

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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
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-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
SPOT OPTIC, WHITE 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:	412 lumens	Max Intensity:	5199.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	41.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.3°H x 14.3°V	Field Angle (10%):	25.1°H x 25.1°V
Beam Lumens:	164.7 lumens	Field Lumens:	309.6 lumens
Beam Efficiency:	40.0%	Field Efficiency:	75.2%

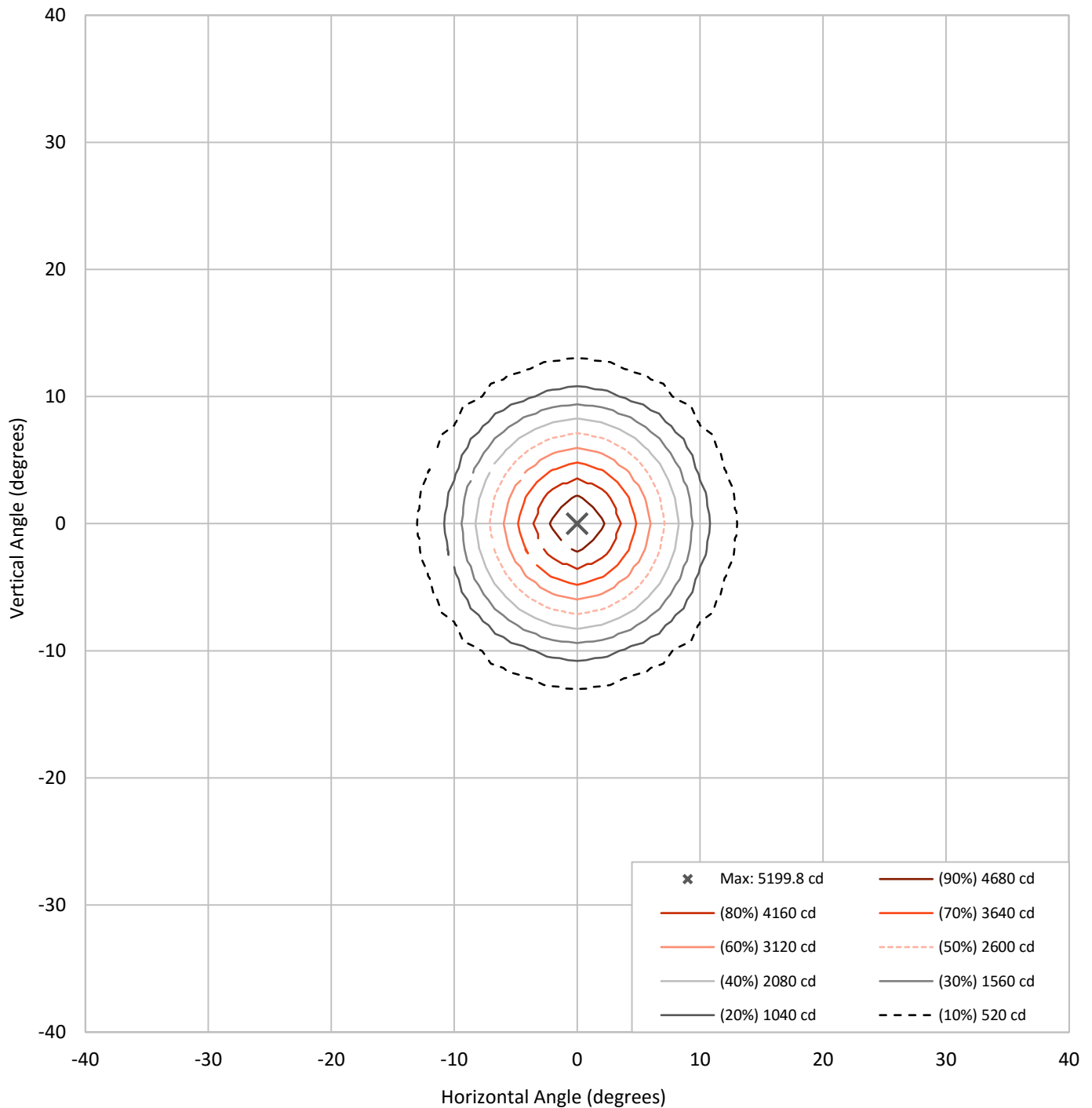
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





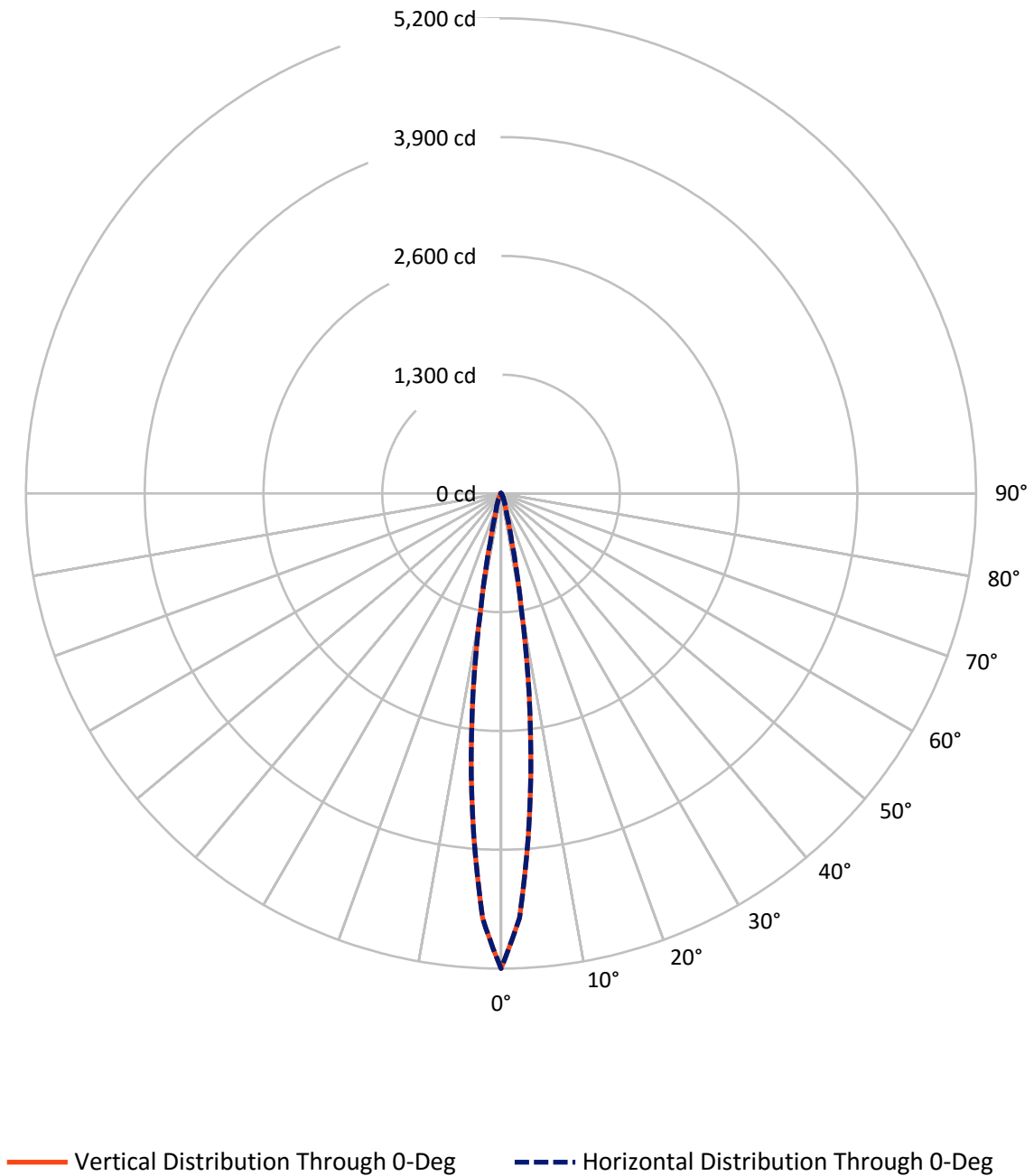
REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0										
80	0.0	0.0	0.0	0.1	0.1	0.1	0.0	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	0.0	0.0	0.0	0.0				
60		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					
50	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
40		0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1					
30	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	1.7	0.9	0.3	0.2	0.1	0.1	0.0				
20		0.0	0.1	0.1	0.2	0.9	3.3	9.3	9.3	3.3	0.9	0.2	0.1	0.1					
10	0.0	0.0	0.1	0.1	0.3	1.6	9.1	71.4	71.4	9.1	1.6	0.3	0.1	0.1	0.0				
0		0.0	0.1	0.1	0.3	1.6	9.1	71.4	71.4	9.1	1.6	0.3	0.1	0.1					
-10	0.0	0.0	0.1	0.1	0.2	0.9	3.3	9.3	9.3	3.3	0.9	0.2	0.1	0.1	0.0				
-20		0.0	0.1	0.1	0.2	0.3	0.9	1.7	1.7	0.9	0.3	0.2	0.1	0.1					
-30	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0				
-40		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1					
-50	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				
-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					
-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				
-80		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					
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

