

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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220391 (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-LED3597-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
FLOOD OPTIC, WHITE 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:	839.9 lumens	Max Intensity:	1681.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	84.0 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:	505.2 lumens	Field Lumens:	760.6 lumens
Beam Efficiency:	60.1%	Field Efficiency:	90.6%

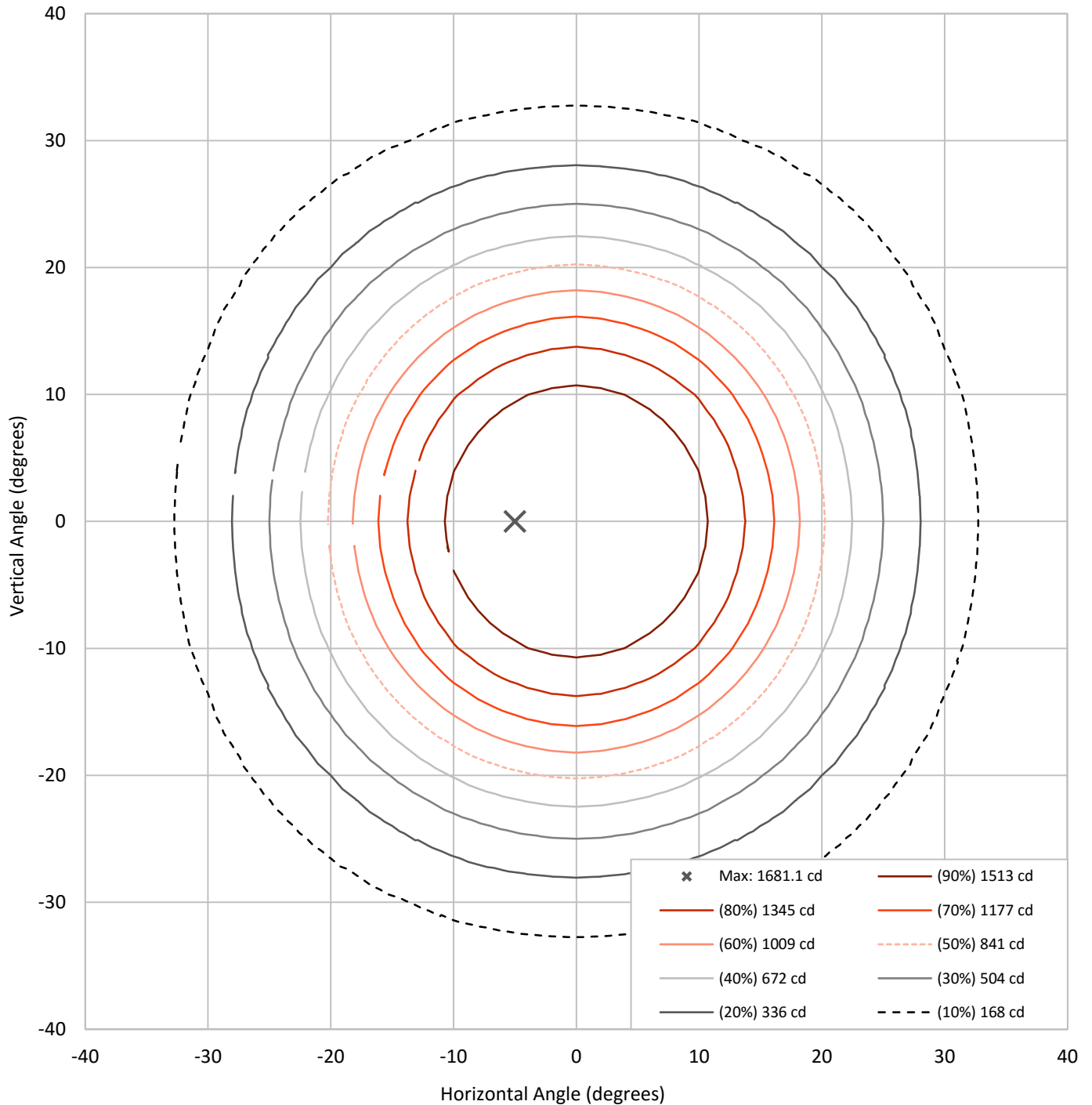
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

