

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: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29412)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,  
WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

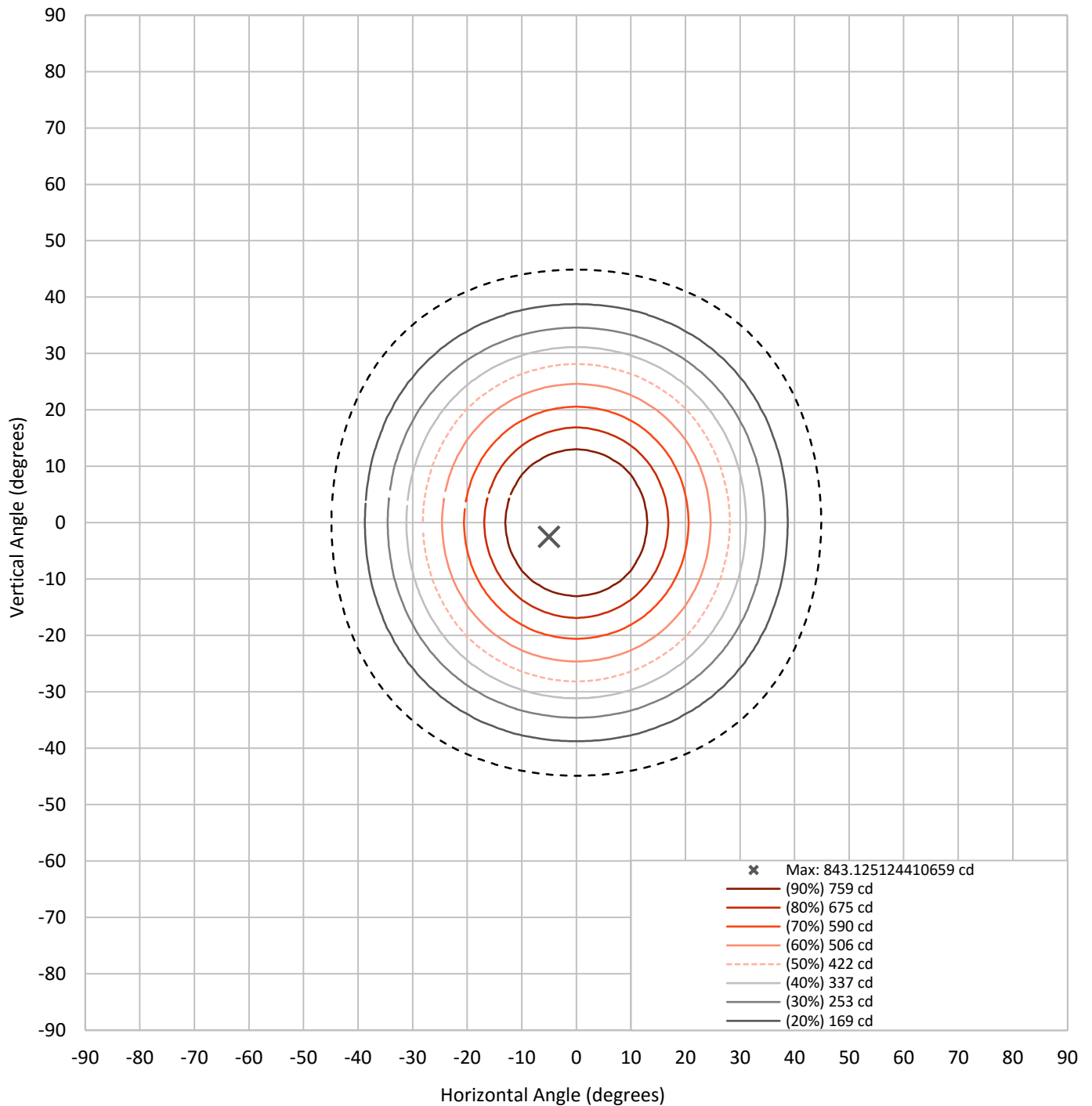
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	747.2 lumens	Max Intensity:	843.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	74.7 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.1°H x 55.5°V	Field Angle (10%):	89.7°H x 89.4°V
Beam Lumens:	462.2 lumens	Field Lumens:	697.6 lumens
Beam Efficiency:	61.9%	Field Efficiency:	93.4%
Input Watts (W):	10		
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





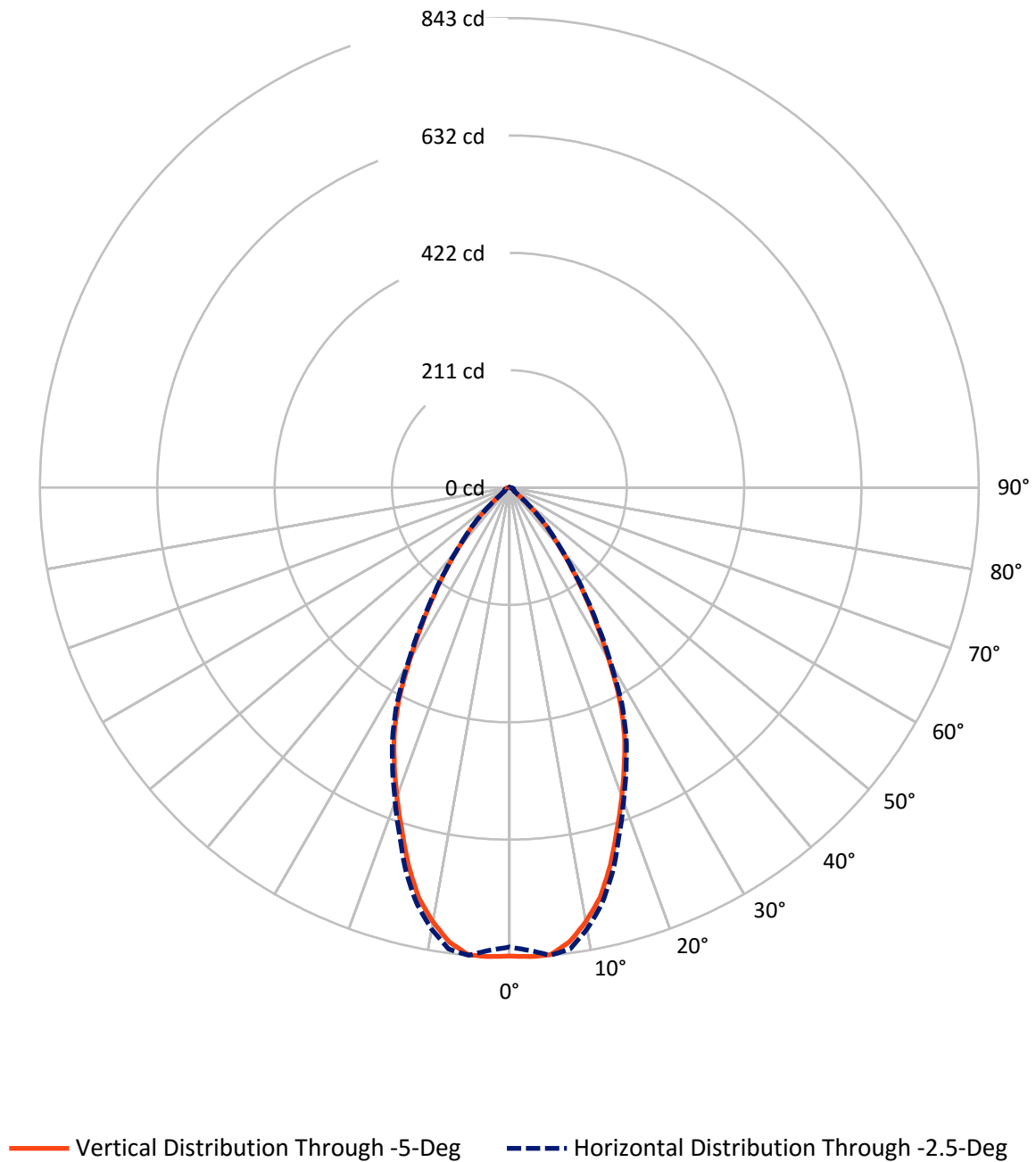
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### Lumen Table

90																			
80	0.0	0.1		0.3		0.4		0.5		0.4		0.3		0.1		0.0			
70																			
60	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1			
50		0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1				
40	0.1	0.1	0.1	0.2	0.3	0.9	1.8	2.4	2.4	1.8	0.9	0.3	0.2	0.1	0.1	0.1			
30		0.1	0.2	0.3	1.3	3.3	5.6	7.2	7.2	5.6	3.3	1.3	0.3	0.2	0.1				
20	0.1	0.1	0.2	0.7	3.0	6.9	11.6	14.5	14.5	11.6	6.9	3.0	0.7	0.2	0.1	0.1			
10		0.1	0.2	1.3	4.8	10.9	17.0	21.0	21.0	17.0	10.9	4.8	1.3	0.2	0.1				
0	0.1	0.1	0.2	1.8	6.0	13.2	20.3	24.9	24.9	20.3	13.2	6.0	1.8	0.2	0.1	0.1			
-10		0.1	0.2	1.8	6.0	13.2	20.3	24.9	24.9	20.3	13.2	6.0	1.8	0.2	0.1				
-20	0.1	0.1	0.2	1.3	4.8	10.9	17.0	21.0	21.0	17.0	10.9	4.8	1.3	0.2	0.1	0.1			
-30		0.1	0.2	0.7	3.0	6.9	11.6	14.5	14.5	11.6	6.9	3.0	0.7	0.2	0.1				
-40	0.1	0.1	0.2	0.3	1.3	3.3	5.6	7.2	7.2	5.6	3.3	1.3	0.3	0.2	0.1	0.1			
-50		0.1	0.1	0.2	0.3	0.9	1.8	2.4	2.4	1.8	0.9	0.3	0.2	0.1	0.1				
-60	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1			
-70		0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1				
-80																			
-90	0.0	0.1		0.3		0.4		0.5		0.4		0.3		0.1		0.0			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 56.1°  
 V Angle: 55.5°  
 Lumens: 462.2  
 Efficiency: 61.9%

**Field:**  
 H Angle: 89.7°  
 V Angle: 89.4°  
 Lumens: 697.6  
 Efficiency: 93.4%

**Spill:**  
 Lumens: 49.6  
 Efficiency: 6.6%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.1	1.3	1.6	1.8
77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.4
75°	0.0	0.2	0.4	0.6	0.8	1.2	1.6	2.0	2.3	2.5	2.7
72.5°	0.0	0.2	0.5	0.7	1.1	1.5	2.0	2.4	2.6	2.8	3.0
70°	0.0	0.3	0.5	0.8	1.3	1.8	2.3	2.6	2.8	3.1	3.4
67.5°	0.0	0.3	0.6	1.0	1.6	2.2	2.5	2.8	3.1	3.4	3.7
65°	0.0	0.3	0.7	1.2	1.8	2.4	2.7	3.0	3.4	3.7	4.1
62.5°	0.0	0.4	0.7	1.4	2.1	2.5	2.9	3.3	3.6	4.0	4.7
60°	0.0	0.4	0.8	1.5	2.3	2.7	3.1	3.5	3.9	4.5	5.2
57.5°	0.0	0.4	0.9	1.7	2.4	2.8	3.3	3.7	4.3	5.0	5.6
55°	0.0	0.5	1.0	1.9	2.5	3.0	3.4	3.9	4.7	5.5	5.9
52.5°	0.0	0.5	1.1	2.0	2.6	3.1	3.6	4.2	5.1	5.7	6.2
50°	0.0	0.5	1.2	2.2	2.8	3.3	3.8	4.6	5.5	6.0	6.2
47.5°	0.0	0.5	1.3	2.3	2.9	3.4	3.9	4.9	5.7	6.2	6.2
45°	0.0	0.6	1.4	2.4	3.0	3.5	4.2	5.3	5.9	6.2	6.2
42.5°	0.0	0.6	1.5	2.5	3.1	3.6	4.5	5.5	6.1	6.2	6.4
40°	0.0	0.6	1.6	2.5	3.1	3.8	4.8	5.7	6.2	6.2	6.6
37.5°	0.0	0.6	1.7	2.6	3.2	3.9	5.0	5.8	6.2	6.3	6.9
35°	0.0	0.7	1.8	2.7	3.3	4.0	5.2	6.0	6.2	6.4	7.1
32.5°	0.0	0.7	1.8	2.7	3.4	4.2	5.4	6.1	6.2	6.6	7.2
30°	0.0	0.7	1.9	2.8	3.5	4.4	5.5	6.2	6.2	6.8	7.4
27.5°	0.0	0.7	2.0	2.8	3.5	4.5	5.6	6.2	6.3	6.9	7.6
25°	0.0	0.7	2.0	2.9	3.6	4.7	5.7	6.2	6.4	7.1	7.7
22.5°	0.0	0.7	2.1	2.9	3.7	4.8	5.8	6.2	6.5	7.2	7.9
20°	0.0	0.8	2.1	3.0	3.7	4.9	5.9	6.2	6.6	7.3	8.0
17.5°	0.0	0.8	2.2	3.0	3.8	5.0	6.0	6.2	6.7	7.4	8.1
15°	0.0	0.8	2.2	3.0	3.8	5.1	6.0	6.2	6.8	7.5	8.2
12.5°	0.0	0.8	2.2	3.0	3.8	5.2	6.1	6.2	6.8	7.5	8.3
10°	0.0	0.8	2.3	3.1	3.9	5.3	6.1	6.2	6.9	7.6	8.4
7.5°	0.0	0.8	2.3	3.1	3.9	5.3	6.2	6.2	6.9	7.6	8.4
