

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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29414)
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]-LED3597-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

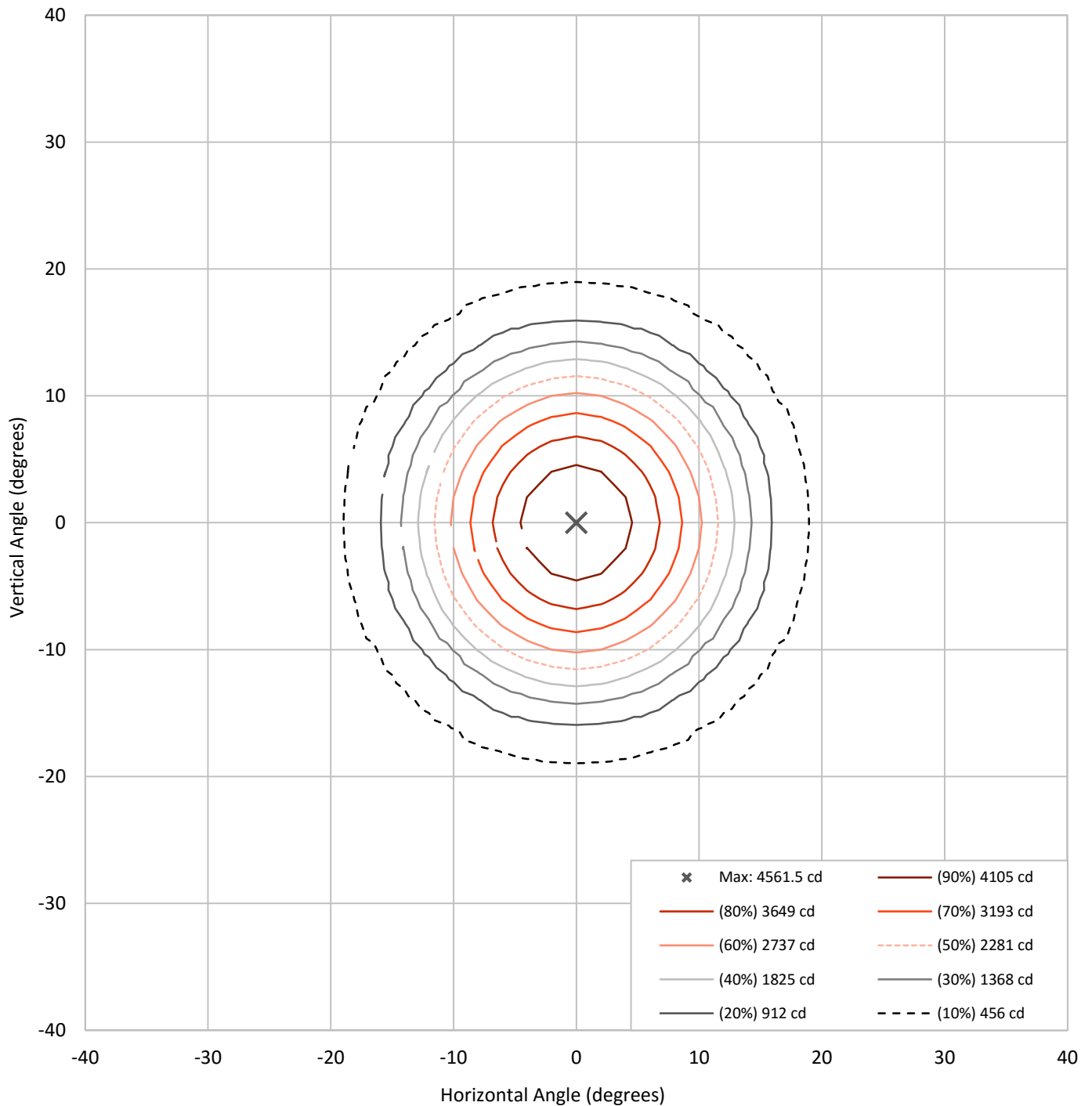
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	774.6 lumens	Max Intensity:	4561.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	77.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	37.9°H x 37.9°V
Beam Lumens:	425.6 lumens	Field Lumens:	658.6 lumens
Beam Efficiency:	54.9%	Field Efficiency:	85.0%

Input Watts (W): 10
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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

