

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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29548)
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-F-WT-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

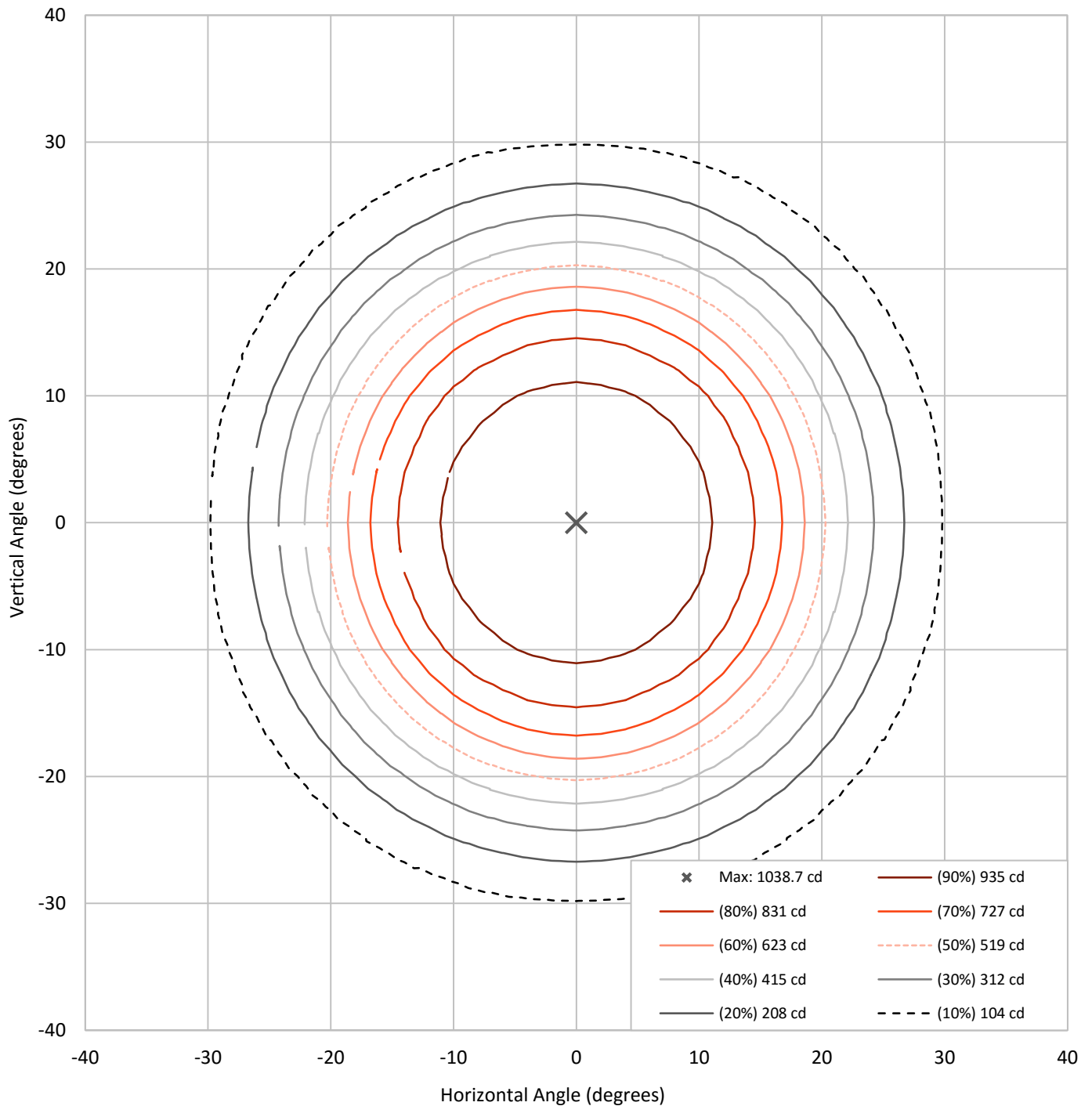
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	462.1 lumens	Max Intensity:	1038.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	34.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.6°H x 40.6°V	Field Angle (10%):	59.6°H x 59.6°V
Beam Lumens:	317.9 lumens	Field Lumens:	440.2 lumens
Beam Efficiency:	68.8%	Field Efficiency:	95.3%
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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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-WT-LC1-UNV

