

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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3090-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220402 (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-LED3090-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH 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:	2H x 2V
Luminaire Lumens:	366.7 lumens	Max Intensity:	4851.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	36.7 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:	151.2 lumens	Field Lumens:	281.8 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%

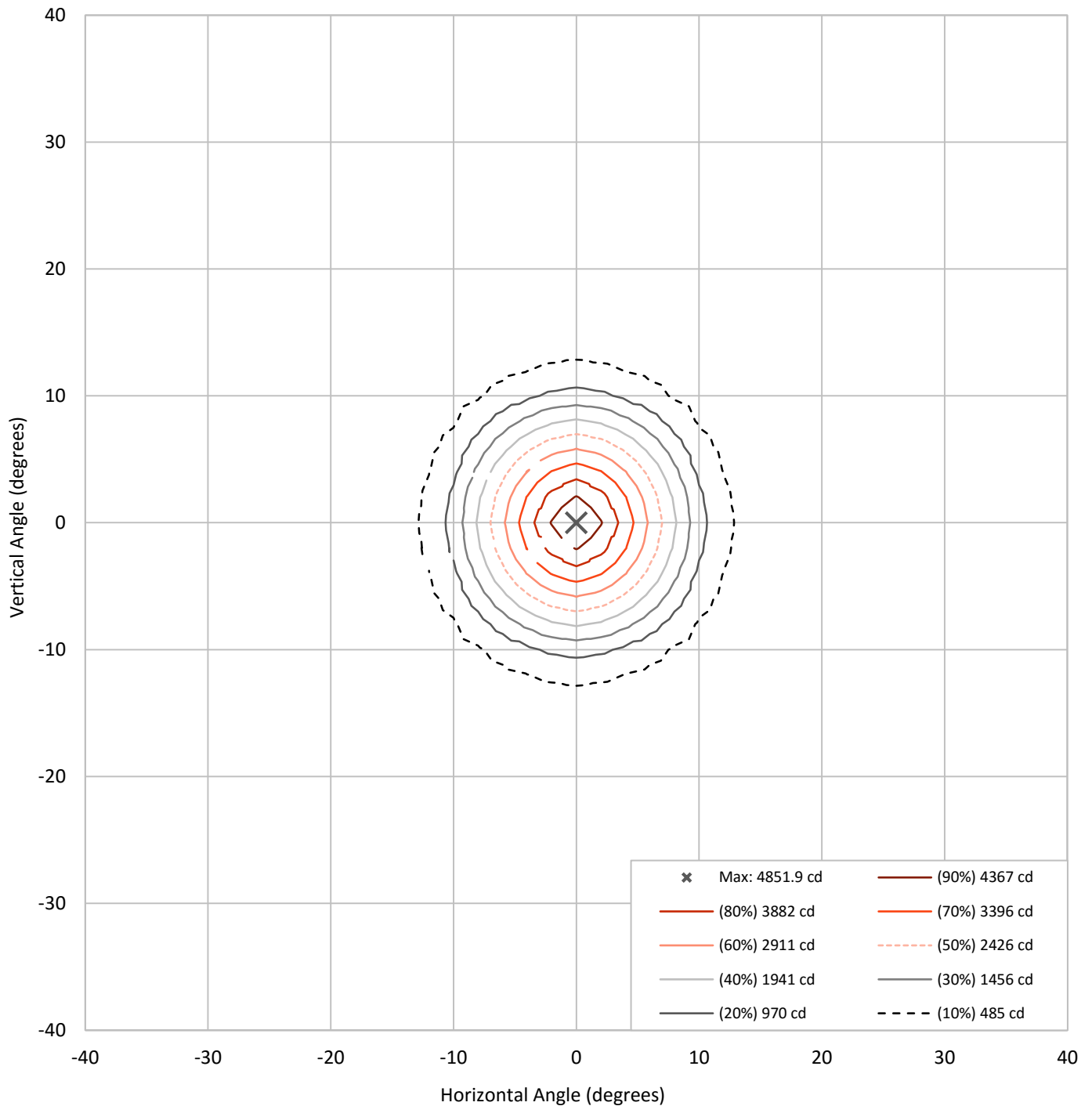
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-BK-L1-UNV

