.9	77.6	86.3	97.2	108.3
10°	38.8	40.4	43.2	48.0	53.9	62.3	70.7	79.5	88.7	99.9	111.1
8.75°	39.0	40.7	44.0	48.8	55.4	63.8	72.4	81.3	91.0	102.3	113.7
7.5°	39.2	40.9	44.6	49.5	56.6	65.1	73.9	82.8	93.0	104.5	115.9
6.25°	39.4	41.1	45.2	50.1	57.7	66.2	75.1	84.1	94.7	106.3	117.7
5°	39.5	41.2	45.7	50.6	58.6	67.2	76.1	85.1	96.2	107.7	119.3
3.75°	39.7	41.3	46.0	51.0	59.3	67.9	76.9	85.9	97.3	108.9	120.5
2.5°	39.7	41.4	46.3	51.3	59.8	68.4	77.4	86.5	98.1	109.7	121.4
1.25°	39.8	41.5	46.4	51.4	60.1	68.7	77.8	86.9	98.5	110.2	121.9
0°	39.8	41.5	46.5	51.5	60.2	68.8	77.9	87.0	98.7	110.4	122.1
-1.25°	39.8	41.5	46.4	51.4	60.1	68.7	77.8	86.9	98.5	110.2	121.9
-2.5°	39.7	41.4	46.3	51.3	59.8	68.4	77.4	86.5	98.1	109.7	121.4
-3.75°	39.7	41.3	46.0	51.0	59.3	67.9	76.9	85.9	97.3	108.9	120.5
-5°	39.5	41.2	45.7	50.6	58.6	67.2	76.1	85.1	96.2	107.7	119.3
-6.25°	39.4	41.1	45.2	50.1	57.7	66.2	75.1	84.1	94.7	106.3	117.7
-7.5°	39.2	40.9	44.6	49.5	56.6	65.1	73.9	82.8	93.0	104.5	115.9
-8.75°	39.0	40.7	44.0	48.8	55.4	63.8	72.4	81.3	91.0	102.3	113.7
-10°	38.8	40.4	43.2	48.0	53.9	62.3	70.7	79.5	88.7	99.9	111.1
-11.25°	38.5	40.1	42.3	47.1	52.3	60.6	68.9	77.6	86.3	97.2	108.3
-12.5°	38.2	39.8	41.5	46.1	50.9	58.7	66.9	75.4	84.0	94.2	105.1
-13.75°	38.0	39.5	41.1	45.0	49.7	56.6	64.7	73.0	81.5	90.8	101.7
-15°	37.8	39.1	40.7	43.8	48.5	54.3	62.4	70.4	78.8	87.2	97.9
-16.25°	37.6	38.7	40.3	42.5	47.1	51.9	59.8	67.7	75.9	84.2	93.9
-17.5°	37.4	38.3	39.8	41.4	45.7	50.2	57.1	64.9	72.8	80.9	89.6
-18.75°	37.2	37.9	39.3	40.9	44.1	48.6	54.2	61.9	69.6	77.5	85.4
-20°	36.9	37.7	38.8	40.3	42.5	46.9	51.3	58.7	66.2	73.9	81.7
-21.25°	36.7	37.4	38.3	39.8	41.3	45.1	49.4	55.4	62.7	70.1	77.8



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-48.75°	-47.5°	-46.25°	-45°	-43.75°	-42.5°	-41.25°	-40°	-38.75°	-37.5°	-36.25°
-22.5°	36.4	37.2	37.9	39.2	40.6	43.2	47.5	51.9	59.1	66.3	73.6
-23.75°	36.1	36.9	37.6	38.6	40.0	41.4	45.4	49.6	55.3	62.3	69.3
-25°	35.8	36.6	37.3	38.0	39.3	40.7	43.3	47.4	51.4	58.2	65.1
-26.25°	35.5	36.3	37.0	37.7	38.6	40.0	41.4	45.1	49.0	54.0	60.7
-27.5°	35.2	35.9	36.6	37.3	38.0	39.2	40.6	42.7	46.6	50.4	56.1
-28.75°	34.8	35.6	36.3	37.0	37.6	38.5	39.8	41.1	44.0	47.8	51.5
-30°	34.4	35.2	35.9	36.6	37.2	37.9	39.0	40.2	41.5	45.1	48.7
-31.25°	34.0	34.8	35.5	36.2	36.8	37.5	38.1	39.3	40.6	42.3	45.8
-32.5°	33.6	34.4	35.1	35.8	36.4	37.0	37.7	38.4	39.6	40.8	42.9
-33.75°	33.1	33.9	34.7	35.3	36.0	36.6	37.2	37.8	38.7	39.8	41.0
-35°	32.7	33.4	34.2	34.9	35.5	36.1	36.8	37.3	37.9	38.8	39.9
-36.25°	32.2	32.9	33.7	34.4	35.1	35.7	36.3	36.8	37.4	37.9	38.9
-37.5°	31.8	32.4	33.1	33.9	34.6	35.2	35.8	36.3	36.9	37.4	37.9
-38.75°	31.4	32.0	32.6	33.3	34.0	34.7	35.2	35.8	36.4	36.9	37.4
-40°	30.9	31.5	32.1	32.8	33.4	34.1	34.7	35.3	35.8	36.3	36.8
-41.25°	30.4	31.1	31.7	32.2	32.8	33.5	34.1	34.7	35.2	35.8	36.3
-42.5°	29.7	30.6	31.2	31.7	32.3	32.9	33.5	34.1	34.7	35.2	35.7
-43.75°	29.1	29.9	30.7	31.2	31.7	32.3	32.8	33.4	34.0	34.6	35.1
-45°	28.4	29.2	29.9	30.7	31.2	31.7	32.2	32.8	33.3	33.9	34.4
-46.25°	27.7	28.5	29.2	29.9	30.7	31.2	31.7	32.1	32.6	33.1	33.7
-47.5°	26.8	27.7	28.5	29.2	29.9	30.6	31.1	31.5	32.0	32.4	32.9
-48.75°	26.0	26.8	27.7	28.4	29.1	29.7	30.4	30.9	31.4	31.8	32.2
-50°	25.2	26.0	26.8	27.5	28.3	28.9	29.6	30.2	30.8	31.2	31.6
-51.25°	24.1	25.1	25.9	26.6	27.4	28.1	28.7	29.3	29.9	30.5	30.9
-52.5°	23.0	24.0	24.9	25.7	26.4	27.1	27.8	28.4	29.0	29.5	30.1
-53.75°	21.9	22.8	23.8	24.7	25.4	26.1	26.8	27.4	28.1	28.6	29.1
-55°	20.9	21.7	22.6	23.4	24.3	25.1	25.8	26.4	27.0	27.6	28.2
-56.25°	20.0	20.7	21.3	22.2	23.0	23.8	24.6	25.3	25.9	26.5	27.0
-57.5°	19.1	19.7	20.4	21.0	21.7	22.5	23.3	24.0	24.7	25.4	25.9
-58.75°	18.2	18.8	19.4	20.0	20.6	21.2	21.9	22.6	23.3	24.0	24.7
-60°	17.1	17.8	18.5	19.0	19.6	20.2	20.7	21.2	21.9	22.6	23.2
-61.25°	16.1	16.7	17.4	18.0	18.6	19.1	19.6	20.1	20.6	21.1	21.7
-62.5°	15.0	15.6	16.3	16.9	17.5	18.1	18.6	19.1	19.5	20.0	20.4
-63.75°	14.3	14.6	15.1	15.7	16.3	16.8	17.4	17.9	18.4	18.9	19.3
-65°	13.8	14.1	14.4	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
-66.25°	13.3	13.5	13.8	14.1	14.3	14.5	14.9	15.4	15.8	16.3	16.7
-67.5°	12.7	13.0	13.2	13.5	13.7	13.9	14.2	14.4	14.6	14.9	15.4
-68.75°	12.2	12.4	12.7	12.9	13.1	13.3	13.6	13.8	14.0	14.2	14.4
-70°	11.7	11.9	12.1	12.3	12.5	12.7	12.9	13.1	13.3	13.5	13.7
-71.25°	11.1	11.3	11.5	11.7	11.9	12.1	12.3	12.5	12.7	12.8	13.0
-72.5°	10.5	10.7	10.9	11.1	11.3	11.5	11.7	11.9	12.0	12.2	12.3
-73.75°	10.0	10.1	10.3	10.5	10.7	10.9	11.0	11.2	11.4	11.5	11.7
-75°	9.4	9.6	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	11.0
-76.25°	8.7	8.9	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.3
-77.5°	8.0	8.2	8.3	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.5



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-48.75°	-47.5°	-46.25°	-45°	-43.75°	-42.5°	-41.25°	-40°	-38.75°	-37.5°	-36.25°
-78.75°	7.3	7.5	7.6	7.8	7.9	8.0	8.2	8.3	8.5	8.6	8.7
-80°	6.4	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.8	7.9
-81.25°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.8	6.9
-82.5°	4.7	4.9	5.0	5.1	5.2	5.3	5.5	5.6	5.7	5.8	5.9
-83.75°	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8
-85°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.7	3.8
-86.25°	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7
-87.5°	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8
-88.75°	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-33.75°	-32.5°	-31.25°	-30°	-28.75°	-27.5°	-26.25°	-25°	-23.75°	-22.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
86.25°	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.2	3.2
85°	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.3	4.3	4.4	4.4
83.75°	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4	5.5	5.5	5.6
82.5°	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8
81.25°	7.0	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9
80°	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.8	8.9
78.75°	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8
77.5°	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.4	10.5	10.6
76.25°	10.4	10.5	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.3	11.4
75°	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2
73.75°	11.8	11.9	12.1	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0
72.5°	12.5	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.6	13.7	13.8
71.25°	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5
70°	13.9	14.0	14.2	14.4	14.5	14.7	14.9	15.2	15.5	15.7	16.0
68.75°	14.5	14.8	15.1	15.5	15.8	16.1	16.5	16.8	17.0	17.3	17.6
67.5°	15.8	16.2	16.6	16.9	17.3	17.6	18.0	18.3	18.6	18.8	19.0
66.25°	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.6	19.9	20.2	20.4
65°	18.5	18.9	19.3	19.6	20.0	20.3	20.6	20.9	21.2	21.6	22.0
63.75°	19.7	20.1	20.5	20.9	21.2	21.7	22.1	22.6	23.0	23.4	23.7
62.5°	20.9	21.3	21.9	22.4	22.9	23.4	23.8	24.3	24.7	25.1	25.4
61.25°	22.3	22.9	23.4	24.0	24.5	25.0	25.4	25.8	26.1	26.4	26.8
60°	23.8	24.4	25.0	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.1
58.75°	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.3	28.7	29.0	29.3
57.5°	26.4	26.9	27.4	27.9	28.3	28.7	29.1	29.5	29.8	30.1	30.5
56.25°	27.6	28.1	28.6	29.0	29.4	29.8	30.2	30.6	30.9	31.1	31.3
55°	28.6	29.1	29.6	30.0	30.5	30.8	31.1	31.4	31.7	31.9	32.1
53.75°	29.6	30.1	30.6	31.0	31.3	31.6	31.9	32.2	32.4	32.7	33.0
52.5°	30.6	31.0	31.3	31.7	32.0	32.3	32.7	33.0	33.3	33.6	33.9
51.25°	31.3	31.7	32.0	32.4	32.8	33.2	33.5	33.9	34.2	34.6	34.8
50°	32.0	32.4	32.8	33.2	33.6	34.0	34.4	34.7	35.1	35.3	35.6
48.75°	32.7	33.1	33.6	34.0	34.4	34.8	35.2	35.5	35.8	36.1	36.4
47.5°	33.4	33.9	34.4	34.8	35.2	35.6	35.9	36.3	36.6	36.9	37.2
46.25°	34.2	34.7	35.1	35.5	35.9	36.3	36.6	37.0	37.3	37.6	37.9
45°	34.9	35.3	35.8	36.2	36.6	37.0	37.3	37.7	38.0	38.6	39.2
43.75°	35.5	36.0	36.4	36.8	37.2	37.6	38.0	38.6	39.3	40.0	40.6
42.5°	36.1	36.6	37.0	37.5	37.9	38.5	39.2	40.0	40.7	41.4	43.2
41.25°	36.8	37.2	37.7	38.1	39.0	39.8	40.6	41.4	43.3	45.4	47.5
40°	37.3	37.8	38.4	39.3	40.2	41.1	42.7	45.1	47.4	49.6	51.9
38.75°	37.9	38.7	39.6	40.6	41.5	44.0	46.6	49.0	51.4	55.3	59.1
37.5°	38.8	39.8	40.8	42.3	45.1	47.8	50.4	54.0	58.2	62.3	66.3
36.25°	39.9	41.0	42.9	45.8	48.7	51.5	56.1	60.7	65.1	69.3	73.6
35°	41.0	43.2	46.3	49.3	52.8	57.8	62.6	67.3	72.0	76.6	81.1



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-33.75°	-32.5°	-31.25°	-30°	-28.75°	-27.5°	-26.25°	-25°	-23.75°	-22.5°
33.75°	43.2	46.4	49.6	53.6	58.8	64.0	69.0	74.1	79.0	83.8	88.8
32.5°	46.3	49.6	53.9	59.4	64.8	70.1	75.5	80.8	85.9	92.0	98.1
31.25°	49.3	53.6	59.4	65.1	70.7	76.4	82.0	87.6	94.4	101.0	107.3
30°	52.8	58.8	64.8	70.7	76.7	82.6	88.8	96.0	103.0	109.8	116.4
28.75°	57.8	64.0	70.1	76.4	82.6	89.2	96.8	104.2	111.5	118.5	125.3
27.5°	62.6	69.0	75.5	82.0	88.8	96.8	104.7	112.3	119.8	127.0	134.1
26.25°	67.3	74.1	80.8	87.6	96.0	104.2	112.3	120.2	127.9	135.9	145.8
25°	72.0	79.0	85.9	94.4	103.0	111.5	119.8	127.9	136.5	147.0	157.2
23.75°	76.6	83.8	92.0	101.0	109.8	118.5	127.0	135.9	147.0	157.8	168.8
22.5°	81.1	88.8	98.1	107.3	116.4	125.3	134.1	145.8	157.2	168.8	181.3
21.25°	85.3	94.5	104.0	113.4	122.7	131.8	143.3	155.3	167.3	180.6	193.5
20°	90.1	99.9	109.7	119.3	128.7	139.7	152.2	164.5	178.3	191.9	205.8
18.75°	95.1	105.1	115.1	124.9	134.9	147.8	160.7	174.5	188.8	203.1	219.2
17.5°	99.9	110.1	120.2	130.2	142.3	155.6	169.3	184.2	198.9	215.2	239.4
16.25°	104.3	114.7	125.0	135.7	149.4	163.0	178.2	193.5	209.6	231.7	268.5
15°	108.5	119.1	129.5	142.1	156.1	170.7	186.5	202.3	221.1	252.1	302.9
13.75°	112.4	123.1	133.8	148.1	162.4	178.2	194.4	211.7	236.9	280.8	342.5
12.5°	116.0	126.9	139.1	153.7	168.6	185.2	201.6	221.7	256.1	312.5	382.6
11.25°	119.3	130.3	143.9	158.7	174.7	191.6	209.3	234.6	279.7	345.0	421.1
10°	122.3	133.4	148.3	163.3	180.2	197.4	216.4	247.1	304.0	377.4	458.4
8.75°	124.9	137.0	152.3	167.7	185.2	202.7	225.1	265.4	329.4	407.4	492.1
7.5°	127.2	140.3	155.7	171.9	189.5	207.9	233.9	281.5	351.7	434.5	520.6
6.25°	129.2	143.1	158.6	175.4	193.2	212.4	241.4	296.3	372.9	458.7	544.9
5°	130.8	145.4	161.0	178.3	196.2	216.1	249.3	311.2	390.7	478.7	565.1
3.75°	132.1	147.2	162.9	180.6	198.6	219.2	257.8	323.0	404.7	494.4	579.7
2.5°	133.0	148.5	164.2	182.2	200.3	222.6	263.9	331.4	414.7	505.3	590.1
1.25°	133.5	149.2	165.0	183.2	201.4	224.6	267.5	336.5	420.8	511.8	596.4
0°	133.7	149.5	165.3	183.5	201.7	225.2	268.8	338.2	422.8	513.9	598.5
-1.25°	133.5	149.2	165.0	183.2	201.4	224.6	267.5	336.5	420.8	511.8	596.4
-2.5°	133.0	148.5	164.2	182.2	200.3	222.6	263.9	331.4	414.7	505.3	590.1
-3.75°	132.1	147.2	162.9	180.6	198.6	219.2	257.8	323.0	404.7	494.4	579.7
-5°	130.8	145.4	161.0	178.3	196.2	216.1	249.3	311.2	390.7	478.7	565.1
-6.25°	129.2	143.1	158.6	175.4	193.2	212.4	241.4	296.3	372.9	458.7	544.9
-7.5°	127.2	140.3	155.7	171.9	189.5	207.9	233.9	281.5	351.7	434.5	520.6
-8.75°	124.9	137.0	152.3	167.7	185.2	202.7	225.1	265.4	329.4	407.4	492.1
-10°	122.3	133.4	148.3	163.3	180.2	197.4	216.4	247.1	304.0	377.4	458.4
-11.25°	119.3	130.3	143.9	158.7	174.7	191.6	209.3	234.6	279.7	345.0	421.1
-12.5°	116.0	126.9	139.1	153.7	168.6	185.2	201.6	221.7	256.1	312.5	382.6
-13.75°	112.4	123.1	133.8	148.1	162.4	178.2	194.4	211.7	236.9	280.8	342.5
-15°	108.5	119.1	129.5	142.1	156.1	170.7	186.5	202.3	221.1	252.1	302.9
-16.25°	104.3	114.7	125.0	135.7	149.4	163.0	178.2	193.5	209.6	231.7	268.5
-17.5°	99.9	110.1	120.2	130.2	142.3	155.6	169.3	184.2	198.9	215.2	239.4
-18.75°	95.1	105.1	115.1	124.9	134.9	147.8	160.7	174.5	188.8	203.1	219.2
-20°	90.1	99.9	109.7	119.3	128.7	139.7	152.2	164.5	178.3	191.9	205.8
-21.25°	85.3	94.5	104.0	113.4	122.7	131.8	143.3	155.3	167.3	180.6	193.5





REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-33.75°	-32.5°	-31.25°	-30°	-28.75°	-27.5°	-26.25°	-25°	-23.75°	-22.5°
-22.5°	81.1	88.8	98.1	107.3	116.4	125.3	134.1	145.8	157.2	168.8	181.3
-23.75°	76.6	83.8	92.0	101.0	109.8	118.5	127.0	135.9	147.0	157.8	168.8
-25°	72.0	79.0	85.9	94.4	103.0	111.5	119.8	127.9	136.5	147.0	157.2
-26.25°	67.3	74.1	80.8	87.6	96.0	104.2	112.3	120.2	127.9	135.9	145.8
-27.5°	62.6	69.0	75.5	82.0	88.8	96.8	104.7	112.3	119.8	127.0	134.1
-28.75°	57.8	64.0	70.1	76.4	82.6	89.2	96.8	104.2	111.5	118.5	125.3
-30°	52.8	58.8	64.8	70.7	76.7	82.6	88.8	96.0	103.0	109.8	116.4
-31.25°	49.3	53.6	59.4	65.1	70.7	76.4	82.0	87.6	94.4	101.0	107.3
-32.5°	46.3	49.6	53.9	59.4	64.8	70.1	75.5	80.8	85.9	92.0	98.1
-33.75°	43.2	46.4	49.6	53.6	58.8	64.0	69.0	74.1	79.0	83.8	88.8
-35°	41.0	43.2	46.3	49.3	52.8	57.8	62.6	67.3	72.0	76.6	81.1
-36.25°	39.9	41.0	42.9	45.8	48.7	51.5	56.1	60.7	65.1	69.3	73.6
-37.5°	38.8	39.8	40.8	42.3	45.1	47.8	50.4	54.0	58.2	62.3	66.3
-38.75°	37.9	38.7	39.6	40.6	41.5	44.0	46.6	49.0	51.4	55.3	59.1
-40°	37.3	37.8	38.4	39.3	40.2	41.1	42.7	45.1	47.4	49.6	51.9
-41.25°	36.8	37.2	37.7	38.1	39.0	39.8	40.6	41.4	43.3	45.4	47.5
-42.5°	36.1	36.6	37.0	37.5	37.9	38.5	39.2	40.0	40.7	41.4	43.2
-43.75°	35.5	36.0	36.4	36.8	37.2	37.6	38.0	38.6	39.3	40.0	40.6
-45°	34.9	35.3	35.8	36.2	36.6	37.0	37.3	37.7	38.0	38.6	39.2
-46.25°	34.2	34.7	35.1	35.5	35.9	36.3	36.6	37.0	37.3	37.6	37.9
-47.5°	33.4	33.9	34.4	34.8	35.2	35.6	35.9	36.3	36.6	36.9	37.2
-48.75°	32.7	33.1	33.6	34.0	34.4	34.8	35.2	35.5	35.8	36.1	36.4
-50°	32.0	32.4	32.8	33.2	33.6	34.0	34.4	34.7	35.1	35.3	35.6
-51.25°	31.3	31.7	32.0	32.4	32.8	33.2	33.5	33.9	34.2	34.6	34.8
-52.5°	30.6	31.0	31.3	31.7	32.0	32.3	32.7	33.0	33.3	33.6	33.9
-53.75°	29.6	30.1	30.6	31.0	31.3	31.6	31.9	32.2	32.4	32.7	33.0
-55°	28.6	29.1	29.6	30.0	30.5	30.8	31.1	31.4	31.7	31.9	32.1
-56.25°	27.6	28.1	28.6	29.0	29.4	29.8	30.2	30.6	30.9	31.1	31.3
-57.5°	26.4	26.9	27.4	27.9	28.3	28.7	29.1	29.5	29.8	30.1	30.5
-58.75°	25.3	25.8	26.2	26.7	27.1	27.6	28.0	28.3	28.7	29.0	29.3
-60°	23.8	24.4	25.0	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.1
-61.25°	22.3	22.9	23.4	24.0	24.5	25.0	25.4	25.8	26.1	26.4	26.8
-62.5°	20.9	21.3	21.9	22.4	22.9	23.4	23.8	24.3	24.7	25.1	25.4
-63.75°	19.7	20.1	20.5	20.9	21.2	21.7	22.1	22.6	23.0	23.4	23.7
-65°	18.5	18.9	19.3	19.6	20.0	20.3	20.6	20.9	21.2	21.6	22.0
-66.25°	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.6	19.9	20.2	20.4
-67.5°	15.8	16.2	16.6	16.9	17.3	17.6	18.0	18.3	18.6	18.8	19.0
-68.75°	14.5	14.8	15.1	15.5	15.8	16.1	16.5	16.8	17.0	17.3	17.6
-70°	13.9	14.0	14.2	14.4	14.5	14.7	14.9	15.2	15.5	15.7	16.0
-71.25°	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5
-72.5°	12.5	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.6	13.7	13.8
-73.75°	11.8	11.9	12.1	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0
-75°	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2
-76.25°	10.4	10.5	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.3	11.4
-77.5°	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.4	10.5	10.6



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-33.75°	-32.5°	-31.25°	-30°	-28.75°	-27.5°	-26.25°	-25°	-23.75°	-22.5°
-78.75°	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8
-80°	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.8	8.9
-81.25°	7.0	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9
-82.5°	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8
-83.75°	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4	5.5	5.5	5.6
-85°	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.3	4.3	4.4	4.4
-86.25°	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.2	3.2
-87.5°	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
-88.75°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-21.25°	-20°	-18.75°	-17.5°	-16.25°	-15°	-13.75°	-12.5°	-11.25°	-10°	-8.75°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2
86.25°	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.5
85°	4.4	4.5	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.7
83.75°	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	6.0	6.0	6.0
82.5°	6.9	6.9	7.0	7.0	7.1	7.1	7.2	7.2	7.2	7.3	7.3
81.25°	7.9	8.0	8.1	8.1	8.2	8.2	8.2	8.3	8.3	8.3	8.4
80°	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4
78.75°	9.8	9.9	10.0	10.0	10.1	10.1	10.2	10.2	10.2	10.3	10.3
77.5°	10.7	10.7	10.8	10.9	10.9	11.0	11.0	11.1	11.1	11.2	11.2
76.25°	11.5	11.6	11.6	11.7	11.8	11.8	11.9	11.9	12.0	12.0	12.0
75°	12.3	12.4	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.8	12.9
73.75°	13.1	13.2	13.2	13.3	13.4	13.5	13.5	13.6	13.6	13.7	13.7
72.5°	13.9	14.0	14.0	14.1	14.2	14.3	14.3	14.4	14.5	14.5	14.6
71.25°	14.7	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1
70°	16.2	16.4	16.7	16.9	17.0	17.2	17.4	17.5	17.6	17.8	17.9
68.75°	17.8	18.1	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.3	19.4
67.5°	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7	20.8	20.9
66.25°	20.7	20.9	21.1	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.7
65°	22.3	22.6	22.9	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.6
63.75°	24.1	24.4	24.7	25.0	25.3	25.4	25.6	25.8	26.0	26.1	26.2
62.5°	25.7	26.0	26.2	26.5	26.7	26.9	27.1	27.3	27.4	27.6	27.7
61.25°	27.1	27.3	27.6	27.9	28.1	28.3	28.5	28.6	28.8	28.9	29.0
60°	28.4	28.6	28.9	29.1	29.3	29.5	29.7	29.9	30.0	30.2	30.3
58.75°	29.6	29.8	30.1	30.3	30.6	30.8	30.9	31.0	31.1	31.2	31.3
57.5°	30.7	30.9	31.1	31.3	31.5	31.6	31.8	31.9	32.0	32.1	32.2
56.25°	31.6	31.8	32.0	32.1	32.3	32.5	32.6	32.8	32.9	33.1	33.2
55°	32.4	32.6	32.8	33.1	33.3	33.5	33.6	33.8	34.0	34.1	34.2
53.75°	33.3	33.6	33.8	34.0	34.3	34.5	34.6	34.8	34.9	35.0	35.1
52.5°	34.2	34.5	34.7	35.0	35.1	35.3	35.5	35.7	35.8	35.9	36.0
51.25°	35.1	35.3	35.6	35.8	36.0	36.2	36.4	36.5	36.7	36.8	36.9
50°	35.9	36.2	36.4	36.6	36.8	37.0	37.2	37.3	37.5	37.6	37.7
48.75°	36.7	36.9	37.2	37.4	37.6	37.8	38.0	38.2	38.5	38.8	39.0
47.5°	37.4	37.7	37.9	38.3	38.7	39.1	39.5	39.8	40.1	40.4	40.7
46.25°	38.3	38.8	39.3	39.8	40.3	40.7	41.1	41.5	42.3	43.2	44.0
45°	39.8	40.3	40.9	41.4	42.5	43.8	45.0	46.1	47.1	48.0	48.8
43.75°	41.3	42.5	44.1	45.7	47.1	48.5	49.7	50.9	52.3	53.9	55.4
42.5°	45.1	46.9	48.6	50.2	51.9	54.3	56.6	58.7	60.6	62.3	63.8
41.25°	49.4	51.3	54.2	57.1	59.8	62.4	64.7	66.9	68.9	70.7	72.4
40°	55.4	58.7	61.9	64.9	67.7	70.4	73.0	75.4	77.6	79.5	81.3
38.75°	62.7	66.2	69.6	72.8	75.9	78.8	81.5	84.0	86.3	88.7	91.0
37.5°	70.1	73.9	77.5	80.9	84.2	87.2	90.8	94.2	97.2	99.9	102.3
36.25°	77.8	81.7	85.4	89.6	93.9	97.9	101.7	105.1	108.3	111.1	113.7
35°	85.3	90.1	95.1	99.9	104.3	108.5	112.4	116.0	119.3	122.3	124.9



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-21.25°	-20°	-18.75°	-17.5°	-16.25°	-15°	-13.75°	-12.5°	-11.25°	-10°	-8.75°
33.75°	94.5	99.9	105.1	110.1	114.7	119.1	123.1	126.9	130.3	133.4	137.0
32.5°	104.0	109.7	115.1	120.2	125.0	129.5	133.8	139.1	143.9	148.3	152.3
31.25°	113.4	119.3	124.9	130.2	135.7	142.1	148.1	153.7	158.7	163.3	167.7
30°	122.7	128.7	134.9	142.3	149.4	156.1	162.4	168.6	174.7	180.2	185.2
28.75°	131.8	139.7	147.8	155.6	163.0	170.7	178.2	185.2	191.6	197.4	202.7
27.5°	143.3	152.2	160.7	169.3	178.2	186.5	194.4	201.6	209.3	216.4	225.1
26.25°	155.3	164.5	174.5	184.2	193.5	202.3	211.7	221.7	234.6	247.1	265.4
25°	167.3	178.3	188.8	198.9	209.6	221.1	236.9	256.1	279.7	304.0	329.4
23.75°	180.6	191.9	203.1	215.2	231.7	252.1	280.8	312.5	345.0	377.4	407.4
22.5°	193.5	205.8	219.2	239.4	268.5	302.9	342.5	382.6	421.1	458.4	492.1
21.25°	206.8	222.3	244.1	279.6	321.6	366.8	413.4	459.1	501.9	539.4	572.7
20°	222.3	245.8	285.1	332.9	384.2	436.5	488.3	535.1	577.2	613.3	642.5
18.75°	244.1	285.1	336.7	393.0	450.9	507.5	559.2	604.3	642.4	672.1	692.2
17.5°	279.6	332.9	393.0	455.7	517.0	573.2	622.7	660.8	689.5	709.4	725.4
16.25°	321.6	384.2	450.9	517.0	577.7	631.7	672.0	699.3	720.7	738.9	756.3
15°	366.8	436.5	507.5	573.2	631.7	675.8	704.3	727.4	748.5	768.7	787.3
13.75°	413.4	488.3	559.2	622.7	672.0	704.3	729.6	753.4	776.4	797.9	817.7
12.5°	459.1	535.1	604.3	660.8	699.3	727.4	753.4	778.9	803.3	826.0	846.2
11.25°	501.9	577.2	642.4	689.5	720.7	748.5	776.4	803.3	828.8	851.9	876.8
10°	539.4	613.3	672.1	709.4	738.9	768.7	797.9	826.0	851.9	880.3	908.4
8.75°	572.7	642.5	692.2	725.4	756.3	787.3	817.7	846.2	876.8	908.4	939.0
7.5°	600.0	665.1	707.3	739.4	771.9	804.0	835.0	866.4	900.6	934.7	966.2
6.25°	623.5	683.0	719.3	752.0	785.4	818.5	850.0	885.3	922.1	957.8	989.3
5°	640.3	693.2	728.8	762.6	796.8	830.5	864.3	902.1	940.7	976.7	1008.2
3.75°	652.2	701.3	736.2	771.0	805.9	839.8	876.0	915.6	955.5	991.2	1021.9
2.5°	660.9	707.2	741.8	777.1	812.4	846.6	884.7	925.7	965.7	1001.5	1031.9
1.25°	666.1	710.7	745.2	780.8	816.4	850.7	890.2	931.8	972.1	1007.9	1037.7
0°	667.9	711.9	746.3	782.0	817.8	852.1	892.0	933.9	974.2	1010.1	1039.6
-1.25°	666.1	710.7	745.2	780.8	816.4	850.7	890.2	931.8	972.1	1007.9	1037.7
-2.5°	660.9	707.2	741.8	777.1	812.4	846.6	884.7	925.7	965.7	1001.5	1031.9
-3.75°	652.2	701.3	736.2	771.0	805.9	839.8	876.0	915.6	955.5	991.2	1021.9
-5°	640.3	693.2	728.8	762.6	796.8	830.5	864.3	902.1	940.7	976.7	1008.2
-6.25°	623.5	683.0	719.3	752.0	785.4	818.5	850.0	885.3	922.1	957.8	989.3
-7.5°	600.0	665.1	707.3	739.4	771.9	804.0	835.0	866.4	900.6	934.7	966.2
-8.75°	572.7	642.5	692.2	725.4	756.3	787.3	817.7	846.2	876.8	908.4	939.0
-10°	539.4	613.3	672.1	709.4	738.9	768.7	797.9	826.0	851.9	880.3	908.4
-11.25°	501.9	577.2	642.4	689.5	720.7	748.5	776.4	803.3	828.8	851.9	876.8
-12.5°	459.1	535.1	604.3	660.8	699.3	727.4	753.4	778.9	803.3	826.0	846.2
-13.75°	413.4	488.3	559.2	622.7	672.0	704.3	729.6	753.4	776.4	797.9	817.7
-15°	366.8	436.5	507.5	573.2	631.7	675.8	704.3	727.4	748.5	768.7	787.3
-16.25°	321.6	384.2	450.9	517.0	577.7	631.7	672.0	699.3	720.7	738.9	756.3
-17.5°	279.6	332.9	393.0	455.7	517.0	573.2	622.7	660.8	689.5	709.4	725.4
-18.75°	244.1	285.1	336.7	393.0	450.9	507.5	559.2	604.3	642.4	672.1	692.2
-20°	222.3	245.8	285.1	332.9	384.2	436.5	488.3	535.1	577.2	613.3	642.5
-21.25°	206.8	222.3	244.1	279.6	321.6	366.8	413.4	459.1	501.9	539.4	572.7



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-21.25°	-20°	-18.75°	-17.5°	-16.25°	-15°	-13.75°	-12.5°	-11.25°	-10°	-8.75°
-22.5°	193.5	205.8	219.2	239.4	268.5	302.9	342.5	382.6	421.1	458.4	492.1
-23.75°	180.6	191.9	203.1	215.2	231.7	252.1	280.8	312.5	345.0	377.4	407.4
-25°	167.3	178.3	188.8	198.9	209.6	221.1	236.9	256.1	279.7	304.0	329.4
-26.25°	155.3	164.5	174.5	184.2	193.5	202.3	211.7	221.7	234.6	247.1	265.4
-27.5°	143.3	152.2	160.7	169.3	178.2	186.5	194.4	201.6	209.3	216.4	225.1
-28.75°	131.8	139.7	147.8	155.6	163.0	170.7	178.2	185.2	191.6	197.4	202.7
-30°	122.7	128.7	134.9	142.3	149.4	156.1	162.4	168.6	174.7	180.2	185.2
-31.25°	113.4	119.3	124.9	130.2	135.7	142.1	148.1	153.7	158.7	163.3	167.7
-32.5°	104.0	109.7	115.1	120.2	125.0	129.5	133.8	139.1	143.9	148.3	152.3
-33.75°	94.5	99.9	105.1	110.1	114.7	119.1	123.1	126.9	130.3	133.4	137.0
-35°	85.3	90.1	95.1	99.9	104.3	108.5	112.4	116.0	119.3	122.3	124.9
-36.25°	77.8	81.7	85.4	89.6	93.9	97.9	101.7	105.1	108.3	111.1	113.7
-37.5°	70.1	73.9	77.5	80.9	84.2	87.2	90.8	94.2	97.2	99.9	102.3
-38.75°	62.7	66.2	69.6	72.8	75.9	78.8	81.5	84.0	86.3	88.7	91.0
-40°	55.4	58.7	61.9	64.9	67.7	70.4	73.0	75.4	77.6	79.5	81.3
-41.25°	49.4	51.3	54.2	57.1	59.8	62.4	64.7	66.9	68.9	70.7	72.4
-42.5°	45.1	46.9	48.6	50.2	51.9	54.3	56.6	58.7	60.6	62.3	63.8
-43.75°	41.3	42.5	44.1	45.7	47.1	48.5	49.7	50.9	52.3	53.9	55.4
-45°	39.8	40.3	40.9	41.4	42.5	43.8	45.0	46.1	47.1	48.0	48.8
-46.25°	38.3	38.8	39.3	39.8	40.3	40.7	41.1	41.5	42.3	43.2	44.0
-47.5°	37.4	37.7	37.9	38.3	38.7	39.1	39.5	39.8	40.1	40.4	40.7
-48.75°	36.7	36.9	37.2	37.4	37.6	37.8	38.0	38.2	38.5	38.8	39.0
-50°	35.9	36.2	36.4	36.6	36.8	37.0	37.2	37.3	37.5	37.6	37.7
-51.25°	35.1	35.3	35.6	35.8	36.0	36.2	36.4	36.5	36.7	36.8	36.9
-52.5°	34.2	34.5	34.7	35.0	35.1	35.3	35.5	35.7	35.8	35.9	36.0
-53.75°	33.3	33.6	33.8	34.0	34.3	34.5	34.6	34.8	34.9	35.0	35.1
-55°	32.4	32.6	32.8	33.1	33.3	33.5	33.6	33.8	34.0	34.1	34.2
-56.25°	31.6	31.8	32.0	32.1	32.3	32.5	32.6	32.8	32.9	33.1	33.2
-57.5°	30.7	30.9	31.1	31.3	31.5	31.6	31.8	31.9	32.0	32.1	32.2
-58.75°	29.6	29.8	30.1	30.3	30.6	30.8	30.9	31.0	31.1	31.2	31.3
-60°	28.4	28.6	28.9	29.1	29.3	29.5	29.7	29.9	30.0	30.2	30.3
-61.25°	27.1	27.3	27.6	27.9	28.1	28.3	28.5	28.6	28.8	28.9	29.0
-62.5°	25.7	26.0	26.2	26.5	26.7	26.9	27.1	27.3	27.4	27.6	27.7
-63.75°	24.1	24.4	24.7	25.0	25.3	25.4	25.6	25.8	26.0	26.1	26.2
-65°	22.3	22.6	22.9	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.6
-66.25°	20.7	20.9	21.1	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.7
-67.5°	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7	20.8	20.9
-68.75°	17.8	18.1	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.3	19.4
-70°	16.2	16.4	16.7	16.9	17.0	17.2	17.4	17.5	17.6	17.8	17.9
-71.25°	14.7	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1
-72.5°	13.9	14.0	14.0	14.1	14.2	14.3	14.3	14.4	14.5	14.5	14.6
-73.75°	13.1	13.2	13.2	13.3	13.4	13.5	13.5	13.6	13.6	13.7	13.7
-75°	12.3	12.4	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.8	12.9
-76.25°	11.5	11.6	11.6	11.7	11.8	11.8	11.9	11.9	12.0	12.0	12.0
-77.5°	10.7	10.7	10.8	10.9	10.9	11.0	11.0	11.1	11.1	11.2	11.2



