

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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)  
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-LED3597-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

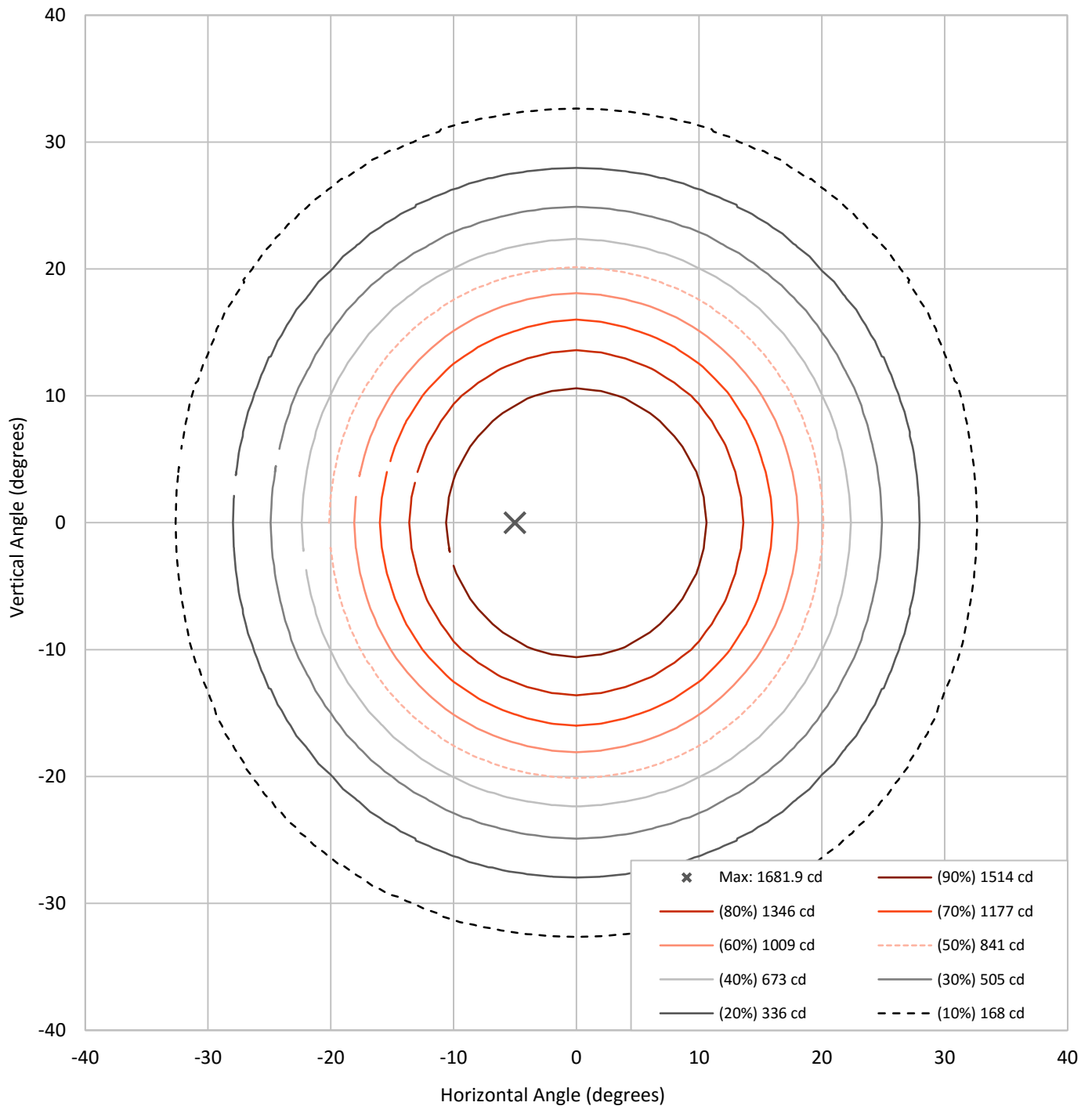
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	823.8 lumens	Max Intensity:	1681.9 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	82.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	502.4 lumens	Field Lumens:	752.4 lumens
Beam Efficiency:	61.0%	Field Efficiency:	91.3%
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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

