

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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3590-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220387 (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-LED3590-F-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	897.8 lumens	Max Intensity:	1797.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	89.8 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:	540.1 lumens	Field Lumens:	813.2 lumens
Beam Efficiency:	60.2%	Field Efficiency:	90.6%

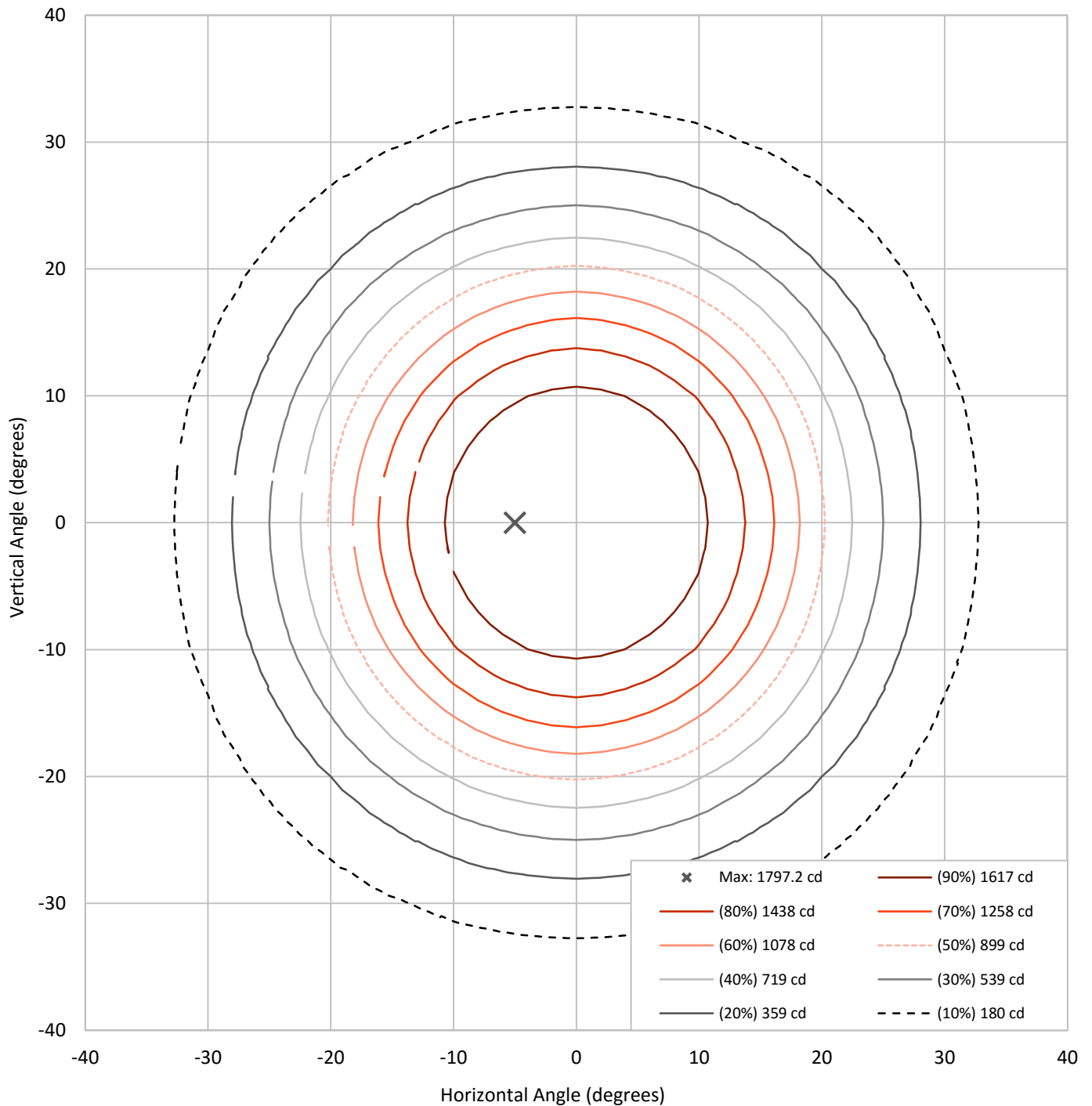
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-WT-L1-UNV

