

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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29419)  
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-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	829.3 lumens	Max Intensity:	1660.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	82.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.5°H x 39.3°V	Field Angle (10%):	65.2°H x 64.7°V
Beam Lumens:	498.9 lumens	Field Lumens:	751.1 lumens
Beam Efficiency:	60.2%	Field Efficiency:	90.6%

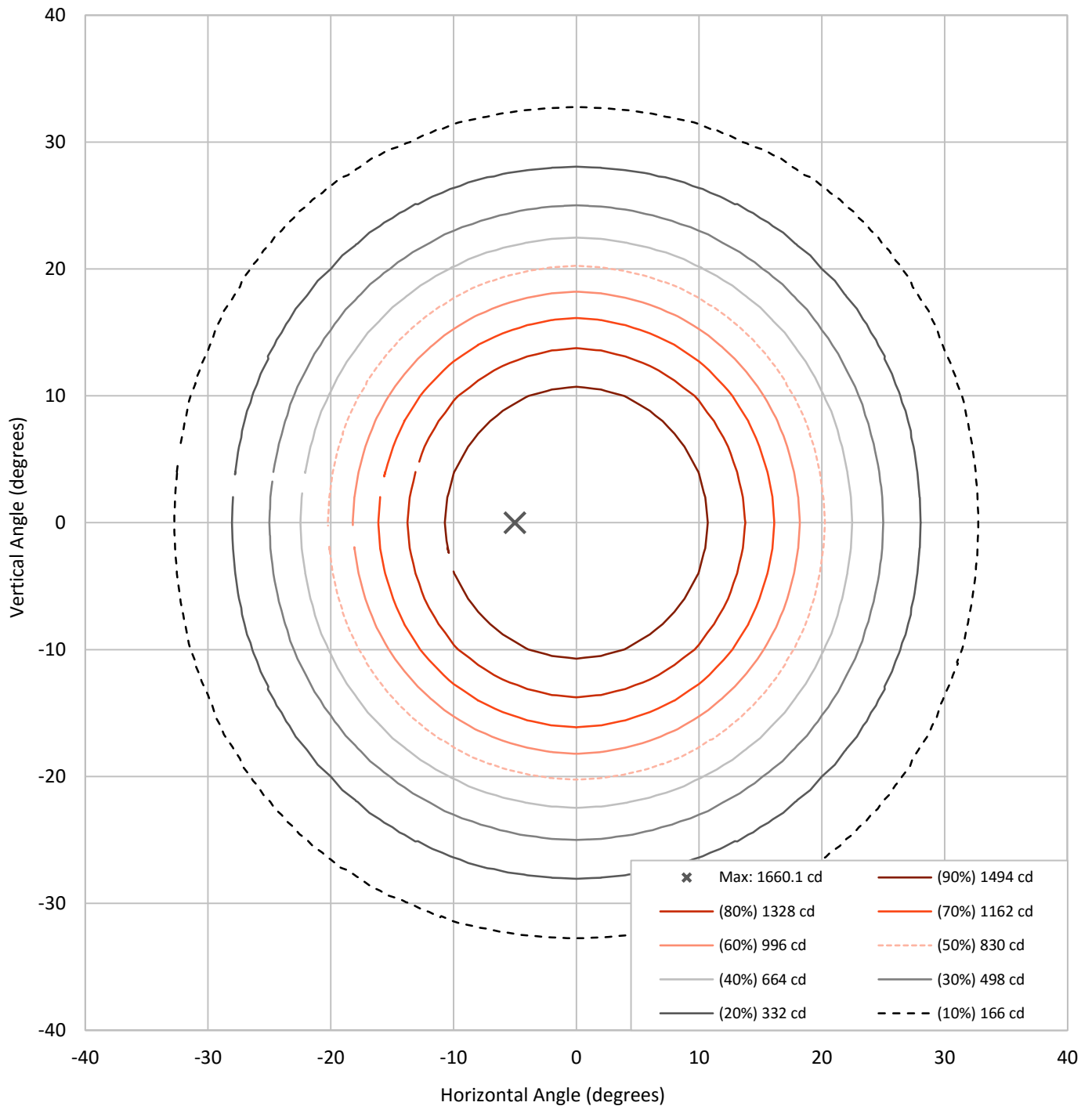
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)