Iso-Candela Plot





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

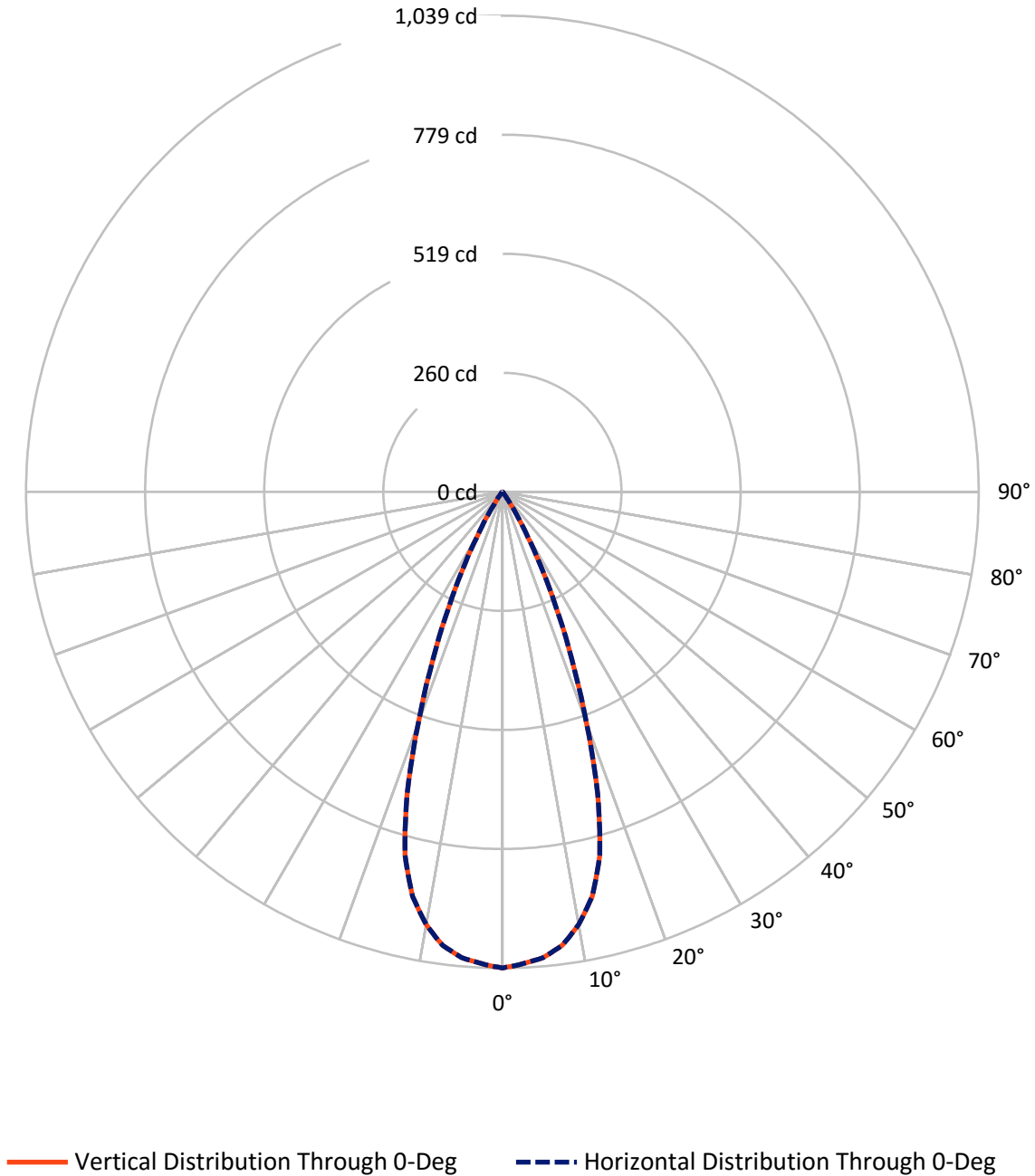
Lumen Table

90	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	0.0
80	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	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	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		
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40		0.0	0.0	0.0	0.0	0.1	0.4	0.8	0.8	0.4	0.1	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.1	0.9	4.2	8.0	8.0	4.2	0.9	0.1	0.0	0.0	0.0	0.0	
20		0.0	0.0	0.0	0.3	4.0	13.9	22.5	22.5	13.9	4.0	0.3	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.7	7.3	21.9	29.8	29.8	21.9	7.3	0.7	0.0	0.0	0.0	0.0	
0		0.0	0.0	0.0	0.7	7.3	21.9	29.8	29.8	21.9	7.3	0.7	0.0	0.0	0.0		
