

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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

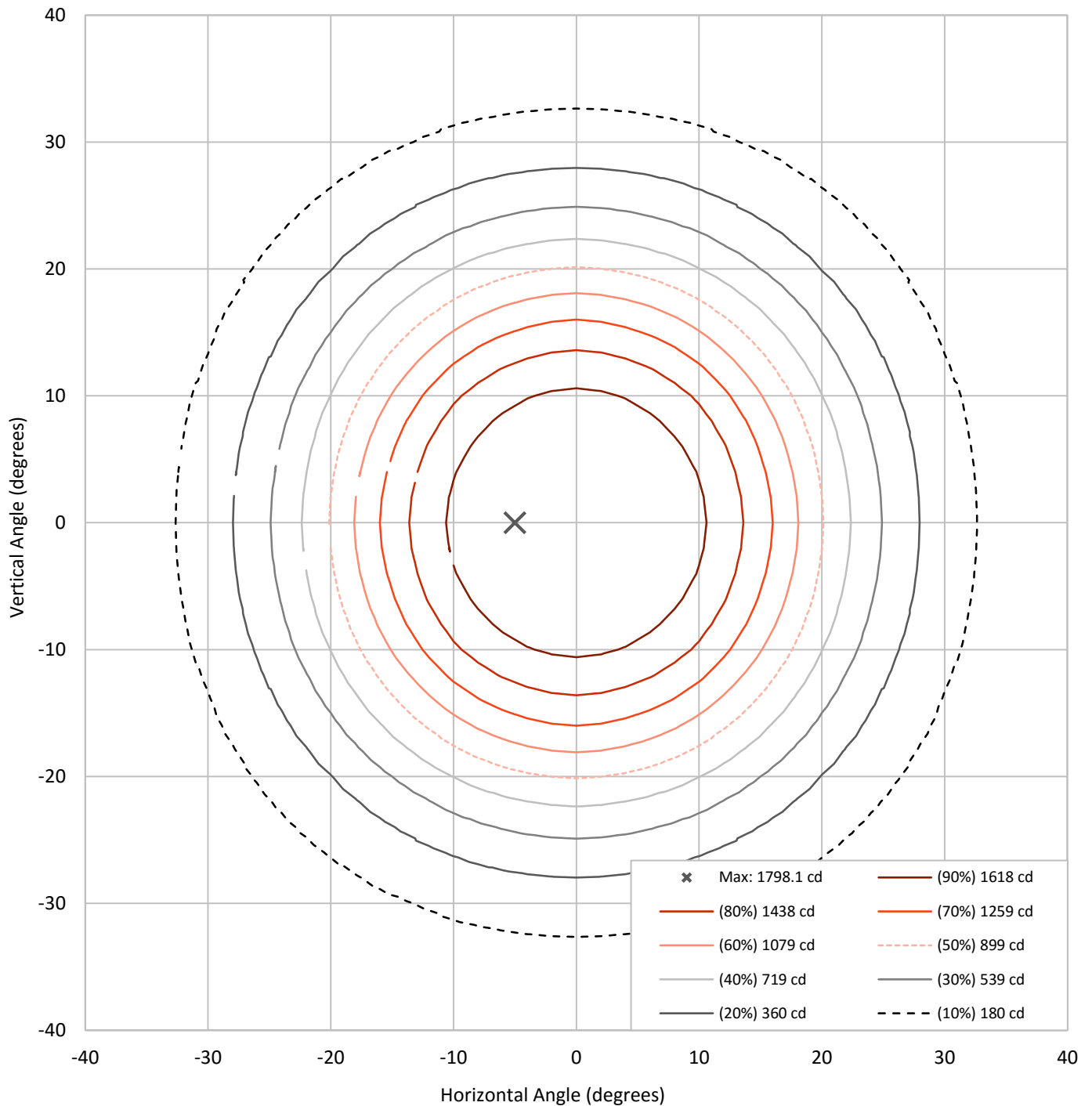
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	880.7 lumens	Max Intensity:	1798.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	88.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	537.1 lumens	Field Lumens:	804.4 lumens
Beam Efficiency:	61.0%	Field Efficiency:	91.3%
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		



