

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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	346.3 lumens	Max Intensity:	4580.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	34.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14°H x 14°V	Field Angle (10%):	24.9°H x 24.9°V
Beam Lumens:	142.7 lumens	Field Lumens:	266 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%

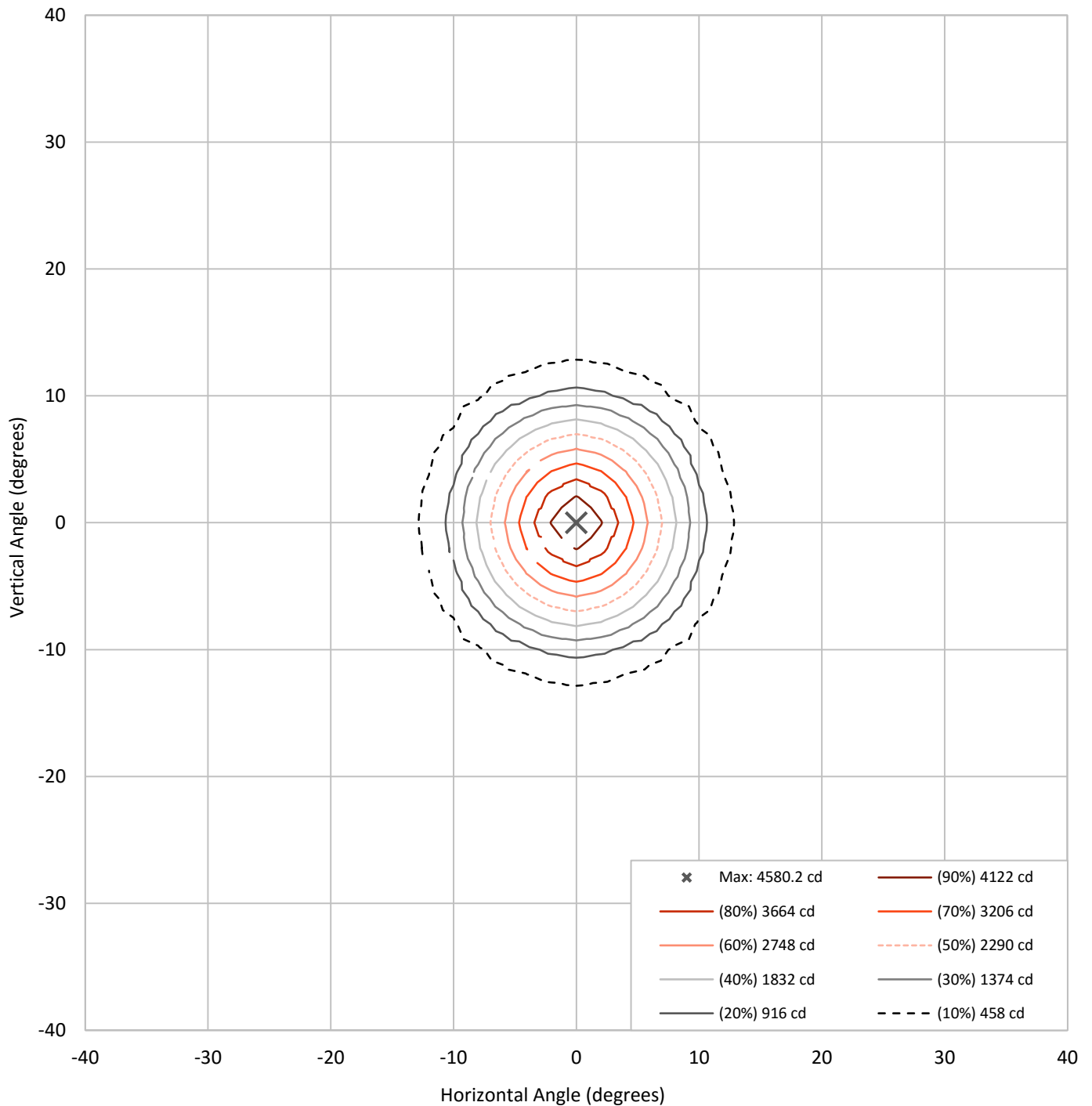
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

