

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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3090-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220418 (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-LED3090-F-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

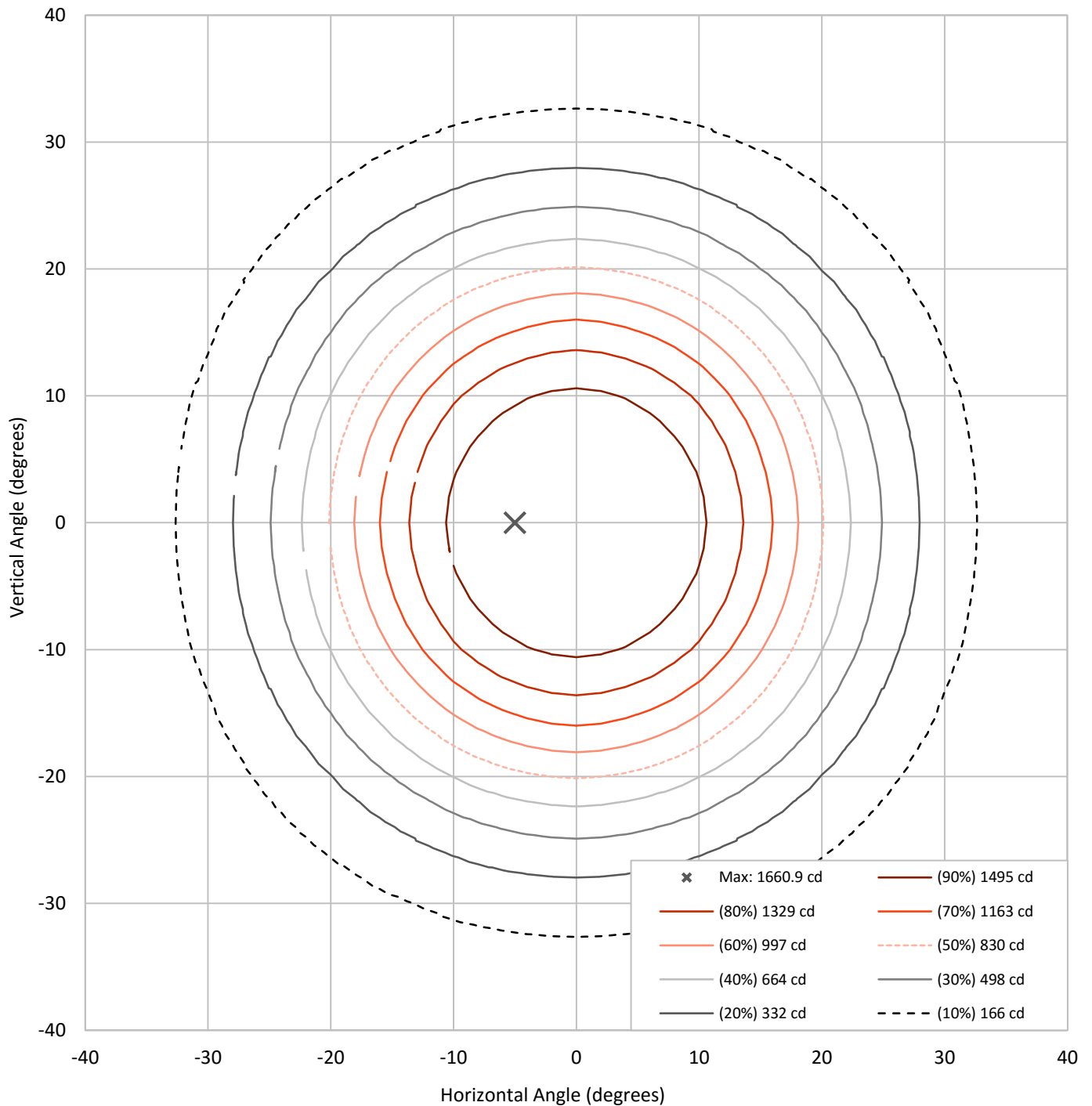
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	813.5 lumens	Max Intensity:	1660.9 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	81.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	496.1 lumens	Field Lumens:	743 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		



