

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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
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-S-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	397.1 lumens	Max Intensity:	5252.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	39.7 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14°H x 14°V	Field Angle (10%):	24.9°H x 24.9°V
Beam Lumens:	163.7 lumens	Field Lumens:	305.1 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%

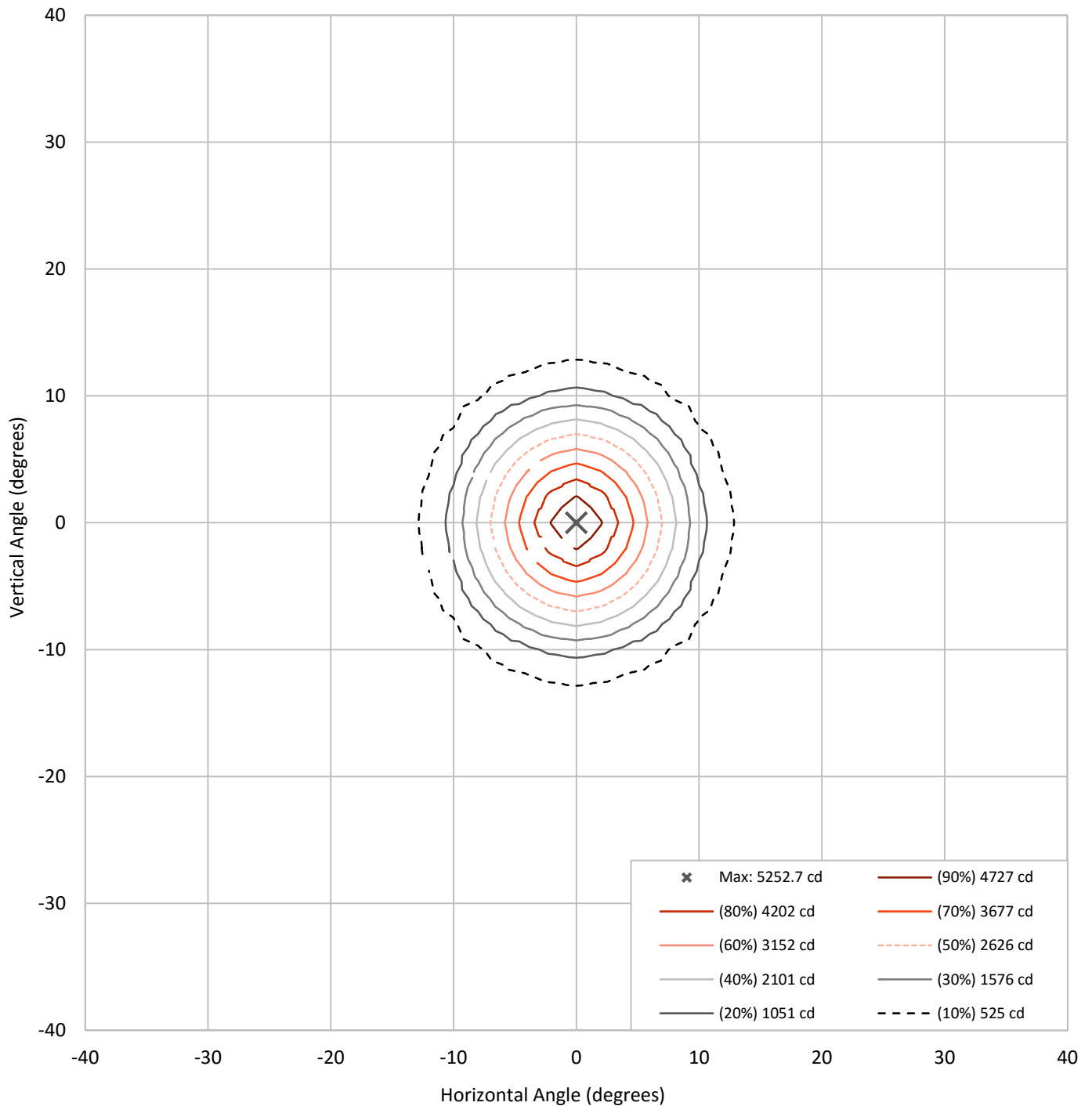
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