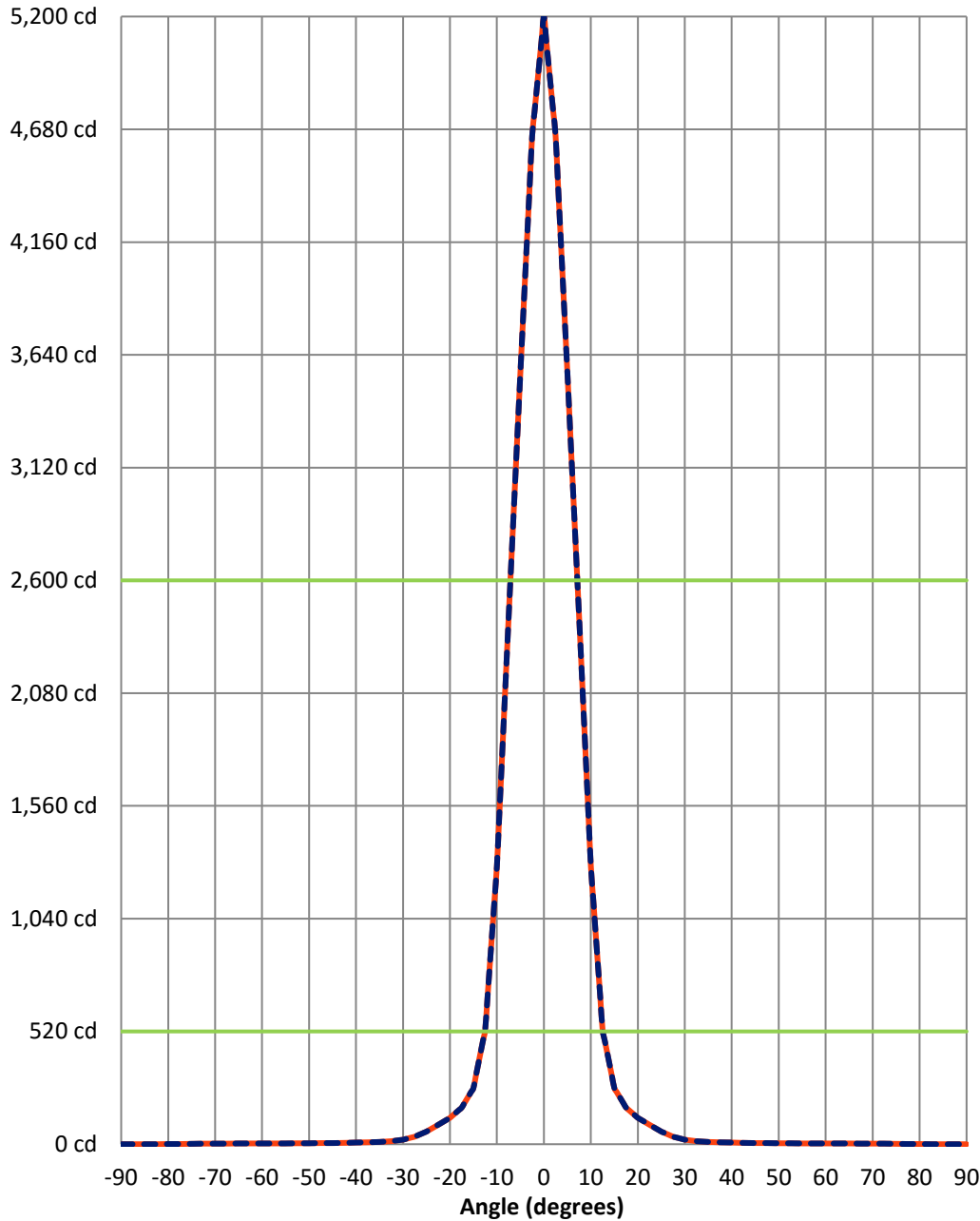
REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 14.3°
 V Angle: 14.3°
 Lumens: 164.7
 Efficiency: 40.0%

Field:
 H Angle: 25.1°
 V Angle: 25.1°
 Lumens: 309.6
 Efficiency: 75.2%

Spill:
 Lumens: 102.3
 Efficiency: 24.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-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	1
65°	0	0	0	0	0	0	0	0	0	1	1
62.5°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	0	0	1	1	1
57.5°	0	0	0	0	0	0	0	1	1	1	1
55°	0	0	0	0	0	0	0	1	1	1	1
52.5°	0	0	0	0	0	0	1	1	1	1	2
50°	0	0	0	0	0	0	1	1	1	1	2
47.5°	0	0	0	0	0	0	1	1	1	2	2
45°	0	0	0	0	0	0	1	1	1	2	3
42.5°	0	0	0	0	0	1	1	1	2	2	3
40°	0	0	0	0	0	1	1	1	2	2	3
37.5°	0	0	0	0	0	1	1	1	2	3	3
35°	0	0	0	0	0	1	1	1	2	3	3
32.5°	0	0	0	0	0	1	1	2	2	3	3
30°	0	0	0	0	0	1	1	2	3	3	3
27.5°	0	0	0	0	0	1	1	2	3	3	3
25°	0	0	0	0	1	1	1	2	3	3	3
22.5°	0	0	0	0	1	1	1	2	3	3	3
20°	0	0	0	0	1	1	1	2	3	3	3
17.5°	0	0	0	0	1	1	1	2	3	3	3
15°	0	0	0	0	1	1	2	2	3	3	3
12.5°	0	0	0	0	1	1	2	2	3	3	3
10°	0	0	0	0	1	1	2	3	3	3	3
7.5°	0	0	0	0	1	1	2	3	3	3	3
5°	0	0	0	0	1	1	2	3	3	3	3
2.5°	0	0	0	0	1	1	2	3	3	3	3
0°	0	0	0	0	1	1	2	3	3	3	4
-2.5°	0	0	0	0	1	1	2	3	3	3	3
-5°	0	0	0	0	1	1	2	3	3	3	3
-7.5°	0	0	0	0	1	1	2	3	3	3	3
-10°	0	0	0	0	1	1	2	3	3	3	3
-12.5°	0	0	0	0	1	1	2	2	3	3	3
-15°	0	0	0	0	1	1	2	2	3	3	3
-17.5°	0	0	0	0	1	1	1	2	3	3	3
-20°	0	0	0	0	1	1	1	2	3	3	3



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	0	0	1	1	1	2	3	3	3
-25°	0	0	0	0	1	1	1	2	3	3	3
-27.5°	0	0	0	0	0	1	1	2	3	3	3
-30°	0	0	0	0	0	1	1	2	3	3	3
-32.5°	0	0	0	0	0	1	1	2	2	3	3
-35°	0	0	0	0	0	1	1	1	2	3	3
-37.5°	0	0	0	0	0	1	1	1	2	3	3
-40°	0	0	0	0	0	1	1	1	2	2	3
-42.5°	0	0	0	0	0	1	1	1	2	2	3
-45°	0	0	0	0	0	0	1	1	1	2	3
-47.5°	0	0	0	0	0	0	1	1	1	2	2
-50°	0	0	0	0	0	0	1	1	1	1	2
-52.5°	0	0	0	0	0	0	1	1	1	1	2
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	1	1	1	1
-60°	0	0	0	0	0	0	0	0	1	1	1
