

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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)  
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-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
SPOT OPTIC, WHITE 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:	395 lumens	Max Intensity:	4986.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	39.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.3°H x 14.3°V	Field Angle (10%):	25.1°H x 25.1°V
Beam Lumens:	158 lumens	Field Lumens:	297 lumens
Beam Efficiency:	40.0%	Field Efficiency:	75.2%

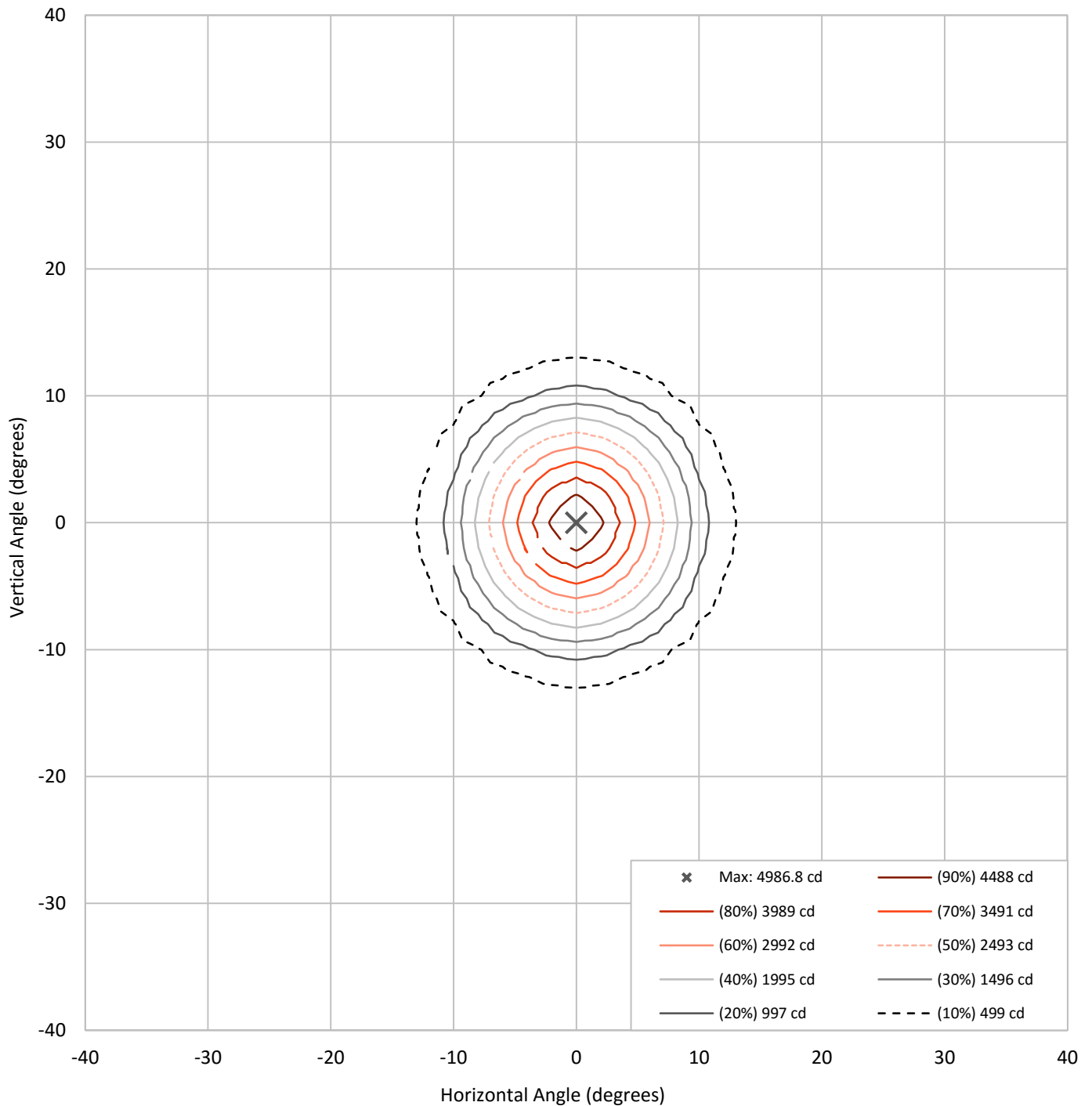
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)