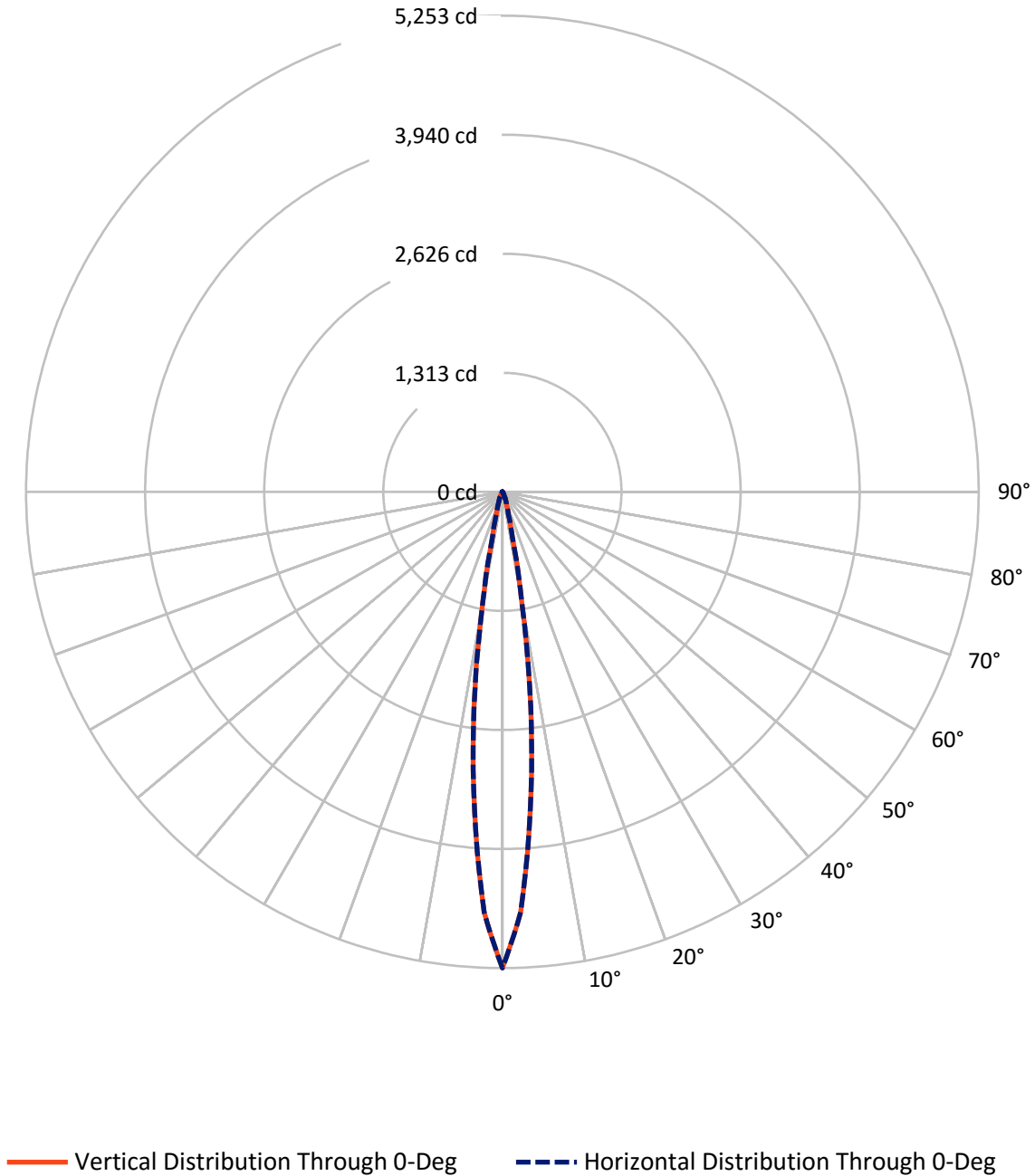
REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-BK-L1-UNV

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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	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		
30	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.7	1.7	0.8	0.3	0.1	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	0.8	3.2	9.0	9.0	3.2	0.8	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.2	1.5	8.8	70.5	70.5	8.8	1.5	0.2	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.2	1.5	8.8	70.5	70.5	8.8	1.5	0.2	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	0.8	3.2	9.0	9.0	3.2	0.8	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.7	1.7	0.8	0.3	0.1	0.1	0.0	0.0		
-30	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	0.0	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	0.0	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	0.0	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	
-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	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	

