

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: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

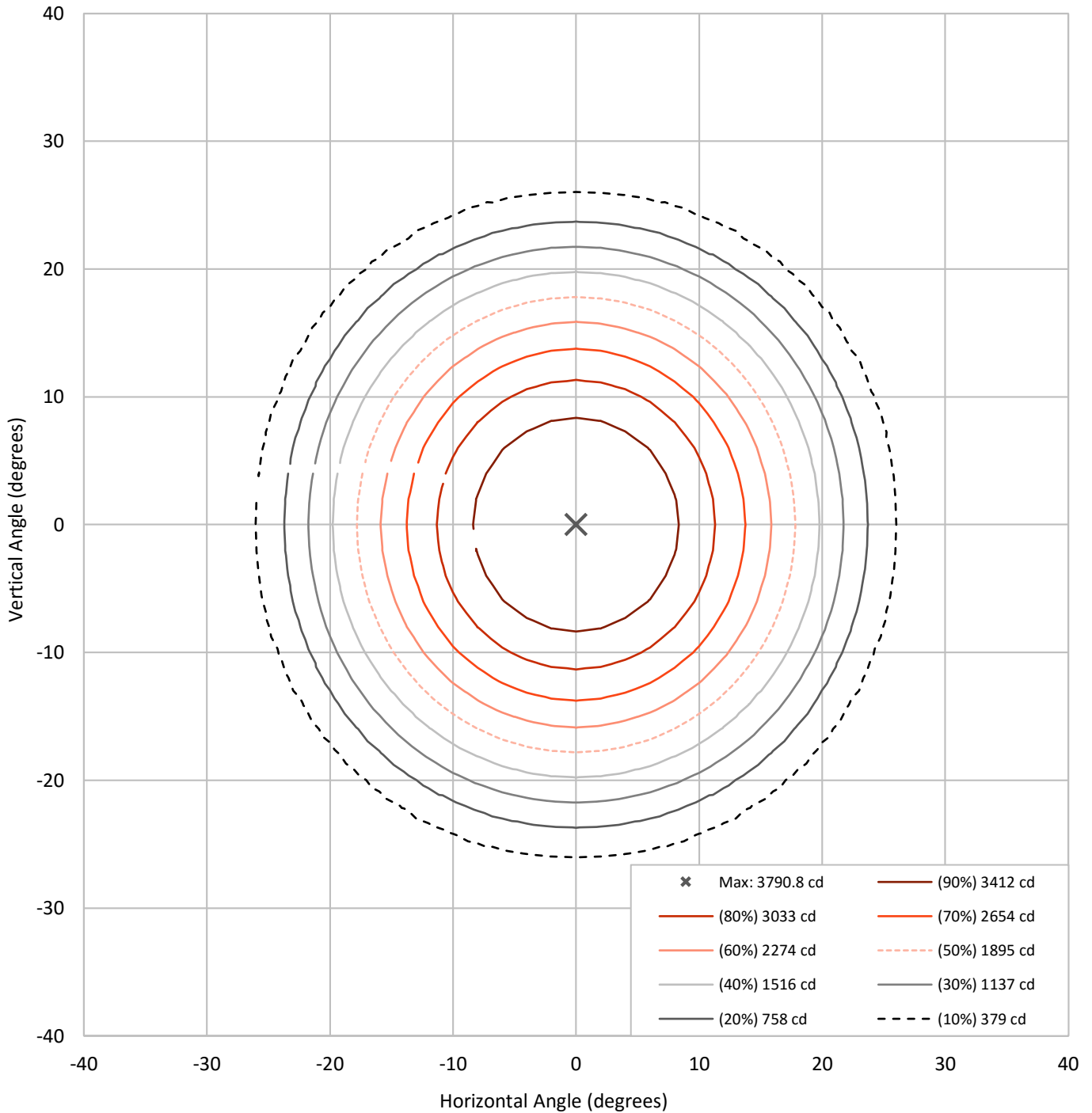
Test Method: LM-79-08  
Report Number: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29474)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS,  
FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	1299.2 lumens	Max Intensity:	3790.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	64.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.25' x H: 0')		
Beam Angle (50%):	35.6°H x 35.6°V	Field Angle (10%):	52.1°H x 52.1°V
Beam Lumens:	866.4 lumens	Field Lumens:	1219.5 lumens
Beam Efficiency:	66.7%	Field Efficiency:	93.9%
Input Watts (W):	20.1		
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		

REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

### Iso-Candela Plot





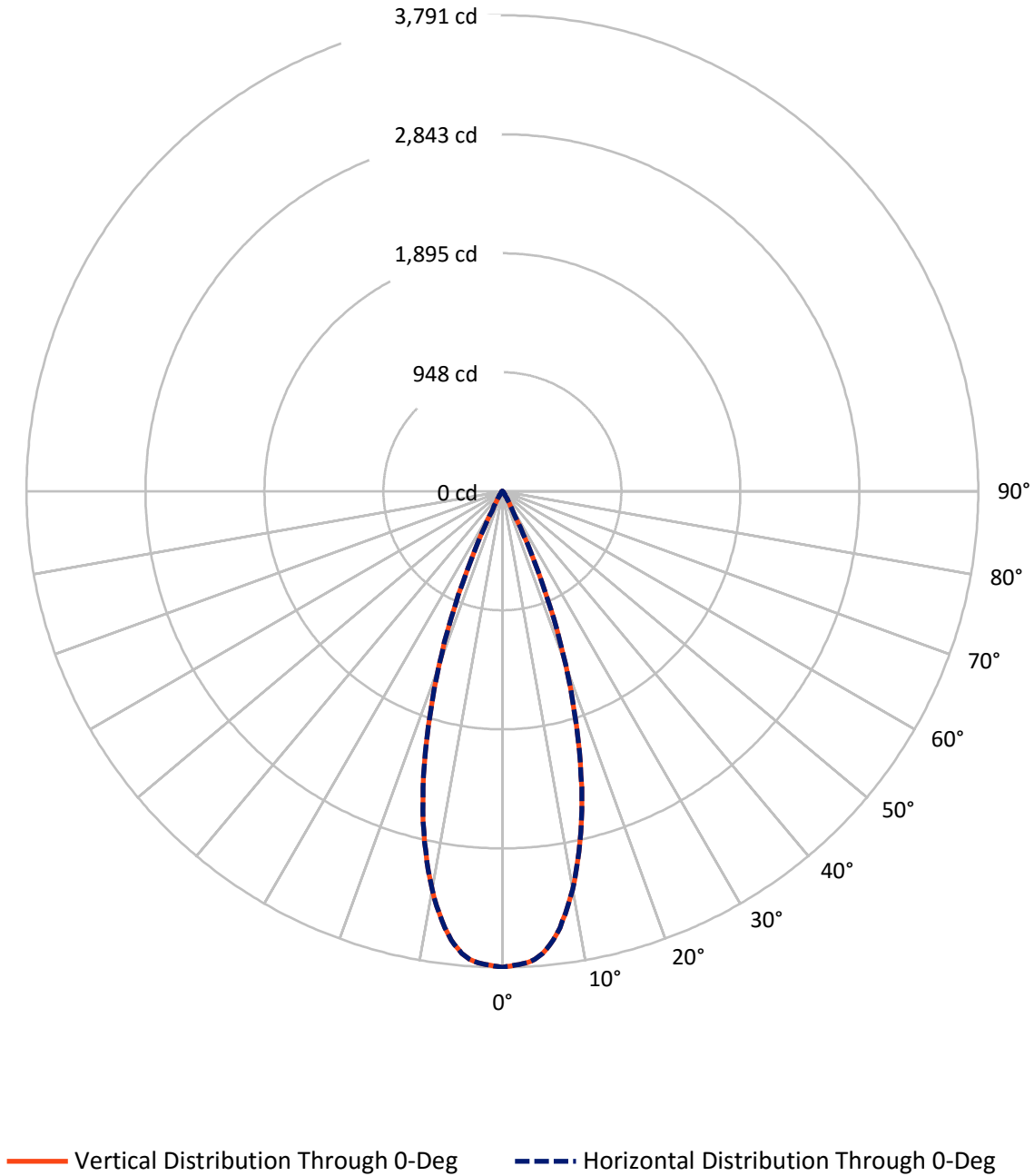
REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

### Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	
40		0.0	0.0	0.1	0.2	0.3	0.8	1.3	1.3	0.8	0.3	0.2	0.1	0.0		0.0
30	0.0	0.0	0.1	0.1	0.3	1.3	6.3	16.4	16.4	6.3	1.3	0.3	0.1	0.1	0.0	
20		0.0	0.1	0.2	0.7	5.9	36.4	67.2	67.2	36.4	5.9	0.7	0.2	0.1		0.0
10	0.0	0.0	0.1	0.2	1.1	15.1	65.3	103.8	103.8	65.3	15.1	1.1	0.2	0.1	0.0	
0		0.0	0.1	0.2	1.1	15.1	65.3	103.8	103.8	65.3	15.1	1.1	0.2	0.1		0.0
-10	0.0	0.0	0.1	0.2	1.1	15.1	65.3	103.8	103.8	65.3	15.1	1.1	0.2	0.1	0.0	
-20		0.0	0.1	0.2	0.7	5.9	36.4	67.2	67.2	36.4	5.9	0.7	0.2	0.1		0.0
-30	0.0	0.0	0.1	0.1	0.3	1.3	6.3	16.4	16.4	6.3	1.3	0.3	0.1	0.1	0.0	
-40		0.0	0.0	0.1	0.2	0.3	0.8	1.3	1.3	0.8	0.3	0.2	0.1	0.0		0.0
-50	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	
-60		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0		0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-80		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		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	0.0	0.0	0.0	0.0	

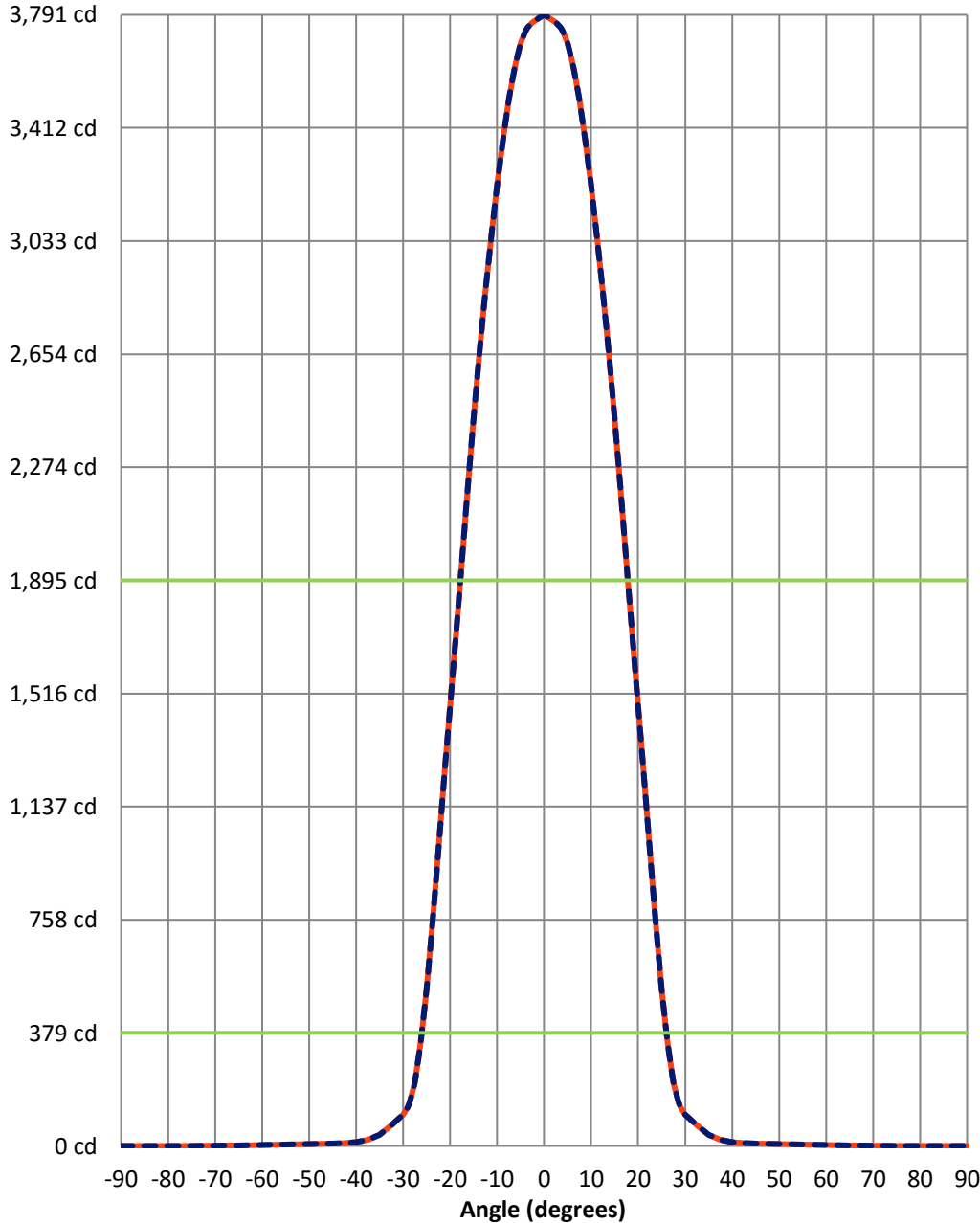
REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 35.6°  
 V Angle: 35.6°  
 Lumens: 866.4  
 Efficiency: 66.7%