5°	0.0	0.8	2.3	3.1	3.9	5.4	6.2	6.2	7.0	7.7	8.5
2.5°	0.0	0.8	2.3	3.1	3.9	5.4	6.2	6.2	7.0	7.7	8.5
0°	0.0	0.8	2.3	3.1	3.9	5.4	6.2	6.2	7.0	7.7	8.5
-2.5°	0.0	0.8	2.3	3.1	3.9	5.4	6.2	6.2	7.0	7.7	8.5
-5°	0.0	0.8	2.3	3.1	3.9	5.4	6.2	6.2	7.0	7.7	8.5
-7.5°	0.0	0.8	2.3	3.1	3.9	5.3	6.2	6.2	6.9	7.6	8.4
-10°	0.0	0.8	2.3	3.1	3.9	5.3	6.1	6.2	6.9	7.6	8.4
-12.5°	0.0	0.8	2.2	3.0	3.8	5.2	6.1	6.2	6.8	7.5	8.3
-15°	0.0	0.8	2.2	3.0	3.8	5.1	6.0	6.2	6.8	7.5	8.2
-17.5°	0.0	0.8	2.2	3.0	3.8	5.0	6.0	6.2	6.7	7.4	8.1
-20°	0.0	0.8	2.1	3.0	3.7	4.9	5.9	6.2	6.6	7.3	8.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	0.7	2.1	2.9	3.7	4.8	5.8	6.2	6.5	7.2	7.9
-25°	0.0	0.7	2.0	2.9	3.6	4.7	5.7	6.2	6.4	7.1	7.7
-27.5°	0.0	0.7	2.0	2.8	3.5	4.5	5.6	6.2	6.3	6.9	7.6
-30°	0.0	0.7	1.9	2.8	3.5	4.4	5.5	6.2	6.2	6.8	7.4
-32.5°	0.0	0.7	1.8	2.7	3.4	4.2	5.4	6.1	6.2	6.6	7.2
-35°	0.0	0.7	1.8	2.7	3.3	4.0	5.2	6.0	6.2	6.4	7.1
-37.5°	0.0	0.6	1.7	2.6	3.2	3.9	5.0	5.8	6.2	6.3	6.9
-40°	0.0	0.6	1.6	2.5	3.1	3.8	4.8	5.7	6.2	6.2	6.6
-42.5°	0.0	0.6	1.5	2.5	3.1	3.6	4.5	5.5	6.1	6.2	6.4
-45°	0.0	0.6	1.4	2.4	3.0	3.5	4.2	5.3	5.9	6.2	6.2
-47.5°	0.0	0.5	1.3	2.3	2.9	3.4	3.9	4.9	5.7	6.2	6.2
-50°	0.0	0.5	1.2	2.2	2.8	3.3	3.8	4.6	5.5	6.0	6.2
-52.5°	0.0	0.5	1.1	2.0	2.6	3.1	3.6	4.2	5.1	5.7	6.2
-55°	0.0	0.5	1.0	1.9	2.5	3.0	3.4	3.9	4.7	5.5	5.9
-57.5°	0.0	0.4	0.9	1.7	2.4	2.8	3.3	3.7	4.3	5.0	5.6
-60°	0.0	0.4	0.8	1.5	2.3	2.7	3.1	3.5	3.9	4.5	5.2
-62.5°	0.0	0.4	0.7	1.4	2.1	2.5	2.9	3.3	3.6	4.0	4.7
-65°	0.0	0.3	0.7	1.2	1.8	2.4	2.7	3.0	3.4	3.7	4.1
-67.5°	0.0	0.3	0.6	1.0	1.6	2.2	2.5	2.8	3.1	3.4	3.7
-70°	0.0	0.3	0.5	0.8	1.3	1.8	2.3	2.6	2.8	3.1	3.4
-72.5°	0.0	0.2	0.5	0.7	1.1	1.5	2.0	2.4	2.6	2.8	3.0
-75°	0.0	0.2	0.4	0.6	0.8	1.2	1.6	2.0	2.3	2.5	2.7
-77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.4
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.1	1.3	1.6	1.8
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2
-85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	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):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
85°	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
82.5°	1.4	1.5	1.7	1.9	2.0	2.2	2.3	2.4	2.5	2.5	2.6
80°	2.1	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.1	3.2
77.5°	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.6	3.8	3.9
75°	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.2	4.5	4.8	5.0
72.5°	3.3	3.5	3.7	3.9	4.2	4.6	4.9	5.3	5.5	5.7	5.8
70°	3.6	3.9	4.3	4.7	5.1	5.5	5.7	5.9	6.1	6.2	6.2
67.5°	4.0	4.5	5.0	5.5	5.7	6.0	6.2	6.2	6.2	6.2	6.3
65°	4.7	5.2	5.6	5.9	6.2	6.2	6.2	6.2	6.4	6.6	6.9
62.5°	5.3	5.7	6.0	6.2	6.2	6.2	6.4	6.7	7.0	7.2	7.4
60°	5.7	6.0	6.2	6.2	6.3	6.6	6.9	7.2	7.5	7.7	8.0
57.5°	6.0	6.2	6.2	6.3	6.7	7.1	7.4	7.7	8.0	8.3	8.5
55°	6.2	6.2	6.3	6.7	7.1	7.5	7.8	8.2	8.5	8.5	8.5
52.5°	6.2	6.3	6.7	7.1	7.5	7.9	8.3	8.5	8.5	8.6	8.9
50°	6.2	6.6	7.1	7.5	7.9	8.3	8.5	8.5	8.8	9.1	9.5
47.5°	6.4	6.9	7.4	7.8	8.3	8.5	8.5	8.8	9.3	9.6	10.0
45°	6.7	7.2	7.7	8.2	8.5	8.5	8.8	9.3	9.7	10.1	10.5
42.5°	7.0	7.5	8.0	8.5	8.5	8.8	9.3	9.7	10.1	10.6	11.1
40°	7.2	7.7	8.3	8.5	8.6	9.1	9.6	10.1	10.6	11.1	11.6
37.5°	7.4	8.0	8.5	8.5	8.9	9.5	10.0	10.5	11.1	11.6	19.0
35°	7.6	8.2	8.5	8.7	9.3	9.8	10.4	10.9	11.5	18.3	29.8
32.5°	7.8	8.5	8.5	9.0	9.5	10.1	10.7	11.3	16.3	26.6	46.2
30°	8.0	8.5	8.6	9.2	9.8	10.4	11.1	12.9	22.3	41.3	63.2
27.5°	8.2	8.5	8.8	9.5	10.1	10.7	11.4	18.2	33.3	55.6	79.9
25°	8.4	8.5	9.0	9.7	10.3	11.0	12.9	23.2	45.4	70.4	94.9
22.5°	8.5	8.5	9.2	9.9	10.6	11.3	17.1	32.7	57.3	84.0	108.5
20°	8.5	8.7	9.4	10.0	10.8	11.5	21.0	42.2	68.9	95.7	122.4
17.5°	8.5	8.8	9.5	10.2	11.0	13.1	25.2	50.8	79.4	106.2	135.5
15°	8.5	8.9	9.7	10.4	11.1	15.9	32.1	59.1	88.2	115.9	147.2
12.5°	8.5	9.1	9.8	10.5	11.3	18.3	38.0	66.4	95.6	125.1	160.2
10°	8.5	9.1	9.8	10.6	11.4	20.3	43.0	72.5	101.7	132.8	171.1
