

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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED4097-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220408 (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-LED4097-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	380.8 lumens	Max Intensity:	5037.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	38.1 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:	157 lumens	Field Lumens:	292.6 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%

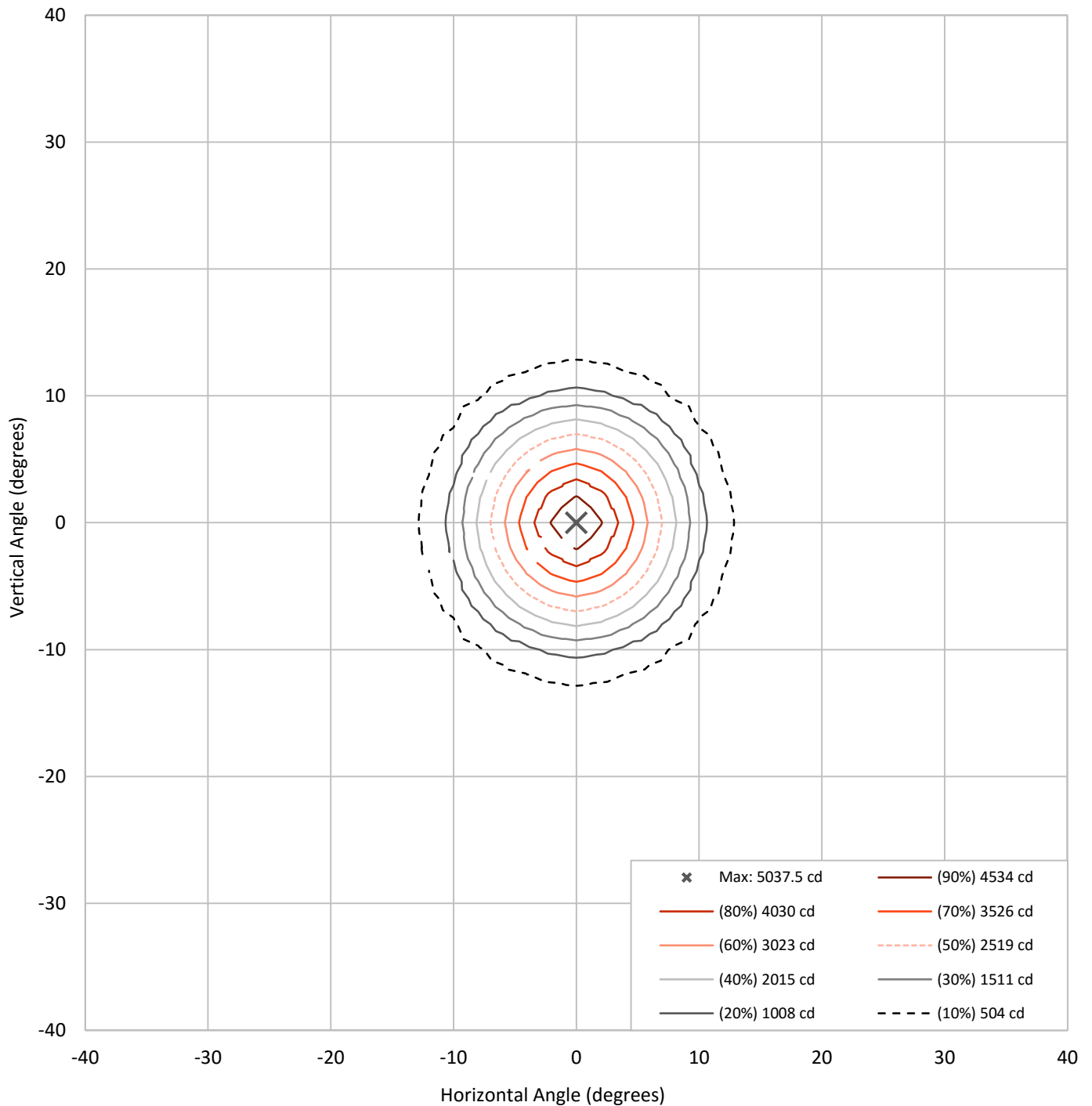
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-BK-L1-UNV