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-BK-L1-UNV

Iso-Candela Plot





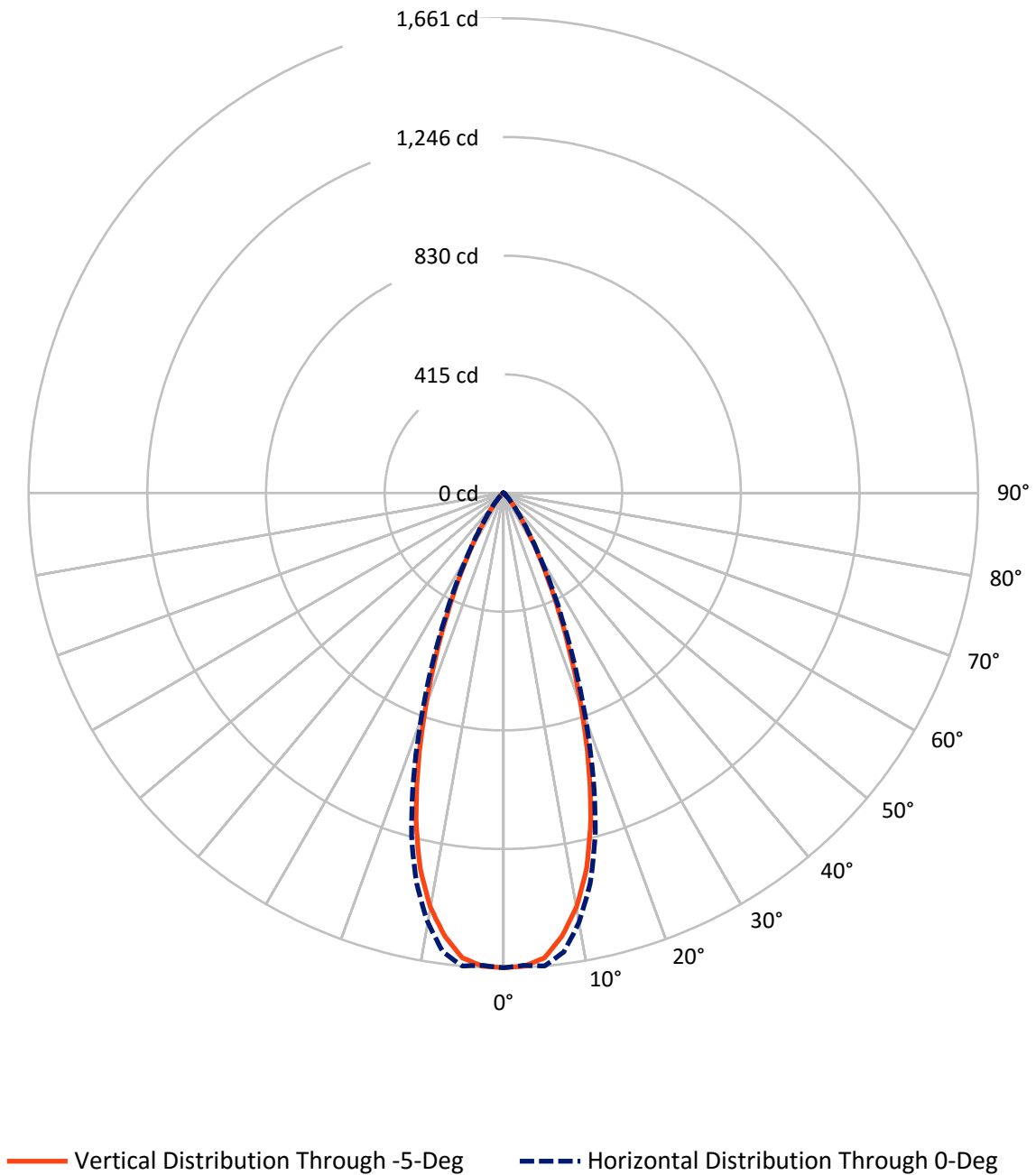
REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-BK-L1-UNV