7.5°	8.5	9.2	9.9	10.7	11.5	21.9	46.8	77.2	106.5	138.9	179.6
5°	8.5	9.3	10.0	10.8	11.5	23.0	49.6	80.6	110.0	143.3	185.8
2.5°	8.5	9.3	10.0	10.8	11.6	23.7	51.2	82.7	112.1	145.9	189.6
0°	8.5	9.3	10.0	10.8	11.6	23.9	51.8	83.4	112.8	146.8	190.8
-2.5°	8.5	9.3	10.0	10.8	11.6	23.7	51.2	82.7	112.1	145.9	189.6
-5°	8.5	9.3	10.0	10.8	11.5	23.0	49.6	80.6	110.0	143.3	185.8
-7.5°	8.5	9.2	9.9	10.7	11.5	21.9	46.8	77.2	106.5	138.9	179.6
-10°	8.5	9.1	9.8	10.6	11.4	20.3	43.0	72.5	101.7	132.8	171.1
-12.5°	8.5	9.1	9.8	10.5	11.3	18.3	38.0	66.4	95.6	125.1	160.2
-15°	8.5	8.9	9.7	10.4	11.1	15.9	32.1	59.1	88.2	115.9	147.2
-17.5°	8.5	8.8	9.5	10.2	11.0	13.1	25.2	50.8	79.4	106.2	135.5
-20°	8.5	8.7	9.4	10.0	10.8	11.5	21.0	42.2	68.9	95.7	122.4



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	8.5	8.5	9.2	9.9	10.6	11.3	17.1	32.7	57.3	84.0	108.5
-25°	8.4	8.5	9.0	9.7	10.3	11.0	12.9	23.2	45.4	70.4	94.9
-27.5°	8.2	8.5	8.8	9.5	10.1	10.7	11.4	18.2	33.3	55.6	79.9
-30°	8.0	8.5	8.6	9.2	9.8	10.4	11.1	12.9	22.3	41.3	63.2
-32.5°	7.8	8.5	8.5	9.0	9.5	10.1	10.7	11.3	16.3	26.6	46.2
-35°	7.6	8.2	8.5	8.7	9.3	9.8	10.4	10.9	11.5	18.3	29.8
-37.5°	7.4	8.0	8.5	8.5	8.9	9.5	10.0	10.5	11.1	11.6	19.0
-40°	7.2	7.7	8.3	8.5	8.6	9.1	9.6	10.1	10.6	11.1	11.6
-42.5°	7.0	7.5	8.0	8.5	8.5	8.8	9.3	9.7	10.1	10.6	11.1
-45°	6.7	7.2	7.7	8.2	8.5	8.5	8.8	9.3	9.7	10.1	10.5
-47.5°	6.4	6.9	7.4	7.8	8.3	8.5	8.5	8.8	9.3	9.6	10.0
-50°	6.2	6.6	7.1	7.5	7.9	8.3	8.5	8.5	8.8	9.1	9.5
-52.5°	6.2	6.3	6.7	7.1	7.5	7.9	8.3	8.5	8.5	8.6	8.9
-55°	6.2	6.2	6.3	6.7	7.1	7.5	7.8	8.2	8.5	8.5	8.5
-57.5°	6.0	6.2	6.2	6.3	6.7	7.1	7.4	7.7	8.0	8.3	8.5
-60°	5.7	6.0	6.2	6.2	6.3	6.6	6.9	7.2	7.5	7.7	8.0
-62.5°	5.3	5.7	6.0	6.2	6.2	6.2	6.4	6.7	7.0	7.2	7.4
-65°	4.7	5.2	5.6	5.9	6.2	6.2	6.2	6.2	6.4	6.6	6.9
-67.5°	4.0	4.5	5.0	5.5	5.7	6.0	6.2	6.2	6.2	6.2	6.3
-70°	3.6	3.9	4.3	4.7	5.1	5.5	5.7	5.9	6.1	6.2	6.2
-72.5°	3.3	3.5	3.7	3.9	4.2	4.6	4.9	5.3	5.5	5.7	5.8
-75°	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.2	4.5	4.8	5.0
-77.5°	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.6	3.8	3.9
-80°	2.1	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.1	3.2
-82.5°	1.4	1.5	1.7	1.9	2.0	2.2	2.3	2.4	2.5	2.5	2.6
-85°	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
-87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
-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):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.3
82.5°	2.7	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.0	3.1
80°	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.8	3.9
77.5°	4.0	4.2	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.3
75°	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1
72.5°	6.0	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.8	6.9
67.5°	6.4	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6
65°	7.1	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4
62.5°	7.6	7.8	8.0	8.2	8.4	8.5	8.5	8.5	8.5	8.5	8.5
60°	8.2	8.5	8.5	8.5	8.5	8.5	8.7	8.8	8.9	9.1	9.1
57.5°	8.5	8.5	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.8
55°	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2	10.4	10.5	10.6
52.5°	9.3	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4
50°	9.8	10.1	10.4	10.7	11.0	11.3	11.5	13.1	15.9	18.3	20.3
47.5°	10.4	10.7	11.1	11.4	12.9	17.1	21.0	25.2	32.1	38.0	43.0
45°	10.9	11.3	12.9	18.2	23.2	32.7	42.2	50.8	59.1	66.4	72.5
42.5°	11.5	16.3	22.3	33.3	45.4	57.3	68.9	79.4	88.2	95.6	101.7
40°	18.3	26.6	41.3	55.6	70.4	84.0	95.7	106.2	115.9	125.1	132.8
37.5°	29.8	46.2	63.2	79.9	94.9	108.5	122.4	135.5	147.2	160.2	171.1
35°	47.8	67.0	85.6	102.2	118.7	135.7	152.6	171.0	187.3	203.3	217.2
32.5°	67.0	87.4	106.0	125.4	144.8	167.7	189.4	212.5	233.3	252.6	269.8