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

### Iso-Candela Plot





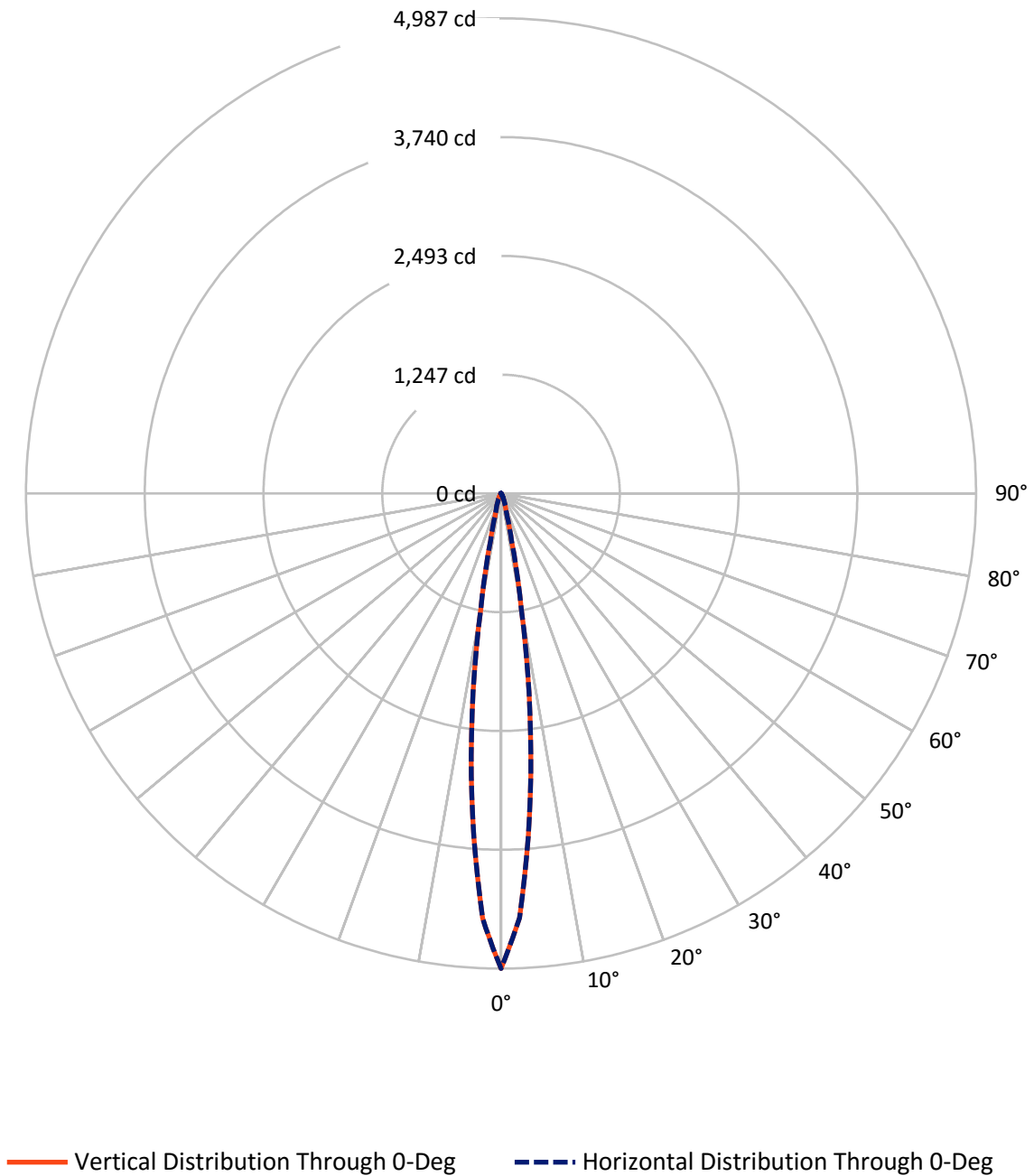
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-L1-UNV

### Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0										
80	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0										
70	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				
60		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0					
50	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0				
40		0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1					
30	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	1.7	0.9	0.3	0.2	0.1	0.1	0.0				
20		0.0	0.1	0.1	0.2	0.8	3.2	9.0	9.0	3.2	0.8	0.2	0.1	0.1					
10	0.0	0.0	0.1	0.1	0.3	1.5	8.7	68.5	68.5	8.7	1.5	0.3	0.1	0.1	0.0				
0		0.0	0.1	0.1	0.3	1.5	8.7	68.5	68.5	8.7	1.5	0.3	0.1	0.1					
-10	0.0	0.0	0.1	0.1	0.2	0.8	3.2	9.0	9.0	3.2	0.8	0.2	0.1	0.1	0.0				
-20		0.0	0.1	0.1	0.2	0.3	0.9	1.7	1.7	0.9	0.3	0.2	0.1	0.1					
-30	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0				
-40		0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1					
-50	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0				
-60		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0					
-70	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0				
-80		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					
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0										