**Field:**  
 H Angle: 52.1°  
 V Angle: 52.1°  
 Lumens: 1219.5  
 Efficiency: 93.9%

**Spill:**  
 Lumens: 79.8  
 Efficiency: 6.1%

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



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 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
63.75°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
61.25°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
58.75°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
56.25°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
53.75°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
51.25°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
48.75°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
46.25°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
43.75°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
41.25°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
38.75°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
36.25°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
31.25°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
28.75°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
26.25°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
23.75°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
21.25°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
18.75°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
16.25°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
13.75°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
11.25°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
8.75°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
6.25°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
3.75°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
1.25°	0	0	0	0	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0	0	0	0	0
-1.25°	0	0	0	0	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0	0	0	0	0
-3.75°	0	0	0	0	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0	0	0	0	0
-6.25°	0	0	0	0	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0	0	0	0	0
-8.75°	0	0	0	0	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0	0	0	0	0
-11.25°	0	0	0	0	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0	0	0	0	0
-13.75°	0	0	0	0	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0	0	0	0	0
-16.25°	0	0	0	0	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0	0	0	0	0
-18.75°	0	0	0	0	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0	0	0	0	0
-21.25°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-90°	-88.75°	-87.5°	-86.25°	-85°	-83.75°	-82.5°	-81.25°	-80°	-78.75°	-77.5°
-22.5°	0	0	0	0	0	0	0	0	0	0	0
-23.75°	0	0	0	0	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0	0	0	0	0
-26.25°	0	0	0	0	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0	0	0	0	0
-28.75°	0	0	0	0	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0	0	0	0	0
-31.25°	0	0	0	0	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0	0	0	0	0
-33.75°	0	0	0	0	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0	0	0	0	0
-36.25°	0	0	0	0	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0	0	0	0	0
-38.75°	0	0	0	0	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0	0	0	0	0
-41.25°	0	0	0	0	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-43.75°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-46.25°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-48.75°	0	0	0	0	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0	0	0	0	0
-51.25°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-53.75°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-56.25°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-58.75°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-61.25°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-63.75°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
63.75°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
61.25°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
58.75°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
56.25°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
53.75°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
51.25°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
48.75°	0	0	0	0	0	0	0	0	0	0	1
47.5°	0	0	0	0	0	0	0	0	0	1	1
46.25°	0	0	0	0	0	0	0	0	0	1	1
45°	0	0	0	0	0	0	0	0	0	1	1
43.75°	0	0	0	0	0	0	0	0	1	1	1
42.5°	0	0	0	0	0	0	0	0	1	1	1
41.25°	0	0	0	0	0	0	0	1	1	1	1
40°	0	0	0	0	0	0	0	1	1	1	1
38.75°	0	0	0	0	0	0	0	1	1	1	1
37.5°	0	0	0	0	0	0	1	1	1	1	1
36.25°	0	0	0	0	0	0	1	1	1	1	1
35°	0	0	0	0	0	0	1	1	1	1	1



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
33.75°	0	0	0	0	0	0	1	1	1	1	1
32.5°	0	0	0	0	0	1	1	1	1	1	1
31.25°	0	0	0	0	0	1	1	1	1	1	2
30°	0	0	0	0	0	1	1	1	1	1	2
28.75°	0	0	0	0	0	1	1	1	1	1	2
27.5°	0	0	0	0	1	1	1	1	1	1	2
26.25°	0	0	0	0	1	1	1	1	1	2	2
25°	0	0	0	0	1	1	1	1	1	2	2
23.75°	0	0	0	0	1	1	1	1	1	2	2
22.5°	0	0	0	0	1	1	1	1	1	2	2
21.25°	0	0	0	0	1	1	1	1	1	2	2
20°	0	0	0	0	1	1	1	1	2	2	2
18.75°	0	0	0	0	1	1	1	1	2	2	2
17.5°	0	0	0	1	1	1	1	1	2	2	2
16.25°	0	0	0	1	1	1	1	1	2	2	2
15°	0	0	0	1	1	1	1	1	2	2	2
13.75°	0	0	0	1	1	1	1	1	2	2	2
12.5°	0	0	0	1	1	1	1	1	2	2	2
11.25°	0	0	0	1	1	1	1	1	2	2	2
10°	0	0	0	1	1	1	1	1	2	2	2
8.75°	0	0	0	1	1	1	1	2	2	2	2
7.5°	0	0	0	1	1	1	1	2	2	2	2
6.25°	0	0	0	1	1	1	1	2	2	2	2
5°	0	0	0	1	1	1	1	2	2	2	2
3.75°	0	0	0	1	1	1	1	2	2	2	2
2.5°	0	0	0	1	1	1	1	2	2	2	2
1.25°	0	0	0	1	1	1	1	2	2	2	2
0°	0	0	0	1	1	1	1	2	2	2	2
-1.25°	0	0	0	1	1	1	1	2	2	2	2
-2.5°	0	0	0	1	1	1	1	2	2	2	2
-3.75°	0	0	0	1	1	1	1	2	2	2	2
-5°	0	0	0	1	1	1	1	2	2	2	2
-6.25°	0	0	0	1	1	1	1	2	2	2	2
-7.5°	0	0	0	1	1	1	1	2	2	2	2
-8.75°	0	0	0	1	1	1	1	2	2	2	2
-10°	0	0	0	1	1	1	1	1	2	2	2
-11.25°	0	0	0	1	1	1	1	1	2	2	2
-12.5°	0	0	0	1	1	1	1	1	2	2	2
-13.75°	0	0	0	1	1	1	1	1	2	2	2
-15°	0	0	0	1	1	1	1	1	2	2	2
-16.25°	0	0	0	1	1	1	1	1	2	2	2
-17.5°	0	0	0	1	1	1	1	1	2	2	2
-18.75°	0	0	0	0	1	1	1	1	2	2	2
-20°	0	0	0	0	1	1	1	1	2	2	2
-21.25°	0	0	0	0	1	1	1	1	1	2	2



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-76.25°	-75°	-73.75°	-72.5°	-71.25°	-70°	-68.75°	-67.5°	-66.25°	-65°	-63.75°
-22.5°	0	0	0	0	1	1	1	1	1	2	2
-23.75°	0	0	0	0	1	1	1	1	1	2	2
-25°	0	0	0	0	1	1	1	1	1	2	2
-26.25°	0	0	0	0	1	1	1	1	1	2	2
-27.5°	0	0	0	0	1	1	1	1	1	1	2
-28.75°	0	0	0	0	0	1	1	1	1	1	2
-30°	0	0	0	0	0	1	1	1	1	1	2
-31.25°	0	0	0	0	0	1	1	1	1	1	2
-32.5°	0	0	0	0	0	1	1	1	1	1	1
-33.75°	0	0	0	0	0	0	1	1	1	1	1
-35°	0	0	0	0	0	0	1	1	1	1	1
-36.25°	0	0	0	0	0	0	1	1	1	1	1
-37.5°	0	0	0	0	0	0	1	1	1	1	1
-38.75°	0	0	0	0	0	0	0	1	1	1	1
-40°	0	0	0	0	0	0	0	1	1	1	1
-41.25°	0	0	0	0	0	0	0	1	1	1	1
-42.5°	0	0	0	0	0	0	0	0	1	1	1
-43.75°	0	0	0	0	0	0	0	0	1	1	1
-45°	0	0	0	0	0	0	0	0	0	1	1
-46.25°	0	0	0	0	0	0	0	0	0	1	1
-47.5°	0	0	0	0	0	0	0	0	0	1	1
-48.75°	0	0	0	0	0	0	0	0	0	0	1
-50°	0	0	0	0	0	0	0	0	0	0	0
-51.25°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-53.75°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-56.25°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-58.75°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-61.25°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-63.75°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
63.75°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	1	1
61.25°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
58.75°	0	0	0	0	0	1	1	1	1	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	1
56.25°	0	0	0	1	1	1	1	1	1	1	1
55°	0	0	1	1	1	1	1	1	1	1	1
53.75°	0	0	1	1	1	1	1	1	1	1	2
52.5°	0	1	1	1	1	1	1	1	1	2	2
51.25°	1	1	1	1	1	1	1	1	2	2	2
50°	1	1	1	1	1	1	1	2	2	2	2
48.75°	1	1	1	1	1	1	2	2	2	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
46.25°	1	1	1	1	1	2	2	2	2	2	2
45°	1	1	1	1	2	2	2	2	2	2	2
43.75°	1	1	1	1	2	2	2	2	2	2	2
42.5°	1	1	1	2	2	2	2	2	2	2	3
41.25°	1	1	1	2	2	2	2	2	2	3	3
40°	1	1	2	2	2	2	2	2	2	3	3
38.75°	1	1	2	2	2	2	2	2	3	3	3
37.5°	1	2	2	2	2	2	2	3	3	3	3
36.25°	1	2	2	2	2	2	2	3	3	3	4
35°	2	2	2	2	2	2	3	3	3	3	4



