

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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29549)
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-LEDCW-W-BK-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

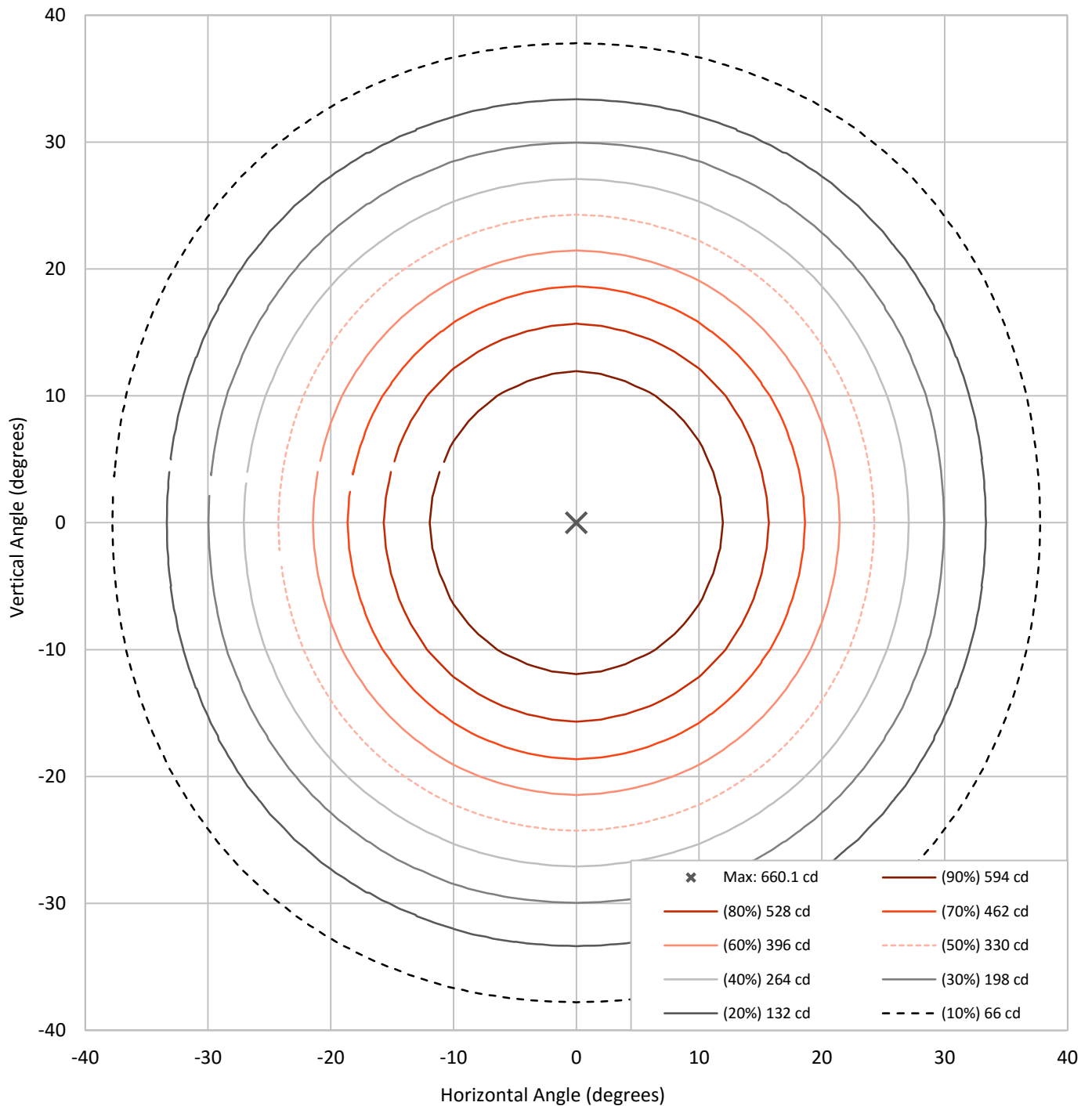
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	429.7 lumens	Max Intensity:	660.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	31.8 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	48.6°H x 48.6°V	Field Angle (10%):	75.6°H x 75.6°V
Beam Lumens:	277.2 lumens	Field Lumens:	409.9 lumens
Beam Efficiency:	64.5%	Field Efficiency:	95.4%
Input Watts (W):	13.5		
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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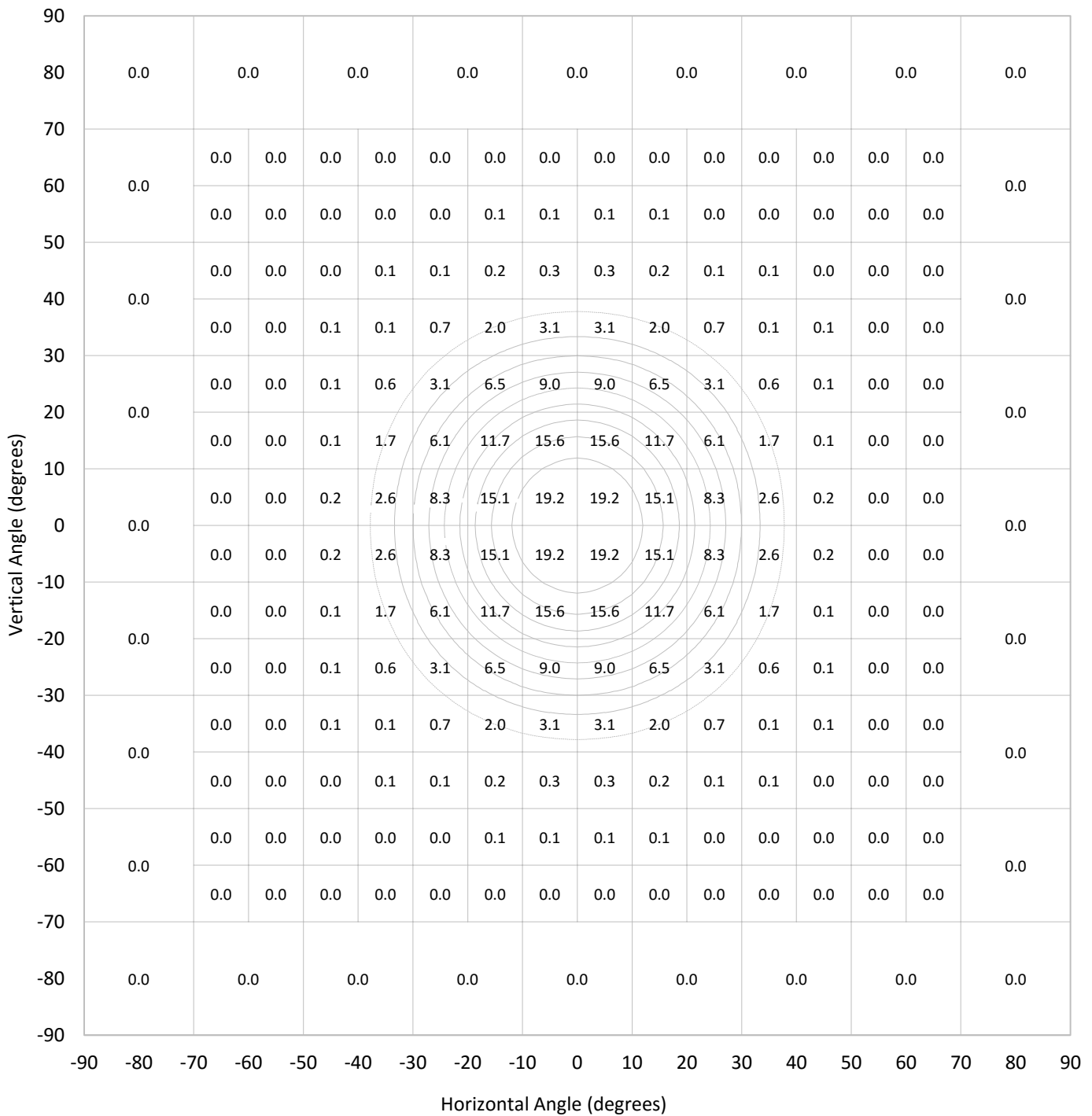
Iso-Candela Plot





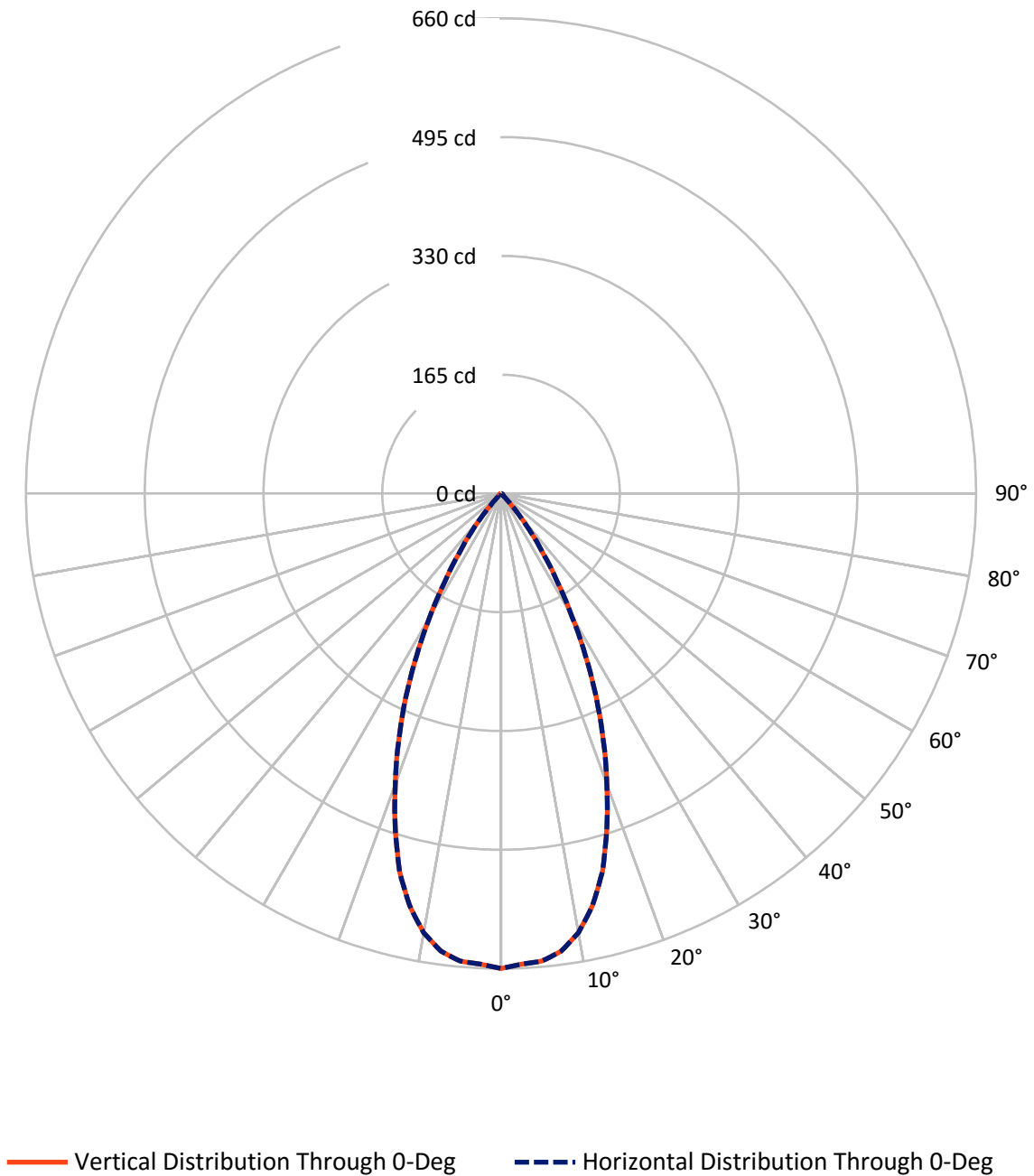
REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

Lumen Table



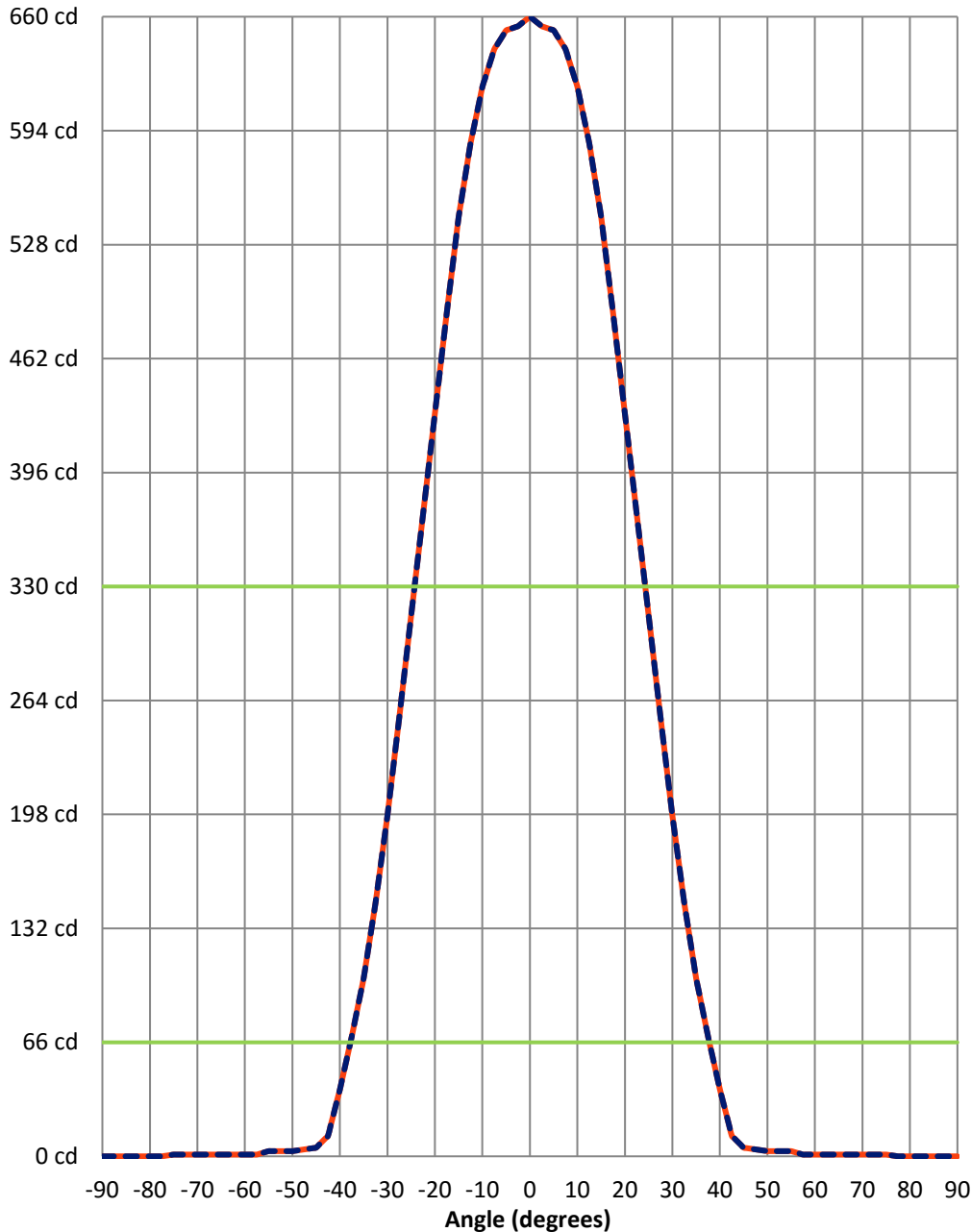
REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 48.6°
 V Angle: 48.6°
 Lumens: 277.2
 Efficiency: 64.5%

Field:
 H Angle: 75.6°
 V Angle: 75.6°
 Lumens: 409.9
 Efficiency: 95.4%

Spill:
 Lumens: 19.8
 Efficiency: 4.6%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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	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	1
52.5°	0	0	0	0	0	0	0	0	0	0	1
50°	0	0	0	0	0	0	0	0	0	1	1
47.5°	0	0	0	0	0	0	0	0	0	1	1
45°	0	0	0	0	0	0	0	0	1	1	1
42.5°	0	0	0	0	0	0	0	0	1	1	1
40°	0	0	0	0	0	0	0	0	1	1	1
37.5°	0	0	0	0	0	0	0	1	1	1	1
35°	0	0	0	0	0	0	0	1	1	1	1
32.5°	0	0	0	0	0	0	0	1	1	1	1
30°	0	0	0	0	0	0	0	1	1	1	1
27.5°	0	0	0	0	0	0	0	1	1	1	1
25°	0	0	0	0	0	0	0	1	1	1	1
22.5°	0	0	0	0	0	0	1	1	1	1	1