### Iso-Candela Plot



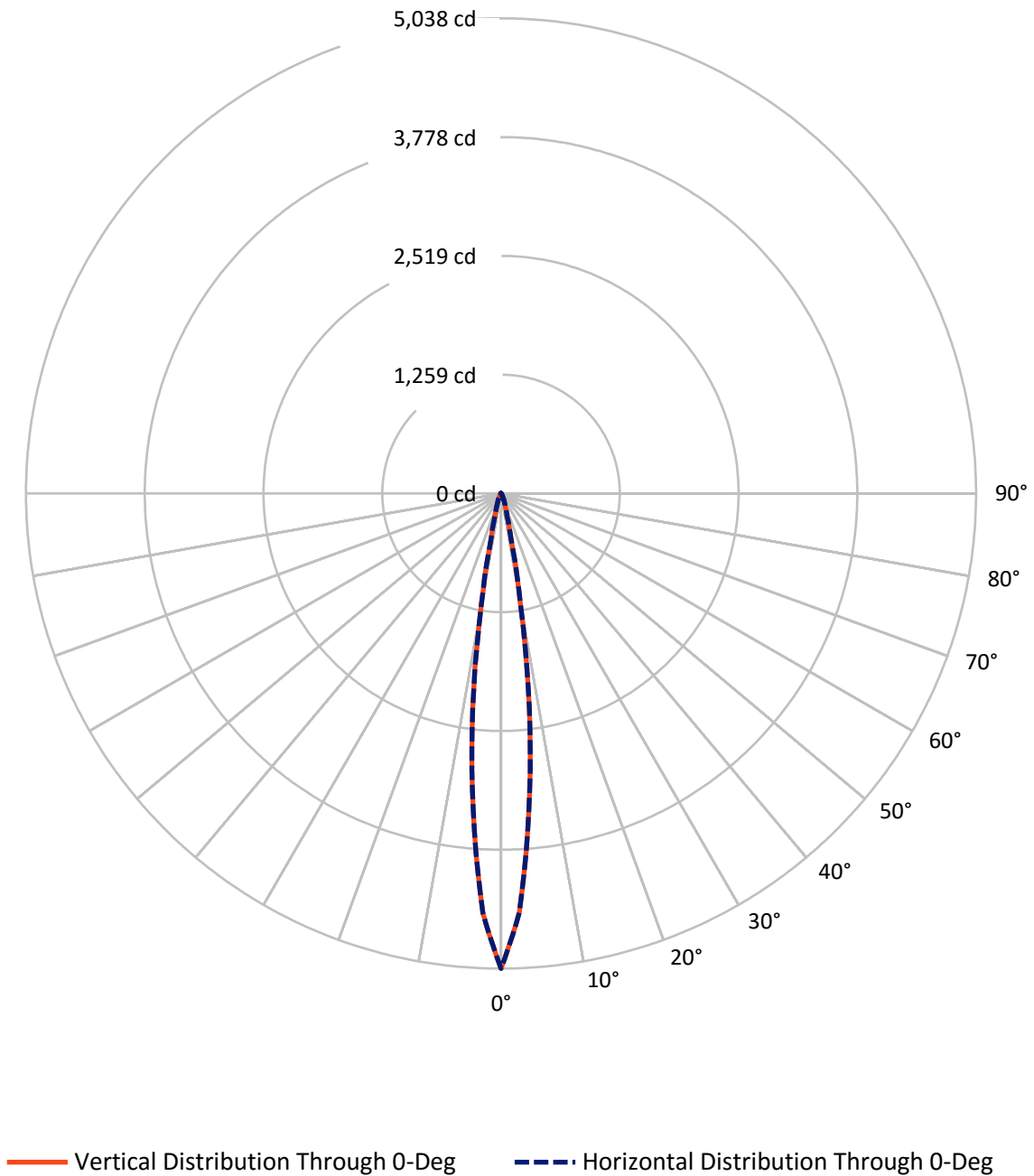
REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-BK-L1-UNV

### 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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	1.6	1.6	0.8	0.3	0.1	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	0.8	3.1	8.7	8.7	3.1	0.8	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.2	1.5	8.5	67.6	67.6	8.5	1.5	0.2	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.2	1.5	8.5	67.6	67.6	8.5	1.5	0.2	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	0.8	3.1	8.7	8.7	3.1	0.8	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.6	1.6	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	
-40		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0		
-50	0.0	0.0	0.0	0.0	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	0.0	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	