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

### Iso-Candela Plot





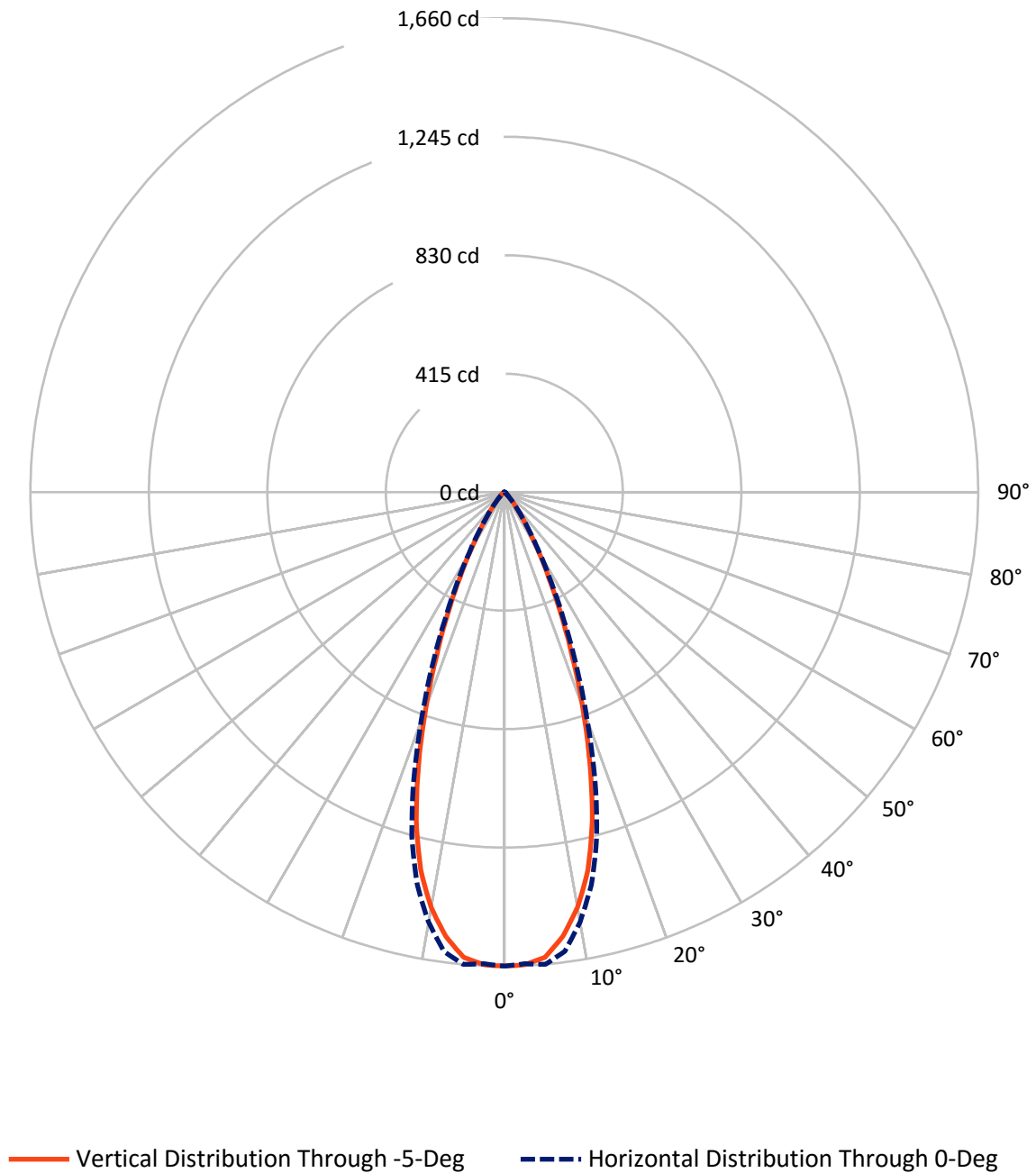
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-WT-L1-UNV

### Lumen Table

90																			
80	0.0	0.0		0.1	0.2		0.2	0.2		0.1	0.0		0.0						
70																			
60	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	0.0			
50		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
40	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.7	0.5	0.3	0.2	0.1	0.1	0.0	0.0			
30		0.0	0.1	0.2	0.4	1.1	2.4	3.6	3.6	2.4	1.1	0.4	0.2	0.1	0.0				
20	0.0	0.0	0.1	0.3	1.0	3.6	9.0	14.4	14.4	9.0	3.6	1.0	0.3	0.1	0.0	0.0			
10		0.1	0.1	0.4	2.1	8.5	22.4	34.9	34.9	22.4	8.5	2.1	0.4	0.1	0.1				
0	0.0	0.1	0.1	0.5	3.0	13.2	33.9	48.0	48.0	33.9	13.2	3.0	0.5	0.1	0.1	0.0			
-10		0.1	0.1	0.5	3.0	13.2	33.9	48.0	48.0	33.9	13.2	3.0	0.5	0.1	0.1				
-20	0.0	0.1	0.1	0.4	2.1	8.5	22.4	34.9	34.9	22.4	8.5	2.1	0.4	0.1	0.1	0.0			
-30		0.0	0.1	0.3	1.0	3.6	9.0	14.4	14.4	9.0	3.6	1.0	0.3	0.1	0.0				
-40	0.0	0.0	0.1	0.2	0.4	1.1	2.4	3.6	3.6	2.4	1.1	0.4	0.2	0.1	0.0	0.0			
-50		0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.7	0.5	0.3	0.2	0.1	0.1	0.0				
-60	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
-70		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				
-80	0.0	0.0		0.1	0.2		0.2	0.2		0.1	0.0		0.0						
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