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	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	0.1	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	0.0	0.1	0.3	1.0	2.3	3.5	3.5	2.3	1.0	0.3	0.1	0.0	0.0	0.0				
20	0.0	0.1	0.2	0.9	3.5	8.9	14.3	14.3	8.9	3.5	0.9	0.2	0.1	0.0	0.0				
10	0.0	0.1	0.4	2.0	8.4	22.2	34.6	34.6	22.2	8.4	2.0	0.4	0.1	0.0	0.0				
0	0.0	0.1	0.5	3.0	13.1	33.6	47.9	47.9	33.6	13.1	3.0	0.5	0.1	0.0	0.0				
-10	0.0	0.1	0.5	3.0	13.1	33.6	47.9	47.9	33.6	13.1	3.0	0.5	0.1	0.0	0.0				
-20	0.0	0.1	0.4	2.0	8.4	22.2	34.6	34.6	22.2	8.4	2.0	0.4	0.1	0.0	0.0				
-30	0.0	0.1	0.2	0.9	3.5	8.9	14.3	14.3	8.9	3.5	0.9	0.2	0.1	0.0	0.0				
-40	0.0	0.0	0.1	0.3	1.0	2.3	3.5	3.5	2.3	1.0	0.3	0.1	0.0	0.0	0.0				
-50	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				
-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	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				
-80	0.0																		
-90	0.0																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

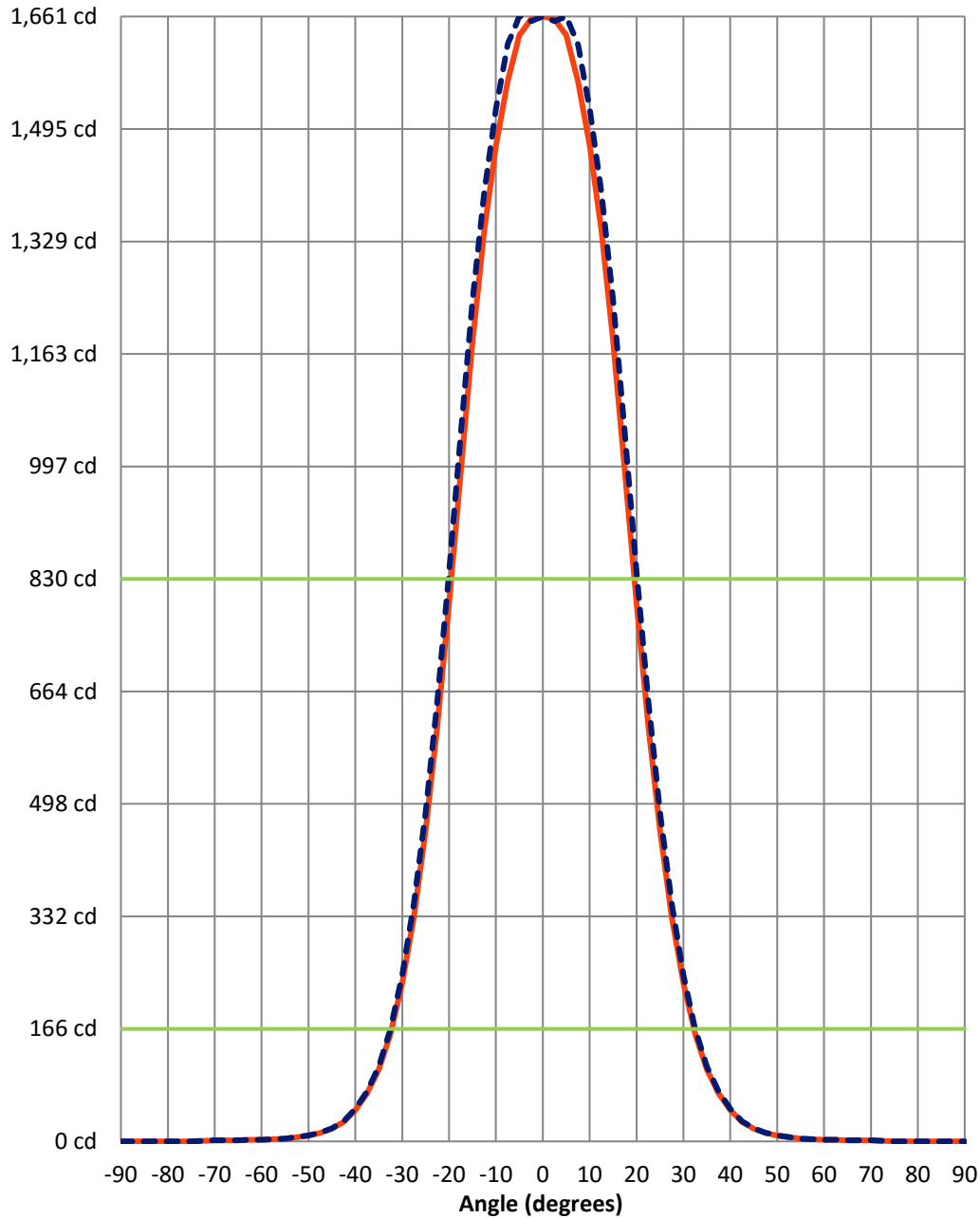
REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-BK-L1-UNV