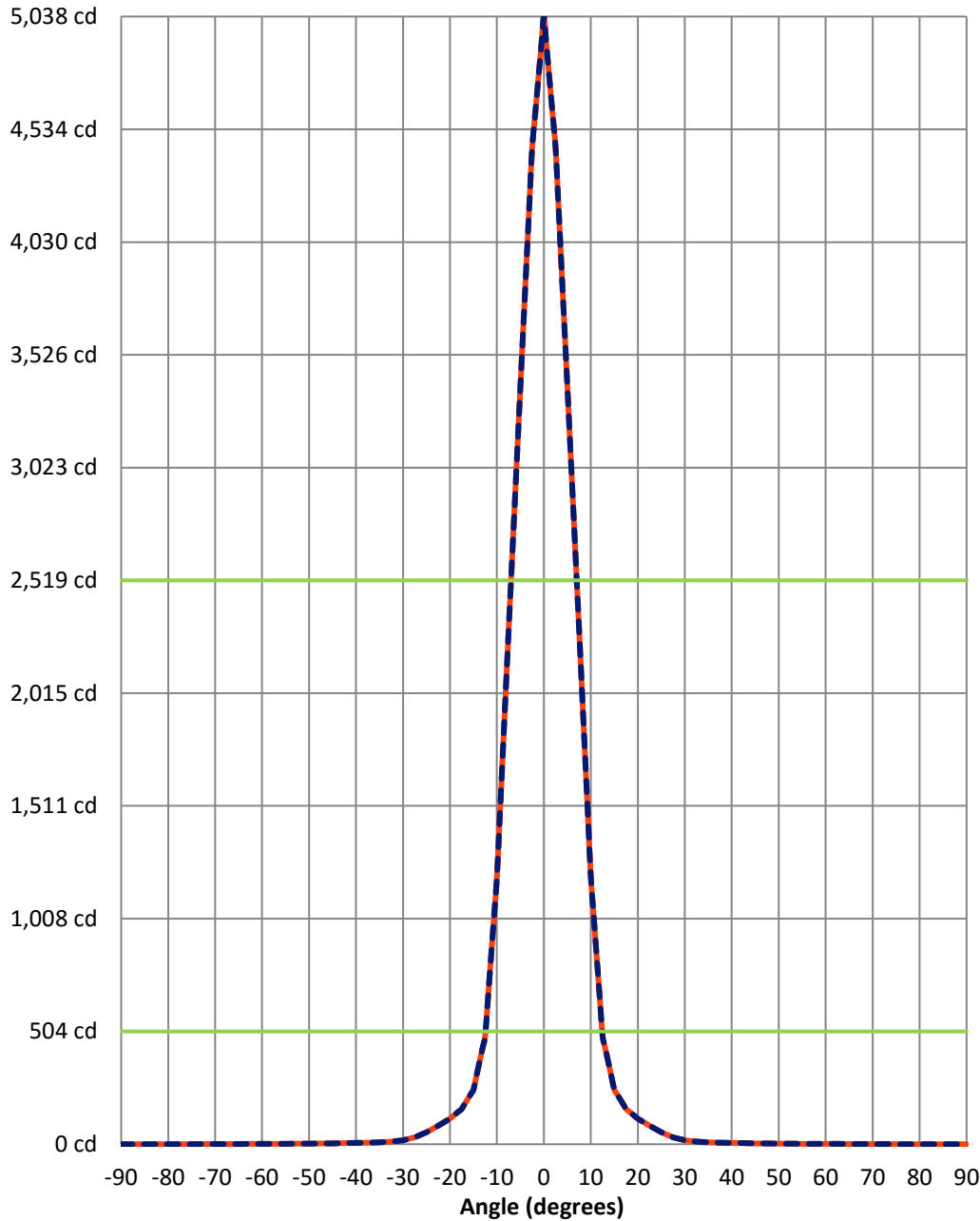
REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-BK-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 14°  
 V Angle: 14°  
 Lumens: 157  
 Efficiency: 41.2%

