

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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29547)
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]-[RW, RI]-LEDCW-W-BK-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

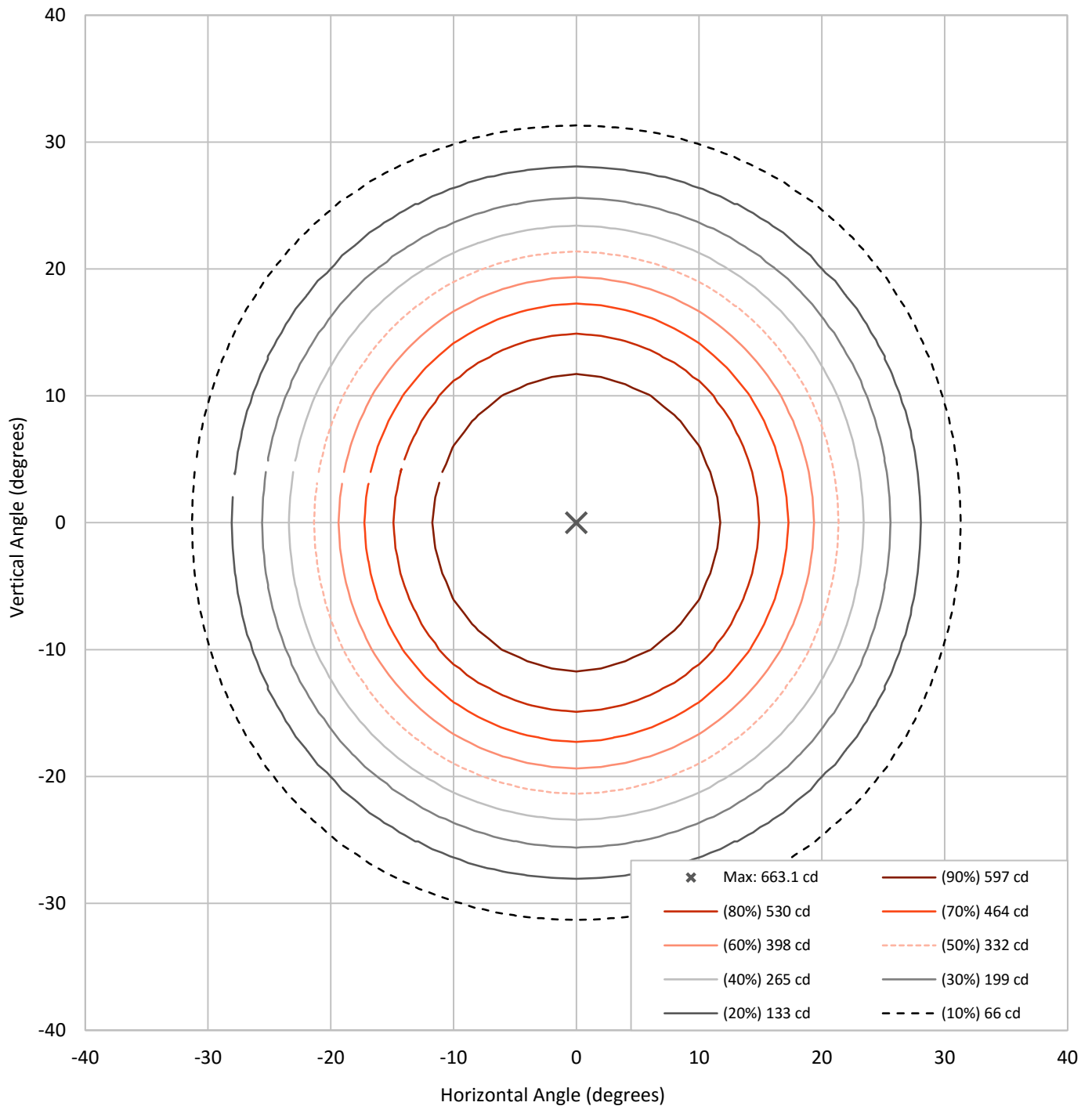
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	324.6 lumens	Max Intensity:	663.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	24.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	42.7°H x 42.7°V	Field Angle (10%):	62.6°H x 62.6°V
Beam Lumens:	223.4 lumens	Field Lumens:	307.3 lumens
Beam Efficiency:	68.8%	Field Efficiency:	94.7%
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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-BK-LC1-UNV

