

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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221142 (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-LEDCR-F-BK-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

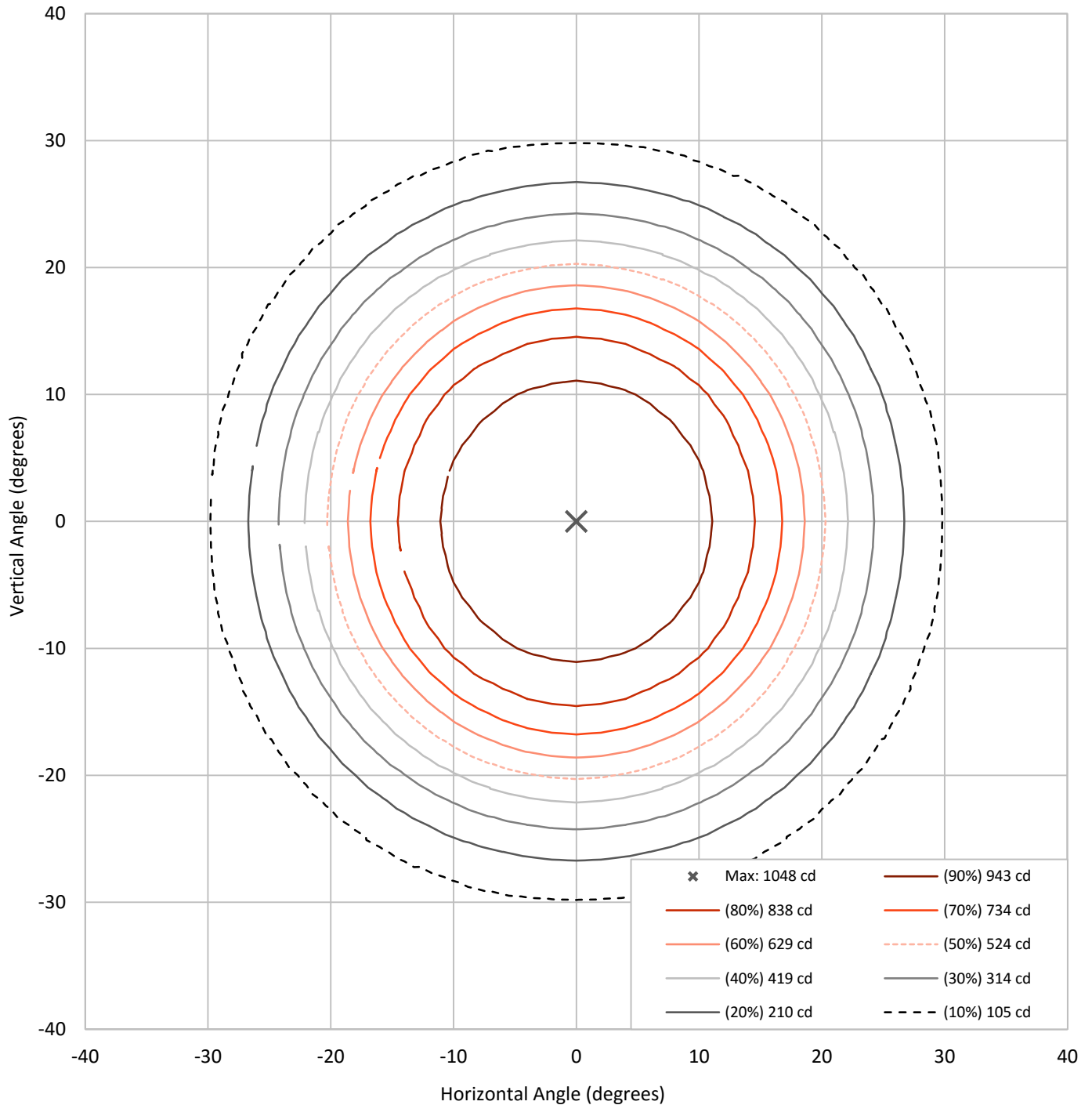
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	466.2 lumens	Max Intensity:	1048 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	34.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.6°H x 40.6°V	Field Angle (10%):	59.6°H x 59.6°V
Beam Lumens:	320.8 lumens	Field Lumens:	444.2 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		



REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





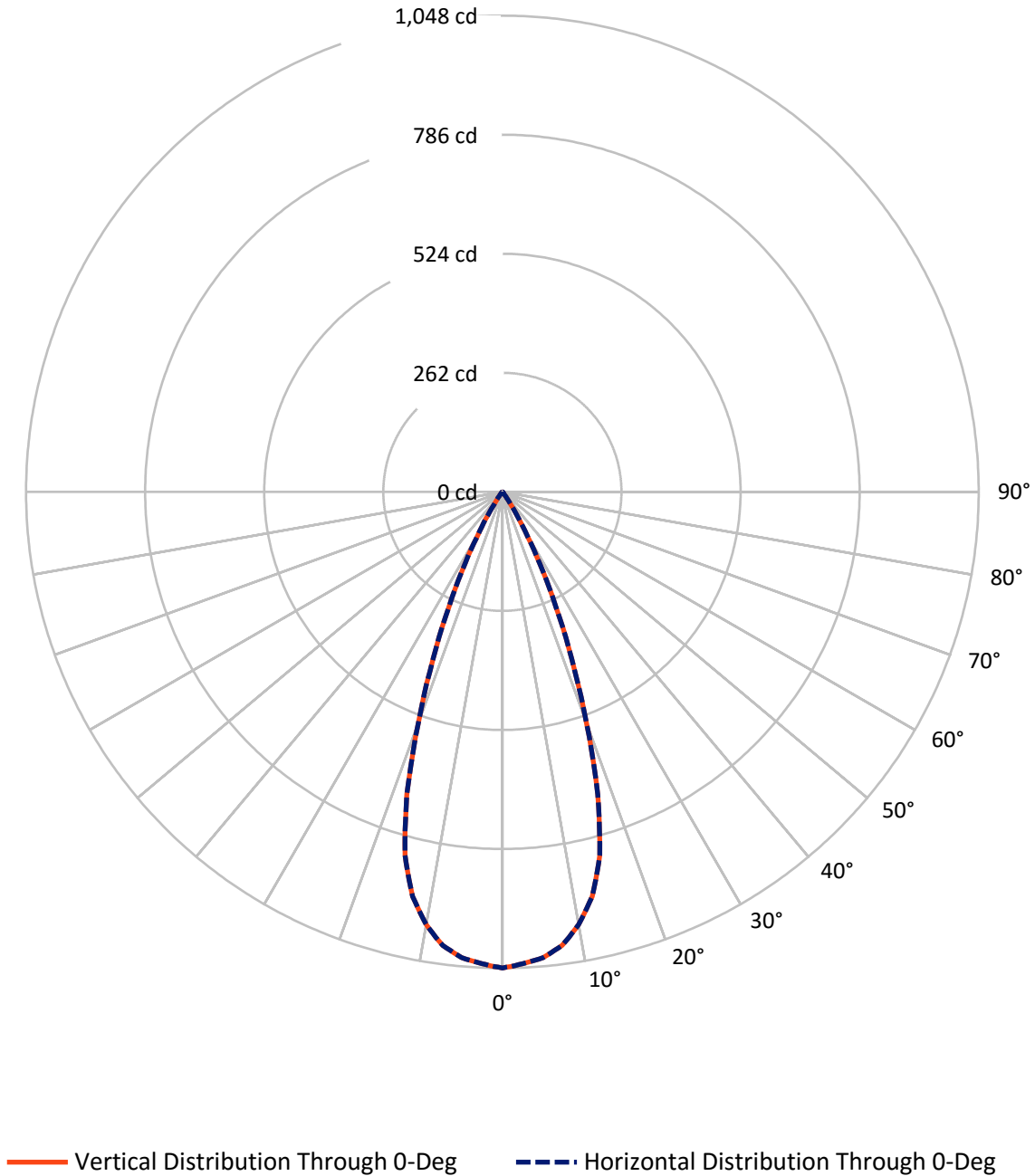
REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-BK-LC1-UNV

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0				
30		0.0	0.0	0.0	0.0	0.1	0.4	0.9	0.9	0.4	0.1	0.0	0.0	0.0					
20	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				
10		0.0	0.0	0.0	0.3	4.0	14.0	22.7	22.7	14.0	4.0	0.3	0.0	0.0					
0	0.0	0.0	0.0	0.0	0.7	7.4	22.1	30.1	30.1	22.1	7.4	0.7	0.0	0.0	0.0				
-10		0.0	0.0	0.0	0.7	7.4	22.1	30.1	30.1	22.1	7.4	0.7	0.0	0.0					
-20	0.0	0.0	0.0	0.0	0.3	4.0	14.0	22.7	22.7	14.0	4.0	0.3	0.0	0.0	0.0				
-30		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					
-40	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.9	0.9	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	0.1	0.1	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	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					
-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																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-BK-LC1-UNV

