

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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED2790-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220409 (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-LED2790-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	744.9 lumens	Max Intensity:	4180.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	74.5 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:	388.8 lumens	Field Lumens:	597.1 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%

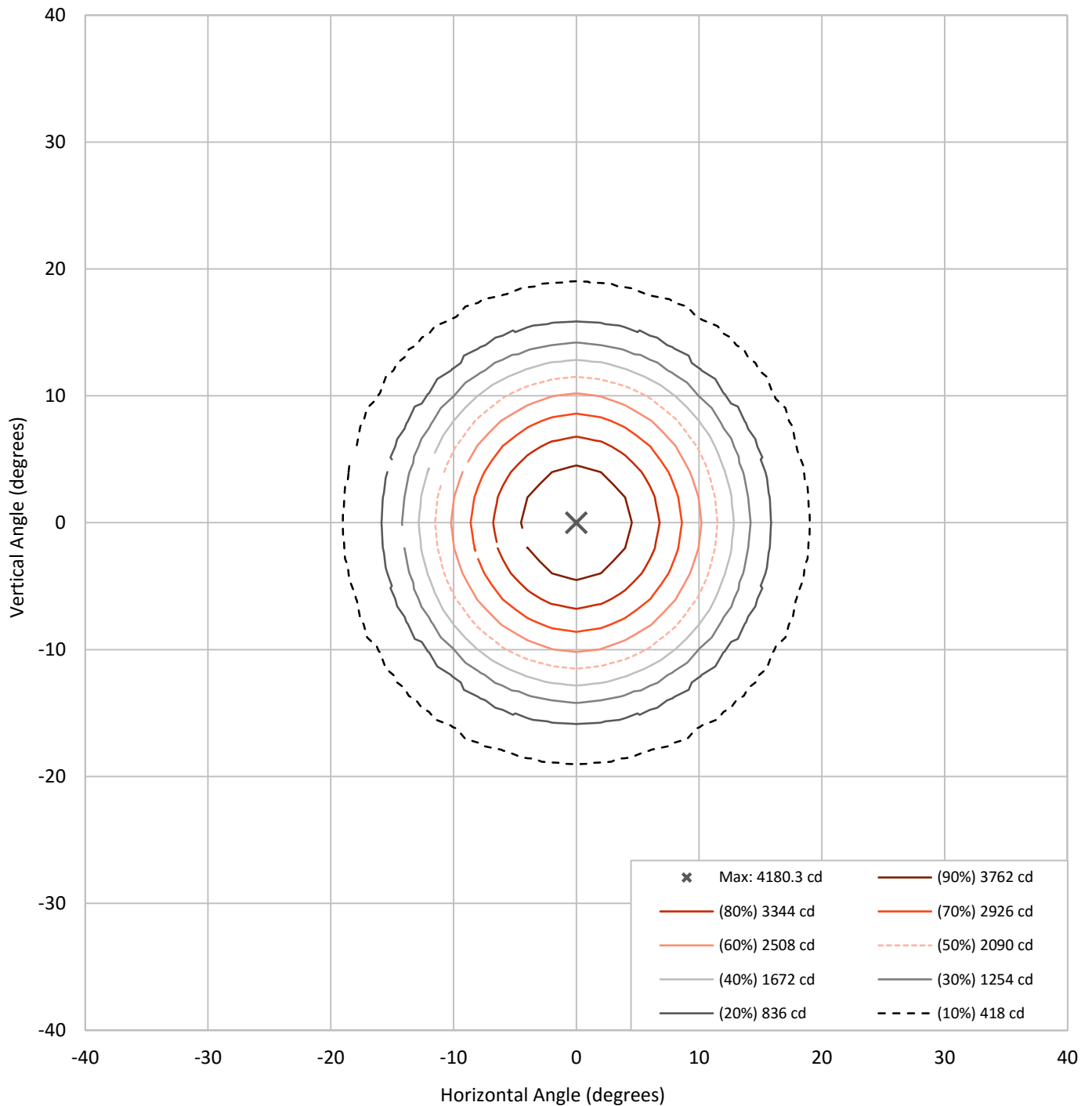
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-M-BK-L1-UNV