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-21.25°	-20°	-18.75°	-17.5°	-16.25°	-15°	-13.75°	-12.5°	-11.25°	-10°	-8.75°
-78.75°	9.8	9.9	10.0	10.0	10.1	10.1	10.2	10.2	10.2	10.3	10.3
-80°	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4
-81.25°	7.9	8.0	8.1	8.1	8.2	8.2	8.2	8.3	8.3	8.3	8.4
-82.5°	6.9	6.9	7.0	7.0	7.1	7.1	7.2	7.2	7.2	7.3	7.3
-83.75°	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	6.0	6.0	6.0
-85°	4.4	4.5	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.7
-86.25°	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.5
-87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2
-88.75°	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
86.25°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
83.75°	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
81.25°	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.4	8.4
80°	9.4	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
78.75°	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
77.5°	11.2	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
76.25°	12.1	12.1	12.1	12.1	12.1	12.1	12.2	12.1	12.1	12.1	12.1
75°	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
73.75°	13.8	13.8	13.8	13.8	13.8	13.8	13.9	13.8	13.8	13.8	13.8
72.5°	14.6	14.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
71.25°	16.2	16.3	16.3	16.4	16.4	16.4	16.5	16.4	16.4	16.4	16.3
70°	18.0	18.0	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.1	18.1
68.75°	19.5	19.5	19.6	19.6	19.7	19.7	19.7	19.7	19.7	19.6	19.6
67.5°	21.0	21.0	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.1	21.1
66.25°	22.8	22.9	23.0	23.1	23.1	23.1	23.2	23.1	23.1	23.1	23.0
65°	24.7	24.9	24.9	25.0	25.1	25.1	25.1	25.1	25.1	25.0	24.9
63.75°	26.3	26.4	26.5	26.5	26.6	26.6	26.6	26.6	26.6	26.5	26.5
62.5°	27.8	27.9	28.0	28.0	28.1	28.1	28.1	28.1	28.1	28.0	28.0
61.25°	29.1	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.3	29.3
60°	30.4	30.5	30.6	30.6	30.7	30.7	30.7	30.7	30.7	30.6	30.6
58.75°	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.6	31.5	31.5
57.5°	32.3	32.3	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.4	32.4
56.25°	33.3	33.4	33.4	33.5	33.5	33.5	33.6	33.5	33.5	33.5	33.4
55°	34.3	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.5	34.5
53.75°	35.2	35.3	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.4	35.4
52.5°	36.1	36.2	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.3	36.3
51.25°	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.2	37.2	37.2	37.1
50°	37.8	37.9	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.0	38.0
48.75°	39.2	39.4	39.5	39.7	39.7	39.8	39.8	39.8	39.7	39.7	39.5
47.5°	40.9	41.1	41.2	41.3	41.4	41.5	41.5	41.5	41.4	41.3	41.2
46.25°	44.6	45.2	45.7	46.0	46.3	46.4	46.5	46.4	46.3	46.0	45.7
45°	49.5	50.1	50.6	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.6
43.75°	56.6	57.7	58.6	59.3	59.8	60.1	60.2	60.1	59.8	59.3	58.6
42.5°	65.1	66.2	67.2	67.9	68.4	68.7	68.8	68.7	68.4	67.9	67.2
41.25°	73.9	75.1	76.1	76.9	77.4	77.8	77.9	77.8	77.4	76.9	76.1
40°	82.8	84.1	85.1	85.9	86.5	86.9	87.0	86.9	86.5	85.9	85.1
38.75°	93.0	94.7	96.2	97.3	98.1	98.5	98.7	98.5	98.1	97.3	96.2
37.5°	104.5	106.3	107.7	108.9	109.7	110.2	110.4	110.2	109.7	108.9	107.7
36.25°	115.9	117.7	119.3	120.5	121.4	121.9	122.1	121.9	121.4	120.5	119.3
35°	127.2	129.2	130.8	132.1	133.0	133.5	133.7	133.5	133.0	132.1	130.8



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
33.75°	140.3	143.1	145.4	147.2	148.5	149.2	149.5	149.2	148.5	147.2	145.4
32.5°	155.7	158.6	161.0	162.9	164.2	165.0	165.3	165.0	164.2	162.9	161.0
31.25°	171.9	175.4	178.3	180.6	182.2	183.2	183.5	183.2	182.2	180.6	178.3
30°	189.5	193.2	196.2	198.6	200.3	201.4	201.7	201.4	200.3	198.6	196.2
28.75°	207.9	212.4	216.1	219.2	222.6	224.6	225.2	224.6	222.6	219.2	216.1
27.5°	233.9	241.4	249.3	257.8	263.9	267.5	268.8	267.5	263.9	257.8	249.3
26.25°	281.5	296.3	311.2	323.0	331.4	336.5	338.2	336.5	331.4	323.0	311.2
25°	351.7	372.9	390.7	404.7	414.7	420.8	422.8	420.8	414.7	404.7	390.7
23.75°	434.5	458.7	478.7	494.4	505.3	511.8	513.9	511.8	505.3	494.4	478.7
22.5°	520.6	544.9	565.1	579.7	590.1	596.4	598.5	596.4	590.1	579.7	565.1
21.25°	600.0	623.5	640.3	652.2	660.9	666.1	667.9	666.1	660.9	652.2	640.3
20°	665.1	683.0	693.2	701.3	707.2	710.7	711.9	710.7	707.2	701.3	693.2
18.75°	707.3	719.3	728.8	736.2	741.8	745.2	746.3	745.2	741.8	736.2	728.8
17.5°	739.4	752.0	762.6	771.0	777.1	780.8	782.0	780.8	777.1	771.0	762.6
16.25°	771.9	785.4	796.8	805.9	812.4	816.4	817.8	816.4	812.4	805.9	796.8
15°	804.0	818.5	830.5	839.8	846.6	850.7	852.1	850.7	846.6	839.8	830.5
13.75°	835.0	850.0	864.3	876.0	884.7	890.2	892.0	890.2	884.7	876.0	864.3
12.5°	866.4	885.3	902.1	915.6	925.7	931.8	933.9	931.8	925.7	915.6	902.1
11.25°	900.6	922.1	940.7	955.5	965.7	972.1	974.2	972.1	965.7	955.5	940.7
10°	934.7	957.8	976.7	991.2	1001.5	1007.9	1010.1	1007.9	1001.5	991.2	976.7
8.75°	966.2	989.3	1008.2	1021.9	1031.9	1037.7	1039.6	1037.7	1031.9	1021.9	1008.2
7.5°	993.5	1016.1	1034.2	1047.4	1057.1	1062.1	1063.8	1062.1	1057.1	1047.4	1034.2
6.25°	1016.1	1037.9	1055.5	1067.3	1075.0	1079.0	1080.4	1079.0	1075.0	1067.3	1055.5
5°	1034.2	1055.5	1070.9	1080.4	1085.5	1088.0	1088.9	1088.0	1085.5	1080.4	1070.9
3.75°	1047.4	1067.3	1080.4	1087.2	1090.1	1091.4	1091.4	1091.4	1090.1	1087.2	1080.4
2.5°	1057.1	1075.0	1085.5	1090.1	1091.4	1091.1	1090.6	1091.1	1091.4	1090.1	1085.5
1.25°	1062.1	1079.0	1088.0	1091.4	1091.1	1089.9	1090.4	1089.9	1091.1	1091.4	1088.0
0°	1063.8	1080.4	1088.9	1091.4	1090.6	1090.4	1093.6	1090.4	1090.6	1091.4	1088.9
-1.25°	1062.1	1079.0	1088.0	1091.4	1091.1	1089.9	1090.4	1089.9	1091.1	1091.4	1088.0
-2.5°	1057.1	1075.0	1085.5	1090.1	1091.4	1091.1	1090.6	1091.1	1091.4	1090.1	1085.5
-3.75°	1047.4	1067.3	1080.4	1087.2	1090.1	1091.4	1091.4	1091.4	1090.1	1087.2	1080.4
-5°	1034.2	1055.5	1070.9	1080.4	1085.5	1088.0	1088.9	1088.0	1085.5	1080.4	1070.9
-6.25°	1016.1	1037.9	1055.5	1067.3	1075.0	1079.0	1080.4	1079.0	1075.0	1067.3	1055.5
-7.5°	993.5	1016.1	1034.2	1047.4	1057.1	1062.1	1063.8	1062.1	1057.1	1047.4	1034.2
-8.75°	966.2	989.3	1008.2	1021.9	1031.9	1037.7	1039.6	1037.7	1031.9	1021.9	1008.2
-10°	934.7	957.8	976.7	991.2	1001.5	1007.9	1010.1	1007.9	1001.5	991.2	976.7
-11.25°	900.6	922.1	940.7	955.5	965.7	972.1	974.2	972.1	965.7	955.5	940.7
-12.5°	866.4	885.3	902.1	915.6	925.7	931.8	933.9	931.8	925.7	915.6	902.1
-13.75°	835.0	850.0	864.3	876.0	884.7	890.2	892.0	890.2	884.7	876.0	864.3
-15°	804.0	818.5	830.5	839.8	846.6	850.7	852.1	850.7	846.6	839.8	830.5
-16.25°	771.9	785.4	796.8	805.9	812.4	816.4	817.8	816.4	812.4	805.9	796.8
-17.5°	739.4	752.0	762.6	771.0	777.1	780.8	782.0	780.8	777.1	771.0	762.6
-18.75°	707.3	719.3	728.8	736.2	741.8	745.2	746.3	745.2	741.8	736.2	728.8
-20°	665.1	683.0	693.2	701.3	707.2	710.7	711.9	710.7	707.2	701.3	693.2
-21.25°	600.0	623.5	640.3	652.2	660.9	666.1	667.9	666.1	660.9	652.2	640.3





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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
-22.5°	520.6	544.9	565.1	579.7	590.1	596.4	598.5	596.4	590.1	579.7	565.1
-23.75°	434.5	458.7	478.7	494.4	505.3	511.8	513.9	511.8	505.3	494.4	478.7
-25°	351.7	372.9	390.7	404.7	414.7	420.8	422.8	420.8	414.7	404.7	390.7
-26.25°	281.5	296.3	311.2	323.0	331.4	336.5	338.2	336.5	331.4	323.0	311.2
-27.5°	233.9	241.4	249.3	257.8	263.9	267.5	268.8	267.5	263.9	257.8	249.3
-28.75°	207.9	212.4	216.1	219.2	222.6	224.6	225.2	224.6	222.6	219.2	216.1
-30°	189.5	193.2	196.2	198.6	200.3	201.4	201.7	201.4	200.3	198.6	196.2
-31.25°	171.9	175.4	178.3	180.6	182.2	183.2	183.5	183.2	182.2	180.6	178.3
-32.5°	155.7	158.6	161.0	162.9	164.2	165.0	165.3	165.0	164.2	162.9	161.0
-33.75°	140.3	143.1	145.4	147.2	148.5	149.2	149.5	149.2	148.5	147.2	145.4
-35°	127.2	129.2	130.8	132.1	133.0	133.5	133.7	133.5	133.0	132.1	130.8
-36.25°	115.9	117.7	119.3	120.5	121.4	121.9	122.1	121.9	121.4	120.5	119.3
-37.5°	104.5	106.3	107.7	108.9	109.7	110.2	110.4	110.2	109.7	108.9	107.7
-38.75°	93.0	94.7	96.2	97.3	98.1	98.5	98.7	98.5	98.1	97.3	96.2
-40°	82.8	84.1	85.1	85.9	86.5	86.9	87.0	86.9	86.5	85.9	85.1
-41.25°	73.9	75.1	76.1	76.9	77.4	77.8	77.9	77.8	77.4	76.9	76.1
-42.5°	65.1	66.2	67.2	67.9	68.4	68.7	68.8	68.7	68.4	67.9	67.2
-43.75°	56.6	57.7	58.6	59.3	59.8	60.1	60.2	60.1	59.8	59.3	58.6
-45°	49.5	50.1	50.6	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.6
-46.25°	44.6	45.2	45.7	46.0	46.3	46.4	46.5	46.4	46.3	46.0	45.7
-47.5°	40.9	41.1	41.2	41.3	41.4	41.5	41.5	41.5	41.4	41.3	41.2
-48.75°	39.2	39.4	39.5	39.7	39.7	39.8	39.8	39.8	39.7	39.7	39.5
-50°	37.8	37.9	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.0	38.0
-51.25°	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.2	37.2	37.2	37.1
-52.5°	36.1	36.2	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.3	36.3
-53.75°	35.2	35.3	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.4	35.4
-55°	34.3	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.5	34.5
-56.25°	33.3	33.4	33.4	33.5	33.5	33.5	33.6	33.5	33.5	33.5	33.4
-57.5°	32.3	32.3	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.4	32.4
-58.75°	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.6	31.5	31.5
-60°	30.4	30.5	30.6	30.6	30.7	30.7	30.7	30.7	30.7	30.6	30.6
-61.25°	29.1	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.3	29.3
-62.5°	27.8	27.9	28.0	28.0	28.1	28.1	28.1	28.1	28.1	28.0	28.0
-63.75°	26.3	26.4	26.5	26.5	26.6	26.6	26.6	26.6	26.6	26.5	26.5
-65°	24.7	24.9	24.9	25.0	25.1	25.1	25.1	25.1	25.1	25.0	24.9
-66.25°	22.8	22.9	23.0	23.1	23.1	23.1	23.2	23.1	23.1	23.1	23.0
-67.5°	21.0	21.0	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.1	21.1
-68.75°	19.5	19.5	19.6	19.6	19.7	19.7	19.7	19.7	19.7	19.6	19.6
-70°	18.0	18.0	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.1	18.1
-71.25°	16.2	16.3	16.3	16.4	16.4	16.4	16.5	16.4	16.4	16.4	16.3
-72.5°	14.6	14.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
-73.75°	13.8	13.8	13.8	13.8	13.8	13.8	13.9	13.8	13.8	13.8	13.8
-75°	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
-76.25°	12.1	12.1	12.1	12.1	12.1	12.1	12.2	12.1	12.1	12.1	12.1
-77.5°	11.2	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
-78.75°	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
-80°	9.4	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
-81.25°	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.4	8.4
-82.5°	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
-83.75°	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
-85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
-86.25°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-88.75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	6.25°	7.5°	8.75°	10°	11.25°	12.5°	13.75°	15°	16.25°	17.5°	18.75°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1
86.25°	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3
85°	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.5
83.75°	6.1	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.8	5.8
82.5°	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.1	7.1	7.0	7.0
81.25°	8.4	8.4	8.4	8.3	8.3	8.3	8.2	8.2	8.2	8.1	8.1
80°	9.4	9.4	9.4	9.4	9.3	9.3	9.3	9.2	9.2	9.1	9.0
78.75°	10.4	10.3	10.3	10.3	10.2	10.2	10.2	10.1	10.1	10.0	10.0
77.5°	11.2	11.2	11.2	11.2	11.1	11.1	11.0	11.0	10.9	10.9	10.8
76.25°	12.1	12.1	12.0	12.0	12.0	11.9	11.9	11.8	11.8	11.7	11.6
75°	12.9	12.9	12.9	12.8	12.8	12.8	12.7	12.6	12.6	12.5	12.4
73.75°	13.8	13.8	13.7	13.7	13.6	13.6	13.5	13.5	13.4	13.3	13.2
72.5°	14.6	14.6	14.6	14.5	14.5	14.4	14.3	14.3	14.2	14.1	14.0
71.25°	16.3	16.2	16.1	16.0	15.9	15.8	15.7	15.5	15.4	15.2	15.0
70°	18.0	18.0	17.9	17.8	17.6	17.5	17.4	17.2	17.0	16.9	16.7
68.75°	19.5	19.5	19.4	19.3	19.2	19.1	18.9	18.8	18.6	18.5	18.3
67.5°	21.0	21.0	20.9	20.8	20.7	20.5	20.4	20.2	20.1	19.9	19.7
66.25°	22.9	22.8	22.7	22.6	22.4	22.2	22.0	21.8	21.6	21.3	21.1
65°	24.9	24.7	24.6	24.5	24.3	24.1	23.9	23.7	23.4	23.2	22.9
63.75°	26.4	26.3	26.2	26.1	26.0	25.8	25.6	25.4	25.3	25.0	24.7
62.5°	27.9	27.8	27.7	27.6	27.4	27.3	27.1	26.9	26.7	26.5	26.2
61.25°	29.2	29.1	29.0	28.9	28.8	28.6	28.5	28.3	28.1	27.9	27.6
60°	30.5	30.4	30.3	30.2	30.0	29.9	29.7	29.5	29.3	29.1	28.9
58.75°	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.6	30.3	30.1
57.5°	32.3	32.3	32.2	32.1	32.0	31.9	31.8	31.6	31.5	31.3	31.1
56.25°	33.4	33.3	33.2	33.1	32.9	32.8	32.6	32.5	32.3	32.1	32.0
55°	34.4	34.3	34.2	34.1	34.0	33.8	33.6	33.5	33.3	33.1	32.8
53.75°	35.3	35.2	35.1	35.0	34.9	34.8	34.6	34.5	34.3	34.0	33.8
52.5°	36.2	36.1	36.0	35.9	35.8	35.7	35.5	35.3	35.1	35.0	34.7
51.25°	37.1	37.0	36.9	36.8	36.7	36.5	36.4	36.2	36.0	35.8	35.6
50°	37.9	37.8	37.7	37.6	37.5	37.3	37.2	37.0	36.8	36.6	36.4
48.75°	39.4	39.2	39.0	38.8	38.5	38.2	38.0	37.8	37.6	37.4	37.2
47.5°	41.1	40.9	40.7	40.4	40.1	39.8	39.5	39.1	38.7	38.3	37.9
46.25°	45.2	44.6	44.0	43.2	42.3	41.5	41.1	40.7	40.3	39.8	39.3
45°	50.1	49.5	48.8	48.0	47.1	46.1	45.0	43.8	42.5	41.4	40.9
43.75°	57.7	56.6	55.4	53.9	52.3	50.9	49.7	48.5	47.1	45.7	44.1
42.5°	66.2	65.1	63.8	62.3	60.6	58.7	56.6	54.3	51.9	50.2	48.6
41.25°	75.1	73.9	72.4	70.7	68.9	66.9	64.7	62.4	59.8	57.1	54.2
40°	84.1	82.8	81.3	79.5	77.6	75.4	73.0	70.4	67.7	64.9	61.9
38.75°	94.7	93.0	91.0	88.7	86.3	84.0	81.5	78.8	75.9	72.8	69.6
37.5°	106.3	104.5	102.3	99.9	97.2	94.2	90.8	87.2	84.2	80.9	77.5
36.25°	117.7	115.9	113.7	111.1	108.3	105.1	101.7	97.9	93.9	89.6	85.4
35°	129.2	127.2	124.9	122.3	119.3	116.0	112.4	108.5	104.3	99.9	95.1