### Iso-Candela Plot





REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

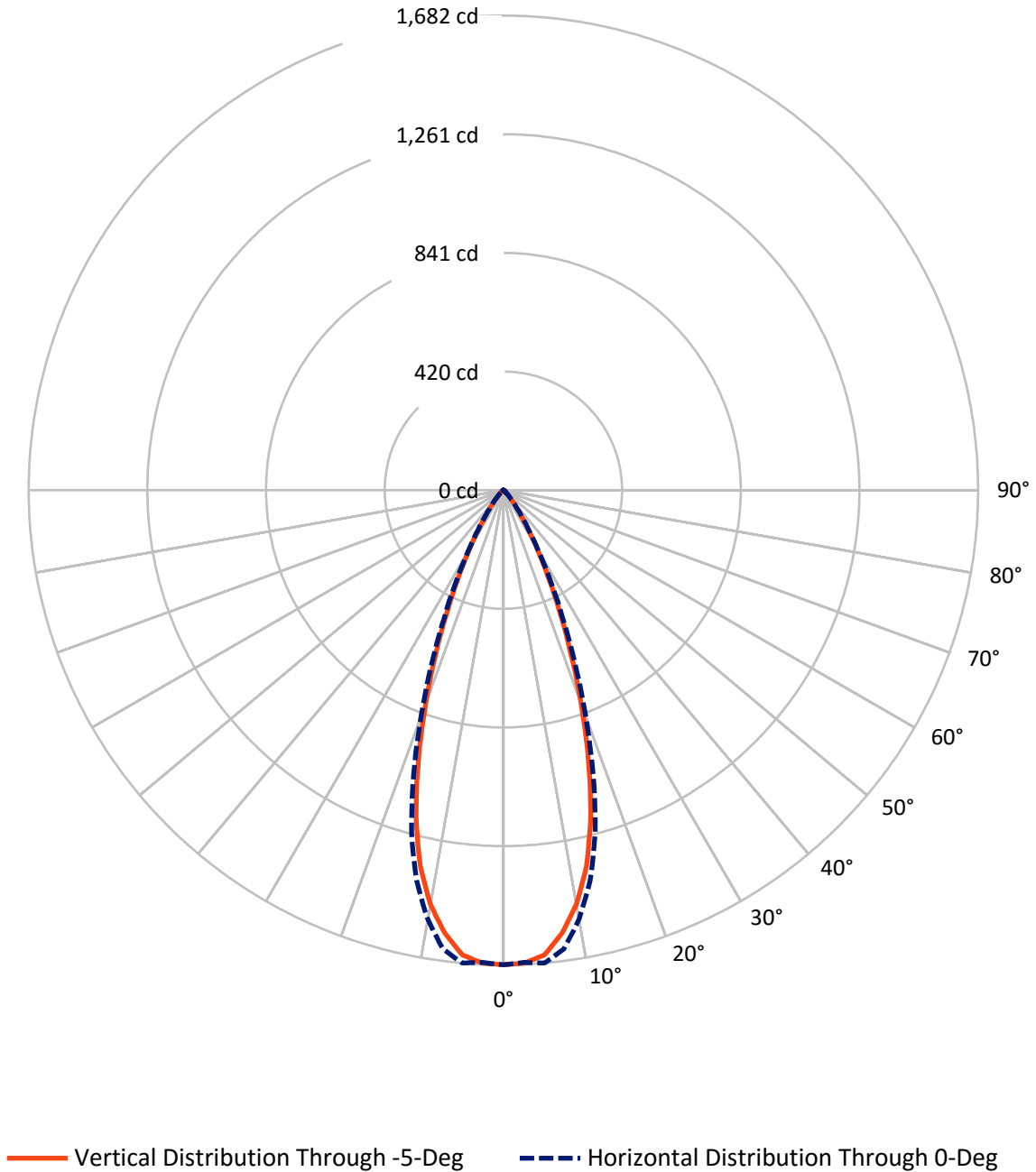
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