Iso-Candela Plot





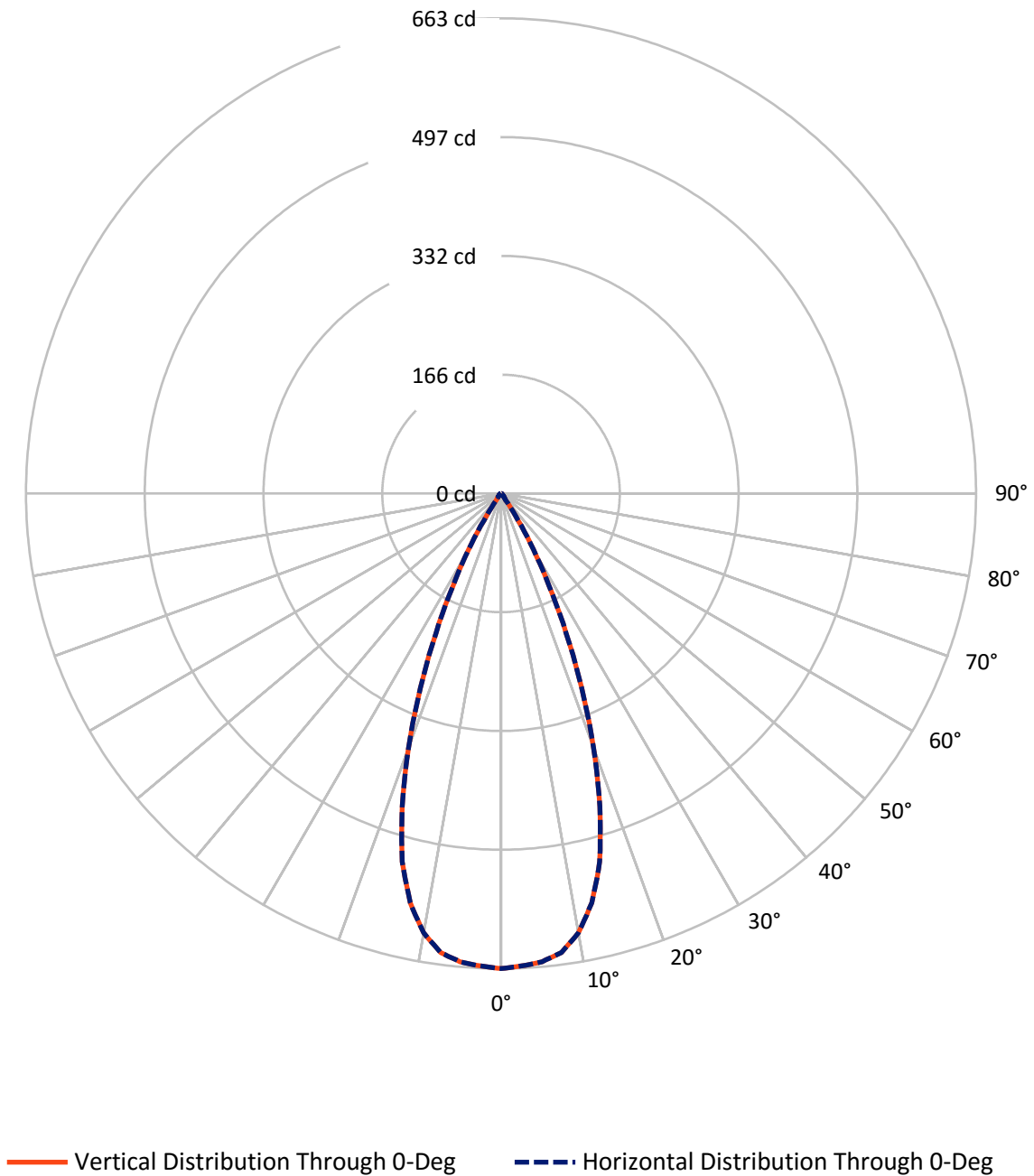
REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-BK-LC1-UNV