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

### Iso-Candela Plot





REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

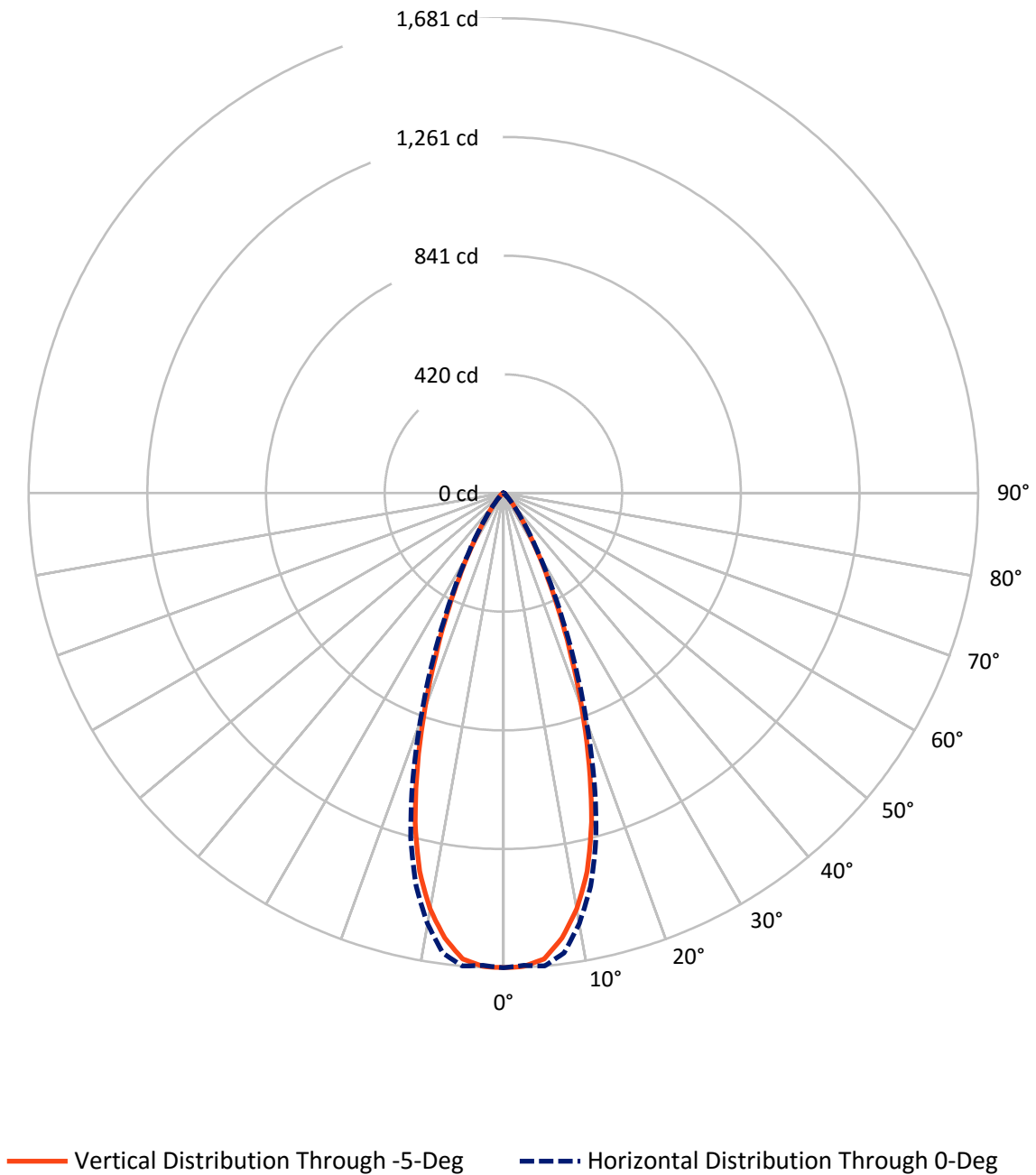
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-WT-L1-UNV