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	2	2	2	2	2	2	3	3	3	4	4
32.5°	2	2	2	2	2	3	3	3	3	4	4
31.25°	2	2	2	2	2	3	3	3	4	4	4
30°	2	2	2	2	2	3	3	3	4	4	4
28.75°	2	2	2	2	3	3	3	4	4	4	5
27.5°	2	2	2	2	3	3	3	4	4	4	5
26.25°	2	2	2	2	3	3	4	4	4	5	5
25°	2	2	2	3	3	3	4	4	4	5	5
23.75°	2	2	2	3	3	3	4	4	4	5	5
22.5°	2	2	2	3	3	3	4	4	5	5	5
21.25°	2	2	2	3	3	4	4	4	5	5	5
20°	2	2	3	3	3	4	4	4	5	5	5
18.75°	2	2	3	3	3	4	4	4	5	5	6
17.5°	2	2	3	3	3	4	4	5	5	5	6
16.25°	2	2	3	3	4	4	4	5	5	5	6
15°	2	2	3	3	4	4	4	5	5	6	6
13.75°	2	3	3	3	4	4	4	5	5	6	6
12.5°	2	3	3	3	4	4	4	5	5	6	6
11.25°	2	3	3	3	4	4	5	5	5	6	6
10°	2	3	3	3	4	4	5	5	5	6	6
8.75°	2	3	3	3	4	4	5	5	5	6	6
7.5°	2	3	3	4	4	4	5	5	6	6	6
6.25°	2	3	3	4	4	4	5	5	6	6	6
5°	2	3	3	4	4	4	5	5	6	6	6
3.75°	2	3	3	4	4	4	5	5	6	6	6
2.5°	2	3	3	4	4	4	5	5	6	6	6
1.25°	2	3	3	4	4	4	5	5	6	6	6
0°	2	3	3	4	4	4	5	5	6	6	6
-1.25°	2	3	3	4	4	4	5	5	6	6	6
-2.5°	2	3	3	4	4	4	5	5	6	6	6
-3.75°	2	3	3	4	4	4	5	5	6	6	6
-5°	2	3	3	4	4	4	5	5	6	6	6
-6.25°	2	3	3	4	4	4	5	5	6	6	6
-7.5°	2	3	3	4	4	4	5	5	5	6	6
-8.75°	2	3	3	3	4	4	5	5	5	6	6
-10°	2	3	3	3	4	4	5	5	5	6	6
-11.25°	2	3	3	3	4	4	5	5	5	6	6
-12.5°	2	3	3	3	4	4	4	5	5	6	6
-13.75°	2	3	3	3	4	4	4	5	5	6	6
-15°	2	2	3	3	4	4	4	5	5	6	6
-16.25°	2	2	3	3	4	4	4	5	5	5	6
-17.5°	2	2	3	3	3	4	4	5	5	5	6
-18.75°	2	2	3	3	3	4	4	4	5	5	6
-20°	2	2	3	3	3	4	4	4	5	5	5
-21.25°	2	2	2	3	3	4	4	4	5	5	5





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	2	2	2	3	3	3	4	4	5	5	5
-23.75°	2	2	2	3	3	3	4	4	4	5	5
-25°	2	2	2	3	3	3	4	4	4	5	5
-26.25°	2	2	2	2	3	3	4	4	4	5	5
-27.5°	2	2	2	2	3	3	3	4	4	4	5
-28.75°	2	2	2	2	3	3	3	4	4	4	5
-30°	2	2	2	2	2	3	3	3	4	4	4
-31.25°	2	2	2	2	2	3	3	3	4	4	4
-32.5°	2	2	2	2	2	3	3	3	3	4	4
-33.75°	2	2	2	2	2	2	3	3	3	4	4
-35°	2	2	2	2	2	2	3	3	3	3	4
-36.25°	1	2	2	2	2	2	2	3	3	3	4
-37.5°	1	2	2	2	2	2	2	3	3	3	3
-38.75°	1	1	2	2	2	2	2	2	3	3	3
-40°	1	1	2	2	2	2	2	2	2	3	3
-41.25°	1	1	1	2	2	2	2	2	2	3	3
-42.5°	1	1	1	2	2	2	2	2	2	2	3
-43.75°	1	1	1	1	2	2	2	2	2	2	2
-45°	1	1	1	1	2	2	2	2	2	2	2
-46.25°	1	1	1	1	1	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-48.75°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	2	2	2	2
-51.25°	1	1	1	1	1	1	1	1	2	2	2
-52.5°	0	1	1	1	1	1	1	1	1	2	2
-53.75°	0	0	1	1	1	1	1	1	1	1	2
-55°	0	0	1	1	1	1	1	1	1	1	1
-56.25°	0	0	0	1	1	1	1	1	1	1	1
-57.5°	0	0	0	0	1	1	1	1	1	1	1
-58.75°	0	0	0	0	0	1	1	1	1	1	1
-60°	0	0	0	0	0	0	1	1	1	1	1
-61.25°	0	0	0	0	0	0	0	0	1	1	1
-62.5°	0	0	0	0	0	0	0	0	0	1	1
-63.75°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	1	1
67.5°	0	0	0	0	0	0	1	1	1	1	1
66.25°	0	0	0	0	1	1	1	1	1	1	1
65°	0	1	1	1	1	1	1	1	1	1	1
63.75°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
61.25°	1	1	1	1	1	1	1	1	1	2	2
60°	1	1	1	1	1	1	1	2	2	2	2
58.75°	1	1	1	1	1	2	2	2	2	2	2
57.5°	1	1	1	2	2	2	2	2	2	2	2
56.25°	1	1	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
53.75°	2	2	2	2	2	2	2	2	2	3	3
52.5°	2	2	2	2	2	2	2	2	3	3	3
51.25°	2	2	2	2	2	2	3	3	3	3	3
50°	2	2	2	2	2	3	3	3	3	3	4
48.75°	2	2	2	2	3	3	3	3	4	4	4
47.5°	2	2	3	3	3	3	3	4	4	4	4
46.25°	2	3	3	3	3	3	4	4	4	4	4
45°	2	3	3	3	3	4	4	4	4	5	5
43.75°	3	3	3	3	4	4	4	4	5	5	5
42.5°	3	3	3	4	4	4	4	5	5	5	5
41.25°	3	3	4	4	4	4	5	5	5	5	6
40°	3	4	4	4	4	5	5	5	5	6	6
38.75°	4	4	4	4	5	5	5	5	6	6	6
37.5°	4	4	4	5	5	5	5	6	6	6	6
36.25°	4	4	4	5	5	5	6	6	6	6	7
35°	4	4	5	5	5	5	6	6	6	7	7



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	4	5	5	5	5	6	6	6	7	7	7
32.5°	4	5	5	5	6	6	6	6	7	7	7
31.25°	5	5	5	6	6	6	6	7	7	7	8
30°	5	5	5	6	6	6	7	7	7	7	8
28.75°	5	5	6	6	6	6	7	7	7	8	8
27.5°	5	5	6	6	6	7	7	7	8	8	8
26.25°	5	6	6	6	7	7	7	7	8	8	9
25°	5	6	6	6	7	7	7	8	8	9	9
23.75°	5	6	6	7	7	7	8	8	8	9	10
22.5°	6	6	6	7	7	7	8	8	9	9	10
21.25°	6	6	6	7	7	7	8	8	9	10	11
20°	6	6	7	7	7	8	8	9	9	10	12
18.75°	6	6	7	7	7	8	8	9	10	11	13
17.5°	6	6	7	7	8	8	9	9	10	12	14
16.25°	6	7	7	7	8	8	9	10	11	12	15
15°	6	7	7	7	8	8	9	10	11	13	16
13.75°	6	7	7	7	8	8	9	10	12	14	18
12.5°	6	7	7	8	8	9	9	11	12	15	19
11.25°	6	7	7	8	8	9	10	11	13	16	20
10°	7	7	7	8	8	9	10	11	13	17	21
8.75°	7	7	7	8	8	9	10	12	14	18	23
7.5°	7	7	7	8	8	9	10	12	15	19	25
6.25°	7	7	7	8	9	9	11	12	15	19	26
5°	7	7	8	8	9	9	11	12	16	20	27
3.75°	7	7	8	8	9	10	11	13	16	20	28
2.5°	7	7	8	8	9	10	11	13	17	20	29
1.25°	7	7	8	8	9	10	11	13	17	21	29
0°	7	7	8	8	9	10	11	13	17	21	29
-1.25°	7	7	8	8	9	10	11	13	17	21	29
-2.5°	7	7	8	8	9	10	11	13	17	20	29
-3.75°	7	7	8	8	9	10	11	13	16	20	28
-5°	7	7	8	8	9	9	11	12	16	20	27
-6.25°	7	7	7	8	9	9	11	12	15	19	26
-7.5°	7	7	7	8	8	9	10	12	15	19	25
-8.75°	7	7	7	8	8	9	10	12	14	18	23
-10°	7	7	7	8	8	9	10	11	13	17	21
-11.25°	6	7	7	8	8	9	10	11	13	16	20
-12.5°	6	7	7	8	8	9	9	11	12	15	19
-13.75°	6	7	7	7	8	8	9	10	12	14	18
-15°	6	7	7	7	8	8	9	10	11	13	16
-16.25°	6	7	7	7	8	8	9	10	11	12	15
-17.5°	6	6	7	7	8	8	9	9	10	12	14
-18.75°	6	6	7	7	7	8	8	9	10	11	13
-20°	6	6	7	7	7	8	8	9	9	10	12
-21.25°	6	6	6	7	7	7	8	8	9	10	11



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	6	6	6	7	7	7	8	8	9	9	10
-23.75°	5	6	6	7	7	7	8	8	8	9	10
-25°	5	6	6	6	7	7	7	8	8	9	9
-26.25°	5	6	6	6	7	7	7	7	8	8	9
-27.5°	5	5	6	6	6	7	7	7	8	8	8
-28.75°	5	5	6	6	6	6	7	7	7	8	8
-30°	5	5	5	6	6	6	7	7	7	7	8
-31.25°	5	5	5	6	6	6	6	7	7	7	8
-32.5°	4	5	5	5	6	6	6	6	7	7	7
-33.75°	4	5	5	5	5	6	6	6	7	7	7
-35°	4	4	5	5	5	5	6	6	6	7	7
-36.25°	4	4	4	5	5	5	6	6	6	6	7
-37.5°	4	4	4	5	5	5	5	6	6	6	6
-38.75°	4	4	4	4	5	5	5	5	6	6	6
-40°	3	4	4	4	4	5	5	5	5	6	6
-41.25°	3	3	4	4	4	4	5	5	5	5	6
-42.5°	3	3	3	4	4	4	4	5	5	5	5
-43.75°	3	3	3	3	4	4	4	4	5	5	5
-45°	2	3	3	3	3	4	4	4	4	5	5
-46.25°	2	3	3	3	3	3	4	4	4	4	4
-47.5°	2	2	3	3	3	3	3	4	4	4	4
-48.75°	2	2	2	2	3	3	3	3	4	4	4
-50°	2	2	2	2	2	3	3	3	3	3	4
-51.25°	2	2	2	2	2	2	3	3	3	3	3
-52.5°	2	2	2	2	2	2	2	2	3	3	3
-53.75°	2	2	2	2	2	2	2	2	2	3	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-56.25°	1	1	2	2	2	2	2	2	2	2	2
-57.5°	1	1	1	2	2	2	2	2	2	2	2
-58.75°	1	1	1	1	1	2	2	2	2	2	2
-60°	1	1	1	1	1	1	1	2	2	2	2
-61.25°	1	1	1	1	1	1	1	1	1	2	2
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-63.75°	1	1	1	1	1	1	1	1	1	1	1
-65°	0	1	1	1	1	1	1	1	1	1	1
-66.25°	0	0	0	0	1	1	1	1	1	1	1
-67.5°	0	0	0	0	0	0	1	1	1	1	1
-68.75°	0	0	0	0	0	0	0	0	0	1	1
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	1	1	1	1	1	1	1	1	1
68.75°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
66.25°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	2	2	2	2
63.75°	1	1	1	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
61.25°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
58.75°	2	2	2	2	2	2	2	2	3	3	3
57.5°	2	2	2	2	2	3	3	3	3	3	3
56.25°	2	2	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	4	4	4	4
53.75°	3	3	3	3	3	4	4	4	4	4	4
52.5°	3	3	3	4	4	4	4	4	4	4	5
51.25°	3	4	4	4	4	4	4	5	5	5	5
50°	4	4	4	4	4	5	5	5	5	5	5
48.75°	4	4	4	5	5	5	5	5	5	5	6
47.5°	4	5	5	5	5	5	5	6	6	6	6
46.25°	5	5	5	5	5	6	6	6	6	6	6
45°	5	5	5	6	6	6	6	6	6	7	7
43.75°	5	5	6	6	6	6	6	7	7	7	7
42.5°	5	6	6	6	6	6	7	7	7	7	7
41.25°	6	6	6	6	7	7	7	7	7	8	8
40°	6	6	6	7	7	7	7	7	8	8	8
38.75°	6	7	7	7	7	7	8	8	8	8	9
37.5°	7	7	7	7	7	8	8	8	9	9	9
36.25°	7	7	7	8	8	8	8	9	9	10	10
35°	7	7	8	8	8	9	9	9	10	11	12



