

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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
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-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	854.2 lumens	Max Intensity:	4794.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23°H x 23°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	445.9 lumens	Field Lumens:	684.7 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%

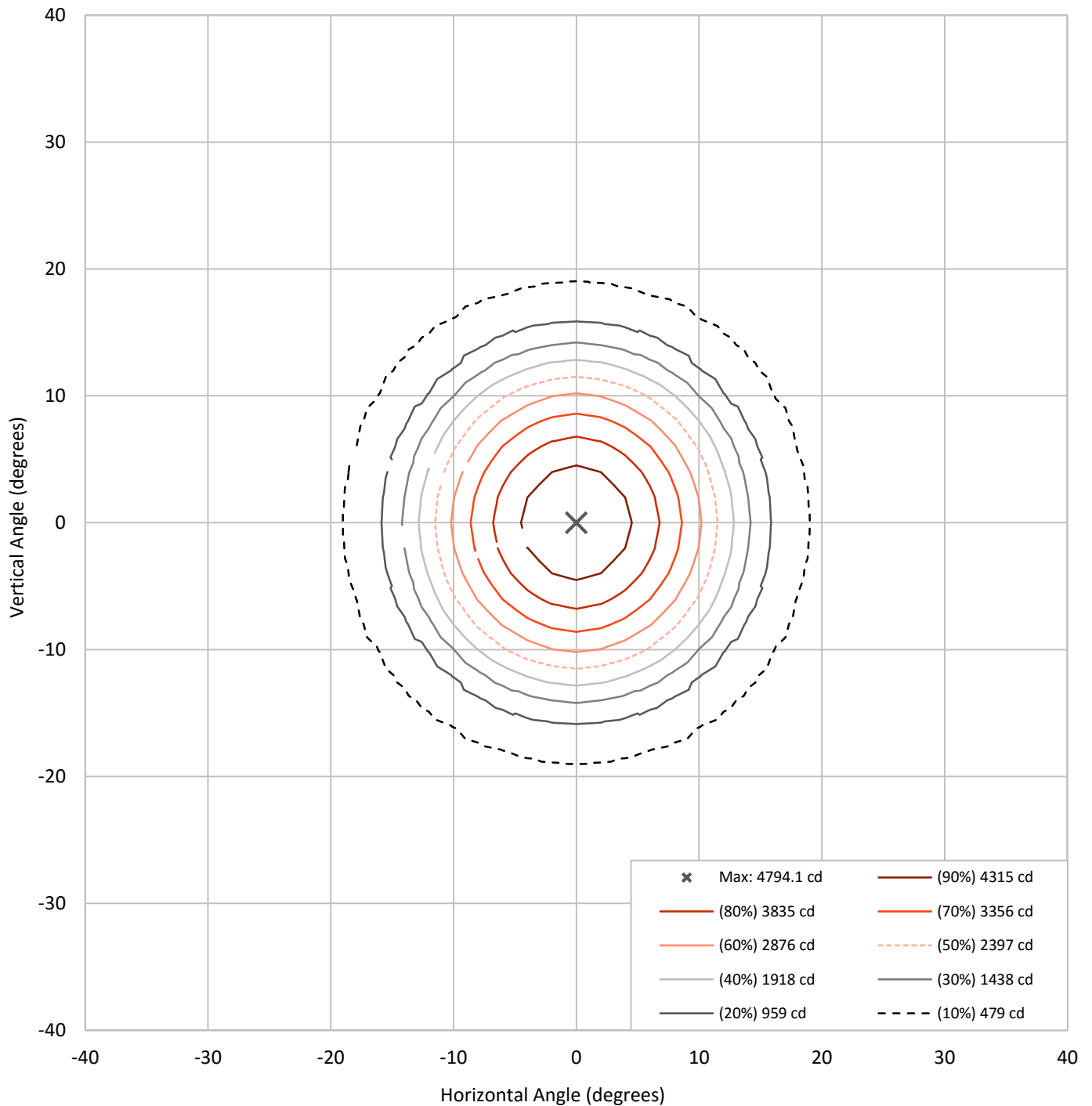
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





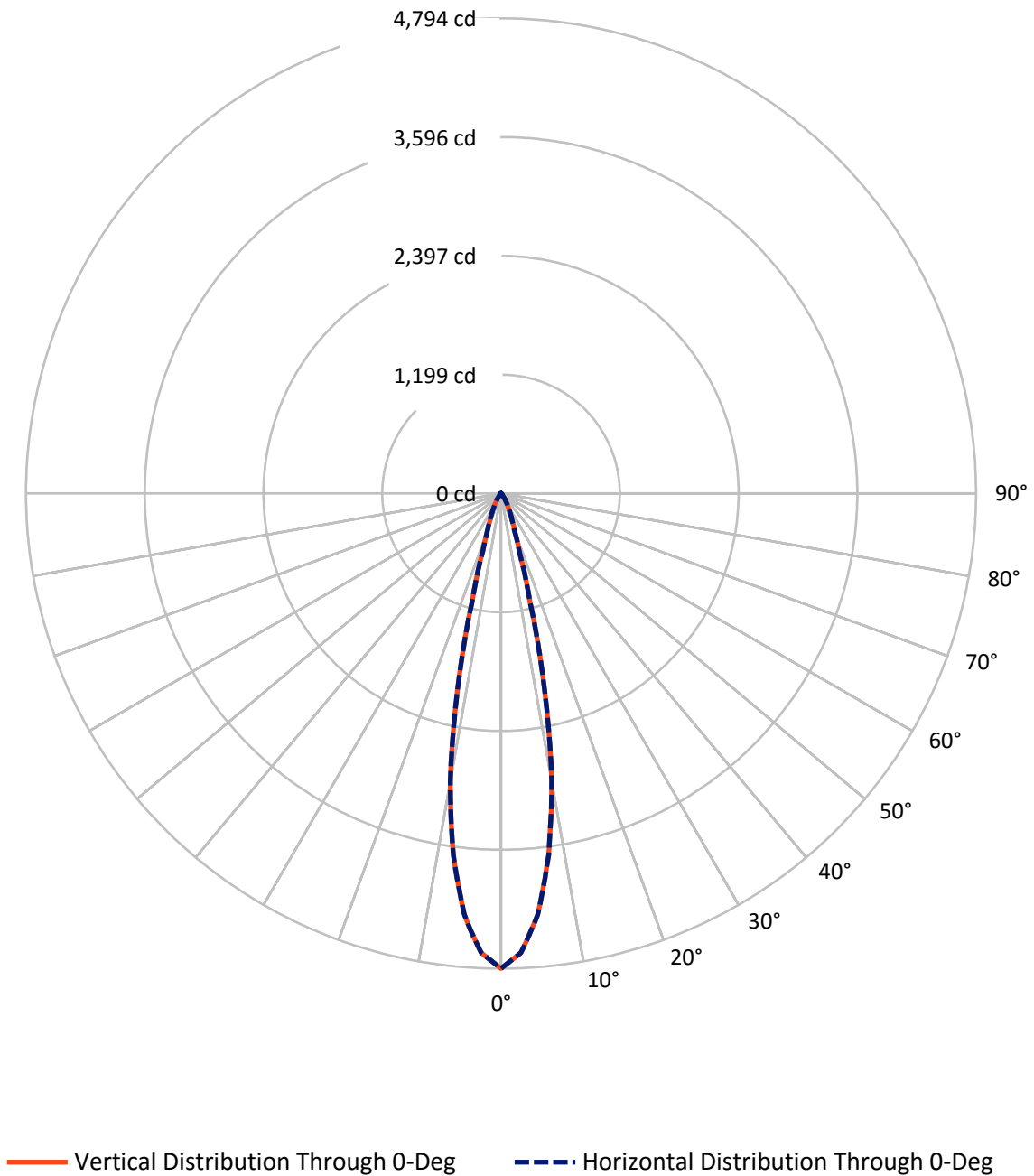
REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-BK-L1-UNV

Lumen Table

90	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	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	0.0	0.0	0.0
70	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	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	0.0	0.0	0.0	0.0	0.0		
50	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.2	0.5	1.1	1.7	1.7	1.1	0.5	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.4	1.7	4.1	6.5	6.5	4.1	1.7	0.4	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	0.9	3.9	11.6	33.2	33.2	11.6	3.9	0.9	0.2	0.0	0.0		
10	0.0	0.0	0.0	0.2	1.4	5.9	32.4	106.2	106.2	32.4	5.9	1.4	0.2	0.0	0.0	0.0	
0		0.0	0.0	0.2	1.4	5.9	32.4	106.2	106.2	32.4	5.9	1.4	0.2	0.0	0.0		
-10	0.0	0.0	0.0	0.2	0.9	3.9	11.6	33.2	33.2	11.6	3.9	0.9	0.2	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.4	1.7	4.1	6.5	6.5	4.1	1.7	0.4	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.2	0.5	1.1	1.7	1.7	1.1	0.5	0.2	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0		
-50	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		