20°	0	0	0	0	0	0	1	1	1	1	1
17.5°	0	0	0	0	0	0	1	1	1	1	1
15°	0	0	0	0	0	0	1	1	1	1	1
12.5°	0	0	0	0	0	0	1	1	1	1	1
10°	0	0	0	0	0	0	1	1	1	1	1
7.5°	0	0	0	0	0	0	1	1	1	1	1
5°	0	0	0	0	0	0	1	1	1	1	1
2.5°	0	0	0	0	0	0	1	1	1	1	1
0°	0	0	0	0	0	0	1	1	1	1	1
-2.5°	0	0	0	0	0	0	1	1	1	1	1
-5°	0	0	0	0	0	0	1	1	1	1	1
-7.5°	0	0	0	0	0	0	1	1	1	1	1
-10°	0	0	0	0	0	0	1	1	1	1	1
-12.5°	0	0	0	0	0	0	1	1	1	1	1
-15°	0	0	0	0	0	0	1	1	1	1	1
-17.5°	0	0	0	0	0	0	1	1	1	1	1
-20°	0	0	0	0	0	0	1	1	1	1	1



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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	1	1	1	1	1
-25°	0	0	0	0	0	0	0	1	1	1	1
-27.5°	0	0	0	0	0	0	0	1	1	1	1
-30°	0	0	0	0	0	0	0	1	1	1	1
-32.5°	0	0	0	0	0	0	0	1	1	1	1
-35°	0	0	0	0	0	0	0	1	1	1	1
-37.5°	0	0	0	0	0	0	0	1	1	1	1
-40°	0	0	0	0	0	0	0	0	1	1	1
-42.5°	0	0	0	0	0	0	0	0	1	1	1
-45°	0	0	0	0	0	0	0	0	1	1	1
-47.5°	0	0	0	0	0	0	0	0	0	1	1
-50°	0	0	0	0	0	0	0	0	0	1	1
-52.5°	0	0	0	0	0	0	0	0	0	0	1
-55°	0	0	0	0	0	0	0	0	0	0	1
-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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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	1
70°	0	0	0	0	0	0	0	1	1	1	1
67.5°	0	0	0	0	0	1	1	1	1	1	1
65°	0	0	0	1	1	1	1	1	1	1	1
62.5°	0	0	1	1	1	1	1	1	1	1	1
60°	0	1	1	1	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	1	1
47.5°	1	1	1	1	1	1	1	1	1	1	1
45°	1	1	1	1	1	1	1	1	1	1	2
42.5°	1	1	1	1	1	1	1	1	1	3	3
40°	1	1	1	1	1	1	1	1	3	3	3
37.5°	1	1	1	1	1	1	1	2	3	3	3
35°	1	1	1	1	1	1	2	3	3	3	3
32.5°	1	1	1	1	1	1	3	3	3	3	4
30°	1	1	1	1	1	2	3	3	3	4	4
27.5°	1	1	1	1	1	3	3	3	3	4	5
25°	1	1	1	1	2	3	3	3	4	5	8
22.5°	1	1	1	1	2	3	3	3	4	5	11
20°	1	1	1	1	3	3	3	4	5	8	19
17.5°	1	1	1	2	3	3	3	4	5	10	30
15°	1	1	1	2	3	3	3	4	6	14	39
12.5°	1	1	1	2	3	3	4	4	8	22	48