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	7	8	8	8	9	9	10	11	11	12	13
32.5°	8	8	8	9	9	10	11	12	13	14	17
31.25°	8	8	9	9	10	11	12	13	15	18	20
30°	8	9	9	10	11	12	13	16	18	21	25
28.75°	9	9	10	11	12	14	16	19	21	27	31
27.5°	9	10	11	12	13	16	19	22	27	33	38
26.25°	9	11	12	13	16	19	22	28	33	40	50
25°	10	11	13	15	18	21	27	33	40	51	61
23.75°	11	12	14	18	21	27	33	40	51	62	73
22.5°	12	13	17	20	25	31	38	50	61	73	85
21.25°	13	15	19	23	30	36	47	59	71	84	97
20°	14	17	20	27	34	44	56	69	82	96	110
18.75°	16	19	24	31	39	52	65	78	93	107	127
17.5°	17	21	28	35	46	60	73	88	103	122	160
16.25°	19	24	31	40	53	67	82	97	115	148	213
15°	20	27	34	46	60	75	90	106	130	183	278
13.75°	22	30	38	52	66	82	98	118	156	236	356
12.5°	25	33	43	58	73	89	105	131	190	297	440
11.25°	27	35	48	63	79	95	115	152	234	361	523
10°	29	37	52	67	84	101	123	173	280	429	610
8.75°	31	41	56	72	89	106	137	207	330	493	689
7.5°	33	44	60	76	93	113	151	237	374	554	765
6.25°	34	47	63	79	97	119	164	265	419	611	831
5°	35	49	65	82	100	123	177	295	458	658	886
3.75°	36	51	67	84	102	127	193	318	488	694	931
2.5°	37	52	68	86	104	133	204	334	509	723	964
1.25°	37	53	69	87	105	136	211	344	522	741	984
0°	38	53	69	87	105	137	214	347	527	747	990
-1.25°	37	53	69	87	105	136	211	344	522	741	984
-2.5°	37	52	68	86	104	133	204	334	509	723	964
-3.75°	36	51	67	84	102	127	193	318	488	694	931
-5°	35	49	65	82	100	123	177	295	458	658	886
-6.25°	34	47	63	79	97	119	164	265	419	611	831
-7.5°	33	44	60	76	93	113	151	237	374	554	765
-8.75°	31	41	56	72	89	106	137	207	330	493	689
-10°	29	37	52	67	84	101	123	173	280	429	610
-11.25°	27	35	48	63	79	95	115	152	234	361	523
-12.5°	25	33	43	58	73	89	105	131	190	297	440
-13.75°	22	30	38	52	66	82	98	118	156	236	356
-15°	20	27	34	46	60	75	90	106	130	183	278
-16.25°	19	24	31	40	53	67	82	97	115	148	213
-17.5°	17	21	28	35	46	60	73	88	103	122	160
-18.75°	16	19	24	31	39	52	65	78	93	107	127
-20°	14	17	20	27	34	44	56	69	82	96	110
-21.25°	13	15	19	23	30	36	47	59	71	84	97





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	12	13	17	20	25	31	38	50	61	73	85
-23.75°	11	12	14	18	21	27	33	40	51	62	73
-25°	10	11	13	15	18	21	27	33	40	51	61
-26.25°	9	11	12	13	16	19	22	28	33	40	50
-27.5°	9	10	11	12	13	16	19	22	27	33	38
-28.75°	9	9	10	11	12	14	16	19	21	27	31
-30°	8	9	9	10	11	12	13	16	18	21	25
-31.25°	8	8	9	9	10	11	12	13	15	18	20
-32.5°	8	8	8	9	9	10	11	12	13	14	17
-33.75°	7	8	8	8	9	9	10	11	11	12	13
-35°	7	7	8	8	8	9	9	9	10	11	12
-36.25°	7	7	7	8	8	8	8	9	9	10	10
-37.5°	7	7	7	7	7	8	8	8	9	9	9
-38.75°	6	7	7	7	7	7	8	8	8	8	9
-40°	6	6	6	7	7	7	7	7	8	8	8
-41.25°	6	6	6	6	7	7	7	7	7	8	8
-42.5°	5	6	6	6	6	6	7	7	7	7	7
-43.75°	5	5	6	6	6	6	6	7	7	7	7
-45°	5	5	5	6	6	6	6	6	6	7	7
-46.25°	5	5	5	5	5	6	6	6	6	6	6
-47.5°	4	5	5	5	5	5	5	6	6	6	6
-48.75°	4	4	4	5	5	5	5	5	5	5	6
-50°	4	4	4	4	4	5	5	5	5	5	5
-51.25°	3	4	4	4	4	4	4	5	5	5	5
-52.5°	3	3	3	4	4	4	4	4	4	4	5
-53.75°	3	3	3	3	3	4	4	4	4	4	4
-55°	3	3	3	3	3	3	3	4	4	4	4
-56.25°	2	2	3	3	3	3	3	3	3	3	3
-57.5°	2	2	2	2	2	3	3	3	3	3	3
-58.75°	2	2	2	2	2	2	2	2	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-61.25°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-63.75°	1	1	1	2	2	2	2	2	2	2	2
-65°	1	1	1	1	1	1	1	2	2	2	2
-66.25°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-68.75°	1	1	1	1	1	1	1	1	1	1	1
-70°	0	0	1	1	1	1	1	1	1	1	1
-71.25°	0	0	0	0	0	0	1	1	1	1	1
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	1	1	1	1	1	1	1	1
71.25°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
68.75°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	2
66.25°	1	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
63.75°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
61.25°	2	2	2	2	2	2	3	3	3	3	3
60°	2	3	3	3	3	3	3	3	3	3	3
58.75°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	4	4	4	4	4	4	4
56.25°	4	4	4	4	4	4	4	4	4	4	4
55°	4	4	4	4	4	4	4	4	5	5	5
53.75°	4	4	4	5	5	5	5	5	5	5	5
52.5°	5	5	5	5	5	5	5	5	5	5	5
51.25°	5	5	5	5	5	6	6	6	6	6	6
50°	5	5	6	6	6	6	6	6	6	6	6
48.75°	6	6	6	6	6	6	6	6	6	7	7
47.5°	6	6	6	6	7	7	7	7	7	7	7
46.25°	6	7	7	7	7	7	7	7	7	7	7
45°	7	7	7	7	7	7	7	8	8	8	8
43.75°	7	7	7	8	8	8	8	8	8	8	8
42.5°	7	8	8	8	8	8	8	9	9	9	9
41.25°	8	8	8	9	9	9	9	9	10	10	10
40°	8	9	9	9	10	10	10	11	11	11	12
38.75°	9	9	10	10	11	11	12	12	13	13	14
37.5°	10	10	11	12	12	13	14	15	16	17	18
36.25°	11	12	13	14	15	16	18	19	20	21	23
35°	13	14	16	17	19	20	22	25	27	29	31



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	15	17	19	21	24	27	30	33	35	37	41
32.5°	19	20	24	28	31	34	38	43	48	52	56
31.25°	23	27	31	35	40	46	52	58	63	67	72
30°	30	34	39	46	53	60	66	73	79	84	89
28.75°	36	44	52	60	67	75	82	89	95	101	106
27.5°	47	56	65	73	82	90	98	105	115	123	137
26.25°	59	69	78	88	97	106	118	131	152	173	207
25°	71	82	93	103	115	130	156	190	234	280	330
23.75°	84	96	107	122	148	183	236	297	361	429	493
22.5°	97	110	127	160	213	278	356	440	523	610	689
21.25°	112	132	168	234	315	406	506	612	714	816	909
20°	132	171	244	337	444	559	680	804	923	1037	1139
18.75°	168	244	344	462	592	729	870	1009	1138	1256	1358
17.5°	234	337	462	604	755	911	1066	1211	1342	1460	1569
16.25°	315	444	592	755	925	1096	1255	1400	1536	1663	1784
15°	406	559	729	911	1096	1270	1429	1582	1730	1870	1993
13.75°	506	680	870	1066	1255	1429	1598	1764	1920	2064	2205
12.5°	612	804	1009	1211	1400	1582	1764	1937	2102	2264	2400
11.25°	714	923	1138	1342	1536	1730	1920	2102	2282	2438	2581
10°	816	1037	1256	1460	1663	1870	2064	2264	2438	2601	2743
8.75°	909	1139	1358	1569	1784	1993	2205	2400	2581	2743	2885
7.5°	995	1228	1447	1666	1890	2107	2324	2521	2704	2865	3010
6.25°	1069	1304	1526	1754	1980	2211	2425	2628	2809	2970	3119
5°	1130	1364	1592	1827	2056	2294	2509	2712	2892	3058	3210
3.75°	1177	1412	1644	1885	2121	2357	2576	2779	2959	3127	3280
2.5°	1211	1446	1683	1925	2167	2403	2625	2825	3007	3178	3332
1.25°	1232	1467	1706	1949	2196	2430	2652	2853	3037	3209	3362
0°	1239	1474	1714	1958	2205	2440	2662	2862	3047	3219	3372
-1.25°	1232	1467	1706	1949	2196	2430	2652	2853	3037	3209	3362
-2.5°	1211	1446	1683	1925	2167	2403	2625	2825	3007	3178	3332
-3.75°	1177	1412	1644	1885	2121	2357	2576	2779	2959	3127	3280
-5°	1130	1364	1592	1827	2056	2294	2509	2712	2892	3058	3210
-6.25°	1069	1304	1526	1754	1980	2211	2425	2628	2809	2970	3119
-7.5°	995	1228	1447	1666	1890	2107	2324	2521	2704	2865	3010
-8.75°	909	1139	1358	1569	1784	1993	2205	2400	2581	2743	2885
-10°	816	1037	1256	1460	1663	1870	2064	2264	2438	2601	2743
-11.25°	714	923	1138	1342	1536	1730	1920	2102	2282	2438	2581
-12.5°	612	804	1009	1211	1400	1582	1764	1937	2102	2264	2400
-13.75°	506	680	870	1066	1255	1429	1598	1764	1920	2064	2205
-15°	406	559	729	911	1096	1270	1429	1582	1730	1870	1993
-16.25°	315	444	592	755	925	1096	1255	1400	1536	1663	1784
-17.5°	234	337	462	604	755	911	1066	1211	1342	1460	1569
-18.75°	168	244	344	462	592	729	870	1009	1138	1256	1358
-20°	132	171	244	337	444	559	680	804	923	1037	1139
-21.25°	112	132	168	234	315	406	506	612	714	816	909