Luminous Intensity Polar Plot



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-F-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 40.3°
V Angle: 39.1°
Lumens: 496.1
Efficiency: 61.0%

Field:
H Angle: 65°
V Angle: 64.5°
Lumens: 743
Efficiency: 91.3%

Spill:
Lumens: 70.5
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	1
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	0	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	1	2	2
10°	0	0	0	0	0	0	0	1	1	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	1	2	2
-12.5°	0	0	0	0	0	0	0	1	1	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	0	1	2	2



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	1
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	2	2
50°	1	1	2	2	2	2	2	2	2	2	3
47.5°	1	2	2	2	2	2	2	2	2	3	3
45°	1	2	2	2	2	2	2	2	3	3	4
42.5°	2	2	2	2	2	2	2	3	3	4	5
40°	2	2	2	2	2	2	3	3	4	5	6
37.5°	2	2	2	2	2	3	3	4	5	6	8
35°	2	2	2	2	2	3	4	4	6	8	10
32.5°	2	2	2	2	3	3	4	6	7	9	12
30°	2	2	2	2	3	4	5	7	8	11	15
27.5°	2	2	2	3	3	4	6	8	10	14	19
25°	2	2	2	3	4	5	7	9	12	17	23
22.5°	2	2	2	3	4	5	7	10	14	20	28
20°	2	2	3	3	4	6	8	11	16	24	35
17.5°	2	2	3	3	4	7	9	13	18	27	42
15°	2	2	3	4	5	7	10	14	21	31	48
12.5°	2	2	3	4	5	8	11	16	24	36	56
10°	2	2	3	4	6	8	12	17	26	41	62
7.5°	2	2	3	4	6	8	12	18	27	44	67
5°	2	2	3	4	6	9	12	19	29	46	71
2.5°	2	2	3	4	6	9	13	19	29	48	73
0°	2	2	3	4	6	9	13	19	30	48	74
-2.5°	2	2	3	4	6	9	13	19	29	48	73
-5°	2	2	3	4	6	9	12	19	29	46	71
-7.5°	2	2	3	4	6	8	12	18	27	44	67
-10°	2	2	3	4	6	8	12	17	26	41	62
-12.5°	2	2	3	4	5	8	11	16	24	36	56
-15°	2	2	3	4	5	7	10	14	21	31	48
-17.5°	2	2	3	3	4	7	9	13	18	27	42
-20°	2	2	3	3	4	6	8	11	16	24	35



