

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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

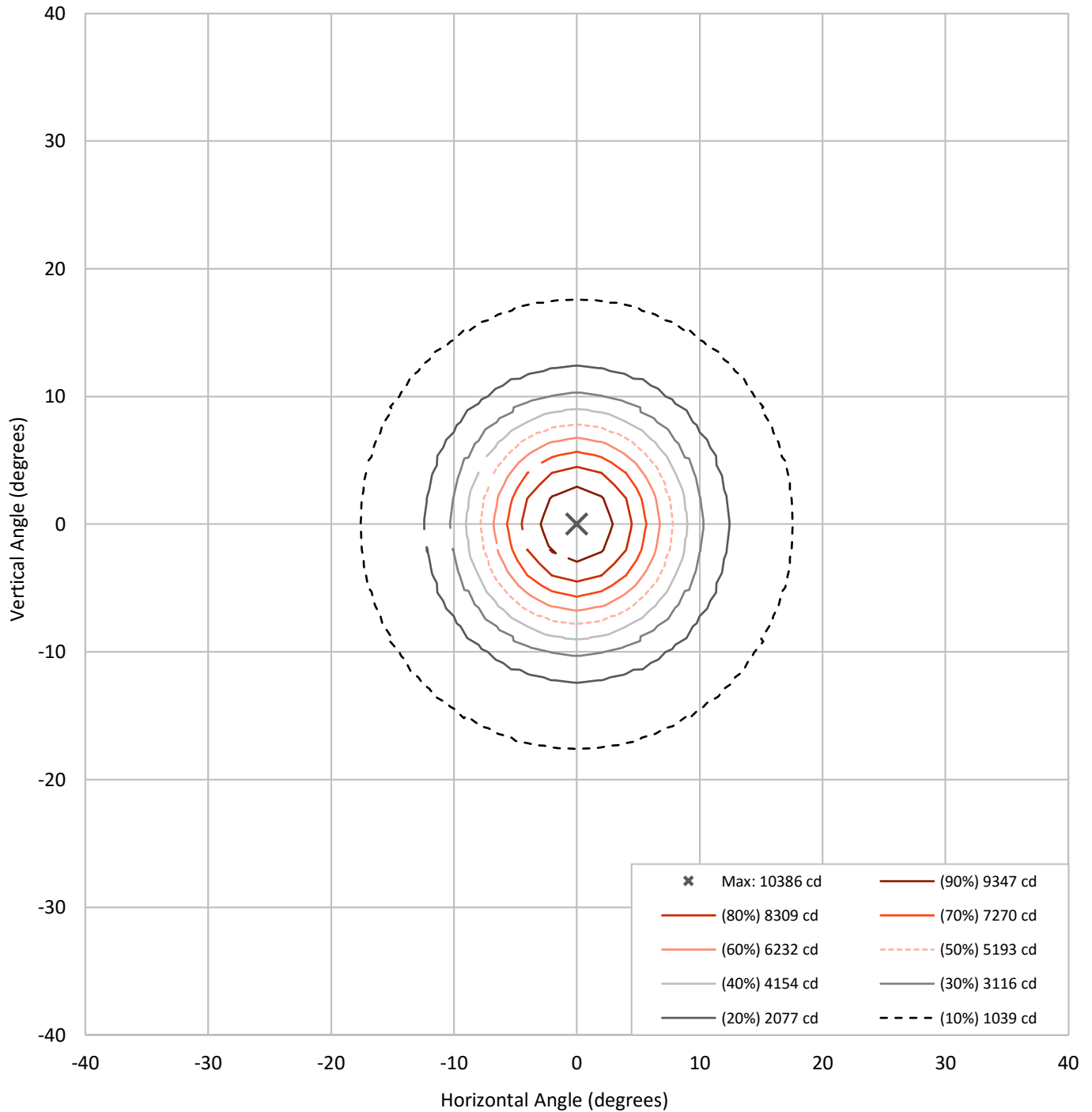
Test Method: LM-79-08
Report Number: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29472)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-BK-L2-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	1209.9 lumens	Max Intensity:	10386 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	60.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.25' x H: 0')		
Beam Angle (50%):	15.7°H x 15.7°V	Field Angle (10%):	35°H x 35°V
Beam Lumens:	431.3 lumens	Field Lumens:	926.8 lumens
Beam Efficiency:	35.6%	Field Efficiency:	76.6%
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		

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

Iso-Candela Plot





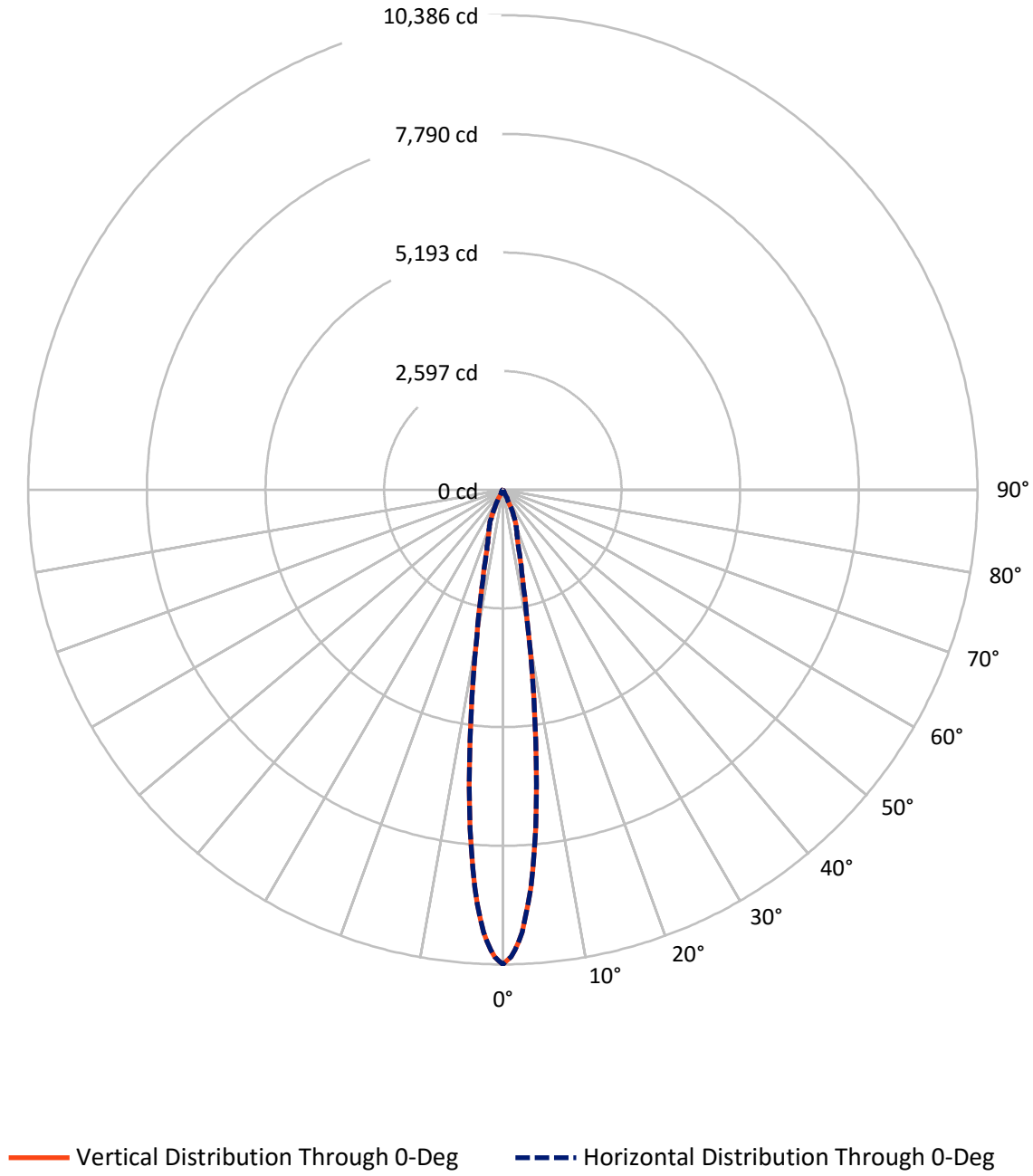
REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-BK-L2-UNV