-60		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			
-70	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	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			
-90	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	0.0	0.0	

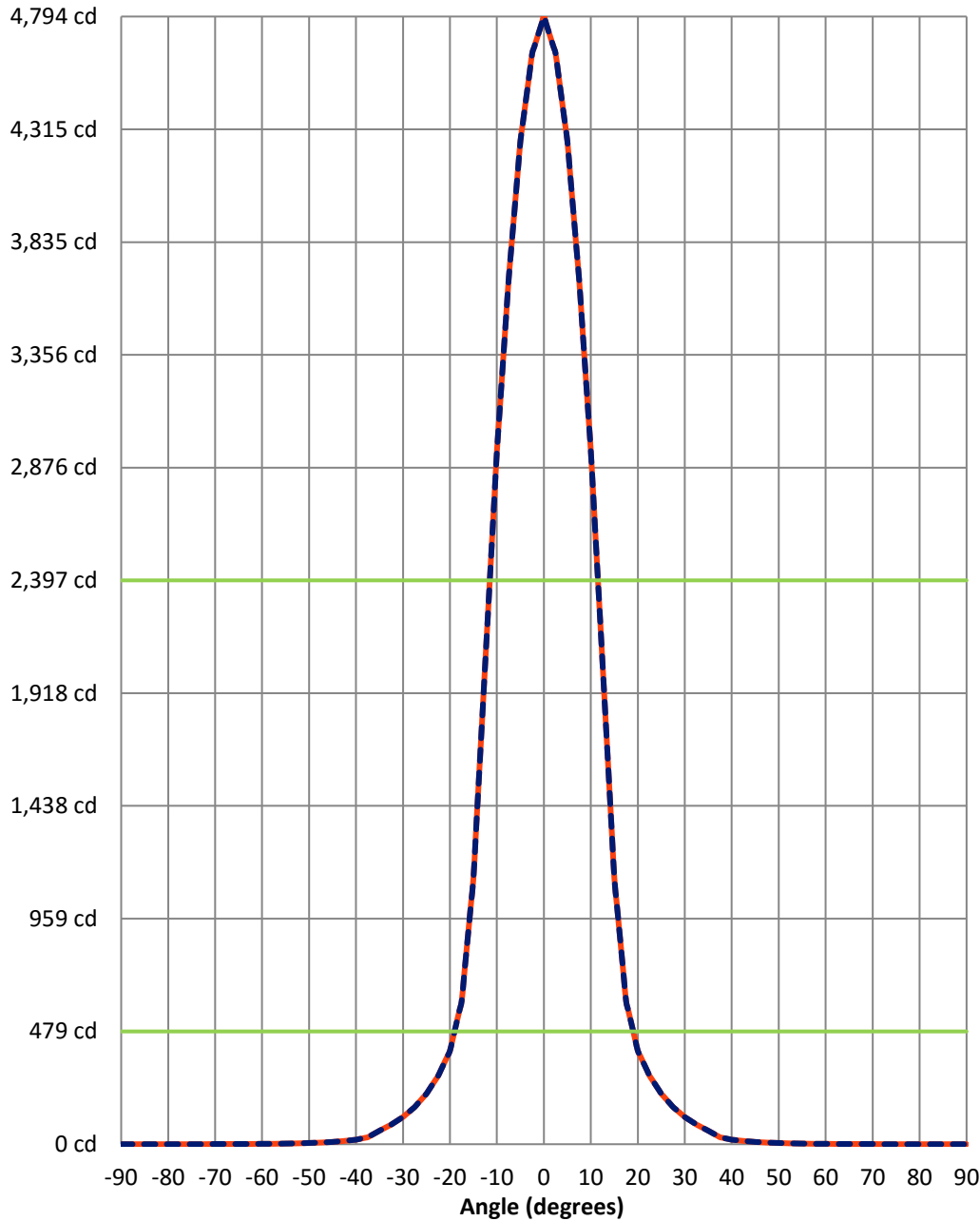
REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-BK-L1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
 H Angle: 23°
 V Angle: 23°
 Lumens: 445.9
 Efficiency: 52.2%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 684.7
 Efficiency: 80.2%

Spill:
 Lumens: 169.5
 Efficiency: 19.8%

— 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	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	0
45°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	1
37.5°	0	0	0	0	0	0	0	0	0	0	1
35°	0	0	0	0	0	0	0	0	0	0	1
32.5°	0	0	0	0	0	0	0	0	0	0	1
30°	0	0	0	0	0	0	0	0	0	1	1
27.5°	0	0	0	0	0	0	0	0	0	1	1
25°	0	0	0	0	0	0	0	0	0	1	1
22.5°	0	0	0	0	0	0	0	0	0	1	1
20°	0	0	0	0	0	0	0	0	0	1	1
17.5°	0	0	0	0	0	0	0	0	1	1	1
15°	0	0	0	0	0	0	0	0	1	1	1
12.5°	0	0	0	0	0	0	0	0	1	1	1
10°	0	0	0	0	0	0	0	0	1	1	1
7.5°	0	0	0	0	0	0	0	0	1	1	1
5°	0	0	0	0	0	0	0	0	1	1	1
2.5°	0	0	0	0	0	0	0	0	1	1	1
0°	0	0	0	0	0	0	0	0	1	1	1
-2.5°	0	0	0	0	0	0	0	0	1	1	1
-5°	0	0	0	0	0	0	0	0	1	1	1
-7.5°	0	0	0	0	0	0	0	0	1	1	1
-10°	0	0	0	0	0	0	0	0	1	1	1
-12.5°	0	0	0	0	0	0	0	0	1	1	1
-15°	0	0	0	0	0	0	0	0	1	1	1
-17.5°	0	0	0	0	0	0	0	0	1	1	1
-20°	0	0	0	0	0	0	0	0	0	1	1



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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	0	1	1
-25°	0	0	0	0	0	0	0	0	0	1	1
-27.5°	0	0	0	0	0	0	0	0	0	1	1
-30°	0	0	0	0	0	0	0	0	0	1	1
-32.5°	0	0	0	0	0	0	0	0	0	0	1
-35°	0	0	0	0	0	0	0	0	0	0	1
-37.5°	0	0	0	0	0	0	0	0	0	0	1