-10	0.0	0.0	0.0	0.0	0.7	7.3	21.9	29.8	29.8	21.9	7.3	0.7	0.0	0.0	0.0	0.0	
-20		0.0	0.0	0.0	0.3	4.0	13.9	22.5	22.5	13.9	4.0	0.3	0.0	0.0	0.0		
-30	0.0	0.0	0.0	0.0	0.1	0.9	4.2	8.0	8.0	4.2	0.9	0.1	0.0	0.0	0.0	0.0	
-40		0.0	0.0	0.0	0.0	0.1	0.4	0.8	0.8	0.4	0.1	0.0	0.0	0.0	0.0		
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	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		
-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	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		
-90	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	

REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)

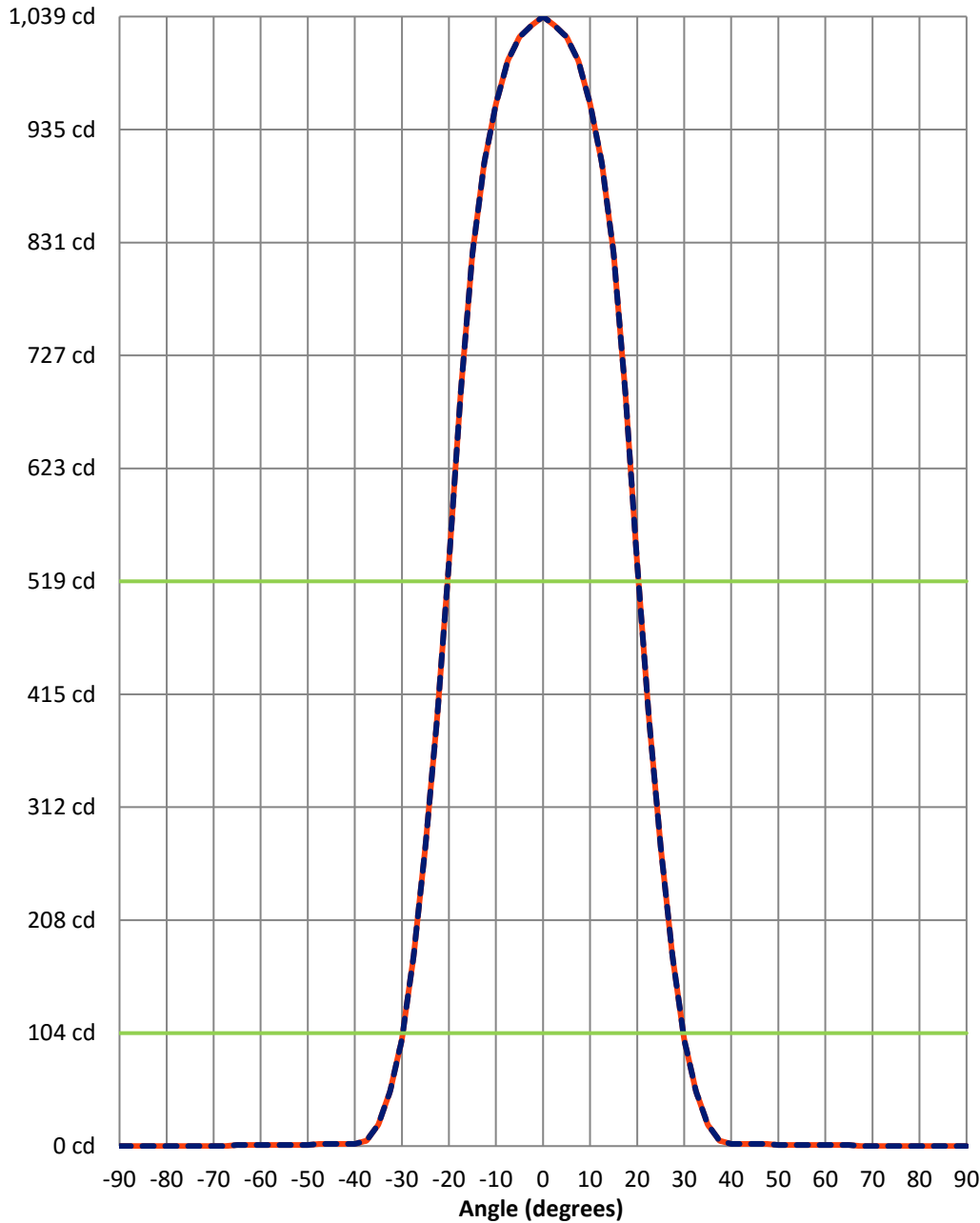
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-WT-LC1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
H Angle: 40.6°
V Angle: 40.6°
Lumens: 317.9
Efficiency: 68.8%

