

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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
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]-[RW, RI]-LED3590-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

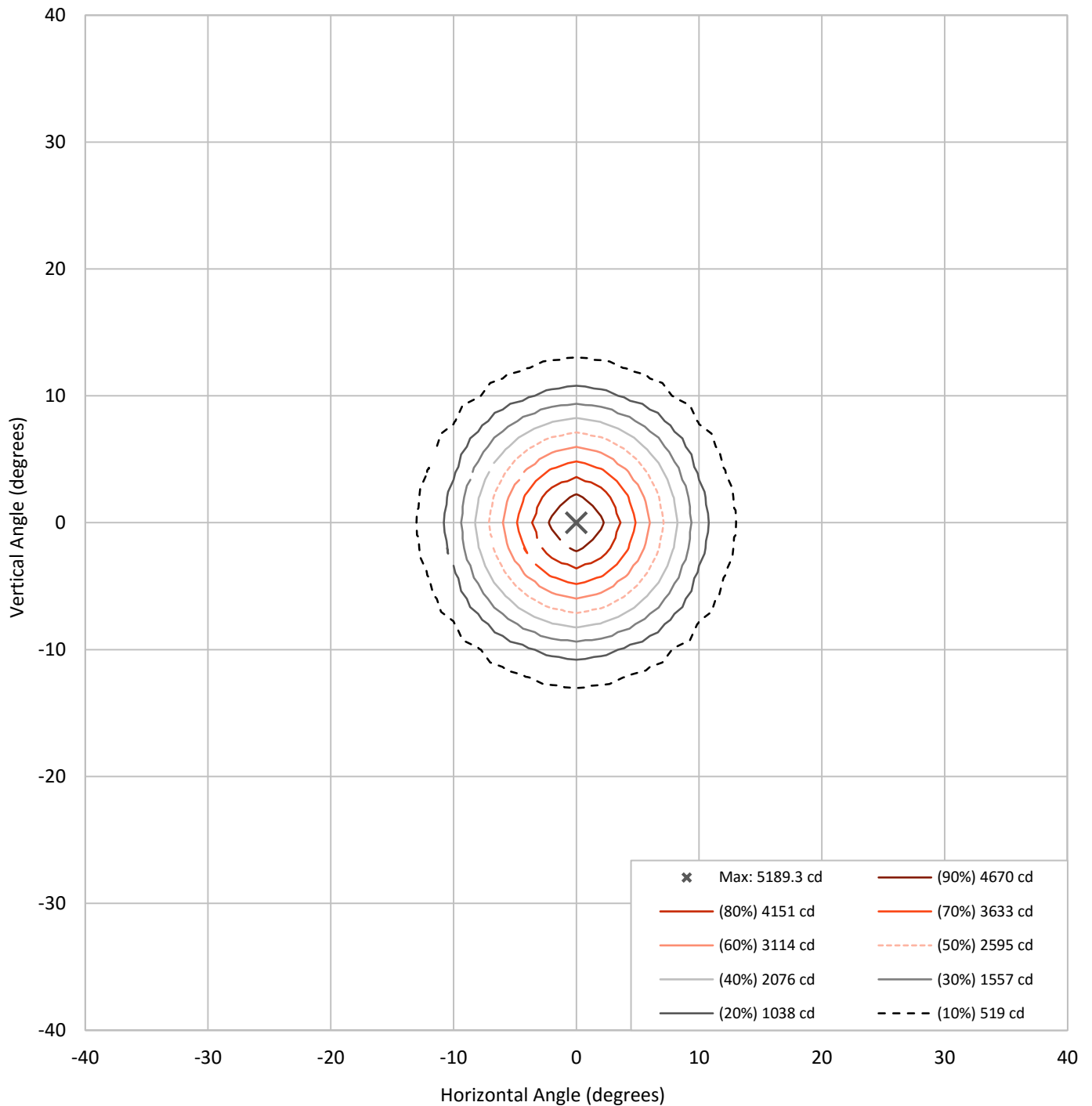
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	405.7 lumens	Max Intensity:	5189.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	40.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.2°H x 14.2°V	Field Angle (10%):	25.2°H x 25.2°V
Beam Lumens:	164.8 lumens	Field Lumens:	309 lumens
Beam Efficiency:	40.6%	Field Efficiency:	76.2%

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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-S-WT-L1-UNV