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

Iso-Candela Plot





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

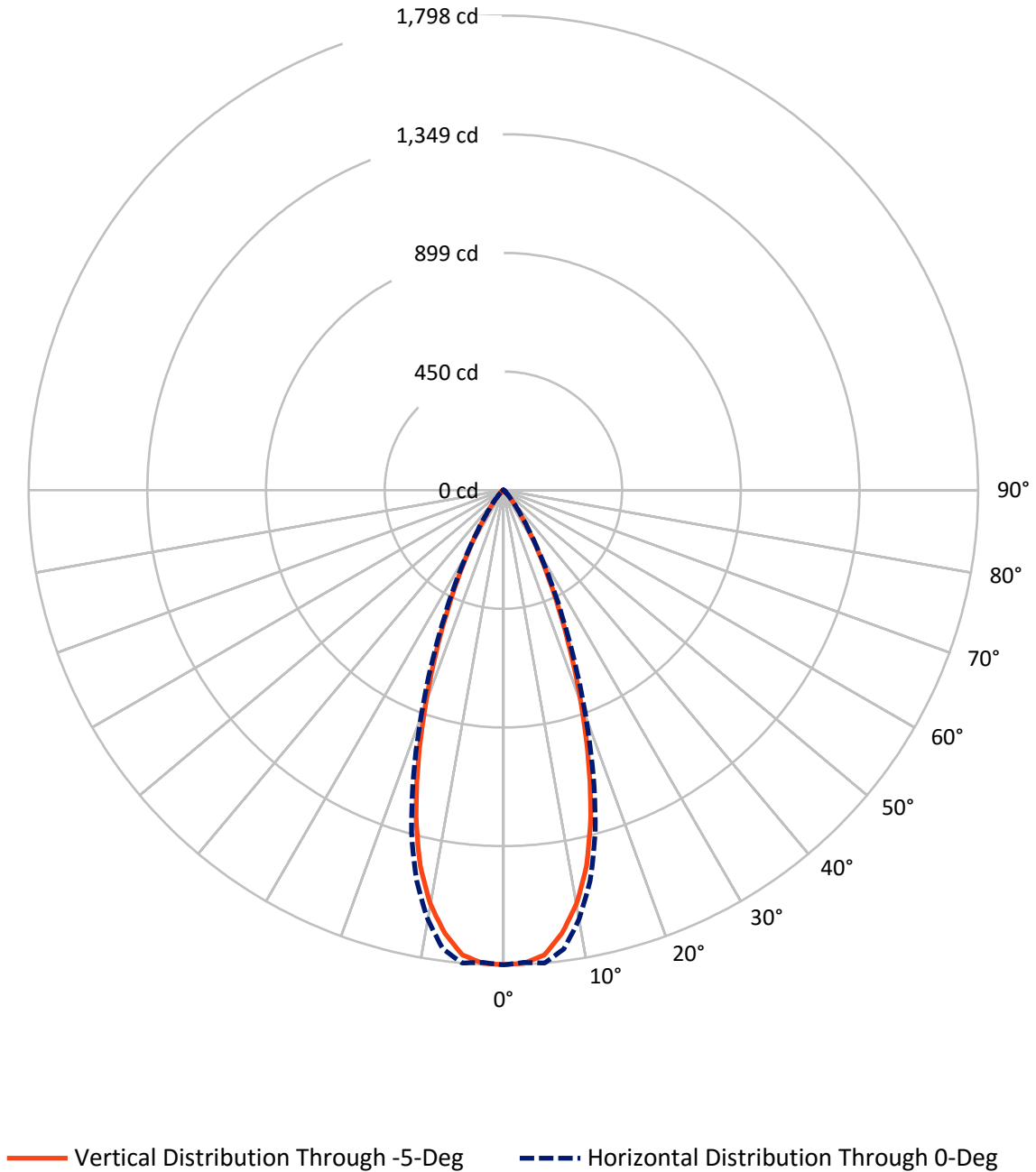
Lumen Table

90	0.0														
80	0.0														
70	0.0														
60	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
50	0.0														
40	0.0	0.0	0.1	0.1	0.3	0.5	0.7	0.7	0.5	0.3	0.1	0.1	0.0	0.0	0.0
30	0.0														
20	0.0	0.1	0.2	1.0	3.8	9.6	15.5	15.5	9.6	3.8	1.0	0.2	0.1	0.0	0.0
10	0.0														
0	0.0	0.1	0.5	3.2	14.2	36.4	51.8	51.8	36.4	14.2	3.2	0.5	0.1	0.0	0.0
-10	0.0														