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	97	110	127	160	213	278	356	440	523	610	689
-23.75°	84	96	107	122	148	183	236	297	361	429	493
-25°	71	82	93	103	115	130	156	190	234	280	330
-26.25°	59	69	78	88	97	106	118	131	152	173	207
-27.5°	47	56	65	73	82	90	98	105	115	123	137
-28.75°	36	44	52	60	67	75	82	89	95	101	106
-30°	30	34	39	46	53	60	66	73	79	84	89
-31.25°	23	27	31	35	40	46	52	58	63	67	72
-32.5°	19	20	24	28	31	34	38	43	48	52	56
-33.75°	15	17	19	21	24	27	30	33	35	37	41
-35°	13	14	16	17	19	20	22	25	27	29	31
-36.25°	11	12	13	14	15	16	18	19	20	21	23
-37.5°	10	10	11	12	12	13	14	15	16	17	18
-38.75°	9	9	10	10	11	11	12	12	13	13	14
-40°	8	9	9	9	10	10	10	11	11	11	12
-41.25°	8	8	8	9	9	9	9	9	10	10	10
-42.5°	7	8	8	8	8	8	8	9	9	9	9
-43.75°	7	7	7	8	8	8	8	8	8	8	8
-45°	7	7	7	7	7	7	7	8	8	8	8
-46.25°	6	7	7	7	7	7	7	7	7	7	7
-47.5°	6	6	6	6	7	7	7	7	7	7	7
-48.75°	6	6	6	6	6	6	6	6	6	7	7
-50°	5	5	6	6	6	6	6	6	6	6	6
-51.25°	5	5	5	5	5	6	6	6	6	6	6
-52.5°	5	5	5	5	5	5	5	5	5	5	5
-53.75°	4	4	4	5	5	5	5	5	5	5	5
-55°	4	4	4	4	4	4	4	4	5	5	5
-56.25°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	3	3	3	3	4	4	4	4	4	4	4
-58.75°	3	3	3	3	3	3	3	3	3	3	3
-60°	2	3	3	3	3	3	3	3	3	3	3
-61.25°	2	2	2	2	2	2	3	3	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-63.75°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-66.25°	1	2	2	2	2	2	2	2	2	2	2
-67.5°	1	1	1	1	1	1	1	1	1	1	2
-68.75°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-71.25°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	1	1	1	1	1	1	1	1
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	1	1
71.25°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
68.75°	1	1	1	1	1	1	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
66.25°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
63.75°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
61.25°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
58.75°	4	4	4	4	4	4	4	4	4	4	4
57.5°	4	4	4	4	4	4	4	4	4	4	4
56.25°	4	4	4	4	4	4	4	4	4	4	4
55°	5	5	5	5	5	5	5	5	5	5	5
53.75°	5	5	5	5	5	5	5	5	5	5	5
52.5°	5	6	6	6	6	6	6	6	6	6	6
51.25°	6	6	6	6	6	6	6	6	6	6	6
50°	6	6	6	6	6	6	6	6	6	6	6
48.75°	7	7	7	7	7	7	7	7	7	7	7
47.5°	7	7	7	7	7	7	7	7	7	7	7
46.25°	7	7	8	8	8	8	8	8	8	8	8
45°	8	8	8	8	8	8	8	8	8	8	8
43.75°	8	9	9	9	9	9	9	9	9	9	9
42.5°	9	9	9	10	10	10	10	10	10	10	9
41.25°	10	11	11	11	11	11	11	11	11	11	11
40°	12	12	12	13	13	13	13	13	13	13	12
38.75°	15	15	16	16	17	17	17	17	17	16	16
37.5°	19	19	20	20	20	21	21	21	20	20	20
36.25°	25	26	27	28	29	29	29	29	29	28	27
35°	33	34	35	36	37	37	38	37	37	36	35



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
33.75°	44	47	49	51	52	53	53	53	52	51	49
32.5°	60	63	65	67	68	69	69	69	68	67	65
31.25°	76	79	82	84	86	87	87	87	86	84	82
30°	93	97	100	102	104	105	105	105	104	102	100
28.75°	113	119	123	127	133	136	137	136	133	127	123
27.5°	151	164	177	193	204	211	214	211	204	193	177
26.25°	237	265	295	318	334	344	347	344	334	318	295
25°	374	419	458	488	509	522	527	522	509	488	458
23.75°	554	611	658	694	723	741	747	741	723	694	658
22.5°	765	831	886	931	964	984	990	984	964	931	886
21.25°	995	1069	1130	1177	1211	1232	1239	1232	1211	1177	1130
20°	1228	1304	1364	1412	1446	1467	1474	1467	1446	1412	1364
18.75°	1447	1526	1592	1644	1683	1706	1714	1706	1683	1644	1592
17.5°	1666	1754	1827	1885	1925	1949	1958	1949	1925	1885	1827
16.25°	1890	1980	2056	2121	2167	2196	2205	2196	2167	2121	2056
15°	2107	2211	2294	2357	2403	2430	2440	2430	2403	2357	2294
13.75°	2324	2425	2509	2576	2625	2652	2662	2652	2625	2576	2509
12.5°	2521	2628	2712	2779	2825	2853	2862	2853	2825	2779	2712
11.25°	2704	2809	2892	2959	3007	3037	3047	3037	3007	2959	2892
10°	2865	2970	3058	3127	3178	3209	3219	3209	3178	3127	3058
8.75°	3010	3119	3210	3280	3332	3362	3372	3362	3332	3280	3210
7.5°	3139	3250	3343	3414	3467	3497	3507	3497	3467	3414	3343
6.25°	3250	3363	3457	3529	3578	3606	3616	3606	3578	3529	3457
5°	3343	3457	3550	3616	3660	3686	3695	3686	3660	3616	3550
3.75°	3414	3529	3616	3677	3717	3740	3744	3740	3717	3677	3616
2.5°	3467	3578	3660	3717	3749	3762	3765	3762	3749	3717	3660
1.25°	3497	3606	3686	3740	3762	3773	3778	3773	3762	3740	3686
0°	3507	3616	3695	3744	3765	3778	3791	3778	3765	3744	3695
-1.25°	3497	3606	3686	3740	3762	3773	3778	3773	3762	3740	3686
-2.5°	3467	3578	3660	3717	3749	3762	3765	3762	3749	3717	3660
-3.75°	3414	3529	3616	3677	3717	3740	3744	3740	3717	3677	3616
-5°	3343	3457	3550	3616	3660	3686	3695	3686	3660	3616	3550
-6.25°	3250	3363	3457	3529	3578	3606	3616	3606	3578	3529	3457
-7.5°	3139	3250	3343	3414	3467	3497	3507	3497	3467	3414	3343
-8.75°	3010	3119	3210	3280	3332	3362	3372	3362	3332	3280	3210
-10°	2865	2970	3058	3127	3178	3209	3219	3209	3178	3127	3058
-11.25°	2704	2809	2892	2959	3007	3037	3047	3037	3007	2959	2892
-12.5°	2521	2628	2712	2779	2825	2853	2862	2853	2825	2779	2712
-13.75°	2324	2425	2509	2576	2625	2652	2662	2652	2625	2576	2509
-15°	2107	2211	2294	2357	2403	2430	2440	2430	2403	2357	2294
-16.25°	1890	1980	2056	2121	2167	2196	2205	2196	2167	2121	2056
-17.5°	1666	1754	1827	1885	1925	1949	1958	1949	1925	1885	1827
-18.75°	1447	1526	1592	1644	1683	1706	1714	1706	1683	1644	1592
-20°	1228	1304	1364	1412	1446	1467	1474	1467	1446	1412	1364
-21.25°	995	1069	1130	1177	1211	1232	1239	1232	1211	1177	1130





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
-22.5°	765	831	886	931	964	984	990	984	964	931	886
-23.75°	554	611	658	694	723	741	747	741	723	694	658
-25°	374	419	458	488	509	522	527	522	509	488	458
-26.25°	237	265	295	318	334	344	347	344	334	318	295
-27.5°	151	164	177	193	204	211	214	211	204	193	177
-28.75°	113	119	123	127	133	136	137	136	133	127	123
-30°	93	97	100	102	104	105	105	105	104	102	100
-31.25°	76	79	82	84	86	87	87	87	86	84	82
-32.5°	60	63	65	67	68	69	69	69	68	67	65
-33.75°	44	47	49	51	52	53	53	53	52	51	49
-35°	33	34	35	36	37	37	38	37	37	36	35
-36.25°	25	26	27	28	29	29	29	29	29	28	27
-37.5°	19	19	20	20	20	21	21	21	20	20	20
-38.75°	15	15	16	16	17	17	17	17	17	16	16
-40°	12	12	12	13	13	13	13	13	13	13	12
-41.25°	10	11	11	11	11	11	11	11	11	11	11
-42.5°	9	9	9	10	10	10	10	10	10	10	9
-43.75°	8	9	9	9	9	9	9	9	9	9	9
-45°	8	8	8	8	8	8	8	8	8	8	8
-46.25°	7	7	8	8	8	8	8	8	8	8	8
-47.5°	7	7	7	7	7	7	7	7	7	7	7
-48.75°	7	7	7	7	7	7	7	7	7	7	7
-50°	6	6	6	6	6	6	6	6	6	6	6
-51.25°	6	6	6	6	6	6	6	6	6	6	6
-52.5°	5	6	6	6	6	6	6	6	6	6	6
-53.75°	5	5	5	5	5	5	5	5	5	5	5
-55°	5	5	5	5	5	5	5	5	5	5	5
-56.25°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	4	4	4	4	4	4	4	4	4	4	4
-58.75°	4	4	4	4	4	4	4	4	4	4	4
-60°	3	3	3	3	3	3	3	3	3	3	3
-61.25°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-63.75°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-66.25°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-68.75°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-71.25°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-6.25°	-5°	-3.75°	-2.5°	-1.25°	0°	1.25°	2.5°	3.75°	5°
-78.75°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	1	0
71.25°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
68.75°	1	1	1	1	1	1	1	1	1	1	1
67.5°	2	2	2	1	1	1	1	1	1	1	1
66.25°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
63.75°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
61.25°	3	3	3	3	3	3	3	2	2	2	2
60°	3	3	3	3	3	3	3	3	3	3	3
58.75°	4	4	3	3	3	3	3	3	3	3	3
57.5°	4	4	4	4	4	4	4	4	4	3	3
56.25°	4	4	4	4	4	4	4	4	4	4	4
55°	5	5	5	5	5	4	4	4	4	4	4
53.75°	5	5	5	5	5	5	5	5	5	5	4
52.5°	6	5	5	5	5	5	5	5	5	5	5
51.25°	6	6	6	6	6	6	6	6	5	5	5
50°	6	6	6	6	6	6	6	6	6	6	6
48.75°	7	7	7	7	6	6	6	6	6	6	6
47.5°	7	7	7	7	7	7	7	7	7	6	6
46.25°	7	7	7	7	7	7	7	7	7	7	7
45°	8	8	8	8	8	8	7	7	7	7	7
43.75°	9	8	8	8	8	8	8	8	8	8	7
42.5°	9	9	9	9	9	9	8	8	8	8	8
41.25°	11	10	10	10	10	9	9	9	9	9	8
40°	12	12	12	11	11	11	10	10	10	9	9
38.75°	15	15	14	13	13	12	12	11	11	10	10
37.5°	19	19	18	17	16	15	14	13	12	12	11
36.25°	26	25	23	21	20	19	18	16	15	14	13
35°	34	33	31	29	27	25	22	20	19	17	16