Iso-Candela Plot





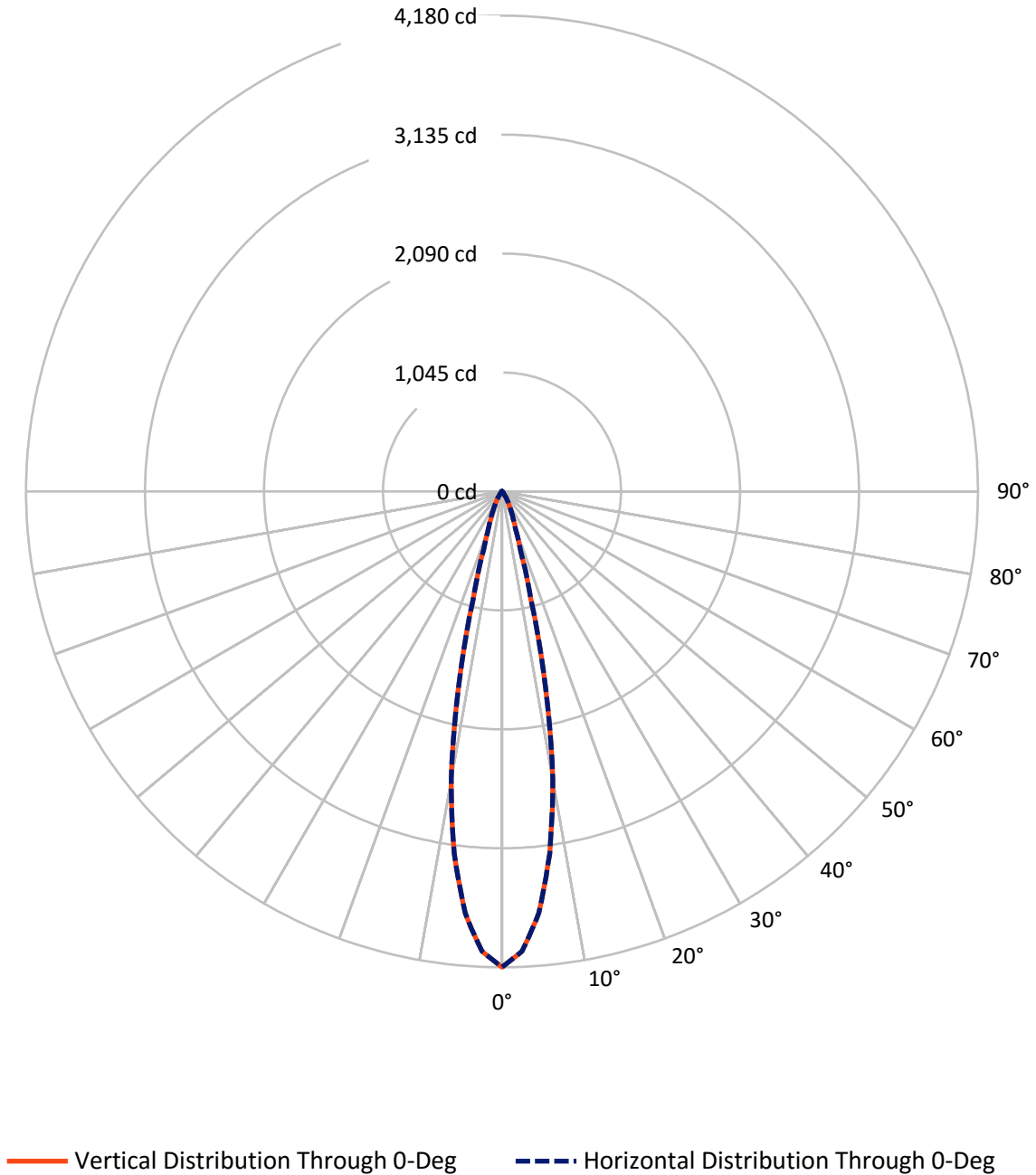
REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-M-BK-L1-UNV