-40°	0	0	0	0	0	0	0	0	0	0	1
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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	0	0
65°	0	0	0	0	0	0	0	0	0	1	1
62.5°	0	0	0	0	0	0	0	1	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	1
55°	0	0	0	1	1	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	0	0	1	1	1	1	1	1	1	2	2
47.5°	0	1	1	1	1	1	1	1	2	2	2
45°	1	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	2	2	2	2	3
40°	1	1	1	1	1	2	2	2	2	3	3
37.5°	1	1	1	1	1	2	2	2	3	3	5
35°	1	1	1	1	2	2	2	3	3	4	6
32.5°	1	1	1	1	2	2	3	3	4	5	7
30°	1	1	1	2	2	2	3	4	5	6	8
27.5°	1	1	1	2	2	3	3	4	6	7	9
25°	1	1	1	2	2	3	4	5	7	8	11
22.5°	1	1	2	2	2	3	4	6	7	10	13
20°	1	1	2	2	3	3	5	6	8	11	15
17.5°	1	1	2	2	3	4	5	7	9	13	17
15°	1	1	2	2	3	4	6	8	10	14	19
12.5°	1	1	2	2	3	4	6	8	11	16	22
10°	1	2	2	2	3	5	6	9	12	17	25
7.5°	1	2	2	2	3	5	7	9	13	18	27
5°	1	2	2	3	3	5	7	9	13	19	28
2.5°	1	2	2	3	3	5	7	10	14	19	29
0°	1	2	2	3	4	5	7	10	14	19	30
-2.5°	1	2	2	3	3	5	7	10	14	19	29
-5°	1	2	2	3	3	5	7	9	13	19	28
-7.5°	1	2	2	2	3	5	7	9	13	18	27
-10°	1	2	2	2	3	5	6	9	12	17	25
-12.5°	1	1	2	2	3	4	6	8	11	16	22
-15°	1	1	2	2	3	4	6	8	10	14	19
-17.5°	1	1	2	2	3	4	5	7	9	13	17
-20°	1	1	2	2	3	3	5	6	8	11	15



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	1	1	2	2	2	3	4	6	7	10	13
-25°	1	1	1	2	2	3	4	5	7	8	11
-27.5°	1	1	1	2	2	3	3	4	6	7	9
-30°	1	1	1	2	2	2	3	4	5	6	8
-32.5°	1	1	1	1	2	2	3	3	4	5	7
-35°	1	1	1	1	2	2	2	3	3	4	6
-37.5°	1	1	1	1	1	2	2	2	3	3	5
-40°	1	1	1	1	1	2	2	2	2	3	3
-42.5°	1	1	1	1	1	1	2	2	2	2	3
-45°	1	1	1	1	1	1	1	2	2	2	2
-47.5°	0	1	1	1	1	1	1	1	2	2	2
-50°	0	0	1	1	1	1	1	1	1	2	2
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	1	1	1	1	1	1	1	1
-57.5°	0	0	0	0	1	1	1	1	1	1	1
-60°	0	0	0	0	0	0	1	1	1	1	1