10°	1	1	1	3	3	3	4	5	9	28	56
7.5°	1	1	1	3	3	3	4	5	10	32	62
5°	1	1	1	3	3	3	4	5	11	36	66
2.5°	1	1	1	3	3	3	4	5	12	38	69
0°	1	1	1	3	3	3	4	5	12	39	69
-2.5°	1	1	1	3	3	3	4	5	12	38	69
-5°	1	1	1	3	3	3	4	5	11	36	66
-7.5°	1	1	1	3	3	3	4	5	10	32	62
-10°	1	1	1	3	3	3	4	5	9	28	56
-12.5°	1	1	1	2	3	3	4	4	8	22	48
-15°	1	1	1	2	3	3	3	4	6	14	39
-17.5°	1	1	1	2	3	3	3	4	5	10	30
-20°	1	1	1	1	3	3	3	4	5	8	19



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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	1	2	3	3	3	4	5	11
-25°	1	1	1	1	2	3	3	3	4	5	8
-27.5°	1	1	1	1	1	3	3	3	3	4	5
-30°	1	1	1	1	1	2	3	3	3	4	4
-32.5°	1	1	1	1	1	1	3	3	3	3	4
-35°	1	1	1	1	1	1	2	3	3	3	3
-37.5°	1	1	1	1	1	1	1	2	3	3	3
-40°	1	1	1	1	1	1	1	1	3	3	3
-42.5°	1	1	1	1	1	1	1	1	1	3	3
-45°	1	1	1	1	1	1	1	1	1	1	2
-47.5°	1	1	1	1	1	1	1	1	1	1	1
-50°	1	1	1	1	1	1	1	1	1	1	1
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	1
-60°	0	1	1	1	1	1	1	1	1	1	1
-62.5°	0	0	1	1	1	1	1	1	1	1	1
-65°	0	0	0	1	1	1	1	1	1	1	1
-67.5°	0	0	0	0	0	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	1	1	1	1
-72.5°	0	0	0	0	0	0	0	0	0	0	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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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	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	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	1	1	1	1	1
55°	1	1	1	1	1	1	1	2	2	2	3
52.5°	1	1	1	1	2	2	3	3	3	3	3
50°	1	1	2	3	3	3	3	3	3	3	3
47.5°	2	3	3	3	3	3	3	3	3	4	4
45°	3	3	3	3	3	3	4	4	4	4	5
42.5°	3	3	3	3	4	4	5	5	6	8	9
40°	3	3	4	4	5	5	8	10	14	22	28
37.5°	3	4	4	5	8	11	19	30	39	48	56
35°	4	4	6	9	17	30	43	56	67	78	87
32.5°	4	6	10	22	37	53	68	84	97	111	123
30°	6	10	24	41	60	78	96	115	134	151	167
27.5°	9	22	41	62	83	104	129	152	176	197	218