**Field:**  
 H Angle: 24.9°  
 V Angle: 24.9°  
 Lumens: 292.6  
 Efficiency: 76.8%

**Spill:**  
 Lumens: 88.2  
 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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	2
52.5°	0	1	1	1	1	1	1	1	1	2	2
50°	1	1	1	1	1	1	1	2	2	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
45°	1	1	1	1	1	2	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	2	2	2	2	2	2	2	3
35°	1	1	1	2	2	2	2	2	2	3	3
32.5°	1	1	2	2	2	2	2	2	3	3	3
30°	1	1	2	2	2	2	2	3	3	3	3
27.5°	1	1	2	2	2	2	2	3	3	3	3
25°	1	2	2	2	2	2	3	3	3	3	4
22.5°	1	2	2	2	2	2	3	3	3	3	5
20°	1	2	2	2	2	2	3	3	3	4	5
17.5°	1	2	2	2	2	3	3	3	3	5	6
15°	1	2	2	2	2	3	3	3	4	5	6
12.5°	1	2	2	2	2	3	3	3	4	5	6
10°	2	2	2	2	2	3	3	3	4	5	6
7.5°	2	2	2	2	2	3	3	3	5	6	6
5°	2	2	2	2	2	3	3	3	5	6	7
2.5°	2	2	2	2	2	3	3	3	5	6	7
0°	2	2	2	2	3	3	3	3	5	6	7
-2.5°	2	2	2	2	2	3	3	3	5	6	7
-5°	2	2	2	2	2	3	3	3	5	6	7
-7.5°	2	2	2	2	2	3	3	3	5	6	6
-10°	2	2	2	2	2	3	3	3	4	5	6
-12.5°	1	2	2	2	2	3	3	3	4	5	6
-15°	1	2	2	2	2	3	3	3	4	5	6
-17.5°	1	2	2	2	2	3	3	3	3	5	6
-20°	1	2	2	2	2	2	3	3	3	4	5



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	3	3	3	3	5
-25°	1	2	2	2	2	2	3	3	3	3	4
-27.5°	1	1	2	2	2	2	2	3	3	3	3
-30°	1	1	2	2	2	2	2	3	3	3	3
-32.5°	1	1	2	2	2	2	2	2	3	3	3
-35°	1	1	1	2	2	2	2	2	2	3	3
-37.5°	1	1	1	2	2	2	2	2	2	2	3
-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	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	2	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	2
-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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	2
60°	1	1	1	1	2	2	2	2	2	2	2
57.5°	1	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	3	3	3	3
47.5°	2	2	2	2	3	3	3	3	3	3	3
45°	2	2	3	3	3	3	3	3	3	3	3
42.5°	2	3	3	3	3	3	3	3	4	4	4
40°	3	3	3	3	3	3	4	5	5	5	5
37.5°	3	3	3	3	4	5	5	6	6	6	6
35°	3	3	3	4	5	6	6	6	7	7	8
32.5°	3	4	5	5	6	6	7	7	8	9	10
30°	3	5	5	6	6	7	8	9	11	12	14
27.5°	4	5	6	6	7	8	10	12	15	17	22
25°	5	6	6	7	9	11	14	17	23	29	37
22.5°	6	6	7	8	11	14	19	27	37	48	59
20°	6	7	8	10	14	19	28	41	55	71	85
17.5°	6	7	9	12	17	27	41	59	78	97	113
15°	7	8	11	15	23	37	55	78	100	124	149
12.5°	7	9	12	17	29	48	71	97	124	156	210
10°	8	10	14	22	37	59	85	113	149	210	298
7.5°	8	11	16	26	44	69	98	132	184	271	487
5°	8	11	17	29	49	76	107	146	216	358	786
2.5°	8	12	17	30	52	81	112	154	236	443	1082
0°	8	12	18	31	53	83	114	157	243	483	1191
-2.5°	8	12	17	30	52	81	112	154	236	443	1082
-5°	8	11	17	29	49	76	107	146	216	358	786
-7.5°	8	11	16	26	44	69	98	132	184	271	487
-10°	8	10	14	22	37	59	85	113	149	210	298
-12.5°	7	9	12	17	29	48	71	97	124	156	210
-15°	7	8	11	15	23	37	55	78	100	124	149
-17.5°	6	7	9	12	17	27	41	59	78	97	113
-20°	6	7	8	10	14	19	28	41	55	71	85