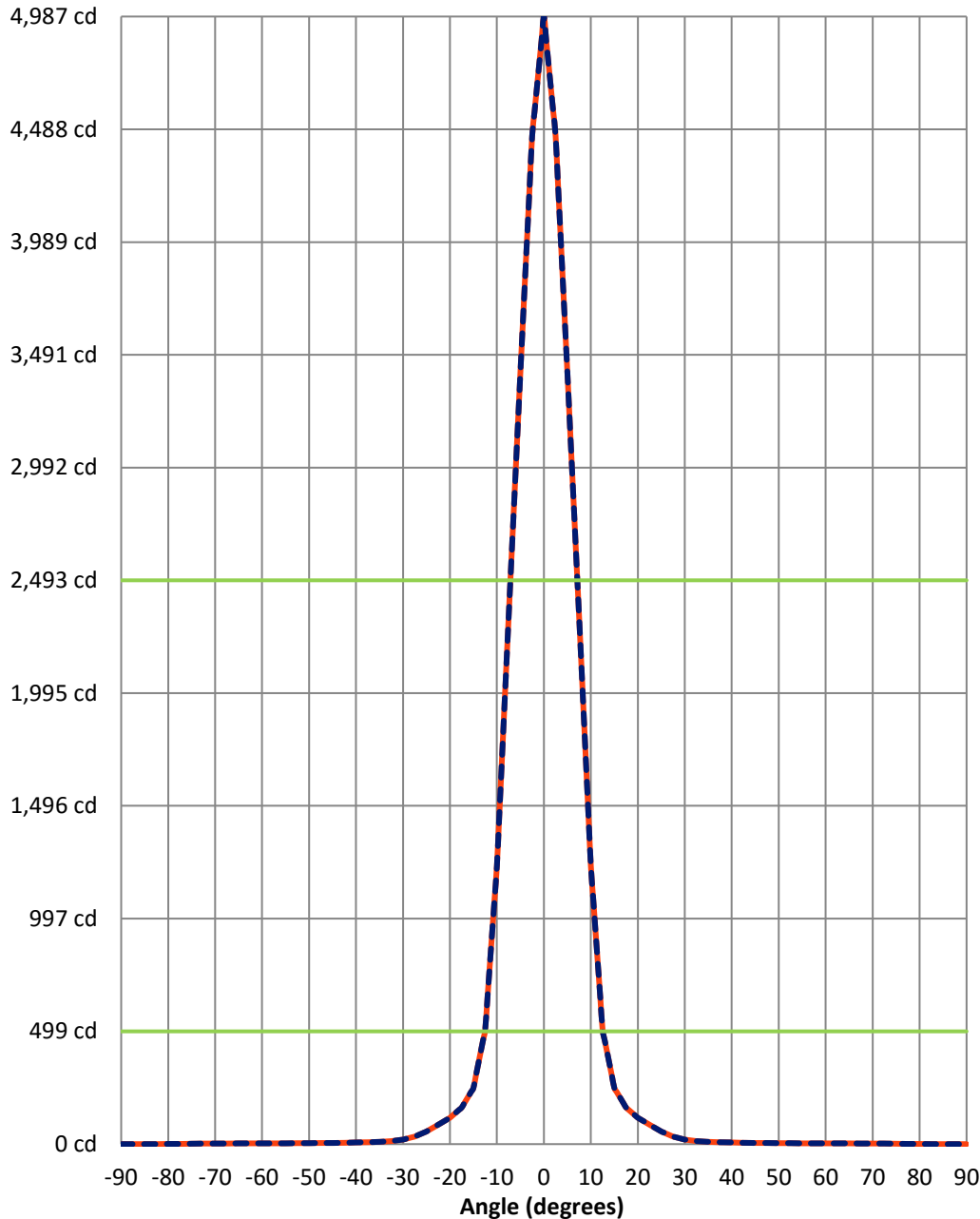
REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-L1-UNV