-62.5°	0	0	0	0	0	0	0	0	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	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	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	1	1	1
75°	0	0	0	0	1	1	1	1	1	1	1
72.5°	0	0	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	2	2	2
67.5°	1	1	1	1	1	1	2	2	2	2	3
65°	1	1	1	1	2	2	2	3	3	3	3
62.5°	1	1	1	2	2	3	3	3	3	3	3
60°	1	2	2	2	3	3	3	3	3	3	3
57.5°	1	2	2	3	3	3	3	3	3	3	4
55°	2	2	3	3	3	3	3	3	4	4	4
52.5°	2	3	3	3	3	3	3	4	4	4	4
50°	3	3	3	3	3	3	4	4	4	4	4
47.5°	3	3	3	3	3	4	4	4	4	4	4
45°	3	3	3	3	4	4	4	4	4	4	4
42.5°	3	3	3	4	4	4	4	4	4	4	4
40°	3	3	3	4	4	4	4	4	4	4	4
37.5°	3	3	4	4	4	4	4	4	4	4	4
35°	3	3	4	4	4	4	4	4	4	4	4
32.5°	3	3	4	4	4	4	4	4	4	4	5
30°	3	4	4	4	4	4	4	4	4	5	5
27.5°	3	4	4	4	4	4	4	4	5	5	5
25°	3	4	4	4	4	4	4	4	5	5	6
22.5°	4	4	4	4	4	4	4	5	5	5	6
20°	4	4	4	4	4	4	4	5	5	6	7
17.5°	4	4	4	4	4	4	4	5	5	6	7
15°	4	4	4	4	4	4	5	5	5	6	8
12.5°	4	4	4	4	4	4	5	5	6	7	8
10°	4	4	4	4	4	4	5	5	6	7	8
7.5°	4	4	4	4	4	4	5	5	6	7	8
5°	4	4	4	4	4	4	5	5	6	8	9
2.5°	4	4	4	4	4	4	5	5	6	8	9
0°	4	4	4	4	4	4	5	5	6	8	9
-2.5°	4	4	4	4	4	4	5	5	6	8	9
-5°	4	4	4	4	4	4	5	5	6	8	9
-7.5°	4	4	4	4	4	4	5	5	6	7	8
-10°	4	4	4	4	4	4	5	5	6	7	8
-12.5°	4	4	4	4	4	4	5	5	6	7	8
-15°	4	4	4	4	4	4	5	5	5	6	8
-17.5°	4	4	4	4	4	4	4	5	5	6	7
-20°	4	4	4	4	4	4	4	5	5	6	7



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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	4	4	4	4	4	4	5	5	5	6
-25°	3	4	4	4	4	4	4	4	5	5	6
-27.5°	3	4	4	4	4	4	4	4	5	5	5
-30°	3	4	4	4	4	4	4	4	4	5	5
-32.5°	3	3	4	4	4	4	4	4	4	4	5
-35°	3	3	4	4	4	4	4	4	4	4	4
-37.5°	3	3	4	4	4	4	4	4	4	4	4
-40°	3	3	3	4	4	4	4	4	4	4	4
-42.5°	3	3	3	4	4	4	4	4	4	4	4
-45°	3	3	3	3	4	4	4	4	4	4	4
-47.5°	3	3	3	3	3	4	4	4	4	4	4
-50°	3	3	3	3	3	3	4	4	4	4	4
-52.5°	2	3	3	3	3	3	3	4	4	4	4
-55°	2	2	3	3	3	3	3	3	4	4	4
-57.5°	1	2	2	3	3	3	3	3	3	3	4
-60°	1	2	2	2	3	3	3	3	3	3	3
-62.5°	1	1	1	2	2	3	3	3	3	3	3
-65°	1	1	1	1	2	2	2	3	3	3	3
-67.5°	1	1	1	1	1	1	2	2	2	2	3
-70°	1	1	1	1	1	1	1	1	2	2	2
-72.5°	0	0	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	1	1	1	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	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	2	2	2
