

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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221141 (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-WT-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

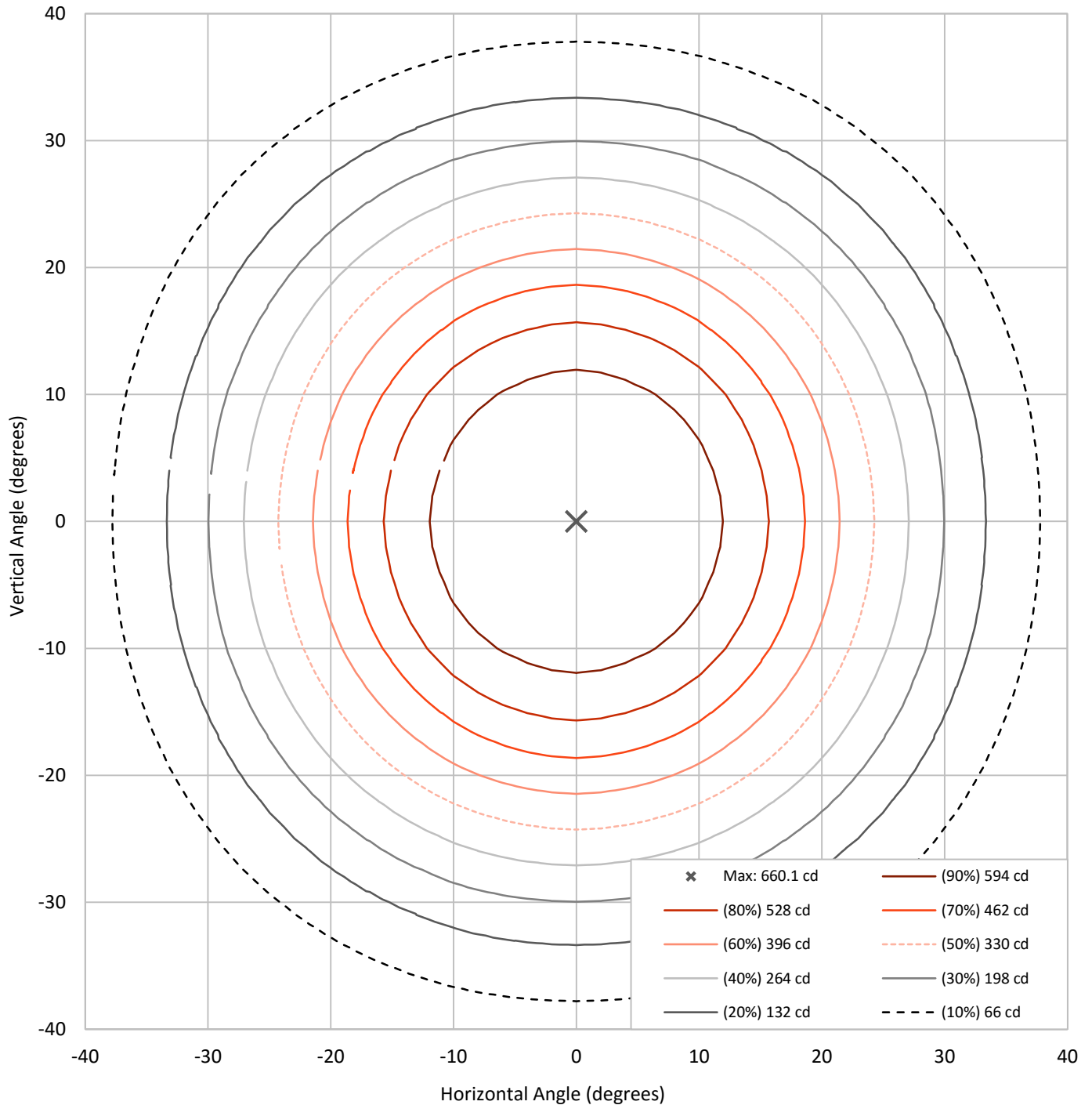
Summary

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		



REPORT NUMBER: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-LC1-UNV

Iso-Candela Plot





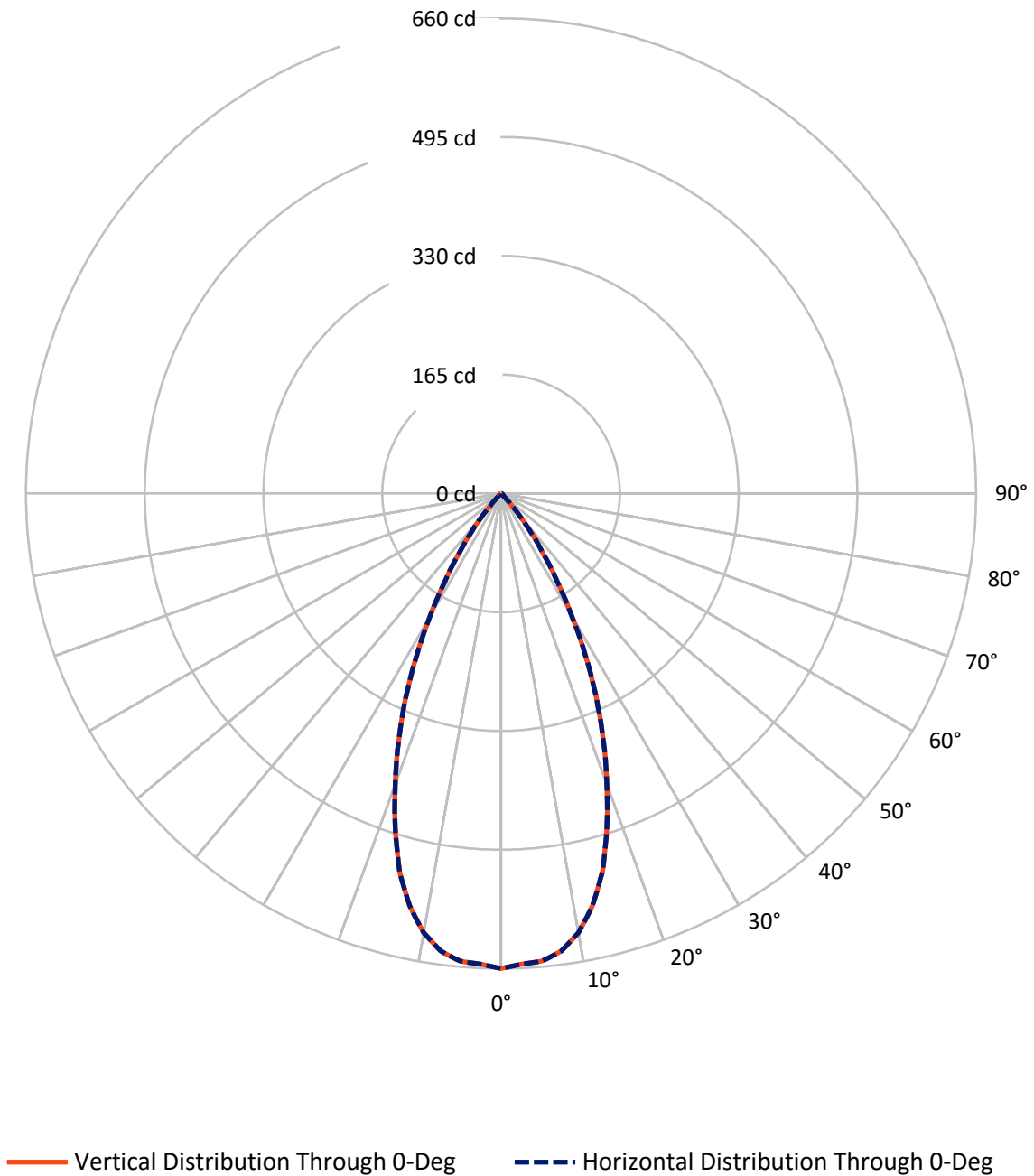
REPORT NUMBER: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-LC1-UNV

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				
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				
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				
30	0.0	0.0	0.1	0.1	0.7	2.0	3.1	3.1	2.0	0.7	0.1	0.1	0.0	0.0	0.0				
20	0.0	0.0	0.1	0.6	3.1	6.5	9.0	9.0	6.5	3.1	0.6	0.1	0.0	0.0	0.0				
10	0.0	0.0	0.1	1.7	6.1	11.7	15.6	15.6	11.7	6.1	1.7	0.1	0.0	0.0	0.0				
0	0.0	0.0	0.2	2.6	8.3	15.1	19.2	19.2	15.1	8.3	2.6	0.2	0.0	0.0	0.0				
-10	0.0	0.0	0.2	2.6	8.3	15.1	19.2	19.2	15.1	8.3	2.6	0.2	0.0	0.0	0.0				
-20	0.0	0.0	0.1	1.7	6.1	11.7	15.6	15.6	11.7	6.1	1.7	0.1	0.0	0.0	0.0				
-30	0.0	0.0	0.1	0.6	3.1	6.5	9.0	9.0	6.5	3.1	0.6	0.1	0.0	0.0	0.0				
-40	0.0	0.0	0.1	0.1	0.7	2.0	3.1	3.1	2.0	0.7	0.1	0.1	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				
-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				
-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				
-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