-62.5°	0	0	0	0	0	0	0	1	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	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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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	0	0	0	0
70°	0	0	0	0	0	0	0	1	1	1	1
67.5°	0	0	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	2
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	3	3	3	3	3
50°	2	2	2	3	3	3	3	4	4	4	5
47.5°	2	3	3	3	4	4	5	5	6	6	6
45°	3	3	4	4	5	6	6	7	8	8	9
42.5°	3	4	5	6	7	7	8	9	10	11	12
40°	4	5	6	7	8	10	11	13	14	16	17
37.5°	6	7	8	9	11	13	15	17	19	22	25
35°	7	8	10	12	15	17	20	25	29	36	44
32.5°	8	10	13	16	19	24	29	41	52	62	69
30°	10	13	16	20	26	37	51	64	76	86	97
27.5°	12	16	20	27	41	58	73	87	102	115	129
25°	15	19	26	41	60	77	95	113	133	153	172
22.5°	17	24	37	58	77	98	119	145	172	200	229
20°	20	29	51	73	95	119	149	182	220	262	301
17.5°	25	41	64	87	113	145	182	228	279	338	394
15°	29	52	76	102	133	172	220	279	351	431	549
12.5°	36	62	86	115	153	200	262	338	431	595	876
10°	44	69	97	129	172	229	301	394	549	876	1428
7.5°	50	75	105	141	189	256	342	458	725	1281	2049
5°	54	80	111	150	203	275	372	529	920	1674	2545
2.5°	56	83	114	156	212	287	391	587	1077	1945	2843
0°	57	83	116	158	215	291	397	609	1131	2040	2946
-2.5°	56	83	114	156	212	287	391	587	1077	1945	2843
-5°	54	80	111	150	203	275	372	529	920	1674	2545
-7.5°	50	75	105	141	189	256	342	458	725	1281	2049
-10°	44	69	97	129	172	229	301	394	549	876	1428
-12.5°	36	62	86	115	153	200	262	338	431	595	876
-15°	29	52	76	102	133	172	220	279	351	431	549
-17.5°	25	41	64	87	113	145	182	228	279	338	394
-20°	20	29	51	73	95	119	149	182	220	262	301



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17	24	37	58	77	98	119	145	172	200	229