72.5°	1	2	2	2	2	2	2	2	2	2	3
70°	2	2	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	3	3	3	3	3
65°	3	3	3	3	3	3	3	3	3	3	3
62.5°	3	3	3	3	3	4	4	4	4	4	4
60°	3	3	4	4	4	4	4	4	4	4	4
57.5°	4	4	4	4	4	4	4	4	4	4	4
55°	4	4	4	4	4	4	4	4	4	4	4
52.5°	4	4	4	4	4	4	4	4	4	4	4
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	4	4	4	4	4	4	4	4	5	5	5
45°	4	4	4	4	4	5	5	5	5	5	5
42.5°	4	4	4	5	5	5	5	5	5	6	6
40°	4	4	5	5	5	5	6	6	6	7	7
37.5°	4	5	5	5	6	6	7	7	8	8	8
35°	5	5	5	6	6	7	8	8	9	9	10
32.5°	5	5	6	7	8	8	9	9	10	11	12
30°	5	6	7	8	8	9	10	11	13	15	17
27.5°	6	7	8	8	9	10	12	15	18	21	26
25°	6	8	8	9	11	13	16	20	27	33	41
22.5°	7	8	9	10	13	17	22	31	41	53	64
20°	8	9	10	12	16	22	32	46	61	78	92
17.5°	8	9	11	15	20	31	46	64	85	104	121
15°	9	10	13	18	27	41	61	85	108	132	160
12.5°	9	11	15	21	33	53	78	104	132	166	224
10°	10	12	17	26	41	64	92	121	160	224	319
7.5°	10	13	18	30	49	75	105	140	196	289	532
5°	10	13	20	32	54	83	114	156	230	387	853
2.5°	10	14	21	34	57	88	120	165	252	483	1166
0°	10	14	21	35	58	90	122	169	259	528	1283
-2.5°	10	14	21	34	57	88	120	165	252	483	1166
-5°	10	13	20	32	54	83	114	156	230	387	853
-7.5°	10	13	18	30	49	75	105	140	196	289	532
-10°	10	12	17	26	41	64	92	121	160	224	319
-12.5°	9	11	15	21	33	53	78	104	132	166	224
-15°	9	10	13	18	27	41	61	85	108	132	160
-17.5°	8	9	11	15	20	31	46	64	85	104	121
-20°	8	9	10	12	16	22	32	46	61	78	92



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	8	9	10	13	17	22	31	41	53	64
-25°	6	8	8	9	11	13	16	20	27	33	41
-27.5°	6	7	8	8	9	10	12	15	18	21	26
-30°	5	6	7	8	8	9	10	11	13	15	17
-32.5°	5	5	6	7	8	8	9	9	10	11	12
-35°	5	5	5	6	6	7	8	8	9	9	10
-37.5°	4	5	5	5	6	6	7	7	8	8	8
-40°	4	4	5	5	5	5	6	6	6	7	7
-42.5°	4	4	4	5	5	5	5	5	5	6	6
-45°	4	4	4	4	4	5	5	5	5	5	5
-47.5°	4	4	4	4	4	4	4	4	5	5	5
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	4	4
-55°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	4	4	4	4	4	4	4	4	4	4	4