Iso-Candela Plot





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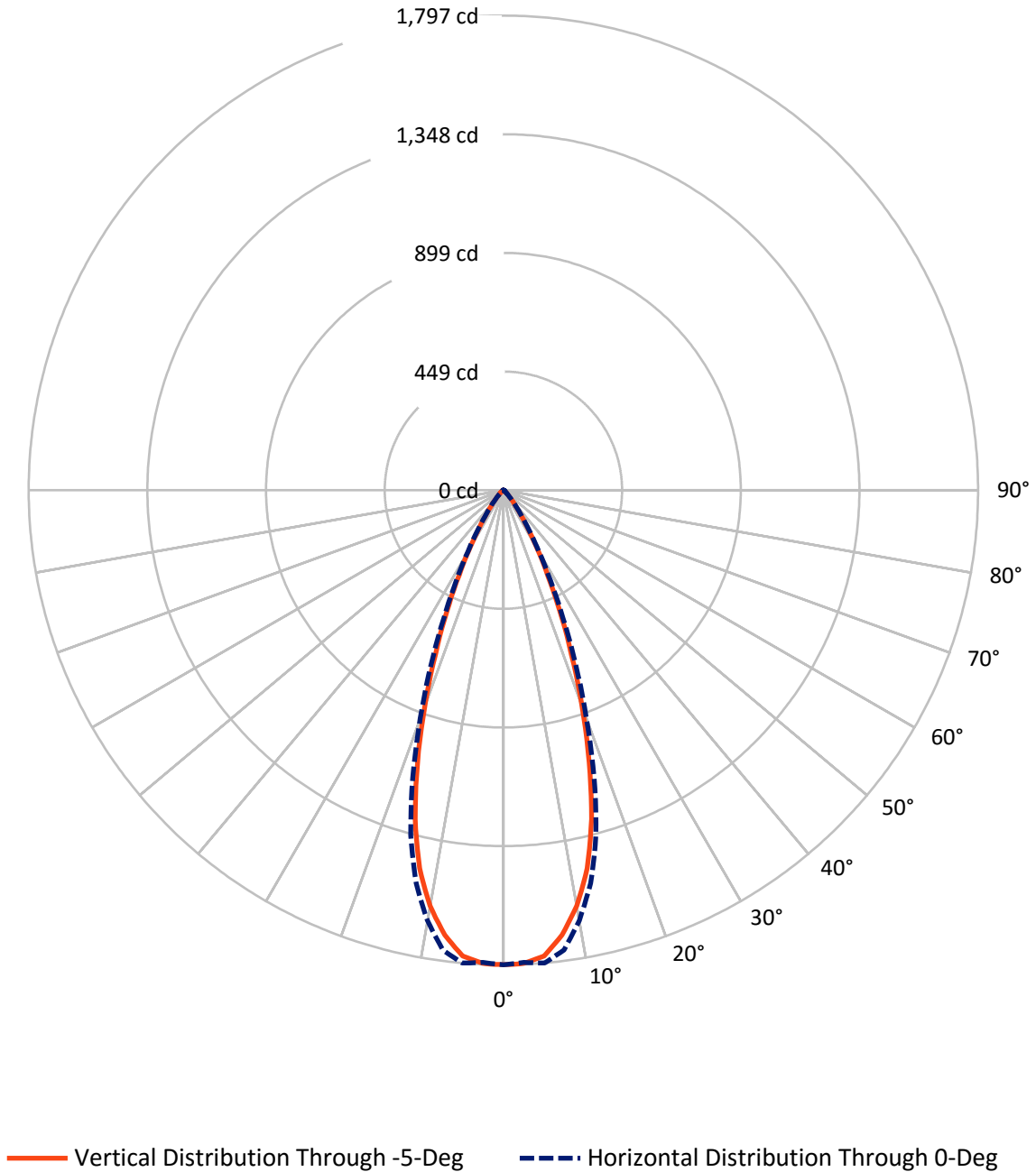
Lumen Table

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	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	
40	0.0	0.0	0.1	0.1	0.2	0.4	0.6	0.8	0.8	0.6	0.4	0.2	0.1	0.1	0.0	0.0
30		0.0	0.1	0.2	0.4	1.2	2.6	3.9	3.9	2.6	1.2	0.4	0.2	0.1	0.0	
20	0.0	0.1	0.1	0.3	1.1	3.9	9.8	15.6	15.6	9.8	3.9	1.1	0.3	0.1	0.1	0.0
10		0.1	0.1	0.4	2.2	9.2	24.2	37.8	37.8	24.2	9.2	2.2	0.4	0.1	0.1	
0	0.0	0.1	0.1	0.6	3.3	14.3	36.7	51.9	51.9	36.7	14.3	3.3	0.6	0.1	0.1	0.0
-10		0.1	0.1	0.6	3.3	14.3	36.7	51.9	51.9	36.7	14.3	3.3	0.6	0.1	0.1	
-20	0.0	0.1	0.1	0.4	2.2	9.2	24.2	37.8	37.8	24.2	9.2	2.2	0.4	0.1	0.1	0.0
-30		0.1	0.1	0.3	1.1	3.9	9.8	15.6	15.6	9.8	3.9	1.1	0.3	0.1	0.1	
-40	0.0	0.0	0.1	0.2	0.4	1.2	2.6	3.9	3.9	2.6	1.2	0.4	0.2	0.1	0.0	0.0
-50		0.0	0.1	0.1	0.2	0.4	0.6	0.8	0.8	0.6	0.4	0.2	0.1	0.1	0.0	
-60	0.0	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	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																
-90	0.0	0.0		0.1	0.2		0.2	0.2		0.1	0.0		0.0			

REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)

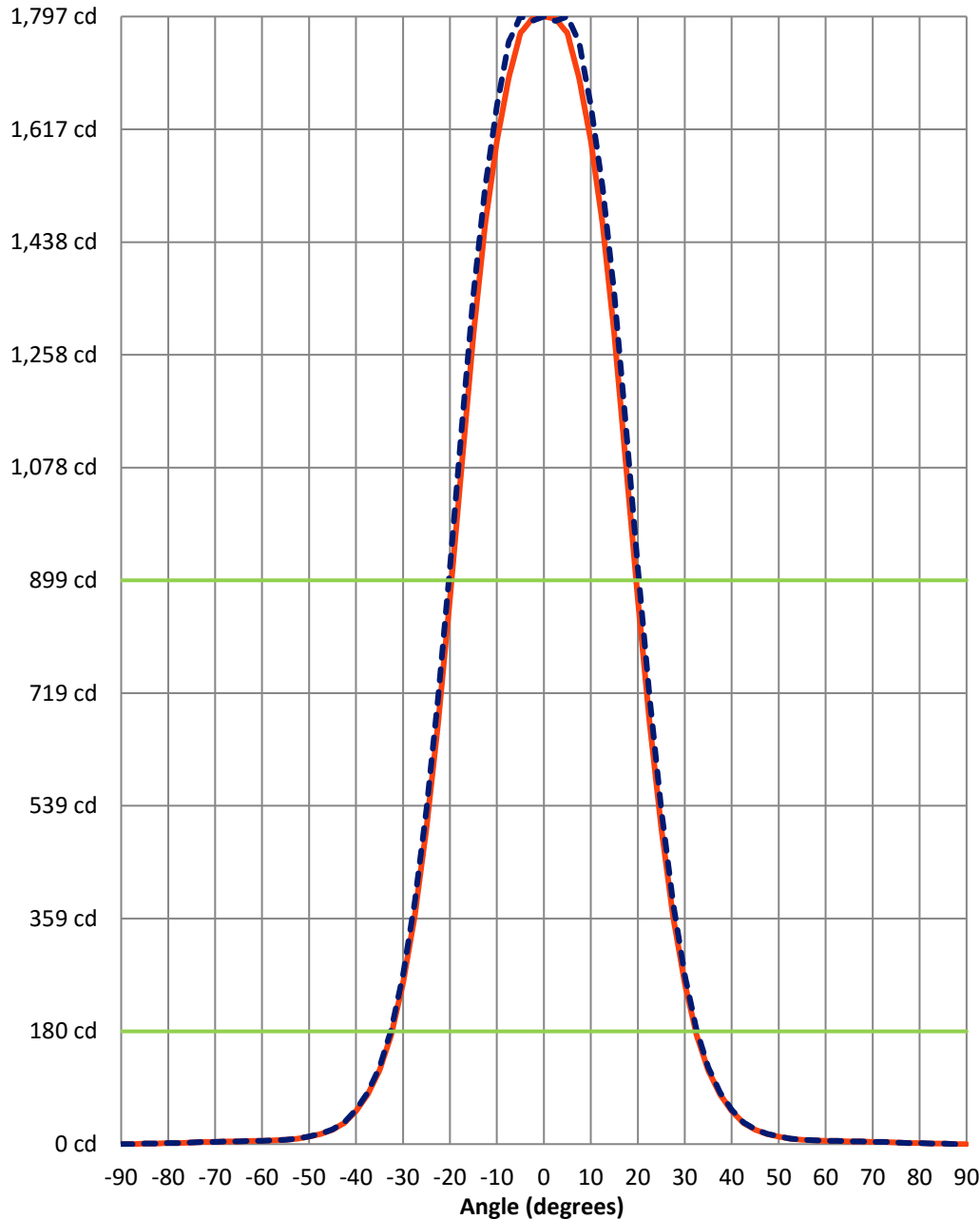
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-WT-L1-UNV

Luminous Intensity Polar Plot



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 40.5°
V Angle: 39.3°
Lumens: 540.1
Efficiency: 60.2%