### Lumen Table

90	0.0															
80	0.0															
70	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	0.1	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	0.1	0.1	0.3	0.5	0.7	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0
40		0.0	0.0	0.1	0.3	1.0	2.4	3.6	3.6	2.4	1.0	0.3	0.1	0.0	0.0	
30	0.0	0.0	0.1	0.2	0.9	3.6	9.0	14.5	14.5	9.0	3.6	0.9	0.2	0.1	0.0	0.0
20		0.0	0.1	0.4	2.0	8.5	22.4	35.0	35.0	22.4	8.5	2.0	0.4	0.1	0.0	
10	0.0	0.0	0.1	0.5	3.0	13.2	34.0	48.5	48.5	34.0	13.2	3.0	0.5	0.1	0.0	0.0
0		0.0	0.1	0.5	3.0	13.2	34.0	48.5	48.5	34.0	13.2	3.0	0.5	0.1	0.0	
-10	0.0	0.0	0.1	0.5	3.0	13.2	34.0	48.5	48.5	34.0	13.2	3.0	0.5	0.1	0.0	0.0
-20		0.0	0.1	0.4	2.0	8.5	22.4	35.0	35.0	22.4	8.5	2.0	0.4	0.1	0.0	
-30	0.0	0.0	0.1	0.2	0.9	3.6	9.0	14.5	14.5	9.0	3.6	0.9	0.2	0.1	0.0	0.0
-40		0.0	0.0	0.1	0.3	1.0	2.4	3.6	3.6	2.4	1.0	0.3	0.1	0.0	0.0	
-50	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.7	0.7	0.5	0.3	0.1	0.1	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	0.1	0.1	0.0	0.0	0.0	
-70	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
-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															

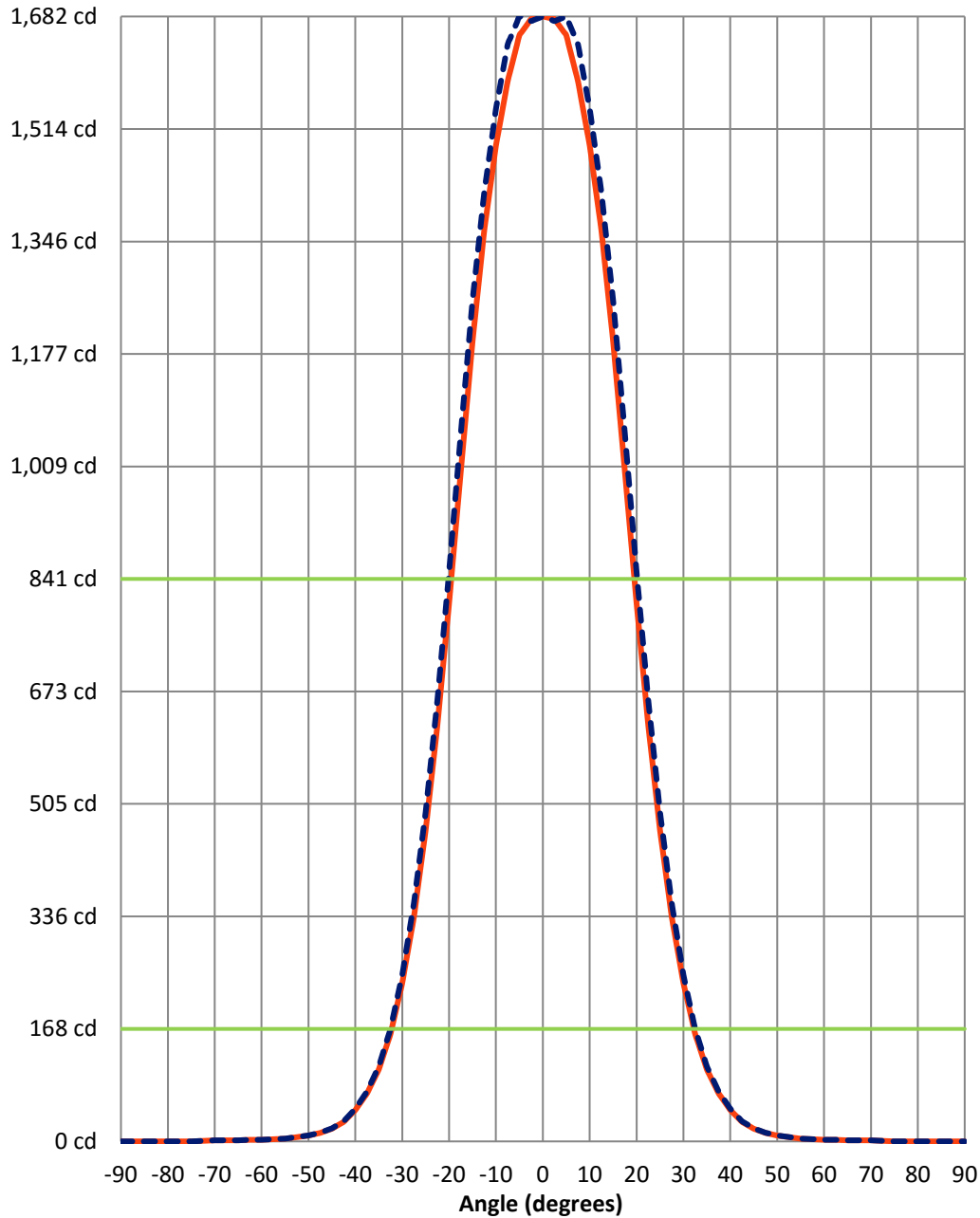
REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