30°	85.6	106.0	127.6	150.1	176.9	204.1	231.6	258.7	284.3	307.3	328.5
27.5°	102.2	125.4	150.1	180.0	211.6	243.4	276.9	308.6	340.0	367.6	392.0
25°	118.7	144.8	176.9	211.6	247.9	286.2	325.0	362.6	398.6	433.2	458.2
22.5°	135.7	167.7	204.1	243.4	286.2	330.5	374.6	420.2	457.7	486.6	509.2
20°	152.6	189.4	231.6	276.9	325.0	374.6	427.4	469.4	503.0	531.0	555.3
17.5°	171.0	212.5	258.7	308.6	362.6	420.2	469.4	508.4	542.2	574.0	601.0
15°	187.3	233.3	284.3	340.0	398.6	457.7	503.0	542.2	580.5	614.8	648.3
12.5°	203.3	252.6	307.3	367.6	433.2	486.6	531.0	574.0	614.8	656.8	697.1
10°	217.2	269.8	328.5	392.0	458.2	509.2	555.3	601.0	648.3	697.1	740.8
7.5°	228.2	283.4	345.4	413.7	476.7	526.8	575.9	624.4	678.0	731.0	770.7
5°	236.2	293.3	357.7	429.4	489.1	539.6	590.7	643.3	701.2	753.5	791.6
2.5°	241.0	299.3	365.2	437.6	496.6	547.7	599.6	655.3	715.8	766.2	805.0
0°	242.6	301.3	367.7	440.4	499.1	550.5	602.6	659.4	720.8	770.3	809.7
-2.5°	241.0	299.3	365.2	437.6	496.6	547.7	599.6	655.3	715.8	766.2	805.0
-5°	236.2	293.3	357.7	429.4	489.1	539.6	590.7	643.3	701.2	753.5	791.6
-7.5°	228.2	283.4	345.4	413.7	476.7	526.8	575.9	624.4	678.0	731.0	770.7
-10°	217.2	269.8	328.5	392.0	458.2	509.2	555.3	601.0	648.3	697.1	740.8
-12.5°	203.3	252.6	307.3	367.6	433.2	486.6	531.0	574.0	614.8	656.8	697.1
-15°	187.3	233.3	284.3	340.0	398.6	457.7	503.0	542.2	580.5	614.8	648.3
-17.5°	171.0	212.5	258.7	308.6	362.6	420.2	469.4	508.4	542.2	574.0	601.0
-20°	152.6	189.4	231.6	276.9	325.0	374.6	427.4	469.4	503.0	531.0	555.3



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	135.7	167.7	204.1	243.4	286.2	330.5	374.6	420.2	457.7	486.6	509.2
-25°	118.7	144.8	176.9	211.6	247.9	286.2	325.0	362.6	398.6	433.2	458.2
-27.5°	102.2	125.4	150.1	180.0	211.6	243.4	276.9	308.6	340.0	367.6	392.0
-30°	85.6	106.0	127.6	150.1	176.9	204.1	231.6	258.7	284.3	307.3	328.5
-32.5°	67.0	87.4	106.0	125.4	144.8	167.7	189.4	212.5	233.3	252.6	269.8
-35°	47.8	67.0	85.6	102.2	118.7	135.7	152.6	171.0	187.3	203.3	217.2
-37.5°	29.8	46.2	63.2	79.9	94.9	108.5	122.4	135.5	147.2	160.2	171.1
-40°	18.3	26.6	41.3	55.6	70.4	84.0	95.7	106.2	115.9	125.1	132.8
-42.5°	11.5	16.3	22.3	33.3	45.4	57.3	68.9	79.4	88.2	95.6	101.7
-45°	10.9	11.3	12.9	18.2	23.2	32.7	42.2	50.8	59.1	66.4	72.5
-47.5°	10.4	10.7	11.1	11.4	12.9	17.1	21.0	25.2	32.1	38.0	43.0
-50°	9.8	10.1	10.4	10.7	11.0	11.3	11.5	13.1	15.9	18.3	20.3
-52.5°	9.3	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4
-55°	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2	10.4	10.5	10.6
-57.5°	8.5	8.5	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.8
-60°	8.2	8.5	8.5	8.5	8.5	8.5	8.7	8.8	8.9	9.1	9.1
-62.5°	7.6	7.8	8.0	8.2	8.4	8.5	8.5	8.5	8.5	8.5	8.5
-65°	7.1	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4
-67.5°	6.4	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6
-70°	6.2	6.2	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.8	6.9
-72.5°	6.0	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-75°	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1
-77.5°	4.0	4.2	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.3
-80°	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.8	3.9
-82.5°	2.7	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.0	3.1
-85°	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.3
-87.5°	0.7	0.7	0.7	0.7	0.7	0.7	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):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8
77.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	6.0
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
70°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
67.5°	7.6	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.5	7.5	7.4
65°	8.4	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.1