-25°	15	19	26	41	60	77	95	113	133	153	172
-27.5°	12	16	20	27	41	58	73	87	102	115	129
-30°	10	13	16	20	26	37	51	64	76	86	97
-32.5°	8	10	13	16	19	24	29	41	52	62	69
-35°	7	8	10	12	15	17	20	25	29	36	44
-37.5°	6	7	8	9	11	13	15	17	19	22	25
-40°	4	5	6	7	8	10	11	13	14	16	17
-42.5°	3	4	5	6	7	7	8	9	10	11	12
-45°	3	3	4	4	5	6	6	7	8	8	9
-47.5°	2	3	3	3	4	4	5	5	6	6	6
-50°	2	2	2	3	3	3	3	4	4	4	5
-52.5°	2	2	2	2	2	2	3	3	3	3	3
-55°	1	1	2	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	2	2	2	2	2	2
-60°	1	1	1	1	1	1	1	1	1	1	2
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	0	0	1	1	1	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	1	1	1	1
-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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	0	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	2	2	2	2	2	2	2	2	1	1	1
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	3	3	3	3	3	2	2	2	2	2
52.5°	3	3	3	4	3	3	3	3	3	3	3
50°	5	5	5	5	5	5	5	5	4	4	4
47.5°	7	7	7	7	7	7	7	6	6	6	5
45°	9	9	10	10	10	9	9	9	8	8	7
42.5°	13	13	14	14	14	13	13	12	11	10	9
40°	18	19	19	19	19	19	18	17	16	14	13
37.5°	27	28	29	30	29	28	27	25	22	19	17
35°	50	54	56	57	56	54	50	44	36	29	25
32.5°	75	80	83	83	83	80	75	69	62	52	41
30°	105	111	114	116	114	111	105	97	86	76	64
27.5°	141	150	156	158	156	150	141	129	115	102	87
25°	189	203	212	215	212	203	189	172	153	133	113
22.5°	256	275	287	291	287	275	256	229	200	172	145
20°	342	372	391	397	391	372	342	301	262	220	182
17.5°	458	529	587	609	587	529	458	394	338	279	228
15°	725	920	1077	1131	1077	920	725	549	431	351	279
12.5°	1281	1674	1945	2040	1945	1674	1281	876	595	431	338
10°	2049	2545	2843	2946	2843	2545	2049	1428	876	549	394