-20	0.0	0.1	0.4	2.2	9.1	24.0	37.5	37.5	24.0	9.1	2.2	0.4	0.1	0.0	0.0
-30	0.0														
-40	0.0	0.0	0.1	0.4	1.1	2.5	3.8	3.8	2.5	1.1	0.4	0.1	0.0	0.0	0.0
-50	0.0														
-60	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
-70	0.0														
-80	0.0														
-90	0.0														

REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)

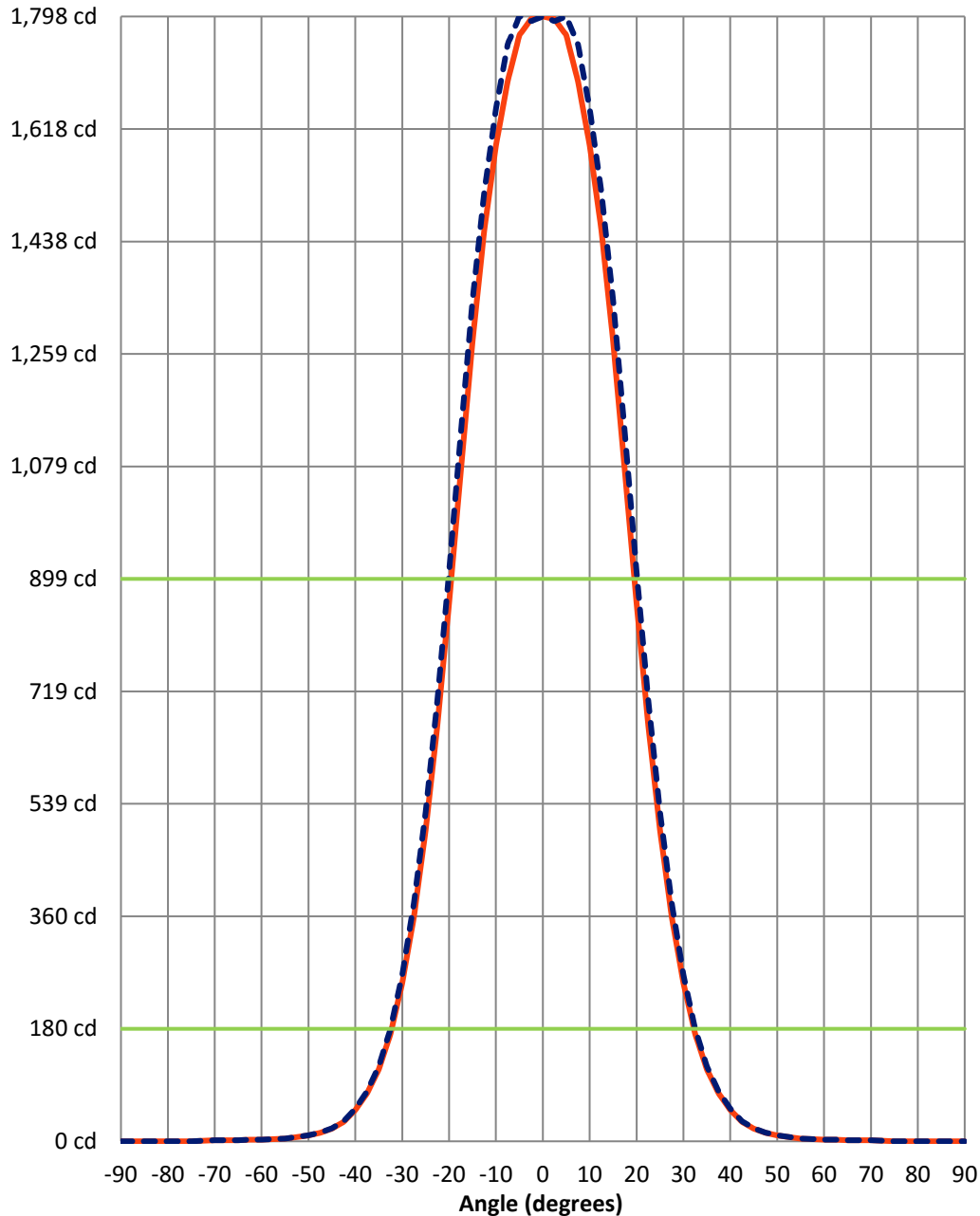
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-BK-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 40.3°
 V Angle: 39.1°
 Lumens: 537.1
 Efficiency: 61.0%