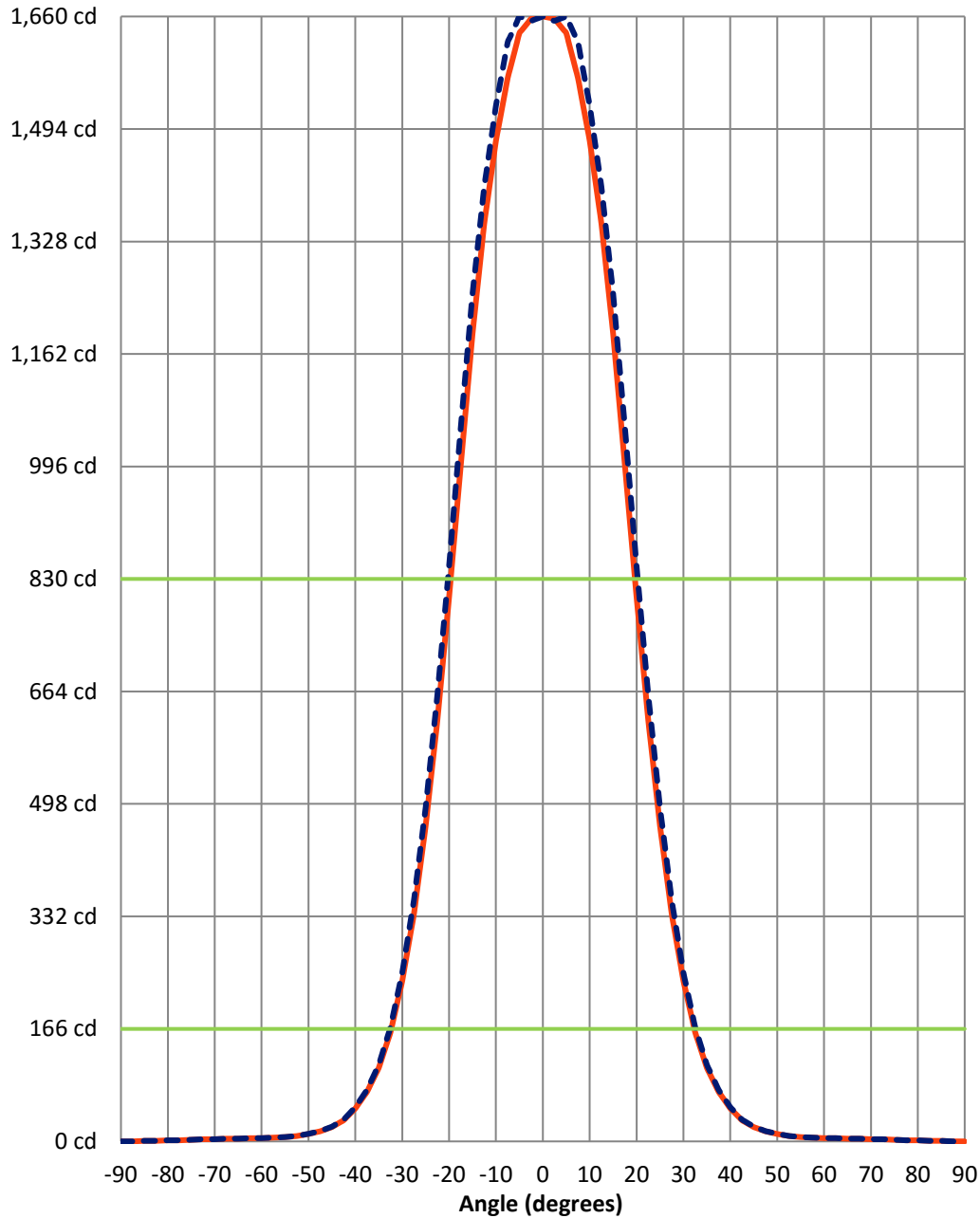
REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-WT-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 40.5°  
V Angle: 39.3°  
Lumens: 498.9  
Efficiency: 60.2%