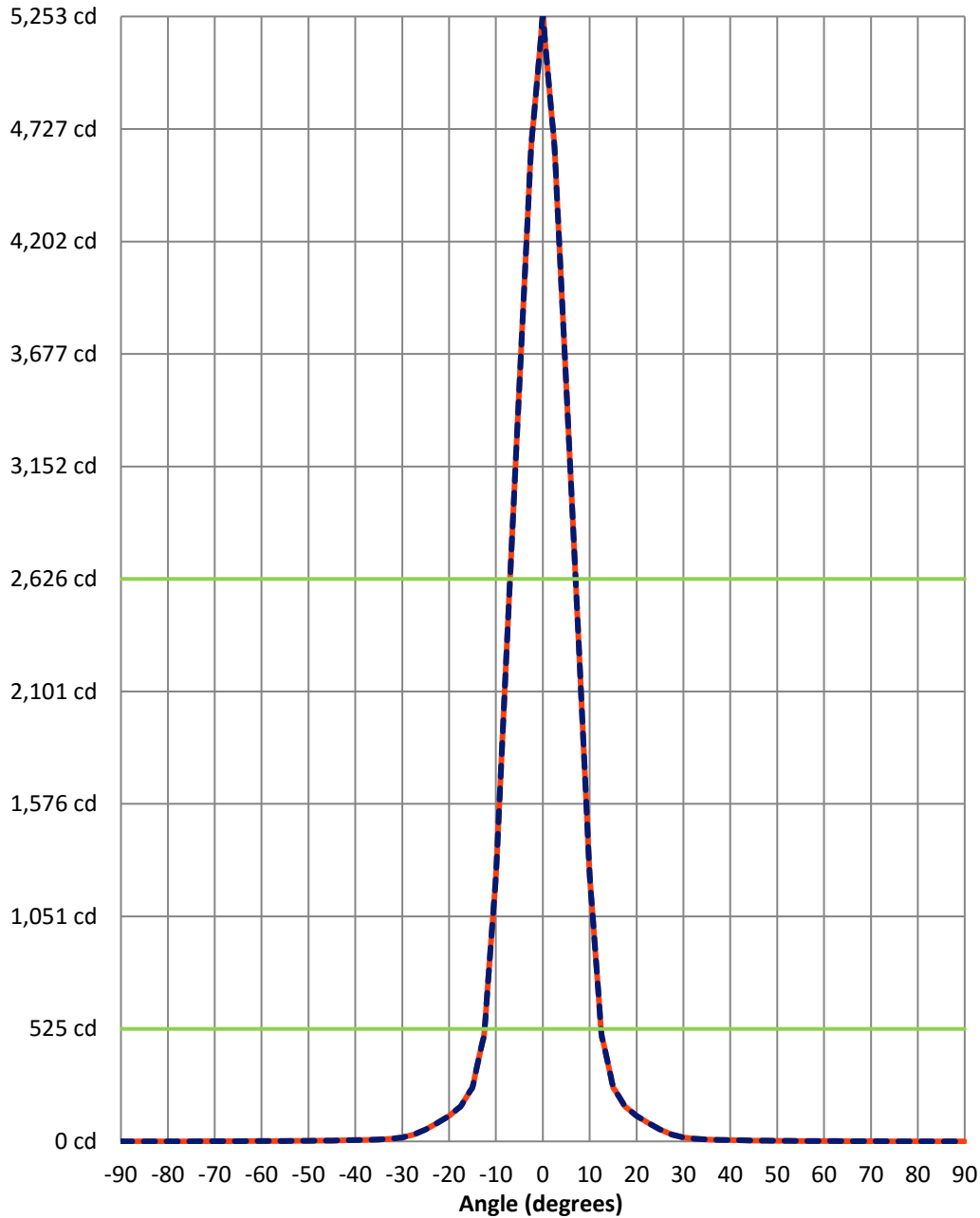
REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-BK-L1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
H Angle: 14°
V Angle: 14°
Lumens: 163.7
Efficiency: 41.2%