Iso-Candela Plot





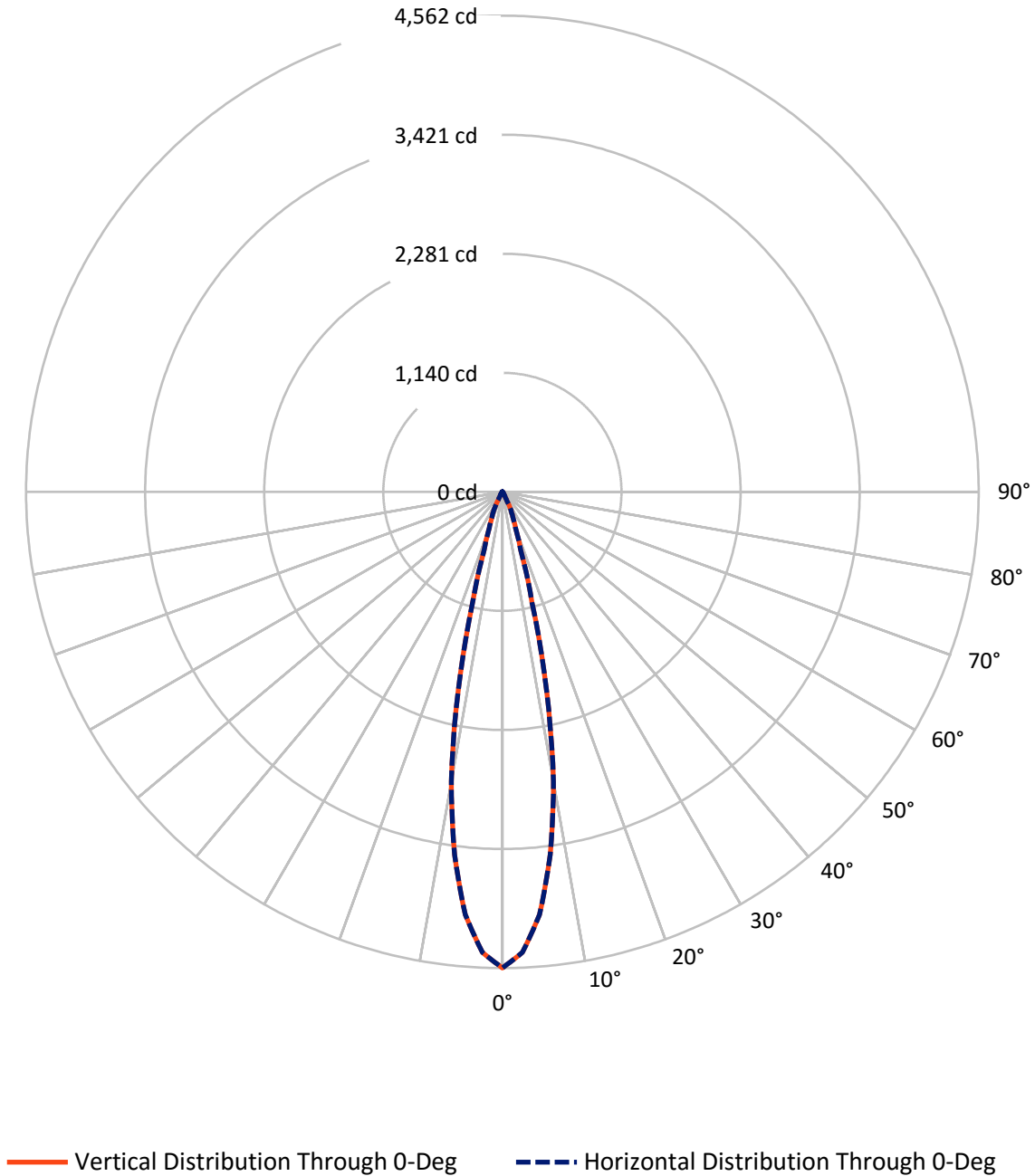
REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

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	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40		0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.5	0.4	0.2	0.1	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.2	0.5	2.4	5.1	5.1	2.4	0.5	0.2	0.0	0.0	0.0	0.0	0.0
20		0.0	0.0	0.1	0.3	2.3	11.0	32.3	32.3	11.0	2.3	0.3	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.4	4.7	31.5	101.3	101.3	31.5	4.7	0.4	0.1	0.0	0.0	0.0	0.0
0		0.0	0.0	0.1	0.4	4.7	31.5	101.3	101.3	31.5	4.7	0.4	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.3	2.3	11.0	32.3	32.3	11.0	2.3	0.3	0.1	0.0	0.0	0.0	0.0
-20		0.0	0.0	0.0	0.2	0.5	2.4	5.1	5.1	2.4	0.5	0.2	0.0	0.0	0.0		
-30	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
-40		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		
-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	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	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	0.0