Field:
H Angle: 59.6°
V Angle: 59.6°
Lumens: 440.2
Efficiency: 95.3%

Spill:
Lumens: 21.9
Efficiency: 4.7%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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	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	0
35°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	1
15°	0	0	0	0	0	0	0	0	0	0	1
12.5°	0	0	0	0	0	0	0	0	0	0	1
10°	0	0	0	0	0	0	0	0	0	0	1
7.5°	0	0	0	0	0	0	0	0	0	0	1
5°	0	0	0	0	0	0	0	0	0	0	1
2.5°	0	0	0	0	0	0	0	0	0	0	1
0°	0	0	0	0	0	0	0	0	0	0	1
-2.5°	0	0	0	0	0	0	0	0	0	0	1
-5°	0	0	0	0	0	0	0	0	0	0	1
-7.5°	0	0	0	0	0	0	0	0	0	0	1
-10°	0	0	0	0	0	0	0	0	0	0	1
-12.5°	0	0	0	0	0	0	0	0	0	0	1
-15°	0	0	0	0	0	0	0	0	0	0	1
-17.5°	0	0	0	0	0	0	0	0	0	0	1
-20°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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	0	0	0	0	0
-25°	0	0	0	0	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0	0	0	0	0
-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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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	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	1	1
55°	0	0	0	0	0	0	0	1	1	1	1
52.5°	0	0	0	0	0	0	1	1	1	1	1
50°	0	0	0	0	0	1	1	1	1	1	1
47.5°	0	0	0	0	1	1	1	1	1	1	1
45°	0	0	0	1	1	1	1	1	1	1	1
42.5°	0	0	0	1	1	1	1	1	1	1	1
40°	0	0	1	1	1	1	1	1	1	1	1
37.5°	0	0	1	1	1	1	1	1	1	1	1
35°	0	1	1	1	1	1	1	1	1	1	1
32.5°	0	1	1	1	1	1	1	1	1	1	2
30°	0	1	1	1	1	1	1	1	1	2	2
27.5°	1	1	1	1	1	1	1	1	1	2	2
25°	1	1	1	1	1	1	1	1	2	2	2
22.5°	1	1	1	1	1	1	1	1	2	2	2
20°	1	1	1	1	1	1	1	2	2	2	2
17.5°	1	1	1	1	1	1	1	2	2	2	2
15°	1	1	1	1	1	1	1	2	2	2	2
12.5°	1	1	1	1	1	1	2	2	2	2	3
10°	1	1	1	1	1	1	2	2	2	2	4
7.5°	1	1	1	1	1	1	2	2	2	2	4
5°	1	1	1	1	1	1	2	2	2	2	5
2.5°	1	1	1	1	1	1	2	2	2	2	5
0°	1	1	1	1	1	1	2	2	2	2	5
-2.5°	1	1	1	1	1	1	2	2	2	2	5
-5°	1	1	1	1	1	1	2	2	2	2	5
-7.5°	1	1	1	1	1	1	2	2	2	2	4
-10°	1	1	1	1	1	1	2	2	2	2	4
-12.5°	1	1	1	1	1	1	2	2	2	2	3
-15°	1	1	1	1	1	1	1	2	2	2	2
-17.5°	1	1	1	1	1	1	1	2	2	2	2
-20°	1	1	1	1	1	1	1	2	2	2	2