### Luminous Intensity Polar Plot



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

### Luminous Intensity Plot



**Beam:**  
 H Angle: 14.3°  
 V Angle: 14.3°  
 Lumens: 158  
 Efficiency: 40.0%

**Field:**  
 H Angle: 25.1°  
 V Angle: 25.1°  
 Lumens: 297  
 Efficiency: 75.2%

**Spill:**  
 Lumens: 98.1  
 Efficiency: 24.8%

— 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	1
65°	0	0	0	0	0	0	0	0	0	1	1
62.5°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	0	0	1	1	1
57.5°	0	0	0	0	0	0	0	1	1	1	1
55°	0	0	0	0	0	0	0	1	1	1	1
52.5°	0	0	0	0	0	0	1	1	1	1	2
50°	0	0	0	0	0	0	1	1	1	1	2
47.5°	0	0	0	0	0	0	1	1	1	2	2
45°	0	0	0	0	0	0	1	1	1	2	2
42.5°	0	0	0	0	0	1	1	1	2	2	3
40°	0	0	0	0	0	1	1	1	2	2	3
37.5°	0	0	0	0	0	1	1	1	2	3	3
35°	0	0	0	0	0	1	1	1	2	3	3
32.5°	0	0	0	0	0	1	1	2	2	3	3
30°	0	0	0	0	0	1	1	2	2	3	3
27.5°	0	0	0	0	0	1	1	2	3	3	3
25°	0	0	0	0	0	1	1	2	3	3	3
22.5°	0	0	0	0	1	1	1	2	3	3	3
20°	0	0	0	0	1	1	1	2	3	3	3
17.5°	0	0	0	0	1	1	1	2	3	3	3
15°	0	0	0	0	1	1	2	2	3	3	3
12.5°	0	0	0	0	1	1	2	2	3	3	3
10°	0	0	0	0	1	1	2	2	3	3	3
7.5°	0	0	0	0	1	1	2	2	3	3	3
5°	0	0	0	0	1	1	2	2	3	3	3
2.5°	0	0	0	0	1	1	2	2	3	3	3
0°	0	0	0	0	1	1	2	3	3	3	3
-2.5°	0	0	0	0	1	1	2	2	3	3	3
-5°	0	0	0	0	1	1	2	2	3	3	3
-7.5°	0	0	0	0	1	1	2	2	3	3	3
-10°	0	0	0	0	1	1	2	2	3	3	3
-12.5°	0	0	0	0	1	1	2	2	3	3	3
-15°	0	0	0	0	1	1	2	2	3	3	3
-17.5°	0	0	0	0	1	1	1	2	3	3	3
-20°	0	0	0	0	1	1	1	2	3	3	3



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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	1	1	1	2	3	3	3
-25°	0	0	0	0	0	1	1	2	3	3	3
-27.5°	0	0	0	0	0	1	1	2	3	3	3
-30°	0	0	0	0	0	1	1	2	2	3	3
-32.5°	0	0	0	0	0	1	1	2	2	3	3
-35°	0	0	0	0	0	1	1	1	2	3	3
-37.5°	0	0	0	0	0	1	1	1	2	3	3
-40°	0	0	0	0	0	1	1	1	2	2	3
-42.5°	0	0	0	0	0	1	1	1	2	2	3
-45°	0	0	0	0	0	0	1	1	1	2	2
-47.5°	0	0	0	0	0	0	1	1	1	2	2
-50°	0	0	0	0	0	0	1	1	1	1	2
-52.5°	0	0	0	0	0	0	1	1	1	1	2
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	1	1	1	1
-60°	0	0	0	0	0	0	0	0	1	1	1
-62.5°	0	0	0	0	0	0	0	0	1	1	1
-65°	0	0	0	0	0	0	0	0	0	1	1
-67.5°	0	0	0	0	0	0	0	0	0	0	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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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	1	1	1
75°	0	0	0	0	1	1	1	1	1	1	1
72.5°	0	0	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	2	2	2
67.5°	1	1	1	1	1	1	2	2	2	2	3
65°	1	1	1	1	2	2	2	2	3	3	3
62.5°	1	1	1	2	2	2	3	3	3	3	3
60°	1	2	2	2	3	3	3	3	3	3	3
57.5°	1	2	2	3	3	3	3	3	3	3	3
55°	2	2	3	3	3	3	3	3	3	3	3
52.5°	2	3	3	3	3	3	3	3	3	3	3
50°	2	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°	3	3	3	3	3	3	3	3	3	3	4
40°	3	3	3	3	3	3	3	3	3	4	4
37.5°	3	3	3	3	3	3	3	3	4	4	4
35°	3	3	3	3	3	3	3	3	4	4	4
32.5°	3	3	3	3	3	3	3	4	4	4	5
30°	3	3	3	3	3	3	4	4	4	5	5
27.5°	3	3	3	3	3	3	4	4	4	5	5
25°	3	3	3	3	3	4	4	4	5	5	5
22.5°	3	3	3	3	3	4	4	4	5	5	6
20°	3	3	3	3	3	4	4	5	5	5	6
17.5°	3	3	3	3	3	4	4	5	5	6	7
15°	3	3	3	3	4	4	4	5	5	6	8
12.5°	3	3	3	3	4	4	5	5	5	6	8
10°	3	3	3	3	4	4	5	5	5	7	8
7.5°	3	3	3	3	4	4	5	5	6	7	8
5°	3	3	3	3	4	4	5	5	6	7	8
2.5°	3	3	3	3	4	4	5	5	6	7	8
0°	3	3	3	3	4	4	5	5	6	8	8
-2.5°	3	3	3	3	4	4	5	5	6	7	8
-5°	3	3	3	3	4	4	5	5	6	7	8
-7.5°	3	3	3	3	4	4	5	5	6	7	8
-10°	3	3	3	3	4	4	5	5	5	7	8
-12.5°	3	3	3	3	4	4	5	5	5	6	8
-15°	3	3	3	3	4	4	4	5	5	6	8
-17.5°	3	3	3	3	3	4	4	5	5	6	7
-20°	3	3	3	3	3	4	4	5	5	5	6