Iso-Candela Plot





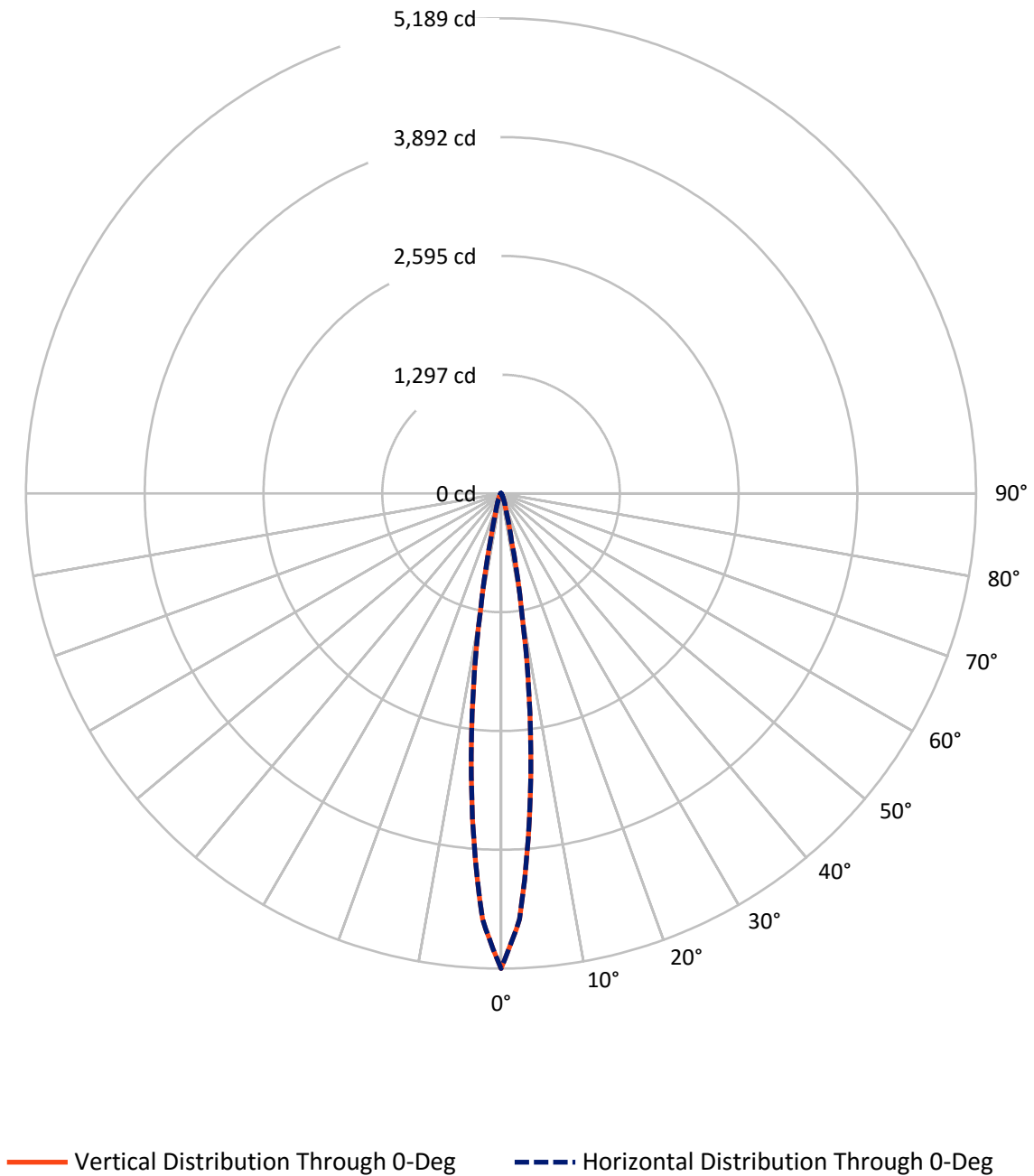
REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-S-WT-L1-UNV

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	0.0	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	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0			
40		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0				
30	0.0	0.0	0.0	0.1	0.1	0.3	0.9	1.7	1.7	0.9	0.3	0.1	0.1	0.0	0.0	0.0		
20		0.0	0.1	0.1	0.2	0.8	3.2	9.2	9.2	3.2	0.8	0.2	0.1	0.1	0.0			
10	0.0	0.0	0.1	0.1	0.3	1.5	9.0	71.3	71.3	9.0	1.5	0.3	0.1	0.1	0.0	0.0		
0		0.0	0.1	0.1	0.3	1.5	9.0	71.3	71.3	9.0	1.5	0.3	0.1	0.1	0.0			
-10	0.0	0.0	0.1	0.1	0.2	0.8	3.2	9.2	9.2	3.2	0.8	0.2	0.1	0.1	0.0	0.0		
-20		0.0	0.0	0.1	0.1	0.3	0.9	1.7	1.7	0.9	0.3	0.1	0.1	0.0	0.0			
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0		
-40		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			
-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		
-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			
-70	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			
-80		0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									