25°	17	37	60	83	107	136	165	193	223	248	270
22.5°	30	53	78	104	136	169	203	238	270	299	324
20°	43	68	96	129	165	203	243	281	317	349	377
17.5°	56	84	115	152	193	238	281	323	362	397	428
15°	67	97	134	176	223	270	317	362	404	443	478
12.5°	78	111	151	197	248	299	349	397	443	486	523
10°	87	123	167	218	270	324	377	428	478	523	561
7.5°	94	133	180	233	289	344	399	453	506	553	587
5°	99	141	190	245	302	359	416	472	527	572	604
2.5°	102	145	195	252	310	369	427	485	540	583	616
0°	103	147	197	254	313	372	430	489	544	587	620
-2.5°	102	145	195	252	310	369	427	485	540	583	616
-5°	99	141	190	245	302	359	416	472	527	572	604
-7.5°	94	133	180	233	289	344	399	453	506	553	587
-10°	87	123	167	218	270	324	377	428	478	523	561
-12.5°	78	111	151	197	248	299	349	397	443	486	523
-15°	67	97	134	176	223	270	317	362	404	443	478
-17.5°	56	84	115	152	193	238	281	323	362	397	428
-20°	43	68	96	129	165	203	243	281	317	349	377



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	30	53	78	104	136	169	203	238	270	299	324
-25°	17	37	60	83	107	136	165	193	223	248	270
-27.5°	9	22	41	62	83	104	129	152	176	197	218
-30°	6	10	24	41	60	78	96	115	134	151	167
-32.5°	4	6	10	22	37	53	68	84	97	111	123
-35°	4	4	6	9	17	30	43	56	67	78	87
-37.5°	3	4	4	5	8	11	19	30	39	48	56
-40°	3	3	4	4	5	5	8	10	14	22	28
-42.5°	3	3	3	3	4	4	5	5	6	8	9
-45°	3	3	3	3	3	3	4	4	4	4	5
-47.5°	2	3	3	3	3	3	3	3	3	4	4
-50°	1	1	2	3	3	3	3	3	3	3	3
-52.5°	1	1	1	1	2	2	3	3	3	3	3
-55°	1	1	1	1	1	1	1	2	2	2	3
-57.5°	1	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	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	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	0	1	1	1	1	1	1