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**CANDELA DISTRIBUTION (continued):**

	6.25°	7.5°	8.75°	10°	11.25°	12.5°	13.75°	15°	16.25°	17.5°	18.75°
33.75°	143.1	140.3	137.0	133.4	130.3	126.9	123.1	119.1	114.7	110.1	105.1
32.5°	158.6	155.7	152.3	148.3	143.9	139.1	133.8	129.5	125.0	120.2	115.1
31.25°	175.4	171.9	167.7	163.3	158.7	153.7	148.1	142.1	135.7	130.2	124.9
30°	193.2	189.5	185.2	180.2	174.7	168.6	162.4	156.1	149.4	142.3	134.9
28.75°	212.4	207.9	202.7	197.4	191.6	185.2	178.2	170.7	163.0	155.6	147.8
27.5°	241.4	233.9	225.1	216.4	209.3	201.6	194.4	186.5	178.2	169.3	160.7
26.25°	296.3	281.5	265.4	247.1	234.6	221.7	211.7	202.3	193.5	184.2	174.5
25°	372.9	351.7	329.4	304.0	279.7	256.1	236.9	221.1	209.6	198.9	188.8
23.75°	458.7	434.5	407.4	377.4	345.0	312.5	280.8	252.1	231.7	215.2	203.1
22.5°	544.9	520.6	492.1	458.4	421.1	382.6	342.5	302.9	268.5	239.4	219.2
21.25°	623.5	600.0	572.7	539.4	501.9	459.1	413.4	366.8	321.6	279.6	244.1
20°	683.0	665.1	642.5	613.3	577.2	535.1	488.3	436.5	384.2	332.9	285.1
18.75°	719.3	707.3	692.2	672.1	642.4	604.3	559.2	507.5	450.9	393.0	336.7
17.5°	752.0	739.4	725.4	709.4	689.5	660.8	622.7	573.2	517.0	455.7	393.0
16.25°	785.4	771.9	756.3	738.9	720.7	699.3	672.0	631.7	577.7	517.0	450.9
15°	818.5	804.0	787.3	768.7	748.5	727.4	704.3	675.8	631.7	573.2	507.5
13.75°	850.0	835.0	817.7	797.9	776.4	753.4	729.6	704.3	672.0	622.7	559.2
12.5°	885.3	866.4	846.2	826.0	803.3	778.9	753.4	727.4	699.3	660.8	604.3
11.25°	922.1	900.6	876.8	851.9	828.8	803.3	776.4	748.5	720.7	689.5	642.4
10°	957.8	934.7	908.4	880.3	851.9	826.0	797.9	768.7	738.9	709.4	672.1
8.75°	989.3	966.2	939.0	908.4	876.8	846.2	817.7	787.3	756.3	725.4	692.2
7.5°	1016.1	993.5	966.2	934.7	900.6	866.4	835.0	804.0	771.9	739.4	707.3
6.25°	1037.9	1016.1	989.3	957.8	922.1	885.3	850.0	818.5	785.4	752.0	719.3
5°	1055.5	1034.2	1008.2	976.7	940.7	902.1	864.3	830.5	796.8	762.6	728.8
3.75°	1067.3	1047.4	1021.9	991.2	955.5	915.6	876.0	839.8	805.9	771.0	736.2
2.5°	1075.0	1057.1	1031.9	1001.5	965.7	925.7	884.7	846.6	812.4	777.1	741.8
1.25°	1079.0	1062.1	1037.7	1007.9	972.1	931.8	890.2	850.7	816.4	780.8	745.2
0°	1080.4	1063.8	1039.6	1010.1	974.2	933.9	892.0	852.1	817.8	782.0	746.3
-1.25°	1079.0	1062.1	1037.7	1007.9	972.1	931.8	890.2	850.7	816.4	780.8	745.2
-2.5°	1075.0	1057.1	1031.9	1001.5	965.7	925.7	884.7	846.6	812.4	777.1	741.8
-3.75°	1067.3	1047.4	1021.9	991.2	955.5	915.6	876.0	839.8	805.9	771.0	736.2
-5°	1055.5	1034.2	1008.2	976.7	940.7	902.1	864.3	830.5	796.8	762.6	728.8
-6.25°	1037.9	1016.1	989.3	957.8	922.1	885.3	850.0	818.5	785.4	752.0	719.3
-7.5°	1016.1	993.5	966.2	934.7	900.6	866.4	835.0	804.0	771.9	739.4	707.3
-8.75°	989.3	966.2	939.0	908.4	876.8	846.2	817.7	787.3	756.3	725.4	692.2
-10°	957.8	934.7	908.4	880.3	851.9	826.0	797.9	768.7	738.9	709.4	672.1
-11.25°	922.1	900.6	876.8	851.9	828.8	803.3	776.4	748.5	720.7	689.5	642.4
-12.5°	885.3	866.4	846.2	826.0	803.3	778.9	753.4	727.4	699.3	660.8	604.3
-13.75°	850.0	835.0	817.7	797.9	776.4	753.4	729.6	704.3	672.0	622.7	559.2
-15°	818.5	804.0	787.3	768.7	748.5	727.4	704.3	675.8	631.7	573.2	507.5
-16.25°	785.4	771.9	756.3	738.9	720.7	699.3	672.0	631.7	577.7	517.0	450.9
-17.5°	752.0	739.4	725.4	709.4	689.5	660.8	622.7	573.2	517.0	455.7	393.0
-18.75°	719.3	707.3	692.2	672.1	642.4	604.3	559.2	507.5	450.9	393.0	336.7
-20°	683.0	665.1	642.5	613.3	577.2	535.1	488.3	436.5	384.2	332.9	285.1
-21.25°	623.5	600.0	572.7	539.4	501.9	459.1	413.4	366.8	321.6	279.6	244.1



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 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	6.25°	7.5°	8.75°	10°	11.25°	12.5°	13.75°	15°	16.25°	17.5°	18.75°
-22.5°	544.9	520.6	492.1	458.4	421.1	382.6	342.5	302.9	268.5	239.4	219.2
-23.75°	458.7	434.5	407.4	377.4	345.0	312.5	280.8	252.1	231.7	215.2	203.1
-25°	372.9	351.7	329.4	304.0	279.7	256.1	236.9	221.1	209.6	198.9	188.8
-26.25°	296.3	281.5	265.4	247.1	234.6	221.7	211.7	202.3	193.5	184.2	174.5
-27.5°	241.4	233.9	225.1	216.4	209.3	201.6	194.4	186.5	178.2	169.3	160.7
-28.75°	212.4	207.9	202.7	197.4	191.6	185.2	178.2	170.7	163.0	155.6	147.8
-30°	193.2	189.5	185.2	180.2	174.7	168.6	162.4	156.1	149.4	142.3	134.9
-31.25°	175.4	171.9	167.7	163.3	158.7	153.7	148.1	142.1	135.7	130.2	124.9
-32.5°	158.6	155.7	152.3	148.3	143.9	139.1	133.8	129.5	125.0	120.2	115.1
-33.75°	143.1	140.3	137.0	133.4	130.3	126.9	123.1	119.1	114.7	110.1	105.1
-35°	129.2	127.2	124.9	122.3	119.3	116.0	112.4	108.5	104.3	99.9	95.1
-36.25°	117.7	115.9	113.7	111.1	108.3	105.1	101.7	97.9	93.9	89.6	85.4
-37.5°	106.3	104.5	102.3	99.9	97.2	94.2	90.8	87.2	84.2	80.9	77.5
-38.75°	94.7	93.0	91.0	88.7	86.3	84.0	81.5	78.8	75.9	72.8	69.6
-40°	84.1	82.8	81.3	79.5	77.6	75.4	73.0	70.4	67.7	64.9	61.9
-41.25°	75.1	73.9	72.4	70.7	68.9	66.9	64.7	62.4	59.8	57.1	54.2
-42.5°	66.2	65.1	63.8	62.3	60.6	58.7	56.6	54.3	51.9	50.2	48.6
-43.75°	57.7	56.6	55.4	53.9	52.3	50.9	49.7	48.5	47.1	45.7	44.1
-45°	50.1	49.5	48.8	48.0	47.1	46.1	45.0	43.8	42.5	41.4	40.9
-46.25°	45.2	44.6	44.0	43.2	42.3	41.5	41.1	40.7	40.3	39.8	39.3
-47.5°	41.1	40.9	40.7	40.4	40.1	39.8	39.5	39.1	38.7	38.3	37.9
-48.75°	39.4	39.2	39.0	38.8	38.5	38.2	38.0	37.8	37.6	37.4	37.2
-50°	37.9	37.8	37.7	37.6	37.5	37.3	37.2	37.0	36.8	36.6	36.4
-51.25°	37.1	37.0	36.9	36.8	36.7	36.5	36.4	36.2	36.0	35.8	35.6
-52.5°	36.2	36.1	36.0	35.9	35.8	35.7	35.5	35.3	35.1	35.0	34.7
-53.75°	35.3	35.2	35.1	35.0	34.9	34.8	34.6	34.5	34.3	34.0	33.8
-55°	34.4	34.3	34.2	34.1	34.0	33.8	33.6	33.5	33.3	33.1	32.8
-56.25°	33.4	33.3	33.2	33.1	32.9	32.8	32.6	32.5	32.3	32.1	32.0
-57.5°	32.3	32.3	32.2	32.1	32.0	31.9	31.8	31.6	31.5	31.3	31.1
-58.75°	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.6	30.3	30.1
-60°	30.5	30.4	30.3	30.2	30.0	29.9	29.7	29.5	29.3	29.1	28.9
-61.25°	29.2	29.1	29.0	28.9	28.8	28.6	28.5	28.3	28.1	27.9	27.6
-62.5°	27.9	27.8	27.7	27.6	27.4	27.3	27.1	26.9	26.7	26.5	26.2
-63.75°	26.4	26.3	26.2	26.1	26.0	25.8	25.6	25.4	25.3	25.0	24.7
-65°	24.9	24.7	24.6	24.5	24.3	24.1	23.9	23.7	23.4	23.2	22.9
-66.25°	22.9	22.8	22.7	22.6	22.4	22.2	22.0	21.8	21.6	21.3	21.1
-67.5°	21.0	21.0	20.9	20.8	20.7	20.5	20.4	20.2	20.1	19.9	19.7
-68.75°	19.5	19.5	19.4	19.3	19.2	19.1	18.9	18.8	18.6	18.5	18.3
-70°	18.0	18.0	17.9	17.8	17.6	17.5	17.4	17.2	17.0	16.9	16.7
-71.25°	16.3	16.2	16.1	16.0	15.9	15.8	15.7	15.5	15.4	15.2	15.0
-72.5°	14.6	14.6	14.6	14.5	14.5	14.4	14.3	14.3	14.2	14.1	14.0
-73.75°	13.8	13.8	13.7	13.7	13.6	13.6	13.5	13.5	13.4	13.3	13.2
-75°	12.9	12.9	12.9	12.8	12.8	12.8	12.7	12.6	12.6	12.5	12.4
-76.25°	12.1	12.1	12.0	12.0	12.0	11.9	11.9	11.8	11.8	11.7	11.6
-77.5°	11.2	11.2	11.2	11.2	11.1	11.1	11.0	11.0	10.9	10.9	10.8



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 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	6.25°	7.5°	8.75°	10°	11.25°	12.5°	13.75°	15°	16.25°	17.5°	18.75°
-78.75°	10.4	10.3	10.3	10.3	10.2	10.2	10.2	10.1	10.1	10.0	10.0
-80°	9.4	9.4	9.4	9.4	9.3	9.3	9.3	9.2	9.2	9.1	9.0
-81.25°	8.4	8.4	8.4	8.3	8.3	8.3	8.2	8.2	8.2	8.1	8.1
-82.5°	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.1	7.1	7.0	7.0
-83.75°	6.1	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.8	5.8
-85°	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.5
-86.25°	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3
-87.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1
-88.75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9
87.5°	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
86.25°	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
85°	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.1	4.0	4.0
83.75°	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.3	5.2	5.2	5.1
82.5°	6.9	6.9	6.8	6.7	6.7	6.6	6.5	6.4	6.4	6.3	6.2
81.25°	8.0	7.9	7.9	7.8	7.8	7.7	7.6	7.5	7.5	7.4	7.3
80°	9.0	8.9	8.9	8.8	8.7	8.6	8.5	8.5	8.4	8.3	8.2
78.75°	9.9	9.8	9.8	9.7	9.6	9.6	9.5	9.4	9.3	9.2	9.1
77.5°	10.7	10.7	10.6	10.5	10.4	10.4	10.3	10.2	10.1	10.0	9.9
76.25°	11.6	11.5	11.4	11.3	11.3	11.2	11.1	11.0	10.9	10.7	10.6
75°	12.4	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.6	11.5	11.4
73.75°	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.3	12.2	12.1
72.5°	14.0	13.9	13.8	13.7	13.6	13.4	13.3	13.2	13.1	12.9	12.8
71.25°	14.8	14.7	14.5	14.4	14.3	14.2	14.1	13.9	13.8	13.6	13.5
70°	16.4	16.2	16.0	15.7	15.5	15.2	14.9	14.7	14.5	14.4	14.2
68.75°	18.1	17.8	17.6	17.3	17.0	16.8	16.5	16.1	15.8	15.5	15.1
67.5°	19.5	19.3	19.0	18.8	18.6	18.3	18.0	17.6	17.3	16.9	16.6
66.25°	20.9	20.7	20.4	20.2	19.9	19.6	19.3	19.0	18.7	18.4	18.0
65°	22.6	22.3	22.0	21.6	21.2	20.9	20.6	20.3	20.0	19.6	19.3
63.75°	24.4	24.1	23.7	23.4	23.0	22.6	22.1	21.7	21.2	20.9	20.5
62.5°	26.0	25.7	25.4	25.1	24.7	24.3	23.8	23.4	22.9	22.4	21.9
61.25°	27.3	27.1	26.8	26.4	26.1	25.8	25.4	25.0	24.5	24.0	23.4
60°	28.6	28.4	28.1	27.8	27.4	27.1	26.7	26.3	25.9	25.5	25.0
58.75°	29.8	29.6	29.3	29.0	28.7	28.3	28.0	27.6	27.1	26.7	26.2
57.5°	30.9	30.7	30.5	30.1	29.8	29.5	29.1	28.7	28.3	27.9	27.4
56.25°	31.8	31.6	31.3	31.1	30.9	30.6	30.2	29.8	29.4	29.0	28.6
55°	32.6	32.4	32.1	31.9	31.7	31.4	31.1	30.8	30.5	30.0	29.6
53.75°	33.6	33.3	33.0	32.7	32.4	32.2	31.9	31.6	31.3	31.0	30.6
52.5°	34.5	34.2	33.9	33.6	33.3	33.0	32.7	32.3	32.0	31.7	31.3
51.25°	35.3	35.1	34.8	34.6	34.2	33.9	33.5	33.2	32.8	32.4	32.0
50°	36.2	35.9	35.6	35.3	35.1	34.7	34.4	34.0	33.6	33.2	32.8
48.75°	36.9	36.7	36.4	36.1	35.8	35.5	35.2	34.8	34.4	34.0	33.6
47.5°	37.7	37.4	37.2	36.9	36.6	36.3	35.9	35.6	35.2	34.8	34.4
46.25°	38.8	38.3	37.9	37.6	37.3	37.0	36.6	36.3	35.9	35.5	35.1
45°	40.3	39.8	39.2	38.6	38.0	37.7	37.3	37.0	36.6	36.2	35.8
43.75°	42.5	41.3	40.6	40.0	39.3	38.6	38.0	37.6	37.2	36.8	36.4
42.5°	46.9	45.1	43.2	41.4	40.7	40.0	39.2	38.5	37.9	37.5	37.0
41.25°	51.3	49.4	47.5	45.4	43.3	41.4	40.6	39.8	39.0	38.1	37.7
40°	58.7	55.4	51.9	49.6	47.4	45.1	42.7	41.1	40.2	39.3	38.4
38.75°	66.2	62.7	59.1	55.3	51.4	49.0	46.6	44.0	41.5	40.6	39.6
37.5°	73.9	70.1	66.3	62.3	58.2	54.0	50.4	47.8	45.1	42.3	40.8
36.25°	81.7	77.8	73.6	69.3	65.1	60.7	56.1	51.5	48.7	45.8	42.9
35°	90.1	85.3	81.1	76.6	72.0	67.3	62.6	57.8	52.8	49.3	46.3

REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
33.75°	99.9	94.5	88.8	83.8	79.0	74.1	69.0	64.0	58.8	53.6	49.6
32.5°	109.7	104.0	98.1	92.0	85.9	80.8	75.5	70.1	64.8	59.4	53.9
31.25°	119.3	113.4	107.3	101.0	94.4	87.6	82.0	76.4	70.7	65.1	59.4
30°	128.7	122.7	116.4	109.8	103.0	96.0	88.8	82.6	76.7	70.7	64.8
28.75°	139.7	131.8	125.3	118.5	111.5	104.2	96.8	89.2	82.6	76.4	70.1
27.5°	152.2	143.3	134.1	127.0	119.8	112.3	104.7	96.8	88.8	82.0	75.5
26.25°	164.5	155.3	145.8	135.9	127.9	120.2	112.3	104.2	96.0	87.6	80.8
25°	178.3	167.3	157.2	147.0	136.5	127.9	119.8	111.5	103.0	94.4	85.9
23.75°	191.9	180.6	168.8	157.8	147.0	135.9	127.0	118.5	109.8	101.0	92.0
22.5°	205.8	193.5	181.3	168.8	157.2	145.8	134.1	125.3	116.4	107.3	98.1
21.25°	222.3	206.8	193.5	180.6	167.3	155.3	143.3	131.8	122.7	113.4	104.0
20°	245.8	222.3	205.8	191.9	178.3	164.5	152.2	139.7	128.7	119.3	109.7
18.75°	285.1	244.1	219.2	203.1	188.8	174.5	160.7	147.8	134.9	124.9	115.1
17.5°	332.9	279.6	239.4	215.2	198.9	184.2	169.3	155.6	142.3	130.2	120.2
16.25°	384.2	321.6	268.5	231.7	209.6	193.5	178.2	163.0	149.4	135.7	125.0
15°	436.5	366.8	302.9	252.1	221.1	202.3	186.5	170.7	156.1	142.1	129.5
13.75°	488.3	413.4	342.5	280.8	236.9	211.7	194.4	178.2	162.4	148.1	133.8
12.5°	535.1	459.1	382.6	312.5	256.1	221.7	201.6	185.2	168.6	153.7	139.1
11.25°	577.2	501.9	421.1	345.0	279.7	234.6	209.3	191.6	174.7	158.7	143.9
10°	613.3	539.4	458.4	377.4	304.0	247.1	216.4	197.4	180.2	163.3	148.3
8.75°	642.5	572.7	492.1	407.4	329.4	265.4	225.1	202.7	185.2	167.7	152.3
7.5°	665.1	600.0	520.6	434.5	351.7	281.5	233.9	207.9	189.5	171.9	155.7
6.25°	683.0	623.5	544.9	458.7	372.9	296.3	241.4	212.4	193.2	175.4	158.6
5°	693.2	640.3	565.1	478.7	390.7	311.2	249.3	216.1	196.2	178.3	161.0
3.75°	701.3	652.2	579.7	494.4	404.7	323.0	257.8	219.2	198.6	180.6	162.9
2.5°	707.2	660.9	590.1	505.3	414.7	331.4	263.9	222.6	200.3	182.2	164.2
1.25°	710.7	666.1	596.4	511.8	420.8	336.5	267.5	224.6	201.4	183.2	165.0
0°	711.9	667.9	598.5	513.9	422.8	338.2	268.8	225.2	201.7	183.5	165.3
-1.25°	710.7	666.1	596.4	511.8	420.8	336.5	267.5	224.6	201.4	183.2	165.0
-2.5°	707.2	660.9	590.1	505.3	414.7	331.4	263.9	222.6	200.3	182.2	164.2
-3.75°	701.3	652.2	579.7	494.4	404.7	323.0	257.8	219.2	198.6	180.6	162.9
-5°	693.2	640.3	565.1	478.7	390.7	311.2	249.3	216.1	196.2	178.3	161.0
-6.25°	683.0	623.5	544.9	458.7	372.9	296.3	241.4	212.4	193.2	175.4	158.6
-7.5°	665.1	600.0	520.6	434.5	351.7	281.5	233.9	207.9	189.5	171.9	155.7
-8.75°	642.5	572.7	492.1	407.4	329.4	265.4	225.1	202.7	185.2	167.7	152.3
-10°	613.3	539.4	458.4	377.4	304.0	247.1	216.4	197.4	180.2	163.3	148.3
-11.25°	577.2	501.9	421.1	345.0	279.7	234.6	209.3	191.6	174.7	158.7	143.9
-12.5°	535.1	459.1	382.6	312.5	256.1	221.7	201.6	185.2	168.6	153.7	139.1
-13.75°	488.3	413.4	342.5	280.8	236.9	211.7	194.4	178.2	162.4	148.1	133.8
-15°	436.5	366.8	302.9	252.1	221.1	202.3	186.5	170.7	156.1	142.1	129.5
-16.25°	384.2	321.6	268.5	231.7	209.6	193.5	178.2	163.0	149.4	135.7	125.0
-17.5°	332.9	279.6	239.4	215.2	198.9	184.2	169.3	155.6	142.3	130.2	120.2
-18.75°	285.1	244.1	219.2	203.1	188.8	174.5	160.7	147.8	134.9	124.9	115.1
-20°	245.8	222.3	205.8	191.9	178.3	164.5	152.2	139.7	128.7	119.3	109.7
-21.25°	222.3	206.8	193.5	180.6	167.3	155.3	143.3	131.8	122.7	113.4	104.0





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**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
-22.5°	205.8	193.5	181.3	168.8	157.2	145.8	134.1	125.3	116.4	107.3	98.1
-23.75°	191.9	180.6	168.8	157.8	147.0	135.9	127.0	118.5	109.8	101.0	92.0
-25°	178.3	167.3	157.2	147.0	136.5	127.9	119.8	111.5	103.0	94.4	85.9
-26.25°	164.5	155.3	145.8	135.9	127.9	120.2	112.3	104.2	96.0	87.6	80.8
-27.5°	152.2	143.3	134.1	127.0	119.8	112.3	104.7	96.8	88.8	82.0	75.5
-28.75°	139.7	131.8	125.3	118.5	111.5	104.2	96.8	89.2	82.6	76.4	70.1
-30°	128.7	122.7	116.4	109.8	103.0	96.0	88.8	82.6	76.7	70.7	64.8
-31.25°	119.3	113.4	107.3	101.0	94.4	87.6	82.0	76.4	70.7	65.1	59.4
-32.5°	109.7	104.0	98.1	92.0	85.9	80.8	75.5	70.1	64.8	59.4	53.9
-33.75°	99.9	94.5	88.8	83.8	79.0	74.1	69.0	64.0	58.8	53.6	49.6
-35°	90.1	85.3	81.1	76.6	72.0	67.3	62.6	57.8	52.8	49.3	46.3
-36.25°	81.7	77.8	73.6	69.3	65.1	60.7	56.1	51.5	48.7	45.8	42.9
-37.5°	73.9	70.1	66.3	62.3	58.2	54.0	50.4	47.8	45.1	42.3	40.8
-38.75°	66.2	62.7	59.1	55.3	51.4	49.0	46.6	44.0	41.5	40.6	39.6
-40°	58.7	55.4	51.9	49.6	47.4	45.1	42.7	41.1	40.2	39.3	38.4
-41.25°	51.3	49.4	47.5	45.4	43.3	41.4	40.6	39.8	39.0	38.1	37.7
-42.5°	46.9	45.1	43.2	41.4	40.7	40.0	39.2	38.5	37.9	37.5	37.0
-43.75°	42.5	41.3	40.6	40.0	39.3	38.6	38.0	37.6	37.2	36.8	36.4
-45°	40.3	39.8	39.2	38.6	38.0	37.7	37.3	37.0	36.6	36.2	35.8
-46.25°	38.8	38.3	37.9	37.6	37.3	37.0	36.6	36.3	35.9	35.5	35.1
-47.5°	37.7	37.4	37.2	36.9	36.6	36.3	35.9	35.6	35.2	34.8	34.4
-48.75°	36.9	36.7	36.4	36.1	35.8	35.5	35.2	34.8	34.4	34.0	33.6
-50°	36.2	35.9	35.6	35.3	35.1	34.7	34.4	34.0	33.6	33.2	32.8
-51.25°	35.3	35.1	34.8	34.6	34.2	33.9	33.5	33.2	32.8	32.4	32.0
-52.5°	34.5	34.2	33.9	33.6	33.3	33.0	32.7	32.3	32.0	31.7	31.3
-53.75°	33.6	33.3	33.0	32.7	32.4	32.2	31.9	31.6	31.3	31.0	30.6
-55°	32.6	32.4	32.1	31.9	31.7	31.4	31.1	30.8	30.5	30.0	29.6
-56.25°	31.8	31.6	31.3	31.1	30.9	30.6	30.2	29.8	29.4	29.0	28.6
-57.5°	30.9	30.7	30.5	30.1	29.8	29.5	29.1	28.7	28.3	27.9	27.4
-58.75°	29.8	29.6	29.3	29.0	28.7	28.3	28.0	27.6	27.1	26.7	26.2
-60°	28.6	28.4	28.1	27.8	27.4	27.1	26.7	26.3	25.9	25.5	25.0
-61.25°	27.3	27.1	26.8	26.4	26.1	25.8	25.4	25.0	24.5	24.0	23.4
-62.5°	26.0	25.7	25.4	25.1	24.7	24.3	23.8	23.4	22.9	22.4	21.9
-63.75°	24.4	24.1	23.7	23.4	23.0	22.6	22.1	21.7	21.2	20.9	20.5
-65°	22.6	22.3	22.0	21.6	21.2	20.9	20.6	20.3	20.0	19.6	19.3
-66.25°	20.9	20.7	20.4	20.2	19.9	19.6	19.3	19.0	18.7	18.4	18.0
-67.5°	19.5	19.3	19.0	18.8	18.6	18.3	18.0	17.6	17.3	16.9	16.6
-68.75°	18.1	17.8	17.6	17.3	17.0	16.8	16.5	16.1	15.8	15.5	15.1
-70°	16.4	16.2	16.0	15.7	15.5	15.2	14.9	14.7	14.5	14.4	14.2
-71.25°	14.8	14.7	14.5	14.4	14.3	14.2	14.1	13.9	13.8	13.6	13.5
-72.5°	14.0	13.9	13.8	13.7	13.6	13.4	13.3	13.2	13.1	12.9	12.8
-73.75°	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.3	12.2	12.1
-75°	12.4	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.6	11.5	11.4
-76.25°	11.6	11.5	11.4	11.3	11.3	11.2	11.1	11.0	10.9	10.7	10.6
-77.5°	10.7	10.7	10.6	10.5	10.4	10.4	10.3	10.2	10.1	10.0	9.9



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**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
-78.75°	9.9	9.8	9.8	9.7	9.6	9.6	9.5	9.4	9.3	9.2	9.1
-80°	9.0	8.9	8.9	8.8	8.7	8.6	8.5	8.5	8.4	8.3	8.2
-81.25°	8.0	7.9	7.9	7.8	7.8	7.7	7.6	7.5	7.5	7.4	7.3
-82.5°	6.9	6.9	6.8	6.7	6.7	6.6	6.5	6.4	6.4	6.3	6.2
-83.75°	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.3	5.2	5.2	5.1
-85°	4.5	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.1	4.0	4.0
-86.25°	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
-87.5°	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
-88.75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5
86.25°	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.4	2.3
85°	3.9	3.9	3.8	3.7	3.7	3.6	3.5	3.4	3.4	3.3	3.2
83.75°	5.0	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
82.5°	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.3	5.2	5.1	5.0
81.25°	7.2	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.9
80°	8.1	8.0	7.9	7.8	7.6	7.5	7.4	7.2	7.1	6.9	6.8
78.75°	8.9	8.8	8.7	8.6	8.5	8.3	8.2	8.0	7.9	7.8	7.6
77.5°	9.8	9.7	9.5	9.4	9.3	9.1	9.0	8.8	8.7	8.5	8.3
76.25°	10.5	10.4	10.3	10.1	10.0	9.9	9.7	9.6	9.4	9.2	9.0
75°	11.2	11.1	11.0	10.8	10.7	10.5	10.4	10.2	10.1	9.9	9.7
73.75°	11.9	11.8	11.7	11.5	11.4	11.2	11.0	10.9	10.7	10.5	10.3
72.5°	12.6	12.5	12.3	12.2	12.0	11.9	11.7	11.5	11.3	11.1	10.9
71.25°	13.3	13.2	13.0	12.8	12.7	12.5	12.3	12.1	11.9	11.7	11.5
70°	14.0	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3	12.1
68.75°	14.8	14.5	14.4	14.2	14.0	13.8	13.6	13.3	13.1	12.9	12.7
67.5°	16.2	15.8	15.4	14.9	14.6	14.4	14.2	13.9	13.7	13.5	13.2
66.25°	17.6	17.2	16.7	16.3	15.8	15.4	14.9	14.5	14.3	14.1	13.8
65°	18.9	18.5	18.1	17.6	17.1	16.6	16.1	15.6	15.1	14.6	14.4
63.75°	20.1	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.3	15.7	15.1
62.5°	21.3	20.9	20.4	20.0	19.5	19.1	18.6	18.1	17.5	16.9	16.3
61.25°	22.9	22.3	21.7	21.1	20.6	20.1	19.6	19.1	18.6	18.0	17.4
60°	24.4	23.8	23.2	22.6	21.9	21.2	20.7	20.2	19.6	19.0	18.5
58.75°	25.8	25.3	24.7	24.0	23.3	22.6	21.9	21.2	20.6	20.0	19.4
57.5°	26.9	26.4	25.9	25.4	24.7	24.0	23.3	22.5	21.7	21.0	20.4
56.25°	28.1	27.6	27.0	26.5	25.9	25.3	24.6	23.8	23.0	22.2	21.3
55°	29.1	28.6	28.2	27.6	27.0	26.4	25.8	25.1	24.3	23.4	22.6
53.75°	30.1	29.6	29.1	28.6	28.1	27.4	26.8	26.1	25.4	24.7	23.8
52.5°	31.0	30.6	30.1	29.5	29.0	28.4	27.8	27.1	26.4	25.7	24.9
51.25°	31.7	31.3	30.9	30.5	29.9	29.3	28.7	28.1	27.4	26.6	25.9
50°	32.4	32.0	31.6	31.2	30.8	30.2	29.6	28.9	28.3	27.5	26.8
48.75°	33.1	32.7	32.2	31.8	31.4	30.9	30.4	29.7	29.1	28.4	27.7
47.5°	33.9	33.4	32.9	32.4	32.0	31.5	31.1	30.6	29.9	29.2	28.5
46.25°	34.7	34.2	33.7	33.1	32.6	32.1	31.7	31.2	30.7	29.9	29.2
45°	35.3	34.9	34.4	33.9	33.3	32.8	32.2	31.7	31.2	30.7	29.9
43.75°	36.0	35.5	35.1	34.6	34.0	33.4	32.8	32.3	31.7	31.2	30.7
42.5°	36.6	36.1	35.7	35.2	34.7	34.1	33.5	32.9	32.3	31.7	31.2
41.25°	37.2	36.8	36.3	35.8	35.2	34.7	34.1	33.5	32.8	32.2	31.7
40°	37.8	37.3	36.8	36.3	35.8	35.3	34.7	34.1	33.4	32.8	32.1
38.75°	38.7	37.9	37.4	36.9	36.4	35.8	35.2	34.7	34.0	33.3	32.6
37.5°	39.8	38.8	37.9	37.4	36.9	36.3	35.8	35.2	34.6	33.9	33.1
36.25°	41.0	39.9	38.9	37.9	37.4	36.8	36.3	35.7	35.1	34.4	33.7
35°	43.2	41.0	39.9	38.8	37.9	37.3	36.8	36.1	35.5	34.9	34.2



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**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
33.75°	46.4	43.2	41.0	39.8	38.7	37.8	37.2	36.6	36.0	35.3	34.7
32.5°	49.6	46.3	42.9	40.8	39.6	38.4	37.7	37.0	36.4	35.8	35.1
31.25°	53.6	49.3	45.8	42.3	40.6	39.3	38.1	37.5	36.8	36.2	35.5
30°	58.8	52.8	48.7	45.1	41.5	40.2	39.0	37.9	37.2	36.6	35.9
28.75°	64.0	57.8	51.5	47.8	44.0	41.1	39.8	38.5	37.6	37.0	36.3
27.5°	69.0	62.6	56.1	50.4	46.6	42.7	40.6	39.2	38.0	37.3	36.6
26.25°	74.1	67.3	60.7	54.0	49.0	45.1	41.4	40.0	38.6	37.7	37.0
25°	79.0	72.0	65.1	58.2	51.4	47.4	43.3	40.7	39.3	38.0	37.3
23.75°	83.8	76.6	69.3	62.3	55.3	49.6	45.4	41.4	40.0	38.6	37.6
22.5°	88.8	81.1	73.6	66.3	59.1	51.9	47.5	43.2	40.6	39.2	37.9
21.25°	94.5	85.3	77.8	70.1	62.7	55.4	49.4	45.1	41.3	39.8	38.3
20°	99.9	90.1	81.7	73.9	66.2	58.7	51.3	46.9	42.5	40.3	38.8
18.75°	105.1	95.1	85.4	77.5	69.6	61.9	54.2	48.6	44.1	40.9	39.3
17.5°	110.1	99.9	89.6	80.9	72.8	64.9	57.1	50.2	45.7	41.4	39.8
16.25°	114.7	104.3	93.9	84.2	75.9	67.7	59.8	51.9	47.1	42.5	40.3
15°	119.1	108.5	97.9	87.2	78.8	70.4	62.4	54.3	48.5	43.8	40.7
13.75°	123.1	112.4	101.7	90.8	81.5	73.0	64.7	56.6	49.7	45.0	41.1
12.5°	126.9	116.0	105.1	94.2	84.0	75.4	66.9	58.7	50.9	46.1	41.5
11.25°	130.3	119.3	108.3	97.2	86.3	77.6	68.9	60.6	52.3	47.1	42.3
10°	133.4	122.3	111.1	99.9	88.7	79.5	70.7	62.3	53.9	48.0	43.2
8.75°	137.0	124.9	113.7	102.3	91.0	81.3	72.4	63.8	55.4	48.8	44.0
7.5°	140.3	127.2	115.9	104.5	93.0	82.8	73.9	65.1	56.6	49.5	44.6
6.25°	143.1	129.2	117.7	106.3	94.7	84.1	75.1	66.2	57.7	50.1	45.2
5°	145.4	130.8	119.3	107.7	96.2	85.1	76.1	67.2	58.6	50.6	45.7
3.75°	147.2	132.1	120.5	108.9	97.3	85.9	76.9	67.9	59.3	51.0	46.0
2.5°	148.5	133.0	121.4	109.7	98.1	86.5	77.4	68.4	59.8	51.3	46.3
1.25°	149.2	133.5	121.9	110.2	98.5	86.9	77.8	68.7	60.1	51.4	46.4
0°	149.5	133.7	122.1	110.4	98.7	87.0	77.9	68.8	60.2	51.5	46.5
-1.25°	149.2	133.5	121.9	110.2	98.5	86.9	77.8	68.7	60.1	51.4	46.4
-2.5°	148.5	133.0	121.4	109.7	98.1	86.5	77.4	68.4	59.8	51.3	46.3
-3.75°	147.2	132.1	120.5	108.9	97.3	85.9	76.9	67.9	59.3	51.0	46.0
-5°	145.4	130.8	119.3	107.7	96.2	85.1	76.1	67.2	58.6	50.6	45.7
-6.25°	143.1	129.2	117.7	106.3	94.7	84.1	75.1	66.2	57.7	50.1	45.2
-7.5°	140.3	127.2	115.9	104.5	93.0	82.8	73.9	65.1	56.6	49.5	44.6
-8.75°	137.0	124.9	113.7	102.3	91.0	81.3	72.4	63.8	55.4	48.8	44.0
-10°	133.4	122.3	111.1	99.9	88.7	79.5	70.7	62.3	53.9	48.0	43.2
-11.25°	130.3	119.3	108.3	97.2	86.3	77.6	68.9	60.6	52.3	47.1	42.3
-12.5°	126.9	116.0	105.1	94.2	84.0	75.4	66.9	58.7	50.9	46.1	41.5
-13.75°	123.1	112.4	101.7	90.8	81.5	73.0	64.7	56.6	49.7	45.0	41.1
-15°	119.1	108.5	97.9	87.2	78.8	70.4	62.4	54.3	48.5	43.8	40.7
-16.25°	114.7	104.3	93.9	84.2	75.9	67.7	59.8	51.9	47.1	42.5	40.3
-17.5°	110.1	99.9	89.6	80.9	72.8	64.9	57.1	50.2	45.7	41.4	39.8
-18.75°	105.1	95.1	85.4	77.5	69.6	61.9	54.2	48.6	44.1	40.9	39.3
-20°	99.9	90.1	81.7	73.9	66.2	58.7	51.3	46.9	42.5	40.3	38.8
-21.25°	94.5	85.3	77.8	70.1	62.7	55.4	49.4	45.1	41.3	39.8	38.3