Field:
H Angle: 24.9°
V Angle: 24.9°
Lumens: 305.1
Efficiency: 76.8%

Spill:
Lumens: 92
Efficiency: 23.2%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	1
32.5°	0	0	0	0	0	0	0	0	1	1	1
30°	0	0	0	0	0	0	0	0	1	1	1
27.5°	0	0	0	0	0	0	0	0	1	1	1
25°	0	0	0	0	0	0	0	0	1	1	1
22.5°	0	0	0	0	0	0	0	0	1	1	1
20°	0	0	0	0	0	0	0	1	1	1	1
17.5°	0	0	0	0	0	0	0	1	1	1	1
15°	0	0	0	0	0	0	0	1	1	1	1
12.5°	0	0	0	0	0	0	0	1	1	1	1
10°	0	0	0	0	0	0	0	1	1	1	1
7.5°	0	0	0	0	0	0	0	1	1	1	1
5°	0	0	0	0	0	0	0	1	1	1	1
2.5°	0	0	0	0	0	0	0	1	1	1	1
0°	0	0	0	0	0	0	0	1	1	1	1
-2.5°	0	0	0	0	0	0	0	1	1	1	1
-5°	0	0	0	0	0	0	0	1	1	1	1
-7.5°	0	0	0	0	0	0	0	1	1	1	1
-10°	0	0	0	0	0	0	0	1	1	1	1
-12.5°	0	0	0	0	0	0	0	1	1	1	1
-15°	0	0	0	0	0	0	0	1	1	1	1
-17.5°	0	0	0	0	0	0	0	1	1	1	1
-20°	0	0	0	0	0	0	0	1	1	1	1



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	1	1
-25°	0	0	0	0	0	0	0	0	1	1	1
-27.5°	0	0	0	0	0	0	0	0	1	1	1
-30°	0	0	0	0	0	0	0	0	1	1	1
-32.5°	0	0	0	0	0	0	0	0	1	1	1
-35°	0	0	0	0	0	0	0	0	0	1	1
-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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	1	1	1	1	1	1	1	1	1
55°	0	1	1	1	1	1	1	1	1	1	2
52.5°	0	1	1	1	1	1	1	1	1	2	2
50°	1	1	1	1	1	1	1	2	2	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
45°	1	1	1	1	1	2	2	2	2	2	2
42.5°	1	1	1	1	1	2	2	2	2	2	2
40°	1	1	1	1	2	2	2	2	2	2	3
37.5°	1	1	1	2	2	2	2	2	2	3	3
35°	1	1	1	2	2	2	2	2	2	3	3
32.5°	1	1	2	2	2	2	2	2	3	3	3
30°	1	1	2	2	2	2	2	3	3	3	4
27.5°	1	1	2	2	2	2	2	3	3	4	4
25°	1	2	2	2	2	2	3	3	3	4	4
22.5°	1	2	2	2	2	2	3	3	4	4	5
20°	1	2	2	2	2	2	3	3	4	4	5
17.5°	1	2	2	2	2	3	3	3	4	5	6
15°	1	2	2	2	2	3	3	4	4	5	6
12.5°	1	2	2	2	2	3	3	4	4	6	6
10°	2	2	2	2	2	3	3	4	5	6	7
7.5°	2	2	2	2	2	3	3	4	5	6	7
5°	2	2	2	2	3	3	3	4	5	6	7
2.5°	2	2	2	2	3	3	3	4	5	6	7
0°	2	2	2	2	3	3	4	4	5	6	7
-2.5°	2	2	2	2	3	3	3	4	5	6	7
-5°	2	2	2	2	3	3	3	4	5	6	7
-7.5°	2	2	2	2	2	3	3	4	5	6	7
-10°	2	2	2	2	2	3	3	4	5	6	7
-12.5°	1	2	2	2	2	3	3	4	4	6	6
-15°	1	2	2	2	2	3	3	4	4	5	6
-17.5°	1	2	2	2	2	3	3	3	4	5	6
-20°	1	2	2	2	2	2	3	3	4	4	5