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3	3	3	3	3	4	4	4	5	5	6
-25°	3	3	3	3	3	4	4	4	5	5	5
-27.5°	3	3	3	3	3	3	4	4	4	5	5
-30°	3	3	3	3	3	3	4	4	4	5	5
-32.5°	3	3	3	3	3	3	3	4	4	4	5
-35°	3	3	3	3	3	3	3	3	4	4	4
-37.5°	3	3	3	3	3	3	3	3	4	4	4
-40°	3	3	3	3	3	3	3	3	3	4	4
-42.5°	3	3	3	3	3	3	3	3	3	3	4
-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°	2	3	3	3	3	3	3	3	3	3	3
-52.5°	2	3	3	3	3	3	3	3	3	3	3
-55°	2	2	3	3	3	3	3	3	3	3	3
-57.5°	1	2	2	3	3	3	3	3	3	3	3
-60°	1	2	2	2	3	3	3	3	3	3	3
-62.5°	1	1	1	2	2	2	3	3	3	3	3
-65°	1	1	1	1	2	2	2	2	3	3	3
-67.5°	1	1	1	1	1	1	2	2	2	2	3
-70°	1	1	1	1	1	1	1	1	2	2	2
-72.5°	0	0	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	1	1	1	1	1	1	1
-77.5°	0	0	0	0	0	0	0	0	1	1	1
-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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	2	2	2
72.5°	1	2	2	2	2	2	2	2	2	2	2
70°	2	2	2	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	3	3	3	3	3
65°	3	3	3	3	3	3	3	3	3	3	3
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	3	4	4	4
50°	3	3	3	3	4	4	4	4	4	4	4
47.5°	3	3	4	4	4	4	4	4	4	5	5
45°	3	4	4	4	4	4	5	5	5	5	5
42.5°	4	4	4	4	5	5	5	5	5	5	5
40°	4	4	5	5	5	5	5	6	6	6	7
37.5°	4	5	5	5	5	6	6	7	8	8	8
35°	5	5	5	6	6	7	8	8	8	9	9
32.5°	5	5	6	6	7	8	8	9	10	11	12
30°	5	6	7	8	8	9	10	11	12	14	16
27.5°	6	6	8	8	9	10	12	14	17	20	25
25°	6	7	8	9	10	12	16	19	26	32	40
22.5°	7	8	9	10	12	16	21	29	39	51	62
20°	8	8	10	12	16	21	31	44	58	74	89
17.5°	8	9	11	14	19	29	44	61	81	99	116
15°	8	10	12	17	26	39	58	81	103	127	153
12.5°	9	11	14	20	32	51	74	99	127	160	215
10°	9	12	16	25	40	62	89	116	153	215	306
7.5°	10	12	18	28	47	72	101	135	188	277	510
5°	10	13	19	31	52	80	109	149	221	371	818
2.5°	10	13	20	33	55	84	115	159	241	463	1119
0°	10	13	20	33	56	86	117	162	248	506	1231
-2.5°	10	13	20	33	55	84	115	159	241	463	1119
-5°	10	13	19	31	52	80	109	149	221	371	818
-7.5°	10	12	18	28	47	72	101	135	188	277	510
-10°	9	12	16	25	40	62	89	116	153	215	306
-12.5°	9	11	14	20	32	51	74	99	127	160	215
-15°	8	10	12	17	26	39	58	81	103	127	153
-17.5°	8	9	11	14	19	29	44	61	81	99	116
-20°	8	8	10	12	16	21	31	44	58	74	89