Lumen Table

90	0.0															
80	0.0															
70	0.0															
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	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	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	0.0	0.0
30	0.0	0.0	0.1	0.2	0.4	0.9	1.5	1.5	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
20	0.0	0.0	0.1	0.4	1.5	3.6	5.6	5.6	3.6	1.5	0.4	0.1	0.0	0.0	0.0	0.0
10	0.0	0.0	0.2	0.8	3.4	10.1	29.0	29.0	10.1	3.4	0.8	0.2	0.0	0.0	0.0	0.0
0	0.0	0.0	0.2	1.2	5.2	28.3	92.6	92.6	28.3	5.2	1.2	0.2	0.0	0.0	0.0	0.0
-10	0.0	0.0	0.2	1.2	5.2	28.3	92.6	92.6	28.3	5.2	1.2	0.2	0.0	0.0	0.0	0.0
-20	0.0	0.0	0.2	0.8	3.4	10.1	29.0	29.0	10.1	3.4	0.8	0.2	0.0	0.0	0.0	0.0
-30	0.0	0.0	0.1	0.4	1.5	3.6	5.6	5.6	3.6	1.5	0.4	0.1	0.0	0.0	0.0	0.0
-40	0.0	0.0	0.1	0.2	0.4	0.9	1.5	1.5	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
-50	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	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	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															
-90	0.0															

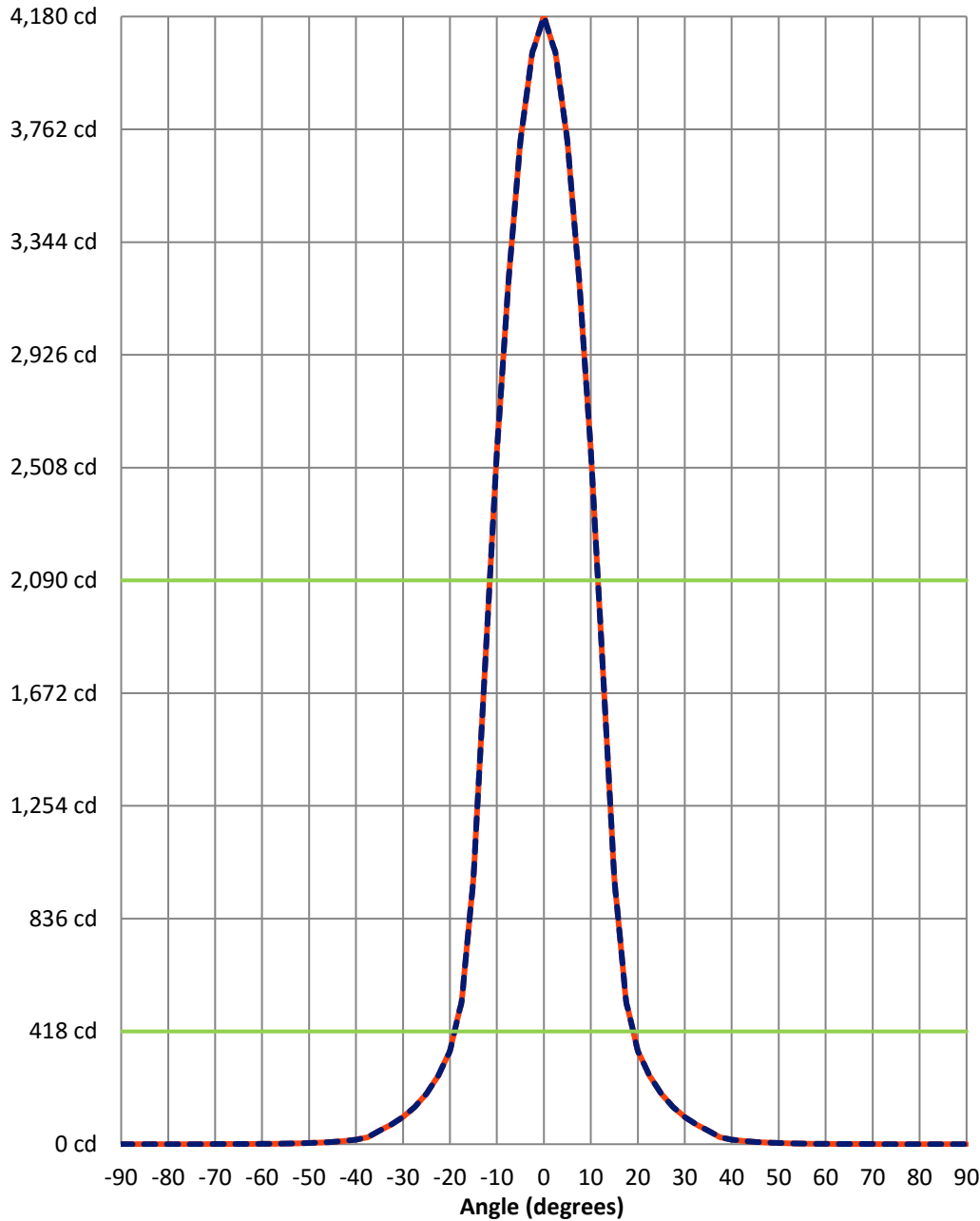
REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-M-BK-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 23°
 V Angle: 23°
 Lumens: 388.8
 Efficiency: 52.2%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 597.1
 Efficiency: 80.2%