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	0.1	0.1	0.1	0.1	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	0.2	0.2	0.1	0.1	0.1	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	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.4	0.3	0.2	0.1	0.1		
30	0.0	0.0	0.1	0.1	0.2	0.6	3.7	10.6	10.6	3.7	0.6	0.2	0.1	0.1	0.0	
20		0.0	0.1	0.2	0.4	3.5	21.8	41.4	41.4	21.8	3.5	0.4	0.2	0.1		
10	0.0	0.0	0.1	0.2	0.5	9.8	40.3	165.3	165.3	40.3	9.8	0.5	0.2	0.1	0.0	
0		0.0	0.1	0.2	0.5	9.8	40.3	165.3	165.3	40.3	9.8	0.5	0.2	0.1		
-10	0.0	0.0	0.1	0.2	0.4	3.5	21.8	41.4	41.4	21.8	3.5	0.4	0.2	0.1	0.0	
-20		0.0	0.1	0.1	0.2	0.6	3.7	10.6	10.6	3.7	0.6	0.2	0.1	0.1		
-30	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.4	0.3	0.2	0.1	0.1	0.0	
-40		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		
-50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	
-60		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	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	0.1	0.1	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		
-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	

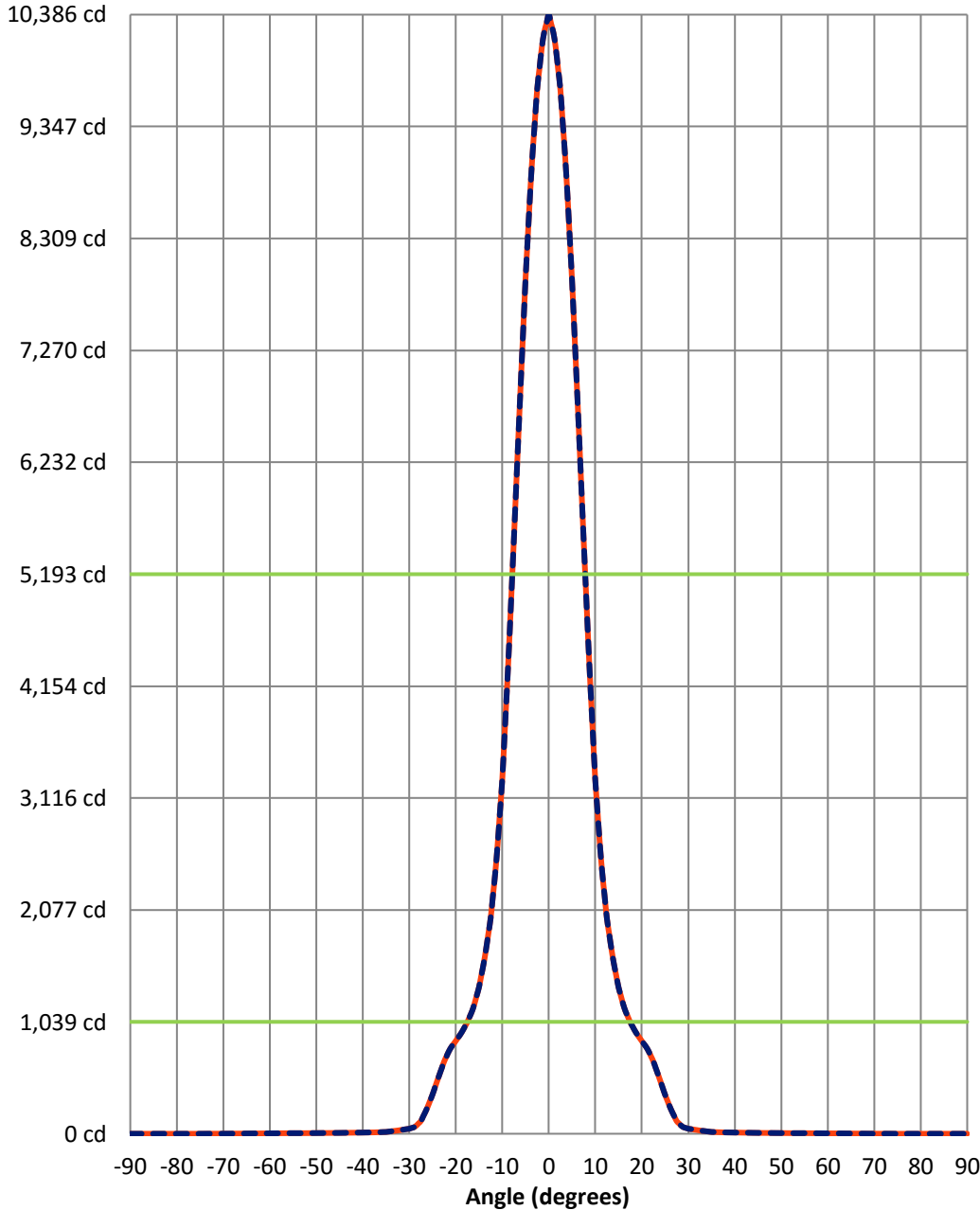
REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-BK-L2-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
 H Angle: 15.7°
 V Angle: 15.7°
 Lumens: 431.3
 Efficiency: 35.6%

Field:
 H Angle: 35°
 V Angle: 35°
 Lumens: 926.8
 Efficiency: 76.6%

Spill:
 Lumens: 283.1
 Efficiency: 23.4%

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



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3
12.5°	0	0	0	1	1	1	1	1	2	2	3
11.25°	0	0	0	1	1	1	1	1	2	2	3
10°	0	0	0	1	1	1	1	1	2	2	3
8.75°	0	0	0	1	1	1	1	2	2	2	3
7.5°	0	0	0	1	1	1	1	2	2	2	3
6.25°	0	0	0	1	1	1	1	2	2	2	3
5°	0	0	0	1	1	1	1	2	2	2	3
3.75°	0	0	0	1	1	1	1	2	2	2	3
2.5°	0	0	0	1	1	1	1	2	2	2	3
1.25°	0	0	0	1	1	1	1	2	2	2	3
0°	0	0	0	1	1	1	1	2	2	2	3
-1.25°	0	0	0	1	1	1	1	2	2	2	3
-2.5°	0	0	0	1	1	1	1	2	2	2	3
-3.75°	0	0	0	1	1	1	1	2	2	2	3
-5°	0	0	0	1	1	1	1	2	2	2	3
-6.25°	0	0	0	1	1	1	1	2	2	2	3
-7.5°	0	0	0	1	1	1	1	2	2	2	3
-8.75°	0	0	0	1	1	1	1	2	2	2	3
-10°	0	0	0	1	1	1	1	1	2	2	3
-11.25°	0	0	0	1	1	1	1	1	2	2	3
-12.5°	0	0	0	1	1	1	1	1	2	2	3
-13.75°	0	0	0	1	1	1	1	1	2	2	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3
46.25°	1	1	1	1	1	2	2	2	2	3	3
45°	1	1	1	1	2	2	2	2	3	3	3
43.75°	1	1	1	1	2	2	2	2	3	3	3
42.5°	1	1	1	2	2	2	2	3	3	3	3
41.25°	1	1	1	2	2	2	3	3	3	3	4
40°	1	1	2	2	2	2	3	3	3	4	4
38.75°	1	1	2	2	2	3	3	3	3	4	4
37.5°	1	2	2	2	2	3	3	3	4	4	4
36.25°	1	2	2	2	3	3	3	4	4	4	4
35°	2	2	2	2	3	3	3	4	4	4	5



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3	3	3	4	4	4	4	5
32.5°	2	2	2	3	3	3	4	4	4	5	5
31.25°	2	2	2	3	3	3	4	4	4	5	5
30°	2	2	3	3	3	4	4	4	5	5	5
28.75°	2	2	3	3	3	4	4	4	5	5	5
27.5°	2	2	3	3	4	4	4	5	5	5	6
26.25°	2	3	3	3	4	4	4	5	5	5	6
25°	2	3	3	3	4	4	4	5	5	5	6
23.75°	2	3	3	3	4	4	5	5	5	6	6
22.5°	2	3	3	4	4	4	5	5	5	6	6
21.25°	3	3	3	4	4	4	5	5	5	6	6
20°	3	3	3	4	4	4	5	5	6	6	6
18.75°	3	3	3	4	4	5	5	5	6	6	6
17.5°	3	3	4	4	4	5	5	5	6	6	6
16.25°	3	3	4	4	4	5	5	5	6	6	6
15°	3	3	4	4	4	5	5	6	6	6	6
13.75°	3	3	4	4	4	5	5	6	6	6	6
12.5°	3	3	4	4	5	5	5	6	6	6	6
11.25°	3	3	4	4	5	5	5	6	6	6	6
10°	3	3	4	4	5	5	5	6	6	6	6
8.75°	3	3	4	4	5	5	5	6	6	6	6
7.5°	3	4	4	4	5	5	5	6	6	6	6
6.25°	3	4	4	4	5	5	6	6	6	6	6
5°	3	4	4	4	5	5	6	6	6	6	6
3.75°	3	4	4	4	5	5	6	6	6	6	6
2.5°	3	4	4	4	5	5	6	6	6	6	6
1.25°	3	4	4	4	5	5	6	6	6	6	6
0°	3	4	4	4	5	5	6	6	6	6	6
-1.25°	3	4	4	4	5	5	6	6	6	6	6
-2.5°	3	4	4	4	5	5	6	6	6	6	6
-3.75°	3	4	4	4	5	5	6	6	6	6	6
-5°	3	4	4	4	5	5	6	6	6	6	6
-6.25°	3	4	4	4	5	5	6	6	6	6	6
-7.5°	3	4	4	4	5	5	5	6	6	6	6
-8.75°	3	3	4	4	5	5	5	6	6	6	6
-10°	3	3	4	4	5	5	5	6	6	6	6
-11.25°	3	3	4	4	5	5	5	6	6	6	6
-12.5°	3	3	4	4	5	5	5	6	6	6	6
-13.75°	3	3	4	4	4	5	5	6	6	6	6
-15°	3	3	4	4	4	5	5	6	6	6	6
-16.25°	3	3	4	4	4	5	5	5	6	6	6
-17.5°	3	3	4	4	4	5	5	5	6	6	6
-18.75°	3	3	3	4	4	5	5	5	6	6	6
-20°	3	3	3	4	4	4	5	5	6	6	6
-21.25°	3	3	3	4	4	4	5	5	5	6	6