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	8	9	10	12	16	21	29	39	51	62
-25°	6	7	8	9	10	12	16	19	26	32	40
-27.5°	6	6	8	8	9	10	12	14	17	20	25
-30°	5	6	7	8	8	9	10	11	12	14	16
-32.5°	5	5	6	6	7	8	8	9	10	11	12
-35°	5	5	5	6	6	7	8	8	8	9	9
-37.5°	4	5	5	5	5	6	6	7	8	8	8
-40°	4	4	5	5	5	5	5	6	6	6	7
-42.5°	4	4	4	4	5	5	5	5	5	5	5
-45°	3	4	4	4	4	4	5	5	5	5	5
-47.5°	3	3	4	4	4	4	4	4	4	5	5
-50°	3	3	3	3	4	4	4	4	4	4	4
-52.5°	3	3	3	3	3	3	3	3	4	4	4
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-65°	3	3	3	3	3	3	3	3	3	3	3
-67.5°	3	3	3	3	3	3	3	3	3	3	3
-70°	2	2	2	3	3	3	3	3	3	3	3
-72.5°	1	2	2	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	1	1	1	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	0	0	0	0	0	1	1	1	1	1	1
-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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	2	2	2	2	2	2	2	2	2	2	1
72.5°	2	2	2	3	2	2	2	2	2	2	2
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	3	3	3	3	3
65°	3	3	3	3	3	3	3	3	3	3	3
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	4	4	4	4	4	4	4	4	4	4	3
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	5	5	5	5	5	5	5	5	5	4	4
45°	5	5	5	5	5	5	5	5	5	5	5
42.5°	6	6	6	6	6	6	6	5	5	5	5
40°	7	7	7	8	7	7	7	7	6	6	6
37.5°	8	8	8	8	8	8	8	8	8	8	7
35°	10	10	10	10	10	10	10	9	9	8	8
32.5°	12	13	13	13	13	13	12	12	11	10	9
30°	18	19	20	20	20	19	18	16	14	12	11
27.5°	28	31	33	33	33	31	28	25	20	17	14
25°	47	52	55	56	55	52	47	40	32	26	19
22.5°	72	80	84	86	84	80	72	62	51	39	29
20°	101	109	115	117	115	109	101	89	74	58	44
17.5°	135	149	159	162	159	149	135	116	99	81	61
15°	188	221	241	248	241	221	188	153	127	103	81
12.5°	277	371	463	506	463	371	277	215	160	127	99
10°	510	818	1119	1231	1119	818	510	306	215	153	116
7.5°	1013	1654	2151	2333	2151	1654	1013	510	277	188	135
5°	1654	2528	3164	3414	3164	2528	1654	818	371	221	149
2.5°	2151	3164	4043	4458	4043	3164	2151	1119	463	241	159
0°	2333	3414	4458	4987	4458	3414	2333	1231	506	248	162
-2.5°	2151	3164	4043	4458	4043	3164	2151	1119	463	241	159
-5°	1654	2528	3164	3414	3164	2528	1654	818	371	221	149
-7.5°	1013	1654	2151	2333	2151	1654	1013	510	277	188	135
-10°	510	818	1119	1231	1119	818	510	306	215	153	116
-12.5°	277	371	463	506	463	371	277	215	160	127	99
-15°	188	221	241	248	241	221	188	153	127	103	81
-17.5°	135	149	159	162	159	149	135	116	99	81	61
-20°	101	109	115	117	115	109	101	89	74	58	44