**Field:**  
H Angle: 65.2°  
V Angle: 64.7°  
Lumens: 751.1  
Efficiency: 90.6%

**Spill:**  
Lumens: 78.2  
Efficiency: 9.4%

— Vertical Distribution through -5-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	1
77.5°	0	0	0	0	0	0	0	0	1	1	1
75°	0	0	0	0	0	0	0	1	1	1	1
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	0	0	0	1	1	1	1	1	1
67.5°	0	0	0	0	0	1	1	1	1	1	1
65°	0	0	0	0	1	1	1	1	1	1	2
62.5°	0	0	0	0	1	1	1	1	1	2	2
60°	0	0	0	0	1	1	1	1	2	2	2
57.5°	0	0	0	0	1	1	1	1	2	2	2
55°	0	0	0	1	1	1	1	2	2	2	2
52.5°	0	0	0	1	1	1	1	2	2	2	2
50°	0	0	0	1	1	1	1	2	2	2	3
47.5°	0	0	0	1	1	1	2	2	2	2	3
45°	0	0	0	1	1	1	2	2	2	3	3
42.5°	0	0	0	1	1	1	2	2	2	3	3
40°	0	0	0	1	1	1	2	2	2	3	3
37.5°	0	0	0	1	1	2	2	2	3	3	3
35°	0	0	1	1	1	2	2	2	3	3	3
32.5°	0	0	1	1	1	2	2	2	3	3	3
30°	0	0	1	1	1	2	2	2	3	3	4
27.5°	0	0	1	1	1	2	2	3	3	3	4
25°	0	0	1	1	1	2	2	3	3	3	4
22.5°	0	0	1	1	1	2	2	3	3	3	4
20°	0	0	1	1	1	2	2	3	3	4	4
17.5°	0	0	1	1	1	2	2	3	3	4	4
15°	0	0	1	1	1	2	2	3	3	4	4
12.5°	0	0	1	1	2	2	2	3	3	4	4
10°	0	0	1	1	2	2	2	3	3	4	4
7.5°	0	0	1	1	2	2	2	3	3	4	4
5°	0	0	1	1	2	2	2	3	3	4	4
2.5°	0	0	1	1	2	2	2	3	3	4	4
0°	0	0	1	1	2	2	2	3	3	4	4
-2.5°	0	0	1	1	2	2	2	3	3	4	4
-5°	0	0	1	1	2	2	2	3	3	4	4
-7.5°	0	0	1	1	2	2	2	3	3	4	4
-10°	0	0	1	1	2	2	2	3	3	4	4
-12.5°	0	0	1	1	2	2	2	3	3	4	4
-15°	0	0	1	1	1	2	2	3	3	4	4
-17.5°	0	0	1	1	1	2	2	3	3	4	4
-20°	0	0	1	1	1	2	2	3	3	4	4



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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	1	1	1	2	2	3	3	3	4
-25°	0	0	1	1	1	2	2	3	3	3	4
-27.5°	0	0	1	1	1	2	2	3	3	3	4
-30°	0	0	1	1	1	2	2	2	3	3	4
-32.5°	0	0	1	1	1	2	2	2	3	3	3
-35°	0	0	1	1	1	2	2	2	3	3	3
-37.5°	0	0	0	1	1	2	2	2	3	3	3
-40°	0	0	0	1	1	1	2	2	2	3	3
-42.5°	0	0	0	1	1	1	2	2	2	3	3
-45°	0	0	0	1	1	1	2	2	2	3	3
-47.5°	0	0	0	1	1	1	2	2	2	2	3
-50°	0	0	0	1	1	1	1	2	2	2	3
-52.5°	0	0	0	1	1	1	1	2	2	2	2
-55°	0	0	0	1	1	1	1	2	2	2	2
-57.5°	0	0	0	0	1	1	1	1	2	2	2
-60°	0	0	0	0	1	1	1	1	2	2	2
-62.5°	0	0	0	0	1	1	1	1	1	2	2
-65°	0	0	0	0	1	1	1	1	1	1	2
-67.5°	0	0	0	0	0	1	1	1	1	1	1
-70°	0	0	0	0	0	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-75°	0	0	0	0	0	0	0	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	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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	2
75°	1	1	1	1	1	1	2	2	2	2	2
72.5°	1	1	1	2	2	2	2	2	2	2	2
70°	1	2	2	2	2	2	2	2	2	2	3
67.5°	2	2	2	2	2	2	2	3	3	3	3
65°	2	2	2	2	2	3	3	3	3	3	3
62.5°	2	2	2	3	3	3	3	3	3	3	4
60°	2	2	3	3	3	3	3	3	4	4	4
57.5°	2	3	3	3	3	3	4	4	4	4	4
55°	3	3	3	3	3	4	4	4	4	4	5
52.5°	3	3	3	3	4	4	4	4	5	5	5
50°	3	3	3	4	4	4	4	5	5	5	5
47.5°	3	3	4	4	4	4	5	5	5	5	6
45°	3	3	4	4	4	5	5	5	5	6	6
42.5°	3	4	4	4	5	5	5	5	6	6	7
40°	3	4	4	4	5	5	5	6	6	7	8
37.5°	4	4	4	5	5	5	6	6	7	8	10
35°	4	4	4	5	5	5	6	7	8	10	12
32.5°	4	4	5	5	5	6	6	7	9	12	14
30°	4	4	5	5	5	6	7	8	11	14	18
27.5°	4	4	5	5	6	6	8	10	13	16	21
25°	4	5	5	5	6	7	8	11	14	19	26
22.5°	4	5	5	5	6	7	9	12	16	22	31
20°	4	5	5	6	6	8	10	14	19	26	37
17.5°	4	5	5	6	7	8	11	15	21	30	44
15°	4	5	5	6	7	9	12	17	23	34	51
12.5°	5	5	5	6	7	10	13	18	26	39	58
10°	5	5	5	6	8	10	14	19	28	43	65
7.5°	5	5	6	6	8	11	14	20	30	46	70
5°	5	5	6	6	8	11	15	21	31	49	73
2.5°	5	5	6	6	8	11	15	22	32	50	75
0°	5	5	6	6	8	11	15	22	32	51	76
-2.5°	5	5	6	6	8	11	15	22	32	50	75
-5°	5	5	6	6	8	11	15	21	31	49	73
-7.5°	5	5	6	6	8	11	14	20	30	46	70
-10°	5	5	5	6	8	10	14	19	28	43	65
-12.5°	5	5	5	6	7	10	13	18	26	39	58
-15°	4	5	5	6	7	9	12	17	23	34	51
-17.5°	4	5	5	6	7	8	11	15	21	30	44
-20°	4	5	5	6	6	8	10	14	19	26	37