-60°	3	3	4	4	4	4	4	4	4	4	4
-62.5°	3	3	3	3	3	4	4	4	4	4	4
-65°	3	3	3	3	3	3	3	3	3	3	3
-67.5°	3	3	3	3	3	3	3	3	3	3	3
-70°	2	2	3	3	3	3	3	3	3	3	3
-72.5°	1	2	2	2	2	2	2	2	2	2	3
-75°	1	1	1	1	1	1	1	1	2	2	2
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	0	0	0	0	1	1	1	1	1	1	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	2	2	2	2	2	2	2	2	2	2	1
72.5°	3	3	3	3	3	3	3	3	2	2	2
70°	3	3	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	3	3	3	3	3
65°	3	3	3	4	3	3	3	3	3	3	3
62.5°	4	4	4	4	4	4	4	4	4	4	4
60°	4	4	4	4	4	4	4	4	4	4	4
57.5°	4	4	4	4	4	4	4	4	4	4	4
55°	4	4	4	4	4	4	4	4	4	4	4
52.5°	4	4	4	4	4	4	4	4	4	4	4
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	5	5	5	5	5	5	5	5	5	5	4
45°	5	5	5	5	5	5	5	5	5	5	5
42.5°	6	6	6	6	6	6	6	6	6	5	5
40°	7	8	8	8	8	8	7	7	7	6	6
37.5°	8	9	9	9	9	9	8	8	8	8	7
35°	10	10	10	10	10	10	10	10	9	9	8
32.5°	13	13	14	14	14	13	13	12	11	10	9
30°	18	20	21	21	21	20	18	17	15	13	11
27.5°	30	32	34	35	34	32	30	26	21	18	15
25°	49	54	57	58	57	54	49	41	33	27	20
22.5°	75	83	88	90	88	83	75	64	53	41	31
20°	105	114	120	122	120	114	105	92	78	61	46
17.5°	140	156	165	169	165	156	140	121	104	85	64
15°	196	230	252	259	252	230	196	160	132	108	85
12.5°	289	387	483	528	483	387	289	224	166	132	104
10°	532	853	1166	1283	1166	853	532	319	224	160	121
7.5°	1056	1725	2243	2432	2243	1725	1056	532	289	196	140
5°	1725	2636	3299	3560	3299	2636	1725	853	387	230	156
2.5°	2243	3299	4216	4649	4216	3299	2243	1166	483	252	165
0°	2432	3560	4649	5200	4649	3560	2432	1283	528	259	169
-2.5°	2243	3299	4216	4649	4216	3299	2243	1166	483	252	165
-5°	1725	2636	3299	3560	3299	2636	1725	853	387	230	156
-7.5°	1056	1725	2243	2432	2243	1725	1056	532	289	196	140
-10°	532	853	1166	1283	1166	853	532	319	224	160	121
-12.5°	289	387	483	528	483	387	289	224	166	132	104
-15°	196	230	252	259	252	230	196	160	132	108	85
-17.5°	140	156	165	169	165	156	140	121	104	85	64
-20°	105	114	120	122	120	114	105	92	78	61	46