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	0.0
50	0.0															
40	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0															
20	0.0	0.0	0.1	0.1	0.8	3.5	6.2	6.2	3.5	0.8	0.1	0.1	0.0	0.0	0.0	0.0
10	0.0															
0	0.0	0.0	0.1	0.6	5.7	14.5	19.3	19.3	14.5	5.7	0.6	0.1	0.0	0.0	0.0	0.0
-10	0.0															
-20	0.0	0.0	0.1	0.3	3.3	9.8	14.9	14.9	9.8	3.3	0.3	0.1	0.0	0.0	0.0	0.0
-30	0.0															
-40	0.0	0.0	0.0	0.1	0.2	0.4	0.8	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
-50	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	0.0
-70	0.0															
-80	0.0															
-90	0.0															

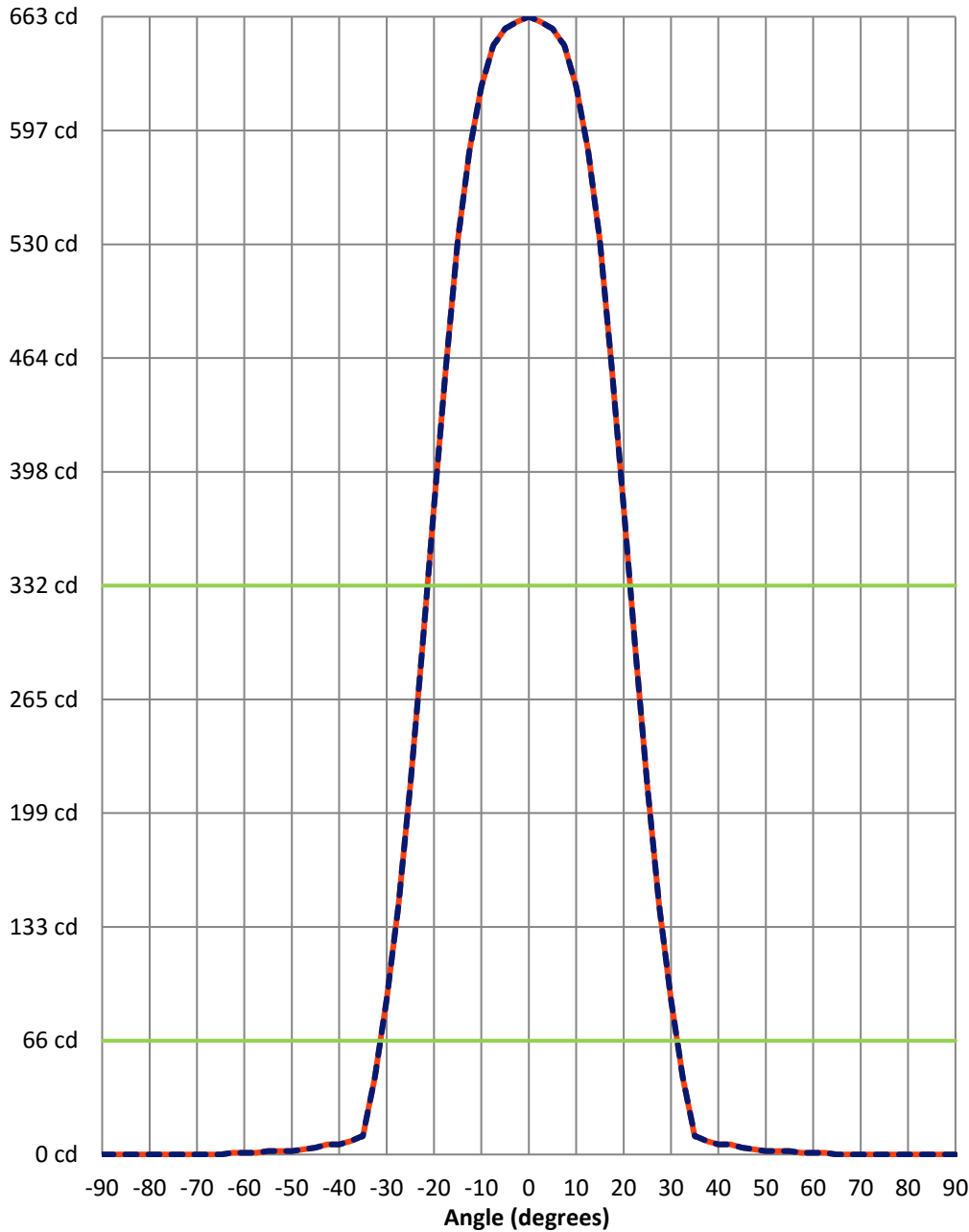
REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-BK-LC1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-BK-LC1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 42.7°
 V Angle: 42.7°
 Lumens: 223.4
 Efficiency: 68.8%