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	4	5	5	5	6	7	9	12	16	22	31
-25°	4	5	5	5	6	7	8	11	14	19	26
-27.5°	4	4	5	5	6	6	8	10	13	16	21
-30°	4	4	5	5	5	6	7	8	11	14	18
-32.5°	4	4	5	5	5	6	6	7	9	12	14
-35°	4	4	4	5	5	5	6	7	8	10	12
-37.5°	4	4	4	5	5	5	6	6	7	8	10
-40°	3	4	4	4	5	5	5	6	6	7	8
-42.5°	3	4	4	4	5	5	5	5	6	6	7
-45°	3	3	4	4	4	5	5	5	5	6	6
-47.5°	3	3	4	4	4	4	5	5	5	5	6
-50°	3	3	3	4	4	4	4	5	5	5	5
-52.5°	3	3	3	3	4	4	4	4	5	5	5
-55°	3	3	3	3	3	4	4	4	4	4	5
-57.5°	2	3	3	3	3	3	4	4	4	4	4
-60°	2	2	3	3	3	3	3	3	4	4	4
-62.5°	2	2	2	3	3	3	3	3	3	3	4
-65°	2	2	2	2	2	3	3	3	3	3	3
-67.5°	2	2	2	2	2	2	2	3	3	3	3
-70°	1	2	2	2	2	2	2	2	2	2	3
-72.5°	1	1	1	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	1	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	1	2
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	0	1	1	1	1	1	1	1	1
-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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	4	4	4	4	4
65°	3	3	4	4	4	4	4	4	4	4	4
62.5°	4	4	4	4	4	4	4	4	4	5	5
60°	4	4	4	4	5	5	5	5	5	5	5
57.5°	4	5	5	5	5	5	5	5	5	5	5
55°	5	5	5	5	5	5	6	6	6	6	6
52.5°	5	5	5	6	6	6	6	7	7	7	8
50°	5	6	6	6	7	7	8	8	9	10	10
47.5°	6	6	7	8	8	9	10	11	12	13	14
45°	7	7	8	10	11	12	14	15	17	18	19
42.5°	8	9	11	13	14	16	19	21	23	26	28
40°	10	12	14	16	19	22	26	30	34	39	43
37.5°	12	14	18	21	26	31	37	44	51	58	65
35°	15	18	22	28	35	44	54	65	74	85	95
32.5°	18	23	30	39	49	63	75	92	107	123	139
30°	22	30	40	52	68	86	105	128	152	176	201
27.5°	28	39	52	70	91	114	145	177	215	249	283
25°	35	49	68	91	118	154	197	243	292	343	391
22.5°	44	63	86	114	154	204	258	322	390	459	523
20°	54	75	105	145	197	258	332	416	504	592	675
17.5°	65	92	128	177	243	322	416	521	630	741	843
15°	74	107	152	215	292	390	504	630	764	896	1016
12.5°	85	123	176	249	343	459	592	741	896	1045	1179
10°	95	139	201	283	391	523	675	843	1016	1179	1313
7.5°	103	152	222	313	432	578	748	933	1118	1283	1410
5°	109	161	237	336	466	621	803	998	1192	1354	1477
2.5°	112	167	246	351	486	649	837	1040	1236	1395	1515
0°	113	169	249	356	493	659	849	1054	1251	1409	1529
-2.5°	112	167	246	351	486	649	837	1040	1236	1395	1515
-5°	109	161	237	336	466	621	803	998	1192	1354	1477
-7.5°	103	152	222	313	432	578	748	933	1118	1283	1410
-10°	95	139	201	283	391	523	675	843	1016	1179	1313
-12.5°	85	123	176	249	343	459	592	741	896	1045	1179
-15°	74	107	152	215	292	390	504	630	764	896	1016
-17.5°	65	92	128	177	243	322	416	521	630	741	843
-20°	54	75	105	145	197	258	332	416	504	592	675