### Iso-Candela Plot





REPORT NUMBER: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)

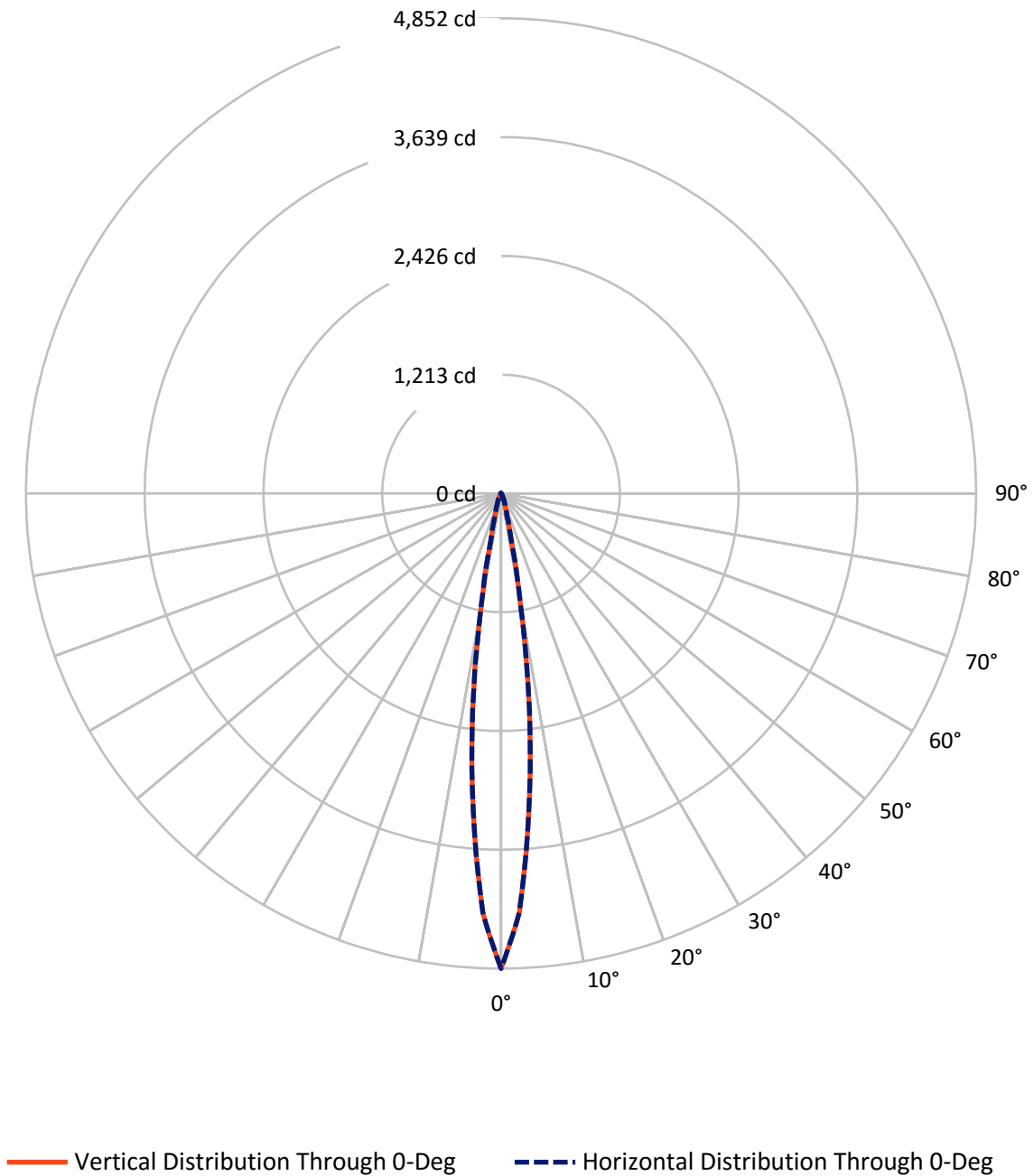
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-BK-L1-UNV