### Lumen Table

90	0.0	0.0	0.1	0.2	0.2	0.2	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										
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				
60		0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1		0.0			
50	0.0	0.0	0.1	0.1	0.2	0.3	0.6	0.7	0.7	0.6	0.3	0.2	0.1	0.1	0.0				
40		0.0	0.1	0.2	0.4	1.1	2.4	3.7	3.7	2.4	1.1	0.4	0.2	0.1		0.0			
30	0.0	0.1	0.1	0.3	1.0	3.6	9.1	14.6	14.6	9.1	3.6	1.0	0.3	0.1	0.1	0.0			
20		0.1	0.1	0.4	2.1	8.6	22.7	35.3	35.3	22.7	8.6	2.1	0.4	0.1	0.1				
10	0.0	0.1	0.1	0.5	3.1	13.4	34.3	48.6	48.6	34.3	13.4	3.1	0.5	0.1	0.1	0.0			
0		0.1	0.1	0.5	3.1	13.4	34.3	48.6	48.6	34.3	13.4	3.1	0.5	0.1	0.1				
-10	0.0	0.1	0.1	0.5	3.1	13.4	34.3	48.6	48.6	34.3	13.4	3.1	0.5	0.1	0.1	0.0			
-20		0.1	0.1	0.4	2.1	8.6	22.7	35.3	35.3	22.7	8.6	2.1	0.4	0.1	0.1				
-30	0.0	0.1	0.1	0.3	1.0	3.6	9.1	14.6	14.6	9.1	3.6	1.0	0.3	0.1	0.1	0.0			
-40		0.0	0.1	0.2	0.4	1.1	2.4	3.7	3.7	2.4	1.1	0.4	0.2	0.1	0.0				
-50	0.0	0.0	0.1	0.1	0.2	0.3	0.6	0.7	0.7	0.6	0.3	0.2	0.1	0.1	0.0				
-60		0.0	0.1	0.1	0.2	0.3	0.6	0.7	0.7	0.6	0.3	0.2	0.1	0.1		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	0.1	0.0	0.0	0.0			
-80		0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.0									
-90	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.0										