Field:
 H Angle: 65°
 V Angle: 64.5°
 Lumens: 804.4
 Efficiency: 91.3%

Spill:
 Lumens: 76.3
 Efficiency: 8.7%

— 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	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	2
35°	0	0	0	0	0	0	0	0	0	1	2
32.5°	0	0	0	0	0	0	0	0	1	1	2
30°	0	0	0	0	0	0	0	0	1	1	2
27.5°	0	0	0	0	0	0	0	0	1	2	2
25°	0	0	0	0	0	0	0	0	1	2	2
22.5°	0	0	0	0	0	0	0	0	1	2	2
20°	0	0	0	0	0	0	0	1	1	2	2
17.5°	0	0	0	0	0	0	0	1	1	2	2
15°	0	0	0	0	0	0	0	1	1	2	2
12.5°	0	0	0	0	0	0	0	1	2	2	2
10°	0	0	0	0	0	0	0	1	2	2	2
7.5°	0	0	0	0	0	0	0	1	2	2	2
5°	0	0	0	0	0	0	0	1	2	2	2
2.5°	0	0	0	0	0	0	0	1	2	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	2	2	2
-5°	0	0	0	0	0	0	0	1	2	2	2
-7.5°	0	0	0	0	0	0	0	1	2	2	2
-10°	0	0	0	0	0	0	0	1	2	2	2
-12.5°	0	0	0	0	0	0	0	1	2	2	2
-15°	0	0	0	0	0	0	0	1	1	2	2
-17.5°	0	0	0	0	0	0	0	1	1	2	2
-20°	0	0	0	0	0	0	0	1	1	2	2



