

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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221144 (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-LEDCR-W-BK-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

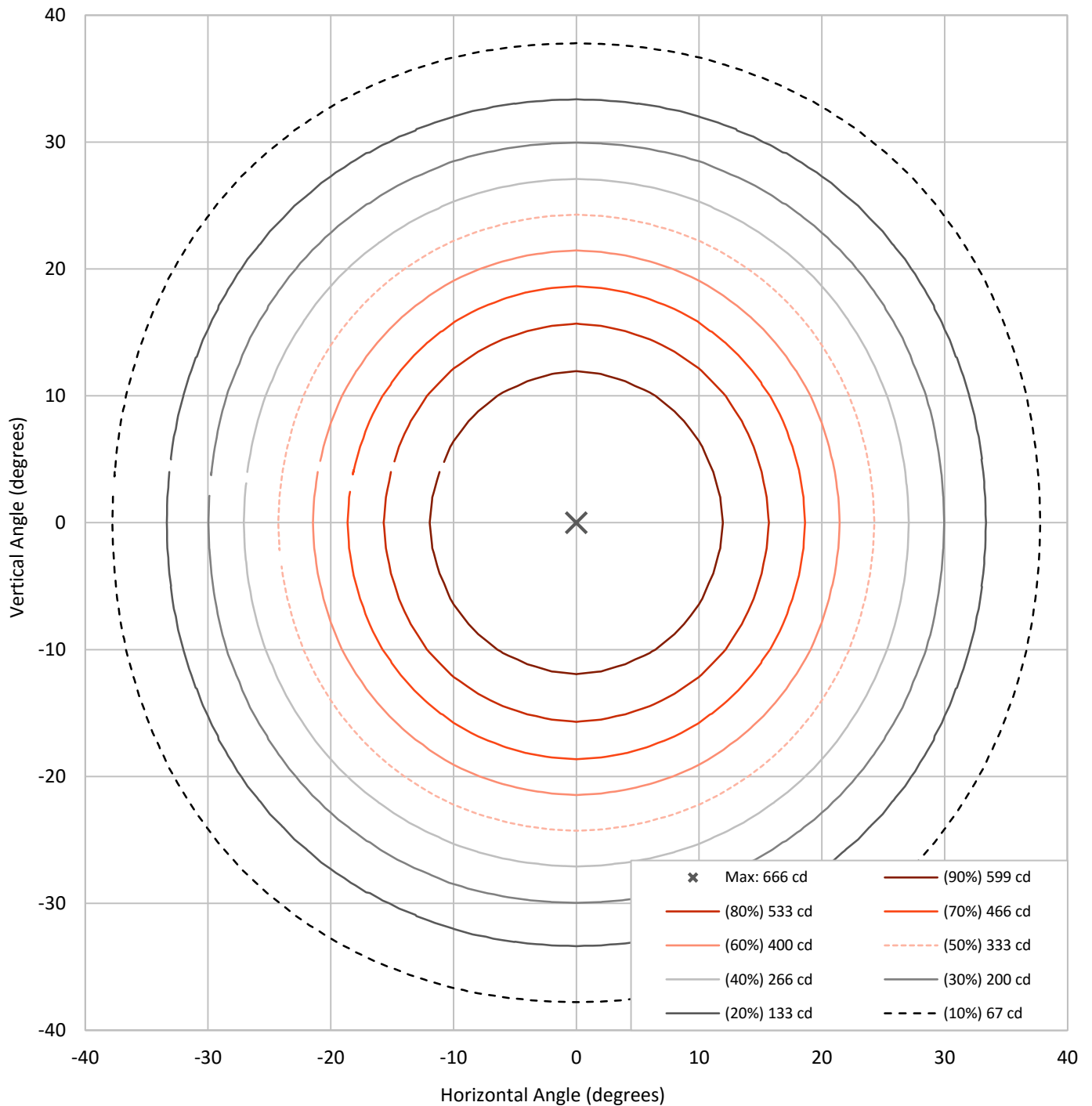
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	433.5 lumens	Max Intensity:	666 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	32.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	48.6°H x 48.6°V	Field Angle (10%):	75.5°H x 75.5°V
Beam Lumens:	279.7 lumens	Field Lumens:	413.5 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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