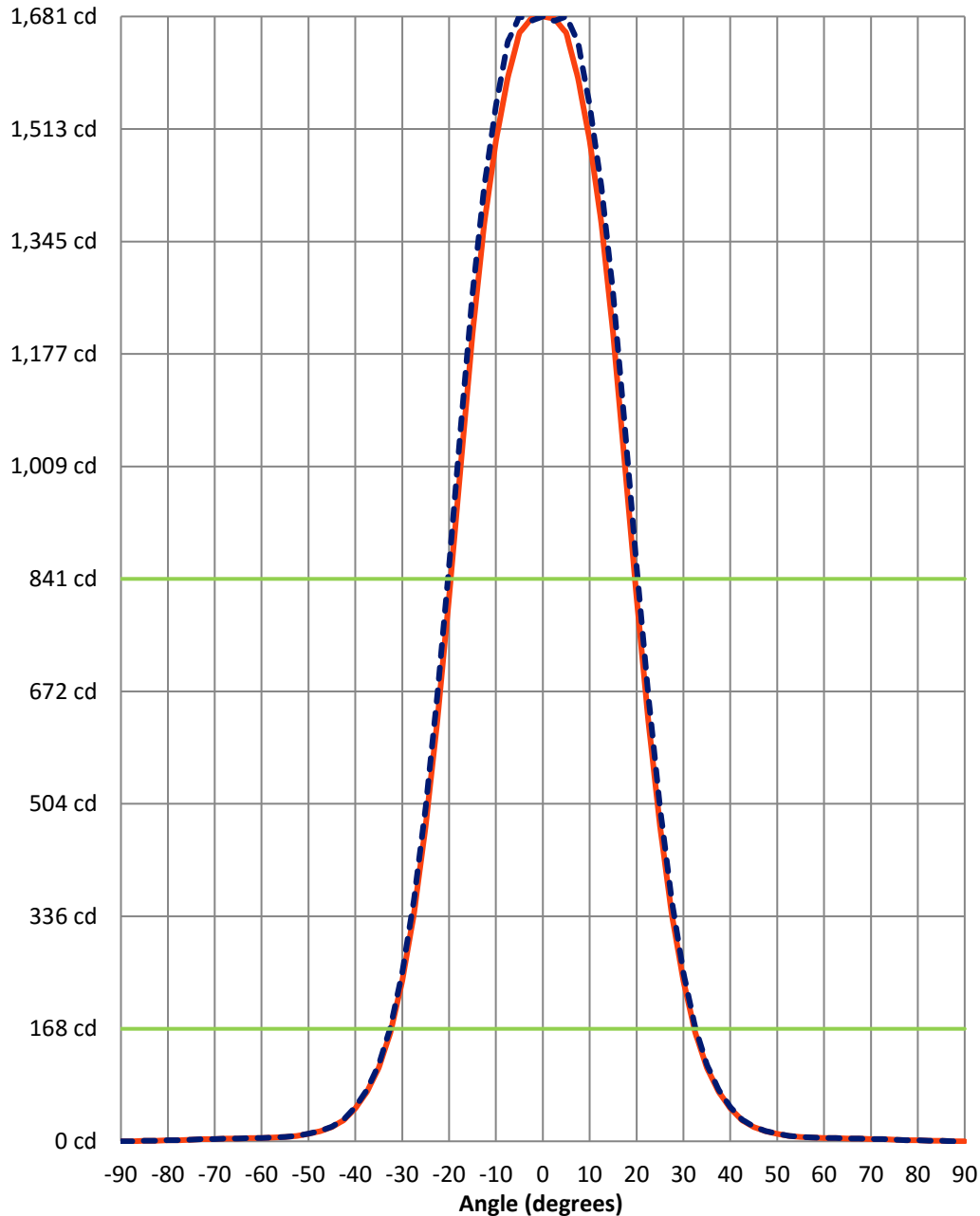
REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-F-WT-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 40.5°  
V Angle: 39.3°  
Lumens: 505.2  
Efficiency: 60.1%

**Field:**  
H Angle: 65.2°  
V Angle: 64.7°  
Lumens: 760.6  
Efficiency: 90.6%

**Spill:**  
Lumens: 79.2  
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	4
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	4	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	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	4
-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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	4
60°	2	2	3	3	3	3	3	4	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	4	4	4	4	5	5	5	5	6	6
42.5°	3	4	4	4	5	5	5	5	6	6	7
40°	4	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	8	9	12	15
30°	4	4	5	5	5	6	7	8	11	14	18
27.5°	4	5	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	6	6	7	10	13	17	22	31
20°	4	5	5	6	6	8	11	14	19	26	38
17.5°	4	5	5	6	7	9	12	15	21	30	45
15°	5	5	5	6	7	9	13	17	24	34	51
12.5°	5	5	5	6	7	10	13	18	26	39	59
10°	5	5	6	6	8	10	14	20	29	44	66
7.5°	5	5	6	6	8	11	15	21	30	47	71
5°	5	5	6	6	8	11	15	21	31	49	74
2.5°	5	5	6	6	8	11	15	22	32	51	76
0°	5	5	6	7	8	11	15	22	33	51	77
-2.5°	5	5	6	6	8	11	15	22	32	51	76
-5°	5	5	6	6	8	11	15	21	31	49	74
-7.5°	5	5	6	6	8	11	15	21	30	47	71
-10°	5	5	6	6	8	10	14	20	29	44	66
-12.5°	5	5	5	6	7	10	13	18	26	39	59
-15°	5	5	5	6	7	9	13	17	24	34	51
-17.5°	4	5	5	6	7	9	12	15	21	30	45
-20°	4	5	5	6	6	8	11	14	19	26	38