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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	1	1	1	1	2	2	2
-25°	1	1	1	1	1	1	1	1	2	2	2
-27.5°	1	1	1	1	1	1	1	1	1	2	2
-30°	0	1	1	1	1	1	1	1	1	2	2
-32.5°	0	1	1	1	1	1	1	1	1	1	2
-35°	0	1	1	1	1	1	1	1	1	1	1
-37.5°	0	0	1	1	1	1	1	1	1	1	1
-40°	0	0	1	1	1	1	1	1	1	1	1
-42.5°	0	0	0	1	1	1	1	1	1	1	1
-45°	0	0	0	1	1	1	1	1	1	1	1
-47.5°	0	0	0	0	1	1	1	1	1	1	1
-50°	0	0	0	0	0	1	1	1	1	1	1
-52.5°	0	0	0	0	0	0	1	1	1	1	1
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	0	1	1
-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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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	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	1	1	1	1
62.5°	0	0	0	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°	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	2	2
45°	1	1	1	1	1	1	2	2	2	2	2
42.5°	1	1	1	1	2	2	2	2	2	2	2
40°	1	1	2	2	2	2	2	2	2	2	2
37.5°	1	2	2	2	2	2	2	2	2	3	4
35°	2	2	2	2	2	2	2	4	5	9	13
32.5°	2	2	2	2	2	3	5	11	17	25	34
30°	2	2	2	2	4	9	17	28	42	55	70
27.5°	2	2	2	4	11	20	38	56	78	98	121
25°	2	2	4	11	23	43	67	94	127	165	201
22.5°	2	3	9	20	43	71	104	149	200	251	297
20°	2	5	17	38	67	104	157	220	284	347	406
17.5°	4	11	28	56	94	149	220	295	374	454	531
15°	5	17	42	78	127	200	284	374	471	572	665
12.5°	9	25	55	98	165	251	347	454	572	686	776
10°	13	34	70	121	201	297	406	531	665	776	853
7.5°	16	41	82	143	232	337	458	600	736	837	905
5°	18	46	91	160	256	368	500	652	784	875	936
2.5°	19	49	96	171	271	387	527	682	811	897	953
0°	20	51	98	175	276	394	536	692	821	904	958
-2.5°	19	49	96	171	271	387	527	682	811	897	953
-5°	18	46	91	160	256	368	500	652	784	875	936
-7.5°	16	41	82	143	232	337	458	600	736	837	905
-10°	13	34	70	121	201	297	406	531	665	776	853
-12.5°	9	25	55	98	165	251	347	454	572	686	776
-15°	5	17	42	78	127	200	284	374	471	572	665
-17.5°	4	11	28	56	94	149	220	295	374	454	531
-20°	2	5	17	38	67	104	157	220	284	347	406