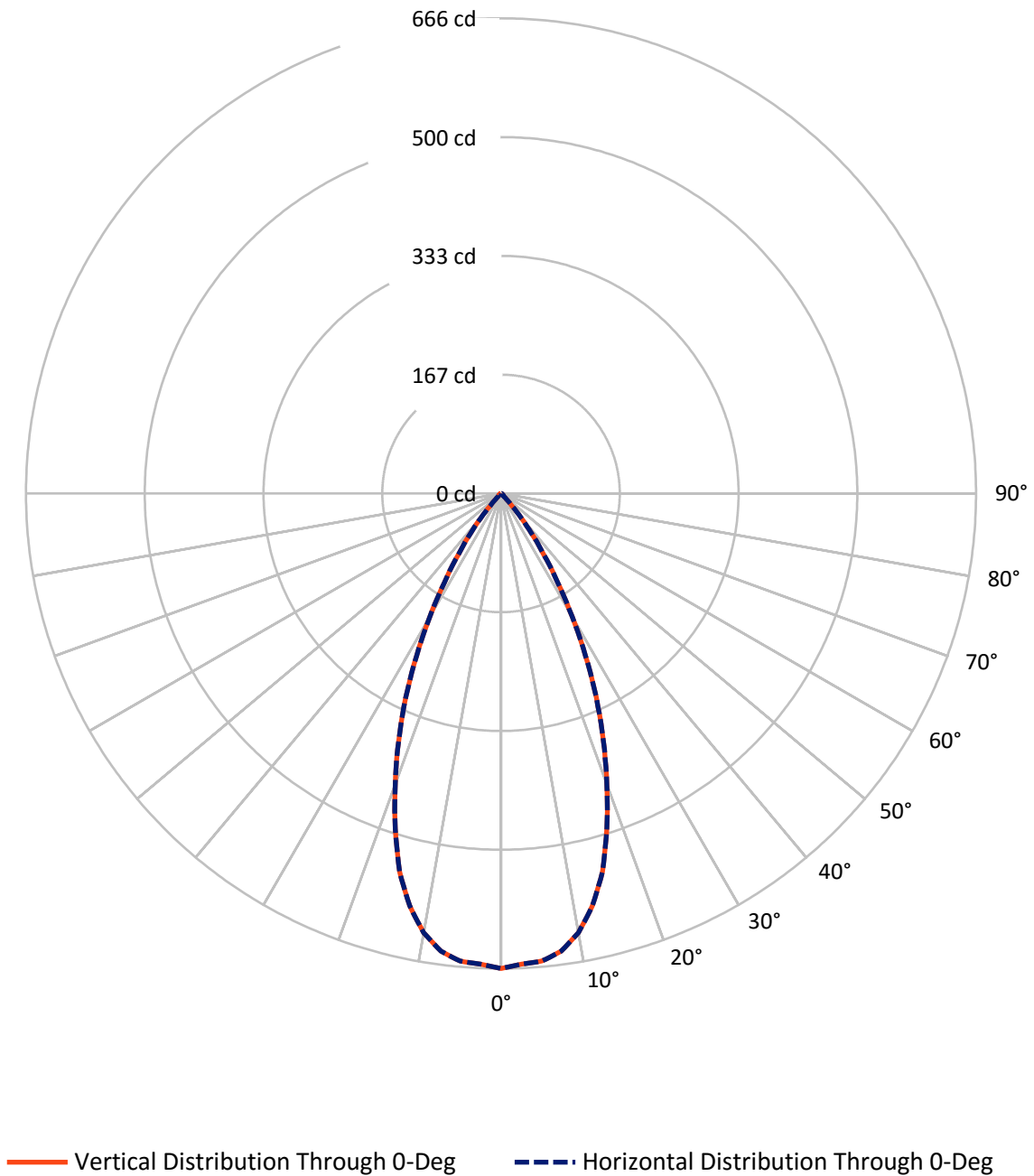
REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-W-BK-LC1-UNV