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	6	6	7	10	13	17	22	31
-25°	4	5	5	5	6	7	8	11	14	19	26
-27.5°	4	5	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	8	9	12	15
-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°	4	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	4	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	4	4	4	4
-62.5°	2	2	2	3	3	3	3	3	3	4	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	4	4	4	4	4
65°	3	4	4	4	4	4	4	4	4	4	4
62.5°	4	4	4	4	4	4	4	4	5	5	5
60°	4	4	4	5	5	5	5	5	5	5	5
57.5°	4	5	5	5	5	5	5	5	5	5	6
55°	5	5	5	5	5	6	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	9	9	10	10
47.5°	6	6	7	8	8	10	11	12	13	13	14
45°	7	8	8	10	11	13	14	15	17	18	20
42.5°	8	9	11	13	14	17	19	21	24	26	29
40°	10	12	14	16	19	22	26	30	34	39	44
37.5°	12	15	18	21	26	31	38	45	51	59	66
35°	15	19	23	29	36	45	55	65	75	86	96
32.5°	19	23	30	39	50	64	76	93	108	124	141
30°	23	30	41	53	69	87	107	130	154	178	204
27.5°	29	39	53	71	92	115	147	180	218	252	287
25°	36	50	69	92	120	156	200	246	296	347	396
22.5°	45	64	87	115	156	206	262	326	395	464	530
20°	55	76	107	147	200	262	336	421	511	600	684
17.5°	65	93	130	180	246	326	421	527	638	751	854
15°	75	108	154	218	296	395	511	638	774	908	1028
12.5°	86	124	178	252	347	464	600	751	908	1059	1194
10°	96	141	204	287	396	530	684	854	1028	1194	1330
7.5°	104	154	225	317	438	586	757	945	1132	1299	1428
5°	110	163	240	340	471	629	813	1011	1207	1372	1495
2.5°	113	169	249	355	492	657	848	1053	1251	1413	1535
0°	115	171	252	360	499	667	860	1068	1267	1426	1548
-2.5°	113	169	249	355	492	657	848	1053	1251	1413	1535
-5°	110	163	240	340	471	629	813	1011	1207	1372	1495
-7.5°	104	154	225	317	438	586	757	945	1132	1299	1428
-10°	96	141	204	287	396	530	684	854	1028	1194	1330
-12.5°	86	124	178	252	347	464	600	751	908	1059	1194
-15°	75	108	154	218	296	395	511	638	774	908	1028
-17.5°	65	93	130	180	246	326	421	527	638	751	854
-20°	55	76	107	147	200	262	336	421	511	600	684