### 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	0.1	0.1	0.1	0.1	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	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	0.3	0.8	1.5	1.5	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.0
20		0.0	0.0	0.1	0.2	0.7	3.0	8.4	8.4	3.0	0.7	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.2	1.4	8.2	65.1	65.1	8.2	1.4	0.2	0.1	0.0	0.0	0.0	0.0
0		0.0	0.0	0.1	0.2	1.4	8.2	65.1	65.1	8.2	1.4	0.2	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	0.7	3.0	8.4	8.4	3.0	0.7	0.2	0.1	0.0	0.0	0.0	0.0
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.5	1.5	0.8	0.3	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	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	0.1	0.1	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	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	0.0

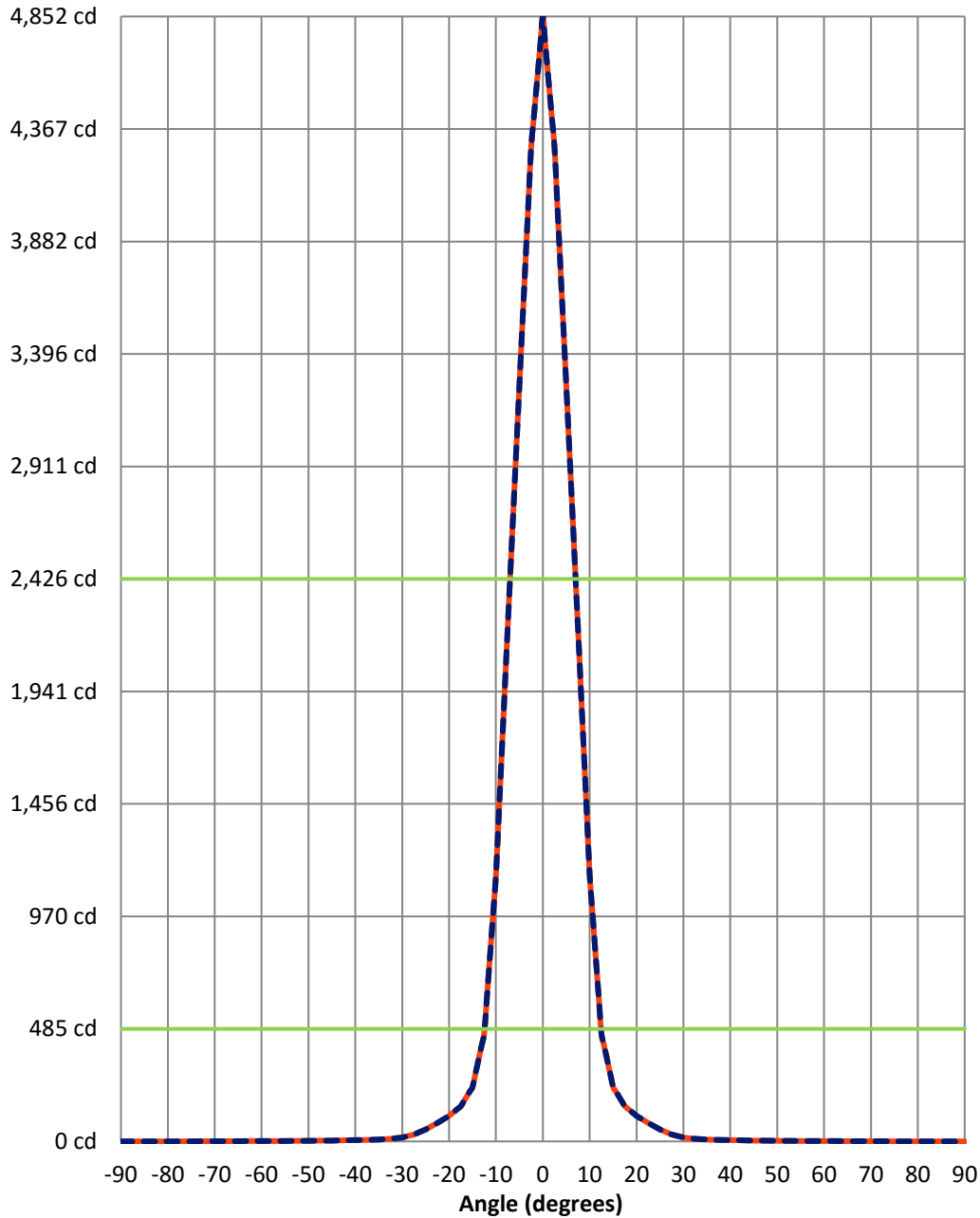
REPORT NUMBER: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-BK-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 14°  
 V Angle: 14°  
 Lumens: 151.2  
 Efficiency: 41.2%