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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°	47	44	41	37	35	33	30	27	24	21	19
32.5°	63	60	56	52	48	43	38	34	31	28	24
31.25°	79	76	72	67	63	58	52	46	40	35	31
30°	97	93	89	84	79	73	66	60	53	46	39
28.75°	119	113	106	101	95	89	82	75	67	60	52
27.5°	164	151	137	123	115	105	98	90	82	73	65
26.25°	265	237	207	173	152	131	118	106	97	88	78
25°	419	374	330	280	234	190	156	130	115	103	93
23.75°	611	554	493	429	361	297	236	183	148	122	107
22.5°	831	765	689	610	523	440	356	278	213	160	127
21.25°	1069	995	909	816	714	612	506	406	315	234	168
20°	1304	1228	1139	1037	923	804	680	559	444	337	244
18.75°	1526	1447	1358	1256	1138	1009	870	729	592	462	344
17.5°	1754	1666	1569	1460	1342	1211	1066	911	755	604	462
16.25°	1980	1890	1784	1663	1536	1400	1255	1096	925	755	592
15°	2211	2107	1993	1870	1730	1582	1429	1270	1096	911	729
13.75°	2425	2324	2205	2064	1920	1764	1598	1429	1255	1066	870
12.5°	2628	2521	2400	2264	2102	1937	1764	1582	1400	1211	1009
11.25°	2809	2704	2581	2438	2282	2102	1920	1730	1536	1342	1138
10°	2970	2865	2743	2601	2438	2264	2064	1870	1663	1460	1256
8.75°	3119	3010	2885	2743	2581	2400	2205	1993	1784	1569	1358
7.5°	3250	3139	3010	2865	2704	2521	2324	2107	1890	1666	1447
6.25°	3363	3250	3119	2970	2809	2628	2425	2211	1980	1754	1526
5°	3457	3343	3210	3058	2892	2712	2509	2294	2056	1827	1592
3.75°	3529	3414	3280	3127	2959	2779	2576	2357	2121	1885	1644
2.5°	3578	3467	3332	3178	3007	2825	2625	2403	2167	1925	1683
1.25°	3606	3497	3362	3209	3037	2853	2652	2430	2196	1949	1706
0°	3616	3507	3372	3219	3047	2862	2662	2440	2205	1958	1714
-1.25°	3606	3497	3362	3209	3037	2853	2652	2430	2196	1949	1706
-2.5°	3578	3467	3332	3178	3007	2825	2625	2403	2167	1925	1683
-3.75°	3529	3414	3280	3127	2959	2779	2576	2357	2121	1885	1644
-5°	3457	3343	3210	3058	2892	2712	2509	2294	2056	1827	1592
-6.25°	3363	3250	3119	2970	2809	2628	2425	2211	1980	1754	1526
-7.5°	3250	3139	3010	2865	2704	2521	2324	2107	1890	1666	1447
-8.75°	3119	3010	2885	2743	2581	2400	2205	1993	1784	1569	1358
-10°	2970	2865	2743	2601	2438	2264	2064	1870	1663	1460	1256
-11.25°	2809	2704	2581	2438	2282	2102	1920	1730	1536	1342	1138
-12.5°	2628	2521	2400	2264	2102	1937	1764	1582	1400	1211	1009
-13.75°	2425	2324	2205	2064	1920	1764	1598	1429	1255	1066	870
-15°	2211	2107	1993	1870	1730	1582	1429	1270	1096	911	729
-16.25°	1980	1890	1784	1663	1536	1400	1255	1096	925	755	592
-17.5°	1754	1666	1569	1460	1342	1211	1066	911	755	604	462
-18.75°	1526	1447	1358	1256	1138	1009	870	729	592	462	344
-20°	1304	1228	1139	1037	923	804	680	559	444	337	244
-21.25°	1069	995	909	816	714	612	506	406	315	234	168



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	831	765	689	610	523	440	356	278	213	160	127
-23.75°	611	554	493	429	361	297	236	183	148	122	107
-25°	419	374	330	280	234	190	156	130	115	103	93
-26.25°	265	237	207	173	152	131	118	106	97	88	78
-27.5°	164	151	137	123	115	105	98	90	82	73	65
-28.75°	119	113	106	101	95	89	82	75	67	60	52
-30°	97	93	89	84	79	73	66	60	53	46	39
-31.25°	79	76	72	67	63	58	52	46	40	35	31
-32.5°	63	60	56	52	48	43	38	34	31	28	24
-33.75°	47	44	41	37	35	33	30	27	24	21	19
-35°	34	33	31	29	27	25	22	20	19	17	16
-36.25°	26	25	23	21	20	19	18	16	15	14	13
-37.5°	19	19	18	17	16	15	14	13	12	12	11
-38.75°	15	15	14	13	13	12	12	11	11	10	10
-40°	12	12	12	11	11	11	10	10	10	9	9
-41.25°	11	10	10	10	10	9	9	9	9	9	8
-42.5°	9	9	9	9	9	9	8	8	8	8	8
-43.75°	9	8	8	8	8	8	8	8	8	8	7
-45°	8	8	8	8	8	8	7	7	7	7	7
-46.25°	7	7	7	7	7	7	7	7	7	7	7
-47.5°	7	7	7	7	7	7	7	7	7	6	6
-48.75°	7	7	7	7	6	6	6	6	6	6	6
-50°	6	6	6	6	6	6	6	6	6	6	6
-51.25°	6	6	6	6	6	6	6	6	5	5	5
-52.5°	6	5	5	5	5	5	5	5	5	5	5
-53.75°	5	5	5	5	5	5	5	5	5	5	4
-55°	5	5	5	5	5	4	4	4	4	4	4
-56.25°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	4	4	4	4	4	4	4	4	4	3	3
-58.75°	4	4	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-61.25°	3	3	3	3	3	3	3	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-63.75°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-66.25°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	1	1	1	1	1	1	1	1
-68.75°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-71.25°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	1	1	1	1	1	1	1	0	0	0	0
70°	1	1	1	1	1	1	1	1	1	1	1
68.75°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
66.25°	2	1	1	1	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	1	1	1	1	1
63.75°	2	2	2	2	2	2	2	2	2	2	1
62.5°	2	2	2	2	2	2	2	2	2	2	2
61.25°	2	2	2	2	2	2	2	2	2	2	2
60°	3	2	2	2	2	2	2	2	2	2	2
58.75°	3	3	3	3	3	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	2	2	2
56.25°	4	4	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	3	3	3	3	3
53.75°	4	4	4	4	4	4	4	4	3	3	3
52.5°	5	5	5	4	4	4	4	4	4	4	3
51.25°	5	5	5	5	5	5	4	4	4	4	4
50°	5	5	5	5	5	5	5	5	4	4	4
48.75°	6	6	6	5	5	5	5	5	5	5	4
47.5°	6	6	6	6	6	6	5	5	5	5	5
46.25°	7	6	6	6	6	6	6	6	5	5	5
45°	7	7	7	7	6	6	6	6	6	6	5
43.75°	7	7	7	7	7	7	6	6	6	6	6
42.5°	8	7	7	7	7	7	7	6	6	6	6
41.25°	8	8	8	8	7	7	7	7	7	6	6
40°	9	8	8	8	8	7	7	7	7	7	6
38.75°	9	9	9	8	8	8	8	7	7	7	7
37.5°	10	10	9	9	9	8	8	8	7	7	7
36.25°	12	11	10	10	9	9	8	8	8	8	7
35°	14	13	12	11	10	9	9	9	8	8	8

REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
33.75°	17	15	13	12	11	11	10	9	9	8	8
32.5°	20	19	17	14	13	12	11	10	9	9	8
31.25°	27	23	20	18	15	13	12	11	10	9	9
30°	34	30	25	21	18	16	13	12	11	10	9
28.75°	44	36	31	27	21	19	16	14	12	11	10
27.5°	56	47	38	33	27	22	19	16	13	12	11
26.25°	69	59	50	40	33	28	22	19	16	13	12
25°	82	71	61	51	40	33	27	21	18	15	13
23.75°	96	84	73	62	51	40	33	27	21	18	14
22.5°	110	97	85	73	61	50	38	31	25	20	17
21.25°	132	112	97	84	71	59	47	36	30	23	19
20°	171	132	110	96	82	69	56	44	34	27	20
18.75°	244	168	127	107	93	78	65	52	39	31	24
17.5°	337	234	160	122	103	88	73	60	46	35	28
16.25°	444	315	213	148	115	97	82	67	53	40	31
15°	559	406	278	183	130	106	90	75	60	46	34
13.75°	680	506	356	236	156	118	98	82	66	52	38
12.5°	804	612	440	297	190	131	105	89	73	58	43
11.25°	923	714	523	361	234	152	115	95	79	63	48
10°	1037	816	610	429	280	173	123	101	84	67	52
8.75°	1139	909	689	493	330	207	137	106	89	72	56
7.5°	1228	995	765	554	374	237	151	113	93	76	60
6.25°	1304	1069	831	611	419	265	164	119	97	79	63
5°	1364	1130	886	658	458	295	177	123	100	82	65
3.75°	1412	1177	931	694	488	318	193	127	102	84	67
2.5°	1446	1211	964	723	509	334	204	133	104	86	68
1.25°	1467	1232	984	741	522	344	211	136	105	87	69
0°	1474	1239	990	747	527	347	214	137	105	87	69
-1.25°	1467	1232	984	741	522	344	211	136	105	87	69
-2.5°	1446	1211	964	723	509	334	204	133	104	86	68
-3.75°	1412	1177	931	694	488	318	193	127	102	84	67
-5°	1364	1130	886	658	458	295	177	123	100	82	65
-6.25°	1304	1069	831	611	419	265	164	119	97	79	63
-7.5°	1228	995	765	554	374	237	151	113	93	76	60
-8.75°	1139	909	689	493	330	207	137	106	89	72	56
-10°	1037	816	610	429	280	173	123	101	84	67	52
-11.25°	923	714	523	361	234	152	115	95	79	63	48
-12.5°	804	612	440	297	190	131	105	89	73	58	43
-13.75°	680	506	356	236	156	118	98	82	66	52	38
-15°	559	406	278	183	130	106	90	75	60	46	34
-16.25°	444	315	213	148	115	97	82	67	53	40	31
-17.5°	337	234	160	122	103	88	73	60	46	35	28
-18.75°	244	168	127	107	93	78	65	52	39	31	24
-20°	171	132	110	96	82	69	56	44	34	27	20
-21.25°	132	112	97	84	71	59	47	36	30	23	19





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
-22.5°	110	97	85	73	61	50	38	31	25	20	17
-23.75°	96	84	73	62	51	40	33	27	21	18	14
-25°	82	71	61	51	40	33	27	21	18	15	13
-26.25°	69	59	50	40	33	28	22	19	16	13	12
-27.5°	56	47	38	33	27	22	19	16	13	12	11
-28.75°	44	36	31	27	21	19	16	14	12	11	10
-30°	34	30	25	21	18	16	13	12	11	10	9
-31.25°	27	23	20	18	15	13	12	11	10	9	9
-32.5°	20	19	17	14	13	12	11	10	9	9	8
-33.75°	17	15	13	12	11	11	10	9	9	8	8
-35°	14	13	12	11	10	9	9	9	8	8	8
-36.25°	12	11	10	10	9	9	8	8	8	8	7
-37.5°	10	10	9	9	9	8	8	8	7	7	7
-38.75°	9	9	9	8	8	8	8	7	7	7	7
-40°	9	8	8	8	8	7	7	7	7	7	6
-41.25°	8	8	8	8	7	7	7	7	7	6	6
-42.5°	8	7	7	7	7	7	7	6	6	6	6
-43.75°	7	7	7	7	7	7	6	6	6	6	6
-45°	7	7	7	7	6	6	6	6	6	6	5
-46.25°	7	6	6	6	6	6	6	6	5	5	5
-47.5°	6	6	6	6	6	6	5	5	5	5	5
-48.75°	6	6	6	5	5	5	5	5	5	5	4
-50°	5	5	5	5	5	5	5	5	4	4	4
-51.25°	5	5	5	5	5	5	4	4	4	4	4
-52.5°	5	5	5	4	4	4	4	4	4	4	3
-53.75°	4	4	4	4	4	4	4	4	3	3	3
-55°	4	4	4	4	4	4	3	3	3	3	3
-56.25°	4	4	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	2	2	2
-58.75°	3	3	3	3	3	2	2	2	2	2	2
-60°	3	2	2	2	2	2	2	2	2	2	2
-61.25°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-63.75°	2	2	2	2	2	2	2	2	2	2	1
-65°	2	2	2	2	2	2	1	1	1	1	1
-66.25°	2	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-68.75°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-71.25°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	21.25°	22.5°	23.75°	25°	26.25°	27.5°	28.75°	30°	31.25°	32.5°
-78.75°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	1	1	1	1	0	0	0	0	0	0	0
67.5°	1	1	1	1	1	1	1	0	0	0	0
66.25°	1	1	1	1	1	1	1	1	1	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
63.75°	1	1	1	1	1	1	1	1	1	1	1
62.5°	2	2	1	1	1	1	1	1	1	1	1
61.25°	2	2	2	2	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	1	1	1	1	1
58.75°	2	2	2	2	2	2	2	2	1	1	1
57.5°	2	2	2	2	2	2	2	2	2	2	1
56.25°	2	2	2	2	2	2	2	2	2	2	2
55°	3	3	2	2	2	2	2	2	2	2	2
53.75°	3	3	3	3	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	2	2	2	2	2	2
51.25°	4	3	3	3	3	3	3	2	2	2	2
50°	4	4	4	3	3	3	3	3	2	2	2
48.75°	4	4	4	4	4	3	3	3	3	2	2
47.5°	5	4	4	4	4	4	3	3	3	3	3
46.25°	5	5	4	4	4	4	4	3	3	3	3
45°	5	5	5	5	4	4	4	4	3	3	3
43.75°	5	5	5	5	5	4	4	4	4	3	3
42.5°	6	5	5	5	5	5	4	4	4	4	3
41.25°	6	6	6	5	5	5	5	4	4	4	4
40°	6	6	6	6	5	5	5	5	4	4	4
38.75°	7	6	6	6	6	5	5	5	5	4	4
37.5°	7	7	6	6	6	6	5	5	5	5	4
36.25°	7	7	7	6	6	6	6	5	5	5	4
35°	7	7	7	7	6	6	6	5	5	5	5