Field:
 H Angle: 62.6°
 V Angle: 62.6°
 Lumens: 307.3
 Efficiency: 94.7%

Spill:
 Lumens: 17.3
 Efficiency: 5.3%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	0
15°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1	1
50°	0	0	0	0	0	0	0	1	1	1	1
47.5°	0	0	0	0	0	0	1	1	1	1	1
45°	0	0	0	0	0	1	1	1	1	1	2
42.5°	0	0	0	0	1	1	1	1	1	2	2
40°	0	0	0	0	1	1	1	1	2	2	2
37.5°	0	0	0	1	1	1	1	2	2	2	2
35°	0	0	0	1	1	1	1	2	2	2	2
32.5°	0	0	1	1	1	1	2	2	2	2	3
30°	0	0	1	1	1	2	2	2	2	3	3
27.5°	0	1	1	1	1	2	2	2	2	3	4
25°	0	1	1	1	1	2	2	2	3	4	5
22.5°	0	1	1	1	2	2	2	2	3	4	6
20°	0	1	1	1	2	2	2	3	4	5	6
17.5°	0	1	1	1	2	2	2	3	4	5	6
15°	1	1	1	1	2	2	2	3	4	6	6
12.5°	1	1	1	2	2	2	3	3	5	6	7
10°	1	1	1	2	2	2	3	4	5	6	7
7.5°	1	1	1	2	2	2	3	4	5	6	7
5°	1	1	1	2	2	2	3	4	6	6	8
2.5°	1	1	1	2	2	2	3	4	6	6	8
0°	1	1	1	2	2	2	3	4	6	6	8
-2.5°	1	1	1	2	2	2	3	4	6	6	8
-5°	1	1	1	2	2	2	3	4	6	6	8
-7.5°	1	1	1	2	2	2	3	4	5	6	7
-10°	1	1	1	2	2	2	3	4	5	6	7
-12.5°	1	1	1	2	2	2	3	3	5	6	7
-15°	1	1	1	1	2	2	2	3	4	6	6
-17.5°	0	1	1	1	2	2	2	3	4	5	6
-20°	0	1	1	1	2	2	2	3	4	5	6