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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	2	2
-25°	0	0	0	0	0	0	0	0	1	2	2
-27.5°	0	0	0	0	0	0	0	0	1	2	2
-30°	0	0	0	0	0	0	0	0	1	1	2
-32.5°	0	0	0	0	0	0	0	0	1	1	2
-35°	0	0	0	0	0	0	0	0	0	1	2
-37.5°	0	0	0	0	0	0	0	0	0	1	2
-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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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	2
62.5°	0	0	0	0	0	1	1	1	2	2	2
60°	0	0	0	1	1	1	2	2	2	2	2
57.5°	0	0	1	1	1	2	2	2	2	2	2
55°	0	1	1	1	2	2	2	2	2	2	2
52.5°	0	1	1	2	2	2	2	2	2	3	3
50°	1	1	2	2	2	2	2	2	3	3	3
47.5°	1	2	2	2	2	2	2	3	3	3	3
45°	1	2	2	2	2	2	3	3	3	4	4
42.5°	2	2	2	2	2	3	3	3	4	4	5
40°	2	2	2	2	3	3	3	4	4	5	7
37.5°	2	2	2	2	3	3	3	4	5	7	9
35°	2	2	2	3	3	3	4	5	7	8	11
32.5°	2	2	2	3	3	4	4	6	8	10	13
30°	2	2	3	3	3	4	5	7	9	12	16
27.5°	2	2	3	3	4	4	6	8	11	15	20
25°	2	2	3	3	4	5	7	9	13	18	25
22.5°	2	3	3	3	4	6	8	11	15	21	30
20°	2	3	3	4	4	7	9	12	18	26	38
17.5°	2	3	3	4	5	7	10	14	20	30	45
15°	2	3	3	4	5	8	11	15	23	34	52
12.5°	2	3	3	4	6	8	12	17	25	39	61
10°	2	3	3	4	6	9	13	18	28	44	67
7.5°	3	3	3	4	7	9	13	19	30	47	73
5°	3	3	3	4	7	9	14	20	31	50	77
2.5°	3	3	3	4	7	10	14	21	32	52	79
0°	3	3	4	4	7	10	14	21	32	52	80
-2.5°	3	3	3	4	7	10	14	21	32	52	79
-5°	3	3	3	4	7	9	14	20	31	50	77
-7.5°	3	3	3	4	7	9	13	19	30	47	73
-10°	2	3	3	4	6	9	13	18	28	44	67
-12.5°	2	3	3	4	6	8	12	17	25	39	61
-15°	2	3	3	4	5	8	11	15	23	34	52
-17.5°	2	3	3	4	5	7	10	14	20	30	45
-20°	2	3	3	4	4	7	9	12	18	26	38



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	2	3	3	3	4	6	8	11	15	21	30
-25°	2	2	3	3	4	5	7	9	13	18	25
-27.5°	2	2	3	3	4	4	6	8	11	15	20
-30°	2	2	3	3	3	4	5	7	9	12	16
-32.5°	2	2	2	3	3	4	4	6	8	10	13
-35°	2	2	2	3	3	3	4	5	7	8	11
-37.5°	2	2	2	2	3	3	3	4	5	7	9
-40°	2	2	2	2	3	3	3	4	4	5	7
-42.5°	2	2	2	2	2	3	3	3	4	4	5
-45°	1	2	2	2	2	2	3	3	3	4	4
-47.5°	1	2	2	2	2	2	2	3	3	3	3
-50°	1	1	2	2	2	2	2	2	3	3	3
-52.5°	0	1	1	2	2	2	2	2	2	3	3
-55°	0	1	1	1	2	2	2	2	2	2	2
-57.5°	0	0	1	1	1	2	2	2	2	2	2
-60°	0	0	0	1	1	1	2	2	2	2	2
-62.5°	0	0	0	0	0	1	1	1	2	2	2
-65°	0	0	0	0	0	0	1	1	1	1	2
-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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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	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	3	3	3	3	3	3
57.5°	2	2	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	4	4	4	4	4
52.5°	3	3	3	4	4	4	4	5	5	6	6
50°	3	4	4	4	5	6	7	7	8	8	9
47.5°	4	4	5	6	7	8	9	10	11	12	13
45°	5	6	7	8	9	11	12	14	15	17	18
42.5°	7	8	9	11	13	15	18	20	23	25	28
40°	8	10	12	15	18	21	26	30	34	39	44
37.5°	11	13	16	20	25	30	38	45	52	61	67
35°	13	17	22	28	36	46	56	67	78	90	100
32.5°	17	22	29	40	51	65	79	97	113	130	148
30°	22	29	41	54	71	90	111	136	162	188	215
27.5°	28	40	54	73	96	121	155	189	230	266	302
25°	36	51	71	96	125	164	210	259	312	367	418
22.5°	46	65	90	121	164	218	276	344	417	490	559
20°	56	79	111	155	210	276	355	445	539	634	723
17.5°	67	97	136	189	259	344	445	557	674	793	904
15°	78	113	162	230	312	417	539	674	818	960	1090
12.5°	90	130	188	266	367	490	634	793	960	1122	1265
10°	100	148	215	302	418	559	723	904	1090	1265	1411
7.5°	109	162	237	334	462	619	800	999	1199	1378	1518
5°	115	172	253	359	497	665	860	1071	1278	1456	1592
2.5°	119	178	263	375	519	695	898	1116	1327	1502	1635
0°	120	180	266	381	526	705	910	1131	1344	1517	1650
-2.5°	119	178	263	375	519	695	898	1116	1327	1502	1635
-5°	115	172	253	359	497	665	860	1071	1278	1456	1592
-7.5°	109	162	237	334	462	619	800	999	1199	1378	1518
-10°	100	148	215	302	418	559	723	904	1090	1265	1411
-12.5°	90	130	188	266	367	490	634	793	960	1122	1265
-15°	78	113	162	230	312	417	539	674	818	960	1090
-17.5°	67	97	136	189	259	344	445	557	674	793	904
-20°	56	79	111	155	210	276	355	445	539	634	723