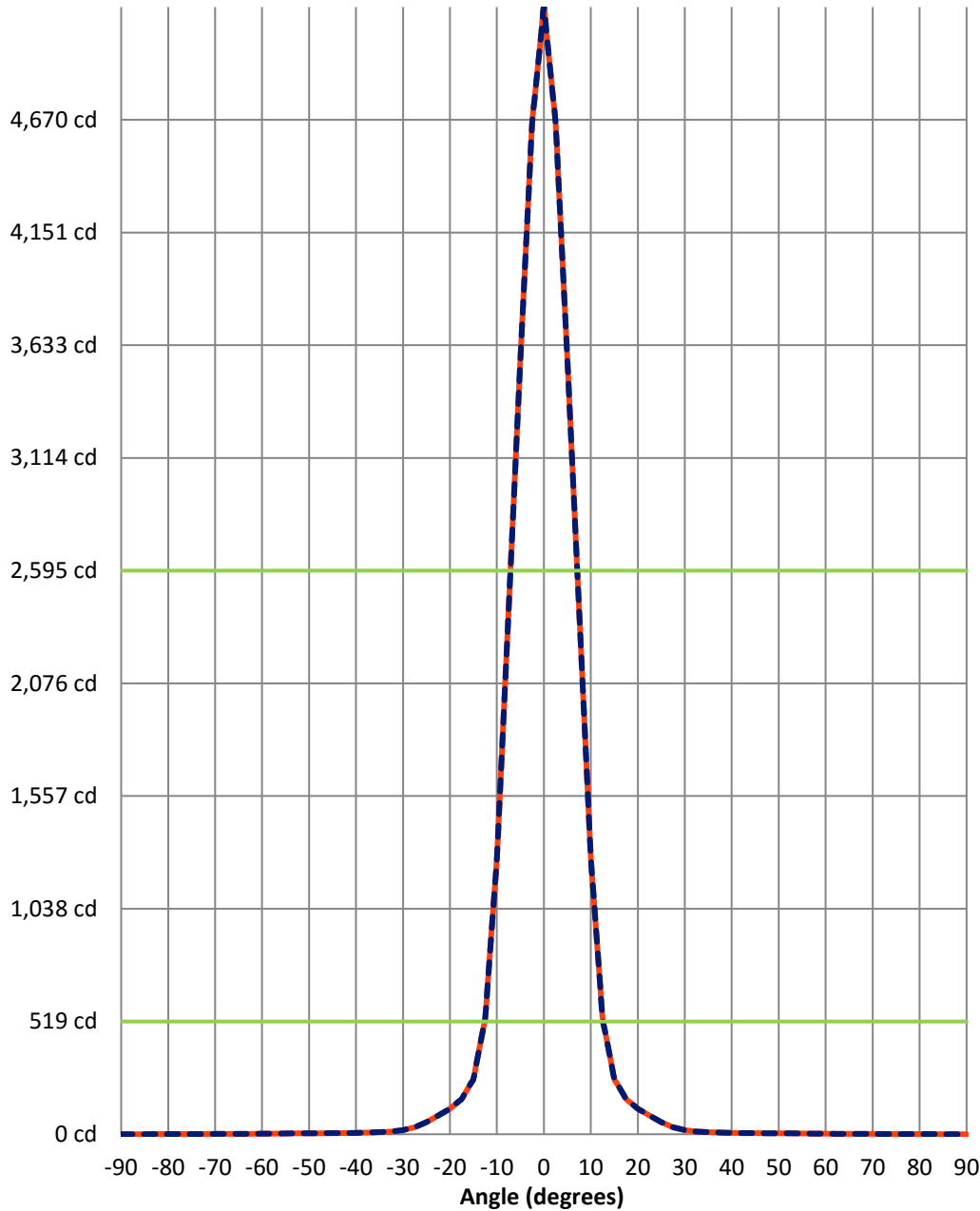
REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 14.2°
V Angle: 14.2°
Lumens: 164.8
Efficiency: 40.6%