### Luminous Intensity Polar Plot



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

### Luminous Intensity Plot



**Beam:**  
 H Angle: 40.3°  
 V Angle: 39.1°  
 Lumens: 502.4  
 Efficiency: 61.0%

**Field:**  
 H Angle: 65°  
 V Angle: 64.5°  
 Lumens: 752.4  
 Efficiency: 91.3%

**Spill:**  
 Lumens: 71.4  
 Efficiency: 8.7%

— Vertical Distribution through -5-Deg  
 - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

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	2
32.5°	0	0	0	0	0	0	0	0	1	1	2
30°	0	0	0	0	0	0	0	0	1	1	2
27.5°	0	0	0	0	0	0	0	0	1	2	2
25°	0	0	0	0	0	0	0	0	1	2	2
22.5°	0	0	0	0	0	0	0	0	1	2	2
20°	0	0	0	0	0	0	0	0	1	2	2
17.5°	0	0	0	0	0	0	0	1	1	2	2
15°	0	0	0	0	0	0	0	1	1	2	2
12.5°	0	0	0	0	0	0	0	1	1	2	2
10°	0	0	0	0	0	0	0	1	1	2	2
7.5°	0	0	0	0	0	0	0	1	2	2	2
5°	0	0	0	0	0	0	0	1	2	2	2
2.5°	0	0	0	0	0	0	0	1	2	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	2	2	2
-5°	0	0	0	0	0	0	0	1	2	2	2
-7.5°	0	0	0	0	0	0	0	1	2	2	2
-10°	0	0	0	0	0	0	0	1	1	2	2
-12.5°	0	0	0	0	0	0	0	1	1	2	2
-15°	0	0	0	0	0	0	0	1	1	2	2
-17.5°	0	0	0	0	0	0	0	1	1	2	2
-20°	0	0	0	0	0	0	0	0	1	2	2