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**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
-22.5°	88.8	81.1	73.6	66.3	59.1	51.9	47.5	43.2	40.6	39.2	37.9
-23.75°	83.8	76.6	69.3	62.3	55.3	49.6	45.4	41.4	40.0	38.6	37.6
-25°	79.0	72.0	65.1	58.2	51.4	47.4	43.3	40.7	39.3	38.0	37.3
-26.25°	74.1	67.3	60.7	54.0	49.0	45.1	41.4	40.0	38.6	37.7	37.0
-27.5°	69.0	62.6	56.1	50.4	46.6	42.7	40.6	39.2	38.0	37.3	36.6
-28.75°	64.0	57.8	51.5	47.8	44.0	41.1	39.8	38.5	37.6	37.0	36.3
-30°	58.8	52.8	48.7	45.1	41.5	40.2	39.0	37.9	37.2	36.6	35.9
-31.25°	53.6	49.3	45.8	42.3	40.6	39.3	38.1	37.5	36.8	36.2	35.5
-32.5°	49.6	46.3	42.9	40.8	39.6	38.4	37.7	37.0	36.4	35.8	35.1
-33.75°	46.4	43.2	41.0	39.8	38.7	37.8	37.2	36.6	36.0	35.3	34.7
-35°	43.2	41.0	39.9	38.8	37.9	37.3	36.8	36.1	35.5	34.9	34.2
-36.25°	41.0	39.9	38.9	37.9	37.4	36.8	36.3	35.7	35.1	34.4	33.7
-37.5°	39.8	38.8	37.9	37.4	36.9	36.3	35.8	35.2	34.6	33.9	33.1
-38.75°	38.7	37.9	37.4	36.9	36.4	35.8	35.2	34.7	34.0	33.3	32.6
-40°	37.8	37.3	36.8	36.3	35.8	35.3	34.7	34.1	33.4	32.8	32.1
-41.25°	37.2	36.8	36.3	35.8	35.2	34.7	34.1	33.5	32.8	32.2	31.7
-42.5°	36.6	36.1	35.7	35.2	34.7	34.1	33.5	32.9	32.3	31.7	31.2
-43.75°	36.0	35.5	35.1	34.6	34.0	33.4	32.8	32.3	31.7	31.2	30.7
-45°	35.3	34.9	34.4	33.9	33.3	32.8	32.2	31.7	31.2	30.7	29.9
-46.25°	34.7	34.2	33.7	33.1	32.6	32.1	31.7	31.2	30.7	29.9	29.2
-47.5°	33.9	33.4	32.9	32.4	32.0	31.5	31.1	30.6	29.9	29.2	28.5
-48.75°	33.1	32.7	32.2	31.8	31.4	30.9	30.4	29.7	29.1	28.4	27.7
-50°	32.4	32.0	31.6	31.2	30.8	30.2	29.6	28.9	28.3	27.5	26.8
-51.25°	31.7	31.3	30.9	30.5	29.9	29.3	28.7	28.1	27.4	26.6	25.9
-52.5°	31.0	30.6	30.1	29.5	29.0	28.4	27.8	27.1	26.4	25.7	24.9
-53.75°	30.1	29.6	29.1	28.6	28.1	27.4	26.8	26.1	25.4	24.7	23.8
-55°	29.1	28.6	28.2	27.6	27.0	26.4	25.8	25.1	24.3	23.4	22.6
-56.25°	28.1	27.6	27.0	26.5	25.9	25.3	24.6	23.8	23.0	22.2	21.3
-57.5°	26.9	26.4	25.9	25.4	24.7	24.0	23.3	22.5	21.7	21.0	20.4
-58.75°	25.8	25.3	24.7	24.0	23.3	22.6	21.9	21.2	20.6	20.0	19.4
-60°	24.4	23.8	23.2	22.6	21.9	21.2	20.7	20.2	19.6	19.0	18.5
-61.25°	22.9	22.3	21.7	21.1	20.6	20.1	19.6	19.1	18.6	18.0	17.4
-62.5°	21.3	20.9	20.4	20.0	19.5	19.1	18.6	18.1	17.5	16.9	16.3
-63.75°	20.1	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.3	15.7	15.1
-65°	18.9	18.5	18.1	17.6	17.1	16.6	16.1	15.6	15.1	14.6	14.4
-66.25°	17.6	17.2	16.7	16.3	15.8	15.4	14.9	14.5	14.3	14.1	13.8
-67.5°	16.2	15.8	15.4	14.9	14.6	14.4	14.2	13.9	13.7	13.5	13.2
-68.75°	14.8	14.5	14.4	14.2	14.0	13.8	13.6	13.3	13.1	12.9	12.7
-70°	14.0	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3	12.1
-71.25°	13.3	13.2	13.0	12.8	12.7	12.5	12.3	12.1	11.9	11.7	11.5
-72.5°	12.6	12.5	12.3	12.2	12.0	11.9	11.7	11.5	11.3	11.1	10.9
-73.75°	11.9	11.8	11.7	11.5	11.4	11.2	11.0	10.9	10.7	10.5	10.3
-75°	11.2	11.1	11.0	10.8	10.7	10.5	10.4	10.2	10.1	9.9	9.7
-76.25°	10.5	10.4	10.3	10.1	10.0	9.9	9.7	9.6	9.4	9.2	9.0
-77.5°	9.8	9.7	9.5	9.4	9.3	9.1	9.0	8.8	8.7	8.5	8.3



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**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
-78.75°	8.9	8.8	8.7	8.6	8.5	8.3	8.2	8.0	7.9	7.8	7.6
-80°	8.1	8.0	7.9	7.8	7.6	7.5	7.4	7.2	7.1	6.9	6.8
-81.25°	7.2	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.9
-82.5°	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.3	5.2	5.1	5.0
-83.75°	5.0	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
-85°	3.9	3.9	3.8	3.7	3.7	3.6	3.5	3.4	3.4	3.3	3.2
-86.25°	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.4	2.3
-87.5°	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5
-88.75°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5
87.5°	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1
86.25°	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6
85°	3.1	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2
83.75°	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.8
82.5°	4.9	4.7	4.6	4.5	4.3	4.2	4.1	3.9	3.8	3.6	3.5
81.25°	5.7	5.6	5.4	5.3	5.1	5.0	4.8	4.6	4.5	4.3	4.1
80°	6.6	6.4	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.0	4.8
78.75°	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.6	5.4
77.5°	8.2	8.0	7.8	7.6	7.5	7.2	7.0	6.8	6.5	6.3	6.1
76.25°	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7
75°	9.6	9.4	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.3
73.75°	10.1	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9
72.5°	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.4
71.25°	11.3	11.1	10.9	10.7	10.4	10.2	9.9	9.7	9.5	9.2	8.9
70°	11.9	11.7	11.4	11.2	11.0	10.7	10.4	10.2	9.9	9.7	9.4
68.75°	12.4	12.2	12.0	11.7	11.5	11.2	10.9	10.7	10.4	10.1	9.8
67.5°	13.0	12.7	12.5	12.2	12.0	11.7	11.4	11.1	10.8	10.5	10.2
66.25°	13.5	13.3	13.0	12.7	12.5	12.2	11.9	11.6	11.3	11.0	10.7
65°	14.1	13.8	13.5	13.2	12.9	12.6	12.3	12.0	11.7	11.4	11.1
63.75°	14.6	14.3	14.0	13.7	13.4	13.1	12.8	12.5	12.1	11.8	11.5
62.5°	15.6	15.0	14.5	14.2	13.9	13.6	13.2	12.9	12.6	12.2	11.9
61.25°	16.7	16.1	15.4	14.7	14.4	14.0	13.7	13.3	13.0	12.6	12.3
60°	17.8	17.1	16.4	15.7	15.0	14.5	14.1	13.8	13.4	13.0	12.6
58.75°	18.8	18.2	17.5	16.7	16.0	15.2	14.6	14.2	13.8	13.4	13.0
57.5°	19.7	19.1	18.4	17.7	16.9	16.1	15.3	14.6	14.2	13.8	13.4
56.25°	20.7	20.0	19.3	18.6	17.9	17.1	16.2	15.4	14.6	14.2	13.8
55°	21.7	20.9	20.2	19.4	18.7	18.0	17.1	16.2	15.3	14.6	14.1
53.75°	22.8	21.9	21.0	20.3	19.5	18.8	18.0	17.1	16.1	15.2	14.5
52.5°	24.0	23.0	22.0	21.1	20.3	19.5	18.7	17.9	16.9	16.0	15.0
51.25°	25.1	24.1	23.1	22.1	21.1	20.3	19.4	18.6	17.7	16.7	15.7
50°	26.0	25.2	24.2	23.1	22.0	21.0	20.2	19.3	18.4	17.5	16.4
48.75°	26.8	26.0	25.2	24.1	23.0	21.9	20.9	20.0	19.1	18.2	17.1
47.5°	27.7	26.8	26.0	25.1	24.0	22.8	21.7	20.7	19.7	18.8	17.8
46.25°	28.5	27.7	26.8	25.9	24.9	23.8	22.6	21.3	20.4	19.4	18.5
45°	29.2	28.4	27.5	26.6	25.7	24.7	23.4	22.2	21.0	20.0	19.0
43.75°	29.9	29.1	28.3	27.4	26.4	25.4	24.3	23.0	21.7	20.6	19.6
42.5°	30.6	29.7	28.9	28.1	27.1	26.1	25.1	23.8	22.5	21.2	20.2
41.25°	31.1	30.4	29.6	28.7	27.8	26.8	25.8	24.6	23.3	21.9	20.7
40°	31.5	30.9	30.2	29.3	28.4	27.4	26.4	25.3	24.0	22.6	21.2
38.75°	32.0	31.4	30.8	29.9	29.0	28.1	27.0	25.9	24.7	23.3	21.9
37.5°	32.4	31.8	31.2	30.5	29.5	28.6	27.6	26.5	25.4	24.0	22.6
36.25°	32.9	32.2	31.6	30.9	30.1	29.1	28.2	27.0	25.9	24.7	23.2
35°	33.4	32.7	32.0	31.3	30.6	29.6	28.6	27.6	26.4	25.3	23.8



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**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
33.75°	33.9	33.1	32.4	31.7	31.0	30.1	29.1	28.1	26.9	25.8	24.4
32.5°	34.4	33.6	32.8	32.0	31.3	30.6	29.6	28.6	27.4	26.2	25.0
31.25°	34.8	34.0	33.2	32.4	31.7	31.0	30.0	29.0	27.9	26.7	25.5
30°	35.2	34.4	33.6	32.8	32.0	31.3	30.5	29.4	28.3	27.1	25.9
28.75°	35.6	34.8	34.0	33.2	32.3	31.6	30.8	29.8	28.7	27.6	26.3
27.5°	35.9	35.2	34.4	33.5	32.7	31.9	31.1	30.2	29.1	28.0	26.7
26.25°	36.3	35.5	34.7	33.9	33.0	32.2	31.4	30.6	29.5	28.3	27.1
25°	36.6	35.8	35.1	34.2	33.3	32.4	31.7	30.9	29.8	28.7	27.4
23.75°	36.9	36.1	35.3	34.6	33.6	32.7	31.9	31.1	30.1	29.0	27.8
22.5°	37.2	36.4	35.6	34.8	33.9	33.0	32.1	31.3	30.5	29.3	28.1
21.25°	37.4	36.7	35.9	35.1	34.2	33.3	32.4	31.6	30.7	29.6	28.4
20°	37.7	36.9	36.2	35.3	34.5	33.6	32.6	31.8	30.9	29.8	28.6
18.75°	37.9	37.2	36.4	35.6	34.7	33.8	32.8	32.0	31.1	30.1	28.9
17.5°	38.3	37.4	36.6	35.8	35.0	34.0	33.1	32.1	31.3	30.3	29.1
16.25°	38.7	37.6	36.8	36.0	35.1	34.3	33.3	32.3	31.5	30.6	29.3
15°	39.1	37.8	37.0	36.2	35.3	34.5	33.5	32.5	31.6	30.8	29.5
13.75°	39.5	38.0	37.2	36.4	35.5	34.6	33.6	32.6	31.8	30.9	29.7
12.5°	39.8	38.2	37.3	36.5	35.7	34.8	33.8	32.8	31.9	31.0	29.9
11.25°	40.1	38.5	37.5	36.7	35.8	34.9	34.0	32.9	32.0	31.1	30.0
10°	40.4	38.8	37.6	36.8	35.9	35.0	34.1	33.1	32.1	31.2	30.2
8.75°	40.7	39.0	37.7	36.9	36.0	35.1	34.2	33.2	32.2	31.3	30.3
7.5°	40.9	39.2	37.8	37.0	36.1	35.2	34.3	33.3	32.3	31.4	30.4
6.25°	41.1	39.4	37.9	37.1	36.2	35.3	34.4	33.4	32.3	31.5	30.5
5°	41.2	39.5	38.0	37.1	36.3	35.4	34.5	33.4	32.4	31.5	30.6
3.75°	41.3	39.7	38.0	37.2	36.3	35.4	34.5	33.5	32.4	31.5	30.6
2.5°	41.4	39.7	38.1	37.2	36.4	35.5	34.6	33.5	32.5	31.6	30.7
1.25°	41.5	39.8	38.1	37.2	36.4	35.5	34.6	33.5	32.5	31.6	30.7
0°	41.5	39.8	38.1	37.3	36.4	35.5	34.6	33.6	32.5	31.6	30.7
-1.25°	41.5	39.8	38.1	37.2	36.4	35.5	34.6	33.5	32.5	31.6	30.7
-2.5°	41.4	39.7	38.1	37.2	36.4	35.5	34.6	33.5	32.5	31.6	30.7
-3.75°	41.3	39.7	38.0	37.2	36.3	35.4	34.5	33.5	32.4	31.5	30.6
-5°	41.2	39.5	38.0	37.1	36.3	35.4	34.5	33.4	32.4	31.5	30.6
-6.25°	41.1	39.4	37.9	37.1	36.2	35.3	34.4	33.4	32.3	31.5	30.5
-7.5°	40.9	39.2	37.8	37.0	36.1	35.2	34.3	33.3	32.3	31.4	30.4
-8.75°	40.7	39.0	37.7	36.9	36.0	35.1	34.2	33.2	32.2	31.3	30.3
-10°	40.4	38.8	37.6	36.8	35.9	35.0	34.1	33.1	32.1	31.2	30.2
-11.25°	40.1	38.5	37.5	36.7	35.8	34.9	34.0	32.9	32.0	31.1	30.0
-12.5°	39.8	38.2	37.3	36.5	35.7	34.8	33.8	32.8	31.9	31.0	29.9
-13.75°	39.5	38.0	37.2	36.4	35.5	34.6	33.6	32.6	31.8	30.9	29.7
-15°	39.1	37.8	37.0	36.2	35.3	34.5	33.5	32.5	31.6	30.8	29.5
-16.25°	38.7	37.6	36.8	36.0	35.1	34.3	33.3	32.3	31.5	30.6	29.3
-17.5°	38.3	37.4	36.6	35.8	35.0	34.0	33.1	32.1	31.3	30.3	29.1
-18.75°	37.9	37.2	36.4	35.6	34.7	33.8	32.8	32.0	31.1	30.1	28.9
-20°	37.7	36.9	36.2	35.3	34.5	33.6	32.6	31.8	30.9	29.8	28.6
-21.25°	37.4	36.7	35.9	35.1	34.2	33.3	32.4	31.6	30.7	29.6	28.4





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**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
-22.5°	37.2	36.4	35.6	34.8	33.9	33.0	32.1	31.3	30.5	29.3	28.1
-23.75°	36.9	36.1	35.3	34.6	33.6	32.7	31.9	31.1	30.1	29.0	27.8
-25°	36.6	35.8	35.1	34.2	33.3	32.4	31.7	30.9	29.8	28.7	27.4
-26.25°	36.3	35.5	34.7	33.9	33.0	32.2	31.4	30.6	29.5	28.3	27.1
-27.5°	35.9	35.2	34.4	33.5	32.7	31.9	31.1	30.2	29.1	28.0	26.7
-28.75°	35.6	34.8	34.0	33.2	32.3	31.6	30.8	29.8	28.7	27.6	26.3
-30°	35.2	34.4	33.6	32.8	32.0	31.3	30.5	29.4	28.3	27.1	25.9
-31.25°	34.8	34.0	33.2	32.4	31.7	31.0	30.0	29.0	27.9	26.7	25.5
-32.5°	34.4	33.6	32.8	32.0	31.3	30.6	29.6	28.6	27.4	26.2	25.0
-33.75°	33.9	33.1	32.4	31.7	31.0	30.1	29.1	28.1	26.9	25.8	24.4
-35°	33.4	32.7	32.0	31.3	30.6	29.6	28.6	27.6	26.4	25.3	23.8
-36.25°	32.9	32.2	31.6	30.9	30.1	29.1	28.2	27.0	25.9	24.7	23.2
-37.5°	32.4	31.8	31.2	30.5	29.5	28.6	27.6	26.5	25.4	24.0	22.6
-38.75°	32.0	31.4	30.8	29.9	29.0	28.1	27.0	25.9	24.7	23.3	21.9
-40°	31.5	30.9	30.2	29.3	28.4	27.4	26.4	25.3	24.0	22.6	21.2
-41.25°	31.1	30.4	29.6	28.7	27.8	26.8	25.8	24.6	23.3	21.9	20.7
-42.5°	30.6	29.7	28.9	28.1	27.1	26.1	25.1	23.8	22.5	21.2	20.2
-43.75°	29.9	29.1	28.3	27.4	26.4	25.4	24.3	23.0	21.7	20.6	19.6
-45°	29.2	28.4	27.5	26.6	25.7	24.7	23.4	22.2	21.0	20.0	19.0
-46.25°	28.5	27.7	26.8	25.9	24.9	23.8	22.6	21.3	20.4	19.4	18.5
-47.5°	27.7	26.8	26.0	25.1	24.0	22.8	21.7	20.7	19.7	18.8	17.8
-48.75°	26.8	26.0	25.2	24.1	23.0	21.9	20.9	20.0	19.1	18.2	17.1
-50°	26.0	25.2	24.2	23.1	22.0	21.0	20.2	19.3	18.4	17.5	16.4
-51.25°	25.1	24.1	23.1	22.1	21.1	20.3	19.4	18.6	17.7	16.7	15.7
-52.5°	24.0	23.0	22.0	21.1	20.3	19.5	18.7	17.9	16.9	16.0	15.0
-53.75°	22.8	21.9	21.0	20.3	19.5	18.8	18.0	17.1	16.1	15.2	14.5
-55°	21.7	20.9	20.2	19.4	18.7	18.0	17.1	16.2	15.3	14.6	14.1
-56.25°	20.7	20.0	19.3	18.6	17.9	17.1	16.2	15.4	14.6	14.2	13.8
-57.5°	19.7	19.1	18.4	17.7	16.9	16.1	15.3	14.6	14.2	13.8	13.4
-58.75°	18.8	18.2	17.5	16.7	16.0	15.2	14.6	14.2	13.8	13.4	13.0
-60°	17.8	17.1	16.4	15.7	15.0	14.5	14.1	13.8	13.4	13.0	12.6
-61.25°	16.7	16.1	15.4	14.7	14.4	14.0	13.7	13.3	13.0	12.6	12.3
-62.5°	15.6	15.0	14.5	14.2	13.9	13.6	13.2	12.9	12.6	12.2	11.9
-63.75°	14.6	14.3	14.0	13.7	13.4	13.1	12.8	12.5	12.1	11.8	11.5
-65°	14.1	13.8	13.5	13.2	12.9	12.6	12.3	12.0	11.7	11.4	11.1
-66.25°	13.5	13.3	13.0	12.7	12.5	12.2	11.9	11.6	11.3	11.0	10.7
-67.5°	13.0	12.7	12.5	12.2	12.0	11.7	11.4	11.1	10.8	10.5	10.2
-68.75°	12.4	12.2	12.0	11.7	11.5	11.2	10.9	10.7	10.4	10.1	9.8
-70°	11.9	11.7	11.4	11.2	11.0	10.7	10.4	10.2	9.9	9.7	9.4
-71.25°	11.3	11.1	10.9	10.7	10.4	10.2	9.9	9.7	9.5	9.2	8.9
-72.5°	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.4
-73.75°	10.1	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9
-75°	9.6	9.4	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.3
-76.25°	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7
-77.5°	8.2	8.0	7.8	7.6	7.5	7.2	7.0	6.8	6.5	6.3	6.1