Field:
H Angle: 25.2°
V Angle: 25.2°
Lumens: 309
Efficiency: 76.2%

Spill:
Lumens: 96.7
Efficiency: 23.8%

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



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	1	1
70°	0	0	0	0	0	0	0	0	1	1	1
67.5°	0	0	0	0	0	0	0	1	1	1	1
65°	0	0	0	0	0	0	0	1	1	1	1
62.5°	0	0	0	0	0	0	1	1	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	0	1	1	1	1	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	0	0	0	1	1	1	1	1	1
50°	0	0	0	0	1	1	1	1	1	1	1
47.5°	0	0	0	0	1	1	1	1	1	1	1
45°	0	0	0	0	1	1	1	1	1	1	1
42.5°	0	0	0	0	1	1	1	1	1	1	1
40°	0	0	0	0	1	1	1	1	1	1	1
37.5°	0	0	0	0	1	1	1	1	1	1	2
35°	0	0	0	0	1	1	1	1	1	1	2
32.5°	0	0	0	0	1	1	1	1	1	1	2
30°	0	0	0	1	1	1	1	1	1	1	2
27.5°	0	0	0	1	1	1	1	1	1	2	2
25°	0	0	0	1	1	1	1	1	1	2	2
22.5°	0	0	0	1	1	1	1	1	1	2	2
20°	0	0	0	1	1	1	1	1	1	2	2
17.5°	0	0	0	1	1	1	1	1	1	2	2
15°	0	0	0	1	1	1	1	1	1	2	2
12.5°	0	0	0	1	1	1	1	1	2	2	2
10°	0	0	0	1	1	1	1	1	2	2	2
7.5°	0	0	0	1	1	1	1	1	2	2	2
5°	0	0	0	1	1	1	1	1	2	2	2
2.5°	0	0	0	1	1	1	1	1	2	2	2
0°	0	0	0	1	1	1	1	1	2	2	2
-2.5°	0	0	0	1	1	1	1	1	2	2	2
-5°	0	0	0	1	1	1	1	1	2	2	2
-7.5°	0	0	0	1	1	1	1	1	2	2	2
-10°	0	0	0	1	1	1	1	1	2	2	2
-12.5°	0	0	0	1	1	1	1	1	2	2	2
-15°	0	0	0	1	1	1	1	1	1	2	2
-17.5°	0	0	0	1	1	1	1	1	1	2	2
-20°	0	0	0	1	1	1	1	1	1	2	2



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	1	1	1	1	1	1	2	2
-25°	0	0	0	1	1	1	1	1	1	2	2
-27.5°	0	0	0	1	1	1	1	1	1	2	2
-30°	0	0	0	1	1	1	1	1	1	1	2
-32.5°	0	0	0	0	1	1	1	1	1	1	2
-35°	0	0	0	0	1	1	1	1	1	1	2
-37.5°	0	0	0	0	1	1	1	1	1	1	2
-40°	0	0	0	0	1	1	1	1	1	1	1
-42.5°	0	0	0	0	1	1	1	1	1	1	1
-45°	0	0	0	0	1	1	1	1	1	1	1
-47.5°	0	0	0	0	1	1	1	1	1	1	1
-50°	0	0	0	0	1	1	1	1	1	1	1
-52.5°	0	0	0	0	0	1	1	1	1	1	1
-55°	0	0	0	0	0	1	1	1	1	1	1
-57.5°	0	0	0	0	0	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	1	1	1	1	1
-65°	0	0	0	0	0	0	0	1	1	1	1
-67.5°	0	0	0	0	0	0	0	1	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-72.5°	0	0	0	0	0	0	0	0	0	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	1	1	1	1	1	1
77.5°	0	0	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
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	2
62.5°	1	1	1	1	1	1	1	1	2	2	2
60°	1	1	1	1	1	1	2	2	2	2	2
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	1	1	2	2	2	2	2	2	2
52.5°	1	1	1	2	2	2	2	2	2	2	2
50°	1	1	2	2	2	2	2	2	2	2	3
47.5°	1	2	2	2	2	2	2	2	3	3	3
45°	1	2	2	2	2	2	2	3	3	3	3
42.5°	2	2	2	2	2	2	3	3	3	3	4
40°	2	2	2	2	2	2	3	3	3	4	4
37.5°	2	2	2	2	2	3	3	3	4	4	4
35°	2	2	2	2	3	3	3	4	4	4	4
32.5°	2	2	2	2	3	3	3	4	4	4	4
30°	2	2	2	3	3	3	4	4	4	4	5
27.5°	2	2	2	3	3	3	4	4	4	4	5
25°	2	2	2	3	3	4	4	4	4	5	5
22.5°	2	2	3	3	3	4	4	4	4	5	5
20°	2	2	3	3	3	4	4	4	5	5	5
17.5°	2	2	3	3	4	4	4	4	5	5	6
15°	2	2	3	3	4	4	4	5	5	5	6
12.5°	2	2	3	3	4	4	4	5	5	6	7
10°	2	2	3	3	4	4	4	5	5	6	7
7.5°	2	2	3	3	4	4	4	5	5	6	7
5°	2	3	3	3	4	4	4	5	5	6	8
2.5°	2	3	3	3	4	4	4	5	5	6	8
0°	2	3	3	4	4	4	4	5	5	6	8
-2.5°	2	3	3	3	4	4	4	5	5	6	8
-5°	2	3	3	3	4	4	4	5	5	6	8
-7.5°	2	2	3	3	4	4	4	5	5	6	7
-10°	2	2	3	3	4	4	4	5	5	6	7
-12.5°	2	2	3	3	4	4	4	5	5	6	7
-15°	2	2	3	3	4	4	4	5	5	5	6
-17.5°	2	2	3	3	4	4	4	4	5	5	6
-20°	2	2	3	3	3	4	4	4	5	5	5