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	2	2	3	4	5	7	10	14	20	28
-25°	2	2	2	3	4	5	7	9	12	17	23
-27.5°	2	2	2	3	3	4	6	8	10	14	19
-30°	2	2	2	2	3	4	5	7	8	11	15
-32.5°	2	2	2	2	3	3	4	6	7	9	12
-35°	2	2	2	2	2	3	4	4	6	8	10
-37.5°	2	2	2	2	2	3	3	4	5	6	8
-40°	2	2	2	2	2	2	3	3	4	5	6
-42.5°	2	2	2	2	2	2	2	3	3	4	5
-45°	1	2	2	2	2	2	2	2	3	3	4
-47.5°	1	2	2	2	2	2	2	2	2	3	3
-50°	1	1	2	2	2	2	2	2	2	2	3
-52.5°	0	1	1	2	2	2	2	2	2	2	2
-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	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	0	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	1	1
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	2	3	3	3	3	3
55°	2	2	2	3	3	3	3	3	4	4	4
52.5°	2	3	3	3	4	4	4	4	5	5	6
50°	3	3	4	4	5	5	6	7	7	8	8
47.5°	4	4	5	6	7	7	8	9	10	11	12
45°	4	6	7	8	9	10	11	13	14	16	17
42.5°	6	7	8	10	12	14	16	18	21	24	26
40°	8	9	11	14	17	20	24	27	31	36	41
37.5°	10	12	15	19	23	28	35	42	48	56	62
35°	12	16	20	26	33	42	52	62	72	83	93
32.5°	16	21	27	37	47	60	73	89	104	120	136
30°	20	27	38	50	66	83	103	126	150	173	199
27.5°	26	37	50	67	89	111	143	175	212	245	279
25°	33	47	66	89	116	152	194	239	288	339	386
22.5°	42	60	83	111	152	201	255	318	386	453	516
20°	52	73	103	143	194	255	328	411	498	586	668
17.5°	62	89	126	175	239	318	411	514	623	733	835
15°	72	104	150	212	288	386	498	623	755	887	1007
12.5°	83	120	173	245	339	453	586	733	887	1036	1168
10°	93	136	199	279	386	516	668	835	1007	1168	1303
7.5°	100	149	219	309	427	572	739	922	1107	1273	1402
5°	106	159	234	332	459	614	794	989	1181	1345	1470
2.5°	110	164	243	347	479	642	829	1031	1226	1387	1511
0°	111	166	246	352	486	651	841	1045	1241	1401	1525
-2.5°	110	164	243	347	479	642	829	1031	1226	1387	1511
-5°	106	159	234	332	459	614	794	989	1181	1345	1470
-7.5°	100	149	219	309	427	572	739	922	1107	1273	1402
-10°	93	136	199	279	386	516	668	835	1007	1168	1303
-12.5°	83	120	173	245	339	453	586	733	887	1036	1168
-15°	72	104	150	212	288	386	498	623	755	887	1007
-17.5°	62	89	126	175	239	318	411	514	623	733	835
-20°	52	73	103	143	194	255	328	411	498	586	668



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	42	60	83	111	152	201	255	318	386	453	516
-25°	33	47	66	89	116	152	194	239	288	339	386
-27.5°	26	37	50	67	89	111	143	175	212	245	279
-30°	20	27	38	50	66	83	103	126	150	173	199
-32.5°	16	21	27	37	47	60	73	89	104	120	136
-35°	12	16	20	26	33	42	52	62	72	83	93
-37.5°	10	12	15	19	23	28	35	42	48	56	62
-40°	8	9	11	14	17	20	24	27	31	36	41
-42.5°	6	7	8	10	12	14	16	18	21	24	26
-45°	4	6	7	8	9	10	11	13	14	16	17
-47.5°	4	4	5	6	7	7	8	9	10	11	12
-50°	3	3	4	4	5	5	6	7	7	8	8
-52.5°	2	3	3	3	4	4	4	4	5	5	6
-55°	2	2	2	3	3	3	3	3	4	4	4
-57.5°	2	2	2	2	2	2	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°	0	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	0	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	1	1	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	2	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	4	3
52.5°	6	6	6	6	6	6	6	6	5	5	4
50°	8	9	9	9	9	9	8	8	8	7	7
47.5°	12	12	13	13	13	12	12	12	11	10	9
45°	18	19	19	19	19	19	18	17	16	14	13
42.5°	27	29	29	30	29	29	27	26	24	21	18
40°	44	46	48	48	48	46	44	41	36	31	27
37.5°	67	71	73	74	73	71	67	62	56	48	42
35°	100	106	110	111	110	106	100	93	83	72	62
32.5°	149	159	164	166	164	159	149	136	120	104	89
30°	219	234	243	246	243	234	219	199	173	150	126
27.5°	309	332	347	352	347	332	309	279	245	212	175
25°	427	459	479	486	479	459	427	386	339	288	239
22.5°	572	614	642	651	642	614	572	516	453	386	318
20°	739	794	829	841	829	794	739	668	586	498	411
17.5°	922	989	1031	1045	1031	989	922	835	733	623	514
15°	1107	1181	1226	1241	1226	1181	1107	1007	887	755	623
12.5°	1273	1345	1387	1401	1387	1345	1273	1168	1036	887	733
10°	1402	1470	1511	1525	1511	1470	1402	1303	1168	1007	835
7.5°	1497	1565	1607	1620	1607	1565	1497	1402	1273	1107	922
5°	1565	1633	1657	1661	1657	1633	1565	1470	1345	1181	989
2.5°	1607	1657	1659	1654	1659	1657	1607	1511	1387	1226	1031
0°	1620	1661	1654	1661	1654	1661	1620	1525	1401	1241	1045
-2.5°	1607	1657	1659	1654	1659	1657	1607	1511	1387	1226	1031
-5°	1565	1633	1657	1661	1657	1633	1565	1470	1345	1181	989
-7.5°	1497	1565	1607	1620	1607	1565	1497	1402	1273	1107	922
-10°	1402	1470	1511	1525	1511	1470	1402	1303	1168	1007	835
-12.5°	1273	1345	1387	1401	1387	1345	1273	1168	1036	887	733
-15°	1107	1181	1226	1241	1226	1181	1107	1007	887	755	623
-17.5°	922	989	1031	1045	1031	989	922	835	733	623	514
-20°	739	794	829	841	829	794	739	668	586	498	411