-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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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°	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	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	1	1	1	1	1
55°	3	3	3	3	3	3	3	3	2	2	2
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	3	3	3	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	4	4	4	4	3	3
45°	5	5	5	5	5	5	5	5	4	4	4
42.5°	10	11	12	12	12	11	10	9	8	6	5
40°	32	36	38	39	38	36	32	28	22	14	10
37.5°	62	66	69	69	69	66	62	56	48	39	30
35°	94	99	102	103	102	99	94	87	78	67	56
32.5°	133	141	145	147	145	141	133	123	111	97	84
30°	180	190	195	197	195	190	180	167	151	134	115
27.5°	233	245	252	254	252	245	233	218	197	176	152
25°	289	302	310	313	310	302	289	270	248	223	193
22.5°	344	359	369	372	369	359	344	324	299	270	238
20°	399	416	427	430	427	416	399	377	349	317	281
17.5°	453	472	485	489	485	472	453	428	397	362	323
15°	506	527	540	544	540	527	506	478	443	404	362
12.5°	553	572	583	587	583	572	553	523	486	443	397
10°	587	604	616	620	616	604	587	561	523	478	428
7.5°	612	629	638	641	638	629	612	587	553	506	453
5°	629	645	650	652	650	645	629	604	572	527	472
2.5°	638	650	654	655	654	650	638	616	583	540	485
0°	641	652	655	660	655	652	641	620	587	544	489
-2.5°	638	650	654	655	654	650	638	616	583	540	485
-5°	629	645	650	652	650	645	629	604	572	527	472
-7.5°	612	629	638	641	638	629	612	587	553	506	453
-10°	587	604	616	620	616	604	587	561	523	478	428
-12.5°	553	572	583	587	583	572	553	523	486	443	397
-15°	506	527	540	544	540	527	506	478	443	404	362
-17.5°	453	472	485	489	485	472	453	428	397	362	323
-20°	399	416	427	430	427	416	399	377	349	317	281



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	344	359	369	372	369	359	344	324	299	270	238