Spill:
 Lumens: 147.8
 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	0
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	0	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	0	1	1
-20°	0	0	0	0	0	0	0	0	0	1	1



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	0
-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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	0	1
62.5°	0	0	0	0	0	0	0	0	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	1	2
47.5°	0	1	1	1	1	1	1	1	1	2	2
45°	0	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	1	2	2	2	3
40°	1	1	1	1	1	1	2	2	2	3	3
37.5°	1	1	1	1	1	2	2	2	3	3	4
35°	1	1	1	1	1	2	2	2	3	4	5
32.5°	1	1	1	1	2	2	2	3	4	5	6
30°	1	1	1	1	2	2	3	3	4	5	7
27.5°	1	1	1	2	2	2	3	4	5	6	8
25°	1	1	1	2	2	2	3	4	6	7	10
22.5°	1	1	1	2	2	3	4	5	6	8	12
20°	1	1	2	2	2	3	4	6	7	10	13
17.5°	1	1	2	2	2	3	5	6	8	11	15
15°	1	1	2	2	3	4	5	7	9	13	17
12.5°	1	1	2	2	3	4	5	7	10	14	19
10°	1	1	2	2	3	4	6	8	11	15	22
7.5°	1	1	2	2	3	4	6	8	11	16	23
5°	1	1	2	2	3	4	6	8	12	16	25
2.5°	1	1	2	2	3	4	6	8	12	17	26
0°	1	2	2	2	3	5	6	8	12	17	26
-2.5°	1	1	2	2	3	4	6	8	12	17	26
-5°	1	1	2	2	3	4	6	8	12	16	25
-7.5°	1	1	2	2	3	4	6	8	11	16	23
-10°	1	1	2	2	3	4	6	8	11	15	22
-12.5°	1	1	2	2	3	4	5	7	10	14	19
-15°	1	1	2	2	3	4	5	7	9	13	17
-17.5°	1	1	2	2	2	3	5	6	8	11	15
-20°	1	1	2	2	2	3	4	6	7	10	13