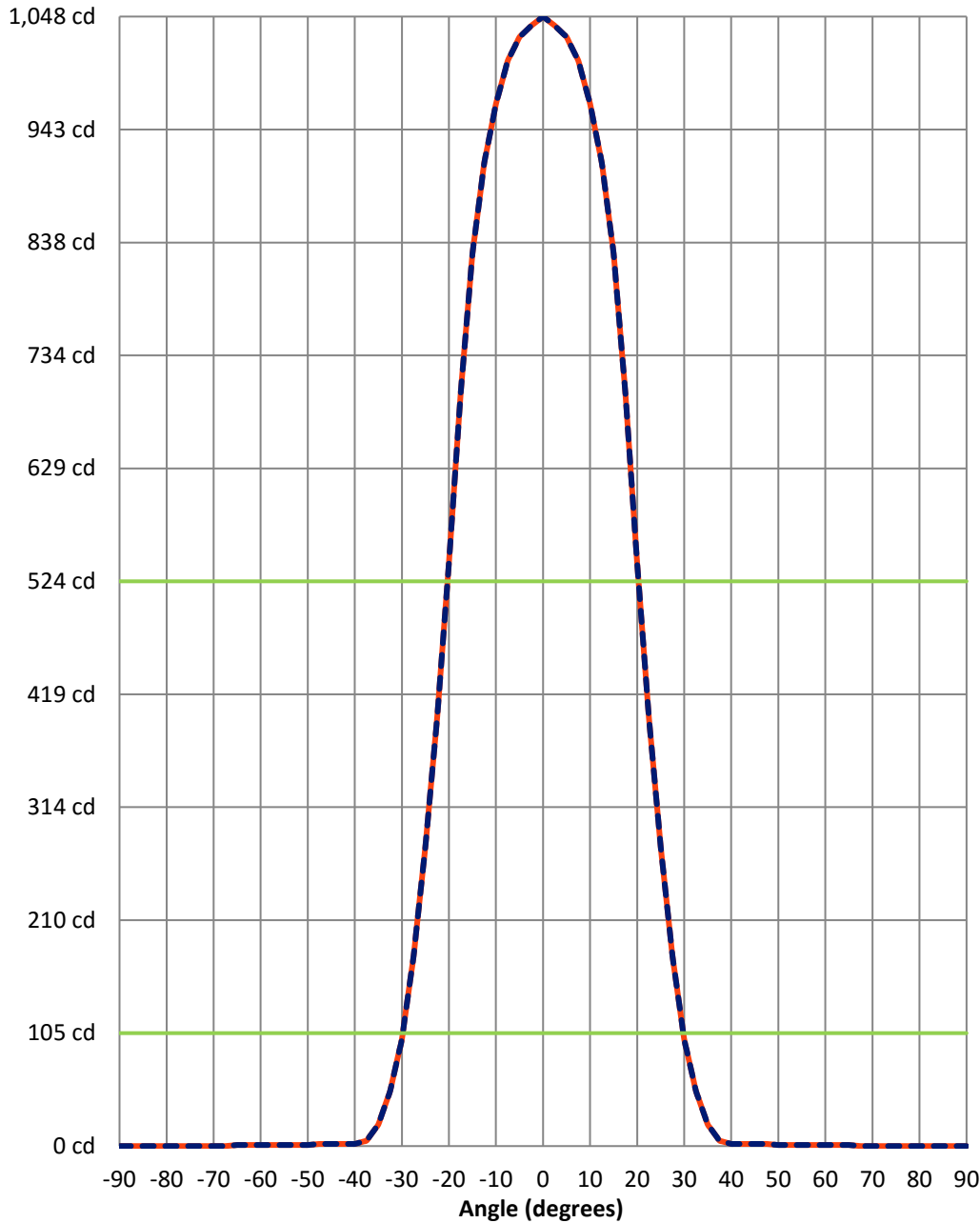
Luminous Intensity Polar Plot



REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Luminous Intensity Plot



Beam:
H Angle: 40.6°
V Angle: 40.6°
Lumens: 320.8
Efficiency: 68.8%

Field:
H Angle: 59.6°
V Angle: 59.6°
Lumens: 444.2
Efficiency: 95.3%

Spill:
Lumens: 22
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-LEDCR-F-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	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED CR-F-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	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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	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	71
27.5°	2	2	2	4	11	20	38	56	79	99	122
25°	2	2	4	11	23	43	68	95	128	167	203
22.5°	2	3	9	20	43	72	105	151	202	253	300
20°	2	5	17	38	68	105	158	222	286	350	409
17.5°	4	11	28	56	95	151	222	298	377	458	536
15°	5	17	42	79	128	202	286	377	475	577	671
12.5°	9	25	55	99	167	253	350	458	577	692	783
10°	13	34	71	122	203	300	409	536	671	783	861
7.5°	16	42	83	144	234	340	463	605	742	845	913
5°	18	47	92	161	258	371	505	658	791	883	944
2.5°	20	50	97	173	273	391	532	688	818	905	961
0°	20	51	99	177	278	398	541	699	828	912	967
-2.5°	20	50	97	173	273	391	532	688	818	905	961
-5°	18	47	92	161	258	371	505	658	791	883	944
-7.5°	16	42	83	144	234	340	463	605	742	845	913
-10°	13	34	71	122	203	300	409	536	671	783	861
-12.5°	9	25	55	99	167	253	350	458	577	692	783
-15°	5	17	42	79	128	202	286	377	475	577	671
-17.5°	4	11	28	56	95	151	222	298	377	458	536
-20°	2	5	17	38	68	105	158	222	286	350	409



REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-BK-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	72	105	151	202	253	300
-25°	2	2	4	11	23	43	68	95	128	167	203
-27.5°	2	2	2	4	11	20	38	56	79	99	122
-30°	2	2	2	2	4	9	17	28	42	55	71
-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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	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	20	20	20	18	16	13	9	5	4
32.5°	42	47	50	51	50	47	42	34	25	17	11
30°	83	92	97	99	97	92	83	71	55	42	28
27.5°	144	161	173	177	173	161	144	122	99	79	56
25°	234	258	273	278	273	258	234	203	167	128	95
22.5°	340	371	391	398	391	371	340	300	253	202	151
20°	463	505	532	541	532	505	463	409	350	286	222