-25°	289	302	310	313	310	302	289	270	248	223	193
-27.5°	233	245	252	254	252	245	233	218	197	176	152
-30°	180	190	195	197	195	190	180	167	151	134	115
-32.5°	133	141	145	147	145	141	133	123	111	97	84
-35°	94	99	102	103	102	99	94	87	78	67	56
-37.5°	62	66	69	69	69	66	62	56	48	39	30
-40°	32	36	38	39	38	36	32	28	22	14	10
-42.5°	10	11	12	12	12	11	10	9	8	6	5
-45°	5	5	5	5	5	5	5	5	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	3	3
-50°	3	3	3	3	3	3	3	3	3	3	3
-52.5°	3	3	3	3	3	3	3	3	3	3	3
-55°	3	3	3	3	3	3	3	3	2	2	2
-57.5°	1	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	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	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	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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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°	1	1	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	0	0	0
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	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	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	3	2	2	1	1	1	1	1	1	1	1
50°	3	3	3	3	2	1	1	1	1	1	1
47.5°	3	3	3	3	3	3	2	1	1	1	1
45°	4	3	3	3	3	3	3	2	1	1	1
42.5°	5	4	4	3	3	3	3	3	3	1	1
40°	8	5	5	4	4	3	3	3	3	3	1
37.5°	19	11	8	5	4	4	3	3	3	3	2
35°	43	30	17	9	6	4	4	3	3	3	3
32.5°	68	53	37	22	10	6	4	4	3	3	3
30°	96	78	60	41	24	10	6	4	4	3	3
27.5°	129	104	83	62	41	22	9	5	4	3	3
25°	165	136	107	83	60	37	17	8	5	4	3
22.5°	203	169	136	104	78	53	30	11	5	4	3
20°	243	203	165	129	96	68	43	19	8	5	4
17.5°	281	238	193	152	115	84	56	30	10	5	4
15°	317	270	223	176	134	97	67	39	14	6	4
12.5°	349	299	248	197	151	111	78	48	22	8	4
10°	377	324	270	218	167	123	87	56	28	9	5
7.5°	399	344	289	233	180	133	94	62	32	10	5