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	1	2	2	3	4	5	6	8	12
-25°	1	1	1	2	2	2	3	4	6	7	10
-27.5°	1	1	1	2	2	2	3	4	5	6	8
-30°	1	1	1	1	2	2	3	3	4	5	7
-32.5°	1	1	1	1	2	2	2	3	4	5	6
-35°	1	1	1	1	1	2	2	2	3	4	5
-37.5°	1	1	1	1	1	2	2	2	3	3	4
-40°	1	1	1	1	1	1	2	2	2	3	3
-42.5°	1	1	1	1	1	1	1	2	2	2	3
-45°	0	1	1	1	1	1	1	2	2	2	2
-47.5°	0	1	1	1	1	1	1	1	1	2	2
-50°	0	0	1	1	1	1	1	1	1	1	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	0	1	1	1
-65°	0	0	0	0	0	0	0	0	0	0	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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	0	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	1
57.5°	1	1	1	1	1	1	2	2	2	2	2
55°	1	1	1	2	2	2	2	2	2	2	2
52.5°	1	2	2	2	2	2	2	2	3	3	3
50°	2	2	2	2	2	3	3	3	4	4	4
47.5°	2	2	3	3	3	4	4	5	5	5	6
45°	2	3	3	4	4	5	6	6	7	7	8
42.5°	3	4	4	5	6	6	7	8	9	10	11
40°	4	5	5	6	7	8	10	11	13	14	15
37.5°	5	6	7	8	10	12	13	15	17	19	22
35°	6	7	9	11	13	15	18	22	25	32	38
32.5°	7	9	11	14	16	21	26	36	46	54	61
30°	9	11	14	17	23	32	45	56	66	75	84
27.5°	11	14	17	24	36	50	63	76	89	101	113
25°	13	16	23	36	52	67	83	99	116	133	150
22.5°	15	21	32	50	67	85	104	126	150	174	200
20°	18	26	45	63	83	104	130	159	192	228	262
17.5°	22	36	56	76	99	126	159	199	243	295	343
15°	25	46	66	89	116	150	192	243	306	376	479
12.5°	32	54	75	101	133	174	228	295	376	519	764
10°	38	61	84	113	150	200	262	343	479	764	1245
7.5°	43	66	91	123	165	223	298	400	632	1117	1787
5°	47	70	96	131	177	240	324	461	802	1459	2219
2.5°	49	72	100	136	185	250	341	512	939	1696	2479
0°	50	73	101	138	187	254	346	531	986	1779	2569
-2.5°	49	72	100	136	185	250	341	512	939	1696	2479
-5°	47	70	96	131	177	240	324	461	802	1459	2219
-7.5°	43	66	91	123	165	223	298	400	632	1117	1787
-10°	38	61	84	113	150	200	262	343	479	764	1245
-12.5°	32	54	75	101	133	174	228	295	376	519	764
-15°	25	46	66	89	116	150	192	243	306	376	479
-17.5°	22	36	56	76	99	126	159	199	243	295	343
-20°	18	26	45	63	83	104	130	159	192	228	262