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3	3	4	4	4	5	5	5	6	6
-23.75°	2	3	3	3	4	4	5	5	5	6	6
-25°	2	3	3	3	4	4	4	5	5	5	6
-26.25°	2	3	3	3	4	4	4	5	5	5	6
-27.5°	2	2	3	3	4	4	4	5	5	5	6
-28.75°	2	2	3	3	3	4	4	4	5	5	5
-30°	2	2	3	3	3	4	4	4	5	5	5
-31.25°	2	2	2	3	3	3	4	4	4	5	5
-32.5°	2	2	2	3	3	3	4	4	4	5	5
-33.75°	2	2	2	3	3	3	4	4	4	4	5
-35°	2	2	2	2	3	3	3	4	4	4	5
-36.25°	1	2	2	2	3	3	3	4	4	4	4
-37.5°	1	2	2	2	2	3	3	3	4	4	4
-38.75°	1	1	2	2	2	3	3	3	3	4	4
-40°	1	1	2	2	2	2	3	3	3	4	4
-41.25°	1	1	1	2	2	2	3	3	3	3	4
-42.5°	1	1	1	2	2	2	2	3	3	3	3
-43.75°	1	1	1	1	2	2	2	2	3	3	3
-45°	1	1	1	1	2	2	2	2	3	3	3
-46.25°	1	1	1	1	1	2	2	2	2	3	3
-47.5°	1	1	1	1	1	1	2	2	2	2	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3
56.25°	1	1	2	2	2	2	2	2	3	3	3
55°	2	2	2	2	2	2	3	3	3	3	3
53.75°	2	2	2	2	2	3	3	3	3	3	4
52.5°	2	2	2	3	3	3	3	3	3	4	4
51.25°	2	2	3	3	3	3	3	4	4	4	4
50°	2	3	3	3	3	3	4	4	4	4	4
48.75°	3	3	3	3	4	4	4	4	4	4	5
47.5°	3	3	3	4	4	4	4	4	5	5	5
46.25°	3	3	4	4	4	4	4	5	5	5	5
45°	3	4	4	4	4	4	5	5	5	5	6
43.75°	4	4	4	4	4	5	5	5	5	6	6
42.5°	4	4	4	4	5	5	5	5	6	6	6
41.25°	4	4	4	5	5	5	5	6	6	6	6
40°	4	4	5	5	5	5	6	6	6	6	6
38.75°	4	5	5	5	5	6	6	6	6	6	6
37.5°	4	5	5	5	6	6	6	6	6	6	6
36.25°	5	5	5	6	6	6	6	6	6	6	7
35°	5	5	5	6	6	6	6	6	6	7	7



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	5	5	6	6	6	6	6	6	7	7	7
32.5°	5	6	6	6	6	6	6	6	7	7	7
31.25°	5	6	6	6	6	6	6	7	7	7	8
30°	6	6	6	6	6	6	7	7	7	7	8
28.75°	6	6	6	6	6	6	7	7	7	8	8
27.5°	6	6	6	6	6	7	7	7	8	8	8
26.25°	6	6	6	6	7	7	7	7	8	8	9
25°	6	6	6	6	7	7	7	8	8	9	9
23.75°	6	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	10
20°	6	6	7	7	7	8	8	9	9	10	11
18.75°	6	6	7	7	7	8	8	9	10	10	11
17.5°	6	6	7	7	8	8	9	9	10	11	11
16.25°	6	7	7	7	8	8	9	10	10	11	12
15°	6	7	7	7	8	8	9	10	10	11	12
13.75°	6	7	7	7	8	8	9	10	11	11	12
12.5°	6	7	7	8	8	9	9	10	11	12	12
11.25°	6	7	7	8	8	9	10	10	11	12	13
10°	7	7	7	8	8	9	10	11	11	12	13
8.75°	7	7	7	8	8	9	10	11	11	12	13
7.5°	7	7	7	8	8	9	10	11	12	12	14
6.25°	7	7	7	8	9	9	10	11	12	13	14
5°	7	7	8	8	9	9	10	11	12	13	14
3.75°	7	7	8	8	9	10	10	11	12	13	15
2.5°	7	7	8	8	9	10	10	11	12	13	15
1.25°	7	7	8	8	9	10	10	11	12	13	15
0°	7	7	8	8	9	10	10	11	12	13	15
-1.25°	7	7	8	8	9	10	10	11	12	13	15
-2.5°	7	7	8	8	9	10	10	11	12	13	15
-3.75°	7	7	8	8	9	10	10	11	12	13	15
-5°	7	7	8	8	9	9	10	11	12	13	14
-6.25°	7	7	7	8	9	9	10	11	12	13	14
-7.5°	7	7	7	8	8	9	10	11	12	12	14
-8.75°	7	7	7	8	8	9	10	11	11	12	13
-10°	7	7	7	8	8	9	10	11	11	12	13
-11.25°	6	7	7	8	8	9	10	10	11	12	13
-12.5°	6	7	7	8	8	9	9	10	11	12	12
-13.75°	6	7	7	7	8	8	9	10	11	11	12
-15°	6	7	7	7	8	8	9	10	10	11	12
-16.25°	6	7	7	7	8	8	9	10	10	11	12
-17.5°	6	6	7	7	8	8	9	9	10	11	11
-18.75°	6	6	7	7	7	8	8	9	10	10	11
-20°	6	6	7	7	7	8	8	9	9	10	11
-21.25°	6	6	6	7	7	7	8	8	9	10	10



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	6	6	6	7	7	7	8	8	8	9	10
-25°	6	6	6	6	7	7	7	8	8	9	9
-26.25°	6	6	6	6	7	7	7	7	8	8	9
-27.5°	6	6	6	6	6	7	7	7	8	8	8
-28.75°	6	6	6	6	6	6	7	7	7	8	8
-30°	6	6	6	6	6	6	7	7	7	7	8
-31.25°	5	6	6	6	6	6	6	7	7	7	8
-32.5°	5	6	6	6	6	6	6	6	7	7	7
-33.75°	5	5	6	6	6	6	6	6	7	7	7
-35°	5	5	5	6	6	6	6	6	6	7	7
-36.25°	5	5	5	6	6	6	6	6	6	6	7
-37.5°	4	5	5	5	6	6	6	6	6	6	6
-38.75°	4	5	5	5	5	6	6	6	6	6	6
-40°	4	4	5	5	5	5	6	6	6	6	6
-41.25°	4	4	4	5	5	5	5	6	6	6	6
-42.5°	4	4	4	4	5	5	5	5	6	6	6
-43.75°	4	4	4	4	4	5	5	5	5	6	6
-45°	3	4	4	4	4	4	5	5	5	5	6
-46.25°	3	3	4	4	4	4	4	5	5	5	5
-47.5°	3	3	3	4	4	4	4	4	5	5	5
-48.75°	3	3	3	3	4	4	4	4	4	4	5
-50°	2	3	3	3	3	3	4	4	4	4	4
-51.25°	2	2	3	3	3	3	3	4	4	4	4
-52.5°	2	2	2	3	3	3	3	3	3	4	4
-53.75°	2	2	2	2	2	3	3	3	3	3	4
-55°	2	2	2	2	2	2	3	3	3	3	3
-56.25°	1	1	2	2	2	2	2	2	3	3	3
-57.5°	1	1	1	2	2	2	2	2	2	2	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3	3	3	3
60°	2	2	2	2	3	3	3	3	3	3	3
58.75°	2	3	3	3	3	3	3	3	3	3	4
57.5°	3	3	3	3	3	3	4	4	4	4	4
56.25°	3	3	3	3	4	4	4	4	4	4	4
55°	3	4	4	4	4	4	4	4	4	5	5
53.75°	4	4	4	4	4	4	5	5	5	5	5
52.5°	4	4	4	4	5	5	5	5	5	5	5
51.25°	4	4	5	5	5	5	5	5	5	6	6
50°	5	5	5	5	5	5	6	6	6	6	6
48.75°	5	5	5	5	6	6	6	6	6	6	6
47.5°	5	5	6	6	6	6	6	6	6	6	6
46.25°	5	6	6	6	6	6	6	6	6	6	6
45°	6	6	6	6	6	6	6	6	6	7	7
43.75°	6	6	6	6	6	6	6	7	7	7	7
42.5°	6	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	10	11