Lumen Table

90																			
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				
70																			
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					
40	0.0	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				
30		0.0	0.0	0.1	0.1	0.7	2.1	3.1	3.1	2.1	0.7	0.1	0.1	0.0		0.0			
20	0.0	0.0	0.0	0.1	0.6	3.1	6.6	9.1	9.1	6.6	3.1	0.6	0.1	0.0	0.0	0.0			
10		0.0	0.0	0.1	1.8	6.2	11.9	15.7	15.7	11.9	6.2	1.8	0.1	0.0	0.0				
0	0.0	0.0	0.0	0.2	2.6	8.3	15.3	19.3	19.3	15.3	8.3	2.6	0.2	0.0	0.0	0.0			
-10		0.0	0.0	0.2	2.6	8.3	15.3	19.3	19.3	15.3	8.3	2.6	0.2	0.0	0.0				
-20	0.0	0.0	0.0	0.1	1.8	6.2	11.9	15.7	15.7	11.9	6.2	1.8	0.1	0.0	0.0	0.0			
-30		0.0	0.0	0.1	0.6	3.1	6.6	9.1	9.1	6.6	3.1	0.6	0.1	0.0	0.0				
-40	0.0	0.0	0.0	0.1	0.1	0.7	2.1	3.1	3.1	2.1	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				
-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	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				
-80																			
-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				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

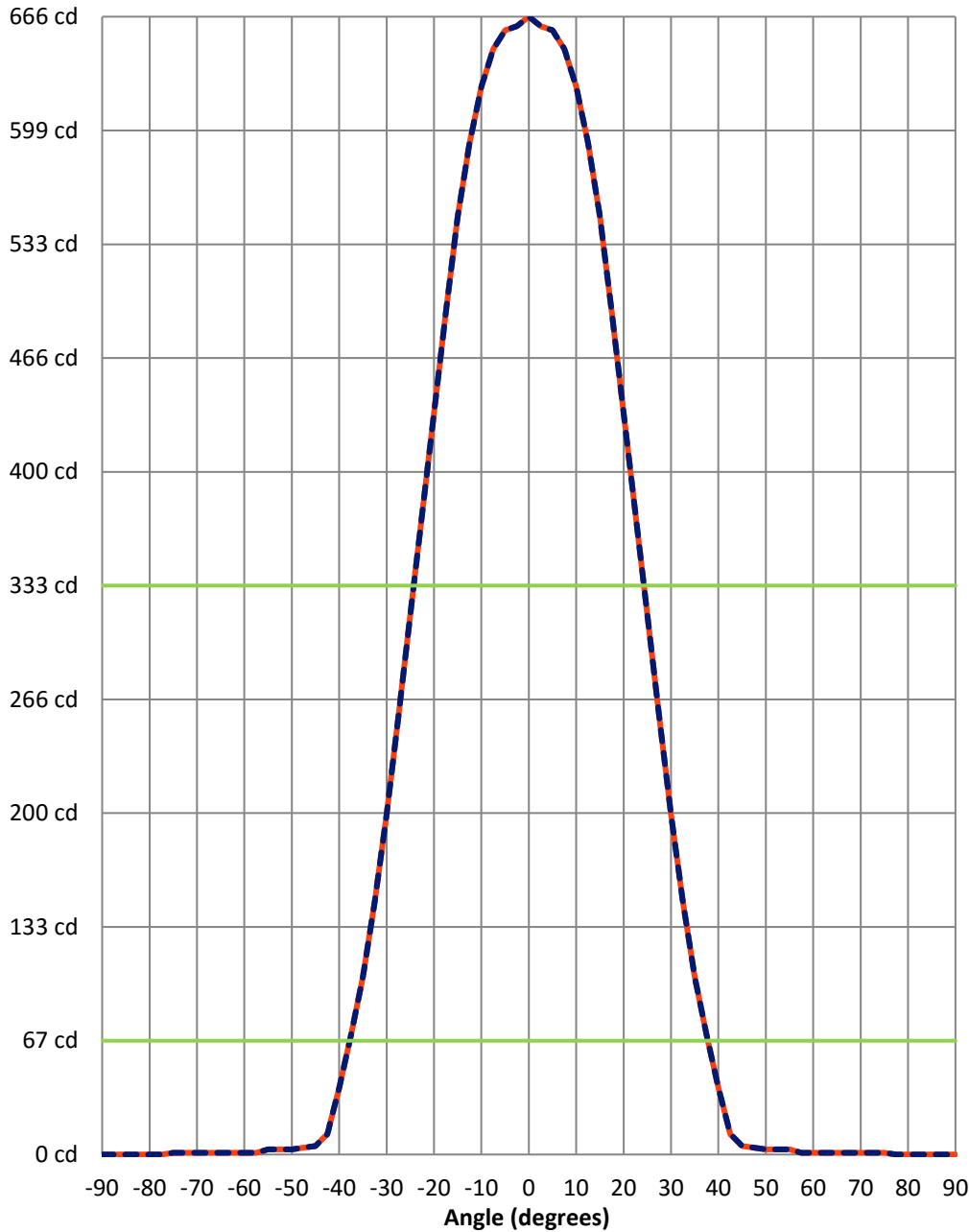
REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-W-BK-LC1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-W-BK-LC1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 48.6°
 V Angle: 48.6°
 Lumens: 279.7
 Efficiency: 64.5%