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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°	15	21	32	50	67	85	104	126	150	174	200
-25°	13	16	23	36	52	67	83	99	116	133	150
-27.5°	11	14	17	24	36	50	63	76	89	101	113
-30°	9	11	14	17	23	32	45	56	66	75	84
-32.5°	7	9	11	14	16	21	26	36	46	54	61
-35°	6	7	9	11	13	15	18	22	25	32	38
-37.5°	5	6	7	8	10	12	13	15	17	19	22
-40°	4	5	5	6	7	8	10	11	13	14	15
-42.5°	3	4	4	5	6	6	7	8	9	10	11
-45°	2	3	3	4	4	5	6	6	7	7	8
-47.5°	2	2	3	3	3	4	4	5	5	5	6
-50°	2	2	2	2	2	3	3	3	4	4	4
-52.5°	1	2	2	2	2	2	2	2	3	3	3
-55°	1	1	1	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	1	2	2	2	2	2
-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	1	1
-67.5°	0	0	1	1	1	1	1	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	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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	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°	1	1	1	2	1	1	1	1	1	1	1
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°	3	3	3	3	3	3	3	3	3	3	2
50°	4	4	4	5	4	4	4	4	4	4	3
47.5°	6	6	6	6	6	6	6	6	5	5	5
45°	8	8	8	8	8	8	8	8	7	7	6
42.5°	11	12	12	12	12	12	11	11	10	9	8
40°	16	16	17	17	17	16	16	15	14	13	11
37.5°	23	25	26	26	26	25	23	22	19	17	15
35°	43	47	49	50	49	47	43	38	32	25	22
32.5°	66	70	72	73	72	70	66	61	54	46	36
30°	91	96	100	101	100	96	91	84	75	66	56
27.5°	123	131	136	138	136	131	123	113	101	89	76
25°	165	177	185	187	185	177	165	150	133	116	99
22.5°	223	240	250	254	250	240	223	200	174	150	126
20°	298	324	341	346	341	324	298	262	228	192	159
17.5°	400	461	512	531	512	461	400	343	295	243	199
15°	632	802	939	986	939	802	632	479	376	306	243
12.5°	1117	1459	1696	1779	1696	1459	1117	764	519	376	295
10°	1787	2219	2479	2569	2479	2219	1787	1245	764	479	343
7.5°	2394	2836	3113	3207	3113	2836	2394	1787	1117	632	400
5°	2836	3307	3608	3718	3608	3307	2836	2219	1459	802	461
2.5°	3113	3608	3933	4043	3933	3608	3113	2479	1696	939	512
0°	3207	3718	4043	4180	4043	3718	3207	2569	1779	986	531
-2.5°	3113	3608	3933	4043	3933	3608	3113	2479	1696	939	512
-5°	2836	3307	3608	3718	3608	3307	2836	2219	1459	802	461
-7.5°	2394	2836	3113	3207	3113	2836	2394	1787	1117	632	400
-10°	1787	2219	2479	2569	2479	2219	1787	1245	764	479	343
-12.5°	1117	1459	1696	1779	1696	1459	1117	764	519	376	295
-15°	632	802	939	986	939	802	632	479	376	306	243
-17.5°	400	461	512	531	512	461	400	343	295	243	199
-20°	298	324	341	346	341	324	298	262	228	192	159



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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°	223	240	250	254	250	240	223	200	174	150	126
-25°	165	177	185	187	185	177	165	150	133	116	99
-27.5°	123	131	136	138	136	131	123	113	101	89	76
-30°	91	96	100	101	100	96	91	84	75	66	56
-32.5°	66	70	72	73	72	70	66	61	54	46	36
-35°	43	47	49	50	49	47	43	38	32	25	22
-37.5°	23	25	26	26	26	25	23	22	19	17	15
-40°	16	16	17	17	17	16	16	15	14	13	11
-42.5°	11	12	12	12	12	12	11	11	10	9	8
-45°	8	8	8	8	8	8	8	8	7	7	6
-47.5°	6	6	6	6	6	6	6	6	5	5	5
-50°	4	4	4	5	4	4	4	4	4	4	3
-52.5°	3	3	3	3	3	3	3	3	3	3	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°	1	1	1	2	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°	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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	0	0	0
62.5°	1	1	1	1	1	1	1	1	1	1	0
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	2	1	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	1	1	1	1	1
50°	3	3	2	2	2	2	2	2	1	1	1
47.5°	4	4	3	3	3	2	2	2	2	1	1
45°	6	5	4	4	3	3	2	2	2	2	2
42.5°	7	6	6	5	4	4	3	3	2	2	2
40°	10	8	7	6	5	5	4	3	3	2	2
37.5°	13	12	10	8	7	6	5	4	3	3	2
35°	18	15	13	11	9	7	6	5	4	3	2
32.5°	26	21	16	14	11	9	7	6	5	4	3
30°	45	32	23	17	14	11	9	7	5	4	3
27.5°	63	50	36	24	17	14	11	8	6	5	4
25°	83	67	52	36	23	16	13	10	7	6	4
22.5°	104	85	67	50	32	21	15	12	8	6	5
20°	130	104	83	63	45	26	18	13	10	7	6
17.5°	159	126	99	76	56	36	22	15	11	8	6
15°	192	150	116	89	66	46	25	17	13	9	7
12.5°	228	174	133	101	75	54	32	19	14	10	7
10°	262	200	150	113	84	61	38	22	15	11	8
7.5°	298	223	165	123	91	66	43	23	16	11	8
5°	324	240	177	131	96	70	47	25	16	12	8
2.5°	341	250	185	136	100	72	49	26	17	12	8
0°	346	254	187	138	101	73	50	26	17	12	8
-2.5°	341	250	185	136	100	72	49	26	17	12	8
-5°	324	240	177	131	96	70	47	25	16	12	8
-7.5°	298	223	165	123	91	66	43	23	16	11	8
-10°	262	200	150	113	84	61	38	22	15	11	8
-12.5°	228	174	133	101	75	54	32	19	14	10	7
-15°	192	150	116	89	66	46	25	17	13	9	7
-17.5°	159	126	99	76	56	36	22	15	11	8	6
-20°	130	104	83	63	45	26	18	13	10	7	6