7.5°	2746	3252	3570	3677	3570	3252	2746	2049	1281	725	458
5°	3252	3793	4138	4264	4138	3793	3252	2545	1674	920	529
2.5°	3570	4138	4510	4636	4510	4138	3570	2843	1945	1077	587
0°	3677	4264	4636	4794	4636	4264	3677	2946	2040	1131	609
-2.5°	3570	4138	4510	4636	4510	4138	3570	2843	1945	1077	587
-5°	3252	3793	4138	4264	4138	3793	3252	2545	1674	920	529
-7.5°	2746	3252	3570	3677	3570	3252	2746	2049	1281	725	458
-10°	2049	2545	2843	2946	2843	2545	2049	1428	876	549	394
-12.5°	1281	1674	1945	2040	1945	1674	1281	876	595	431	338
-15°	725	920	1077	1131	1077	920	725	549	431	351	279
-17.5°	458	529	587	609	587	529	458	394	338	279	228
-20°	342	372	391	397	391	372	342	301	262	220	182



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	256	275	287	291	287	275	256	229	200	172	145
-25°	189	203	212	215	212	203	189	172	153	133	113
-27.5°	141	150	156	158	156	150	141	129	115	102	87
-30°	105	111	114	116	114	111	105	97	86	76	64
-32.5°	75	80	83	83	83	80	75	69	62	52	41
-35°	50	54	56	57	56	54	50	44	36	29	25
-37.5°	27	28	29	30	29	28	27	25	22	19	17
-40°	18	19	19	19	19	19	18	17	16	14	13
-42.5°	13	13	14	14	14	13	13	12	11	10	9
-45°	9	9	10	10	10	9	9	9	8	8	7
-47.5°	7	7	7	7	7	7	7	6	6	6	5
-50°	5	5	5	5	5	5	5	5	4	4	4
-52.5°	3	3	3	4	3	3	3	3	3	3	3
-55°	2	3	3	3	3	3	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	1	1	1	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	0	0	0	0	0	0	0	0	0	0	0
67.5°	1	1	1	1	1	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	2	2	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	2	1	1	1	1	1	1
52.5°	3	2	2	2	2	2	2	1	1	1	1
50°	3	3	3	3	2	2	2	2	2	1	1
47.5°	5	4	4	3	3	3	2	2	2	2	1
45°	6	6	5	4	4	3	3	2	2	2	2
42.5°	8	7	7	6	5	4	3	3	2	2	2
40°	11	10	8	7	6	5	4	3	3	2	2
37.5°	15	13	11	9	8	7	6	5	3	3	2