Field:
H Angle: 65.2°
V Angle: 64.7°
Lumens: 813.2
Efficiency: 90.6%

Spill:
Lumens: 84.7
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	1	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	3
50°	0	0	0	1	1	1	2	2	2	2	3
47.5°	0	0	0	1	1	1	2	2	2	3	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	4
40°	0	0	0	1	1	2	2	2	3	3	4
37.5°	0	0	1	1	1	2	2	2	3	4	4
35°	0	0	1	1	1	2	2	2	3	4	4
32.5°	0	0	1	1	1	2	2	2	3	4	4
30°	0	0	1	1	1	2	2	3	3	4	4
27.5°	0	0	1	1	1	2	2	3	4	4	4
25°	0	0	1	1	1	2	2	3	4	4	4
22.5°	0	0	1	1	1	2	2	3	4	4	4
20°	0	0	1	1	2	2	2	3	4	4	4
17.5°	0	0	1	1	2	2	2	3	4	4	4
15°	0	0	1	1	2	2	2	3	4	4	4
12.5°	0	0	1	1	2	2	2	3	4	4	4
10°	0	0	1	1	2	2	3	3	4	4	4
7.5°	0	0	1	1	2	2	3	3	4	4	4
5°	0	0	1	1	2	2	3	3	4	4	4
2.5°	0	0	1	1	2	2	3	3	4	4	4
0°	0	0	1	1	2	2	3	4	4	4	4
-2.5°	0	0	1	1	2	2	3	3	4	4	4
-5°	0	0	1	1	2	2	3	3	4	4	4
-7.5°	0	0	1	1	2	2	3	3	4	4	4
-10°	0	0	1	1	2	2	3	3	4	4	4
-12.5°	0	0	1	1	2	2	2	3	4	4	4
-15°	0	0	1	1	2	2	2	3	4	4	4
-17.5°	0	0	1	1	2	2	2	3	4	4	4
-20°	0	0	1	1	2	2	2	3	4	4	4



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	4	4	4
-25°	0	0	1	1	1	2	2	3	4	4	4
-27.5°	0	0	1	1	1	2	2	3	4	4	4
-30°	0	0	1	1	1	2	2	3	3	4	4
-32.5°	0	0	1	1	1	2	2	2	3	4	4
-35°	0	0	1	1	1	2	2	2	3	4	4
-37.5°	0	0	1	1	1	2	2	2	3	4	4
-40°	0	0	0	1	1	2	2	2	3	3	4
-42.5°	0	0	0	1	1	1	2	2	2	3	4
-45°	0	0	0	1	1	1	2	2	2	3	3
-47.5°	0	0	0	1	1	1	2	2	2	3	3
-50°	0	0	0	1	1	1	2	2	2	2	3
-52.5°	0	0	0	1	1	1	1	2	2	2	3
-55°	0	0	0	1	1	1	1	2	2	2	2
-57.5°	0	0	0	1	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1
82.5°	0	0	1	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	2	2
75°	1	1	1	1	1	2	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	3	3
67.5°	2	2	2	2	2	2	3	3	3	3	4
65°	2	2	2	2	3	3	3	3	4	4	4
62.5°	2	2	2	3	3	3	4	4	4	4	4
60°	2	2	3	3	4	4	4	4	4	4	4
57.5°	2	3	3	4	4	4	4	4	4	4	4
55°	3	3	4	4	4	4	4	4	4	5	5
52.5°	3	4	4	4	4	4	4	4	5	5	5
50°	3	4	4	4	4	4	5	5	5	5	5
47.5°	4	4	4	4	4	5	5	5	5	6	6
45°	4	4	4	4	4	5	5	5	6	6	7
42.5°	4	4	4	4	5	5	5	6	6	7	7
40°	4	4	4	5	5	5	6	6	7	8	9
37.5°	4	4	4	5	5	5	6	7	7	9	11
35°	4	4	5	5	5	6	6	7	8	11	13
32.5°	4	4	5	5	6	6	7	8	10	13	16
30°	4	5	5	5	6	7	7	9	12	15	19
27.5°	4	5	5	5	6	7	8	11	14	17	23
25°	4	5	5	6	6	7	9	12	16	21	28
22.5°	4	5	5	6	7	8	10	14	18	24	33
20°	5	5	5	6	7	8	11	15	20	28	40
17.5°	5	5	5	6	7	9	12	16	23	32	48
15°	5	5	6	6	8	10	13	18	25	37	55
12.5°	5	5	6	7	8	11	14	20	28	42	63
10°	5	5	6	7	8	11	15	21	30	46	70
7.5°	5	5	6	7	8	12	16	22	32	50	75
5°	5	5	6	7	9	12	16	23	34	53	79
2.5°	5	5	6	7	9	12	16	23	34	54	82
0°	5	5	6	7	9	12	17	24	35	55	83
-2.5°	5	5	6	7	9	12	16	23	34	54	82
-5°	5	5	6	7	9	12	16	23	34	53	79
-7.5°	5	5	6	7	8	12	16	22	32	50	75
-10°	5	5	6	7	8	11	15	21	30	46	70
-12.5°	5	5	6	7	8	11	14	20	28	42	63
-15°	5	5	6	6	8	10	13	18	25	37	55
-17.5°	5	5	5	6	7	9	12	16	23	32	48
-20°	5	5	5	6	7	8	11	15	20	28	40