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	72	80	84	86	84	80	72	62	51	39	29
-25°	47	52	55	56	55	52	47	40	32	26	19
-27.5°	28	31	33	33	33	31	28	25	20	17	14
-30°	18	19	20	20	20	19	18	16	14	12	11
-32.5°	12	13	13	13	13	13	12	12	11	10	9
-35°	10	10	10	10	10	10	10	9	9	8	8
-37.5°	8	8	8	8	8	8	8	8	8	8	7
-40°	7	7	7	8	7	7	7	7	6	6	6
-42.5°	6	6	6	6	6	6	6	5	5	5	5
-45°	5	5	5	5	5	5	5	5	5	5	5
-47.5°	5	5	5	5	5	5	5	5	5	4	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	4	3
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-65°	3	3	3	3	3	3	3	3	3	3	3
-67.5°	3	3	3	3	3	3	3	3	3	3	3
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	2	2	2	3	2	2	2	2	2	2	2
-75°	2	2	2	2	2	2	2	2	2	2	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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°	1	1	0	0	0	0	0	0	0	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	2	2	1	1	1	1	1
70°	3	3	3	3	2	2	2	2	2	2	1
67.5°	3	3	3	3	3	3	3	3	2	2	2
65°	3	3	3	3	3	3	3	3	3	3	2
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	4	4	4	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	3	3	3	3	3	3
45°	5	4	4	4	4	4	3	3	3	3	3
42.5°	5	5	5	4	4	4	4	4	3	3	3
40°	5	5	5	5	5	4	4	4	4	3	3
37.5°	6	6	5	5	5	5	4	4	4	4	3
35°	8	7	6	6	5	5	5	4	4	4	3
32.5°	8	8	7	6	6	5	5	5	4	4	4
30°	10	9	8	8	7	6	5	5	5	4	4
27.5°	12	10	9	8	8	6	6	5	5	4	4
25°	16	12	10	9	8	7	6	5	5	5	4
22.5°	21	16	12	10	9	8	7	6	5	5	4
20°	31	21	16	12	10	8	8	6	5	5	5
17.5°	44	29	19	14	11	9	8	7	6	5	5
15°	58	39	26	17	12	10	8	8	6	5	5
12.5°	74	51	32	20	14	11	9	8	6	5	5
10°	89	62	40	25	16	12	9	8	7	5	5
7.5°	101	72	47	28	18	12	10	8	7	6	5
5°	109	80	52	31	19	13	10	8	7	6	5
2.5°	115	84	55	33	20	13	10	8	7	6	5
0°	117	86	56	33	20	13	10	8	8	6	5
-2.5°	115	84	55	33	20	13	10	8	7	6	5
-5°	109	80	52	31	19	13	10	8	7	6	5
-7.5°	101	72	47	28	18	12	10	8	7	6	5
-10°	89	62	40	25	16	12	9	8	7	5	5
-12.5°	74	51	32	20	14	11	9	8	6	5	5
-15°	58	39	26	17	12	10	8	8	6	5	5
-17.5°	44	29	19	14	11	9	8	7	6	5	5
-20°	31	21	16	12	10	8	8	6	5	5	5



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)

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

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21	16	12	10	9	8	7	6	5	5	4
-25°	16	12	10	9	8	7	6	5	5	5	4
-27.5°	12	10	9	8	8	6	6	5	5	4	4
-30°	10	9	8	8	7	6	5	5	5	4	4
-32.5°	8	8	7	6	6	5	5	5	4	4	4
-35°	8	7	6	6	5	5	5	4	4	4	3
-37.5°	6	6	5	5	5	5	4	4	4	4	3
-40°	5	5	5	5	5	4	4	4	4	3	3
-42.5°	5	5	5	4	4	4	4	4	3	3	3
-45°	5	4	4	4	4	4	3	3	3	3	3
-47.5°	4	4	4	4	4	3	3	3	3	3	3
-50°	4	4	4	3	3	3	3	3	3	3	3
-52.5°	3	3	3	3	3	3	3	3	3	3	3
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-65°	3	3	3	3	3	3	3	3	3	3	2
-67.5°	3	3	3	3	3	3	3	3	2	2	2
-70°	3	3	3	3	2	2	2	2	2	2	1
-72.5°	2	2	2	2	2	2	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	0
-80°	1	1	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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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°	1	1	1	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	2	1	1	1	1	1	1	1	0	0	0
65°	2	2	2	1	1	1	1	1	1	0	0
62.5°	3	2	2	2	1	1	1	1	1	1	0
60°	3	3	3	2	2	2	1	1	1	1	0
57.5°	3	3	3	3	2	2	1	1	1	1	1
55°	3	3	3	3	3	2	2	1	1	1	1
52.5°	3	3	3	3	3	3	2	2	1	1	1
50°	3	3	3	3	3	3	2	2	1	1	1
47.5°	3	3	3	3	3	3	3	2	2	1	1
45°	3	3	3	3	3	3	3	2	2	1	1
42.5°	3	3	3	3	3	3	3	3	2	2	1
40°	3	3	3	3	3	3	3	3	2	2	1
37.5°	3	3	3	3	3	3	3	3	3	2	1
35°	3	3	3	3	3	3	3	3	3	2	1
32.5°	3	3	3	3	3	3	3	3	3	2	2
30°	4	3	3	3	3	3	3	3	3	2	2
27.5°	4	3	3	3	3	3	3	3	3	3	2
25°	4	4	3	3	3	3	3	3	3	3	2
22.5°	4	4	3	3	3	3	3	3	3	3	2
20°	4	4	3	3	3	3	3	3	3	3	2
17.5°	4	4	3	3	3	3	3	3	3	3	2
15°	4	4	4	3	3	3	3	3	3	3	2
12.5°	5	4	4	3	3	3	3	3	3	3	2
10°	5	4	4	3	3	3	3	3	3	3	2
7.5°	5	4	4	3	3	3	3	3	3	3	2
5°	5	4	4	3	3	3	3	3	3	3	2
2.5°	5	4	4	3	3	3	3	3	3	3	2
0°	5	4	4	3	3	3	3	3	3	3	3
-2.5°	5	4	4	3	3	3	3	3	3	3	2
-5°	5	4	4	3	3	3	3	3	3	3	2
-7.5°	5	4	4	3	3	3	3	3	3	3	2
-10°	5	4	4	3	3	3	3	3	3	3	2
-12.5°	5	4	4	3	3	3	3	3	3	3	2
-15°	4	4	4	3	3	3	3	3	3	3	2
-17.5°	4	4	3	3	3	3	3	3	3	3	2
-20°	4	4	3	3	3	3	3	3	3	3	2