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	10	10	11	11
32.5°	8	8	8	9	9	10	10	11	11	12	12
31.25°	8	8	9	9	10	10	11	11	12	12	13
30°	8	9	9	10	10	11	11	12	12	13	14
28.75°	9	9	10	10	11	11	12	12	13	14	15
27.5°	9	10	10	11	11	12	12	13	14	16	17
26.25°	9	10	11	11	12	12	13	14	16	18	22
25°	10	10	11	12	12	13	14	16	18	22	27
23.75°	10	11	12	12	13	14	16	18	22	27	32
22.5°	11	11	12	13	14	15	17	22	27	32	38
21.25°	11	12	12	13	15	16	21	26	31	37	43
20°	11	12	13	14	16	19	25	30	36	43	49
18.75°	12	12	14	15	17	23	28	35	41	48	57
17.5°	12	13	14	16	20	26	32	39	46	55	78
16.25°	12	14	15	18	24	29	36	43	52	70	118
15°	13	14	16	20	26	33	40	47	59	94	169
13.75°	13	15	17	23	29	36	44	53	76	135	235
12.5°	14	16	19	25	32	39	47	60	100	185	300
11.25°	14	16	21	27	35	42	51	73	134	239	361
10°	15	17	23	29	37	45	55	87	171	291	425
8.75°	15	18	25	31	39	48	64	113	213	339	482
7.5°	16	20	26	33	41	51	73	136	250	384	533
6.25°	16	21	27	35	43	53	80	158	284	425	576
5°	16	22	28	36	45	55	90	183	312	459	613
3.75°	17	23	29	37	46	57	102	203	335	486	638
2.5°	17	23	30	38	46	61	111	216	351	505	656
1.25°	17	23	30	39	47	63	116	225	361	517	667
0°	17	24	30	39	47	64	118	228	364	521	671
-1.25°	17	23	30	39	47	63	116	225	361	517	667
-2.5°	17	23	30	38	46	61	111	216	351	505	656
-3.75°	17	23	29	37	46	57	102	203	335	486	638
-5°	16	22	28	36	45	55	90	183	312	459	613
-6.25°	16	21	27	35	43	53	80	158	284	425	576
-7.5°	16	20	26	33	41	51	73	136	250	384	533
-8.75°	15	18	25	31	39	48	64	113	213	339	482
-10°	15	17	23	29	37	45	55	87	171	291	425
-11.25°	14	16	21	27	35	42	51	73	134	239	361
-12.5°	14	16	19	25	32	39	47	60	100	185	300
-13.75°	13	15	17	23	29	36	44	53	76	135	235
-15°	13	14	16	20	26	33	40	47	59	94	169
-16.25°	12	14	15	18	24	29	36	43	52	70	118
-17.5°	12	13	14	16	20	26	32	39	46	55	78
-18.75°	12	12	14	15	17	23	28	35	41	48	57
-20°	11	12	13	14	16	19	25	30	36	43	49
-21.25°	11	12	12	13	15	16	21	26	31	37	43



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	11	11	12	13	14	15	17	22	27	32	38
-23.75°	10	11	12	12	13	14	16	18	22	27	32
-25°	10	10	11	12	12	13	14	16	18	22	27
-26.25°	9	10	11	11	12	12	13	14	16	18	22
-27.5°	9	10	10	11	11	12	12	13	14	16	17
-28.75°	9	9	10	10	11	11	12	12	13	14	15
-30°	8	9	9	10	10	11	11	12	12	13	14
-31.25°	8	8	9	9	10	10	11	11	12	12	13
-32.5°	8	8	8	9	9	10	10	11	11	12	12
-33.75°	7	8	8	8	9	9	10	10	10	11	11
-35°	7	7	8	8	8	9	9	9	10	10	11
-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°	6	6	6	6	6	6	7	7	7	7	7
-43.75°	6	6	6	6	6	6	6	7	7	7	7
-45°	6	6	6	6	6	6	6	6	6	7	7
-46.25°	5	6	6	6	6	6	6	6	6	6	6
-47.5°	5	5	6	6	6	6	6	6	6	6	6
-48.75°	5	5	5	5	6	6	6	6	6	6	6
-50°	5	5	5	5	5	5	6	6	6	6	6
-51.25°	4	4	5	5	5	5	5	5	5	6	6
-52.5°	4	4	4	4	5	5	5	5	5	5	5
-53.75°	4	4	4	4	4	4	5	5	5	5	5
-55°	3	4	4	4	4	4	4	4	4	5	5
-56.25°	3	3	3	3	4	4	4	4	4	4	4
-57.5°	3	3	3	3	3	3	4	4	4	4	4
-58.75°	2	3	3	3	3	3	3	3	3	3	4
-60°	2	2	2	2	3	3	3	3	3	3	3
-61.25°	2	2	2	2	2	2	2	3	3	3	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	3	3	3	3	3
62.5°	3	3	3	3	3	3	3	3	3	3	3
61.25°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	4	4	4	4	4	4	4	4
58.75°	4	4	4	4	4	4	4	4	4	4	4
57.5°	4	4	4	4	4	4	4	5	5	5	5
56.25°	4	4	5	5	5	5	5	5	5	5	5
55°	5	5	5	5	5	5	5	5	5	5	5
53.75°	5	5	5	5	5	6	6	6	6	6	6
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°	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	10	10	11	11
38.75°	9	9	10	10	10	10	11	11	11	11	11
37.5°	10	10	10	11	11	11	11	12	12	12	12
36.25°	10	11	11	11	12	12	12	12	13	13	13
35°	11	11	12	12	12	13	13	14	14	15	15



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	12	12	12	13	14	14	15	16	16	17	18
32.5°	12	13	14	14	15	16	17	19	21	23	25
31.25°	13	14	15	16	18	20	23	25	27	29	31
30°	15	16	17	20	24	26	29	32	35	37	39
28.75°	16	19	23	26	29	33	36	39	42	45	48
27.5°	21	25	28	32	36	40	44	47	51	55	64
26.25°	26	30	35	39	43	47	53	60	73	87	113
25°	31	36	41	46	52	59	76	100	134	171	213
23.75°	37	43	48	55	70	94	135	185	239	291	339
22.5°	43	49	57	78	118	169	235	300	361	425	482
21.25°	50	61	83	134	200	274	349	426	499	567	626
20°	61	85	142	219	302	387	475	559	634	696	746
18.75°	83	142	225	316	412	509	602	681	746	794	828
17.5°	134	219	316	420	526	627	713	776	823	857	890
16.25°	200	302	412	526	635	728	794	840	880	919	964
15°	274	387	509	627	728	800	848	894	944	997	1053
13.75°	349	475	602	713	794	848	899	957	1020	1086	1163
12.5°	426	559	681	776	840	894	957	1028	1107	1198	1324
11.25°	499	634	746	823	880	944	1020	1107	1215	1359	1526
10°	567	696	794	857	919	997	1086	1198	1359	1549	1760
8.75°	626	746	828	890	964	1053	1163	1324	1526	1760	2053
7.5°	673	783	853	920	1007	1110	1254	1456	1700	2008	2409
6.25°	714	812	877	953	1047	1166	1347	1583	1878	2281	2815
5°	742	829	897	981	1082	1226	1442	1712	2071	2568	3244
3.75°	762	843	913	1004	1117	1284	1520	1815	2245	2857	3680
2.5°	776	853	926	1022	1142	1326	1579	1915	2401	3092	4016
1.25°	784	859	935	1033	1158	1352	1621	1979	2497	3238	4244
0°	787	861	938	1037	1163	1361	1635	2000	2530	3287	4325
-1.25°	784	859	935	1033	1158	1352	1621	1979	2497	3238	4244
-2.5°	776	853	926	1022	1142	1326	1579	1915	2401	3092	4016
-3.75°	762	843	913	1004	1117	1284	1520	1815	2245	2857	3680
-5°	742	829	897	981	1082	1226	1442	1712	2071	2568	3244
-6.25°	714	812	877	953	1047	1166	1347	1583	1878	2281	2815
-7.5°	673	783	853	920	1007	1110	1254	1456	1700	2008	2409
-8.75°	626	746	828	890	964	1053	1163	1324	1526	1760	2053
-10°	567	696	794	857	919	997	1086	1198	1359	1549	1760
-11.25°	499	634	746	823	880	944	1020	1107	1215	1359	1526
-12.5°	426	559	681	776	840	894	957	1028	1107	1198	1324
-13.75°	349	475	602	713	794	848	899	957	1020	1086	1163
-15°	274	387	509	627	728	800	848	894	944	997	1053
-16.25°	200	302	412	526	635	728	794	840	880	919	964
-17.5°	134	219	316	420	526	627	713	776	823	857	890
-18.75°	83	142	225	316	412	509	602	681	746	794	828
-20°	61	85	142	219	302	387	475	559	634	696	746
-21.25°	50	61	83	134	200	274	349	426	499	567	626