62.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
60°	9.2	9.3	9.3	9.3	9.3	9.3	9.2	9.1	9.1	8.9	8.8
57.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.6	10.5	10.4	10.2
52.5°	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.4	11.3	11.1	11.0
50°	21.9	23.0	23.7	23.9	23.7	23.0	21.9	20.3	18.3	15.9	13.1
47.5°	46.8	49.6	51.2	51.8	51.2	49.6	46.8	43.0	38.0	32.1	25.2
45°	77.2	80.6	82.7	83.4	82.7	80.6	77.2	72.5	66.4	59.1	50.8
42.5°	106.5	110.0	112.1	112.8	112.1	110.0	106.5	101.7	95.6	88.2	79.4
40°	138.9	143.3	145.9	146.8	145.9	143.3	138.9	132.8	125.1	115.9	106.2
37.5°	179.6	185.8	189.6	190.8	189.6	185.8	179.6	171.1	160.2	147.2	135.5
35°	228.2	236.2	241.0	242.6	241.0	236.2	228.2	217.2	203.3	187.3	171.0
32.5°	283.4	293.3	299.3	301.3	299.3	293.3	283.4	269.8	252.6	233.3	212.5
30°	345.4	357.7	365.2	367.7	365.2	357.7	345.4	328.5	307.3	284.3	258.7
27.5°	413.7	429.4	437.6	440.4	437.6	429.4	413.7	392.0	367.6	340.0	308.6
25°	476.7	489.1	496.6	499.1	496.6	489.1	476.7	458.2	433.2	398.6	362.6
22.5°	526.8	539.6	547.7	550.5	547.7	539.6	526.8	509.2	486.6	457.7	420.2
20°	575.9	590.7	599.6	602.6	599.6	590.7	575.9	555.3	531.0	503.0	469.4
17.5°	624.4	643.3	655.3	659.4	655.3	643.3	624.4	601.0	574.0	542.2	508.4
15°	678.0	701.2	715.8	720.8	715.8	701.2	678.0	648.3	614.8	580.5	542.2
12.5°	731.0	753.5	766.2	770.3	766.2	753.5	731.0	697.1	656.8	614.8	574.0
10°	770.7	791.6	805.0	809.7	805.0	791.6	770.7	740.8	697.1	648.3	601.0
7.5°	800.5	823.5	835.9	839.1	835.9	823.5	800.5	770.7	731.0	678.0	624.4
5°	823.5	842.4	843.1	841.3	843.1	842.4	823.5	791.6	753.5	701.2	643.3
2.5°	835.9	843.1	831.9	825.1	831.9	843.1	835.9	805.0	766.2	715.8	655.3
0°	839.1	841.3	825.1	822.8	825.1	841.3	839.1	809.7	770.3	720.8	659.4
-2.5°	835.9	843.1	831.9	825.1	831.9	843.1	835.9	805.0	766.2	715.8	655.3
-5°	823.5	842.4	843.1	841.3	843.1	842.4	823.5	791.6	753.5	701.2	643.3
-7.5°	800.5	823.5	835.9	839.1	835.9	823.5	800.5	770.7	731.0	678.0	624.4
-10°	770.7	791.6	805.0	809.7	805.0	791.6	770.7	740.8	697.1	648.3	601.0
-12.5°	731.0	753.5	766.2	770.3	766.2	753.5	731.0	697.1	656.8	614.8	574.0
-15°	678.0	701.2	715.8	720.8	715.8	701.2	678.0	648.3	614.8	580.5	542.2
-17.5°	624.4	643.3	655.3	659.4	655.3	643.3	624.4	601.0	574.0	542.2	508.4
-20°	575.9	590.7	599.6	602.6	599.6	590.7	575.9	555.3	531.0	503.0	469.4



REPORT NUMBER: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	526.8	539.6	547.7	550.5	547.7	539.6	526.8	509.2	486.6	457.7	420.2
-25°	476.7	489.1	496.6	499.1	496.6	489.1	476.7	458.2	433.2	398.6	362.6
-27.5°	413.7	429.4	437.6	440.4	437.6	429.4	413.7	392.0	367.6	340.0	308.6
-30°	345.4	357.7	365.2	367.7	365.2	357.7	345.4	328.5	307.3	284.3	258.7
-32.5°	283.4	293.3	299.3	301.3	299.3	293.3	283.4	269.8	252.6	233.3	212.5
-35°	228.2	236.2	241.0	242.6	241.0	236.2	228.2	217.2	203.3	187.3	171.0
-37.5°	179.6	185.8	189.6	190.8	189.6	185.8	179.6	171.1	160.2	147.2	135.5
-40°	138.9	143.3	145.9	146.8	145.9	143.3	138.9	132.8	125.1	115.9	106.2
-42.5°	106.5	110.0	112.1	112.8	112.1	110.0	106.5	101.7	95.6	88.2	79.4
-45°	77.2	80.6	82.7	83.4	82.7	80.6	77.2	72.5	66.4	59.1	50.8
-47.5°	46.8	49.6	51.2	51.8	51.2	49.6	46.8	43.0	38.0	32.1	25.2
-50°	21.9	23.0	23.7	23.9	23.7	23.0	21.9	20.3	18.3	15.9	13.1
-52.5°	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.4	11.3	11.1	11.0
-55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.6	10.5	10.4	10.2
-57.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
-60°	9.2	9.3	9.3	9.3	9.3	9.3	9.2	9.1	9.1	8.9	8.8
-62.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
-65°	8.4	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.1
-67.5°	7.6	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.5	7.5	7.4
-70°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
-72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	6.0