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**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
-78.75°	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.6	5.4
-80°	6.6	6.4	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.0	4.8
-81.25°	5.7	5.6	5.4	5.3	5.1	5.0	4.8	4.6	4.5	4.3	4.1
-82.5°	4.9	4.7	4.6	4.5	4.3	4.2	4.1	3.9	3.8	3.6	3.5
-83.75°	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.8
-85°	3.1	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2
-86.25°	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6
-87.5°	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1
-88.75°	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	61.25°	62.5°	63.75°	65°	66.25°	67.5°	68.75°	70°	71.25°	72.5°	73.75°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3
87.5°	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6
86.25°	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.0	0.9
85°	2.1	2.0	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
83.75°	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.5
82.5°	3.3	3.2	3.0	2.9	2.7	2.6	2.4	2.3	2.1	2.0	1.8
81.25°	4.0	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	2.3	2.1
80°	4.6	4.4	4.2	4.0	3.8	3.6	3.4	3.1	2.9	2.7	2.5
78.75°	5.2	5.0	4.7	4.5	4.3	4.1	3.8	3.6	3.3	3.1	2.9
77.5°	5.8	5.6	5.3	5.1	4.8	4.5	4.3	4.0	3.7	3.5	3.2
76.25°	6.4	6.2	5.9	5.6	5.3	5.0	4.7	4.4	4.2	3.9	3.6
75°	7.0	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.6	4.2	3.9
73.75°	7.6	7.3	7.0	6.7	6.3	6.0	5.7	5.3	5.0	4.6	4.3
72.5°	8.1	7.8	7.5	7.2	6.8	6.5	6.1	5.7	5.4	5.0	4.6
71.25°	8.6	8.3	8.0	7.7	7.3	6.9	6.6	6.2	5.8	5.4	5.0
70°	9.1	8.7	8.4	8.1	7.8	7.4	7.0	6.6	6.2	5.7	5.3
68.75°	9.5	9.2	8.8	8.5	8.2	7.8	7.4	7.0	6.6	6.1	5.7
67.5°	9.9	9.6	9.3	8.9	8.5	8.2	7.8	7.4	6.9	6.5	6.0
66.25°	10.3	10.0	9.7	9.3	8.9	8.5	8.2	7.8	7.3	6.8	6.3
65°	10.7	10.4	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.2	6.7
63.75°	11.1	10.8	10.4	10.1	9.7	9.3	8.8	8.4	8.0	7.5	7.0
62.5°	11.5	11.2	10.8	10.4	10.0	9.6	9.2	8.7	8.3	7.8	7.3
61.25°	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.6	8.1	7.6
60°	12.3	11.9	11.5	11.1	10.7	10.2	9.8	9.4	8.9	8.4	7.9
58.75°	12.6	12.2	11.8	11.4	11.0	10.5	10.1	9.7	9.2	8.6	8.1
57.5°	13.0	12.6	12.1	11.7	11.3	10.8	10.4	9.9	9.5	8.9	8.4
56.25°	13.3	12.9	12.5	12.0	11.6	11.1	10.7	10.2	9.7	9.2	8.6
55°	13.7	13.2	12.8	12.3	11.9	11.4	10.9	10.4	9.9	9.4	8.9
53.75°	14.0	13.6	13.1	12.6	12.2	11.7	11.2	10.7	10.2	9.7	9.1
52.5°	14.4	13.9	13.4	12.9	12.5	12.0	11.5	11.0	10.4	9.9	9.3
51.25°	14.7	14.2	13.7	13.2	12.7	12.2	11.7	11.2	10.7	10.1	9.6
50°	15.4	14.5	14.0	13.5	13.0	12.5	12.0	11.4	10.9	10.3	9.8
48.75°	16.1	15.0	14.3	13.8	13.3	12.7	12.2	11.7	11.1	10.5	10.0
47.5°	16.7	15.6	14.6	14.1	13.5	13.0	12.4	11.9	11.3	10.7	10.1
46.25°	17.4	16.3	15.1	14.4	13.8	13.2	12.7	12.1	11.5	10.9	10.3
45°	18.0	16.9	15.7	14.6	14.1	13.5	12.9	12.3	11.7	11.1	10.5
43.75°	18.6	17.5	16.3	15.1	14.3	13.7	13.1	12.5	11.9	11.3	10.7
42.5°	19.1	18.1	16.8	15.6	14.5	13.9	13.3	12.7	12.1	11.5	10.9
41.25°	19.6	18.6	17.4	16.1	14.9	14.2	13.6	12.9	12.3	11.7	11.0
40°	20.1	19.1	17.9	16.6	15.4	14.4	13.8	13.1	12.5	11.9	11.2
38.75°	20.6	19.5	18.4	17.1	15.8	14.6	14.0	13.3	12.7	12.0	11.4
37.5°	21.1	20.0	18.9	17.6	16.3	14.9	14.2	13.5	12.8	12.2	11.5
36.25°	21.7	20.4	19.3	18.1	16.7	15.4	14.4	13.7	13.0	12.3	11.7
35°	22.3	20.9	19.7	18.5	17.2	15.8	14.5	13.9	13.2	12.5	11.8



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**CANDELA DISTRIBUTION (continued):**

	61.25°	62.5°	63.75°	65°	66.25°	67.5°	68.75°	70°	71.25°	72.5°	73.75°
33.75°	22.9	21.3	20.1	18.9	17.6	16.2	14.8	14.0	13.3	12.6	11.9
32.5°	23.4	21.9	20.5	19.3	18.0	16.6	15.1	14.2	13.5	12.8	12.1
31.25°	24.0	22.4	20.9	19.6	18.4	16.9	15.5	14.4	13.6	12.9	12.2
30°	24.5	22.9	21.2	20.0	18.7	17.3	15.8	14.5	13.8	13.1	12.3
28.75°	25.0	23.4	21.7	20.3	19.0	17.6	16.1	14.7	13.9	13.2	12.5
27.5°	25.4	23.8	22.1	20.6	19.3	18.0	16.5	14.9	14.1	13.3	12.6
26.25°	25.8	24.3	22.6	20.9	19.6	18.3	16.8	15.2	14.2	13.4	12.7
25°	26.1	24.7	23.0	21.2	19.9	18.6	17.0	15.5	14.3	13.6	12.8
23.75°	26.4	25.1	23.4	21.6	20.2	18.8	17.3	15.7	14.4	13.7	12.9
22.5°	26.8	25.4	23.7	22.0	20.4	19.0	17.6	16.0	14.5	13.8	13.0
21.25°	27.1	25.7	24.1	22.3	20.7	19.3	17.8	16.2	14.7	13.9	13.1
20°	27.3	26.0	24.4	22.6	20.9	19.5	18.1	16.4	14.8	14.0	13.2
18.75°	27.6	26.2	24.7	22.9	21.1	19.7	18.3	16.7	15.0	14.0	13.2
17.5°	27.9	26.5	25.0	23.2	21.3	19.9	18.5	16.9	15.2	14.1	13.3
16.25°	28.1	26.7	25.3	23.4	21.6	20.1	18.6	17.0	15.4	14.2	13.4
15°	28.3	26.9	25.4	23.7	21.8	20.2	18.8	17.2	15.5	14.3	13.5
13.75°	28.5	27.1	25.6	23.9	22.0	20.4	18.9	17.4	15.7	14.3	13.5
12.5°	28.6	27.3	25.8	24.1	22.2	20.5	19.1	17.5	15.8	14.4	13.6
11.25°	28.8	27.4	26.0	24.3	22.4	20.7	19.2	17.6	15.9	14.5	13.6
10°	28.9	27.6	26.1	24.5	22.6	20.8	19.3	17.8	16.0	14.5	13.7
8.75°	29.0	27.7	26.2	24.6	22.7	20.9	19.4	17.9	16.1	14.6	13.7
7.5°	29.1	27.8	26.3	24.7	22.8	21.0	19.5	18.0	16.2	14.6	13.8
6.25°	29.2	27.9	26.4	24.9	22.9	21.0	19.5	18.0	16.3	14.6	13.8
5°	29.3	28.0	26.5	24.9	23.0	21.1	19.6	18.1	16.3	14.7	13.8
3.75°	29.3	28.0	26.5	25.0	23.1	21.1	19.6	18.1	16.4	14.7	13.8
2.5°	29.4	28.1	26.6	25.1	23.1	21.2	19.7	18.2	16.4	14.7	13.8
1.25°	29.4	28.1	26.6	25.1	23.1	21.2	19.7	18.2	16.4	14.7	13.8
0°	29.4	28.1	26.6	25.1	23.2	21.2	19.7	18.2	16.5	14.7	13.9
-1.25°	29.4	28.1	26.6	25.1	23.1	21.2	19.7	18.2	16.4	14.7	13.8
-2.5°	29.4	28.1	26.6	25.1	23.1	21.2	19.7	18.2	16.4	14.7	13.8
-3.75°	29.3	28.0	26.5	25.0	23.1	21.1	19.6	18.1	16.4	14.7	13.8
-5°	29.3	28.0	26.5	24.9	23.0	21.1	19.6	18.1	16.3	14.7	13.8
-6.25°	29.2	27.9	26.4	24.9	22.9	21.0	19.5	18.0	16.3	14.6	13.8
-7.5°	29.1	27.8	26.3	24.7	22.8	21.0	19.5	18.0	16.2	14.6	13.8
-8.75°	29.0	27.7	26.2	24.6	22.7	20.9	19.4	17.9	16.1	14.6	13.7
-10°	28.9	27.6	26.1	24.5	22.6	20.8	19.3	17.8	16.0	14.5	13.7
-11.25°	28.8	27.4	26.0	24.3	22.4	20.7	19.2	17.6	15.9	14.5	13.6
-12.5°	28.6	27.3	25.8	24.1	22.2	20.5	19.1	17.5	15.8	14.4	13.6
-13.75°	28.5	27.1	25.6	23.9	22.0	20.4	18.9	17.4	15.7	14.3	13.5
-15°	28.3	26.9	25.4	23.7	21.8	20.2	18.8	17.2	15.5	14.3	13.5
-16.25°	28.1	26.7	25.3	23.4	21.6	20.1	18.6	17.0	15.4	14.2	13.4
-17.5°	27.9	26.5	25.0	23.2	21.3	19.9	18.5	16.9	15.2	14.1	13.3
-18.75°	27.6	26.2	24.7	22.9	21.1	19.7	18.3	16.7	15.0	14.0	13.2
-20°	27.3	26.0	24.4	22.6	20.9	19.5	18.1	16.4	14.8	14.0	13.2
-21.25°	27.1	25.7	24.1	22.3	20.7	19.3	17.8	16.2	14.7	13.9	13.1



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**CANDELA DISTRIBUTION (continued):**

	61.25°	62.5°	63.75°	65°	66.25°	67.5°	68.75°	70°	71.25°	72.5°	73.75°
-22.5°	26.8	25.4	23.7	22.0	20.4	19.0	17.6	16.0	14.5	13.8	13.0
-23.75°	26.4	25.1	23.4	21.6	20.2	18.8	17.3	15.7	14.4	13.7	12.9
-25°	26.1	24.7	23.0	21.2	19.9	18.6	17.0	15.5	14.3	13.6	12.8
-26.25°	25.8	24.3	22.6	20.9	19.6	18.3	16.8	15.2	14.2	13.4	12.7
-27.5°	25.4	23.8	22.1	20.6	19.3	18.0	16.5	14.9	14.1	13.3	12.6
-28.75°	25.0	23.4	21.7	20.3	19.0	17.6	16.1	14.7	13.9	13.2	12.5
-30°	24.5	22.9	21.2	20.0	18.7	17.3	15.8	14.5	13.8	13.1	12.3
-31.25°	24.0	22.4	20.9	19.6	18.4	16.9	15.5	14.4	13.6	12.9	12.2
-32.5°	23.4	21.9	20.5	19.3	18.0	16.6	15.1	14.2	13.5	12.8	12.1
-33.75°	22.9	21.3	20.1	18.9	17.6	16.2	14.8	14.0	13.3	12.6	11.9
-35°	22.3	20.9	19.7	18.5	17.2	15.8	14.5	13.9	13.2	12.5	11.8
-36.25°	21.7	20.4	19.3	18.1	16.7	15.4	14.4	13.7	13.0	12.3	11.7
-37.5°	21.1	20.0	18.9	17.6	16.3	14.9	14.2	13.5	12.8	12.2	11.5
-38.75°	20.6	19.5	18.4	17.1	15.8	14.6	14.0	13.3	12.7	12.0	11.4
-40°	20.1	19.1	17.9	16.6	15.4	14.4	13.8	13.1	12.5	11.9	11.2
-41.25°	19.6	18.6	17.4	16.1	14.9	14.2	13.6	12.9	12.3	11.7	11.0
-42.5°	19.1	18.1	16.8	15.6	14.5	13.9	13.3	12.7	12.1	11.5	10.9
-43.75°	18.6	17.5	16.3	15.1	14.3	13.7	13.1	12.5	11.9	11.3	10.7
-45°	18.0	16.9	15.7	14.6	14.1	13.5	12.9	12.3	11.7	11.1	10.5
-46.25°	17.4	16.3	15.1	14.4	13.8	13.2	12.7	12.1	11.5	10.9	10.3
-47.5°	16.7	15.6	14.6	14.1	13.5	13.0	12.4	11.9	11.3	10.7	10.1
-48.75°	16.1	15.0	14.3	13.8	13.3	12.7	12.2	11.7	11.1	10.5	10.0
-50°	15.4	14.5	14.0	13.5	13.0	12.5	12.0	11.4	10.9	10.3	9.8
-51.25°	14.7	14.2	13.7	13.2	12.7	12.2	11.7	11.2	10.7	10.1	9.6
-52.5°	14.4	13.9	13.4	12.9	12.5	12.0	11.5	11.0	10.4	9.9	9.3
-53.75°	14.0	13.6	13.1	12.6	12.2	11.7	11.2	10.7	10.2	9.7	9.1
-55°	13.7	13.2	12.8	12.3	11.9	11.4	10.9	10.4	9.9	9.4	8.9
-56.25°	13.3	12.9	12.5	12.0	11.6	11.1	10.7	10.2	9.7	9.2	8.6
-57.5°	13.0	12.6	12.1	11.7	11.3	10.8	10.4	9.9	9.5	8.9	8.4
-58.75°	12.6	12.2	11.8	11.4	11.0	10.5	10.1	9.7	9.2	8.6	8.1
-60°	12.3	11.9	11.5	11.1	10.7	10.2	9.8	9.4	8.9	8.4	7.9
-61.25°	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.6	8.1	7.6
-62.5°	11.5	11.2	10.8	10.4	10.0	9.6	9.2	8.7	8.3	7.8	7.3
-63.75°	11.1	10.8	10.4	10.1	9.7	9.3	8.8	8.4	8.0	7.5	7.0
-65°	10.7	10.4	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.2	6.7
-66.25°	10.3	10.0	9.7	9.3	8.9	8.5	8.2	7.8	7.3	6.8	6.3
-67.5°	9.9	9.6	9.3	8.9	8.5	8.2	7.8	7.4	6.9	6.5	6.0
-68.75°	9.5	9.2	8.8	8.5	8.2	7.8	7.4	7.0	6.6	6.1	5.7
-70°	9.1	8.7	8.4	8.1	7.8	7.4	7.0	6.6	6.2	5.7	5.3
-71.25°	8.6	8.3	8.0	7.7	7.3	6.9	6.6	6.2	5.8	5.4	5.0
-72.5°	8.1	7.8	7.5	7.2	6.8	6.5	6.1	5.7	5.4	5.0	4.6
-73.75°	7.6	7.3	7.0	6.7	6.3	6.0	5.7	5.3	5.0	4.6	4.3
-75°	7.0	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.6	4.2	3.9
-76.25°	6.4	6.2	5.9	5.6	5.3	5.0	4.7	4.4	4.2	3.9	3.6
-77.5°	5.8	5.6	5.3	5.1	4.8	4.5	4.3	4.0	3.7	3.5	3.2



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**CANDELA DISTRIBUTION (continued):**