**Field:**  
 H Angle: 24.9°  
 V Angle: 24.9°  
 Lumens: 281.8  
 Efficiency: 76.8%

**Spill:**  
 Lumens: 85  
 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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	3
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	5
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	6
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°	2	2	2	2	2	2	3	3	4	5	6
5°	2	2	2	2	2	2	3	3	5	6	6
2.5°	2	2	2	2	2	2	3	3	5	6	6
0°	2	2	2	2	2	2	3	3	5	6	6
-2.5°	2	2	2	2	2	2	3	3	5	6	6
-5°	2	2	2	2	2	2	3	3	5	6	6
-7.5°	2	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	6
-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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	5
-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	3
-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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	3	3	3	3	4	5	5	5	6	6	6
35°	3	3	3	4	5	5	6	6	6	7	7
32.5°	3	3	4	5	6	6	6	7	8	9	9
30°	3	4	5	6	6	7	8	9	10	12	13
27.5°	4	5	6	6	7	8	10	12	14	17	21
25°	5	6	6	7	8	10	13	16	22	28	36
22.5°	5	6	7	8	10	14	18	26	36	46	57
20°	6	6	8	10	13	18	27	40	53	69	82
17.5°	6	7	9	12	16	26	40	56	75	93	109
15°	6	8	10	14	22	36	53	75	97	119	144
12.5°	7	9	12	17	28	46	69	93	119	150	203
10°	7	9	13	21	36	57	82	109	144	203	287
7.5°	8	10	15	25	42	66	94	127	177	261	469
5°	8	11	16	28	47	74	103	140	208	345	757
2.5°	8	11	17	29	50	78	108	149	228	426	1042
0°	8	11	17	30	51	79	110	152	234	465	1147
-2.5°	8	11	17	29	50	78	108	149	228	426	1042
-5°	8	11	16	28	47	74	103	140	208	345	757
-7.5°	8	10	15	25	42	66	94	127	177	261	469
-10°	7	9	13	21	36	57	82	109	144	203	287
-12.5°	7	9	12	17	28	46	69	93	119	150	203
-15°	6	8	10	14	22	36	53	75	97	119	144
-17.5°	6	7	9	12	16	26	40	56	75	93	109
-20°	6	6	8	10	13	18	27	40	53	69	82



REPORT NUMBER: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	7	8	10	14	18	26	36	46	57
-25°	5	6	6	7	8	10	13	16	22	28	36
-27.5°	4	5	6	6	7	8	10	12	14	17	21
-30°	3	4	5	6	6	7	8	9	10	12	13
-32.5°	3	3	4	5	6	6	6	7	8	9	9
-35°	3	3	3	4	5	5	6	6	6	7	7
-37.5°	3	3	3	3	4	5	5	5	6	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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	2	2	2	2	2	2	2	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	5	5	5	5	5	4	4	4	3	3
40°	5	6	6	6	6	6	5	5	5	5	4
37.5°	6	6	6	6	6	6	6	6	6	6	5
35°	8	8	8	8	8	8	8	7	7	6	6
32.5°	10	11	11	11	11	11	10	9	9	8	7
30°	15	16	17	17	17	16	15	13	12	10	9
27.5°	25	28	29	30	29	28	25	21	17	14	12
25°	42	47	50	51	50	47	42	36	28	22	16
22.5°	66	74	78	79	78	74	66	57	46	36	26
20°	94	103	108	110	108	103	94	82	69	53	40
17.5°	127	140	149	152	149	140	127	109	93	75	56
15°	177	208	228	234	228	208	177	144	119	97	75
12.5°	261	345	426	465	426	345	261	203	150	119	93
10°	469	757	1042	1147	1042	757	469	287	203	144	109
7.5°	942	1554	2038	2214	2038	1554	942	469	261	177	127
5°	1554	2403	3018	3261	3018	2403	1554	757	345	208	140
2.5°	2038	3018	3874	4286	3874	3018	2038	1042	426	228	149
0°	2214	3261	4286	4852	4286	3261	2214	1147	465	234	152
-2.5°	2038	3018	3874	4286	3874	3018	2038	1042	426	228	149
-5°	1554	2403	3018	3261	3018	2403	1554	757	345	208	140
-7.5°	942	1554	2038	2214	2038	1554	942	469	261	177	127
-10°	469	757	1042	1147	1042	757	469	287	203	144	109
-12.5°	261	345	426	465	426	345	261	203	150	119	93
-15°	177	208	228	234	228	208	177	144	119	97	75
-17.5°	127	140	149	152	149	140	127	109	93	75	56
-20°	94	103	108	110	108	103	94	82	69	53	40