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	46	65	90	121	164	218	276	344	417	490	559
-25°	36	51	71	96	125	164	210	259	312	367	418
-27.5°	28	40	54	73	96	121	155	189	230	266	302
-30°	22	29	41	54	71	90	111	136	162	188	215
-32.5°	17	22	29	40	51	65	79	97	113	130	148
-35°	13	17	22	28	36	46	56	67	78	90	100
-37.5°	11	13	16	20	25	30	38	45	52	61	67
-40°	8	10	12	15	18	21	26	30	34	39	44
-42.5°	7	8	9	11	13	15	18	20	23	25	28
-45°	5	6	7	8	9	11	12	14	15	17	18
-47.5°	4	4	5	6	7	8	9	10	11	12	13
-50°	3	4	4	4	5	6	7	7	8	8	9
-52.5°	3	3	3	4	4	4	4	5	5	6	6
-55°	3	3	3	3	3	3	4	4	4	4	4
-57.5°	2	2	3	3	3	3	3	3	3	3	3
-60°	2	2	2	2	2	3	3	3	3	3	3
-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°	0	1	1	1	1	1	1	1	1	2	2
-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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	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°	3	3	3	3	3	3	3	2	2	2	2
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	4	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	4	4
52.5°	7	7	7	7	7	7	7	6	6	5	5
50°	9	9	10	10	10	9	9	9	8	8	7
47.5°	13	14	14	14	14	14	13	13	12	11	10
45°	19	20	21	21	21	20	19	18	17	15	14
42.5°	30	31	32	32	32	31	30	28	25	23	20
40°	47	50	52	52	52	50	47	44	39	34	30
37.5°	73	77	79	80	79	77	73	67	61	52	45
35°	109	115	119	120	119	115	109	100	90	78	67
32.5°	162	172	178	180	178	172	162	148	130	113	97
30°	237	253	263	266	263	253	237	215	188	162	136
27.5°	334	359	375	381	375	359	334	302	266	230	189
25°	462	497	519	526	519	497	462	418	367	312	259
22.5°	619	665	695	705	695	665	619	559	490	417	344
20°	800	860	898	910	898	860	800	723	634	539	445
17.5°	999	1071	1116	1131	1116	1071	999	904	793	674	557
15°	1199	1278	1327	1344	1327	1278	1199	1090	960	818	674
12.5°	1378	1456	1502	1517	1502	1456	1378	1265	1122	960	793
10°	1518	1592	1635	1650	1635	1592	1518	1411	1265	1090	904
7.5°	1621	1694	1740	1753	1740	1694	1621	1518	1378	1199	999
5°	1694	1768	1794	1798	1794	1768	1694	1592	1456	1278	1071
2.5°	1740	1794	1796	1791	1796	1794	1740	1635	1502	1327	1116
0°	1753	1798	1791	1798	1791	1798	1753	1650	1517	1344	1131
-2.5°	1740	1794	1796	1791	1796	1794	1740	1635	1502	1327	1116
-5°	1694	1768	1794	1798	1794	1768	1694	1592	1456	1278	1071
-7.5°	1621	1694	1740	1753	1740	1694	1621	1518	1378	1199	999
-10°	1518	1592	1635	1650	1635	1592	1518	1411	1265	1090	904
-12.5°	1378	1456	1502	1517	1502	1456	1378	1265	1122	960	793
-15°	1199	1278	1327	1344	1327	1278	1199	1090	960	818	674
-17.5°	999	1071	1116	1131	1116	1071	999	904	793	674	557
-20°	800	860	898	910	898	860	800	723	634	539	445