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	0	1	1	1	2	2	2	2	3	4	6
-25°	0	1	1	1	1	2	2	2	3	4	5
-27.5°	0	1	1	1	1	2	2	2	2	3	4
-30°	0	0	1	1	1	2	2	2	2	3	3
-32.5°	0	0	1	1	1	1	2	2	2	2	3
-35°	0	0	0	1	1	1	1	2	2	2	2
-37.5°	0	0	0	1	1	1	1	2	2	2	2
-40°	0	0	0	0	1	1	1	1	2	2	2
-42.5°	0	0	0	0	1	1	1	1	1	2	2
-45°	0	0	0	0	0	1	1	1	1	1	2
-47.5°	0	0	0	0	0	0	1	1	1	1	1
-50°	0	0	0	0	0	0	0	1	1	1	1
-52.5°	0	0	0	0	0	0	0	0	1	1	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	1	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	2	2
52.5°	1	1	1	1	1	2	2	2	2	2	2
50°	1	1	2	2	2	2	2	2	2	2	2
47.5°	1	2	2	2	2	2	2	2	2	3	3
45°	2	2	2	2	2	2	3	3	3	3	4
42.5°	2	2	2	2	3	3	4	4	4	5	5
40°	2	2	3	3	4	4	5	5	6	6	6
37.5°	2	3	3	4	5	6	6	6	6	7	7
35°	3	3	4	5	6	6	6	7	8	9	9
32.5°	3	4	5	6	6	7	8	9	10	17	27
30°	4	5	6	6	7	9	10	20	35	49	63
27.5°	5	6	6	7	9	11	31	50	71	90	107
25°	6	6	7	9	14	36	61	87	112	139	163
22.5°	6	7	9	11	36	65	95	128	162	198	230
20°	6	8	10	31	61	95	133	176	221	263	301
17.5°	7	9	20	50	87	128	176	229	281	331	375
15°	8	10	35	71	112	162	221	281	341	396	444
12.5°	9	17	49	90	139	198	263	331	396	455	504
10°	9	27	63	107	163	230	301	375	444	504	554
7.5°	10	34	75	123	184	257	334	411	481	543	586
5°	11	40	83	135	201	277	358	437	509	568	605
2.5°	11	43	88	143	212	290	373	453	526	581	618
0°	11	45	90	145	215	294	378	458	532	585	622
-2.5°	11	43	88	143	212	290	373	453	526	581	618
-5°	11	40	83	135	201	277	358	437	509	568	605
-7.5°	10	34	75	123	184	257	334	411	481	543	586
-10°	9	27	63	107	163	230	301	375	444	504	554
-12.5°	9	17	49	90	139	198	263	331	396	455	504
-15°	8	10	35	71	112	162	221	281	341	396	444
-17.5°	7	9	20	50	87	128	176	229	281	331	375
-20°	6	8	10	31	61	95	133	176	221	263	301



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	6	7	9	11	36	65	95	128	162	198	230
-25°	6	6	7	9	14	36	61	87	112	139	163
-27.5°	5	6	6	7	9	11	31	50	71	90	107
-30°	4	5	6	6	7	9	10	20	35	49	63
-32.5°	3	4	5	6	6	7	8	9	10	17	27
-35°	3	3	4	5	6	6	6	7	8	9	9
-37.5°	2	3	3	4	5	6	6	6	6	7	7
-40°	2	2	3	3	4	4	5	5	6	6	6
-42.5°	2	2	2	2	3	3	4	4	4	5	5
-45°	2	2	2	2	2	2	3	3	3	3	4
-47.5°	1	2	2	2	2	2	2	2	2	3	3
-50°	1	1	2	2	2	2	2	2	2	2	2
-52.5°	1	1	1	1	1	2	2	2	2	2	2
-55°	1	1	1	1	1	1	1	1	1	2	2
-57.5°	0	1	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	0	0	0	0	1	1	1
-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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	1	1	1	1	1	1	0
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°	2	2	2	2	2	2	2	2	2	1	1
52.5°	2	2	2	2	2	2	2	2	2	2	2
50°	2	2	2	2	2	2	2	2	2	2	2
47.5°	3	3	3	3	3	3	3	3	3	2	2
45°	4	4	4	4	4	4	4	4	3	3	3
42.5°	5	6	6	6	6	6	5	5	5	4	4
40°	6	6	6	6	6	6	6	6	6	6	5
37.5°	7	8	8	8	8	8	7	7	7	6	6
35°	10	11	11	11	11	11	10	9	9	8	7
32.5°	34	40	43	45	43	40	34	27	17	10	9
30°	75	83	88	90	88	83	75	63	49	35	20
27.5°	123	135	143	145	143	135	123	107	90	71	50
25°	184	201	212	215	212	201	184	163	139	112	87
22.5°	257	277	290	294	290	277	257	230	198	162	128
20°	334	358	373	378	373	358	334	301	263	221	176
17.5°	411	437	453	458	453	437	411	375	331	281	229
15°	481	509	526	532	526	509	481	444	396	341	281
12.5°	543	568	581	585	581	568	543	504	455	396	331
10°	586	605	618	622	618	605	586	554	504	444	375
7.5°	614	633	644	646	644	633	614	586	543	481	411
5°	633	649	654	656	654	649	633	605	568	509	437
2.5°	644	654	659	660	659	654	644	618	581	526	453
0°	646	656	660	663	660	656	646	622	585	532	458
-2.5°	644	654	659	660	659	654	644	618	581	526	453
-5°	633	649	654	656	654	649	633	605	568	509	437
-7.5°	614	633	644	646	644	633	614	586	543	481	411
-10°	586	605	618	622	618	605	586	554	504	444	375
-12.5°	543	568	581	585	581	568	543	504	455	396	331
-15°	481	509	526	532	526	509	481	444	396	341	281
-17.5°	411	437	453	458	453	437	411	375	331	281	229
-20°	334	358	373	378	373	358	334	301	263	221	176