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	7	8	10	14	18	24	33
-25°	4	5	5	6	6	7	9	12	16	21	28
-27.5°	4	5	5	5	6	7	8	11	14	17	23
-30°	4	5	5	5	6	7	7	9	12	15	19
-32.5°	4	4	5	5	6	6	7	8	10	13	16
-35°	4	4	5	5	5	6	6	7	8	11	13
-37.5°	4	4	4	5	5	5	6	7	7	9	11
-40°	4	4	4	5	5	5	6	6	7	8	9
-42.5°	4	4	4	4	5	5	5	6	6	7	7
-45°	4	4	4	4	4	5	5	5	6	6	7
-47.5°	4	4	4	4	4	5	5	5	5	6	6
-50°	3	4	4	4	4	4	5	5	5	5	5
-52.5°	3	4	4	4	4	4	4	4	5	5	5
-55°	3	3	4	4	4	4	4	4	4	5	5
-57.5°	2	3	3	4	4	4	4	4	4	4	4
-60°	2	2	3	3	4	4	4	4	4	4	4
-62.5°	2	2	2	3	3	3	4	4	4	4	4
-65°	2	2	2	2	3	3	3	3	4	4	4
-67.5°	2	2	2	2	2	2	3	3	3	3	4
-70°	1	2	2	2	2	2	2	2	2	3	3
-72.5°	1	1	1	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	2	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	2	2
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	1	1	1	1	1	1	1	1	1
-85°	0	0	0	0	0	0	0	0	0	0	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	2	2	2	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	3
72.5°	2	2	3	3	3	3	3	3	3	3	3
70°	3	3	3	4	4	4	4	4	4	4	4
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°	4	4	4	4	4	4	5	5	5	5	5
60°	4	4	5	5	5	5	5	5	5	5	5
57.5°	5	5	5	5	5	5	5	5	6	6	6
55°	5	5	5	5	6	6	6	6	6	7	7
52.5°	5	6	6	6	6	7	7	7	8	8	8
50°	6	6	7	7	7	8	8	9	10	11	11
47.5°	6	7	7	8	9	10	11	12	13	14	15
45°	7	8	9	11	12	14	15	16	18	20	21
42.5°	8	10	12	14	16	18	20	23	25	28	30
40°	11	13	15	17	21	24	28	32	37	42	46
37.5°	13	16	19	23	28	33	40	48	55	63	70
35°	16	20	24	31	38	48	58	70	80	92	103
32.5°	20	25	32	42	54	68	82	99	115	133	150
30°	24	32	43	57	74	93	114	139	165	190	218
27.5°	31	42	57	76	99	123	158	192	233	269	306
25°	38	54	74	99	128	167	213	263	316	371	423
22.5°	48	68	93	123	167	221	280	348	422	497	566
20°	58	82	114	158	213	280	359	450	546	641	731
17.5°	70	99	139	192	263	348	450	564	682	803	912
15°	80	115	165	233	316	422	546	682	827	970	1099
12.5°	92	133	190	269	371	497	641	803	970	1132	1277
10°	103	150	218	306	423	566	731	912	1099	1277	1422
7.5°	111	164	240	339	468	626	810	1010	1210	1388	1526
5°	118	174	256	363	504	673	869	1081	1290	1466	1599
2.5°	121	180	266	380	526	703	906	1126	1338	1511	1641
0°	123	182	269	385	533	713	919	1141	1354	1525	1655
-2.5°	121	180	266	380	526	703	906	1126	1338	1511	1641
-5°	118	174	256	363	504	673	869	1081	1290	1466	1599
-7.5°	111	164	240	339	468	626	810	1010	1210	1388	1526
-10°	103	150	218	306	423	566	731	912	1099	1277	1422
-12.5°	92	133	190	269	371	497	641	803	970	1132	1277
-15°	80	115	165	233	316	422	546	682	827	970	1099
-17.5°	70	99	139	192	263	348	450	564	682	803	912
-20°	58	82	114	158	213	280	359	450	546	641	731