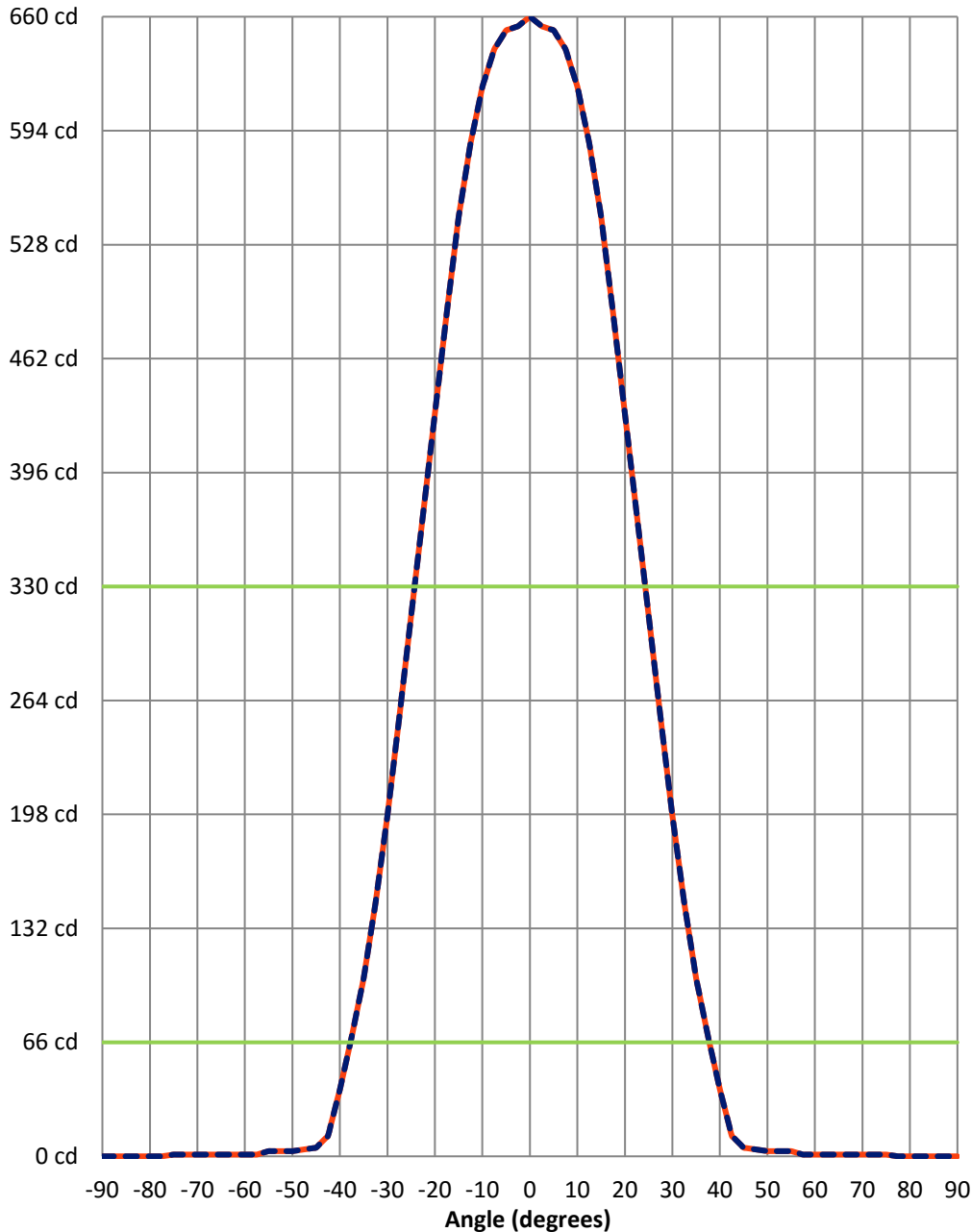
REPORT NUMBER: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-LC1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-LC1-UNV

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-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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: P221141 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-W-WT-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)