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	44	63	86	114	154	204	258	322	390	459	523
-25°	35	49	68	91	118	154	197	243	292	343	391
-27.5°	28	39	52	70	91	114	145	177	215	249	283
-30°	22	30	40	52	68	86	105	128	152	176	201
-32.5°	18	23	30	39	49	63	75	92	107	123	139
-35°	15	18	22	28	35	44	54	65	74	85	95
-37.5°	12	14	18	21	26	31	37	44	51	58	65
-40°	10	12	14	16	19	22	26	30	34	39	43
-42.5°	8	9	11	13	14	16	19	21	23	26	28
-45°	7	7	8	10	11	12	14	15	17	18	19
-47.5°	6	6	7	8	8	9	10	11	12	13	14
-50°	5	6	6	6	7	7	8	8	9	10	10
-52.5°	5	5	5	6	6	6	6	7	7	7	8
-55°	5	5	5	5	5	5	6	6	6	6	6
-57.5°	4	5	5	5	5	5	5	5	5	5	5
-60°	4	4	4	4	5	5	5	5	5	5	5
-62.5°	4	4	4	4	4	4	4	4	4	5	5
-65°	3	3	4	4	4	4	4	4	4	4	4
-67.5°	3	3	3	3	3	3	4	4	4	4	4
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	2	2	2	3	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	1	1	1	1	1	1	2	2
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	2	2	2	2	2	2	2	2	1	1
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	4	4	4	4	4	4	4	4	4	4	4
65°	4	4	4	4	4	4	4	4	4	4	4
62.5°	5	5	5	5	5	5	5	5	5	4	4
60°	5	5	5	5	5	5	5	5	5	5	5
57.5°	6	6	6	6	6	6	6	5	5	5	5
55°	6	6	6	6	6	6	6	6	6	6	6
52.5°	8	8	8	8	8	8	8	8	7	7	7
50°	11	11	11	11	11	11	11	10	10	9	8
47.5°	14	15	15	15	15	15	14	14	13	12	11
45°	20	21	22	22	22	21	20	19	18	17	15
42.5°	30	31	32	32	32	31	30	28	26	23	21
40°	46	49	50	51	50	49	46	43	39	34	30
37.5°	70	73	75	76	75	73	70	65	58	51	44
35°	103	109	112	113	112	109	103	95	85	74	65
32.5°	152	161	167	169	167	161	152	139	123	107	92
30°	222	237	246	249	246	237	222	201	176	152	128
27.5°	313	336	351	356	351	336	313	283	249	215	177
25°	432	466	486	493	486	466	432	391	343	292	243
22.5°	578	621	649	659	649	621	578	523	459	390	322
20°	748	803	837	849	837	803	748	675	592	504	416
17.5°	933	998	1040	1054	1040	998	933	843	741	630	521
15°	1118	1192	1236	1251	1236	1192	1118	1016	896	764	630
12.5°	1283	1354	1395	1409	1395	1354	1283	1179	1045	896	741
10°	1410	1477	1515	1529	1515	1477	1410	1313	1179	1016	843
7.5°	1503	1569	1609	1622	1609	1569	1503	1410	1283	1118	933
5°	1569	1636	1657	1660	1657	1636	1569	1477	1354	1192	998
2.5°	1609	1657	1658	1654	1658	1657	1609	1515	1395	1236	1040
0°	1622	1660	1654	1660	1654	1660	1622	1529	1409	1251	1054
-2.5°	1609	1657	1658	1654	1658	1657	1609	1515	1395	1236	1040
-5°	1569	1636	1657	1660	1657	1636	1569	1477	1354	1192	998
-7.5°	1503	1569	1609	1622	1609	1569	1503	1410	1283	1118	933
-10°	1410	1477	1515	1529	1515	1477	1410	1313	1179	1016	843
-12.5°	1283	1354	1395	1409	1395	1354	1283	1179	1045	896	741
-15°	1118	1192	1236	1251	1236	1192	1118	1016	896	764	630
-17.5°	933	998	1040	1054	1040	998	933	843	741	630	521
-20°	748	803	837	849	837	803	748	675	592	504	416