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	43	49	57	78	118	169	235	300	361	425	482
-23.75°	37	43	48	55	70	94	135	185	239	291	339
-25°	31	36	41	46	52	59	76	100	134	171	213
-26.25°	26	30	35	39	43	47	53	60	73	87	113
-27.5°	21	25	28	32	36	40	44	47	51	55	64
-28.75°	16	19	23	26	29	33	36	39	42	45	48
-30°	15	16	17	20	24	26	29	32	35	37	39
-31.25°	13	14	15	16	18	20	23	25	27	29	31
-32.5°	12	13	14	14	15	16	17	19	21	23	25
-33.75°	12	12	12	13	14	14	15	16	16	17	18
-35°	11	11	12	12	12	13	13	14	14	15	15
-36.25°	10	11	11	11	12	12	12	12	13	13	13
-37.5°	10	10	10	11	11	11	11	12	12	12	12
-38.75°	9	9	10	10	10	10	11	11	11	11	11
-40°	8	9	9	9	10	10	10	10	10	11	11
-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°	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	6	6	6	6	6	6
-55°	5	5	5	5	5	5	5	5	5	5	5
-56.25°	4	4	5	5	5	5	5	5	5	5	5
-57.5°	4	4	4	4	4	4	4	5	5	5	5
-58.75°	4	4	4	4	4	4	4	4	4	4	4
-60°	3	3	3	4	4	4	4	4	4	4	4
-61.25°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-63.75°	2	2	2	2	2	2	3	3	3	3	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	3	3	3	3	3	3	3	3	3	3
62.5°	3	3	3	3	3	3	3	3	3	3	3
61.25°	4	4	4	4	4	4	4	4	4	4	4
60°	4	4	4	4	4	4	4	4	4	4	4
58.75°	4	4	4	4	4	4	4	4	4	4	4
57.5°	5	5	5	5	5	5	5	5	5	5	5
56.25°	5	5	5	5	5	5	5	5	5	5	5
55°	5	6	6	6	6	6	6	6	6	6	6
53.75°	6	6	6	6	6	6	6	6	6	6	6
52.5°	6	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	10	10	10	10	10	10	10	10	10	10
40°	11	11	11	11	11	11	11	11	11	11	11
38.75°	12	12	12	12	12	12	12	12	12	12	12
37.5°	12	13	13	13	13	13	13	13	13	13	13
36.25°	14	14	14	15	15	15	15	15	15	15	14
35°	16	16	16	17	17	17	17	17	17	17	16



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	20	21	22	23	23	23	24	23	23	23	22
32.5°	26	27	28	29	30	30	30	30	30	29	28
31.25°	33	35	36	37	38	39	39	39	38	37	36
30°	41	43	45	46	46	47	47	47	46	46	45
28.75°	51	53	55	57	61	63	64	63	61	57	55
27.5°	73	80	90	102	111	116	118	116	111	102	90
26.25°	136	158	183	203	216	225	228	225	216	203	183
25°	250	284	312	335	351	361	364	361	351	335	312
23.75°	384	425	459	486	505	517	521	517	505	486	459
22.5°	533	576	613	638	656	667	671	667	656	638	613
21.25°	673	714	742	762	776	784	787	784	776	762	742
20°	783	812	829	843	853	859	861	859	853	843	829
18.75°	853	877	897	913	926	935	938	935	926	913	897
17.5°	920	953	981	1004	1022	1033	1037	1033	1022	1004	981
16.25°	1007	1047	1082	1117	1142	1158	1163	1158	1142	1117	1082
15°	1110	1166	1226	1284	1326	1352	1361	1352	1326	1284	1226
13.75°	1254	1347	1442	1520	1579	1621	1635	1621	1579	1520	1442
12.5°	1456	1583	1712	1815	1915	1979	2000	1979	1915	1815	1712
11.25°	1700	1878	2071	2245	2401	2497	2530	2497	2401	2245	2071
10°	2008	2281	2568	2857	3092	3238	3287	3238	3092	2857	2568
8.75°	2409	2815	3244	3680	4016	4244	4325	4244	4016	3680	3244
7.5°	2909	3488	4090	4665	5112	5414	5517	5414	5112	4665	4090
6.25°	3488	4251	5017	5733	6283	6631	6751	6631	6283	5733	5017
5°	4090	5017	5952	6754	7378	7783	7926	7783	7378	6754	5952
3.75°	4665	5733	6754	7646	8340	8795	8932	8795	8340	7646	6754
2.5°	5112	6283	7378	8340	9077	9542	9691	9542	9077	8340	7378
1.25°	5414	6631	7783	8795	9542	10015	10176	10015	9542	8795	7783
0°	5517	6751	7926	8932	9691	10176	10386	10176	9691	8932	7926
-1.25°	5414	6631	7783	8795	9542	10015	10176	10015	9542	8795	7783
-2.5°	5112	6283	7378	8340	9077	9542	9691	9542	9077	8340	7378
-3.75°	4665	5733	6754	7646	8340	8795	8932	8795	8340	7646	6754
-5°	4090	5017	5952	6754	7378	7783	7926	7783	7378	6754	5952
-6.25°	3488	4251	5017	5733	6283	6631	6751	6631	6283	5733	5017
-7.5°	2909	3488	4090	4665	5112	5414	5517	5414	5112	4665	4090
-8.75°	2409	2815	3244	3680	4016	4244	4325	4244	4016	3680	3244
-10°	2008	2281	2568	2857	3092	3238	3287	3238	3092	2857	2568
-11.25°	1700	1878	2071	2245	2401	2497	2530	2497	2401	2245	2071
-12.5°	1456	1583	1712	1815	1915	1979	2000	1979	1915	1815	1712
-13.75°	1254	1347	1442	1520	1579	1621	1635	1621	1579	1520	1442
-15°	1110	1166	1226	1284	1326	1352	1361	1352	1326	1284	1226
-16.25°	1007	1047	1082	1117	1142	1158	1163	1158	1142	1117	1082
-17.5°	920	953	981	1004	1022	1033	1037	1033	1022	1004	981
-18.75°	853	877	897	913	926	935	938	935	926	913	897
-20°	783	812	829	843	853	859	861	859	853	843	829
-21.25°	673	714	742	762	776	784	787	784	776	762	742



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	533	576	613	638	656	667	671	667	656	638	613
-23.75°	384	425	459	486	505	517	521	517	505	486	459
-25°	250	284	312	335	351	361	364	361	351	335	312
-26.25°	136	158	183	203	216	225	228	225	216	203	183
-27.5°	73	80	90	102	111	116	118	116	111	102	90
-28.75°	51	53	55	57	61	63	64	63	61	57	55
-30°	41	43	45	46	46	47	47	47	46	46	45
-31.25°	33	35	36	37	38	39	39	39	38	37	36
-32.5°	26	27	28	29	30	30	30	30	30	29	28
-33.75°	20	21	22	23	23	23	24	23	23	23	22
-35°	16	16	16	17	17	17	17	17	17	17	16
-36.25°	14	14	14	15	15	15	15	15	15	15	14
-37.5°	12	13	13	13	13	13	13	13	13	13	13
-38.75°	12	12	12	12	12	12	12	12	12	12	12
-40°	11	11	11	11	11	11	11	11	11	11	11
-41.25°	10	10	10	10	10	10	10	10	10	10	10
-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°	6	6	6	6	6	6	6	6	6	6	6
-53.75°	6	6	6	6	6	6	6	6	6	6	6
-55°	5	6	6	6	6	6	6	6	6	6	6
-56.25°	5	5	5	5	5	5	5	5	5	5	5
-57.5°	5	5	5	5	5	5	5	5	5	5	5
-58.75°	4	4	4	4	4	4	4	4	4	4	4
-60°	4	4	4	4	4	4	4	4	4	4	4
-61.25°	4	4	4	4	4	4	4	4	4	4	4
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-63.75°	3	3	3	3	3	3	3	3	3	3	3
-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	3	3	3	3	3	3	2	2	2	2
62.5°	3	3	3	3	3	3	3	3	3	3	3
61.25°	4	4	3	3	3	3	3	3	3	3	3
60°	4	4	4	4	4	4	4	4	4	4	3
58.75°	4	4	4	4	4	4	4	4	4	4	4
57.5°	5	5	5	5	5	5	4	4	4	4	4
56.25°	5	5	5	5	5	5	5	5	5	5	5
55°	6	5	5	5	5	5	5	5	5	5	5
53.75°	6	6	6	6	6	6	6	6	5	5	5
52.5°	6	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	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°	10	10	10	10	10	9	9	9	9	9	8
40°	11	11	11	11	10	10	10	10	10	9	9
38.75°	12	12	11	11	11	11	11	10	10	10	10
37.5°	13	12	12	12	12	12	11	11	11	11	10
36.25°	14	14	13	13	13	12	12	12	12	11	11
35°	16	16	15	15	14	14	13	13	12	12	12