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
33.75°	8	7	7	7	7	6	6	6	5	5	5
32.5°	8	8	7	7	7	6	6	6	6	5	5
31.25°	8	8	8	7	7	7	6	6	6	6	5
30°	9	8	8	7	7	7	7	6	6	6	5
28.75°	9	9	8	8	7	7	7	6	6	6	6
27.5°	10	9	8	8	8	7	7	7	6	6	6
26.25°	11	9	9	8	8	7	7	7	7	6	6
25°	11	10	9	9	8	8	7	7	7	6	6
23.75°	12	11	10	9	8	8	8	7	7	7	6
22.5°	13	12	10	9	9	8	8	7	7	7	6
21.25°	15	13	11	10	9	8	8	7	7	7	6
20°	17	14	12	10	9	9	8	8	7	7	7
18.75°	19	16	13	11	10	9	8	8	7	7	7
17.5°	21	17	14	12	10	9	9	8	8	7	7
16.25°	24	19	15	12	11	10	9	8	8	7	7
15°	27	20	16	13	11	10	9	8	8	7	7
13.75°	30	22	18	14	12	10	9	8	8	7	7
12.5°	33	25	19	15	12	11	9	9	8	8	7
11.25°	35	27	20	16	13	11	10	9	8	8	7
10°	37	29	21	17	13	11	10	9	8	8	7
8.75°	41	31	23	18	14	12	10	9	8	8	7
7.5°	44	33	25	19	15	12	10	9	8	8	7
6.25°	47	34	26	19	15	12	11	9	9	8	7
5°	49	35	27	20	16	12	11	9	9	8	8
3.75°	51	36	28	20	16	13	11	10	9	8	8
2.5°	52	37	29	20	17	13	11	10	9	8	8
1.25°	53	37	29	21	17	13	11	10	9	8	8
0°	53	38	29	21	17	13	11	10	9	8	8
-1.25°	53	37	29	21	17	13	11	10	9	8	8
-2.5°	52	37	29	20	17	13	11	10	9	8	8
-3.75°	51	36	28	20	16	13	11	10	9	8	8
-5°	49	35	27	20	16	12	11	9	9	8	8
-6.25°	47	34	26	19	15	12	11	9	9	8	7
-7.5°	44	33	25	19	15	12	10	9	8	8	7
-8.75°	41	31	23	18	14	12	10	9	8	8	7
-10°	37	29	21	17	13	11	10	9	8	8	7
-11.25°	35	27	20	16	13	11	10	9	8	8	7
-12.5°	33	25	19	15	12	11	9	9	8	8	7
-13.75°	30	22	18	14	12	10	9	8	8	7	7
-15°	27	20	16	13	11	10	9	8	8	7	7
-16.25°	24	19	15	12	11	10	9	8	8	7	7
-17.5°	21	17	14	12	10	9	9	8	8	7	7
-18.75°	19	16	13	11	10	9	8	8	7	7	7
-20°	17	14	12	10	9	9	8	8	7	7	7
-21.25°	15	13	11	10	9	8	8	7	7	7	6



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
-22.5°	13	12	10	9	9	8	8	7	7	7	6
-23.75°	12	11	10	9	8	8	8	7	7	7	6
-25°	11	10	9	9	8	8	7	7	7	6	6
-26.25°	11	9	9	8	8	7	7	7	7	6	6
-27.5°	10	9	8	8	8	7	7	7	6	6	6
-28.75°	9	9	8	8	7	7	7	6	6	6	6
-30°	9	8	8	7	7	7	7	6	6	6	5
-31.25°	8	8	8	7	7	7	6	6	6	6	5
-32.5°	8	8	7	7	7	6	6	6	6	5	5
-33.75°	8	7	7	7	7	6	6	6	5	5	5
-35°	7	7	7	7	6	6	6	5	5	5	5
-36.25°	7	7	7	6	6	6	6	5	5	5	4
-37.5°	7	7	6	6	6	6	5	5	5	5	4
-38.75°	7	6	6	6	6	5	5	5	5	4	4
-40°	6	6	6	6	5	5	5	5	4	4	4
-41.25°	6	6	6	5	5	5	5	4	4	4	4
-42.5°	6	5	5	5	5	5	4	4	4	4	3
-43.75°	5	5	5	5	5	4	4	4	4	3	3
-45°	5	5	5	5	4	4	4	4	3	3	3
-46.25°	5	5	4	4	4	4	4	3	3	3	3
-47.5°	5	4	4	4	4	4	3	3	3	3	3
-48.75°	4	4	4	4	4	3	3	3	3	2	2
-50°	4	4	4	3	3	3	3	3	2	2	2
-51.25°	4	3	3	3	3	3	3	2	2	2	2
-52.5°	3	3	3	3	3	2	2	2	2	2	2
-53.75°	3	3	3	3	2	2	2	2	2	2	2
-55°	3	3	2	2	2	2	2	2	2	2	2
-56.25°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	1
-58.75°	2	2	2	2	2	2	2	2	1	1	1
-60°	2	2	2	2	2	2	1	1	1	1	1
-61.25°	2	2	2	2	1	1	1	1	1	1	1
-62.5°	2	2	1	1	1	1	1	1	1	1	1
-63.75°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-66.25°	1	1	1	1	1	1	1	1	1	0	0
-67.5°	1	1	1	1	1	1	1	0	0	0	0
-68.75°	1	1	1	1	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	33.75°	35°	36.25°	37.5°	38.75°	40°	41.25°	42.5°	43.75°	45°	46.25°
-78.75°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	1	0	0	0	0	0	0	0	0	0	0
63.75°	1	1	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	1	0	0	0	0	0	0	0
61.25°	1	1	1	1	1	0	0	0	0	0	0
60°	1	1	1	1	1	1	1	0	0	0	0
58.75°	1	1	1	1	1	1	1	1	0	0	0
57.5°	1	1	1	1	1	1	1	1	1	0	0
56.25°	1	1	1	1	1	1	1	1	1	1	0
55°	2	2	1	1	1	1	1	1	1	1	1
53.75°	2	2	2	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	1	1	1	1	1	1	1
51.25°	2	2	2	2	2	1	1	1	1	1	1
50°	2	2	2	2	2	2	1	1	1	1	1
48.75°	2	2	2	2	2	2	2	1	1	1	1
47.5°	2	2	2	2	2	2	2	1	1	1	1
46.25°	3	2	2	2	2	2	2	2	1	1	1
45°	3	2	2	2	2	2	2	2	2	1	1
43.75°	3	3	2	2	2	2	2	2	2	1	1
42.5°	3	3	3	2	2	2	2	2	2	2	1
41.25°	3	3	3	3	2	2	2	2	2	2	1
40°	4	3	3	3	2	2	2	2	2	2	2
38.75°	4	4	3	3	3	2	2	2	2	2	2
37.5°	4	4	3	3	3	3	2	2	2	2	2
36.25°	4	4	4	3	3	3	2	2	2	2	2
35°	4	4	4	3	3	3	3	2	2	2	2



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
33.75°	5	4	4	4	3	3	3	2	2	2	2
32.5°	5	4	4	4	3	3	3	3	2	2	2
31.25°	5	5	4	4	4	3	3	3	2	2	2
30°	5	5	4	4	4	3	3	3	2	2	2
28.75°	5	5	5	4	4	4	3	3	3	2	2
27.5°	5	5	5	4	4	4	3	3	3	2	2
26.25°	6	5	5	5	4	4	4	3	3	2	2
25°	6	5	5	5	4	4	4	3	3	3	2
23.75°	6	5	5	5	4	4	4	3	3	3	2
22.5°	6	6	5	5	5	4	4	3	3	3	2
21.25°	6	6	5	5	5	4	4	4	3	3	2
20°	6	6	5	5	5	4	4	4	3	3	3
18.75°	6	6	6	5	5	4	4	4	3	3	3
17.5°	6	6	6	5	5	5	4	4	3	3	3
16.25°	7	6	6	5	5	5	4	4	4	3	3
15°	7	6	6	6	5	5	4	4	4	3	3
13.75°	7	6	6	6	5	5	4	4	4	3	3
12.5°	7	6	6	6	5	5	4	4	4	3	3
11.25°	7	6	6	6	5	5	5	4	4	3	3
10°	7	7	6	6	5	5	5	4	4	3	3
8.75°	7	7	6	6	5	5	5	4	4	3	3
7.5°	7	7	6	6	5	5	5	4	4	4	3
6.25°	7	7	6	6	6	5	5	4	4	4	3
5°	7	7	6	6	6	5	5	4	4	4	3
3.75°	7	7	6	6	6	5	5	4	4	4	3
2.5°	7	7	6	6	6	5	5	4	4	4	3
1.25°	7	7	6	6	6	5	5	4	4	4	3
0°	7	7	6	6	6	5	5	4	4	4	3
-1.25°	7	7	6	6	6	5	5	4	4	4	3
-2.5°	7	7	6	6	6	5	5	4	4	4	3
-3.75°	7	7	6	6	6	5	5	4	4	4	3
-5°	7	7	6	6	6	5	5	4	4	4	3
-6.25°	7	7	6	6	6	5	5	4	4	4	3
-7.5°	7	7	6	6	5	5	5	4	4	4	3
-8.75°	7	7	6	6	5	5	5	4	4	3	3
-10°	7	7	6	6	5	5	5	4	4	3	3
-11.25°	7	6	6	6	5	5	5	4	4	3	3
-12.5°	7	6	6	6	5	5	4	4	4	3	3
-13.75°	7	6	6	6	5	5	4	4	4	3	3
-15°	7	6	6	6	5	5	4	4	4	3	3
-16.25°	7	6	6	5	5	5	4	4	4	3	3
-17.5°	6	6	6	5	5	5	4	4	3	3	3
-18.75°	6	6	6	5	5	4	4	4	3	3	3
-20°	6	6	5	5	5	4	4	4	3	3	3
-21.25°	6	6	5	5	5	4	4	4	3	3	2