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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	2	2
-25°	0	0	0	0	0	0	0	0	1	2	2
-27.5°	0	0	0	0	0	0	0	0	1	2	2
-30°	0	0	0	0	0	0	0	0	1	1	2
-32.5°	0	0	0	0	0	0	0	0	1	1	2
-35°	0	0	0	0	0	0	0	0	0	1	2
-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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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	2	2	2
60°	0	0	0	1	1	1	2	2	2	2	2
57.5°	0	0	1	1	1	2	2	2	2	2	2
55°	0	1	1	1	2	2	2	2	2	2	2
52.5°	0	1	1	2	2	2	2	2	2	2	2
50°	1	1	2	2	2	2	2	2	2	2	3
47.5°	1	2	2	2	2	2	2	2	2	3	3
45°	1	2	2	2	2	2	2	2	3	3	4
42.5°	2	2	2	2	2	2	2	3	3	4	5
40°	2	2	2	2	2	2	3	3	4	5	6
37.5°	2	2	2	2	2	3	3	4	5	6	8
35°	2	2	2	2	2	3	4	4	6	8	10
32.5°	2	2	2	2	3	3	4	6	7	9	12
30°	2	2	2	2	3	4	5	7	9	11	15
27.5°	2	2	2	3	3	4	6	8	10	14	19
25°	2	2	2	3	4	5	7	9	12	17	24
22.5°	2	2	2	3	4	5	8	10	14	20	29
20°	2	2	3	3	4	6	8	12	17	24	35
17.5°	2	2	3	4	5	7	9	13	19	28	43
15°	2	2	3	4	5	7	10	15	21	32	49
12.5°	2	2	3	4	6	8	11	16	24	37	57
10°	2	2	3	4	6	8	12	17	26	41	63
7.5°	2	2	3	4	6	9	12	18	28	44	68
5°	2	2	3	4	6	9	13	19	29	47	72
2.5°	2	2	3	4	6	9	13	19	30	48	74
0°	2	2	3	4	7	9	13	20	30	49	75
-2.5°	2	2	3	4	6	9	13	19	30	48	74
-5°	2	2	3	4	6	9	13	19	29	47	72
-7.5°	2	2	3	4	6	9	12	18	28	44	68
-10°	2	2	3	4	6	8	12	17	26	41	63
-12.5°	2	2	3	4	6	8	11	16	24	37	57
-15°	2	2	3	4	5	7	10	15	21	32	49
-17.5°	2	2	3	4	5	7	9	13	19	28	43
-20°	2	2	3	3	4	6	8	12	17	24	35



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	2	2	2	3	4	5	8	10	14	20	29
-25°	2	2	2	3	4	5	7	9	12	17	24
-27.5°	2	2	2	3	3	4	6	8	10	14	19
-30°	2	2	2	2	3	4	5	7	9	11	15
-32.5°	2	2	2	2	3	3	4	6	7	9	12
-35°	2	2	2	2	2	3	4	4	6	8	10
-37.5°	2	2	2	2	2	3	3	4	5	6	8
-40°	2	2	2	2	2	2	3	3	4	5	6
-42.5°	2	2	2	2	2	2	2	3	3	4	5
-45°	1	2	2	2	2	2	2	2	3	3	4
-47.5°	1	2	2	2	2	2	2	2	2	3	3
-50°	1	1	2	2	2	2	2	2	2	2	3
-52.5°	0	1	1	2	2	2	2	2	2	2	2
-55°	0	1	1	1	2	2	2	2	2	2	2
-57.5°	0	0	1	1	1	2	2	2	2	2	2
-60°	0	0	0	1	1	1	2	2	2	2	2
-62.5°	0	0	0	0	0	1	1	1	2	2	2
-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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	3	3	3	3	3
55°	2	2	2	3	3	3	3	4	4	4	4
52.5°	2	3	3	3	4	4	4	5	5	6	6
50°	3	3	4	4	5	5	6	7	7	8	8
47.5°	4	4	5	6	7	8	8	9	10	11	12
45°	4	6	7	8	9	10	12	13	15	16	17
42.5°	6	7	9	10	12	14	17	19	21	24	26
40°	8	9	11	14	17	20	24	28	32	37	41
37.5°	10	12	15	19	24	29	35	43	49	57	63
35°	12	16	20	26	33	43	52	63	73	84	94
32.5°	16	21	28	37	48	61	74	90	105	122	138
30°	20	28	38	51	67	84	104	127	152	175	201
27.5°	26	37	51	68	90	113	145	177	215	248	283
25°	33	48	67	90	117	154	197	242	292	343	391
22.5°	43	61	84	113	154	204	258	322	390	458	523
20°	52	74	104	145	197	258	332	416	504	593	676
17.5°	63	90	127	177	242	322	416	521	631	742	845
15°	73	105	152	215	292	390	504	631	765	898	1020
12.5°	84	122	175	248	343	458	593	742	898	1049	1183
10°	94	138	201	283	391	523	676	845	1020	1183	1319
7.5°	102	151	222	313	432	579	749	934	1122	1289	1420
5°	107	161	237	336	465	622	804	1002	1196	1362	1489
2.5°	111	166	246	351	486	650	840	1044	1241	1405	1530
0°	112	168	249	356	492	659	852	1058	1257	1419	1544
-2.5°	111	166	246	351	486	650	840	1044	1241	1405	1530
-5°	107	161	237	336	465	622	804	1002	1196	1362	1489
-7.5°	102	151	222	313	432	579	749	934	1122	1289	1420
-10°	94	138	201	283	391	523	676	845	1020	1183	1319
-12.5°	84	122	175	248	343	458	593	742	898	1049	1183
-15°	73	105	152	215	292	390	504	631	765	898	1020
-17.5°	63	90	127	177	242	322	416	521	631	742	845
-20°	52	74	104	145	197	258	332	416	504	593	676