### Iso-Candela Plot





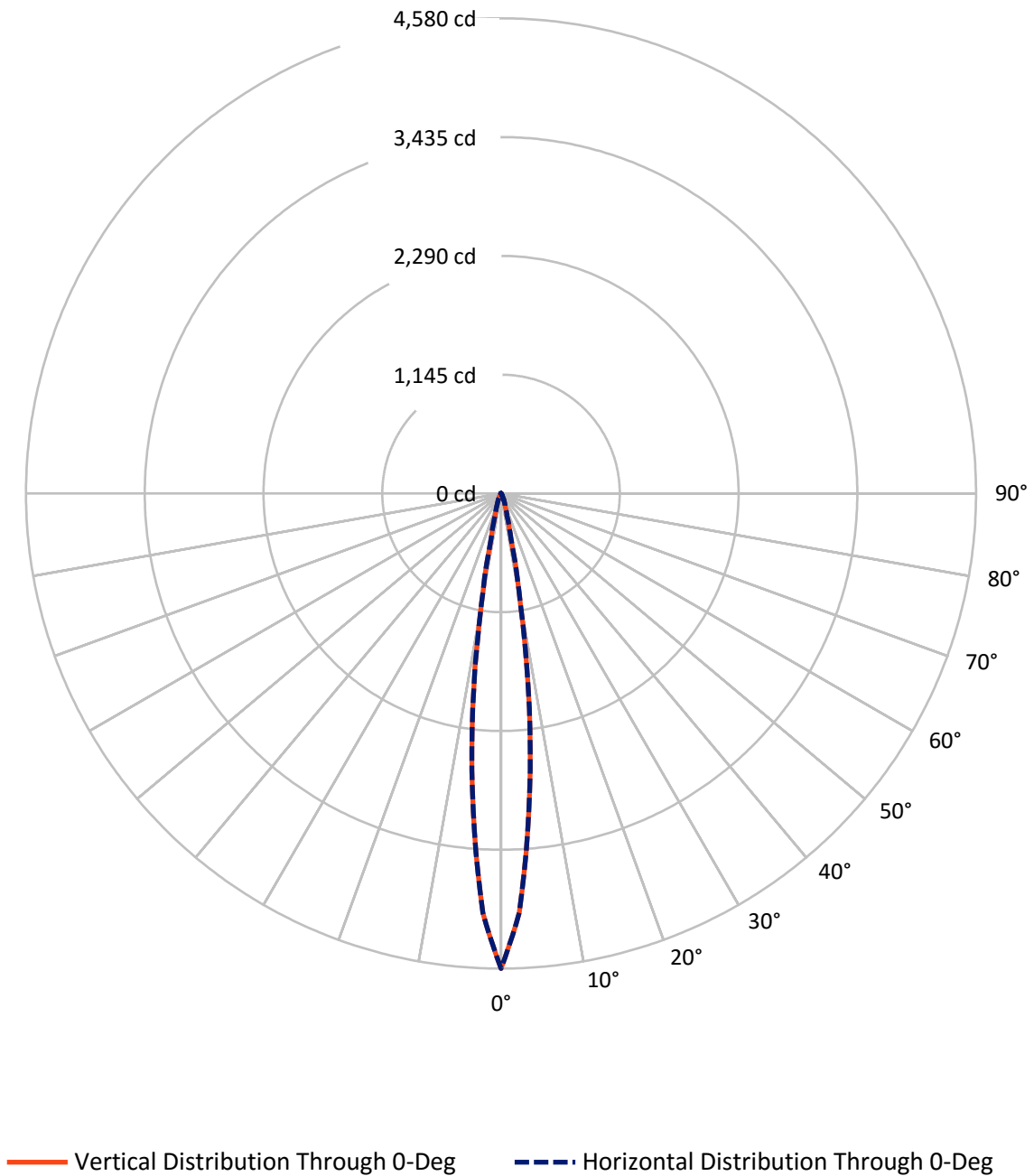
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

### 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	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	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	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		
50	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.4	1.4	0.7	0.2	0.1	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	0.7	2.8	7.9	7.9	2.8	0.7	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.2	1.3	7.7	61.5	61.5	7.7	1.3	0.2	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.2	1.3	7.7	61.5	61.5	7.7	1.3	0.2	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	0.7	2.8	7.9	7.9	2.8	0.7	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.1	0.2	0.7	1.4	1.4	0.7	0.2	0.1	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0		
-50	0.0	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	0.0	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	0.0	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	0.0	