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
-22.5°	6	6	5	5	5	4	4	3	3	3	2
-23.75°	6	5	5	5	4	4	4	3	3	3	2
-25°	6	5	5	5	4	4	4	3	3	3	2
-26.25°	6	5	5	5	4	4	4	3	3	2	2
-27.5°	5	5	5	4	4	4	3	3	3	2	2
-28.75°	5	5	5	4	4	4	3	3	3	2	2
-30°	5	5	4	4	4	3	3	3	2	2	2
-31.25°	5	5	4	4	4	3	3	3	2	2	2
-32.5°	5	4	4	4	3	3	3	3	2	2	2
-33.75°	5	4	4	4	3	3	3	2	2	2	2
-35°	4	4	4	3	3	3	3	2	2	2	2
-36.25°	4	4	4	3	3	3	2	2	2	2	2
-37.5°	4	4	3	3	3	3	2	2	2	2	2
-38.75°	4	4	3	3	3	2	2	2	2	2	2
-40°	4	3	3	3	2	2	2	2	2	2	2
-41.25°	3	3	3	3	2	2	2	2	2	2	1
-42.5°	3	3	3	2	2	2	2	2	2	2	1
-43.75°	3	3	2	2	2	2	2	2	2	1	1
-45°	3	2	2	2	2	2	2	2	2	1	1
-46.25°	3	2	2	2	2	2	2	2	1	1	1
-47.5°	2	2	2	2	2	2	2	1	1	1	1
-48.75°	2	2	2	2	2	2	2	1	1	1	1
-50°	2	2	2	2	2	2	1	1	1	1	1
-51.25°	2	2	2	2	2	1	1	1	1	1	1
-52.5°	2	2	2	2	1	1	1	1	1	1	1
-53.75°	2	2	2	1	1	1	1	1	1	1	1
-55°	2	2	1	1	1	1	1	1	1	1	1
-56.25°	1	1	1	1	1	1	1	1	1	1	0
-57.5°	1	1	1	1	1	1	1	1	1	0	0
-58.75°	1	1	1	1	1	1	1	1	0	0	0
-60°	1	1	1	1	1	1	1	0	0	0	0
-61.25°	1	1	1	1	1	0	0	0	0	0	0
-62.5°	1	1	1	1	0	0	0	0	0	0	0
-63.75°	1	1	0	0	0	0	0	0	0	0	0
-65°	1	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	48.75°	50°	51.25°	52.5°	53.75°	55°	56.25°	57.5°	58.75°	60°
-78.75°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
63.75°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
61.25°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
58.75°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
56.25°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
53.75°	0	0	0	0	0	0	0	0	0	0	0
52.5°	1	0	0	0	0	0	0	0	0	0	0
51.25°	1	1	0	0	0	0	0	0	0	0	0
50°	1	1	0	0	0	0	0	0	0	0	0
48.75°	1	1	1	0	0	0	0	0	0	0	0
47.5°	1	1	1	1	0	0	0	0	0	0	0
46.25°	1	1	1	1	0	0	0	0	0	0	0
45°	1	1	1	1	0	0	0	0	0	0	0
43.75°	1	1	1	1	1	0	0	0	0	0	0
42.5°	1	1	1	1	1	0	0	0	0	0	0
41.25°	1	1	1	1	1	1	0	0	0	0	0
40°	1	1	1	1	1	1	0	0	0	0	0
38.75°	1	1	1	1	1	1	0	0	0	0	0
37.5°	2	1	1	1	1	1	1	0	0	0	0
36.25°	2	1	1	1	1	1	1	0	0	0	0
35°	2	2	1	1	1	1	1	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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°	2	2	1	1	1	1	1	0	0	0	0
32.5°	2	2	1	1	1	1	1	1	0	0	0
31.25°	2	2	2	1	1	1	1	1	0	0	0
30°	2	2	2	1	1	1	1	1	0	0	0
28.75°	2	2	2	1	1	1	1	1	0	0	0
27.5°	2	2	2	1	1	1	1	1	1	0	0
26.25°	2	2	2	2	1	1	1	1	1	0	0
25°	2	2	2	2	1	1	1	1	1	0	0
23.75°	2	2	2	2	1	1	1	1	1	0	0
22.5°	2	2	2	2	1	1	1	1	1	0	0
21.25°	2	2	2	2	1	1	1	1	1	0	0
20°	2	2	2	2	2	1	1	1	1	0	0
18.75°	2	2	2	2	2	1	1	1	1	0	0
17.5°	2	2	2	2	2	1	1	1	1	1	0
16.25°	2	2	2	2	2	1	1	1	1	1	0
15°	2	2	2	2	2	1	1	1	1	1	0
13.75°	3	2	2	2	2	1	1	1	1	1	0
12.5°	3	2	2	2	2	1	1	1	1	1	0
11.25°	3	2	2	2	2	1	1	1	1	1	0
10°	3	2	2	2	2	1	1	1	1	1	0
8.75°	3	2	2	2	2	2	1	1	1	1	0
7.5°	3	2	2	2	2	2	1	1	1	1	0
6.25°	3	2	2	2	2	2	1	1	1	1	0
5°	3	2	2	2	2	2	1	1	1	1	0
3.75°	3	2	2	2	2	2	1	1	1	1	0
2.5°	3	2	2	2	2	2	1	1	1	1	0
1.25°	3	2	2	2	2	2	1	1	1	1	0
0°	3	2	2	2	2	2	1	1	1	1	0
-1.25°	3	2	2	2	2	2	1	1	1	1	0
-2.5°	3	2	2	2	2	2	1	1	1	1	0
-3.75°	3	2	2	2	2	2	1	1	1	1	0
-5°	3	2	2	2	2	2	1	1	1	1	0
-6.25°	3	2	2	2	2	2	1	1	1	1	0
-7.5°	3	2	2	2	2	2	1	1	1	1	0
-8.75°	3	2	2	2	2	2	1	1	1	1	0
-10°	3	2	2	2	2	1	1	1	1	1	0
-11.25°	3	2	2	2	2	1	1	1	1	1	0
-12.5°	3	2	2	2	2	1	1	1	1	1	0
-13.75°	3	2	2	2	2	1	1	1	1	1	0
-15°	2	2	2	2	2	1	1	1	1	1	0
-16.25°	2	2	2	2	2	1	1	1	1	1	0
-17.5°	2	2	2	2	2	1	1	1	1	1	0
-18.75°	2	2	2	2	2	1	1	1	1	0	0
-20°	2	2	2	2	2	1	1	1	1	0	0
-21.25°	2	2	2	2	1	1	1	1	1	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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°	2	2	2	2	1	1	1	1	1	0	0
-23.75°	2	2	2	2	1	1	1	1	1	0	0
-25°	2	2	2	2	1	1	1	1	1	0	0
-26.25°	2	2	2	2	1	1	1	1	1	0	0
-27.5°	2	2	2	1	1	1	1	1	1	0	0
-28.75°	2	2	2	1	1	1	1	1	0	0	0
-30°	2	2	2	1	1	1	1	1	0	0	0
-31.25°	2	2	2	1	1	1	1	1	0	0	0
-32.5°	2	2	1	1	1	1	1	1	0	0	0
-33.75°	2	2	1	1	1	1	1	0	0	0	0
-35°	2	2	1	1	1	1	1	0	0	0	0
-36.25°	2	1	1	1	1	1	1	0	0	0	0
-37.5°	2	1	1	1	1	1	1	0	0	0	0
-38.75°	1	1	1	1	1	1	0	0	0	0	0
-40°	1	1	1	1	1	1	0	0	0	0	0
-41.25°	1	1	1	1	1	1	0	0	0	0	0
-42.5°	1	1	1	1	1	0	0	0	0	0	0
-43.75°	1	1	1	1	1	0	0	0	0	0	0
-45°	1	1	1	1	0	0	0	0	0	0	0
-46.25°	1	1	1	1	0	0	0	0	0	0	0
-47.5°	1	1	1	1	0	0	0	0	0	0	0
-48.75°	1	1	1	0	0	0	0	0	0	0	0
-50°	1	1	0	0	0	0	0	0	0	0	0
-51.25°	1	1	0	0	0	0	0	0	0	0	0
-52.5°	1	0	0	0	0	0	0	0	0	0	0
-53.75°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-56.25°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-58.75°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-61.25°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-63.75°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**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
88.75°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
86.25°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
83.75°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
81.25°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
78.75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
76.25°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
73.75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
71.25°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
68.75°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
66.25°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
63.75°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
61.25°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
58.75°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
56.25°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
53.75°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
51.25°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
48.75°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
46.25°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
43.75°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
41.25°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
38.75°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
36.25°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
31.25°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
28.75°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
26.25°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
23.75°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
21.25°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
18.75°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
16.25°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
13.75°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
11.25°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
8.75°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
6.25°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
3.75°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
1.25°	0	0	0	0	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0	0	0	0	0
-1.25°	0	0	0	0	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0	0	0	0	0
-3.75°	0	0	0	0	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0	0	0	0	0
-6.25°	0	0	0	0	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0	0	0	0	0
-8.75°	0	0	0	0	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0	0	0	0	0
-11.25°	0	0	0	0	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0	0	0	0	0
-13.75°	0	0	0	0	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0	0	0	0	0
-16.25°	0	0	0	0	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0	0	0	0	0
-18.75°	0	0	0	0	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0	0	0	0	0
-21.25°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-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°	0	0	0	0	0	0	0	0	0	0	0
-23.75°	0	0	0	0	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0	0	0	0	0
-26.25°	0	0	0	0	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0	0	0	0	0
-28.75°	0	0	0	0	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0	0	0	0	0
-31.25°	0	0	0	0	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0	0	0	0	0
-33.75°	0	0	0	0	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0	0	0	0	0
-36.25°	0	0	0	0	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0	0	0	0	0
-38.75°	0	0	0	0	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0	0	0	0	0
-41.25°	0	0	0	0	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-43.75°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-46.25°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-48.75°	0	0	0	0	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0	0	0	0	0
-51.25°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-53.75°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-56.25°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-58.75°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-61.25°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-63.75°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-66.25°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-68.75°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-71.25°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-73.75°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-76.25°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	76.25°	77.5°	78.75°	80°	81.25°	82.5°	83.75°	85°	86.25°	87.5°
-78.75°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-81.25°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-83.75°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-86.25°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-88.75°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
90°	0	0
88.75°	0	0
87.5°	0	0
86.25°	0	0
85°	0	0
83.75°	0	0
82.5°	0	0
81.25°	0	0
80°	0	0
78.75°	0	0
77.5°	0	0
76.25°	0	0
75°	0	0
73.75°	0	0
72.5°	0	0
71.25°	0	0
70°	0	0
68.75°	0	0
67.5°	0	0
66.25°	0	0
65°	0	0
63.75°	0	0
62.5°	0	0
61.25°	0	0
60°	0	0
58.75°	0	0
57.5°	0	0
56.25°	0	0
55°	0	0
53.75°	0	0
52.5°	0	0
51.25°	0	0
50°	0	0
48.75°	0	0
47.5°	0	0
46.25°	0	0
45°	0	0
43.75°	0	0
42.5°	0	0
41.25°	0	0
40°	0	0
38.75°	0	0
37.5°	0	0
36.25°	0	0
35°	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
-22.5°	0	0
-23.75°	0	0
-25°	0	0
-26.25°	0	0
-27.5°	0	0
-28.75°	0	0
-30°	0	0
-31.25°	0	0
-32.5°	0	0
-33.75°	0	0
-35°	0	0
-36.25°	0	0
-37.5°	0	0
-38.75°	0	0
-40°	0	0
-41.25°	0	0
-42.5°	0	0
-43.75°	0	0
-45°	0	0
-46.25°	0	0
-47.5°	0	0
-48.75°	0	0
-50°	0	0
-51.25°	0	0
-52.5°	0	0
-53.75°	0	0
-55°	0	0
-56.25°	0	0
-57.5°	0	0
-58.75°	0	0
-60°	0	0
-61.25°	0	0
-62.5°	0	0
-63.75°	0	0
-65°	0	0
-66.25°	0	0
-67.5°	0	0
-68.75°	0	0
-70°	0	0
-71.25°	0	0
-72.5°	0	0
-73.75°	0	0
-75°	0	0
-76.25°	0	0
-77.5°	0	0



REPORT NUMBER: P220545 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-F-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	88.75°	90°
-78.75°	0	0
-80°	0	0
-81.25°	0	0
-82.5°	0	0
-83.75°	0	0
-85°	0	0
-86.25°	0	0
-87.5°	0	0
-88.75°	0	0
-90°	0	0

(END OF REPORT)