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	43	61	84	113	154	204	258	322	390	458	523
-25°	33	48	67	90	117	154	197	242	292	343	391
-27.5°	26	37	51	68	90	113	145	177	215	248	283
-30°	20	28	38	51	67	84	104	127	152	175	201
-32.5°	16	21	28	37	48	61	74	90	105	122	138
-35°	12	16	20	26	33	43	52	63	73	84	94
-37.5°	10	12	15	19	24	29	35	43	49	57	63
-40°	8	9	11	14	17	20	24	28	32	37	41
-42.5°	6	7	9	10	12	14	17	19	21	24	26
-45°	4	6	7	8	9	10	12	13	15	16	17
-47.5°	4	4	5	6	7	8	8	9	10	11	12
-50°	3	3	4	4	5	5	6	7	7	8	8
-52.5°	2	3	3	3	4	4	4	5	5	6	6
-55°	2	2	2	3	3	3	3	4	4	4	4
-57.5°	2	2	2	2	2	2	3	3	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	1	1	2	2	2	2	2	2	2	2
-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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	2	2	2	2	2	2	2	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	4	4
52.5°	6	6	6	7	6	6	6	6	6	5	5
50°	9	9	9	9	9	9	9	8	8	7	7
47.5°	12	13	13	13	13	13	12	12	11	10	9
45°	18	19	19	20	19	19	18	17	16	15	13
42.5°	28	29	30	30	30	29	28	26	24	21	19
40°	44	47	48	49	48	47	44	41	37	32	28
37.5°	68	72	74	75	74	72	68	63	57	49	43
35°	102	107	111	112	111	107	102	94	84	73	63
32.5°	151	161	166	168	166	161	151	138	122	105	90
30°	222	237	246	249	246	237	222	201	175	152	127
27.5°	313	336	351	356	351	336	313	283	248	215	177
25°	432	465	486	492	486	465	432	391	343	292	242
22.5°	579	622	650	659	650	622	579	523	458	390	322
20°	749	804	840	852	840	804	749	676	593	504	416
17.5°	934	1002	1044	1058	1044	1002	934	845	742	631	521
15°	1122	1196	1241	1257	1241	1196	1122	1020	898	765	631
12.5°	1289	1362	1405	1419	1405	1362	1289	1183	1049	898	742
10°	1420	1489	1530	1544	1530	1489	1420	1319	1183	1020	845
7.5°	1516	1585	1627	1640	1627	1585	1516	1420	1289	1122	934
5°	1585	1654	1678	1682	1678	1654	1585	1489	1362	1196	1002
2.5°	1627	1678	1680	1675	1680	1678	1627	1530	1405	1241	1044
0°	1640	1682	1675	1682	1675	1682	1640	1544	1419	1257	1058
-2.5°	1627	1678	1680	1675	1680	1678	1627	1530	1405	1241	1044
-5°	1585	1654	1678	1682	1678	1654	1585	1489	1362	1196	1002
-7.5°	1516	1585	1627	1640	1627	1585	1516	1420	1289	1122	934
-10°	1420	1489	1530	1544	1530	1489	1420	1319	1183	1020	845
-12.5°	1289	1362	1405	1419	1405	1362	1289	1183	1049	898	742
-15°	1122	1196	1241	1257	1241	1196	1122	1020	898	765	631
-17.5°	934	1002	1044	1058	1044	1002	934	845	742	631	521
-20°	749	804	840	852	840	804	749	676	593	504	416