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	48	68	93	123	167	221	280	348	422	497	566
-25°	38	54	74	99	128	167	213	263	316	371	423
-27.5°	31	42	57	76	99	123	158	192	233	269	306
-30°	24	32	43	57	74	93	114	139	165	190	218
-32.5°	20	25	32	42	54	68	82	99	115	133	150
-35°	16	20	24	31	38	48	58	70	80	92	103
-37.5°	13	16	19	23	28	33	40	48	55	63	70
-40°	11	13	15	17	21	24	28	32	37	42	46
-42.5°	8	10	12	14	16	18	20	23	25	28	30
-45°	7	8	9	11	12	14	15	16	18	20	21
-47.5°	6	7	7	8	9	10	11	12	13	14	15
-50°	6	6	7	7	7	8	8	9	10	11	11
-52.5°	5	6	6	6	6	7	7	7	8	8	8
-55°	5	5	5	5	6	6	6	6	6	7	7
-57.5°	5	5	5	5	5	5	5	5	6	6	6
-60°	4	4	5	5	5	5	5	5	5	5	5
-62.5°	4	4	4	4	4	4	5	5	5	5	5
-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	4	4	4	4	4	4	4	4
-72.5°	2	2	3	3	3	3	3	3	3	3	3
-75°	2	2	2	2	2	2	2	2	2	2	3
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	1	1	1	2	2	2	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	3	3	3	3	3	3	3	3	2	2	2
72.5°	3	3	3	4	3	3	3	3	3	3	3
70°	4	4	4	4	4	4	4	4	4	4	4
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	5
60°	5	5	5	5	5	5	5	5	5	5	5
57.5°	6	6	6	6	6	6	6	6	6	6	5
55°	7	7	7	7	7	7	7	7	7	6	6
52.5°	8	9	9	9	9	9	8	8	8	8	7
50°	12	12	12	12	12	12	12	11	11	10	9
47.5°	16	16	16	17	16	16	16	15	14	13	12
45°	22	23	23	24	23	23	22	21	20	18	16
42.5°	32	34	34	35	34	34	32	30	28	25	23
40°	50	53	54	55	54	53	50	46	42	37	32
37.5°	75	79	82	83	82	79	75	70	63	55	48
35°	111	118	121	123	121	118	111	103	92	80	70
32.5°	164	174	180	182	180	174	164	150	133	115	99
30°	240	256	266	269	266	256	240	218	190	165	139
27.5°	339	363	380	385	380	363	339	306	269	233	192
25°	468	504	526	533	526	504	468	423	371	316	263
22.5°	626	673	703	713	703	673	626	566	497	422	348
20°	810	869	906	919	906	869	810	731	641	546	450
17.5°	1010	1081	1126	1141	1126	1081	1010	912	803	682	564
15°	1210	1290	1338	1354	1338	1290	1210	1099	970	827	682
12.5°	1388	1466	1511	1525	1511	1466	1388	1277	1132	970	803
10°	1526	1599	1641	1655	1641	1599	1526	1422	1277	1099	912
7.5°	1627	1699	1742	1756	1742	1699	1627	1526	1388	1210	1010
5°	1699	1771	1794	1797	1794	1771	1699	1599	1466	1290	1081
2.5°	1742	1794	1795	1790	1795	1794	1742	1641	1511	1338	1126
0°	1756	1797	1790	1797	1790	1797	1756	1655	1525	1354	1141
-2.5°	1742	1794	1795	1790	1795	1794	1742	1641	1511	1338	1126
-5°	1699	1771	1794	1797	1794	1771	1699	1599	1466	1290	1081
-7.5°	1627	1699	1742	1756	1742	1699	1627	1526	1388	1210	1010
-10°	1526	1599	1641	1655	1641	1599	1526	1422	1277	1099	912
-12.5°	1388	1466	1511	1525	1511	1466	1388	1277	1132	970	803
-15°	1210	1290	1338	1354	1338	1290	1210	1099	970	827	682
-17.5°	1010	1081	1126	1141	1126	1081	1010	912	803	682	564
-20°	810	869	906	919	906	869	810	731	641	546	450