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	619	665	695	705	695	665	619	559	490	417	344
-25°	462	497	519	526	519	497	462	418	367	312	259
-27.5°	334	359	375	381	375	359	334	302	266	230	189
-30°	237	253	263	266	263	253	237	215	188	162	136
-32.5°	162	172	178	180	178	172	162	148	130	113	97
-35°	109	115	119	120	119	115	109	100	90	78	67
-37.5°	73	77	79	80	79	77	73	67	61	52	45
-40°	47	50	52	52	52	50	47	44	39	34	30
-42.5°	30	31	32	32	32	31	30	28	25	23	20
-45°	19	20	21	21	21	20	19	18	17	15	14
-47.5°	13	14	14	14	14	14	13	13	12	11	10
-50°	9	9	10	10	10	9	9	9	8	8	7
-52.5°	7	7	7	7	7	7	7	6	6	5	5
-55°	4	4	4	4	4	4	4	4	4	4	4
-57.5°	3	3	3	4	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	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°	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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	2	2	2	2	1	1	1	1	1	0	0
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°	3	3	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	2	2	2	2	2	2
55°	4	3	3	3	3	3	3	2	2	2	2
52.5°	4	4	4	4	3	3	3	3	3	2	2
50°	7	6	5	4	4	4	3	3	3	3	2
47.5°	9	8	7	6	5	4	4	3	3	3	3
45°	12	11	9	8	7	6	5	4	4	3	3
42.5°	18	15	13	11	9	8	7	5	4	4	3
40°	26	21	18	15	12	10	8	7	5	4	4
37.5°	38	30	25	20	16	13	11	9	7	5	4
35°	56	46	36	28	22	17	13	11	8	7	5
32.5°	79	65	51	40	29	22	17	13	10	8	6
30°	111	90	71	54	41	29	22	16	12	9	7
27.5°	155	121	96	73	54	40	28	20	15	11	8
25°	210	164	125	96	71	51	36	25	18	13	9
22.5°	276	218	164	121	90	65	46	30	21	15	11
20°	355	276	210	155	111	79	56	38	26	18	12
17.5°	445	344	259	189	136	97	67	45	30	20	14
15°	539	417	312	230	162	113	78	52	34	23	15
12.5°	634	490	367	266	188	130	90	61	39	25	17
10°	723	559	418	302	215	148	100	67	44	28	18
7.5°	800	619	462	334	237	162	109	73	47	30	19
5°	860	665	497	359	253	172	115	77	50	31	20
2.5°	898	695	519	375	263	178	119	79	52	32	21
0°	910	705	526	381	266	180	120	80	52	32	21
-2.5°	898	695	519	375	263	178	119	79	52	32	21
-5°	860	665	497	359	253	172	115	77	50	31	20
-7.5°	800	619	462	334	237	162	109	73	47	30	19
-10°	723	559	418	302	215	148	100	67	44	28	18
-12.5°	634	490	367	266	188	130	90	61	39	25	17
-15°	539	417	312	230	162	113	78	52	34	23	15
-17.5°	445	344	259	189	136	97	67	45	30	20	14
-20°	355	276	210	155	111	79	56	38	26	18	12