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	2	2	2	2	2	3	3	4	4	5
-25°	1	2	2	2	2	2	3	3	3	4	4
-27.5°	1	1	2	2	2	2	2	3	3	4	4
-30°	1	1	2	2	2	2	2	3	3	3	4
-32.5°	1	1	2	2	2	2	2	2	3	3	3
-35°	1	1	1	2	2	2	2	2	2	3	3
-37.5°	1	1	1	2	2	2	2	2	2	3	3
-40°	1	1	1	1	2	2	2	2	2	2	3
-42.5°	1	1	1	1	1	2	2	2	2	2	2
-45°	1	1	1	1	1	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	2	2	2	2
-52.5°	0	1	1	1	1	1	1	1	1	2	2
-55°	0	1	1	1	1	1	1	1	1	1	2
-57.5°	0	0	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	0	1	1	1	1	1	1
-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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	1	1	1	1	1
70°	0	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	2
60°	1	1	1	1	2	2	2	2	2	2	2
57.5°	1	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	2	2	2	2
50°	2	2	2	2	2	2	2	3	3	3	3
47.5°	2	2	2	2	3	3	3	3	3	3	3
45°	2	2	3	3	3	3	3	3	4	4	4
42.5°	2	3	3	3	3	4	4	4	4	4	5
40°	3	3	3	4	4	4	4	5	5	6	6
37.5°	3	3	4	4	4	5	5	6	6	6	7
35°	3	4	4	5	5	6	6	7	7	7	8
32.5°	4	4	5	6	6	6	7	8	8	9	10
30°	4	5	6	6	7	7	8	10	11	13	15
27.5°	5	6	6	7	8	9	11	13	16	18	23
25°	5	6	7	8	9	11	14	18	24	31	39
22.5°	6	6	7	9	11	15	20	28	38	50	61
20°	6	7	8	11	14	20	29	43	58	74	89
17.5°	7	8	10	13	18	28	43	61	81	101	118
15°	7	8	11	16	24	38	58	81	105	129	156
12.5°	7	9	13	18	31	50	74	101	129	162	219
10°	8	10	15	23	39	61	89	118	156	219	311
7.5°	8	11	16	27	46	72	102	137	192	283	507
5°	8	12	17	30	51	80	111	152	225	373	820
2.5°	9	12	18	32	55	84	117	161	246	462	1128
0°	9	12	18	32	56	86	119	164	254	503	1242
-2.5°	9	12	18	32	55	84	117	161	246	462	1128
-5°	8	12	17	30	51	80	111	152	225	373	820
-7.5°	8	11	16	27	46	72	102	137	192	283	507
-10°	8	10	15	23	39	61	89	118	156	219	311
-12.5°	7	9	13	18	31	50	74	101	129	162	219
-15°	7	8	11	16	24	38	58	81	105	129	156
-17.5°	7	8	10	13	18	28	43	61	81	101	118
-20°	6	7	8	11	14	20	29	43	58	74	89



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6	6	7	9	11	15	20	28	38	50	61
-25°	5	6	7	8	9	11	14	18	24	31	39
-27.5°	5	6	6	7	8	9	11	13	16	18	23
-30°	4	5	6	6	7	7	8	10	11	13	15
-32.5°	4	4	5	6	6	6	7	8	8	9	10
-35°	3	4	4	5	5	6	6	7	7	7	8
-37.5°	3	3	4	4	4	5	5	6	6	6	7
-40°	3	3	3	4	4	4	4	5	5	6	6
-42.5°	2	3	3	3	3	4	4	4	4	4	5
-45°	2	2	3	3	3	3	3	3	4	4	4
-47.5°	2	2	2	2	3	3	3	3	3	3	3
-50°	2	2	2	2	2	2	2	3	3	3	3
-52.5°	2	2	2	2	2	2	2	2	2	2	2
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	1	2	2	2	2	2	2	2	2	2	2
-60°	1	1	1	1	2	2	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	1	1	2
-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°	0	1	1	1	1	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	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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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°	2	2	2	2	2	2	2	2	1	1	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	3	3	3	3	3	2	2	2	2	2
50°	3	3	3	3	3	3	3	3	3	3	3
47.5°	3	3	3	4	3	3	3	3	3	3	3
45°	4	4	4	4	4	4	4	4	4	4	3
42.5°	5	5	5	5	5	5	5	5	4	4	4
40°	6	6	6	6	6	6	6	6	6	5	5
37.5°	7	7	7	7	7	7	7	7	6	6	6
35°	8	8	9	9	9	8	8	8	7	7	7
32.5°	11	12	12	12	12	12	11	10	9	8	8
30°	16	17	18	18	18	17	16	15	13	11	10
27.5°	27	30	32	32	32	30	27	23	18	16	13
25°	46	51	55	56	55	51	46	39	31	24	18
22.5°	72	80	84	86	84	80	72	61	50	38	28
20°	102	111	117	119	117	111	102	89	74	58	43
17.5°	137	152	161	164	161	152	137	118	101	81	61
15°	192	225	246	254	246	225	192	156	129	105	81
12.5°	283	373	462	503	462	373	283	219	162	129	101
10°	507	820	1128	1242	1128	820	507	311	219	156	118
7.5°	1020	1683	2207	2397	2207	1683	1020	507	283	192	137
5°	1683	2601	3268	3530	3268	2601	1683	820	373	225	152
2.5°	2207	3268	4194	4640	4194	3268	2207	1128	462	246	161
0°	2397	3530	4640	5253	4640	3530	2397	1242	503	254	164
-2.5°	2207	3268	4194	4640	4194	3268	2207	1128	462	246	161
-5°	1683	2601	3268	3530	3268	2601	1683	820	373	225	152
-7.5°	1020	1683	2207	2397	2207	1683	1020	507	283	192	137
-10°	507	820	1128	1242	1128	820	507	311	219	156	118
-12.5°	283	373	462	503	462	373	283	219	162	129	101
-15°	192	225	246	254	246	225	192	156	129	105	81
-17.5°	137	152	161	164	161	152	137	118	101	81	61
-20°	102	111	117	119	117	111	102	89	74	58	43