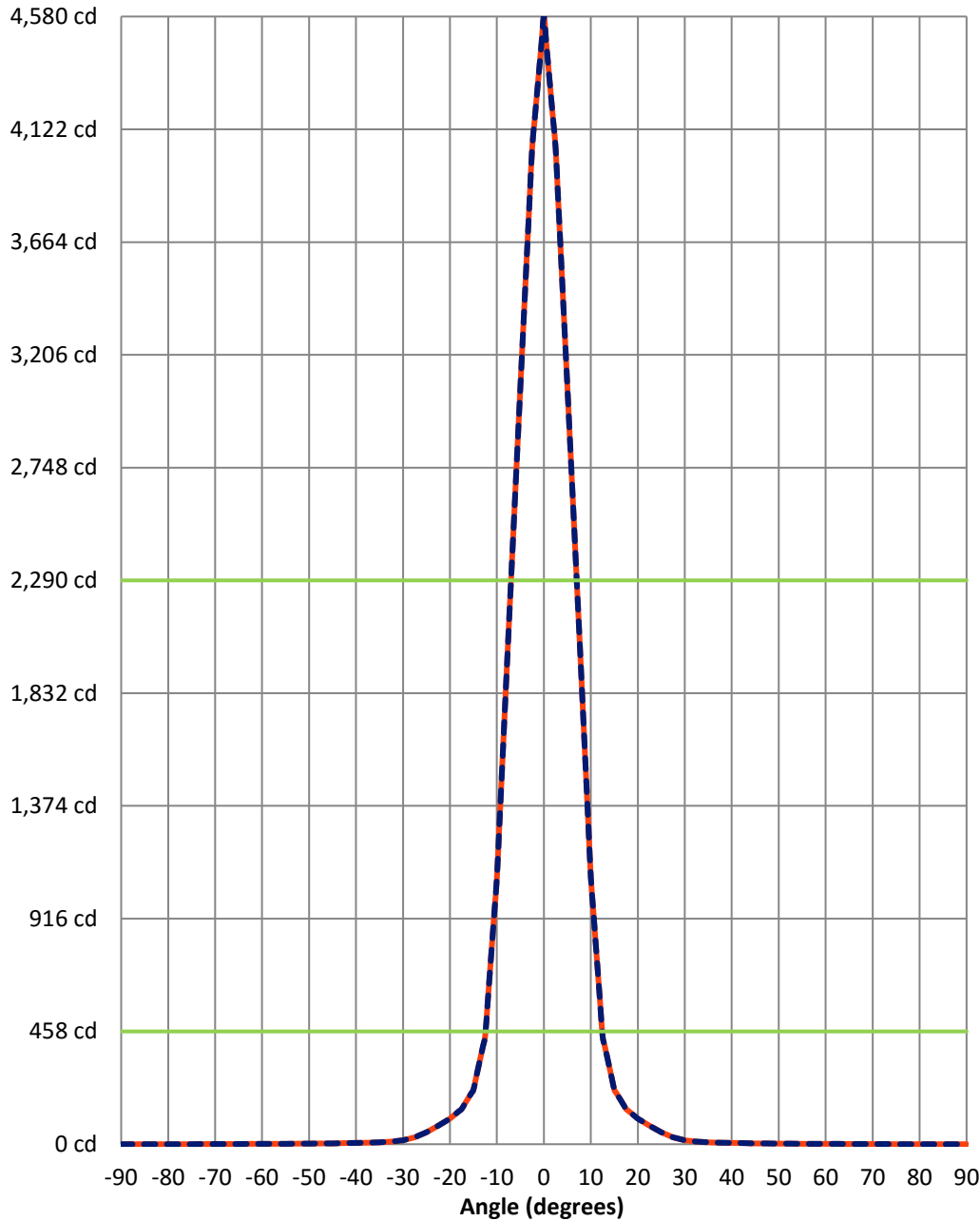
REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 14°  
 V Angle: 14°  
 Lumens: 142.7  
 Efficiency: 41.2%