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	276	218	164	121	90	65	46	30	21	15	11
-25°	210	164	125	96	71	51	36	25	18	13	9
-27.5°	155	121	96	73	54	40	28	20	15	11	8
-30°	111	90	71	54	41	29	22	16	12	9	7
-32.5°	79	65	51	40	29	22	17	13	10	8	6
-35°	56	46	36	28	22	17	13	11	8	7	5
-37.5°	38	30	25	20	16	13	11	9	7	5	4
-40°	26	21	18	15	12	10	8	7	5	4	4
-42.5°	18	15	13	11	9	8	7	5	4	4	3
-45°	12	11	9	8	7	6	5	4	4	3	3
-47.5°	9	8	7	6	5	4	4	3	3	3	3
-50°	7	6	5	4	4	4	3	3	3	3	2
-52.5°	4	4	4	4	3	3	3	3	3	2	2
-55°	4	3	3	3	3	3	3	2	2	2	2
-57.5°	3	3	3	3	3	2	2	2	2	2	2
-60°	3	3	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	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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	2	1	1	1	0	0	0	0	0	0	0
57.5°	2	2	1	1	1	0	0	0	0	0	0
55°	2	2	2	1	1	1	0	0	0	0	0
52.5°	2	2	2	2	1	1	0	0	0	0	0
50°	2	2	2	2	2	1	1	0	0	0	0
47.5°	2	2	2	2	2	2	1	1	0	0	0
45°	3	2	2	2	2	2	1	1	0	0	0
42.5°	3	3	2	2	2	2	2	1	0	0	0
40°	3	3	3	2	2	2	2	1	1	0	0
37.5°	3	3	3	2	2	2	2	2	1	0	0
35°	4	3	3	3	2	2	2	2	1	0	0
32.5°	4	4	3	3	2	2	2	2	1	1	0
30°	5	4	3	3	3	2	2	2	1	1	0
27.5°	6	4	4	3	3	2	2	2	2	1	0
25°	7	5	4	3	3	2	2	2	2	1	0
22.5°	8	6	4	3	3	3	2	2	2	1	0
20°	9	7	4	4	3	3	2	2	2	1	1
17.5°	10	7	5	4	3	3	2	2	2	1	1
15°	11	8	5	4	3	3	2	2	2	1	1
12.5°	12	8	6	4	3	3	2	2	2	2	1
10°	13	9	6	4	3	3	2	2	2	2	1
7.5°	13	9	7	4	3	3	3	2	2	2	1
5°	14	9	7	4	3	3	3	2	2	2	1
2.5°	14	10	7	4	3	3	3	2	2	2	1
0°	14	10	7	4	4	3	3	2	2	2	1
-2.5°	14	10	7	4	3	3	3	2	2	2	1
-5°	14	9	7	4	3	3	3	2	2	2	1
-7.5°	13	9	7	4	3	3	3	2	2	2	1
-10°	13	9	6	4	3	3	2	2	2	2	1
-12.5°	12	8	6	4	3	3	2	2	2	2	1
-15°	11	8	5	4	3	3	2	2	2	1	1
-17.5°	10	7	5	4	3	3	2	2	2	1	1
-20°	9	7	4	4	3	3	2	2	2	1	1



REPORT NUMBER: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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°	8	6	4	3	3	3	2	2	2	1	0
-25°	7	5	4	3	3	2	2	2	2	1	0
-27.5°	6	4	4	3	3	2	2	2	2	1	0
-30°	5	4	3	3	3	2	2	2	1	1	0
-32.5°	4	4	3	3	2	2	2	2	1	1	0
-35°	4	3	3	3	2	2	2	2	1	0	0
-37.5°	3	3	3	2	2	2	2	2	1	0	0
-40°	3	3	3	2	2	2	2	1	1	0	0
-42.5°	3	3	2	2	2	2	2	1	0	0	0
-45°	3	2	2	2	2	2	1	1	0	0	0
-47.5°	2	2	2	2	2	2	1	1	0	0	0
-50°	2	2	2	2	2	1	1	0	0	0	0
-52.5°	2	2	2	2	1	1	0	0	0	0	0
-55°	2	2	2	1	1	1	0	0	0	0	0
-57.5°	2	2	1	1	1	0	0	0	0	0	0
-60°	2	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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3590-F-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: P220419 (CONVERTED FROM TYPE C PHOTOMETRY)

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