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	72	80	84	86	84	80	72	61	50	38	28
-25°	46	51	55	56	55	51	46	39	31	24	18
-27.5°	27	30	32	32	32	30	27	23	18	16	13
-30°	16	17	18	18	18	17	16	15	13	11	10
-32.5°	11	12	12	12	12	12	11	10	9	8	8
-35°	8	8	9	9	9	8	8	8	7	7	7
-37.5°	7	7	7	7	7	7	7	7	6	6	6
-40°	6	6	6	6	6	6	6	6	6	5	5
-42.5°	5	5	5	5	5	5	5	5	4	4	4
-45°	4	4	4	4	4	4	4	4	4	4	3
-47.5°	3	3	3	4	3	3	3	3	3	3	3
-50°	3	3	3	3	3	3	3	3	3	3	3
-52.5°	2	3	3	3	3	3	2	2	2	2	2
-55°	2	2	2	2	2	2	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	2	2	2
-62.5°	2	2	2	2	2	2	2	2	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°	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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	1	1	1	1	1	1	1	1	1	0	0
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	1	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	2	1	1	1	1	1
55°	2	2	2	2	2	2	2	2	1	1	1
52.5°	2	2	2	2	2	2	2	2	2	1	1
50°	2	2	2	2	2	2	2	2	2	2	2
47.5°	3	3	3	2	2	2	2	2	2	2	2
45°	3	3	3	3	3	2	2	2	2	2	2
42.5°	4	4	3	3	3	3	2	2	2	2	2
40°	4	4	4	4	3	3	3	3	2	2	2
37.5°	5	5	4	4	4	3	3	3	3	2	2
35°	6	6	5	5	4	4	3	3	3	2	2
32.5°	7	6	6	6	5	4	4	3	3	3	2
30°	8	7	7	6	6	5	4	4	3	3	3
27.5°	11	9	8	7	6	6	5	4	4	3	3
25°	14	11	9	8	7	6	5	4	4	3	3
22.5°	20	15	11	9	7	6	6	5	4	4	3
20°	29	20	14	11	8	7	6	5	4	4	3
17.5°	43	28	18	13	10	8	7	6	5	4	3
15°	58	38	24	16	11	8	7	6	5	4	4
12.5°	74	50	31	18	13	9	7	6	6	4	4
10°	89	61	39	23	15	10	8	7	6	5	4
7.5°	102	72	46	27	16	11	8	7	6	5	4
5°	111	80	51	30	17	12	8	7	6	5	4
2.5°	117	84	55	32	18	12	9	7	6	5	4
0°	119	86	56	32	18	12	9	7	6	5	4
-2.5°	117	84	55	32	18	12	9	7	6	5	4
-5°	111	80	51	30	17	12	8	7	6	5	4
-7.5°	102	72	46	27	16	11	8	7	6	5	4
-10°	89	61	39	23	15	10	8	7	6	5	4
-12.5°	74	50	31	18	13	9	7	6	6	4	4
-15°	58	38	24	16	11	8	7	6	5	4	4
-17.5°	43	28	18	13	10	8	7	6	5	4	3
-20°	29	20	14	11	8	7	6	5	4	4	3