**Field:**  
 H Angle: 24.9°  
 V Angle: 24.9°  
 Lumens: 266  
 Efficiency: 76.8%

**Spill:**  
 Lumens: 80.3  
 Efficiency: 23.2%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
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
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	0	1
40°	0	0	0	0	0	0	0	0	0	1	1
37.5°	0	0	0	0	0	0	0	0	0	1	1
35°	0	0	0	0	0	0	0	0	0	1	1
32.5°	0	0	0	0	0	0	0	0	1	1	1
30°	0	0	0	0	0	0	0	0	1	1	1
27.5°	0	0	0	0	0	0	0	0	1	1	1
25°	0	0	0	0	0	0	0	0	1	1	1
22.5°	0	0	0	0	0	0	0	0	1	1	1
20°	0	0	0	0	0	0	0	0	1	1	1
17.5°	0	0	0	0	0	0	0	1	1	1	1
15°	0	0	0	0	0	0	0	1	1	1	1
12.5°	0	0	0	0	0	0	0	1	1	1	1
10°	0	0	0	0	0	0	0	1	1	1	1
7.5°	0	0	0	0	0	0	0	1	1	1	1
5°	0	0	0	0	0	0	0	1	1	1	1
2.5°	0	0	0	0	0	0	0	1	1	1	1
0°	0	0	0	0	0	0	0	1	1	1	1
-2.5°	0	0	0	0	0	0	0	1	1	1	1
-5°	0	0	0	0	0	0	0	1	1	1	1
-7.5°	0	0	0	0	0	0	0	1	1	1	1
-10°	0	0	0	0	0	0	0	1	1	1	1
-12.5°	0	0	0	0	0	0	0	1	1	1	1
-15°	0	0	0	0	0	0	0	1	1	1	1
-17.5°	0	0	0	0	0	0	0	1	1	1	1
-20°	0	0	0	0	0	0	0	0	1	1	1



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	0	0	0	0	0	0	0	1	1	1
-25°	0	0	0	0	0	0	0	0	1	1	1
-27.5°	0	0	0	0	0	0	0	0	1	1	1
-30°	0	0	0	0	0	0	0	0	1	1	1
-32.5°	0	0	0	0	0	0	0	0	1	1	1
-35°	0	0	0	0	0	0	0	0	0	1	1
-37.5°	0	0	0	0	0	0	0	0	0	1	1
-40°	0	0	0	0	0	0	0	0	0	1	1
-42.5°	0	0	0	0	0	0	0	0	0	0	1
-45°	0	0	0	0	0	0	0	0	0	0	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-50°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
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
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	1	1
65°	0	0	0	0	0	0	1	1	1	1	1
62.5°	0	0	0	0	0	1	1	1	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	1	1	1	1	1	1	1	1	1
55°	0	1	1	1	1	1	1	1	1	1	1
52.5°	0	1	1	1	1	1	1	1	1	2	2
50°	1	1	1	1	1	1	1	1	2	2	2
47.5°	1	1	1	1	1	1	1	2	2	2	2
45°	1	1	1	1	1	1	2	2	2	2	2
42.5°	1	1	1	1	1	2	2	2	2	2	2
40°	1	1	1	1	2	2	2	2	2	2	2
37.5°	1	1	1	1	2	2	2	2	2	2	2
35°	1	1	1	2	2	2	2	2	2	2	2
32.5°	1	1	1	2	2	2	2	2	2	2	3
30°	1	1	2	2	2	2	2	2	2	3	3
27.5°	1	1	2	2	2	2	2	2	3	3	3
25°	1	1	2	2	2	2	2	2	3	3	4
22.5°	1	2	2	2	2	2	2	3	3	3	4
20°	1	2	2	2	2	2	2	3	3	4	5
17.5°	1	2	2	2	2	2	2	3	3	4	5
15°	1	2	2	2	2	2	3	3	3	5	5
12.5°	1	2	2	2	2	2	3	3	4	5	6
10°	1	2	2	2	2	2	3	3	4	5	6
7.5°	1	2	2	2	2	2	3	3	4	5	6
5°	1	2	2	2	2	2	3	3	4	5	6
2.5°	1	2	2	2	2	2	3	3	4	5	6
0°	2	2	2	2	2	2	3	3	5	5	6
-2.5°	1	2	2	2	2	2	3	3	4	5	6
-5°	1	2	2	2	2	2	3	3	4	5	6
-7.5°	1	2	2	2	2	2	3	3	4	5	6
-10°	1	2	2	2	2	2	3	3	4	5	6
-12.5°	1	2	2	2	2	2	3	3	4	5	6
-15°	1	2	2	2	2	2	3	3	3	5	5
-17.5°	1	2	2	2	2	2	2	3	3	4	5
-20°	1	2	2	2	2	2	2	3	3	4	5