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2	3	9	20	43	71	104	149	200	251	297
-25°	2	2	4	11	23	43	67	94	127	165	201
-27.5°	2	2	2	4	11	20	38	56	78	98	121
-30°	2	2	2	2	4	9	17	28	42	55	70
-32.5°	2	2	2	2	2	3	5	11	17	25	34
-35°	2	2	2	2	2	2	2	4	5	9	13
-37.5°	1	2	2	2	2	2	2	2	2	3	4
-40°	1	1	2	2	2	2	2	2	2	2	2
-42.5°	1	1	1	1	2	2	2	2	2	2	2
-45°	1	1	1	1	1	1	2	2	2	2	2
-47.5°	1	1	1	1	1	1	1	1	1	2	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	0	0	0	1	1	1	1	1	1	1	1
-65°	0	0	0	0	0	0	0	1	1	1	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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	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	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°	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°	2	2	2	2	2	2	2	2	2	1	1
45°	2	2	2	2	2	2	2	2	2	2	2
42.5°	2	2	2	2	2	2	2	2	2	2	2
40°	2	2	2	2	2	2	2	2	2	2	2
37.5°	4	5	5	5	5	5	4	4	3	2	2
35°	16	18	19	20	19	18	16	13	9	5	4
32.5°	41	46	49	51	49	46	41	34	25	17	11
30°	82	91	96	98	96	91	82	70	55	42	28
27.5°	143	160	171	175	171	160	143	121	98	78	56
25°	232	256	271	276	271	256	232	201	165	127	94
22.5°	337	368	387	394	387	368	337	297	251	200	149
20°	458	500	527	536	527	500	458	406	347	284	220
17.5°	600	652	682	692	682	652	600	531	454	374	295
15°	736	784	811	821	811	784	736	665	572	471	374
12.5°	837	875	897	904	897	875	837	776	686	572	454
10°	905	936	953	958	953	936	905	853	776	665	531
7.5°	947	975	992	998	992	975	947	905	837	736	600
5°	975	1004	1016	1020	1016	1004	975	936	875	784	652
2.5°	992	1016	1028	1030	1028	1016	992	953	897	811	682
0°	998	1020	1030	1039	1030	1020	998	958	904	821	692
-2.5°	992	1016	1028	1030	1028	1016	992	953	897	811	682
-5°	975	1004	1016	1020	1016	1004	975	936	875	784	652
-7.5°	947	975	992	998	992	975	947	905	837	736	600
-10°	905	936	953	958	953	936	905	853	776	665	531
-12.5°	837	875	897	904	897	875	837	776	686	572	454
-15°	736	784	811	821	811	784	736	665	572	471	374
-17.5°	600	652	682	692	682	652	600	531	454	374	295
-20°	458	500	527	536	527	500	458	406	347	284	220



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	337	368	387	394	387	368	337	297	251	200	149
-25°	232	256	271	276	271	256	232	201	165	127	94
-27.5°	143	160	171	175	171	160	143	121	98	78	56
-30°	82	91	96	98	96	91	82	70	55	42	28
-32.5°	41	46	49	51	49	46	41	34	25	17	11
-35°	16	18	19	20	19	18	16	13	9	5	4
-37.5°	4	5	5	5	5	5	4	4	3	2	2
-40°	2	2	2	2	2	2	2	2	2	2	2
-42.5°	2	2	2	2	2	2	2	2	2	2	2
-45°	2	2	2	2	2	2	2	2	2	2	2
-47.5°	2	2	2	2	2	2	2	2	2	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°	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	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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	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°	1	1	1	1	0	0	0	0	0	0	0
60°	1	1	1	1	1	1	1	0	0	0	0
57.5°	1	1	1	1	1	1	1	1	1	0	0
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°	2	1	1	1	1	1	1	1	1	1	1
42.5°	2	2	2	1	1	1	1	1	1	1	1
40°	2	2	2	2	2	1	1	1	1	1	1
37.5°	2	2	2	2	2	2	1	1	1	1	1
35°	2	2	2	2	2	2	2	1	1	1	1
32.5°	5	3	2	2	2	2	2	2	1	1	1
30°	17	9	4	2	2	2	2	2	2	1	1
27.5°	38	20	11	4	2	2	2	2	2	1	1
25°	67	43	23	11	4	2	2	2	2	2	1
22.5°	104	71	43	20	9	3	2	2	2	2	1
20°	157	104	67	38	17	5	2	2	2	2	2
17.5°	220	149	94	56	28	11	4	2	2	2	2
15°	284	200	127	78	42	17	5	2	2	2	2
12.5°	347	251	165	98	55	25	9	3	2	2	2
10°	406	297	201	121	70	34	13	4	2	2	2
7.5°	458	337	232	143	82	41	16	4	2	2	2
5°	500	368	256	160	91	46	18	5	2	2	2
2.5°	527	387	271	171	96	49	19	5	2	2	2
0°	536	394	276	175	98	51	20	5	2	2	2
-2.5°	527	387	271	171	96	49	19	5	2	2	2
-5°	500	368	256	160	91	46	18	5	2	2	2
-7.5°	458	337	232	143	82	41	16	4	2	2	2
-10°	406	297	201	121	70	34	13	4	2	2	2
-12.5°	347	251	165	98	55	25	9	3	2	2	2
-15°	284	200	127	78	42	17	5	2	2	2	2
-17.5°	220	149	94	56	28	11	4	2	2	2	2
-20°	157	104	67	38	17	5	2	2	2	2	2