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	257	277	290	294	290	277	257	230	198	162	128
-25°	184	201	212	215	212	201	184	163	139	112	87
-27.5°	123	135	143	145	143	135	123	107	90	71	50
-30°	75	83	88	90	88	83	75	63	49	35	20
-32.5°	34	40	43	45	43	40	34	27	17	10	9
-35°	10	11	11	11	11	11	10	9	9	8	7
-37.5°	7	8	8	8	8	8	7	7	7	6	6
-40°	6	6	6	6	6	6	6	6	6	6	5
-42.5°	5	6	6	6	6	6	5	5	5	4	4
-45°	4	4	4	4	4	4	4	4	3	3	3
-47.5°	3	3	3	3	3	3	3	3	3	2	2
-50°	2	2	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	2	2
-55°	2	2	2	2	2	2	2	2	2	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	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	1	0	0	0	0	0
55°	1	1	1	1	1	1	1	1	0	0	0
52.5°	2	2	1	1	1	1	1	1	1	1	0
50°	2	2	2	2	2	1	1	1	1	1	1
47.5°	2	2	2	2	2	2	1	1	1	1	1
45°	3	2	2	2	2	2	2	2	1	1	1
42.5°	4	3	3	2	2	2	2	2	2	1	1
40°	5	4	4	3	3	2	2	2	2	2	1
37.5°	6	6	5	4	3	3	2	2	2	2	2
35°	6	6	6	5	4	3	3	2	2	2	2
32.5°	8	7	6	6	5	4	3	3	2	2	2
30°	10	9	7	6	6	5	4	3	3	2	2
27.5°	31	11	9	7	6	6	5	4	3	2	2
25°	61	36	14	9	7	6	6	5	4	3	2
22.5°	95	65	36	11	9	7	6	6	4	3	2
20°	133	95	61	31	10	8	6	6	5	4	3
17.5°	176	128	87	50	20	9	7	6	5	4	3
15°	221	162	112	71	35	10	8	6	6	4	3
12.5°	263	198	139	90	49	17	9	7	6	5	3
10°	301	230	163	107	63	27	9	7	6	5	4
7.5°	334	257	184	123	75	34	10	7	6	5	4
5°	358	277	201	135	83	40	11	8	6	6	4
2.5°	373	290	212	143	88	43	11	8	6	6	4
0°	378	294	215	145	90	45	11	8	6	6	4
-2.5°	373	290	212	143	88	43	11	8	6	6	4
-5°	358	277	201	135	83	40	11	8	6	6	4
-7.5°	334	257	184	123	75	34	10	7	6	5	4
-10°	301	230	163	107	63	27	9	7	6	5	4
-12.5°	263	198	139	90	49	17	9	7	6	5	3
-15°	221	162	112	71	35	10	8	6	6	4	3
-17.5°	176	128	87	50	20	9	7	6	5	4	3
-20°	133	95	61	31	10	8	6	6	5	4	3