17.5°	605	658	688	699	688	658	605	536	458	377	298
15°	742	791	818	828	818	791	742	671	577	475	377
12.5°	845	883	905	912	905	883	845	783	692	577	458
10°	913	944	961	967	961	944	913	861	783	671	536
7.5°	956	984	1001	1007	1001	984	956	913	845	742	605
5°	984	1013	1025	1029	1025	1013	984	944	883	791	658
2.5°	1001	1025	1037	1040	1037	1025	1001	961	905	818	688
0°	1007	1029	1040	1048	1040	1029	1007	967	912	828	699
-2.5°	1001	1025	1037	1040	1037	1025	1001	961	905	818	688
-5°	984	1013	1025	1029	1025	1013	984	944	883	791	658
-7.5°	956	984	1001	1007	1001	984	956	913	845	742	605
-10°	913	944	961	967	961	944	913	861	783	671	536
-12.5°	845	883	905	912	905	883	845	783	692	577	458
-15°	742	791	818	828	818	791	742	671	577	475	377
-17.5°	605	658	688	699	688	658	605	536	458	377	298
-20°	463	505	532	541	532	505	463	409	350	286	222



REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	340	371	391	398	391	371	340	300	253	202	151
-25°	234	258	273	278	273	258	234	203	167	128	95
-27.5°	144	161	173	177	173	161	144	122	99	79	56
-30°	83	92	97	99	97	92	83	71	55	42	28
-32.5°	42	47	50	51	50	47	42	34	25	17	11
-35°	16	18	20	20	20	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	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°	68	43	23	11	4	2	2	2	2	2	1
22.5°	105	72	43	20	9	3	2	2	2	2	1
20°	158	105	68	38	17	5	2	2	2	2	2
17.5°	222	151	95	56	28	11	4	2	2	2	2
15°	286	202	128	79	42	17	5	2	2	2	2
12.5°	350	253	167	99	55	25	9	3	2	2	2
10°	409	300	203	122	71	34	13	4	2	2	2
7.5°	463	340	234	144	83	42	16	4	2	2	2
5°	505	371	258	161	92	47	18	5	2	2	2
2.5°	532	391	273	173	97	50	20	5	2	2	2
0°	541	398	278	177	99	51	20	5	2	2	2
-2.5°	532	391	273	173	97	50	20	5	2	2	2
-5°	505	371	258	161	92	47	18	5	2	2	2
-7.5°	463	340	234	144	83	42	16	4	2	2	2
-10°	409	300	203	122	71	34	13	4	2	2	2
-12.5°	350	253	167	99	55	25	9	3	2	2	2
-15°	286	202	128	79	42	17	5	2	2	2	2
-17.5°	222	151	95	56	28	11	4	2	2	2	2
-20°	158	105	68	38	17	5	2	2	2	2	2



REPORT NUMBER: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	105	72	43	20	9	3	2	2	2	2	1
-25°	68	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LEDCR-F-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°	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: P221142 (CONVERTED FROM TYPE C PHOTOMETRY)

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