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	45	64	87	115	156	206	262	326	395	464	530
-25°	36	50	69	92	120	156	200	246	296	347	396
-27.5°	29	39	53	71	92	115	147	180	218	252	287
-30°	23	30	41	53	69	87	107	130	154	178	204
-32.5°	19	23	30	39	50	64	76	93	108	124	141
-35°	15	19	23	29	36	45	55	65	75	86	96
-37.5°	12	15	18	21	26	31	38	45	51	59	66
-40°	10	12	14	16	19	22	26	30	34	39	44
-42.5°	8	9	11	13	14	17	19	21	24	26	29
-45°	7	8	8	10	11	13	14	15	17	18	20
-47.5°	6	6	7	8	8	10	11	12	13	13	14
-50°	5	6	6	6	7	7	8	9	9	10	10
-52.5°	5	5	5	6	6	6	6	7	7	7	8
-55°	5	5	5	5	5	6	6	6	6	6	6
-57.5°	4	5	5	5	5	5	5	5	5	5	6
-60°	4	4	4	5	5	5	5	5	5	5	5
-62.5°	4	4	4	4	4	4	4	4	5	5	5
-65°	3	4	4	4	4	4	4	4	4	4	4
-67.5°	3	3	3	3	3	4	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	5	4
60°	5	5	5	5	5	5	5	5	5	5	5
57.5°	6	6	6	6	6	6	6	6	5	5	5
55°	6	6	6	7	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	9
47.5°	15	15	15	15	15	15	15	14	13	13	12
45°	21	21	22	22	22	21	21	20	18	17	15
42.5°	30	31	32	33	32	31	30	29	26	24	21
40°	47	49	51	51	51	49	47	44	39	34	30
37.5°	71	74	76	77	76	74	71	66	59	51	45
35°	104	110	113	115	113	110	104	96	86	75	65
32.5°	154	163	169	171	169	163	154	141	124	108	93
30°	225	240	249	252	249	240	225	204	178	154	130
27.5°	317	340	355	360	355	340	317	287	252	218	180
25°	438	471	492	499	492	471	438	396	347	296	246
22.5°	586	629	657	667	657	629	586	530	464	395	326
20°	757	813	848	860	848	813	757	684	600	511	421
17.5°	945	1011	1053	1068	1053	1011	945	854	751	638	527
15°	1132	1207	1251	1267	1251	1207	1132	1028	908	774	638
12.5°	1299	1372	1413	1426	1413	1372	1299	1194	1059	908	751
10°	1428	1495	1535	1548	1535	1495	1428	1330	1194	1028	854
7.5°	1522	1589	1630	1643	1630	1589	1522	1428	1299	1132	945
5°	1589	1656	1678	1681	1678	1656	1589	1495	1372	1207	1011
2.5°	1630	1678	1679	1675	1679	1678	1630	1535	1413	1251	1053
0°	1643	1681	1675	1681	1675	1681	1643	1548	1426	1267	1068
-2.5°	1630	1678	1679	1675	1679	1678	1630	1535	1413	1251	1053
-5°	1589	1656	1678	1681	1678	1656	1589	1495	1372	1207	1011
-7.5°	1522	1589	1630	1643	1630	1589	1522	1428	1299	1132	945
-10°	1428	1495	1535	1548	1535	1495	1428	1330	1194	1028	854
-12.5°	1299	1372	1413	1426	1413	1372	1299	1194	1059	908	751
-15°	1132	1207	1251	1267	1251	1207	1132	1028	908	774	638
-17.5°	945	1011	1053	1068	1053	1011	945	854	751	638	527
-20°	757	813	848	860	848	813	757	684	600	511	421



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	586	629	657	667	657	629	586	530	464	395	326
-25°	438	471	492	499	492	471	438	396	347	296	246
-27.5°	317	340	355	360	355	340	317	287	252	218	180
-30°	225	240	249	252	249	240	225	204	178	154	130
-32.5°	154	163	169	171	169	163	154	141	124	108	93
-35°	104	110	113	115	113	110	104	96	86	75	65
-37.5°	71	74	76	77	76	74	71	66	59	51	45
-40°	47	49	51	51	51	49	47	44	39	34	30
-42.5°	30	31	32	33	32	31	30	29	26	24	21
-45°	21	21	22	22	22	21	21	20	18	17	15
-47.5°	15	15	15	15	15	15	15	14	13	13	12
-50°	11	11	11	11	11	11	11	10	10	9	9
-52.5°	8	8	8	8	8	8	8	8	7	7	7
-55°	6	6	6	7	6	6	6	6	6	6	6
-57.5°	6	6	6	6	6	6	6	6	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	5	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	3	3	3	3	3	3	3	3	3
65°	4	4	4	4	4	4	3	3	3	3	3
62.5°	4	4	4	4	4	4	4	4	4	3	3
60°	5	5	5	5	4	4	4	4	4	4	4
57.5°	5	5	5	5	5	5	4	4	4	4	4
55°	6	6	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°	11	10	8	8	7	6	6	6	5	5	5
45°	14	13	11	10	8	8	7	6	6	5	5
42.5°	19	17	14	13	11	9	8	7	6	6	5
40°	26	22	19	16	14	12	10	8	7	6	6
37.5°	38	31	26	21	18	15	12	10	8	7	6
35°	55	45	36	29	23	19	15	12	10	8	7
32.5°	76	64	50	39	30	23	19	15	12	9	8
30°	107	87	69	53	41	30	23	18	14	11	8
27.5°	147	115	92	71	53	39	29	21	16	13	10
25°	200	156	120	92	69	50	36	26	19	14	11
22.5°	262	206	156	115	87	64	45	31	22	17	13
20°	336	262	200	147	107	76	55	38	26	19	14
17.5°	421	326	246	180	130	93	65	45	30	21	15
15°	511	395	296	218	154	108	75	51	34	24	17
12.5°	600	464	347	252	178	124	86	59	39	26	18
10°	684	530	396	287	204	141	96	66	44	29	20
7.5°	757	586	438	317	225	154	104	71	47	30	21
5°	813	629	471	340	240	163	110	74	49	31	21
2.5°	848	657	492	355	249	169	113	76	51	32	22
0°	860	667	499	360	252	171	115	77	51	33	22
-2.5°	848	657	492	355	249	169	113	76	51	32	22
-5°	813	629	471	340	240	163	110	74	49	31	21
-7.5°	757	586	438	317	225	154	104	71	47	30	21
-10°	684	530	396	287	204	141	96	66	44	29	20
-12.5°	600	464	347	252	178	124	86	59	39	26	18
-15°	511	395	296	218	154	108	75	51	34	24	17
-17.5°	421	326	246	180	130	93	65	45	30	21	15
-20°	336	262	200	147	107	76	55	38	26	19	14