5°	416	359	302	245	190	141	99	66	36	11	5
2.5°	427	369	310	252	195	145	102	69	38	12	5
0°	430	372	313	254	197	147	103	69	39	12	5
-2.5°	427	369	310	252	195	145	102	69	38	12	5
-5°	416	359	302	245	190	141	99	66	36	11	5
-7.5°	399	344	289	233	180	133	94	62	32	10	5
-10°	377	324	270	218	167	123	87	56	28	9	5
-12.5°	349	299	248	197	151	111	78	48	22	8	4
-15°	317	270	223	176	134	97	67	39	14	6	4
-17.5°	281	238	193	152	115	84	56	30	10	5	4
-20°	243	203	165	129	96	68	43	19	8	5	4



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	203	169	136	104	78	53	30	11	5	4	3
-25°	165	136	107	83	60	37	17	8	5	4	3
-27.5°	129	104	83	62	41	22	9	5	4	3	3
-30°	96	78	60	41	24	10	6	4	4	3	3
-32.5°	68	53	37	22	10	6	4	4	3	3	3
-35°	43	30	17	9	6	4	4	3	3	3	3
-37.5°	19	11	8	5	4	4	3	3	3	3	2
-40°	8	5	5	4	4	3	3	3	3	3	1
-42.5°	5	4	4	3	3	3	3	3	3	1	1
-45°	4	3	3	3	3	3	3	2	1	1	1
-47.5°	3	3	3	3	3	3	2	1	1	1	1
-50°	3	3	3	3	2	1	1	1	1	1	1
-52.5°	3	2	2	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	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	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	1
-72.5°	1	1	1	1	1	1	1	1	0	0	0
-75°	1	1	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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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°	1	1	0	0	0	0	0	0	0	0	0
65°	1	1	1	1	0	0	0	0	0	0	0
62.5°	1	1	1	1	1	0	0	0	0	0	0
60°	1	1	1	1	1	1	0	0	0	0	0
57.5°	1	1	1	1	1	1	1	0	0	0	0
55°	1	1	1	1	1	1	1	1	0	0	0
52.5°	1	1	1	1	1	1	1	1	0	0	0
50°	1	1	1	1	1	1	1	1	1	0	0
47.5°	1	1	1	1	1	1	1	1	1	0	0
45°	1	1	1	1	1	1	1	1	1	1	0
42.5°	1	1	1	1	1	1	1	1	1	1	0
40°	1	1	1	1	1	1	1	1	1	1	0
37.5°	1	1	1	1	1	1	1	1	1	1	1
35°	2	1	1	1	1	1	1	1	1	1	1
32.5°	3	1	1	1	1	1	1	1	1	1	1
30°	3	2	1	1	1	1	1	1	1	1	1
27.5°	3	3	1	1	1	1	1	1	1	1	1