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)

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

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4	4	3	3	3	3	3	3	3	3	2
-25°	4	4	3	3	3	3	3	3	3	3	2
-27.5°	4	3	3	3	3	3	3	3	3	3	2
-30°	4	3	3	3	3	3	3	3	3	2	2
-32.5°	3	3	3	3	3	3	3	3	3	2	2
-35°	3	3	3	3	3	3	3	3	3	2	1
-37.5°	3	3	3	3	3	3	3	3	3	2	1
-40°	3	3	3	3	3	3	3	3	2	2	1
-42.5°	3	3	3	3	3	3	3	3	2	2	1
-45°	3	3	3	3	3	3	3	2	2	1	1
-47.5°	3	3	3	3	3	3	3	2	2	1	1
-50°	3	3	3	3	3	3	2	2	1	1	1
-52.5°	3	3	3	3	3	3	2	2	1	1	1
-55°	3	3	3	3	3	2	2	1	1	1	1
-57.5°	3	3	3	3	2	2	1	1	1	1	1
-60°	3	3	3	2	2	2	1	1	1	1	0
-62.5°	3	2	2	2	1	1	1	1	1	1	0
-65°	2	2	2	1	1	1	1	1	1	0	0
-67.5°	2	1	1	1	1	1	1	1	0	0	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	1	1	1	1	0	0	0	0	0	0
-75°	1	1	1	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: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4097-S-WT-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°	1	0	0	0	0	0	0
50°	1	0	0	0	0	0	0
47.5°	1	0	0	0	0	0	0
45°	1	0	0	0	0	0	0
42.5°	1	1	0	0	0	0	0
40°	1	1	0	0	0	0	0
37.5°	1	1	0	0	0	0	0
35°	1	1	0	0	0	0	0
32.5°	1	1	0	0	0	0	0
30°	1	1	0	0	0	0	0
27.5°	1	1	0	0	0	0	0
25°	1	1	0	0	0	0	0
22.5°	1	1	1	0	0	0	0
20°	1	1	1	0	0	0	0
17.5°	1	1	1	0	0	0	0
15°	2	1	1	0	0	0	0
12.5°	2	1	1	0	0	0	0
10°	2	1	1	0	0	0	0
7.5°	2	1	1	0	0	0	0
5°	2	1	1	0	0	0	0
2.5°	2	1	1	0	0	0	0
0°	2	1	1	0	0	0	0
-2.5°	2	1	1	0	0	0	0
-5°	2	1	1	0	0	0	0
-7.5°	2	1	1	0	0	0	0
-10°	2	1	1	0	0	0	0
-12.5°	2	1	1	0	0	0	0
-15°	2	1	1	0	0	0	0
-17.5°	1	1	1	0	0	0	0
-20°	1	1	1	0	0	0	0



REPORT NUMBER: P220376 (CONVERTED FROM TYPE C PHOTOMETRY)

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

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	1	1	0	0	0	0
-25°	1	1	0	0	0	0	0
-27.5°	1	1	0	0	0	0	0
-30°	1	1	0	0	0	0	0
-32.5°	1	1	0	0	0	0	0
-35°	1	1	0	0	0	0	0
-37.5°	1	1	0	0	0	0	0
-40°	1	1	0	0	0	0	0
-42.5°	1	1	0	0	0	0	0
-45°	1	0	0	0	0	0	0
-47.5°	1	0	0	0	0	0	0
-50°	1	0	0	0	0	0	0
-52.5°	1	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)