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	2	2	3	3	3	4	4	4	4	5	5
-25°	2	2	2	3	3	4	4	4	4	5	5
-27.5°	2	2	2	3	3	3	4	4	4	4	5
-30°	2	2	2	3	3	3	4	4	4	4	5
-32.5°	2	2	2	2	3	3	3	4	4	4	4
-35°	2	2	2	2	3	3	3	4	4	4	4
-37.5°	2	2	2	2	2	3	3	3	4	4	4
-40°	2	2	2	2	2	2	3	3	3	4	4
-42.5°	2	2	2	2	2	2	3	3	3	3	4
-45°	1	2	2	2	2	2	2	3	3	3	3
-47.5°	1	2	2	2	2	2	2	2	3	3	3
-50°	1	1	2	2	2	2	2	2	2	2	3
-52.5°	1	1	1	2	2	2	2	2	2	2	2
-55°	1	1	1	1	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	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	2	2	2
-65°	1	1	1	1	1	1	1	1	1	1	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	0	0	1	1	1	1	1	1	1	1	1
-80°	0	0	0	0	0	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	2	2
67.5°	1	1	1	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	3	3	3	3	3	3
55°	2	2	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	4	4	4	4
50°	3	3	3	3	4	4	4	4	4	4	4
47.5°	3	3	4	4	4	4	4	4	4	4	4
45°	4	4	4	4	4	4	4	4	5	5	5
42.5°	4	4	4	4	4	4	5	5	5	5	5
40°	4	4	4	4	5	5	5	5	5	6	6
37.5°	4	4	5	5	5	5	5	6	6	7	7
35°	4	5	5	5	5	6	6	7	8	8	9
32.5°	5	5	5	6	6	7	8	9	9	10	11
30°	5	5	6	6	7	8	9	10	11	13	15
27.5°	5	6	6	7	9	10	11	13	16	19	24
25°	5	6	7	9	10	12	15	19	25	31	39
22.5°	6	7	8	10	12	15	20	28	38	50	61
20°	6	8	9	11	15	20	30	43	58	74	89
17.5°	7	9	10	13	19	28	43	61	81	100	116
15°	8	9	11	16	25	38	58	81	104	128	154
12.5°	8	10	13	19	31	50	74	100	128	160	219
10°	9	11	15	24	39	61	89	116	154	219	319
7.5°	9	11	17	27	46	72	101	135	191	287	537
5°	9	12	18	30	51	80	110	150	225	389	853
2.5°	10	12	19	32	55	84	115	159	247	488	1158
0°	10	12	19	32	56	86	117	162	255	533	1272
-2.5°	10	12	19	32	55	84	115	159	247	488	1158
-5°	9	12	18	30	51	80	110	150	225	389	853
-7.5°	9	11	17	27	46	72	101	135	191	287	537
-10°	9	11	15	24	39	61	89	116	154	219	319
-12.5°	8	10	13	19	31	50	74	100	128	160	219
-15°	8	9	11	16	25	38	58	81	104	128	154
-17.5°	7	9	10	13	19	28	43	61	81	100	116
-20°	6	8	9	11	15	20	30	43	58	74	89