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	572	614	642	651	642	614	572	516	453	386	318
-25°	427	459	479	486	479	459	427	386	339	288	239
-27.5°	309	332	347	352	347	332	309	279	245	212	175
-30°	219	234	243	246	243	234	219	199	173	150	126
-32.5°	149	159	164	166	164	159	149	136	120	104	89
-35°	100	106	110	111	110	106	100	93	83	72	62
-37.5°	67	71	73	74	73	71	67	62	56	48	42
-40°	44	46	48	48	48	46	44	41	36	31	27
-42.5°	27	29	29	30	29	29	27	26	24	21	18
-45°	18	19	19	19	19	19	18	17	16	14	13
-47.5°	12	12	13	13	13	12	12	12	11	10	9
-50°	8	9	9	9	9	9	8	8	8	7	7
-52.5°	6	6	6	6	6	6	6	6	5	5	4
-55°	4	4	4	4	4	4	4	4	4	4	3
-57.5°	3	3	3	3	3	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°	2	2	2	2	2	2	2	2	2	2	2
-70°	2	2	2	2	2	2	2	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	0	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	1	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	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	2	2	2	2	2	2	2
52.5°	4	4	4	3	3	3	2	2	2	2	2
50°	6	5	5	4	4	3	3	3	2	2	2
47.5°	8	7	7	6	5	4	4	3	3	2	2
45°	11	10	9	8	7	6	4	4	3	3	2
42.5°	16	14	12	10	8	7	6	5	4	3	3
40°	24	20	17	14	11	9	8	6	5	4	3
37.5°	35	28	23	19	15	12	10	8	6	5	4
35°	52	42	33	26	20	16	12	10	8	6	4
32.5°	73	60	47	37	27	21	16	12	9	7	6
30°	103	83	66	50	38	27	20	15	11	8	7
27.5°	143	111	89	67	50	37	26	19	14	10	8
25°	194	152	116	89	66	47	33	23	17	12	9
22.5°	255	201	152	111	83	60	42	28	20	14	10
20°	328	255	194	143	103	73	52	35	24	16	11
17.5°	411	318	239	175	126	89	62	42	27	18	13
15°	498	386	288	212	150	104	72	48	31	21	14
12.5°	586	453	339	245	173	120	83	56	36	24	16
10°	668	516	386	279	199	136	93	62	41	26	17
7.5°	739	572	427	309	219	149	100	67	44	27	18
5°	794	614	459	332	234	159	106	71	46	29	19
2.5°	829	642	479	347	243	164	110	73	48	29	19
0°	841	651	486	352	246	166	111	74	48	30	19
-2.5°	829	642	479	347	243	164	110	73	48	29	19
-5°	794	614	459	332	234	159	106	71	46	29	19
-7.5°	739	572	427	309	219	149	100	67	44	27	18
-10°	668	516	386	279	199	136	93	62	41	26	17
-12.5°	586	453	339	245	173	120	83	56	36	24	16
-15°	498	386	288	212	150	104	72	48	31	21	14
-17.5°	411	318	239	175	126	89	62	42	27	18	13
-20°	328	255	194	143	103	73	52	35	24	16	11