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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°	104	85	67	50	32	21	15	12	8	6	5
-25°	83	67	52	36	23	16	13	10	7	6	4
-27.5°	63	50	36	24	17	14	11	8	6	5	4
-30°	45	32	23	17	14	11	9	7	5	4	3
-32.5°	26	21	16	14	11	9	7	6	5	4	3
-35°	18	15	13	11	9	7	6	5	4	3	2
-37.5°	13	12	10	8	7	6	5	4	3	3	2
-40°	10	8	7	6	5	5	4	3	3	2	2
-42.5°	7	6	6	5	4	4	3	3	2	2	2
-45°	6	5	4	4	3	3	2	2	2	2	2
-47.5°	4	4	3	3	3	2	2	2	2	1	1
-50°	3	3	2	2	2	2	2	2	1	1	1
-52.5°	2	2	2	2	2	2	1	1	1	1	1
-55°	2	2	2	2	1	1	1	1	1	1	1
-57.5°	2	1	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	0
-65°	1	1	1	1	1	1	1	1	0	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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	0	0	0	0	0
42.5°	1	1	1	1	1	1	1	0	0	0	0
40°	2	1	1	1	1	1	1	0	0	0	0
37.5°	2	2	1	1	1	1	1	1	0	0	0
35°	2	2	1	1	1	1	1	1	0	0	0
32.5°	2	2	2	1	1	1	1	1	0	0	0
30°	3	2	2	1	1	1	1	1	1	0	0
27.5°	3	2	2	2	1	1	1	1	1	0	0
25°	3	2	2	2	1	1	1	1	1	0	0
22.5°	4	3	2	2	1	1	1	1	1	0	0
20°	4	3	2	2	2	1	1	1	1	0	0
17.5°	5	3	2	2	2	1	1	1	1	0	0
15°	5	4	3	2	2	1	1	1	1	1	0
12.5°	5	4	3	2	2	1	1	1	1	1	0
10°	6	4	3	2	2	1	1	1	1	1	0
7.5°	6	4	3	2	2	1	1	1	1	1	0
5°	6	4	3	2	2	1	1	1	1	1	0
2.5°	6	4	3	2	2	1	1	1	1	1	0
0°	6	5	3	2	2	2	1	1	1	1	0
-2.5°	6	4	3	2	2	1	1	1	1	1	0
-5°	6	4	3	2	2	1	1	1	1	1	0
-7.5°	6	4	3	2	2	1	1	1	1	1	0
-10°	6	4	3	2	2	1	1	1	1	1	0
-12.5°	5	4	3	2	2	1	1	1	1	1	0
-15°	5	4	3	2	2	1	1	1	1	1	0
-17.5°	5	3	2	2	2	1	1	1	1	0	0
-20°	4	3	2	2	2	1	1	1	1	0	0



REPORT NUMBER: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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	1	1	1	1	1	0	0
-25°	3	2	2	2	1	1	1	1	1	0	0
-27.5°	3	2	2	2	1	1	1	1	1	0	0
-30°	3	2	2	1	1	1	1	1	1	0	0
-32.5°	2	2	2	1	1	1	1	1	0	0	0
-35°	2	2	1	1	1	1	1	1	0	0	0
-37.5°	2	2	1	1	1	1	1	1	0	0	0
-40°	2	1	1	1	1	1	1	0	0	0	0
-42.5°	1	1	1	1	1	1	1	0	0	0	0
-45°	1	1	1	1	1	1	0	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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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: P220409 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-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)