35°	20	17	15	12	10	8	7	6	4	3	3
32.5°	29	24	19	16	13	10	8	7	5	4	3
30°	51	37	26	20	16	13	10	8	6	5	4
27.5°	73	58	41	27	20	16	12	9	7	6	4
25°	95	77	60	41	26	19	15	11	8	7	5
22.5°	119	98	77	58	37	24	17	13	10	7	6
20°	149	119	95	73	51	29	20	15	11	8	6
17.5°	182	145	113	87	64	41	25	17	13	9	7
15°	220	172	133	102	76	52	29	19	14	10	8
12.5°	262	200	153	115	86	62	36	22	16	11	8
10°	301	229	172	129	97	69	44	25	17	12	9
7.5°	342	256	189	141	105	75	50	27	18	13	9
5°	372	275	203	150	111	80	54	28	19	13	9
2.5°	391	287	212	156	114	83	56	29	19	14	10
0°	397	291	215	158	116	83	57	30	19	14	10
-2.5°	391	287	212	156	114	83	56	29	19	14	10
-5°	372	275	203	150	111	80	54	28	19	13	9
-7.5°	342	256	189	141	105	75	50	27	18	13	9
-10°	301	229	172	129	97	69	44	25	17	12	9
-12.5°	262	200	153	115	86	62	36	22	16	11	8
-15°	220	172	133	102	76	52	29	19	14	10	8
-17.5°	182	145	113	87	64	41	25	17	13	9	7
-20°	149	119	95	73	51	29	20	15	11	8	6



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	119	98	77	58	37	24	17	13	10	7	6
-25°	95	77	60	41	26	19	15	11	8	7	5
-27.5°	73	58	41	27	20	16	12	9	7	6	4
-30°	51	37	26	20	16	13	10	8	6	5	4
-32.5°	29	24	19	16	13	10	8	7	5	4	3
-35°	20	17	15	12	10	8	7	6	4	3	3
-37.5°	15	13	11	9	8	7	6	5	3	3	2
-40°	11	10	8	7	6	5	4	3	3	2	2
-42.5°	8	7	7	6	5	4	3	3	2	2	2
-45°	6	6	5	4	4	3	3	2	2	2	2
-47.5°	5	4	4	3	3	3	2	2	2	2	1
-50°	3	3	3	3	2	2	2	2	2	1	1
-52.5°	3	2	2	2	2	2	2	1	1	1	1
-55°	2	2	2	2	2	1	1	1	1	1	1
-57.5°	2	2	1	1	1	1	1	1	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	0	0
-67.5°	1	1	1	1	1	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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	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°	1	0	0	0	0	0	0	0	0	0	0