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	626	673	703	713	703	673	626	566	497	422	348
-25°	468	504	526	533	526	504	468	423	371	316	263
-27.5°	339	363	380	385	380	363	339	306	269	233	192
-30°	240	256	266	269	266	256	240	218	190	165	139
-32.5°	164	174	180	182	180	174	164	150	133	115	99
-35°	111	118	121	123	121	118	111	103	92	80	70
-37.5°	75	79	82	83	82	79	75	70	63	55	48
-40°	50	53	54	55	54	53	50	46	42	37	32
-42.5°	32	34	34	35	34	34	32	30	28	25	23
-45°	22	23	23	24	23	23	22	21	20	18	16
-47.5°	16	16	16	17	16	16	16	15	14	13	12
-50°	12	12	12	12	12	12	12	11	11	10	9
-52.5°	8	9	9	9	9	9	8	8	8	8	7
-55°	7	7	7	7	7	7	7	7	7	6	6
-57.5°	6	6	6	6	6	6	6	6	6	6	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	5
-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°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	3	3	3	4	3	3	3	3	3	3	3
-75°	3	3	3	3	3	3	3	3	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	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	0	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	1	1	1	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	1	1
75°	2	2	2	2	2	2	2	2	2	2	2
72.5°	3	3	3	3	3	2	2	2	2	2	2
70°	4	4	4	4	3	3	3	3	3	2	2
67.5°	4	4	4	4	4	4	4	4	3	3	3
65°	4	4	4	4	4	4	4	4	4	4	3
62.5°	5	4	4	4	4	4	4	4	4	4	4
60°	5	5	5	5	5	4	4	4	4	4	4
57.5°	5	5	5	5	5	5	5	4	4	4	4
55°	6	6	6	5	5	5	5	5	5	4	4
52.5°	7	7	6	6	6	6	5	5	5	5	4
50°	8	8	7	7	7	6	6	5	5	5	5
47.5°	11	10	9	8	7	7	6	6	6	5	5
45°	15	14	12	11	9	8	7	7	6	6	5
42.5°	20	18	16	14	12	10	8	7	7	6	6
40°	28	24	21	17	15	13	11	9	8	7	6
37.5°	40	33	28	23	19	16	13	11	9	7	7
35°	58	48	38	31	24	20	16	13	11	8	7
32.5°	82	68	54	42	32	25	20	16	13	10	8
30°	114	93	74	57	43	32	24	19	15	12	9
27.5°	158	123	99	76	57	42	31	23	17	14	11
25°	213	167	128	99	74	54	38	28	21	16	12
22.5°	280	221	167	123	93	68	48	33	24	18	14
20°	359	280	213	158	114	82	58	40	28	20	15
17.5°	450	348	263	192	139	99	70	48	32	23	16
15°	546	422	316	233	165	115	80	55	37	25	18
12.5°	641	497	371	269	190	133	92	63	42	28	20
10°	731	566	423	306	218	150	103	70	46	30	21
7.5°	810	626	468	339	240	164	111	75	50	32	22
5°	869	673	504	363	256	174	118	79	53	34	23
2.5°	906	703	526	380	266	180	121	82	54	34	23
0°	919	713	533	385	269	182	123	83	55	35	24
-2.5°	906	703	526	380	266	180	121	82	54	34	23
-5°	869	673	504	363	256	174	118	79	53	34	23
-7.5°	810	626	468	339	240	164	111	75	50	32	22
-10°	731	566	423	306	218	150	103	70	46	30	21
-12.5°	641	497	371	269	190	133	92	63	42	28	20
-15°	546	422	316	233	165	115	80	55	37	25	18
-17.5°	450	348	263	192	139	99	70	48	32	23	16
-20°	359	280	213	158	114	82	58	40	28	20	15