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	21	20	18	17	16	16	15	14	14	13	12
32.5°	27	26	25	23	21	19	17	16	15	14	14
31.25°	35	33	31	29	27	25	23	20	18	16	15
30°	43	41	39	37	35	32	29	26	24	20	17
28.75°	53	51	48	45	42	39	36	33	29	26	23
27.5°	80	73	64	55	51	47	44	40	36	32	28
26.25°	158	136	113	87	73	60	53	47	43	39	35
25°	284	250	213	171	134	100	76	59	52	46	41
23.75°	425	384	339	291	239	185	135	94	70	55	48
22.5°	576	533	482	425	361	300	235	169	118	78	57
21.25°	714	673	626	567	499	426	349	274	200	134	83
20°	812	783	746	696	634	559	475	387	302	219	142
18.75°	877	853	828	794	746	681	602	509	412	316	225
17.5°	953	920	890	857	823	776	713	627	526	420	316
16.25°	1047	1007	964	919	880	840	794	728	635	526	412
15°	1166	1110	1053	997	944	894	848	800	728	627	509
13.75°	1347	1254	1163	1086	1020	957	899	848	794	713	602
12.5°	1583	1456	1324	1198	1107	1028	957	894	840	776	681
11.25°	1878	1700	1526	1359	1215	1107	1020	944	880	823	746
10°	2281	2008	1760	1549	1359	1198	1086	997	919	857	794
8.75°	2815	2409	2053	1760	1526	1324	1163	1053	964	890	828
7.5°	3488	2909	2409	2008	1700	1456	1254	1110	1007	920	853
6.25°	4251	3488	2815	2281	1878	1583	1347	1166	1047	953	877
5°	5017	4090	3244	2568	2071	1712	1442	1226	1082	981	897
3.75°	5733	4665	3680	2857	2245	1815	1520	1284	1117	1004	913
2.5°	6283	5112	4016	3092	2401	1915	1579	1326	1142	1022	926
1.25°	6631	5414	4244	3238	2497	1979	1621	1352	1158	1033	935
0°	6751	5517	4325	3287	2530	2000	1635	1361	1163	1037	938
-1.25°	6631	5414	4244	3238	2497	1979	1621	1352	1158	1033	935
-2.5°	6283	5112	4016	3092	2401	1915	1579	1326	1142	1022	926
-3.75°	5733	4665	3680	2857	2245	1815	1520	1284	1117	1004	913
-5°	5017	4090	3244	2568	2071	1712	1442	1226	1082	981	897
-6.25°	4251	3488	2815	2281	1878	1583	1347	1166	1047	953	877
-7.5°	3488	2909	2409	2008	1700	1456	1254	1110	1007	920	853
-8.75°	2815	2409	2053	1760	1526	1324	1163	1053	964	890	828
-10°	2281	2008	1760	1549	1359	1198	1086	997	919	857	794
-11.25°	1878	1700	1526	1359	1215	1107	1020	944	880	823	746
-12.5°	1583	1456	1324	1198	1107	1028	957	894	840	776	681
-13.75°	1347	1254	1163	1086	1020	957	899	848	794	713	602
-15°	1166	1110	1053	997	944	894	848	800	728	627	509
-16.25°	1047	1007	964	919	880	840	794	728	635	526	412
-17.5°	953	920	890	857	823	776	713	627	526	420	316
-18.75°	877	853	828	794	746	681	602	509	412	316	225
-20°	812	783	746	696	634	559	475	387	302	219	142
-21.25°	714	673	626	567	499	426	349	274	200	134	83



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	576	533	482	425	361	300	235	169	118	78	57
-23.75°	425	384	339	291	239	185	135	94	70	55	48
-25°	284	250	213	171	134	100	76	59	52	46	41
-26.25°	158	136	113	87	73	60	53	47	43	39	35
-27.5°	80	73	64	55	51	47	44	40	36	32	28
-28.75°	53	51	48	45	42	39	36	33	29	26	23
-30°	43	41	39	37	35	32	29	26	24	20	17
-31.25°	35	33	31	29	27	25	23	20	18	16	15
-32.5°	27	26	25	23	21	19	17	16	15	14	14
-33.75°	21	20	18	17	16	16	15	14	14	13	12
-35°	16	16	15	15	14	14	13	13	12	12	12
-36.25°	14	14	13	13	13	12	12	12	12	11	11
-37.5°	13	12	12	12	12	12	11	11	11	11	10
-38.75°	12	12	11	11	11	11	11	10	10	10	10
-40°	11	11	11	11	10	10	10	10	10	9	9
-41.25°	10	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	6	6	6
-52.5°	6	6	6	6	6	6	6	6	6	6	6
-53.75°	6	6	6	6	6	6	6	6	5	5	5
-55°	6	5	5	5	5	5	5	5	5	5	5
-56.25°	5	5	5	5	5	5	5	5	5	5	5
-57.5°	5	5	5	5	5	5	4	4	4	4	4
-58.75°	4	4	4	4	4	4	4	4	4	4	4
-60°	4	4	4	4	4	4	4	4	4	4	3
-61.25°	4	4	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-63.75°	3	3	3	3	3	3	3	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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	3	2	2	2	2	2	2	2	2	2
61.25°	3	3	3	3	3	3	2	2	2	2	2
60°	3	3	3	3	3	3	3	3	3	2	2
58.75°	4	4	4	3	3	3	3	3	3	3	3
57.5°	4	4	4	4	4	4	4	3	3	3	3
56.25°	4	4	4	4	4	4	4	4	4	3	3
55°	5	5	5	5	4	4	4	4	4	4	4
53.75°	5	5	5	5	5	5	5	4	4	4	4
52.5°	6	5	5	5	5	5	5	5	5	4	4
51.25°	6	6	6	6	5	5	5	5	5	5	5
50°	6	6	6	6	6	6	6	5	5	5	5
48.75°	6	6	6	6	6	6	6	6	6	5	5
47.5°	6	6	6	6	6	6	6	6	6	6	6
46.25°	7	6	6	6	6	6	6	6	6	6	6
45°	7	7	7	7	6	6	6	6	6	6	6
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°	11	10	10	10	9	9	8	8	8	8	7
35°	11	11	11	10	10	9	9	9	8	8	8