25°	3	3	2	1	1	1	1	1	1	1	1
22.5°	3	3	2	1	1	1	1	1	1	1	1
20°	3	3	3	1	1	1	1	1	1	1	1
17.5°	3	3	3	2	1	1	1	1	1	1	1
15°	3	3	3	2	1	1	1	1	1	1	1
12.5°	4	3	3	2	1	1	1	1	1	1	1
10°	4	3	3	3	1	1	1	1	1	1	1
7.5°	4	3	3	3	1	1	1	1	1	1	1
5°	4	3	3	3	1	1	1	1	1	1	1
2.5°	4	3	3	3	1	1	1	1	1	1	1
0°	4	3	3	3	1	1	1	1	1	1	1
-2.5°	4	3	3	3	1	1	1	1	1	1	1
-5°	4	3	3	3	1	1	1	1	1	1	1
-7.5°	4	3	3	3	1	1	1	1	1	1	1
-10°	4	3	3	3	1	1	1	1	1	1	1
-12.5°	4	3	3	2	1	1	1	1	1	1	1
-15°	3	3	3	2	1	1	1	1	1	1	1
-17.5°	3	3	3	2	1	1	1	1	1	1	1
-20°	3	3	3	1	1	1	1	1	1	1	1



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3	3	2	1	1	1	1	1	1	1	1
-25°	3	3	2	1	1	1	1	1	1	1	1
-27.5°	3	3	1	1	1	1	1	1	1	1	1
-30°	3	2	1	1	1	1	1	1	1	1	1
-32.5°	3	1	1	1	1	1	1	1	1	1	1
-35°	2	1	1	1	1	1	1	1	1	1	1
-37.5°	1	1	1	1	1	1	1	1	1	1	1
-40°	1	1	1	1	1	1	1	1	1	1	0
-42.5°	1	1	1	1	1	1	1	1	1	1	0
-45°	1	1	1	1	1	1	1	1	1	1	0
-47.5°	1	1	1	1	1	1	1	1	1	0	0
-50°	1	1	1	1	1	1	1	1	1	0	0
-52.5°	1	1	1	1	1	1	1	1	0	0	0
-55°	1	1	1	1	1	1	1	1	0	0	0
-57.5°	1	1	1	1	1	1	1	0	0	0	0
-60°	1	1	1	1	1	1	0	0	0	0	0
-62.5°	1	1	1	1	1	0	0	0	0	0	0
-65°	1	1	1	1	0	0	0	0	0	0	0
-67.5°	1	1	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: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-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°	1	0	0	0	0	0	0
20°	1	0	0	0	0	0	0
17.5°	1	0	0	0	0	0	0
15°	1	0	0	0	0	0	0
12.5°	1	0	0	0	0	0	0
10°	1	0	0	0	0	0	0
7.5°	1	0	0	0	0	0	0
5°	1	0	0	0	0	0	0
2.5°	1	0	0	0	0	0	0
0°	1	0	0	0	0	0	0
-2.5°	1	0	0	0	0	0	0
-5°	1	0	0	0	0	0	0
-7.5°	1	0	0	0	0	0	0
-10°	1	0	0	0	0	0	0
-12.5°	1	0	0	0	0	0	0
-15°	1	0	0	0	0	0	0
-17.5°	1	0	0	0	0	0	0
-20°	1	0	0	0	0	0	0



REPORT NUMBER: P221145 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	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)