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	579	622	650	659	650	622	579	523	458	390	322
-25°	432	465	486	492	486	465	432	391	343	292	242
-27.5°	313	336	351	356	351	336	313	283	248	215	177
-30°	222	237	246	249	246	237	222	201	175	152	127
-32.5°	151	161	166	168	166	161	151	138	122	105	90
-35°	102	107	111	112	111	107	102	94	84	73	63
-37.5°	68	72	74	75	74	72	68	63	57	49	43
-40°	44	47	48	49	48	47	44	41	37	32	28
-42.5°	28	29	30	30	30	29	28	26	24	21	19
-45°	18	19	19	20	19	19	18	17	16	15	13
-47.5°	12	13	13	13	13	13	12	12	11	10	9
-50°	9	9	9	9	9	9	9	8	8	7	7
-52.5°	6	6	6	7	6	6	6	6	6	5	5
-55°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	2	2	2	2	2	2	2	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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	2	2	2	2	1	1	1	1	1	0	0
65°	2	2	2	2	2	2	2	1	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	2	2	2	2	2	2	2
52.5°	4	4	4	3	3	3	2	2	2	2	2
50°	6	5	5	4	4	3	3	3	2	2	2
47.5°	8	8	7	6	5	4	4	3	3	2	2
45°	12	10	9	8	7	6	4	4	3	3	2
42.5°	17	14	12	10	9	7	6	5	4	3	3
40°	24	20	17	14	11	9	8	6	5	4	3
37.5°	35	29	24	19	15	12	10	8	6	5	4
35°	52	43	33	26	20	16	12	10	8	6	4
32.5°	74	61	48	37	28	21	16	12	9	7	6
30°	104	84	67	51	38	28	20	15	11	9	7
27.5°	145	113	90	68	51	37	26	19	14	10	8
25°	197	154	117	90	67	48	33	24	17	12	9
22.5°	258	204	154	113	84	61	43	29	20	14	10
20°	332	258	197	145	104	74	52	35	24	17	12
17.5°	416	322	242	177	127	90	63	43	28	19	13
15°	504	390	292	215	152	105	73	49	32	21	15
12.5°	593	458	343	248	175	122	84	57	37	24	16
10°	676	523	391	283	201	138	94	63	41	26	17
7.5°	749	579	432	313	222	151	102	68	44	28	18
5°	804	622	465	336	237	161	107	72	47	29	19
2.5°	840	650	486	351	246	166	111	74	48	30	19
0°	852	659	492	356	249	168	112	75	49	30	20
-2.5°	840	650	486	351	246	166	111	74	48	30	19
-5°	804	622	465	336	237	161	107	72	47	29	19
-7.5°	749	579	432	313	222	151	102	68	44	28	18
-10°	676	523	391	283	201	138	94	63	41	26	17
-12.5°	593	458	343	248	175	122	84	57	37	24	16
-15°	504	390	292	215	152	105	73	49	32	21	15
-17.5°	416	322	242	177	127	90	63	43	28	19	13
-20°	332	258	197	145	104	74	52	35	24	17	12