-77.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0
-80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8
-82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
-85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
-87.5°	0.8	0.8	0.8	0.8	0.8	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



REPORT NUMBER: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
85°	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4
82.5°	3.0	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4
80°	3.7	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	3.1	3.0
77.5°	4.9	4.8	4.7	4.5	4.4	4.2	4.0	3.9	3.8	3.6	3.5
75°	5.9	5.8	5.7	5.6	5.5	5.4	5.2	5.0	4.8	4.5	4.2
72.5°	6.2	6.2	6.2	6.2	6.2	6.1	6.0	5.8	5.7	5.5	5.3
70°	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.2	6.2	6.1	5.9
67.5°	7.3	7.2	7.1	6.9	6.8	6.6	6.4	6.3	6.2	6.2	6.2
65°	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.6	6.4	6.2
62.5°	8.5	8.5	8.4	8.2	8.0	7.8	7.6	7.4	7.2	7.0	6.7
60°	8.7	8.5	8.5	8.5	8.5	8.5	8.2	8.0	7.7	7.5	7.2
57.5°	9.4	9.2	9.0	8.8	8.6	8.5	8.5	8.5	8.3	8.0	7.7
55°	10.0	9.9	9.7	9.5	9.2	9.0	8.7	8.5	8.5	8.5	8.2
52.5°	10.8	10.6	10.3	10.1	9.8	9.5	9.3	8.9	8.6	8.5	8.5
50°	11.5	11.3	11.0	10.7	10.4	10.1	9.8	9.5	9.1	8.8	8.5
47.5°	21.0	17.1	12.9	11.4	11.1	10.7	10.4	10.0	9.6	9.3	8.8
45°	42.2	32.7	23.2	18.2	12.9	11.3	10.9	10.5	10.1	9.7	9.3
42.5°	68.9	57.3	45.4	33.3	22.3	16.3	11.5	11.1	10.6	10.1	9.7
40°	95.7	84.0	70.4	55.6	41.3	26.6	18.3	11.6	11.1	10.6	10.1
37.5°	122.4	108.5	94.9	79.9	63.2	46.2	29.8	19.0	11.6	11.1	10.5
35°	152.6	135.7	118.7	102.2	85.6	67.0	47.8	29.8	18.3	11.5	10.9
32.5°	189.4	167.7	144.8	125.4	106.0	87.4	67.0	46.2	26.6	16.3	11.3
30°	231.6	204.1	176.9	150.1	127.6	106.0	85.6	63.2	41.3	22.3	12.9
27.5°	276.9	243.4	211.6	180.0	150.1	125.4	102.2	79.9	55.6	33.3	18.2
25°	325.0	286.2	247.9	211.6	176.9	144.8	118.7	94.9	70.4	45.4	23.2
22.5°	374.6	330.5	286.2	243.4	204.1	167.7	135.7	108.5	84.0	57.3	32.7
20°	427.4	374.6	325.0	276.9	231.6	189.4	152.6	122.4	95.7	68.9	42.2
17.5°	469.4	420.2	362.6	308.6	258.7	212.5	171.0	135.5	106.2	79.4	50.8
15°	503.0	457.7	398.6	340.0	284.3	233.3	187.3	147.2	115.9	88.2	59.1
12.5°	531.0	486.6	433.2	367.6	307.3	252.6	203.3	160.2	125.1	95.6	66.4
10°	555.3	509.2	458.2	392.0	328.5	269.8	217.2	171.1	132.8	101.7	72.5
7.5°	575.9	526.8	476.7	413.7	345.4	283.4	228.2	179.6	138.9	106.5	77.2
5°	590.7	539.6	489.1	429.4	357.7	293.3	236.2	185.8	143.3	110.0	80.6
2.5°	599.6	547.7	496.6	437.6	365.2	299.3	241.0	189.6	145.9	112.1	82.7
0°	602.6	550.5	499.1	440.4	367.7	301.3	242.6	190.8	146.8	112.8	83.4
-2.5°	599.6	547.7	496.6	437.6	365.2	299.3	241.0	189.6	145.9	112.1	82.7
-5°	590.7	539.6	489.1	429.4	357.7	293.3	236.2	185.8	143.3	110.0	80.6
-7.5°	575.9	526.8	476.7	413.7	345.4	283.4	228.2	179.6	138.9	106.5	77.2
-10°	555.3	509.2	458.2	392.0	328.5	269.8	217.2	171.1	132.8	101.7	72.5
-12.5°	531.0	486.6	433.2	367.6	307.3	252.6	203.3	160.2	125.1	95.6	66.4
-15°	503.0	457.7	398.6	340.0	284.3	233.3	187.3	147.2	115.9	88.2	59.1
-17.5°	469.4	420.2	362.6	308.6	258.7	212.5	171.0	135.5	106.2	79.4	50.8
-20°	427.4	374.6	325.0	276.9	231.6	189.4	152.6	122.4	95.7	68.9	42.2



REPORT NUMBER: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	374.6	330.5	286.2	243.4	204.1	167.7	135.7	108.5	84.0	57.3	32.7
-25°	325.0	286.2	247.9	211.6	176.9	144.8	118.7	94.9	70.4	45.4	23.2
-27.5°	276.9	243.4	211.6	180.0	150.1	125.4	102.2	79.9	55.6	33.3	18.2
-30°	231.6	204.1	176.9	150.1	127.6	106.0	85.6	63.2	41.3	22.3	12.9
-32.5°	189.4	167.7	144.8	125.4	106.0	87.4	67.0	46.2	26.6	16.3	11.3
-35°	152.6	135.7	118.7	102.2	85.6	67.0	47.8	29.8	18.3	11.5	10.9
-37.5°	122.4	108.5	94.9	79.9	63.2	46.2	29.8	19.0	11.6	11.1	10.5
-40°	95.7	84.0	70.4	55.6	41.3	26.6	18.3	11.6	11.1	10.6	10.1