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	6	6	7	8	11	14	19	27	37	48	59
-25°	5	6	6	7	9	11	14	17	23	29	37
-27.5°	4	5	6	6	7	8	10	12	15	17	22
-30°	3	5	5	6	6	7	8	9	11	12	14
-32.5°	3	4	5	5	6	6	7	7	8	9	10
-35°	3	3	3	4	5	6	6	6	7	7	8
-37.5°	3	3	3	3	4	5	5	6	6	6	6
-40°	3	3	3	3	3	3	4	5	5	5	5
-42.5°	2	3	3	3	3	3	3	3	4	4	4
-45°	2	2	3	3	3	3	3	3	3	3	3
-47.5°	2	2	2	2	3	3	3	3	3	3	3
-50°	2	2	2	2	2	2	2	3	3	3	3
-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	2	2	2	2	2	2	2	2	2	2
-60°	1	1	1	1	2	2	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	1	1	2
-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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	2	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	3	2	2	2	2	2	2	2
50°	3	3	3	3	3	3	3	3	3	3	3
47.5°	3	3	3	3	3	3	3	3	3	3	3
45°	3	3	3	3	3	3	3	3	3	3	3
42.5°	5	5	5	5	5	5	5	4	4	4	3
40°	6	6	6	6	6	6	6	5	5	5	5
37.5°	6	7	7	7	7	7	6	6	6	6	6
35°	8	8	8	8	8	8	8	8	7	7	6
32.5°	11	11	12	12	12	11	11	10	9	8	7
30°	16	17	17	18	17	17	16	14	12	11	9
27.5°	26	29	30	31	30	29	26	22	17	15	12
25°	44	49	52	53	52	49	44	37	29	23	17
22.5°	69	76	81	83	81	76	69	59	48	37	27
20°	98	107	112	114	112	107	98	85	71	55	41
17.5°	132	146	154	157	154	146	132	113	97	78	59
15°	184	216	236	243	236	216	184	149	124	100	78
12.5°	271	358	443	483	443	358	271	210	156	124	97
10°	487	786	1082	1191	1082	786	487	298	210	149	113
7.5°	978	1614	2116	2299	2116	1614	978	487	271	184	132
5°	1614	2495	3134	3386	3134	2495	1614	786	358	216	146
2.5°	2116	3134	4022	4450	4022	3134	2116	1082	443	236	154
0°	2299	3386	4450	5038	4450	3386	2299	1191	483	243	157
-2.5°	2116	3134	4022	4450	4022	3134	2116	1082	443	236	154
-5°	1614	2495	3134	3386	3134	2495	1614	786	358	216	146
-7.5°	978	1614	2116	2299	2116	1614	978	487	271	184	132
-10°	487	786	1082	1191	1082	786	487	298	210	149	113
-12.5°	271	358	443	483	443	358	271	210	156	124	97
-15°	184	216	236	243	236	216	184	149	124	100	78
-17.5°	132	146	154	157	154	146	132	113	97	78	59
-20°	98	107	112	114	112	107	98	85	71	55	41