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	578	621	649	659	649	621	578	523	459	390	322
-25°	432	466	486	493	486	466	432	391	343	292	243
-27.5°	313	336	351	356	351	336	313	283	249	215	177
-30°	222	237	246	249	246	237	222	201	176	152	128
-32.5°	152	161	167	169	167	161	152	139	123	107	92
-35°	103	109	112	113	112	109	103	95	85	74	65
-37.5°	70	73	75	76	75	73	70	65	58	51	44
-40°	46	49	50	51	50	49	46	43	39	34	30
-42.5°	30	31	32	32	32	31	30	28	26	23	21
-45°	20	21	22	22	22	21	20	19	18	17	15
-47.5°	14	15	15	15	15	15	14	14	13	12	11
-50°	11	11	11	11	11	11	11	10	10	9	8
-52.5°	8	8	8	8	8	8	8	8	7	7	7
-55°	6	6	6	6	6	6	6	6	6	6	6
-57.5°	6	6	6	6	6	6	6	5	5	5	5
-60°	5	5	5	5	5	5	5	5	5	5	5
-62.5°	5	5	5	5	5	5	5	5	5	4	4
-65°	4	4	4	4	4	4	4	4	4	4	4
-67.5°	4	4	4	4	4	4	4	4	4	4	4
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	3	3	3	3	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	2	2	2	2	2	2	2	2	2	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	1	1	1	1	1	1	1	0	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	1	1	1
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	2	2	2	2	2	2	2
70°	3	3	3	3	3	3	3	3	2	2	2
67.5°	4	3	3	3	3	3	3	3	3	3	3
65°	4	4	4	4	4	3	3	3	3	3	3
62.5°	4	4	4	4	4	4	4	4	3	3	3
60°	5	5	5	4	4	4	4	4	4	4	3
57.5°	5	5	5	5	5	5	4	4	4	4	4
55°	6	5	5	5	5	5	5	5	4	4	4
52.5°	6	6	6	6	5	5	5	5	5	5	4
50°	8	7	7	6	6	6	5	5	5	5	5
47.5°	10	9	8	8	7	6	6	6	5	5	5
45°	14	12	11	10	8	7	7	6	6	5	5
42.5°	19	16	14	13	11	9	8	7	6	6	5
40°	26	22	19	16	14	12	10	8	7	6	6
37.5°	37	31	26	21	18	14	12	10	8	7	6
35°	54	44	35	28	22	18	15	12	10	8	7
32.5°	75	63	49	39	30	23	18	14	12	9	7
30°	105	86	68	52	40	30	22	18	14	11	8
27.5°	145	114	91	70	52	39	28	21	16	13	10
25°	197	154	118	91	68	49	35	26	19	14	11
22.5°	258	204	154	114	86	63	44	31	22	16	12
20°	332	258	197	145	105	75	54	37	26	19	14
17.5°	416	322	243	177	128	92	65	44	30	21	15
15°	504	390	292	215	152	107	74	51	34	23	17
12.5°	592	459	343	249	176	123	85	58	39	26	18
10°	675	523	391	283	201	139	95	65	43	28	19
7.5°	748	578	432	313	222	152	103	70	46	30	20
5°	803	621	466	336	237	161	109	73	49	31	21
2.5°	837	649	486	351	246	167	112	75	50	32	22
0°	849	659	493	356	249	169	113	76	51	32	22
-2.5°	837	649	486	351	246	167	112	75	50	32	22
-5°	803	621	466	336	237	161	109	73	49	31	21
-7.5°	748	578	432	313	222	152	103	70	46	30	20
-10°	675	523	391	283	201	139	95	65	43	28	19
-12.5°	592	459	343	249	176	123	85	58	39	26	18
-15°	504	390	292	215	152	107	74	51	34	23	17
-17.5°	416	322	243	177	128	92	65	44	30	21	15
-20°	332	258	197	145	105	75	54	37	26	19	14



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	258	204	154	114	86	63	44	31	22	16	12
-25°	197	154	118	91	68	49	35	26	19	14	11
-27.5°	145	114	91	70	52	39	28	21	16	13	10
-30°	105	86	68	52	40	30	22	18	14	11	8
-32.5°	75	63	49	39	30	23	18	14	12	9	7
-35°	54	44	35	28	22	18	15	12	10	8	7
-37.5°	37	31	26	21	18	14	12	10	8	7	6
-40°	26	22	19	16	14	12	10	8	7	6	6
-42.5°	19	16	14	13	11	9	8	7	6	6	5
-45°	14	12	11	10	8	7	7	6	6	5	5
-47.5°	10	9	8	8	7	6	6	6	5	5	5
-50°	8	7	7	6	6	6	5	5	5	5	5
-52.5°	6	6	6	6	5	5	5	5	5	5	4
-55°	6	5	5	5	5	5	5	5	4	4	4
-57.5°	5	5	5	5	5	5	4	4	4	4	4
-60°	5	5	5	4	4	4	4	4	4	4	3
-62.5°	4	4	4	4	4	4	4	4	3	3	3
-65°	4	4	4	4	4	3	3	3	3	3	3
-67.5°	4	3	3	3	3	3	3	3	3	3	3
-70°	3	3	3	3	3	3	3	3	2	2	2
-72.5°	3	3	3	3	2	2	2	2	2	2	2
-75°	2	2	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	1	1	1	1	0	0	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	0	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	2	1	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	1	1	1	1
65°	3	3	2	2	2	2	2	2	1	1	1
62.5°	3	3	3	3	2	2	2	2	2	1	1
60°	3	3	3	3	3	2	2	2	2	2	1
57.5°	4	3	3	3	3	3	2	2	2	2	1
55°	4	4	3	3	3	3	3	2	2	2	2
52.5°	4	4	4	3	3	3	3	2	2	2	2
50°	4	4	4	4	3	3	3	3	2	2	2
47.5°	5	4	4	4	4	3	3	3	2	2	2
45°	5	5	4	4	4	3	3	3	3	2	2
42.5°	5	5	5	4	4	4	3	3	3	2	2
40°	5	5	5	4	4	4	3	3	3	2	2
37.5°	6	5	5	5	4	4	4	3	3	3	2
35°	6	5	5	5	4	4	4	3	3	3	2
32.5°	6	6	5	5	5	4	4	3	3	3	2
30°	7	6	5	5	5	4	4	4	3	3	2
27.5°	8	6	6	5	5	4	4	4	3	3	3
25°	8	7	6	5	5	5	4	4	3	3	3
22.5°	9	7	6	5	5	5	4	4	3	3	3
20°	10	8	6	6	5	5	4	4	4	3	3
17.5°	11	8	7	6	5	5	4	4	4	3	3
15°	12	9	7	6	5	5	4	4	4	3	3
12.5°	13	10	7	6	5	5	5	4	4	3	3
10°	14	10	8	6	5	5	5	4	4	3	3
7.5°	14	11	8	6	6	5	5	4	4	3	3
5°	15	11	8	6	6	5	5	4	4	3	3
2.5°	15	11	8	6	6	5	5	4	4	3	3
0°	15	11	8	6	6	5	5	4	4	3	3
-2.5°	15	11	8	6	6	5	5	4	4	3	3
-5°	15	11	8	6	6	5	5	4	4	3	3
-7.5°	14	11	8	6	6	5	5	4	4	3	3
-10°	14	10	8	6	5	5	5	4	4	3	3
-12.5°	13	10	7	6	5	5	5	4	4	3	3
-15°	12	9	7	6	5	5	4	4	4	3	3
-17.5°	11	8	7	6	5	5	4	4	4	3	3
-20°	10	8	6	6	5	5	4	4	4	3	3