-42.5°	68.9	57.3	45.4	33.3	22.3	16.3	11.5	11.1	10.6	10.1	9.7
-45°	42.2	32.7	23.2	18.2	12.9	11.3	10.9	10.5	10.1	9.7	9.3
-47.5°	21.0	17.1	12.9	11.4	11.1	10.7	10.4	10.0	9.6	9.3	8.8
-50°	11.5	11.3	11.0	10.7	10.4	10.1	9.8	9.5	9.1	8.8	8.5
-52.5°	10.8	10.6	10.3	10.1	9.8	9.5	9.3	8.9	8.6	8.5	8.5
-55°	10.0	9.9	9.7	9.5	9.2	9.0	8.7	8.5	8.5	8.5	8.2
-57.5°	9.4	9.2	9.0	8.8	8.6	8.5	8.5	8.5	8.3	8.0	7.7
-60°	8.7	8.5	8.5	8.5	8.5	8.5	8.2	8.0	7.7	7.5	7.2
-62.5°	8.5	8.5	8.4	8.2	8.0	7.8	7.6	7.4	7.2	7.0	6.7
-65°	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.6	6.4	6.2
-67.5°	7.3	7.2	7.1	6.9	6.8	6.6	6.4	6.3	6.2	6.2	6.2
-70°	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.2	6.2	6.1	5.9
-72.5°	6.2	6.2	6.2	6.2	6.2	6.1	6.0	5.8	5.7	5.5	5.3
-75°	5.9	5.8	5.7	5.6	5.5	5.4	5.2	5.0	4.8	4.5	4.2
-77.5°	4.9	4.8	4.7	4.5	4.4	4.2	4.0	3.9	3.8	3.6	3.5
-80°	3.7	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	3.1	3.0
-82.5°	3.0	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4
-85°	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4
-87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
-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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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
85°	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	2.3	2.2	2.0	1.9	1.7	1.5	1.4	1.2	1.0	0.8	0.7
80°	2.9	2.8	2.6	2.5	2.4	2.3	2.1	1.8	1.6	1.3	1.1
77.5°	3.4	3.3	3.1	3.0	2.8	2.7	2.5	2.4	2.2	1.8	1.5
75°	3.9	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	2.3	2.0
72.5°	4.9	4.6	4.2	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.4
70°	5.7	5.5	5.1	4.7	4.3	3.9	3.6	3.4	3.1	2.8	2.6
67.5°	6.2	6.0	5.7	5.5	5.0	4.5	4.0	3.7	3.4	3.1	2.8
65°	6.2	6.2	6.2	5.9	5.6	5.2	4.7	4.1	3.7	3.4	3.0
62.5°	6.4	6.2	6.2	6.2	6.0	5.7	5.3	4.7	4.0	3.6	3.3
60°	6.9	6.6	6.3	6.2	6.2	6.0	5.7	5.2	4.5	3.9	3.5
57.5°	7.4	7.1	6.7	6.3	6.2	6.2	6.0	5.6	5.0	4.3	3.7
55°	7.8	7.5	7.1	6.7	6.3	6.2	6.2	5.9	5.5	4.7	3.9
52.5°	8.3	7.9	7.5	7.1	6.7	6.3	6.2	6.2	5.7	5.1	4.2
50°	8.5	8.3	7.9	7.5	7.1	6.6	6.2	6.2	6.0	5.5	4.6
47.5°	8.5	8.5	8.3	7.8	7.4	6.9	6.4	6.2	6.2	5.7	4.9
45°	8.8	8.5	8.5	8.2	7.7	7.2	6.7	6.2	6.2	5.9	5.3
42.5°	9.3	8.8	8.5	8.5	8.0	7.5	7.0	6.4	6.2	6.1	5.5
40°	9.6	9.1	8.6	8.5	8.3	7.7	7.2	6.6	6.2	6.2	5.7
37.5°	10.0	9.5	8.9	8.5	8.5	8.0	7.4	6.9	6.3	6.2	5.8
35°	10.4	9.8	9.3	8.7	8.5	8.2	7.6	7.1	6.4	6.2	6.0
32.5°	10.7	10.1	9.5	9.0	8.5	8.5	7.8	7.2	6.6	6.2	6.1
30°	11.1	10.4	9.8	9.2	8.6	8.5	8.0	7.4	6.8	6.2	6.2
27.5°	11.4	10.7	10.1	9.5	8.8	8.5	8.2	7.6	6.9	6.3	6.2
25°	12.9	11.0	10.3	9.7	9.0	8.5	8.4	7.7	7.1	6.4	6.2
22.5°	17.1	11.3	10.6	9.9	9.2	8.5	8.5	7.9	7.2	6.5	6.2
20°	21.0	11.5	10.8	10.0	9.4	8.7	8.5	8.0	7.3	6.6	6.2
17.5°	25.2	13.1	11.0	10.2	9.5	8.8	8.5	8.1	7.4	6.7	6.2
15°	32.1	15.9	11.1	10.4	9.7	8.9	8.5	8.2	7.5	6.8	6.2
12.5°	38.0	18.3	11.3	10.5	9.8	9.1	8.5	8.3	7.5	6.8	6.2
10°	43.0	20.3	11.4	10.6	9.8	9.1	8.5	8.4	7.6	6.9	6.2
7.5°	46.8	21.9	11.5	10.7	9.9	9.2	8.5	8.4	7.6	6.9	6.2
5°	49.6	23.0	11.5	10.8	10.0	9.3	8.5	8.5	7.7	7.0	6.2
2.5°	51.2	23.7	11.6	10.8	10.0	9.3	8.5	8.5	7.7	7.0	6.2
0°	51.8	23.9	11.6	10.8	10.0	9.3	8.5	8.5	7.7	7.0	6.2
-2.5°	51.2	23.7	11.6	10.8	10.0	9.3	8.5	8.5	7.7	7.0	6.2
-5°	49.6	23.0	11.5	10.8	10.0	9.3	8.5	8.5	7.7	7.0	6.2
-7.5°	46.8	21.9	11.5	10.7	9.9	9.2	8.5	8.4	7.6	6.9	6.2
-10°	43.0	20.3	11.4	10.6	9.8	9.1	8.5	8.4	7.6	6.9	6.2
-12.5°	38.0	18.3	11.3	10.5	9.8	9.1	8.5	8.3	7.5	6.8	6.2
-15°	32.1	15.9	11.1	10.4	9.7	8.9	8.5	8.2	7.5	6.8	6.2
-17.5°	25.2	13.1	11.0	10.2	9.5	8.8	8.5	8.1	7.4	6.7	6.2
-20°	21.0	11.5	10.8	10.0	9.4	8.7	8.5	8.0	7.3	6.6	6.2



REPORT NUMBER: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	17.1	11.3	10.6	9.9	9.2	8.5	8.5	7.9	7.2	6.5	6.2
-25°	12.9	11.0	10.3	9.7	9.0	8.5	8.4	7.7	7.1	6.4	6.2