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	69	76	81	83	81	76	69	59	48	37	27
-25°	44	49	52	53	52	49	44	37	29	23	17
-27.5°	26	29	30	31	30	29	26	22	17	15	12
-30°	16	17	17	18	17	17	16	14	12	11	9
-32.5°	11	11	12	12	12	11	11	10	9	8	7
-35°	8	8	8	8	8	8	8	8	7	7	6
-37.5°	6	7	7	7	7	7	6	6	6	6	6
-40°	6	6	6	6	6	6	6	5	5	5	5
-42.5°	5	5	5	5	5	5	5	4	4	4	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	3
-50°	3	3	3	3	3	3	3	3	3	3	3
-52.5°	2	2	2	3	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	2	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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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	2	1	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	2	1	1	1	1	1
55°	2	2	2	2	2	2	2	2	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	2
47.5°	3	3	3	2	2	2	2	2	2	2	2
45°	3	3	3	3	3	2	2	2	2	2	2
42.5°	3	3	3	3	3	3	2	2	2	2	2
40°	4	3	3	3	3	3	3	2	2	2	2
37.5°	5	5	4	3	3	3	3	3	2	2	2
35°	6	6	5	4	3	3	3	3	3	2	2
32.5°	7	6	6	5	5	4	3	3	3	3	2
30°	8	7	6	6	5	5	3	3	3	3	3
27.5°	10	8	7	6	6	5	4	3	3	3	3
25°	14	11	9	7	6	6	5	4	3	3	3
22.5°	19	14	11	8	7	6	6	5	3	3	3
20°	28	19	14	10	8	7	6	5	4	3	3
17.5°	41	27	17	12	9	7	6	6	5	3	3
15°	55	37	23	15	11	8	7	6	5	4	3
12.5°	71	48	29	17	12	9	7	6	5	4	3
10°	85	59	37	22	14	10	8	6	5	4	3
7.5°	98	69	44	26	16	11	8	6	6	5	3
5°	107	76	49	29	17	11	8	7	6	5	3
2.5°	112	81	52	30	17	12	8	7	6	5	3
0°	114	83	53	31	18	12	8	7	6	5	3
-2.5°	112	81	52	30	17	12	8	7	6	5	3
-5°	107	76	49	29	17	11	8	7	6	5	3
-7.5°	98	69	44	26	16	11	8	6	6	5	3
-10°	85	59	37	22	14	10	8	6	5	4	3
-12.5°	71	48	29	17	12	9	7	6	5	4	3
-15°	55	37	23	15	11	8	7	6	5	4	3
-17.5°	41	27	17	12	9	7	6	6	5	3	3
-20°	28	19	14	10	8	7	6	5	4	3	3



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	19	14	11	8	7	6	6	5	3	3	3
-25°	14	11	9	7	6	6	5	4	3	3	3
-27.5°	10	8	7	6	6	5	4	3	3	3	3
-30°	8	7	6	6	5	5	3	3	3	3	3
-32.5°	7	6	6	5	5	4	3	3	3	3	2
-35°	6	6	5	4	3	3	3	3	3	2	2
-37.5°	5	5	4	3	3	3	3	3	2	2	2
-40°	4	3	3	3	3	3	3	2	2	2	2
-42.5°	3	3	3	3	3	3	2	2	2	2	2
-45°	3	3	3	3	3	2	2	2	2	2	2
-47.5°	3	3	3	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	1	1
-55°	2	2	2	2	2	2	2	2	1	1	1
-57.5°	2	2	2	2	2	2	1	1	1	1	1
-60°	2	2	2	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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	2	1	1	1	1	1	1	1	0	0	0
45°	2	2	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	2	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	2	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°	3	2	2	2	2	2	1	1	1	1	0
22.5°	3	2	2	2	2	2	1	1	1	1	0
20°	3	2	2	2	2	2	1	1	1	1	0
17.5°	3	3	2	2	2	2	1	1	1	1	1
15°	3	3	2	2	2	2	1	1	1	1	1
12.5°	3	3	2	2	2	2	1	1	1	1	1
10°	3	3	2	2	2	2	2	1	1	1	1
7.5°	3	3	2	2	2	2	2	1	1	1	1
5°	3	3	2	2	2	2	2	1	1	1	1
2.5°	3	3	2	2	2	2	2	1	1	1	1
0°	3	3	3	2	2	2	2	1	1	1	1
-2.5°	3	3	2	2	2	2	2	1	1	1	1
-5°	3	3	2	2	2	2	2	1	1	1	1
-7.5°	3	3	2	2	2	2	2	1	1	1	1
-10°	3	3	2	2	2	2	2	1	1	1	1
-12.5°	3	3	2	2	2	2	1	1	1	1	1
-15°	3	3	2	2	2	2	1	1	1	1	1
-17.5°	3	3	2	2	2	2	1	1	1	1	1
-20°	3	2	2	2	2	2	1	1	1	1	0



REPORT NUMBER: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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°	3	2	2	2	2	2	1	1	1	1	0
-25°	3	2	2	2	2	2	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	2	1	1	1	1	1	0
-35°	2	2	2	2	1	1	1	1	1	0	0
-37.5°	2	2	2	2	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	2	1	1	1	1	1	1	0	0	0
-47.5°	2	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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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: P220408 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-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)