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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°	280	221	167	123	93	68	48	33	24	18	14
-25°	213	167	128	99	74	54	38	28	21	16	12
-27.5°	158	123	99	76	57	42	31	23	17	14	11
-30°	114	93	74	57	43	32	24	19	15	12	9
-32.5°	82	68	54	42	32	25	20	16	13	10	8
-35°	58	48	38	31	24	20	16	13	11	8	7
-37.5°	40	33	28	23	19	16	13	11	9	7	7
-40°	28	24	21	17	15	13	11	9	8	7	6
-42.5°	20	18	16	14	12	10	8	7	7	6	6
-45°	15	14	12	11	9	8	7	7	6	6	5
-47.5°	11	10	9	8	7	7	6	6	6	5	5
-50°	8	8	7	7	7	6	6	5	5	5	5
-52.5°	7	7	6	6	6	6	5	5	5	5	4
-55°	6	6	6	5	5	5	5	5	5	4	4
-57.5°	5	5	5	5	5	5	5	4	4	4	4
-60°	5	5	5	5	5	4	4	4	4	4	4
-62.5°	5	4	4	4	4	4	4	4	4	4	4
-65°	4	4	4	4	4	4	4	4	4	4	3
-67.5°	4	4	4	4	4	4	4	4	3	3	3
-70°	4	4	4	4	3	3	3	3	3	2	2
-72.5°	3	3	3	3	3	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	2	1	1
-80°	2	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	1	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	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	2	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°	3	2	2	2	2	2	2	1	1	1	1
65°	3	3	3	2	2	2	2	2	1	1	1
62.5°	4	3	3	3	2	2	2	2	2	1	1
60°	4	4	4	3	3	2	2	2	2	2	1
57.5°	4	4	4	4	3	3	2	2	2	2	1
55°	4	4	4	4	4	3	3	2	2	2	2
52.5°	4	4	4	4	4	4	3	3	2	2	2
50°	5	4	4	4	4	4	3	3	2	2	2
47.5°	5	5	4	4	4	4	4	3	3	2	2
45°	5	5	4	4	4	4	4	3	3	2	2
42.5°	5	5	5	4	4	4	4	4	3	2	2
40°	6	5	5	5	4	4	4	4	3	3	2
37.5°	6	5	5	5	4	4	4	4	4	3	2
35°	6	6	5	5	5	4	4	4	4	3	2
32.5°	7	6	6	5	5	4	4	4	4	3	2
30°	7	7	6	5	5	5	4	4	4	3	3
27.5°	8	7	6	5	5	5	4	4	4	4	3
25°	9	7	6	6	5	5	4	4	4	4	3
22.5°	10	8	7	6	5	5	4	4	4	4	3
20°	11	8	7	6	5	5	5	4	4	4	3
17.5°	12	9	7	6	5	5	5	4	4	4	3
15°	13	10	8	6	6	5	5	4	4	4	3
12.5°	14	11	8	7	6	5	5	4	4	4	3
10°	15	11	8	7	6	5	5	4	4	4	3
7.5°	16	12	8	7	6	5	5	4	4	4	3
5°	16	12	9	7	6	5	5	4	4	4	3
2.5°	16	12	9	7	6	5	5	4	4	4	3
0°	17	12	9	7	6	5	5	4	4	4	4
-2.5°	16	12	9	7	6	5	5	4	4	4	3
-5°	16	12	9	7	6	5	5	4	4	4	3
-7.5°	16	12	8	7	6	5	5	4	4	4	3
-10°	15	11	8	7	6	5	5	4	4	4	3
-12.5°	14	11	8	7	6	5	5	4	4	4	3
-15°	13	10	8	6	6	5	5	4	4	4	3
-17.5°	12	9	7	6	5	5	5	4	4	4	3
-20°	11	8	7	6	5	5	5	4	4	4	3



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	8	7	6	5	5	4	4	4	4	3
-25°	9	7	6	6	5	5	4	4	4	4	3
-27.5°	8	7	6	5	5	5	4	4	4	4	3
-30°	7	7	6	5	5	5	4	4	4	3	3
-32.5°	7	6	6	5	5	4	4	4	4	3	2
-35°	6	6	5	5	5	4	4	4	4	3	2
-37.5°	6	5	5	5	4	4	4	4	4	3	2
-40°	6	5	5	5	4	4	4	4	3	3	2
-42.5°	5	5	5	4	4	4	4	4	3	2	2
-45°	5	5	4	4	4	4	4	3	3	2	2
-47.5°	5	5	4	4	4	4	4	3	3	2	2
-50°	5	4	4	4	4	4	3	3	2	2	2
-52.5°	4	4	4	4	4	4	3	3	2	2	2
-55°	4	4	4	4	4	3	3	2	2	2	2
-57.5°	4	4	4	4	3	3	2	2	2	2	1
-60°	4	4	4	3	3	2	2	2	2	2	1
-62.5°	4	3	3	3	2	2	2	2	2	1	1
-65°	3	3	3	2	2	2	2	2	1	1	1
-67.5°	3	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	2	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	1	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: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	0	0	0
55°	1	1	1	1	0	0	0
52.5°	1	1	1	1	0	0	0
50°	2	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	2	1	1	0	0	0
37.5°	2	2	1	1	1	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	2	1	1	0	0
17.5°	2	2	2	1	1	0	0
15°	2	2	2	1	1	0	0
12.5°	2	2	2	1	1	0	0
10°	3	2	2	1	1	0	0
7.5°	3	2	2	1	1	0	0
5°	3	2	2	1	1	0	0
2.5°	3	2	2	1	1	0	0
0°	3	2	2	1	1	0	0
-2.5°	3	2	2	1	1	0	0
-5°	3	2	2	1	1	0	0
-7.5°	3	2	2	1	1	0	0
-10°	3	2	2	1	1	0	0
-12.5°	2	2	2	1	1	0	0
-15°	2	2	2	1	1	0	0
-17.5°	2	2	2	1	1	0	0
-20°	2	2	2	1	1	0	0



REPORT NUMBER: P220387 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-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	1	0	0
-40°	2	2	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°	2	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	1	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)