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	6	7	8	10	12	15	20	28	38	50	61
-25°	5	6	7	9	10	12	15	19	25	31	39
-27.5°	5	6	6	7	9	10	11	13	16	19	24
-30°	5	5	6	6	7	8	9	10	11	13	15
-32.5°	5	5	5	6	6	7	8	9	9	10	11
-35°	4	5	5	5	5	6	6	7	8	8	9
-37.5°	4	4	5	5	5	5	5	6	6	7	7
-40°	4	4	4	4	5	5	5	5	5	6	6
-42.5°	4	4	4	4	4	4	5	5	5	5	5
-45°	4	4	4	4	4	4	4	4	5	5	5
-47.5°	3	3	4	4	4	4	4	4	4	4	4
-50°	3	3	3	3	4	4	4	4	4	4	4
-52.5°	3	3	3	3	3	3	3	4	4	4	4
-55°	2	2	3	3	3	3	3	3	3	3	3
-57.5°	2	2	2	2	2	3	3	3	3	3	3
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	1	1	2	2	2	2	2	2	2	2
-70°	1	1	1	1	1	1	1	1	1	2	2
-72.5°	1	1	1	1	1	1	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	1
-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	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	2	2	2	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	3	3	3	3	3	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	4	3	3	3	3	3	3	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	5	5	5	5	5	5	5	5	4
42.5°	5	5	5	5	5	5	5	5	5	5	5
40°	6	6	6	6	6	6	6	6	6	5	5
37.5°	7	8	8	8	8	8	7	7	7	6	6
35°	9	9	10	10	10	9	9	9	8	8	7
32.5°	11	12	12	12	12	12	11	11	10	9	9
30°	17	18	19	19	19	18	17	15	13	11	10
27.5°	27	30	32	32	32	30	27	24	19	16	13
25°	46	51	55	56	55	51	46	39	31	25	19
22.5°	72	80	84	86	84	80	72	61	50	38	28
20°	101	110	115	117	115	110	101	89	74	58	43
17.5°	135	150	159	162	159	150	135	116	100	81	61
15°	191	225	247	255	247	225	191	154	128	104	81
12.5°	287	389	488	533	488	389	287	219	160	128	100
10°	537	853	1158	1272	1158	853	537	319	219	154	116
7.5°	1051	1708	2225	2416	2225	1708	1051	537	287	191	135
5°	1708	2621	3300	3569	3300	2621	1708	853	389	225	150
2.5°	2225	3300	4235	4655	4235	3300	2225	1158	488	247	159
0°	2416	3569	4655	5189	4655	3569	2416	1272	533	255	162
-2.5°	2225	3300	4235	4655	4235	3300	2225	1158	488	247	159
-5°	1708	2621	3300	3569	3300	2621	1708	853	389	225	150
-7.5°	1051	1708	2225	2416	2225	1708	1051	537	287	191	135
-10°	537	853	1158	1272	1158	853	537	319	219	154	116
-12.5°	287	389	488	533	488	389	287	219	160	128	100
-15°	191	225	247	255	247	225	191	154	128	104	81
-17.5°	135	150	159	162	159	150	135	116	100	81	61
-20°	101	110	115	117	115	110	101	89	74	58	43