	61.25°	62.5°	63.75°	65°	66.25°	67.5°	68.75°	70°	71.25°	72.5°	73.75°
-78.75°	5.2	5.0	4.7	4.5	4.3	4.1	3.8	3.6	3.3	3.1	2.9
-80°	4.6	4.4	4.2	4.0	3.8	3.6	3.4	3.1	2.9	2.7	2.5
-81.25°	4.0	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	2.3	2.1
-82.5°	3.3	3.2	3.0	2.9	2.7	2.6	2.4	2.3	2.1	2.0	1.8
-83.75°	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.5
-85°	2.1	2.0	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
-86.25°	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.0	0.9
-87.5°	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6
-88.75°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	76.25°	77.5°	78.75°	80°	81.25°	82.5°	83.75°	85°	86.25°	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.75°	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0
87.5°	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1
86.25°	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1
85°	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2
83.75°	1.4	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.4	0.2
82.5°	1.7	1.6	1.4	1.3	1.1	1.0	0.9	0.7	0.6	0.4	0.3
81.25°	2.0	1.8	1.7	1.5	1.3	1.2	1.0	0.8	0.7	0.5	0.3
80°	2.3	2.1	1.9	1.7	1.5	1.3	1.1	1.0	0.8	0.6	0.4
78.75°	2.6	2.4	2.1	1.9	1.7	1.5	1.3	1.1	0.9	0.6	0.4
77.5°	2.9	2.7	2.4	2.1	1.9	1.7	1.4	1.2	1.0	0.7	0.5
76.25°	3.3	3.0	2.7	2.4	2.1	1.8	1.6	1.3	1.0	0.8	0.5
75°	3.6	3.3	2.9	2.6	2.3	2.0	1.7	1.4	1.1	0.9	0.6
73.75°	3.9	3.6	3.2	2.9	2.5	2.1	1.8	1.5	1.2	0.9	0.6
72.5°	4.2	3.9	3.5	3.1	2.7	2.3	2.0	1.7	1.3	1.0	0.7
71.25°	4.6	4.2	3.7	3.3	2.9	2.5	2.1	1.8	1.4	1.1	0.7
70°	4.9	4.4	4.0	3.6	3.1	2.7	2.3	1.9	1.5	1.1	0.8
68.75°	5.2	4.7	4.3	3.8	3.4	2.9	2.4	2.0	1.6	1.2	0.8
67.5°	5.5	5.0	4.5	4.1	3.6	3.1	2.6	2.1	1.7	1.3	0.8
66.25°	5.8	5.3	4.8	4.3	3.8	3.3	2.7	2.2	1.8	1.3	0.9
65°	6.1	5.6	5.1	4.5	4.0	3.4	2.9	2.3	1.9	1.4	0.9
63.75°	6.4	5.9	5.3	4.7	4.2	3.6	3.0	2.5	1.9	1.5	1.0
62.5°	6.7	6.2	5.6	5.0	4.4	3.8	3.2	2.6	2.0	1.5	1.0
61.25°	7.0	6.4	5.8	5.2	4.6	4.0	3.3	2.7	2.1	1.6	1.1
60°	7.3	6.7	6.1	5.4	4.8	4.1	3.5	2.8	2.2	1.6	1.1
58.75°	7.6	7.0	6.3	5.6	5.0	4.3	3.6	3.0	2.3	1.7	1.1
57.5°	7.8	7.2	6.5	5.9	5.2	4.5	3.8	3.1	2.4	1.8	1.2
56.25°	8.0	7.5	6.8	6.1	5.4	4.6	3.9	3.2	2.5	1.8	1.2
55°	8.3	7.7	7.0	6.3	5.5	4.8	4.1	3.3	2.6	1.9	1.3
53.75°	8.5	7.9	7.2	6.5	5.7	5.0	4.2	3.4	2.7	2.0	1.3
52.5°	8.7	8.1	7.5	6.7	5.9	5.1	4.3	3.6	2.8	2.0	1.3
51.25°	8.9	8.3	7.6	6.9	6.1	5.3	4.5	3.7	2.9	2.1	1.4
50°	9.1	8.5	7.8	7.1	6.3	5.4	4.6	3.8	2.9	2.1	1.4
48.75°	9.4	8.7	8.0	7.3	6.4	5.6	4.7	3.9	3.0	2.2	1.5
47.5°	9.6	8.9	8.2	7.5	6.6	5.7	4.9	4.0	3.1	2.2	1.5
46.25°	9.7	9.0	8.3	7.6	6.8	5.9	5.0	4.1	3.2	2.3	1.5
45°	9.9	9.2	8.5	7.8	6.9	6.0	5.1	4.2	3.3	2.4	1.6
43.75°	10.1	9.4	8.7	7.9	7.1	6.2	5.2	4.3	3.4	2.4	1.6
42.5°	10.2	9.6	8.8	8.0	7.2	6.3	5.3	4.4	3.4	2.5	1.6
41.25°	10.4	9.7	9.0	8.2	7.4	6.4	5.5	4.5	3.5	2.5	1.7
40°	10.5	9.9	9.1	8.3	7.5	6.6	5.6	4.6	3.6	2.6	1.7
38.75°	10.7	10.0	9.3	8.5	7.6	6.7	5.7	4.7	3.7	2.6	1.7
37.5°	10.8	10.1	9.4	8.6	7.8	6.8	5.8	4.8	3.7	2.7	1.7
36.25°	11.0	10.3	9.5	8.7	7.9	6.9	5.9	4.8	3.8	2.7	1.8
35°	11.1	10.4	9.7	8.8	8.0	7.0	6.0	4.9	3.9	2.8	1.8



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	76.25°	77.5°	78.75°	80°	81.25°	82.5°	83.75°	85°	86.25°	87.5°
33.75°	11.2	10.5	9.8	8.9	8.1	7.2	6.1	5.0	3.9	2.8	1.8
32.5°	11.4	10.6	9.9	9.1	8.2	7.3	6.2	5.1	4.0	2.9	1.9
31.25°	11.5	10.7	10.0	9.2	8.3	7.4	6.3	5.2	4.0	2.9	1.9
30°	11.6	10.9	10.1	9.3	8.4	7.5	6.4	5.2	4.1	3.0	1.9
28.75°	11.7	11.0	10.2	9.4	8.5	7.5	6.4	5.3	4.2	3.0	1.9
27.5°	11.8	11.1	10.3	9.5	8.5	7.6	6.5	5.4	4.2	3.1	2.0
26.25°	11.9	11.2	10.4	9.6	8.6	7.7	6.6	5.4	4.3	3.1	2.0
25°	12.0	11.3	10.4	9.6	8.7	7.8	6.7	5.5	4.3	3.1	2.0
23.75°	12.1	11.3	10.5	9.7	8.8	7.8	6.7	5.5	4.4	3.2	2.0
22.5°	12.2	11.4	10.6	9.8	8.9	7.9	6.8	5.6	4.4	3.2	2.0
21.25°	12.3	11.5	10.7	9.8	8.9	7.9	6.9	5.7	4.4	3.2	2.1
20°	12.4	11.6	10.7	9.9	9.0	8.0	6.9	5.7	4.5	3.3	2.1
18.75°	12.4	11.6	10.8	10.0	9.0	8.1	7.0	5.8	4.5	3.3	2.1
17.5°	12.5	11.7	10.9	10.0	9.1	8.1	7.0	5.8	4.6	3.3	2.1
16.25°	12.6	11.8	10.9	10.1	9.2	8.2	7.1	5.8	4.6	3.3	2.1
15°	12.6	11.8	11.0	10.1	9.2	8.2	7.1	5.9	4.6	3.4	2.1
13.75°	12.7	11.9	11.0	10.2	9.3	8.2	7.2	5.9	4.7	3.4	2.1
12.5°	12.8	11.9	11.1	10.2	9.3	8.3	7.2	5.9	4.7	3.4	2.1
11.25°	12.8	12.0	11.1	10.2	9.3	8.3	7.2	6.0	4.7	3.4	2.2
10°	12.8	12.0	11.2	10.3	9.4	8.3	7.3	6.0	4.7	3.4	2.2
8.75°	12.9	12.0	11.2	10.3	9.4	8.4	7.3	6.0	4.7	3.5	2.2
7.5°	12.9	12.1	11.2	10.3	9.4	8.4	7.3	6.0	4.8	3.5	2.2
6.25°	12.9	12.1	11.2	10.4	9.4	8.4	7.4	6.1	4.8	3.5	2.2
5°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
3.75°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
2.5°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
1.25°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
0°	13.0	12.2	11.3	10.4	9.5	8.5	7.4	6.1	4.8	3.5	2.2
-1.25°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
-2.5°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
-3.75°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
-5°	13.0	12.1	11.3	10.4	9.5	8.4	7.4	6.1	4.8	3.5	2.2
-6.25°	12.9	12.1	11.2	10.4	9.4	8.4	7.4	6.1	4.8	3.5	2.2
-7.5°	12.9	12.1	11.2	10.3	9.4	8.4	7.3	6.0	4.8	3.5	2.2
-8.75°	12.9	12.0	11.2	10.3	9.4	8.4	7.3	6.0	4.7	3.5	2.2
-10°	12.8	12.0	11.2	10.3	9.4	8.3	7.3	6.0	4.7	3.4	2.2
-11.25°	12.8	12.0	11.1	10.2	9.3	8.3	7.2	6.0	4.7	3.4	2.2
-12.5°	12.8	11.9	11.1	10.2	9.3	8.3	7.2	5.9	4.7	3.4	2.1
-13.75°	12.7	11.9	11.0	10.2	9.3	8.2	7.2	5.9	4.7	3.4	2.1
-15°	12.6	11.8	11.0	10.1	9.2	8.2	7.1	5.9	4.6	3.4	2.1
-16.25°	12.6	11.8	10.9	10.1	9.2	8.2	7.1	5.8	4.6	3.3	2.1
-17.5°	12.5	11.7	10.9	10.0	9.1	8.1	7.0	5.8	4.6	3.3	2.1
-18.75°	12.4	11.6	10.8	10.0	9.0	8.1	7.0	5.8	4.5	3.3	2.1
-20°	12.4	11.6	10.7	9.9	9.0	8.0	6.9	5.7	4.5	3.3	2.1
-21.25°	12.3	11.5	10.7	9.8	8.9	7.9	6.9	5.7	4.4	3.2	2.1





REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	76.25°	77.5°	78.75°	80°	81.25°	82.5°	83.75°	85°	86.25°	87.5°
-22.5°	12.2	11.4	10.6	9.8	8.9	7.9	6.8	5.6	4.4	3.2	2.0
-23.75°	12.1	11.3	10.5	9.7	8.8	7.8	6.7	5.5	4.4	3.2	2.0
-25°	12.0	11.3	10.4	9.6	8.7	7.8	6.7	5.5	4.3	3.1	2.0
-26.25°	11.9	11.2	10.4	9.6	8.6	7.7	6.6	5.4	4.3	3.1	2.0
-27.5°	11.8	11.1	10.3	9.5	8.5	7.6	6.5	5.4	4.2	3.1	2.0
-28.75°	11.7	11.0	10.2	9.4	8.5	7.5	6.4	5.3	4.2	3.0	1.9
-30°	11.6	10.9	10.1	9.3	8.4	7.5	6.4	5.2	4.1	3.0	1.9
-31.25°	11.5	10.7	10.0	9.2	8.3	7.4	6.3	5.2	4.0	2.9	1.9
-32.5°	11.4	10.6	9.9	9.1	8.2	7.3	6.2	5.1	4.0	2.9	1.9
-33.75°	11.2	10.5	9.8	8.9	8.1	7.2	6.1	5.0	3.9	2.8	1.8
-35°	11.1	10.4	9.7	8.8	8.0	7.0	6.0	4.9	3.9	2.8	1.8
-36.25°	11.0	10.3	9.5	8.7	7.9	6.9	5.9	4.8	3.8	2.7	1.8
-37.5°	10.8	10.1	9.4	8.6	7.8	6.8	5.8	4.8	3.7	2.7	1.7
-38.75°	10.7	10.0	9.3	8.5	7.6	6.7	5.7	4.7	3.7	2.6	1.7
-40°	10.5	9.9	9.1	8.3	7.5	6.6	5.6	4.6	3.6	2.6	1.7
-41.25°	10.4	9.7	9.0	8.2	7.4	6.4	5.5	4.5	3.5	2.5	1.7
-42.5°	10.2	9.6	8.8	8.0	7.2	6.3	5.3	4.4	3.4	2.5	1.6
-43.75°	10.1	9.4	8.7	7.9	7.1	6.2	5.2	4.3	3.4	2.4	1.6
-45°	9.9	9.2	8.5	7.8	6.9	6.0	5.1	4.2	3.3	2.4	1.6
-46.25°	9.7	9.0	8.3	7.6	6.8	5.9	5.0	4.1	3.2	2.3	1.5
-47.5°	9.6	8.9	8.2	7.5	6.6	5.7	4.9	4.0	3.1	2.2	1.5
-48.75°	9.4	8.7	8.0	7.3	6.4	5.6	4.7	3.9	3.0	2.2	1.5
-50°	9.1	8.5	7.8	7.1	6.3	5.4	4.6	3.8	2.9	2.1	1.4
-51.25°	8.9	8.3	7.6	6.9	6.1	5.3	4.5	3.7	2.9	2.1	1.4
-52.5°	8.7	8.1	7.5	6.7	5.9	5.1	4.3	3.6	2.8	2.0	1.3
-53.75°	8.5	7.9	7.2	6.5	5.7	5.0	4.2	3.4	2.7	2.0	1.3
-55°	8.3	7.7	7.0	6.3	5.5	4.8	4.1	3.3	2.6	1.9	1.3
-56.25°	8.0	7.5	6.8	6.1	5.4	4.6	3.9	3.2	2.5	1.8	1.2
-57.5°	7.8	7.2	6.5	5.9	5.2	4.5	3.8	3.1	2.4	1.8	1.2
-58.75°	7.6	7.0	6.3	5.6	5.0	4.3	3.6	3.0	2.3	1.7	1.1
-60°	7.3	6.7	6.1	5.4	4.8	4.1	3.5	2.8	2.2	1.6	1.1
-61.25°	7.0	6.4	5.8	5.2	4.6	4.0	3.3	2.7	2.1	1.6	1.1
-62.5°	6.7	6.2	5.6	5.0	4.4	3.8	3.2	2.6	2.0	1.5	1.0
-63.75°	6.4	5.9	5.3	4.7	4.2	3.6	3.0	2.5	1.9	1.5	1.0
-65°	6.1	5.6	5.1	4.5	4.0	3.4	2.9	2.3	1.9	1.4	0.9
-66.25°	5.8	5.3	4.8	4.3	3.8	3.3	2.7	2.2	1.8	1.3	0.9
-67.5°	5.5	5.0	4.5	4.1	3.6	3.1	2.6	2.1	1.7	1.3	0.8
-68.75°	5.2	4.7	4.3	3.8	3.4	2.9	2.4	2.0	1.6	1.2	0.8
-70°	4.9	4.4	4.0	3.6	3.1	2.7	2.3	1.9	1.5	1.1	0.8
-71.25°	4.6	4.2	3.7	3.3	2.9	2.5	2.1	1.8	1.4	1.1	0.7
-72.5°	4.2	3.9	3.5	3.1	2.7	2.3	2.0	1.7	1.3	1.0	0.7
-73.75°	3.9	3.6	3.2	2.9	2.5	2.1	1.8	1.5	1.2	0.9	0.6
-75°	3.6	3.3	2.9	2.6	2.3	2.0	1.7	1.4	1.1	0.9	0.6
-76.25°	3.3	3.0	2.7	2.4	2.1	1.8	1.6	1.3	1.0	0.8	0.5
-77.5°	2.9	2.7	2.4	2.1	1.9	1.7	1.4	1.2	1.0	0.7	0.5



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	76.25°	77.5°	78.75°	80°	81.25°	82.5°	83.75°	85°	86.25°	87.5°
-78.75°	2.6	2.4	2.1	1.9	1.7	1.5	1.3	1.1	0.9	0.6	0.4
-80°	2.3	2.1	1.9	1.7	1.5	1.3	1.1	1.0	0.8	0.6	0.4
-81.25°	2.0	1.8	1.7	1.5	1.3	1.2	1.0	0.8	0.7	0.5	0.3
-82.5°	1.7	1.6	1.4	1.3	1.1	1.0	0.9	0.7	0.6	0.4	0.3
-83.75°	1.4	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.4	0.2
-85°	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2
-86.25°	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1
-87.5°	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1
-88.75°	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
90°	0.0	0.0
88.75°	0.0	0.0
87.5°	0.0	0.0
86.25°	0.1	0.0
85°	0.1	0.0
83.75°	0.1	0.0
82.5°	0.1	0.0
81.25°	0.2	0.0
80°	0.2	0.0
78.75°	0.2	0.0
77.5°	0.2	0.0
76.25°	0.3	0.0
75°	0.3	0.0
73.75°	0.3	0.0
72.5°	0.3	0.0
71.25°	0.4	0.0
70°	0.4	0.0
68.75°	0.4	0.0
67.5°	0.4	0.0
66.25°	0.4	0.0
65°	0.5	0.0
63.75°	0.5	0.0
62.5°	0.5	0.0
61.25°	0.5	0.0
60°	0.5	0.0
58.75°	0.6	0.0
57.5°	0.6	0.0
56.25°	0.6	0.0
55°	0.6	0.0
53.75°	0.7	0.0
52.5°	0.7	0.0
51.25°	0.7	0.0
50°	0.7	0.0
48.75°	0.7	0.0
47.5°	0.7	0.0
46.25°	0.8	0.0
45°	0.8	0.0
43.75°	0.8	0.0
42.5°	0.8	0.0
41.25°	0.8	0.0
40°	0.8	0.0
38.75°	0.9	0.0
37.5°	0.9	0.0
36.25°	0.9	0.0
35°	0.9	0.0



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**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
33.75°	0.9	0.0
32.5°	0.9	0.0
31.25°	0.9	0.0
30°	1.0	0.0
28.75°	1.0	0.0
27.5°	1.0	0.0
26.25°	1.0	0.0
25°	1.0	0.0
23.75°	1.0	0.0
22.5°	1.0	0.0
21.25°	1.0	0.0
20°	1.0	0.0
18.75°	1.0	0.0
17.5°	1.0	0.0
16.25°	1.1	0.0
15°	1.1	0.0
13.75°	1.1	0.0
12.5°	1.1	0.0
11.25°	1.1	0.0
10°	1.1	0.0
8.75°	1.1	0.0
7.5°	1.1	0.0
6.25°	1.1	0.0
5°	1.1	0.0
3.75°	1.1	0.0
2.5°	1.1	0.0
1.25°	1.1	0.0
0°	1.1	0.0
-1.25°	1.1	0.0
-2.5°	1.1	0.0
-3.75°	1.1	0.0
-5°	1.1	0.0
-6.25°	1.1	0.0
-7.5°	1.1	0.0
-8.75°	1.1	0.0
-10°	1.1	0.0
-11.25°	1.1	0.0
-12.5°	1.1	0.0
-13.75°	1.1	0.0
-15°	1.1	0.0
-16.25°	1.1	0.0
-17.5°	1.0	0.0
-18.75°	1.0	0.0
-20°	1.0	0.0
-21.25°	1.0	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
-22.5°	1.0	0.0
-23.75°	1.0	0.0
-25°	1.0	0.0
-26.25°	1.0	0.0
-27.5°	1.0	0.0
-28.75°	1.0	0.0
-30°	1.0	0.0
-31.25°	0.9	0.0
-32.5°	0.9	0.0
-33.75°	0.9	0.0
-35°	0.9	0.0
-36.25°	0.9	0.0
-37.5°	0.9	0.0
-38.75°	0.9	0.0
-40°	0.8	0.0
-41.25°	0.8	0.0
-42.5°	0.8	0.0
-43.75°	0.8	0.0
-45°	0.8	0.0
-46.25°	0.8	0.0
-47.5°	0.7	0.0
-48.75°	0.7	0.0
-50°	0.7	0.0
-51.25°	0.7	0.0
-52.5°	0.7	0.0
-53.75°	0.7	0.0
-55°	0.6	0.0
-56.25°	0.6	0.0
-57.5°	0.6	0.0
-58.75°	0.6	0.0
-60°	0.5	0.0
-61.25°	0.5	0.0
-62.5°	0.5	0.0
-63.75°	0.5	0.0
-65°	0.5	0.0
-66.25°	0.4	0.0
-67.5°	0.4	0.0
-68.75°	0.4	0.0
-70°	0.4	0.0
-71.25°	0.4	0.0
-72.5°	0.3	0.0
-73.75°	0.3	0.0
-75°	0.3	0.0
-76.25°	0.3	0.0
-77.5°	0.2	0.0



REPORT NUMBER: P220485 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
-78.75°	0.2	0.0
-80°	0.2	0.0
-81.25°	0.2	0.0
-82.5°	0.1	0.0
-83.75°	0.1	0.0
-85°	0.1	0.0
-86.25°	0.1	0.0
-87.5°	0.0	0.0
-88.75°	0.0	0.0
-90°	0.0	0.0

(END OF REPORT)