-27.5°	11.4	10.7	10.1	9.5	8.8	8.5	8.2	7.6	6.9	6.3	6.2
-30°	11.1	10.4	9.8	9.2	8.6	8.5	8.0	7.4	6.8	6.2	6.2
-32.5°	10.7	10.1	9.5	9.0	8.5	8.5	7.8	7.2	6.6	6.2	6.1
-35°	10.4	9.8	9.3	8.7	8.5	8.2	7.6	7.1	6.4	6.2	6.0
-37.5°	10.0	9.5	8.9	8.5	8.5	8.0	7.4	6.9	6.3	6.2	5.8
-40°	9.6	9.1	8.6	8.5	8.3	7.7	7.2	6.6	6.2	6.2	5.7
-42.5°	9.3	8.8	8.5	8.5	8.0	7.5	7.0	6.4	6.2	6.1	5.5
-45°	8.8	8.5	8.5	8.2	7.7	7.2	6.7	6.2	6.2	5.9	5.3
-47.5°	8.5	8.5	8.3	7.8	7.4	6.9	6.4	6.2	6.2	5.7	4.9
-50°	8.5	8.3	7.9	7.5	7.1	6.6	6.2	6.2	6.0	5.5	4.6
-52.5°	8.3	7.9	7.5	7.1	6.7	6.3	6.2	6.2	5.7	5.1	4.2
-55°	7.8	7.5	7.1	6.7	6.3	6.2	6.2	5.9	5.5	4.7	3.9
-57.5°	7.4	7.1	6.7	6.3	6.2	6.2	6.0	5.6	5.0	4.3	3.7
-60°	6.9	6.6	6.3	6.2	6.2	6.0	5.7	5.2	4.5	3.9	3.5
-62.5°	6.4	6.2	6.2	6.2	6.0	5.7	5.3	4.7	4.0	3.6	3.3
-65°	6.2	6.2	6.2	5.9	5.6	5.2	4.7	4.1	3.7	3.4	3.0
-67.5°	6.2	6.0	5.7	5.5	5.0	4.5	4.0	3.7	3.4	3.1	2.8
-70°	5.7	5.5	5.1	4.7	4.3	3.9	3.6	3.4	3.1	2.8	2.6
-72.5°	4.9	4.6	4.2	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.4
-75°	3.9	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	2.3	2.0
-77.5°	3.4	3.3	3.1	3.0	2.8	2.7	2.5	2.4	2.2	1.8	1.5
-80°	2.9	2.8	2.6	2.5	2.4	2.3	2.1	1.8	1.6	1.3	1.1
-82.5°	2.3	2.2	2.0	1.9	1.7	1.5	1.4	1.2	1.0	0.8	0.7
-85°	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5
-87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	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: P220334 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
77.5°	1.2	0.9	0.7	0.5	0.3	0.2	0.0
75°	1.6	1.2	0.8	0.6	0.4	0.2	0.0
72.5°	2.0	1.5	1.1	0.7	0.5	0.2	0.0
70°	2.3	1.8	1.3	0.8	0.5	0.3	0.0
67.5°	2.5	2.2	1.6	1.0	0.6	0.3	0.0
65°	2.7	2.4	1.8	1.2	0.7	0.3	0.0
62.5°	2.9	2.5	2.1	1.4	0.7	0.4	0.0
60°	3.1	2.7	2.3	1.5	0.8	0.4	0.0
57.5°	3.3	2.8	2.4	1.7	0.9	0.4	0.0
55°	3.4	3.0	2.5	1.9	1.0	0.5	0.0
52.5°	3.6	3.1	2.6	2.0	1.1	0.5	0.0
50°	3.8	3.3	2.8	2.2	1.2	0.5	0.0
47.5°	3.9	3.4	2.9	2.3	1.3	0.5	0.0
45°	4.2	3.5	3.0	2.4	1.4	0.6	0.0
42.5°	4.5	3.6	3.1	2.5	1.5	0.6	0.0
40°	4.8	3.8	3.1	2.5	1.6	0.6	0.0
37.5°	5.0	3.9	3.2	2.6	1.7	0.6	0.0
35°	5.2	4.0	3.3	2.7	1.8	0.7	0.0
32.5°	5.4	4.2	3.4	2.7	1.8	0.7	0.0
30°	5.5	4.4	3.5	2.8	1.9	0.7	0.0
27.5°	5.6	4.5	3.5	2.8	2.0	0.7	0.0
25°	5.7	4.7	3.6	2.9	2.0	0.7	0.0
22.5°	5.8	4.8	3.7	2.9	2.1	0.7	0.0
20°	5.9	4.9	3.7	3.0	2.1	0.8	0.0
17.5°	6.0	5.0	3.8	3.0	2.2	0.8	0.0
15°	6.0	5.1	3.8	3.0	2.2	0.8	0.0
12.5°	6.1	5.2	3.8	3.0	2.2	0.8	0.0
10°	6.1	5.3	3.9	3.1	2.3	0.8	0.0
7.5°	6.2	5.3	3.9	3.1	2.3	0.8	0.0
5°	6.2	5.4	3.9	3.1	2.3	0.8	0.0
2.5°	6.2	5.4	3.9	3.1	2.3	0.8	0.0
0°	6.2	5.4	3.9	3.1	2.3	0.8	0.0
-2.5°	6.2	5.4	3.9	3.1	2.3	0.8	0.0
-5°	6.2	5.4	3.9	3.1	2.3	0.8	0.0
-7.5°	6.2	5.3	3.9	3.1	2.3	0.8	0.0
-10°	6.1	5.3	3.9	3.1	2.3	0.8	0.0
-12.5°	6.1	5.2	3.8	3.0	2.2	0.8	0.0
-15°	6.0	5.1	3.8	3.0	2.2	0.8	0.0
-17.5°	6.0	5.0	3.8	3.0	2.2	0.8	0.0
-20°	5.9	4.9	3.7	3.0	2.1	0.8	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	5.8	4.8	3.7	2.9	2.1	0.7	0.0
-25°	5.7	4.7	3.6	2.9	2.0	0.7	0.0
-27.5°	5.6	4.5	3.5	2.8	2.0	0.7	0.0
-30°	5.5	4.4	3.5	2.8	1.9	0.7	0.0
-32.5°	5.4	4.2	3.4	2.7	1.8	0.7	0.0
-35°	5.2	4.0	3.3	2.7	1.8	0.7	0.0
-37.5°	5.0	3.9	3.2	2.6	1.7	0.6	0.0
-40°	4.8	3.8	3.1	2.5	1.6	0.6	0.0
-42.5°	4.5	3.6	3.1	2.5	1.5	0.6	0.0
-45°	4.2	3.5	3.0	2.4	1.4	0.6	0.0
-47.5°	3.9	3.4	2.9	2.3	1.3	0.5	0.0
-50°	3.8	3.3	2.8	2.2	1.2	0.5	0.0
-52.5°	3.6	3.1	2.6	2.0	1.1	0.5	0.0
-55°	3.4	3.0	2.5	1.9	1.0	0.5	0.0
-57.5°	3.3	2.8	2.4	1.7	0.9	0.4	0.0
-60°	3.1	2.7	2.3	1.5	0.8	0.4	0.0
-62.5°	2.9	2.5	2.1	1.4	0.7	0.4	0.0
-65°	2.7	2.4	1.8	1.2	0.7	0.3	0.0
-67.5°	2.5	2.2	1.6	1.0	0.6	0.3	0.0
-70°	2.3	1.8	1.3	0.8	0.5	0.3	0.0
-72.5°	2.0	1.5	1.1	0.7	0.5	0.2	0.0
-75°	1.6	1.2	0.8	0.6	0.4	0.2	0.0
-77.5°	1.2	0.9	0.7	0.5	0.3	0.2	0.0
-80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
-85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)