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	104	71	43	20	9	3	2	2	2	2	1
-25°	67	43	23	11	4	2	2	2	2	2	1
-27.5°	38	20	11	4	2	2	2	2	2	1	1
-30°	17	9	4	2	2	2	2	2	2	1	1
-32.5°	5	3	2	2	2	2	2	2	1	1	1
-35°	2	2	2	2	2	2	2	1	1	1	1
-37.5°	2	2	2	2	2	2	1	1	1	1	1
-40°	2	2	2	2	2	1	1	1	1	1	1
-42.5°	2	2	2	1	1	1	1	1	1	1	1
-45°	2	1	1	1	1	1	1	1	1	1	1
-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	0	0
-60°	1	1	1	1	1	1	1	0	0	0	0
-62.5°	1	1	1	1	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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	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°	1	0	0	0	0	0	0	0	0	0	0
50°	1	1	0	0	0	0	0	0	0	0	0
47.5°	1	1	1	0	0	0	0	0	0	0	0
45°	1	1	1	1	0	0	0	0	0	0	0
42.5°	1	1	1	1	0	0	0	0	0	0	0
40°	1	1	1	1	1	0	0	0	0	0	0
37.5°	1	1	1	1	1	0	0	0	0	0	0
35°	1	1	1	1	1	1	0	0	0	0	0
32.5°	1	1	1	1	1	1	0	0	0	0	0
30°	1	1	1	1	1	1	0	0	0	0	0
27.5°	1	1	1	1	1	1	1	0	0	0	0
25°	1	1	1	1	1	1	1	0	0	0	0
22.5°	1	1	1	1	1	1	1	0	0	0	0
20°	1	1	1	1	1	1	1	0	0	0	0
17.5°	1	1	1	1	1	1	1	1	0	0	0
15°	1	1	1	1	1	1	1	1	0	0	0
12.5°	2	1	1	1	1	1	1	1	0	0	0
10°	2	1	1	1	1	1	1	1	0	0	0
7.5°	2	1	1	1	1	1	1	1	0	0	0
5°	2	1	1	1	1	1	1	1	0	0	0
2.5°	2	1	1	1	1	1	1	1	0	0	0
0°	2	1	1	1	1	1	1	1	0	0	0
-2.5°	2	1	1	1	1	1	1	1	0	0	0
-5°	2	1	1	1	1	1	1	1	0	0	0
-7.5°	2	1	1	1	1	1	1	1	0	0	0
-10°	2	1	1	1	1	1	1	1	0	0	0
-12.5°	2	1	1	1	1	1	1	1	0	0	0
-15°	1	1	1	1	1	1	1	1	0	0	0
-17.5°	1	1	1	1	1	1	1	1	0	0	0
-20°	1	1	1	1	1	1	1	0	0	0	0



REPORT NUMBER: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	1	1	1	1	1	1	1	0	0	0	0
-25°	1	1	1	1	1	1	1	0	0	0	0
-27.5°	1	1	1	1	1	1	1	0	0	0	0
-30°	1	1	1	1	1	1	0	0	0	0	0
-32.5°	1	1	1	1	1	1	0	0	0	0	0
-35°	1	1	1	1	1	1	0	0	0	0	0
-37.5°	1	1	1	1	1	0	0	0	0	0	0
-40°	1	1	1	1	1	0	0	0	0	0	0
-42.5°	1	1	1	1	0	0	0	0	0	0	0
-45°	1	1	1	1	0	0	0	0	0	0	0
-47.5°	1	1	1	0	0	0	0	0	0	0	0
-50°	1	1	0	0	0	0	0	0	0	0	0
-52.5°	1	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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-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°	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: P221138 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCW-F-WT-LC1-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)