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	72	80	84	86	84	80	72	61	50	38	28
-25°	46	51	55	56	55	51	46	39	31	25	19
-27.5°	27	30	32	32	32	30	27	24	19	16	13
-30°	17	18	19	19	19	18	17	15	13	11	10
-32.5°	11	12	12	12	12	12	11	11	10	9	9
-35°	9	9	10	10	10	9	9	9	8	8	7
-37.5°	7	8	8	8	8	8	7	7	7	6	6
-40°	6	6	6	6	6	6	6	6	6	5	5
-42.5°	5	5	5	5	5	5	5	5	5	5	5
-45°	5	5	5	5	5	5	5	5	5	5	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°	3	3	3	4	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	2	3	3	3	3	3	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	2	2	2	2	2	2	2	2	2	1	1
-72.5°	1	1	1	1	1	1	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	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°	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	1	1	1	1	1	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°	1	1	1	1	1	1	1	1	1	1	1
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°	2	2	2	2	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	2	2	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	3	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	3	2	2	2	2	2	2
52.5°	3	3	3	3	3	3	3	2	2	2	2
50°	4	4	4	3	3	3	3	3	2	2	2
47.5°	4	4	4	4	4	3	3	3	3	3	2
45°	4	4	4	4	4	4	4	3	3	3	3
42.5°	5	4	4	4	4	4	4	4	3	3	3
40°	5	5	5	4	4	4	4	4	4	3	3
37.5°	5	5	5	5	5	4	4	4	4	4	3
35°	6	6	5	5	5	5	4	4	4	4	4
32.5°	8	7	6	6	5	5	5	4	4	4	4
30°	9	8	7	6	6	5	5	5	4	4	4
27.5°	11	10	9	7	6	6	5	5	4	4	4
25°	15	12	10	9	7	6	5	5	5	4	4
22.5°	20	15	12	10	8	7	6	5	5	4	4
20°	30	20	15	11	9	8	6	5	5	5	4
17.5°	43	28	19	13	10	9	7	6	5	5	4
15°	58	38	25	16	11	9	8	6	5	5	5
12.5°	74	50	31	19	13	10	8	7	6	5	5
10°	89	61	39	24	15	11	9	7	6	5	5
7.5°	101	72	46	27	17	11	9	7	6	5	5
5°	110	80	51	30	18	12	9	8	6	5	5
2.5°	115	84	55	32	19	12	10	8	6	5	5
0°	117	86	56	32	19	12	10	8	6	5	5
-2.5°	115	84	55	32	19	12	10	8	6	5	5
-5°	110	80	51	30	18	12	9	8	6	5	5
-7.5°	101	72	46	27	17	11	9	7	6	5	5
-10°	89	61	39	24	15	11	9	7	6	5	5
-12.5°	74	50	31	19	13	10	8	7	6	5	5
-15°	58	38	25	16	11	9	8	6	5	5	5
-17.5°	43	28	19	13	10	9	7	6	5	5	4
-20°	30	20	15	11	9	8	6	5	5	5	4



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	20	15	12	10	8	7	6	5	5	4	4
-25°	15	12	10	9	7	6	5	5	5	4	4
-27.5°	11	10	9	7	6	6	5	5	4	4	4
-30°	9	8	7	6	6	5	5	5	4	4	4
-32.5°	8	7	6	6	5	5	5	4	4	4	4
-35°	6	6	5	5	5	5	4	4	4	4	4
-37.5°	5	5	5	5	5	4	4	4	4	4	3
-40°	5	5	5	4	4	4	4	4	4	3	3
-42.5°	5	4	4	4	4	4	4	4	3	3	3
-45°	4	4	4	4	4	4	4	3	3	3	3
-47.5°	4	4	4	4	4	3	3	3	3	3	2
-50°	4	4	4	3	3	3	3	3	2	2	2
-52.5°	3	3	3	3	3	3	3	2	2	2	2
-55°	3	3	3	3	3	2	2	2	2	2	2
-57.5°	3	3	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	2	2	1
-65°	2	2	2	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	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°	1	1	1	1	1	1	1	1	1	1	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°	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	1	1	0	0	0	0	0	0	0	0	0
77.5°	1	1	1	1	1	0	0	0	0	0	0
75°	1	1	1	1	1	1	1	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	0	0
70°	1	1	1	1	1	1	1	1	1	1	0
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	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	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	1	1	1	1	1	1	1
50°	2	2	2	2	2	1	1	1	1	1	1
47.5°	2	2	2	2	2	2	1	1	1	1	1
45°	2	2	2	2	2	2	1	1	1	1	1
42.5°	3	2	2	2	2	2	2	1	1	1	1
40°	3	2	2	2	2	2	2	1	1	1	1
37.5°	3	3	2	2	2	2	2	2	1	1	1
35°	3	3	3	2	2	2	2	2	1	1	1
32.5°	3	3	3	2	2	2	2	2	1	1	1
30°	4	3	3	3	2	2	2	2	1	1	1
27.5°	4	3	3	3	2	2	2	2	2	1	1
25°	4	4	3	3	2	2	2	2	2	1	1
22.5°	4	4	3	3	3	2	2	2	2	1	1
20°	4	4	3	3	3	2	2	2	2	1	1
17.5°	4	4	4	3	3	2	2	2	2	1	1
15°	4	4	4	3	3	2	2	2	2	1	1
12.5°	4	4	4	3	3	2	2	2	2	2	1
10°	4	4	4	3	3	2	2	2	2	2	1
7.5°	4	4	4	3	3	2	2	2	2	2	1
5°	4	4	4	3	3	3	2	2	2	2	1
2.5°	4	4	4	3	3	3	2	2	2	2	1
0°	4	4	4	4	3	3	2	2	2	2	1
-2.5°	4	4	4	3	3	3	2	2	2	2	1
-5°	4	4	4	3	3	3	2	2	2	2	1
-7.5°	4	4	4	3	3	2	2	2	2	2	1
-10°	4	4	4	3	3	2	2	2	2	2	1
-12.5°	4	4	4	3	3	2	2	2	2	2	1
-15°	4	4	4	3	3	2	2	2	2	1	1
-17.5°	4	4	4	3	3	2	2	2	2	1	1
-20°	4	4	3	3	3	2	2	2	2	1	1