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	75	83	88	90	88	83	75	64	53	41	31
-25°	49	54	57	58	57	54	49	41	33	27	20
-27.5°	30	32	34	35	34	32	30	26	21	18	15
-30°	18	20	21	21	21	20	18	17	15	13	11
-32.5°	13	13	14	14	14	13	13	12	11	10	9
-35°	10	10	10	10	10	10	10	10	9	9	8
-37.5°	8	9	9	9	9	9	8	8	8	8	7
-40°	7	8	8	8	8	8	7	7	7	6	6
-42.5°	6	6	6	6	6	6	6	6	6	5	5
-45°	5	5	5	5	5	5	5	5	5	5	5
-47.5°	5	5	5	5	5	5	5	5	5	5	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	4	4
-55°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	4	4	4	4	4	4	4	4	4	4	4
-60°	4	4	4	4	4	4	4	4	4	4	4
-62.5°	4	4	4	4	4	4	4	4	4	4	4
-65°	3	3	3	4	3	3	3	3	3	3	3
-67.5°	3	3	3	3	3	3	3	3	3	3	3
-70°	3	3	3	3	3	3	3	3	3	3	3
-72.5°	3	3	3	3	3	3	3	3	2	2	2
-75°	2	2	2	2	2	2	2	2	2	2	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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°	1	1	1	0	0	0	0	0	0	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	2	2	1	1	1	1	1
70°	3	3	3	3	3	2	2	2	2	2	1
67.5°	3	3	3	3	3	3	3	3	2	2	2
65°	3	3	3	3	3	3	3	3	3	3	3
62.5°	4	4	3	3	3	3	3	3	3	3	3
60°	4	4	4	4	4	3	3	3	3	3	3
57.5°	4	4	4	4	4	4	4	4	3	3	3
55°	4	4	4	4	4	4	4	4	4	4	3
52.5°	4	4	4	4	4	4	4	4	4	4	4
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	4	4	4	4	4	4	4	4	4	4	4
45°	5	5	4	4	4	4	4	4	4	4	4
42.5°	5	5	5	5	4	4	4	4	4	4	4
40°	6	5	5	5	5	4	4	4	4	4	4
37.5°	7	6	6	5	5	5	4	4	4	4	4
35°	8	7	6	6	5	5	5	4	4	4	4
32.5°	9	8	8	7	6	5	5	5	4	4	4
30°	10	9	8	8	7	6	5	5	5	4	4
27.5°	12	10	9	8	8	7	6	5	5	5	4
25°	16	13	11	9	8	8	6	6	5	5	4
22.5°	22	17	13	10	9	8	7	6	5	5	5
20°	32	22	16	12	10	9	8	7	6	5	5
17.5°	46	31	20	15	11	9	8	7	6	5	5
15°	61	41	27	18	13	10	9	8	6	5	5
12.5°	78	53	33	21	15	11	9	8	7	6	5
10°	92	64	41	26	17	12	10	8	7	6	5
7.5°	105	75	49	30	18	13	10	8	7	6	5
5°	114	83	54	32	20	13	10	9	8	6	5
2.5°	120	88	57	34	21	14	10	9	8	6	5
0°	122	90	58	35	21	14	10	9	8	6	5
-2.5°	120	88	57	34	21	14	10	9	8	6	5
-5°	114	83	54	32	20	13	10	9	8	6	5
-7.5°	105	75	49	30	18	13	10	8	7	6	5