Field:
 H Angle: 75.5°
 V Angle: 75.5°
 Lumens: 413.5
 Efficiency: 95.4%

Spill:
 Lumens: 20
 Efficiency: 4.6%

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



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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	20
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	11	33	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	70
-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	11	33	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	20



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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	20	30	39	48	56
35°	4	4	6	9	17	30	43	56	68	78	87
32.5°	4	6	10	22	37	54	69	84	98	112	124
30°	6	10	24	41	60	79	97	116	135	153	169
27.5°	9	22	41	62	84	105	130	154	178	199	220
25°	17	37	60	84	108	137	166	195	225	250	273
22.5°	30	54	79	105	137	170	205	240	272	302	327
20°	43	69	97	130	166	205	245	284	320	352	381
17.5°	56	84	116	154	195	240	284	326	366	401	432
15°	68	98	135	178	225	272	320	366	408	447	482
12.5°	78	112	153	199	250	302	352	401	447	490	528
10°	87	124	169	220	273	327	381	432	482	528	566
7.5°	95	135	182	236	291	347	403	457	511	558	592
5°	100	142	191	247	305	363	420	477	532	577	610
2.5°	103	146	197	254	313	372	430	489	545	589	621
0°	104	148	199	257	316	375	434	493	549	592	625
-2.5°	103	146	197	254	313	372	430	489	545	589	621
-5°	100	142	191	247	305	363	420	477	532	577	610
-7.5°	95	135	182	236	291	347	403	457	511	558	592
-10°	87	124	169	220	273	327	381	432	482	528	566
-12.5°	78	112	153	199	250	302	352	401	447	490	528
-15°	68	98	135	178	225	272	320	366	408	447	482
-17.5°	56	84	116	154	195	240	284	326	366	401	432
-20°	43	69	97	130	166	205	245	284	320	352	381