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1	2	2	2	2	2	2	3	3	3	4
-25°	1	1	2	2	2	2	2	2	3	3	4
-27.5°	1	1	2	2	2	2	2	2	3	3	3
-30°	1	1	2	2	2	2	2	2	2	3	3
-32.5°	1	1	1	2	2	2	2	2	2	2	3
-35°	1	1	1	2	2	2	2	2	2	2	2
-37.5°	1	1	1	1	2	2	2	2	2	2	2
-40°	1	1	1	1	2	2	2	2	2	2	2
-42.5°	1	1	1	1	1	2	2	2	2	2	2
-45°	1	1	1	1	1	1	2	2	2	2	2
-47.5°	1	1	1	1	1	1	1	2	2	2	2
-50°	1	1	1	1	1	1	1	1	2	2	2
-52.5°	0	1	1	1	1	1	1	1	1	2	2
-55°	0	1	1	1	1	1	1	1	1	1	1
-57.5°	0	0	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	0	1	1	1	1	1	1
-65°	0	0	0	0	0	0	1	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	0	1	1
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	2	2	2	2	2	2
57.5°	1	1	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	2	2	2	2
50°	2	2	2	2	2	2	2	2	2	2	2
47.5°	2	2	2	2	2	2	2	2	3	3	3
45°	2	2	2	2	2	3	3	3	3	3	3
42.5°	2	2	2	3	3	3	3	3	3	4	4
40°	2	2	3	3	3	3	4	4	5	5	5
37.5°	2	3	3	3	4	4	5	5	5	6	6
35°	3	3	3	4	5	5	5	6	6	6	7
32.5°	3	3	4	5	5	6	6	7	7	8	9
30°	3	4	5	5	6	6	7	8	10	11	13
27.5°	4	5	5	6	7	8	9	11	14	16	20
25°	5	5	6	7	8	10	12	15	21	27	34
22.5°	5	6	6	8	10	13	17	25	34	44	54
20°	5	6	7	9	12	17	26	38	50	65	78
17.5°	6	7	8	11	15	25	38	53	71	88	103
15°	6	7	10	14	21	34	50	71	91	113	136
12.5°	6	8	11	16	27	44	65	88	113	142	191
10°	7	9	13	20	34	54	78	103	136	191	271
7.5°	7	10	14	24	40	63	89	120	167	247	442
5°	7	10	15	26	45	69	97	133	196	325	715
2.5°	8	10	16	27	48	74	102	140	215	403	983
0°	8	11	16	28	49	75	104	143	221	439	1083
-2.5°	8	10	16	27	48	74	102	140	215	403	983
-5°	7	10	15	26	45	69	97	133	196	325	715
-7.5°	7	10	14	24	40	63	89	120	167	247	442
-10°	7	9	13	20	34	54	78	103	136	191	271
-12.5°	6	8	11	16	27	44	65	88	113	142	191
-15°	6	7	10	14	21	34	50	71	91	113	136
-17.5°	6	7	8	11	15	25	38	53	71	88	103
-20°	5	6	7	9	12	17	26	38	50	65	78