-10°	92	64	41	26	17	12	10	8	7	6	5
-12.5°	78	53	33	21	15	11	9	8	7	6	5
-15°	61	41	27	18	13	10	9	8	6	5	5
-17.5°	46	31	20	15	11	9	8	7	6	5	5
-20°	32	22	16	12	10	9	8	7	6	5	5



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22	17	13	10	9	8	7	6	5	5	5
-25°	16	13	11	9	8	8	6	6	5	5	4
-27.5°	12	10	9	8	8	7	6	5	5	5	4
-30°	10	9	8	8	7	6	5	5	5	4	4
-32.5°	9	8	8	7	6	5	5	5	4	4	4
-35°	8	7	6	6	5	5	5	4	4	4	4
-37.5°	7	6	6	5	5	5	4	4	4	4	4
-40°	6	5	5	5	5	4	4	4	4	4	4
-42.5°	5	5	5	5	4	4	4	4	4	4	4
-45°	5	5	4	4	4	4	4	4	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	4	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	4	4
-55°	4	4	4	4	4	4	4	4	4	4	3
-57.5°	4	4	4	4	4	4	4	4	3	3	3
-60°	4	4	4	4	4	3	3	3	3	3	3
-62.5°	4	4	3	3	3	3	3	3	3	3	3
-65°	3	3	3	3	3	3	3	3	3	3	3
-67.5°	3	3	3	3	3	3	3	3	2	2	2
-70°	3	3	3	3	3	2	2	2	2	2	1
-72.5°	2	2	2	2	2	2	1	1	1	1	1
-75°	1	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	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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°	1	1	1	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	2	1	1	1	1	1	1	1	0	0	0
65°	2	2	2	1	1	1	1	1	1	0	0
62.5°	3	3	2	2	1	1	1	1	1	1	0
60°	3	3	3	2	2	2	1	1	1	1	0
57.5°	3	3	3	3	2	2	1	1	1	1	1
55°	3	3	3	3	3	2	2	1	1	1	1
52.5°	3	3	3	3	3	3	2	2	1	1	1
50°	4	3	3	3	3	3	3	2	1	1	1
47.5°	4	4	3	3	3	3	3	2	2	1	1
45°	4	4	4	3	3	3	3	3	2	1	1
42.5°	4	4	4	4	3	3	3	3	2	2	1
40°	4	4	4	4	3	3	3	3	2	2	1
37.5°	4	4	4	4	4	3	3	3	3	2	1
35°	4	4	4	4	4	3	3	3	3	2	1
32.5°	4	4	4	4	4	3	3	3	3	2	2
30°	4	4	4	4	4	4	3	3	3	3	2
27.5°	4	4	4	4	4	4	3	3	3	3	2
25°	4	4	4	4	4	4	3	3	3	3	2
22.5°	4	4	4	4	4	4	4	3	3	3	2
20°	4	4	4	4	4	4	4	3	3	3	2
17.5°	4	4	4	4	4	4	4	3	3	3	2
15°	5	4	4	4	4	4	4	3	3	3	2
12.5°	5	4	4	4	4	4	4	3	3	3	2
10°	5	4	4	4	4	4	4	3	3	3	3
7.5°	5	4	4	4	4	4	4	3	3	3	3
5°	5	4	4	4	4	4	4	3	3	3	3
2.5°	5	4	4	4	4	4	4	3	3	3	3
0°	5	4	4	4	4	4	4	4	3	3	3
-2.5°	5	4	4	4	4	4	4	3	3	3	3
-5°	5	4	4	4	4	4	4	3	3	3	3
-7.5°	5	4	4	4	4	4	4	3	3	3	3
-10°	5	4	4	4	4	4	4	3	3	3	3