57.5°	1	1	1	0	0	0	0	0	0	0	0
55°	1	1	1	1	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	1	1	1	1	1	0	0	0	0	0	0
47.5°	1	1	1	1	1	1	0	0	0	0	0
45°	1	1	1	1	1	1	1	0	0	0	0
42.5°	2	1	1	1	1	1	1	0	0	0	0
40°	2	2	1	1	1	1	1	1	0	0	0
37.5°	2	2	1	1	1	1	1	1	0	0	0
35°	2	2	2	1	1	1	1	1	0	0	0
32.5°	3	2	2	1	1	1	1	1	0	0	0
30°	3	2	2	2	1	1	1	1	1	0	0
27.5°	3	3	2	2	1	1	1	1	1	0	0
25°	4	3	2	2	1	1	1	1	1	0	0
22.5°	4	3	2	2	2	1	1	1	1	0	0
20°	5	3	3	2	2	1	1	1	1	0	0
17.5°	5	4	3	2	2	1	1	1	1	1	0
15°	6	4	3	2	2	1	1	1	1	1	0
12.5°	6	4	3	2	2	1	1	1	1	1	0
10°	6	5	3	2	2	2	1	1	1	1	0
7.5°	7	5	3	2	2	2	1	1	1	1	0
5°	7	5	3	3	2	2	1	1	1	1	0
2.5°	7	5	3	3	2	2	1	1	1	1	0
0°	7	5	4	3	2	2	1	1	1	1	0
-2.5°	7	5	3	3	2	2	1	1	1	1	0
-5°	7	5	3	3	2	2	1	1	1	1	0
-7.5°	7	5	3	2	2	2	1	1	1	1	0
-10°	6	5	3	2	2	2	1	1	1	1	0
-12.5°	6	4	3	2	2	1	1	1	1	1	0
-15°	6	4	3	2	2	1	1	1	1	1	0
-17.5°	5	4	3	2	2	1	1	1	1	1	0
-20°	5	3	3	2	2	1	1	1	1	0	0



REPORT NUMBER: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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°	4	3	2	2	2	1	1	1	1	0	0
-25°	4	3	2	2	1	1	1	1	1	0	0
-27.5°	3	3	2	2	1	1	1	1	1	0	0
-30°	3	2	2	2	1	1	1	1	1	0	0
-32.5°	3	2	2	1	1	1	1	1	0	0	0
-35°	2	2	2	1	1	1	1	1	0	0	0
-37.5°	2	2	1	1	1	1	1	1	0	0	0
-40°	2	2	1	1	1	1	1	1	0	0	0
-42.5°	2	1	1	1	1	1	1	0	0	0	0
-45°	1	1	1	1	1	1	1	0	0	0	0
-47.5°	1	1	1	1	1	1	0	0	0	0	0
-50°	1	1	1	1	1	0	0	0	0	0	0
-52.5°	1	1	1	1	1	0	0	0	0	0	0
-55°	1	1	1	1	0	0	0	0	0	0	0
-57.5°	1	1	1	0	0	0	0	0	0	0	0
-60°	1	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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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: P220411 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-M-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)