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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	54	79	105	137	170	205	240	272	302	327
-25°	17	37	60	84	108	137	166	195	225	250	273
-27.5°	9	22	41	62	84	105	130	154	178	199	220
-30°	6	10	24	41	60	79	97	116	135	153	169
-32.5°	4	6	10	22	37	54	69	84	98	112	124
-35°	4	4	6	9	17	30	43	56	68	78	87
-37.5°	3	4	4	5	8	11	20	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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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°	11	11	12	12	12	11	11	9	8	6	5
40°	33	36	38	39	38	36	33	28	22	14	10
37.5°	62	66	69	70	69	66	62	56	48	39	30
35°	95	100	103	104	103	100	95	87	78	68	56
32.5°	135	142	146	148	146	142	135	124	112	98	84
30°	182	191	197	199	197	191	182	169	153	135	116
27.5°	236	247	254	257	254	247	236	220	199	178	154
25°	291	305	313	316	313	305	291	273	250	225	195
22.5°	347	363	372	375	372	363	347	327	302	272	240
20°	403	420	430	434	430	420	403	381	352	320	284
17.5°	457	477	489	493	489	477	457	432	401	366	326
15°	511	532	545	549	545	532	511	482	447	408	366
12.5°	558	577	589	592	589	577	558	528	490	447	401
10°	592	610	621	625	621	610	592	566	528	482	432
7.5°	617	635	644	647	644	635	617	592	558	511	457
5°	635	650	656	658	656	650	635	610	577	532	477
2.5°	644	656	660	661	660	656	644	621	589	545	489
0°	647	658	661	666	661	658	647	625	592	549	493
-2.5°	644	656	660	661	660	656	644	621	589	545	489
-5°	635	650	656	658	656	650	635	610	577	532	477
-7.5°	617	635	644	647	644	635	617	592	558	511	457
-10°	592	610	621	625	621	610	592	566	528	482	432
-12.5°	558	577	589	592	589	577	558	528	490	447	401
-15°	511	532	545	549	545	532	511	482	447	408	366
-17.5°	457	477	489	493	489	477	457	432	401	366	326
-20°	403	420	430	434	430	420	403	381	352	320	284



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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°	347	363	372	375	372	363	347	327	302	272	240
-25°	291	305	313	316	313	305	291	273	250	225	195
-27.5°	236	247	254	257	254	247	236	220	199	178	154
-30°	182	191	197	199	197	191	182	169	153	135	116
-32.5°	135	142	146	148	146	142	135	124	112	98	84
-35°	95	100	103	104	103	100	95	87	78	68	56
-37.5°	62	66	69	70	69	66	62	56	48	39	30
-40°	33	36	38	39	38	36	33	28	22	14	10
-42.5°	11	11	12	12	12	11	11	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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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°	20	11	8	5	4	4	3	3	3	3	2
35°	43	30	17	9	6	4	4	3	3	3	3
32.5°	69	54	37	22	10	6	4	4	3	3	3
30°	97	79	60	41	24	10	6	4	4	3	3
27.5°	130	105	84	62	41	22	9	5	4	3	3
25°	166	137	108	84	60	37	17	8	5	4	3
22.5°	205	170	137	105	79	54	30	11	5	4	3
20°	245	205	166	130	97	69	43	20	8	5	4
17.5°	284	240	195	154	116	84	56	30	10	5	4
15°	320	272	225	178	135	98	68	39	14	6	4
12.5°	352	302	250	199	153	112	78	48	22	8	4
10°	381	327	273	220	169	124	87	56	28	9	5
7.5°	403	347	291	236	182	135	95	62	33	11	5
5°	420	363	305	247	191	142	100	66	36	11	5
2.5°	430	372	313	254	197	146	103	69	38	12	5
0°	434	375	316	257	199	148	104	70	39	12	5
-2.5°	430	372	313	254	197	146	103	69	38	12	5
-5°	420	363	305	247	191	142	100	66	36	11	5
-7.5°	403	347	291	236	182	135	95	62	33	11	5
-10°	381	327	273	220	169	124	87	56	28	9	5
-12.5°	352	302	250	199	153	112	78	48	22	8	4
-15°	320	272	225	178	135	98	68	39	14	6	4
-17.5°	284	240	195	154	116	84	56	30	10	5	4
-20°	245	205	166	130	97	69	43	20	8	5	4



REPORT NUMBER: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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°	205	170	137	105	79	54	30	11	5	4	3
-25°	166	137	108	84	60	37	17	8	5	4	3
-27.5°	130	105	84	62	41	22	9	5	4	3	3
-30°	97	79	60	41	24	10	6	4	4	3	3
-32.5°	69	54	37	22	10	6	4	4	3	3	3
-35°	43	30	17	9	6	4	4	3	3	3	3
-37.5°	20	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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-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: P221144 (CONVERTED FROM TYPE C PHOTOMETRY)

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