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5	6	6	8	10	13	17	25	34	44	54
-25°	5	5	6	7	8	10	12	15	21	27	34
-27.5°	4	5	5	6	7	8	9	11	14	16	20
-30°	3	4	5	5	6	6	7	8	10	11	13
-32.5°	3	3	4	5	5	6	6	7	7	8	9
-35°	3	3	3	4	5	5	5	6	6	6	7
-37.5°	2	3	3	3	4	4	5	5	5	6	6
-40°	2	2	3	3	3	3	4	4	5	5	5
-42.5°	2	2	2	3	3	3	3	3	3	4	4
-45°	2	2	2	2	2	3	3	3	3	3	3
-47.5°	2	2	2	2	2	2	2	2	3	3	3
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	2	2
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	1	1	2	2	2	2	2	2	2	2	2
-60°	1	1	1	1	1	2	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	0	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	0	1	1	1	1
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
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
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	2	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	2	2	2	2
50°	2	2	2	2	2	2	2	2	2	2	2
47.5°	3	3	3	3	3	3	3	3	3	3	2
45°	3	3	3	3	3	3	3	3	3	3	3
42.5°	4	4	4	5	4	4	4	4	4	3	3
40°	5	5	5	5	5	5	5	5	5	5	4
37.5°	6	6	6	6	6	6	6	6	6	5	5
35°	7	7	8	8	8	7	7	7	6	6	6
32.5°	10	10	10	11	10	10	10	9	8	7	7
30°	14	15	16	16	16	15	14	13	11	10	8
27.5°	24	26	27	28	27	26	24	20	16	14	11
25°	40	45	48	49	48	45	40	34	27	21	15
22.5°	63	69	74	75	74	69	63	54	44	34	25
20°	89	97	102	104	102	97	89	78	65	50	38
17.5°	120	133	140	143	140	133	120	103	88	71	53
15°	167	196	215	221	215	196	167	136	113	91	71
12.5°	247	325	403	439	403	325	247	191	142	113	88
10°	442	715	983	1083	983	715	442	271	191	136	103
7.5°	890	1467	1924	2090	1924	1467	890	442	247	167	120
5°	1467	2268	2849	3078	2849	2268	1467	715	325	196	133
2.5°	1924	2849	3657	4046	3657	2849	1924	983	403	215	140
0°	2090	3078	4046	4580	4046	3078	2090	1083	439	221	143
-2.5°	1924	2849	3657	4046	3657	2849	1924	983	403	215	140
-5°	1467	2268	2849	3078	2849	2268	1467	715	325	196	133
-7.5°	890	1467	1924	2090	1924	1467	890	442	247	167	120
-10°	442	715	983	1083	983	715	442	271	191	136	103
-12.5°	247	325	403	439	403	325	247	191	142	113	88
-15°	167	196	215	221	215	196	167	136	113	91	71
-17.5°	120	133	140	143	140	133	120	103	88	71	53
-20°	89	97	102	104	102	97	89	78	65	50	38



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	63	69	74	75	74	69	63	54	44	34	25
-25°	40	45	48	49	48	45	40	34	27	21	15
-27.5°	24	26	27	28	27	26	24	20	16	14	11
-30°	14	15	16	16	16	15	14	13	11	10	8
-32.5°	10	10	10	11	10	10	10	9	8	7	7
-35°	7	7	8	8	8	7	7	7	6	6	6
-37.5°	6	6	6	6	6	6	6	6	6	5	5
-40°	5	5	5	5	5	5	5	5	5	5	4
-42.5°	4	4	4	5	4	4	4	4	4	3	3
-45°	3	3	3	3	3	3	3	3	3	3	3
-47.5°	3	3	3	3	3	3	3	3	3	3	2
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	2	2
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	1	1	1	2	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
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
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	1	1	1	1	1	1	1	1	1	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	1	1	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	1	1	1	1	1	1
55°	2	2	2	2	2	2	2	1	1	1	1
52.5°	2	2	2	2	2	2	2	2	2	1	1
50°	2	2	2	2	2	2	2	2	2	2	1
47.5°	2	2	2	2	2	2	2	2	2	2	2
45°	3	3	2	2	2	2	2	2	2	2	2
42.5°	3	3	3	3	2	2	2	2	2	2	2
40°	4	3	3	3	3	2	2	2	2	2	2
37.5°	5	4	4	3	3	3	2	2	2	2	2
35°	5	5	5	4	3	3	3	2	2	2	2
32.5°	6	6	5	5	4	3	3	3	2	2	2
30°	7	6	6	5	5	4	3	3	3	2	2
27.5°	9	8	7	6	5	5	4	3	3	3	2
25°	12	10	8	7	6	5	5	4	3	3	2
22.5°	17	13	10	8	6	6	5	4	3	3	3
20°	26	17	12	9	7	6	5	5	4	3	3
17.5°	38	25	15	11	8	7	6	5	4	3	3
15°	50	34	21	14	10	7	6	5	5	3	3
12.5°	65	44	27	16	11	8	6	6	5	4	3
10°	78	54	34	20	13	9	7	6	5	4	3
7.5°	89	63	40	24	14	10	7	6	5	4	3
5°	97	69	45	26	15	10	7	6	5	4	3
2.5°	102	74	48	27	16	10	8	6	5	4	3
0°	104	75	49	28	16	11	8	6	5	5	3
-2.5°	102	74	48	27	16	10	8	6	5	4	3
-5°	97	69	45	26	15	10	7	6	5	4	3
-7.5°	89	63	40	24	14	10	7	6	5	4	3
-10°	78	54	34	20	13	9	7	6	5	4	3
-12.5°	65	44	27	16	11	8	6	6	5	4	3
-15°	50	34	21	14	10	7	6	5	5	3	3
-17.5°	38	25	15	11	8	7	6	5	4	3	3
-20°	26	17	12	9	7	6	5	5	4	3	3