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-BK-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	113	84	61	43	29	20	14	10
-25°	197	154	117	90	67	48	33	24	17	12	9
-27.5°	145	113	90	68	51	37	26	19	14	10	8
-30°	104	84	67	51	38	28	20	15	11	9	7
-32.5°	74	61	48	37	28	21	16	12	9	7	6
-35°	52	43	33	26	20	16	12	10	8	6	4
-37.5°	35	29	24	19	15	12	10	8	6	5	4
-40°	24	20	17	14	11	9	8	6	5	4	3
-42.5°	17	14	12	10	9	7	6	5	4	3	3
-45°	12	10	9	8	7	6	4	4	3	3	2
-47.5°	8	8	7	6	5	4	4	3	3	2	2
-50°	6	5	5	4	4	3	3	3	2	2	2
-52.5°	4	4	4	3	3	3	2	2	2	2	2
-55°	3	3	3	3	2	2	2	2	2	2	2
-57.5°	3	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	2	2	1
-65°	2	2	2	2	2	2	2	1	1	1	1
-67.5°	2	2	2	2	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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	2	1	1	1	0	0	0	0	0	0	0
57.5°	2	2	1	1	1	0	0	0	0	0	0
55°	2	2	2	1	1	1	0	0	0	0	0
52.5°	2	2	2	2	1	1	0	0	0	0	0
50°	2	2	2	2	2	1	1	0	0	0	0
47.5°	2	2	2	2	2	2	1	1	0	0	0
45°	2	2	2	2	2	2	1	1	0	0	0
42.5°	2	2	2	2	2	2	2	1	0	0	0
40°	3	2	2	2	2	2	2	1	1	0	0
37.5°	3	3	2	2	2	2	2	1	1	0	0
35°	4	3	2	2	2	2	2	2	1	0	0
32.5°	4	3	3	2	2	2	2	2	1	1	0
30°	5	4	3	2	2	2	2	2	1	1	0
27.5°	6	4	3	3	2	2	2	2	2	1	0
25°	7	5	4	3	2	2	2	2	2	1	0
22.5°	8	5	4	3	2	2	2	2	2	1	0
20°	8	6	4	3	3	2	2	2	2	1	0
17.5°	9	7	5	4	3	2	2	2	2	1	1
15°	10	7	5	4	3	2	2	2	2	1	1
12.5°	11	8	6	4	3	2	2	2	2	1	1
10°	12	8	6	4	3	2	2	2	2	1	1
7.5°	12	9	6	4	3	2	2	2	2	2	1
5°	13	9	6	4	3	2	2	2	2	2	1
2.5°	13	9	6	4	3	2	2	2	2	2	1
0°	13	9	7	4	3	2	2	2	2	2	1
-2.5°	13	9	6	4	3	2	2	2	2	2	1
-5°	13	9	6	4	3	2	2	2	2	2	1
-7.5°	12	9	6	4	3	2	2	2	2	2	1
-10°	12	8	6	4	3	2	2	2	2	1	1
-12.5°	11	8	6	4	3	2	2	2	2	1	1
-15°	10	7	5	4	3	2	2	2	2	1	1
-17.5°	9	7	5	4	3	2	2	2	2	1	1
-20°	8	6	4	3	3	2	2	2	2	1	0



REPORT NUMBER: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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°	8	5	4	3	2	2	2	2	2	1	0
-25°	7	5	4	3	2	2	2	2	2	1	0
-27.5°	6	4	3	3	2	2	2	2	2	1	0
-30°	5	4	3	2	2	2	2	2	1	1	0
-32.5°	4	3	3	2	2	2	2	2	1	1	0
-35°	4	3	2	2	2	2	2	2	1	0	0
-37.5°	3	3	2	2	2	2	2	1	1	0	0
-40°	3	2	2	2	2	2	2	1	1	0	0
-42.5°	2	2	2	2	2	2	2	1	0	0	0
-45°	2	2	2	2	2	2	1	1	0	0	0
-47.5°	2	2	2	2	2	2	1	1	0	0	0
-50°	2	2	2	2	2	1	1	0	0	0	0
-52.5°	2	2	2	2	1	1	0	0	0	0	0
-55°	2	2	2	1	1	1	0	0	0	0	0
-57.5°	2	2	1	1	1	0	0	0	0	0	0
-60°	2	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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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: P220423 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-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)