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	262	206	156	115	87	64	45	31	22	17	13
-25°	200	156	120	92	69	50	36	26	19	14	11
-27.5°	147	115	92	71	53	39	29	21	16	13	10
-30°	107	87	69	53	41	30	23	18	14	11	8
-32.5°	76	64	50	39	30	23	19	15	12	9	8
-35°	55	45	36	29	23	19	15	12	10	8	7
-37.5°	38	31	26	21	18	15	12	10	8	7	6
-40°	26	22	19	16	14	12	10	8	7	6	6
-42.5°	19	17	14	13	11	9	8	7	6	6	5
-45°	14	13	11	10	8	8	7	6	6	5	5
-47.5°	11	10	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	6	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	5	4	4	4	4	4	4	4
-62.5°	4	4	4	4	4	4	4	4	4	3	3
-65°	4	4	4	4	4	4	3	3	3	3	3
-67.5°	4	4	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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	4	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	4	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	4	3	3	2
30°	7	6	5	5	5	4	4	4	3	3	2
27.5°	8	6	6	5	5	5	4	4	3	3	3
25°	8	7	6	5	5	5	4	4	3	3	3
22.5°	10	7	6	6	5	5	4	4	4	3	3
20°	11	8	6	6	5	5	4	4	4	3	3
17.5°	12	9	7	6	5	5	4	4	4	3	3
15°	13	9	7	6	5	5	5	4	4	3	3
12.5°	13	10	7	6	5	5	5	4	4	3	3
10°	14	10	8	6	6	5	5	4	4	3	3
7.5°	15	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	7	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°	15	11	8	6	6	5	5	4	4	3	3
-10°	14	10	8	6	6	5	5	4	4	3	3
-12.5°	13	10	7	6	5	5	5	4	4	3	3
-15°	13	9	7	6	5	5	5	4	4	3	3
-17.5°	12	9	7	6	5	5	4	4	4	3	3
-20°	11	8	6	6	5	5	4	4	4	3	3



REPORT NUMBER: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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°	10	7	6	6	5	5	4	4	4	3	3
-25°	8	7	6	5	5	5	4	4	3	3	3
-27.5°	8	6	6	5	5	5	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	4	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	4	3	3	2	2
-42.5°	5	5	5	4	4	4	3	3	3	2	2
-45°	5	5	4	4	4	4	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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-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: P220391 (CONVERTED FROM TYPE C PHOTOMETRY)

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