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	255	201	152	111	83	60	42	28	20	14	10
-25°	194	152	116	89	66	47	33	23	17	12	9
-27.5°	143	111	89	67	50	37	26	19	14	10	8
-30°	103	83	66	50	38	27	20	15	11	8	7
-32.5°	73	60	47	37	27	21	16	12	9	7	6
-35°	52	42	33	26	20	16	12	10	8	6	4
-37.5°	35	28	23	19	15	12	10	8	6	5	4
-40°	24	20	17	14	11	9	8	6	5	4	3
-42.5°	16	14	12	10	8	7	6	5	4	3	3
-45°	11	10	9	8	7	6	4	4	3	3	2
-47.5°	8	7	7	6	5	4	4	3	3	2	2
-50°	6	5	5	4	4	3	3	3	2	2	2
-52.5°	4	4	4	3	3	3	2	2	2	2	2
-55°	3	3	3	3	2	2	2	2	2	2	2
-57.5°	3	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	2	2	1
-65°	2	2	2	2	2	2	2	1	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°	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	2	2	2	2	2	2	1	1	0	0	0
42.5°	2	2	2	2	2	2	2	1	0	0	0
40°	3	2	2	2	2	2	2	1	1	0	0
37.5°	3	3	2	2	2	2	2	1	1	0	0
35°	4	3	2	2	2	2	2	2	1	0	0
32.5°	4	3	3	2	2	2	2	2	1	1	0
30°	5	4	3	2	2	2	2	2	1	1	0
27.5°	6	4	3	3	2	2	2	2	2	1	0
25°	7	5	4	3	2	2	2	2	2	1	0
22.5°	7	5	4	3	2	2	2	2	2	1	0
20°	8	6	4	3	3	2	2	2	2	1	0
17.5°	9	7	4	3	3	2	2	2	2	1	1
15°	10	7	5	4	3	2	2	2	2	1	1
12.5°	11	8	5	4	3	2	2	2	2	1	1
10°	12	8	6	4	3	2	2	2	2	1	1
7.5°	12	8	6	4	3	2	2	2	2	2	1
5°	12	9	6	4	3	2	2	2	2	2	1
2.5°	13	9	6	4	3	2	2	2	2	2	1
0°	13	9	6	4	3	2	2	2	2	2	1
-2.5°	13	9	6	4	3	2	2	2	2	2	1
-5°	12	9	6	4	3	2	2	2	2	2	1
-7.5°	12	8	6	4	3	2	2	2	2	2	1
-10°	12	8	6	4	3	2	2	2	2	1	1
-12.5°	11	8	5	4	3	2	2	2	2	1	1
-15°	10	7	5	4	3	2	2	2	2	1	1
-17.5°	9	7	4	3	3	2	2	2	2	1	1
-20°	8	6	4	3	3	2	2	2	2	1	0



REPORT NUMBER: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	7	5	4	3	2	2	2	2	2	1	0
-25°	7	5	4	3	2	2	2	2	2	1	0
-27.5°	6	4	3	3	2	2	2	2	2	1	0
-30°	5	4	3	2	2	2	2	2	1	1	0
-32.5°	4	3	3	2	2	2	2	2	1	1	0
-35°	4	3	2	2	2	2	2	2	1	0	0
-37.5°	3	3	2	2	2	2	2	1	1	0	0
-40°	3	2	2	2	2	2	2	1	1	0	0
-42.5°	2	2	2	2	2	2	2	1	0	0	0
-45°	2	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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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: P220418 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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)