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	9	7	6	5	5	5	4	4	3	3	3
-25°	8	7	6	5	5	5	4	4	3	3	3
-27.5°	8	6	6	5	5	4	4	4	3	3	3
-30°	7	6	5	5	5	4	4	4	3	3	2
-32.5°	6	6	5	5	5	4	4	3	3	3	2
-35°	6	5	5	5	4	4	4	3	3	3	2
-37.5°	6	5	5	5	4	4	4	3	3	3	2
-40°	5	5	5	4	4	4	3	3	3	2	2
-42.5°	5	5	5	4	4	4	3	3	3	2	2
-45°	5	5	4	4	4	3	3	3	3	2	2
-47.5°	5	4	4	4	4	3	3	3	2	2	2
-50°	4	4	4	4	3	3	3	3	2	2	2
-52.5°	4	4	4	3	3	3	3	2	2	2	2
-55°	4	4	3	3	3	3	3	2	2	2	2
-57.5°	4	3	3	3	3	3	2	2	2	2	1
-60°	3	3	3	3	3	2	2	2	2	2	1
-62.5°	3	3	3	3	2	2	2	2	2	1	1
-65°	3	3	2	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	2	2	2	1	1	1	1
-70°	2	2	2	2	2	2	1	1	1	1	1
-72.5°	2	2	2	2	1	1	1	1	1	1	1
-75°	2	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	1	1	1	1	1	1	0	0	0
-82.5°	1	1	1	1	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: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-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°	1	0	0	0	0	0	0
70°	1	1	0	0	0	0	0
67.5°	1	1	0	0	0	0	0
65°	1	1	1	0	0	0	0
62.5°	1	1	1	0	0	0	0
60°	1	1	1	0	0	0	0
57.5°	1	1	1	0	0	0	0
55°	1	1	1	1	0	0	0
52.5°	1	1	1	1	0	0	0
50°	1	1	1	1	0	0	0
47.5°	2	1	1	1	0	0	0
45°	2	1	1	1	0	0	0
42.5°	2	1	1	1	0	0	0
40°	2	1	1	1	0	0	0
37.5°	2	2	1	1	0	0	0
35°	2	2	1	1	1	0	0
32.5°	2	2	1	1	1	0	0
30°	2	2	1	1	1	0	0
27.5°	2	2	1	1	1	0	0
25°	2	2	1	1	1	0	0
22.5°	2	2	1	1	1	0	0
20°	2	2	1	1	1	0	0
17.5°	2	2	1	1	1	0	0
15°	2	2	1	1	1	0	0
12.5°	2	2	2	1	1	0	0
10°	2	2	2	1	1	0	0
7.5°	2	2	2	1	1	0	0
5°	2	2	2	1	1	0	0
2.5°	2	2	2	1	1	0	0
0°	2	2	2	1	1	0	0
-2.5°	2	2	2	1	1	0	0
-5°	2	2	2	1	1	0	0
-7.5°	2	2	2	1	1	0	0
-10°	2	2	2	1	1	0	0
-12.5°	2	2	2	1	1	0	0
-15°	2	2	1	1	1	0	0
-17.5°	2	2	1	1	1	0	0
-20°	2	2	1	1	1	0	0



REPORT NUMBER: P220386 (CONVERTED FROM TYPE C PHOTOMETRY)

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

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	2	2	1	1	1	0	0
-25°	2	2	1	1	1	0	0
-27.5°	2	2	1	1	1	0	0
-30°	2	2	1	1	1	0	0
-32.5°	2	2	1	1	1	0	0
-35°	2	2	1	1	1	0	0
-37.5°	2	2	1	1	0	0	0
-40°	2	1	1	1	0	0	0
-42.5°	2	1	1	1	0	0	0
-45°	2	1	1	1	0	0	0
-47.5°	2	1	1	1	0	0	0
-50°	1	1	1	1	0	0	0
-52.5°	1	1	1	1	0	0	0
-55°	1	1	1	1	0	0	0
-57.5°	1	1	1	0	0	0	0
-60°	1	1	1	0	0	0	0
-62.5°	1	1	1	0	0	0	0
-65°	1	1	1	0	0	0	0
-67.5°	1	1	0	0	0	0	0
-70°	1	1	0	0	0	0	0
-72.5°	1	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)