-12.5°	5	4	4	4	4	4	4	3	3	3	2
-15°	5	4	4	4	4	4	4	3	3	3	2
-17.5°	4	4	4	4	4	4	4	3	3	3	2
-20°	4	4	4	4	4	4	4	3	3	3	2



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	4	4	4	4	4	4	4	3	3	3	2
-25°	4	4	4	4	4	4	3	3	3	3	2
-27.5°	4	4	4	4	4	4	3	3	3	3	2
-30°	4	4	4	4	4	4	3	3	3	3	2
-32.5°	4	4	4	4	4	3	3	3	3	2	2
-35°	4	4	4	4	4	3	3	3	3	2	1
-37.5°	4	4	4	4	4	3	3	3	3	2	1
-40°	4	4	4	4	3	3	3	3	2	2	1
-42.5°	4	4	4	4	3	3	3	3	2	2	1
-45°	4	4	4	3	3	3	3	3	2	1	1
-47.5°	4	4	3	3	3	3	3	2	2	1	1
-50°	4	3	3	3	3	3	3	2	1	1	1
-52.5°	3	3	3	3	3	3	2	2	1	1	1
-55°	3	3	3	3	3	2	2	1	1	1	1
-57.5°	3	3	3	3	2	2	1	1	1	1	1
-60°	3	3	3	2	2	2	1	1	1	1	0
-62.5°	3	3	2	2	1	1	1	1	1	1	0
-65°	2	2	2	1	1	1	1	1	1	0	0
-67.5°	2	1	1	1	1	1	1	1	0	0	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	1	1	1	1	0	0	0	0	0	0
-75°	1	1	1	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: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-S-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°	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°	1	0	0	0	0	0	0
50°	1	0	0	0	0	0	0
47.5°	1	0	0	0	0	0	0
45°	1	0	0	0	0	0	0
42.5°	1	1	0	0	0	0	0
40°	1	1	0	0	0	0	0
37.5°	1	1	0	0	0	0	0
35°	1	1	0	0	0	0	0
32.5°	1	1	0	0	0	0	0
30°	1	1	0	0	0	0	0
27.5°	1	1	0	0	0	0	0
25°	1	1	1	0	0	0	0
22.5°	1	1	1	0	0	0	0
20°	1	1	1	0	0	0	0
17.5°	1	1	1	0	0	0	0
15°	2	1	1	0	0	0	0
12.5°	2	1	1	0	0	0	0
10°	2	1	1	0	0	0	0
7.5°	2	1	1	0	0	0	0
5°	2	1	1	0	0	0	0
2.5°	2	1	1	0	0	0	0
0°	2	1	1	0	0	0	0
-2.5°	2	1	1	0	0	0	0
-5°	2	1	1	0	0	0	0
-7.5°	2	1	1	0	0	0	0
-10°	2	1	1	0	0	0	0
-12.5°	2	1	1	0	0	0	0
-15°	2	1	1	0	0	0	0
-17.5°	1	1	1	0	0	0	0
-20°	1	1	1	0	0	0	0



REPORT NUMBER: P220371 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	1	1	0	0	0	0
-25°	1	1	1	0	0	0	0
-27.5°	1	1	0	0	0	0	0
-30°	1	1	0	0	0	0	0
-32.5°	1	1	0	0	0	0	0
-35°	1	1	0	0	0	0	0
-37.5°	1	1	0	0	0	0	0
-40°	1	1	0	0	0	0	0
-42.5°	1	1	0	0	0	0	0
-45°	1	0	0	0	0	0	0
-47.5°	1	0	0	0	0	0	0
-50°	1	0	0	0	0	0	0
-52.5°	1	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)