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	95	65	36	11	9	7	6	6	4	3	2
-25°	61	36	14	9	7	6	6	5	4	3	2
-27.5°	31	11	9	7	6	6	5	4	3	2	2
-30°	10	9	7	6	6	5	4	3	3	2	2
-32.5°	8	7	6	6	5	4	3	3	2	2	2
-35°	6	6	6	5	4	3	3	2	2	2	2
-37.5°	6	6	5	4	3	3	2	2	2	2	2
-40°	5	4	4	3	3	2	2	2	2	2	1
-42.5°	4	3	3	2	2	2	2	2	2	1	1
-45°	3	2	2	2	2	2	2	2	1	1	1
-47.5°	2	2	2	2	2	2	1	1	1	1	1
-50°	2	2	2	2	2	1	1	1	1	1	1
-52.5°	2	2	1	1	1	1	1	1	1	1	0
-55°	1	1	1	1	1	1	1	1	0	0	0
-57.5°	1	1	1	1	1	1	0	0	0	0	0
-60°	1	1	1	1	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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°	1	0	0	0	0	0	0	0	0	0	0
45°	1	1	0	0	0	0	0	0	0	0	0
42.5°	1	1	1	0	0	0	0	0	0	0	0
40°	1	1	1	0	0	0	0	0	0	0	0
37.5°	1	1	1	1	0	0	0	0	0	0	0
35°	1	1	1	1	0	0	0	0	0	0	0
32.5°	2	1	1	1	1	0	0	0	0	0	0
30°	2	2	1	1	1	0	0	0	0	0	0
27.5°	2	2	1	1	1	1	0	0	0	0	0
25°	2	2	1	1	1	1	0	0	0	0	0
22.5°	2	2	2	1	1	1	0	0	0	0	0
20°	2	2	2	1	1	1	0	0	0	0	0
17.5°	2	2	2	1	1	1	0	0	0	0	0
15°	2	2	2	1	1	1	1	0	0	0	0
12.5°	3	2	2	2	1	1	1	0	0	0	0
10°	3	2	2	2	1	1	1	0	0	0	0
7.5°	3	2	2	2	1	1	1	0	0	0	0
5°	3	2	2	2	1	1	1	0	0	0	0
2.5°	3	2	2	2	1	1	1	0	0	0	0
0°	3	2	2	2	1	1	1	0	0	0	0
-2.5°	3	2	2	2	1	1	1	0	0	0	0
-5°	3	2	2	2	1	1	1	0	0	0	0
-7.5°	3	2	2	2	1	1	1	0	0	0	0
-10°	3	2	2	2	1	1	1	0	0	0	0
-12.5°	3	2	2	2	1	1	1	0	0	0	0
-15°	2	2	2	1	1	1	1	0	0	0	0
-17.5°	2	2	2	1	1	1	0	0	0	0	0
-20°	2	2	2	1	1	1	0	0	0	0	0



REPORT NUMBER: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	2	2	2	1	1	1	0	0	0	0	0
-25°	2	2	1	1	1	1	0	0	0	0	0
-27.5°	2	2	1	1	1	1	0	0	0	0	0
-30°	2	2	1	1	1	0	0	0	0	0	0
-32.5°	2	1	1	1	1	0	0	0	0	0	0
-35°	1	1	1	1	0	0	0	0	0	0	0
-37.5°	1	1	1	1	0	0	0	0	0	0	0
-40°	1	1	1	0	0	0	0	0	0	0	0
-42.5°	1	1	1	0	0	0	0	0	0	0	0
-45°	1	1	0	0	0	0	0	0	0	0	0
-47.5°	1	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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: P221135 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-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)