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	12	12	11	11	10	10	10	9	9	8	8
32.5°	13	12	12	12	11	11	10	10	9	9	8
31.25°	14	13	13	12	12	11	11	10	10	9	9
30°	16	15	14	13	12	12	11	11	10	10	9
28.75°	19	16	15	14	13	12	12	11	11	10	10
27.5°	25	21	17	16	14	13	12	12	11	11	10
26.25°	30	26	22	18	16	14	13	12	12	11	11
25°	36	31	27	22	18	16	14	13	12	12	11
23.75°	43	37	32	27	22	18	16	14	13	12	12
22.5°	49	43	38	32	27	22	17	15	14	13	12
21.25°	61	50	43	37	31	26	21	16	15	13	12
20°	85	61	49	43	36	30	25	19	16	14	13
18.75°	142	83	57	48	41	35	28	23	17	15	14
17.5°	219	134	78	55	46	39	32	26	20	16	14
16.25°	302	200	118	70	52	43	36	29	24	18	15
15°	387	274	169	94	59	47	40	33	26	20	16
13.75°	475	349	235	135	76	53	44	36	29	23	17
12.5°	559	426	300	185	100	60	47	39	32	25	19
11.25°	634	499	361	239	134	73	51	42	35	27	21
10°	696	567	425	291	171	87	55	45	37	29	23
8.75°	746	626	482	339	213	113	64	48	39	31	25
7.5°	783	673	533	384	250	136	73	51	41	33	26
6.25°	812	714	576	425	284	158	80	53	43	35	27
5°	829	742	613	459	312	183	90	55	45	36	28
3.75°	843	762	638	486	335	203	102	57	46	37	29
2.5°	853	776	656	505	351	216	111	61	46	38	30
1.25°	859	784	667	517	361	225	116	63	47	39	30
0°	861	787	671	521	364	228	118	64	47	39	30
-1.25°	859	784	667	517	361	225	116	63	47	39	30
-2.5°	853	776	656	505	351	216	111	61	46	38	30
-3.75°	843	762	638	486	335	203	102	57	46	37	29
-5°	829	742	613	459	312	183	90	55	45	36	28
-6.25°	812	714	576	425	284	158	80	53	43	35	27
-7.5°	783	673	533	384	250	136	73	51	41	33	26
-8.75°	746	626	482	339	213	113	64	48	39	31	25
-10°	696	567	425	291	171	87	55	45	37	29	23
-11.25°	634	499	361	239	134	73	51	42	35	27	21
-12.5°	559	426	300	185	100	60	47	39	32	25	19
-13.75°	475	349	235	135	76	53	44	36	29	23	17
-15°	387	274	169	94	59	47	40	33	26	20	16
-16.25°	302	200	118	70	52	43	36	29	24	18	15
-17.5°	219	134	78	55	46	39	32	26	20	16	14
-18.75°	142	83	57	48	41	35	28	23	17	15	14
-20°	85	61	49	43	36	30	25	19	16	14	13
-21.25°	61	50	43	37	31	26	21	16	15	13	12



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	49	43	38	32	27	22	17	15	14	13	12
-23.75°	43	37	32	27	22	18	16	14	13	12	12
-25°	36	31	27	22	18	16	14	13	12	12	11
-26.25°	30	26	22	18	16	14	13	12	12	11	11
-27.5°	25	21	17	16	14	13	12	12	11	11	10
-28.75°	19	16	15	14	13	12	12	11	11	10	10
-30°	16	15	14	13	12	12	11	11	10	10	9
-31.25°	14	13	13	12	12	11	11	10	10	9	9
-32.5°	13	12	12	12	11	11	10	10	9	9	8
-33.75°	12	12	11	11	10	10	10	9	9	8	8
-35°	11	11	11	10	10	9	9	9	8	8	8
-36.25°	11	10	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	6
-46.25°	7	6	6	6	6	6	6	6	6	6	6
-47.5°	6	6	6	6	6	6	6	6	6	6	6
-48.75°	6	6	6	6	6	6	6	6	6	5	5
-50°	6	6	6	6	6	6	6	5	5	5	5
-51.25°	6	6	6	6	5	5	5	5	5	5	5
-52.5°	6	5	5	5	5	5	5	5	5	4	4
-53.75°	5	5	5	5	5	5	5	4	4	4	4
-55°	5	5	5	5	4	4	4	4	4	4	4
-56.25°	4	4	4	4	4	4	4	4	4	3	3
-57.5°	4	4	4	4	4	4	4	3	3	3	3
-58.75°	4	4	4	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	2	2
-61.25°	3	3	3	3	3	3	2	2	2	2	2
-62.5°	3	3	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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	2	2	2	2	2	2	2	1	1	1
57.5°	3	3	3	2	2	2	2	2	2	2	1
56.25°	3	3	3	3	3	2	2	2	2	2	2
55°	4	3	3	3	3	3	3	2	2	2	2
53.75°	4	4	4	3	3	3	3	3	2	2	2
52.5°	4	4	4	4	3	3	3	3	3	3	2
51.25°	4	4	4	4	4	4	3	3	3	3	3
50°	5	5	4	4	4	4	4	3	3	3	3
48.75°	5	5	5	4	4	4	4	4	4	3	3
47.5°	5	5	5	5	5	4	4	4	4	4	3
46.25°	6	5	5	5	5	5	4	4	4	4	4
45°	6	6	6	5	5	5	5	4	4	4	4
43.75°	6	6	6	6	5	5	5	5	4	4	4
42.5°	6	6	6	6	6	5	5	5	5	4	4
41.25°	6	6	6	6	6	6	5	5	5	5	4
40°	6	6	6	6	6	6	6	5	5	5	5
38.75°	7	6	6	6	6	6	6	6	5	5	5
37.5°	7	7	6	6	6	6	6	6	6	5	5
36.25°	7	7	7	6	6	6	6	6	6	6	5
35°	7	7	7	7	6	6	6	6	6	6	5



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	6	6	6
32.5°	8	8	7	7	7	6	6	6	6	6	6
31.25°	8	8	8	7	7	7	6	6	6	6	6
30°	9	8	8	7	7	7	7	6	6	6	6
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°	10	9	9	8	8	7	7	7	7	6	6
25°	10	10	9	9	8	8	7	7	7	6	6
23.75°	11	10	10	9	8	8	8	7	7	7	6
22.5°	11	11	10	9	9	8	8	7	7	7	6
21.25°	12	11	10	10	9	8	8	7	7	7	6
20°	12	11	11	10	9	9	8	8	7	7	7
18.75°	12	12	11	10	10	9	8	8	7	7	7
17.5°	13	12	11	11	10	9	9	8	8	7	7
16.25°	14	12	12	11	10	10	9	8	8	7	7
15°	14	13	12	11	10	10	9	8	8	7	7
13.75°	15	13	12	11	11	10	9	8	8	7	7
12.5°	16	14	12	12	11	10	9	9	8	8	7
11.25°	16	14	13	12	11	10	10	9	8	8	7
10°	17	15	13	12	11	11	10	9	8	8	7
8.75°	18	15	13	12	11	11	10	9	8	8	7
7.5°	20	16	14	12	12	11	10	9	8	8	7
6.25°	21	16	14	13	12	11	10	9	9	8	7
5°	22	16	14	13	12	11	10	9	9	8	8
3.75°	23	17	15	13	12	11	10	10	9	8	8
2.5°	23	17	15	13	12	11	10	10	9	8	8
1.25°	23	17	15	13	12	11	10	10	9	8	8
0°	24	17	15	13	12	11	10	10	9	8	8
-1.25°	23	17	15	13	12	11	10	10	9	8	8
-2.5°	23	17	15	13	12	11	10	10	9	8	8
-3.75°	23	17	15	13	12	11	10	10	9	8	8
-5°	22	16	14	13	12	11	10	9	9	8	8
-6.25°	21	16	14	13	12	11	10	9	9	8	7
-7.5°	20	16	14	12	12	11	10	9	8	8	7
-8.75°	18	15	13	12	11	11	10	9	8	8	7
-10°	17	15	13	12	11	11	10	9	8	8	7
-11.25°	16	14	13	12	11	10	10	9	8	8	7
-12.5°	16	14	12	12	11	10	9	9	8	8	7
-13.75°	15	13	12	11	11	10	9	8	8	7	7
-15°	14	13	12	11	10	10	9	8	8	7	7
-16.25°	14	12	12	11	10	10	9	8	8	7	7
-17.5°	13	12	11	11	10	9	9	8	8	7	7
-18.75°	12	12	11	10	10	9	8	8	7	7	7
-20°	12	11	11	10	9	9	8	8	7	7	7
-21.25°	12	11	10	10	9	8	8	7	7	7	6



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	11	11	10	9	9	8	8	7	7	7	6
-23.75°	11	10	10	9	8	8	8	7	7	7	6
-25°	10	10	9	9	8	8	7	7	7	6	6
-26.25°	10	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	6
-31.25°	8	8	8	7	7	7	6	6	6	6	6
-32.5°	8	8	7	7	7	6	6	6	6	6	6
-33.75°	8	7	7	7	7	6	6	6	6	6	6
-35°	7	7	7	7	6	6	6	6	6	6	5
-36.25°	7	7	7	6	6	6	6	6	6	6	5
-37.5°	7	7	6	6	6	6	6	6	6	5	5
-38.75°	7	6	6	6	6	6	6	6	5	5	5
-40°	6	6	6	6	6	6	6	5	5	5	5
-41.25°	6	6	6	6	6	6	5	5	5	5	4
-42.5°	6	6	6	6	6	5	5	5	5	4	4
-43.75°	6	6	6	6	5	5	5	5	4	4	4
-45°	6	6	6	5	5	5	5	4	4	4	4
-46.25°	6	5	5	5	5	5	4	4	4	4	4
-47.5°	5	5	5	5	5	4	4	4	4	4	3
-48.75°	5	5	5	4	4	4	4	4	4	3	3
-50°	5	5	4	4	4	4	4	3	3	3	3
-51.25°	4	4	4	4	4	4	3	3	3	3	3
-52.5°	4	4	4	4	3	3	3	3	3	3	2
-53.75°	4	4	4	3	3	3	3	3	2	2	2
-55°	4	3	3	3	3	3	3	2	2	2	2
-56.25°	3	3	3	3	3	2	2	2	2	2	2
-57.5°	3	3	3	2	2	2	2	2	2	2	1
-58.75°	3	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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	2	2	2	2	2	1	1	1	1	1
48.75°	3	3	2	2	2	2	2	1	1	1	1
47.5°	3	3	3	2	2	2	2	1	1	1	1
46.25°	3	3	3	3	2	2	2	2	1	1	1
45°	4	3	3	3	3	2	2	2	2	1	1
43.75°	4	4	3	3	3	2	2	2	2	1	1
42.5°	4	4	3	3	3	3	2	2	2	2	1
41.25°	4	4	4	3	3	3	3	2	2	2	1
40°	4	4	4	4	3	3	3	2	2	2	2
38.75°	5	4	4	4	3	3	3	3	2	2	2
37.5°	5	4	4	4	4	3	3	3	2	2	2
36.25°	5	5	4	4	4	4	3	3	3	2	2
35°	5	5	5	4	4	4	3	3	3	2	2