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17	13	10	8	6	6	5	4	3	3	3
-25°	12	10	8	7	6	5	5	4	3	3	2
-27.5°	9	8	7	6	5	5	4	3	3	3	2
-30°	7	6	6	5	5	4	3	3	3	2	2
-32.5°	6	6	5	5	4	3	3	3	2	2	2
-35°	5	5	5	4	3	3	3	2	2	2	2
-37.5°	5	4	4	3	3	3	2	2	2	2	2
-40°	4	3	3	3	3	2	2	2	2	2	2
-42.5°	3	3	3	3	2	2	2	2	2	2	2
-45°	3	3	2	2	2	2	2	2	2	2	2
-47.5°	2	2	2	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	2	1
-52.5°	2	2	2	2	2	2	2	2	2	1	1
-55°	2	2	2	2	2	2	2	1	1	1	1
-57.5°	2	2	2	2	2	1	1	1	1	1	1
-60°	2	2	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	0	0
-70°	1	1	1	1	1	1	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
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
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	0	0	0	0	0	0	0	0	0
60°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	0	0	0	0	0	0
55°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	0	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	1	1	1	1	1	1	1	1	0	0	0
45°	2	1	1	1	1	1	1	1	0	0	0
42.5°	2	2	1	1	1	1	1	1	0	0	0
40°	2	2	2	1	1	1	1	1	1	0	0
37.5°	2	2	2	1	1	1	1	1	1	0	0
35°	2	2	2	2	1	1	1	1	1	0	0
32.5°	2	2	2	2	1	1	1	1	1	1	0
30°	2	2	2	2	2	1	1	1	1	1	0
27.5°	2	2	2	2	2	1	1	1	1	1	0
25°	2	2	2	2	2	1	1	1	1	1	0
22.5°	2	2	2	2	2	2	1	1	1	1	0
20°	2	2	2	2	2	2	1	1	1	1	0
17.5°	2	2	2	2	2	2	1	1	1	1	1
15°	3	2	2	2	2	2	1	1	1	1	1
12.5°	3	2	2	2	2	2	1	1	1	1	1
10°	3	2	2	2	2	2	1	1	1	1	1
7.5°	3	2	2	2	2	2	1	1	1	1	1
5°	3	2	2	2	2	2	1	1	1	1	1
2.5°	3	2	2	2	2	2	1	1	1	1	1
0°	3	2	2	2	2	2	2	1	1	1	1
-2.5°	3	2	2	2	2	2	1	1	1	1	1
-5°	3	2	2	2	2	2	1	1	1	1	1
-7.5°	3	2	2	2	2	2	1	1	1	1	1
-10°	3	2	2	2	2	2	1	1	1	1	1
-12.5°	3	2	2	2	2	2	1	1	1	1	1
-15°	3	2	2	2	2	2	1	1	1	1	1
-17.5°	2	2	2	2	2	2	1	1	1	1	1
-20°	2	2	2	2	2	2	1	1	1	1	0



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2	2	2	2	2	2	1	1	1	1	0
-25°	2	2	2	2	2	1	1	1	1	1	0
-27.5°	2	2	2	2	2	1	1	1	1	1	0
-30°	2	2	2	2	2	1	1	1	1	1	0
-32.5°	2	2	2	2	1	1	1	1	1	1	0
-35°	2	2	2	2	1	1	1	1	1	0	0
-37.5°	2	2	2	1	1	1	1	1	1	0	0
-40°	2	2	2	1	1	1	1	1	1	0	0
-42.5°	2	2	1	1	1	1	1	1	0	0	0
-45°	2	1	1	1	1	1	1	1	0	0	0
-47.5°	1	1	1	1	1	1	1	1	0	0	0
-50°	1	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	1	0	0	0	0	0
-55°	1	1	1	1	1	1	0	0	0	0	0
-57.5°	1	1	1	1	1	0	0	0	0	0	0
-60°	1	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	0	0	0	0	0	0	0	0	0
-65°	1	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-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
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	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: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0



REPORT NUMBER: P220401 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-S-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)