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	20	15	11	9	7	6	6	5	4	4	3
-25°	14	11	9	8	7	6	5	4	4	3	3
-27.5°	11	9	8	7	6	6	5	4	4	3	3
-30°	8	7	7	6	6	5	4	4	3	3	3
-32.5°	7	6	6	6	5	4	4	3	3	3	2
-35°	6	6	5	5	4	4	3	3	3	2	2
-37.5°	5	5	4	4	4	3	3	3	3	2	2
-40°	4	4	4	4	3	3	3	3	2	2	2
-42.5°	4	4	3	3	3	3	2	2	2	2	2
-45°	3	3	3	3	3	2	2	2	2	2	2
-47.5°	3	3	3	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	1	1
-55°	2	2	2	2	2	2	2	2	1	1	1
-57.5°	2	2	2	2	2	2	1	1	1	1	1
-60°	2	2	2	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	1	1
-67.5°	1	1	1	1	1	1	1	1	1	0	0
-70°	1	1	1	1	1	1	0	0	0	0	0
-72.5°	1	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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	0	0	0	0	0	0
55°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	0	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	2	1	1	1	1	1	1	1	0	0	0
45°	2	2	1	1	1	1	1	1	0	0	0
42.5°	2	2	1	1	1	1	1	1	0	0	0
40°	2	2	2	1	1	1	1	1	1	0	0
37.5°	2	2	2	2	1	1	1	1	1	0	0
35°	2	2	2	2	1	1	1	1	1	0	0
32.5°	2	2	2	2	2	1	1	1	1	1	0
30°	2	2	2	2	2	1	1	1	1	1	0
27.5°	2	2	2	2	2	1	1	1	1	1	0
25°	3	2	2	2	2	2	1	1	1	1	0
22.5°	3	2	2	2	2	2	1	1	1	1	0
20°	3	2	2	2	2	2	1	1	1	1	1
17.5°	3	3	2	2	2	2	1	1	1	1	1
15°	3	3	2	2	2	2	1	1	1	1	1
12.5°	3	3	2	2	2	2	1	1	1	1	1
10°	3	3	2	2	2	2	2	1	1	1	1
7.5°	3	3	2	2	2	2	2	1	1	1	1
5°	3	3	3	2	2	2	2	1	1	1	1
2.5°	3	3	3	2	2	2	2	1	1	1	1
0°	4	3	3	2	2	2	2	1	1	1	1
-2.5°	3	3	3	2	2	2	2	1	1	1	1
-5°	3	3	3	2	2	2	2	1	1	1	1
-7.5°	3	3	2	2	2	2	2	1	1	1	1
-10°	3	3	2	2	2	2	2	1	1	1	1
-12.5°	3	3	2	2	2	2	1	1	1	1	1
-15°	3	3	2	2	2	2	1	1	1	1	1
-17.5°	3	3	2	2	2	2	1	1	1	1	1
-20°	3	2	2	2	2	2	1	1	1	1	1



REPORT NUMBER: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	3	2	2	2	2	2	1	1	1	1	0
-25°	3	2	2	2	2	2	1	1	1	1	0
-27.5°	2	2	2	2	2	1	1	1	1	1	0
-30°	2	2	2	2	2	1	1	1	1	1	0
-32.5°	2	2	2	2	2	1	1	1	1	1	0
-35°	2	2	2	2	1	1	1	1	1	0	0
-37.5°	2	2	2	2	1	1	1	1	1	0	0
-40°	2	2	2	1	1	1	1	1	1	0	0
-42.5°	2	2	1	1	1	1	1	1	0	0	0
-45°	2	2	1	1	1	1	1	1	0	0	0
-47.5°	2	1	1	1	1	1	1	1	0	0	0
-50°	1	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	1	0	0	0	0	0
-55°	1	1	1	1	1	1	0	0	0	0	0
-57.5°	1	1	1	1	1	0	0	0	0	0	0
-60°	1	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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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: P220403 (CONVERTED FROM TYPE C PHOTOMETRY)

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