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	3	3	3	2	2	2	2	1	1
-25°	4	4	3	3	2	2	2	2	2	1	1
-27.5°	4	3	3	3	2	2	2	2	2	1	1
-30°	4	3	3	3	2	2	2	2	1	1	1
-32.5°	3	3	3	2	2	2	2	2	1	1	1
-35°	3	3	3	2	2	2	2	2	1	1	1
-37.5°	3	3	2	2	2	2	2	2	1	1	1
-40°	3	2	2	2	2	2	2	1	1	1	1
-42.5°	3	2	2	2	2	2	2	1	1	1	1
-45°	2	2	2	2	2	2	1	1	1	1	1
-47.5°	2	2	2	2	2	2	1	1	1	1	1
-50°	2	2	2	2	2	1	1	1	1	1	1
-52.5°	2	2	2	2	1	1	1	1	1	1	1
-55°	2	2	2	1	1	1	1	1	1	1	1
-57.5°	2	2	1	1	1	1	1	1	1	1	1
-60°	2	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	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	0
-72.5°	1	1	1	1	1	1	1	1	1	0	0
-75°	1	1	1	1	1	1	1	0	0	0	0
-77.5°	1	1	1	1	1	0	0	0	0	0	0
-80°	1	1	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: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	1	0	0	0	0	0	0
60°	1	0	0	0	0	0	0
57.5°	1	1	0	0	0	0	0
55°	1	1	0	0	0	0	0
52.5°	1	1	0	0	0	0	0
50°	1	1	1	0	0	0	0
47.5°	1	1	1	0	0	0	0
45°	1	1	1	0	0	0	0
42.5°	1	1	1	0	0	0	0
40°	1	1	1	0	0	0	0
37.5°	1	1	1	0	0	0	0
35°	1	1	1	0	0	0	0
32.5°	1	1	1	0	0	0	0
30°	1	1	1	1	0	0	0
27.5°	1	1	1	1	0	0	0
25°	1	1	1	1	0	0	0
22.5°	1	1	1	1	0	0	0
20°	1	1	1	1	0	0	0
17.5°	1	1	1	1	0	0	0
15°	1	1	1	1	0	0	0
12.5°	1	1	1	1	0	0	0
10°	1	1	1	1	0	0	0
7.5°	1	1	1	1	0	0	0
5°	1	1	1	1	0	0	0
2.5°	1	1	1	1	0	0	0
0°	1	1	1	1	0	0	0
-2.5°	1	1	1	1	0	0	0
-5°	1	1	1	1	0	0	0
-7.5°	1	1	1	1	0	0	0
-10°	1	1	1	1	0	0	0
-12.5°	1	1	1	1	0	0	0
-15°	1	1	1	1	0	0	0
-17.5°	1	1	1	1	0	0	0
-20°	1	1	1	1	0	0	0



REPORT NUMBER: P220307 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	1	1	1	0	0	0
-25°	1	1	1	1	0	0	0
-27.5°	1	1	1	1	0	0	0
-30°	1	1	1	1	0	0	0
-32.5°	1	1	1	0	0	0	0
-35°	1	1	1	0	0	0	0
-37.5°	1	1	1	0	0	0	0
-40°	1	1	1	0	0	0	0
-42.5°	1	1	1	0	0	0	0
-45°	1	1	1	0	0	0	0
-47.5°	1	1	1	0	0	0	0
-50°	1	1	1	0	0	0	0
-52.5°	1	1	0	0	0	0	0
-55°	1	1	0	0	0	0	0
-57.5°	1	1	0	0	0	0	0
-60°	1	0	0	0	0	0	0
-62.5°	1	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)