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	5	5	4	4	4	4	3	3	3	2
32.5°	6	5	5	5	4	4	4	3	3	3	2
31.25°	6	5	5	5	4	4	4	3	3	3	2
30°	6	6	5	5	5	4	4	4	3	3	3
28.75°	6	6	5	5	5	4	4	4	3	3	3
27.5°	6	6	6	5	5	5	4	4	4	3	3
26.25°	6	6	6	5	5	5	4	4	4	3	3
25°	6	6	6	5	5	5	4	4	4	3	3
23.75°	6	6	6	6	5	5	5	4	4	3	3
22.5°	6	6	6	6	5	5	5	4	4	4	3
21.25°	6	6	6	6	5	5	5	4	4	4	3
20°	6	6	6	6	6	5	5	4	4	4	3
18.75°	6	6	6	6	6	5	5	5	4	4	3
17.5°	6	6	6	6	6	5	5	5	4	4	4
16.25°	7	6	6	6	6	5	5	5	4	4	4
15°	7	6	6	6	6	6	5	5	4	4	4
13.75°	7	6	6	6	6	6	5	5	4	4	4
12.5°	7	6	6	6	6	6	5	5	5	4	4
11.25°	7	6	6	6	6	6	5	5	5	4	4
10°	7	7	6	6	6	6	5	5	5	4	4
8.75°	7	7	6	6	6	6	5	5	5	4	4
7.5°	7	7	6	6	6	6	5	5	5	4	4
6.25°	7	7	6	6	6	6	6	5	5	4	4
5°	7	7	6	6	6	6	6	5	5	4	4
3.75°	7	7	6	6	6	6	6	5	5	4	4
2.5°	7	7	6	6	6	6	6	5	5	4	4
1.25°	7	7	6	6	6	6	6	5	5	4	4
0°	7	7	6	6	6	6	6	5	5	4	4
-1.25°	7	7	6	6	6	6	6	5	5	4	4
-2.5°	7	7	6	6	6	6	6	5	5	4	4
-3.75°	7	7	6	6	6	6	6	5	5	4	4
-5°	7	7	6	6	6	6	6	5	5	4	4
-6.25°	7	7	6	6	6	6	6	5	5	4	4
-7.5°	7	7	6	6	6	6	5	5	5	4	4
-8.75°	7	7	6	6	6	6	5	5	5	4	4
-10°	7	7	6	6	6	6	5	5	5	4	4
-11.25°	7	6	6	6	6	6	5	5	5	4	4
-12.5°	7	6	6	6	6	6	5	5	5	4	4
-13.75°	7	6	6	6	6	6	5	5	4	4	4
-15°	7	6	6	6	6	6	5	5	4	4	4
-16.25°	7	6	6	6	6	5	5	5	4	4	4
-17.5°	6	6	6	6	6	5	5	5	4	4	4
-18.75°	6	6	6	6	6	5	5	5	4	4	3
-20°	6	6	6	6	6	5	5	4	4	4	3
-21.25°	6	6	6	6	5	5	5	4	4	4	3



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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	6	6	5	5	5	4	4	4	3
-23.75°	6	6	6	6	5	5	5	4	4	3	3
-25°	6	6	6	5	5	5	4	4	4	3	3
-26.25°	6	6	6	5	5	5	4	4	4	3	3
-27.5°	6	6	6	5	5	5	4	4	4	3	3
-28.75°	6	6	5	5	5	4	4	4	3	3	3
-30°	6	6	5	5	5	4	4	4	3	3	3
-31.25°	6	5	5	5	4	4	4	3	3	3	2
-32.5°	6	5	5	5	4	4	4	3	3	3	2
-33.75°	5	5	5	4	4	4	4	3	3	3	2
-35°	5	5	5	4	4	4	3	3	3	2	2
-36.25°	5	5	4	4	4	4	3	3	3	2	2
-37.5°	5	4	4	4	4	3	3	3	2	2	2
-38.75°	5	4	4	4	3	3	3	3	2	2	2
-40°	4	4	4	4	3	3	3	2	2	2	2
-41.25°	4	4	4	3	3	3	3	2	2	2	1
-42.5°	4	4	3	3	3	3	2	2	2	2	1
-43.75°	4	4	3	3	3	2	2	2	2	1	1
-45°	4	3	3	3	3	2	2	2	2	1	1
-46.25°	3	3	3	3	2	2	2	2	1	1	1
-47.5°	3	3	3	2	2	2	2	1	1	1	1
-48.75°	3	3	2	2	2	2	2	1	1	1	1
-50°	3	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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	2	2	2	1	1	1	1	1	0	0
25°	3	2	2	2	1	1	1	1	1	0	0
23.75°	3	2	2	2	1	1	1	1	1	0	0
22.5°	3	2	2	2	1	1	1	1	1	0	0
21.25°	3	3	2	2	1	1	1	1	1	0	0
20°	3	3	2	2	2	1	1	1	1	0	0
18.75°	3	3	2	2	2	1	1	1	1	0	0
17.5°	3	3	2	2	2	1	1	1	1	1	0
16.25°	3	3	2	2	2	1	1	1	1	1	0
15°	3	3	2	2	2	1	1	1	1	1	0
13.75°	3	3	3	2	2	1	1	1	1	1	0
12.5°	3	3	3	2	2	1	1	1	1	1	0
11.25°	3	3	3	2	2	1	1	1	1	1	0
10°	3	3	3	2	2	1	1	1	1	1	0
8.75°	3	3	3	2	2	2	1	1	1	1	0
7.5°	4	3	3	2	2	2	1	1	1	1	0
6.25°	4	3	3	2	2	2	1	1	1	1	0
5°	4	3	3	2	2	2	1	1	1	1	0
3.75°	4	3	3	2	2	2	1	1	1	1	0
2.5°	4	3	3	2	2	2	1	1	1	1	0
1.25°	4	3	3	2	2	2	1	1	1	1	0
0°	4	3	3	2	2	2	1	1	1	1	0
-1.25°	4	3	3	2	2	2	1	1	1	1	0
-2.5°	4	3	3	2	2	2	1	1	1	1	0
-3.75°	4	3	3	2	2	2	1	1	1	1	0
-5°	4	3	3	2	2	2	1	1	1	1	0
-6.25°	4	3	3	2	2	2	1	1	1	1	0
-7.5°	4	3	3	2	2	2	1	1	1	1	0
-8.75°	3	3	3	2	2	2	1	1	1	1	0
-10°	3	3	3	2	2	1	1	1	1	1	0
-11.25°	3	3	3	2	2	1	1	1	1	1	0
-12.5°	3	3	3	2	2	1	1	1	1	1	0
-13.75°	3	3	3	2	2	1	1	1	1	1	0
-15°	3	3	2	2	2	1	1	1	1	1	0
-16.25°	3	3	2	2	2	1	1	1	1	1	0
-17.5°	3	3	2	2	2	1	1	1	1	1	0
-18.75°	3	3	2	2	2	1	1	1	1	0	0
-20°	3	3	2	2	2	1	1	1	1	0	0
-21.25°	3	3	2	2	1	1	1	1	1	0	0



REPORT NUMBER: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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°	3	2	2	2	1	1	1	1	1	0	0
-23.75°	3	2	2	2	1	1	1	1	1	0	0
-25°	3	2	2	2	1	1	1	1	1	0	0
-26.25°	3	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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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: P220511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1003-[A1, S1, SU1]-[RW, RI]-LED3090-S-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)