REPORT NUMBER: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	66	74	78	79	78	74	66	57	46	36	26
-25°	42	47	50	51	50	47	42	36	28	22	16
-27.5°	25	28	29	30	29	28	25	21	17	14	12
-30°	15	16	17	17	17	16	15	13	12	10	9
-32.5°	10	11	11	11	11	11	10	9	9	8	7
-35°	8	8	8	8	8	8	8	7	7	6	6
-37.5°	6	6	6	6	6	6	6	6	6	6	5
-40°	5	6	6	6	6	6	5	5	5	5	4
-42.5°	4	5	5	5	5	5	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°	2	2	2	2	2	2	2	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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	5	4	3	3	3	3	2	2	2	2
35°	6	5	5	4	3	3	3	3	2	2	2
32.5°	6	6	6	5	4	3	3	3	2	2	2
30°	8	7	6	6	5	4	3	3	3	2	2
27.5°	10	8	7	6	6	5	4	3	3	3	2
25°	13	10	8	7	6	6	5	4	3	3	2
22.5°	18	14	10	8	7	6	5	5	3	3	3
20°	27	18	13	10	8	6	6	5	4	3	3
17.5°	40	26	16	12	9	7	6	5	4	3	3
15°	53	36	22	14	10	8	6	6	5	3	3
12.5°	69	46	28	17	12	9	7	6	5	4	3
10°	82	57	36	21	13	9	7	6	5	4	3
7.5°	94	66	42	25	15	10	8	6	5	4	3
5°	103	74	47	28	16	11	8	6	6	5	3
2.5°	108	78	50	29	17	11	8	6	6	5	3
0°	110	79	51	30	17	11	8	6	6	5	3
-2.5°	108	78	50	29	17	11	8	6	6	5	3
-5°	103	74	47	28	16	11	8	6	6	5	3
-7.5°	94	66	42	25	15	10	8	6	5	4	3
-10°	82	57	36	21	13	9	7	6	5	4	3
-12.5°	69	46	28	17	12	9	7	6	5	4	3
-15°	53	36	22	14	10	8	6	6	5	3	3
-17.5°	40	26	16	12	9	7	6	5	4	3	3
-20°	27	18	13	10	8	6	6	5	4	3	3



REPORT NUMBER: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	18	14	10	8	7	6	5	5	3	3	3
-25°	13	10	8	7	6	6	5	4	3	3	2
-27.5°	10	8	7	6	6	5	4	3	3	3	2
-30°	8	7	6	6	5	4	3	3	3	2	2
-32.5°	6	6	6	5	4	3	3	3	2	2	2
-35°	6	5	5	4	3	3	3	3	2	2	2
-37.5°	5	5	4	3	3	3	3	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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	2	1	1	1	1
5°	3	2	2	2	2	2	2	1	1	1	1
2.5°	3	2	2	2	2	2	2	1	1	1	1
0°	3	2	2	2	2	2	2	1	1	1	1
-2.5°	3	2	2	2	2	2	2	1	1	1	1
-5°	3	2	2	2	2	2	2	1	1	1	1
-7.5°	3	2	2	2	2	2	2	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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220402 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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)