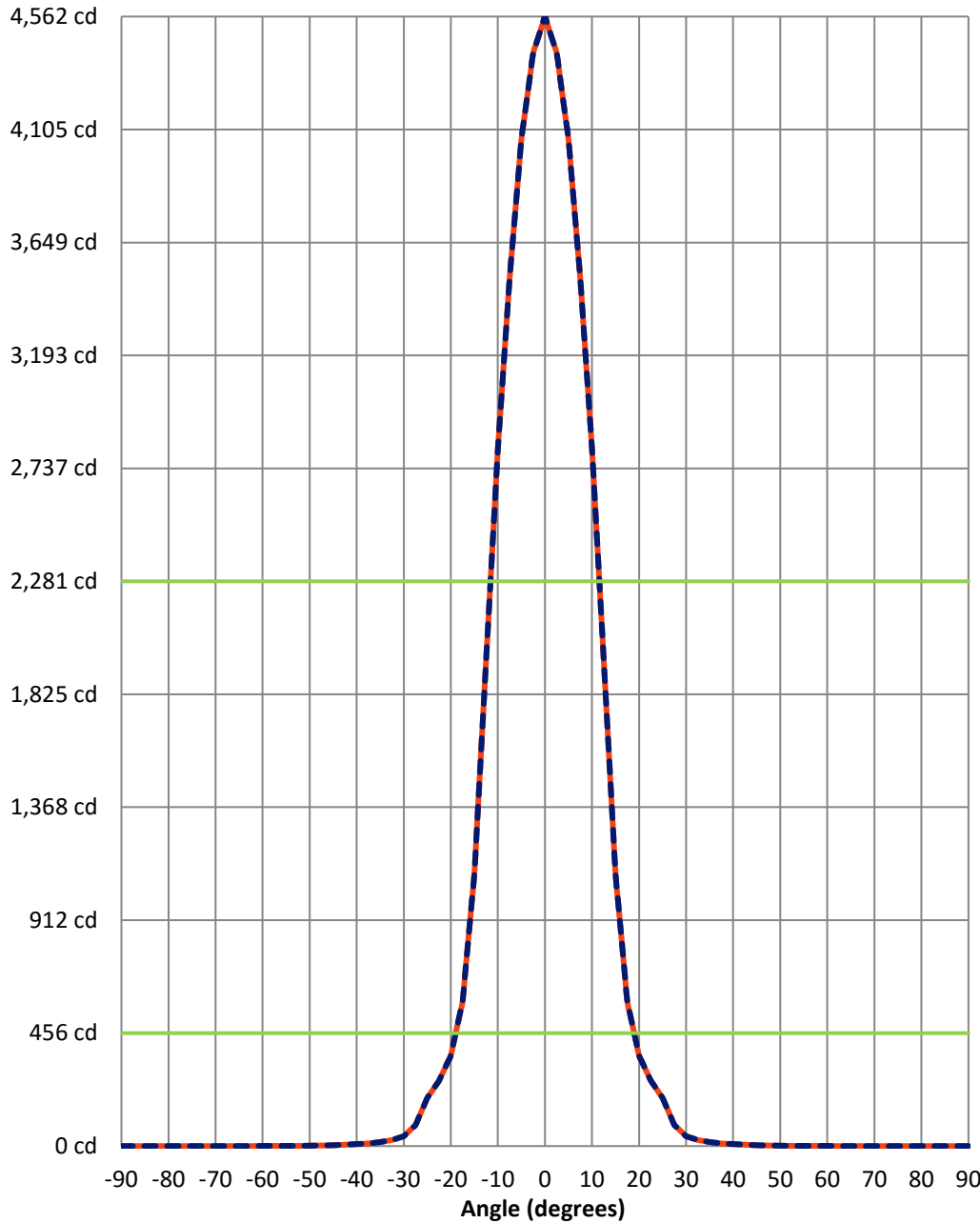
REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

Luminous Intensity Polar Plot



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 23.1°
 Lumens: 425.6
 Efficiency: 54.9%

Field:
 H Angle: 37.9°
 V Angle: 37.9°
 Lumens: 658.6
 Efficiency: 85.0%

Spill:
 Lumens: 116
 Efficiency: 15.0%

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



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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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	1	1
47.5°	0	0	0	0	0	0	0	0	1	1	1
45°	0	0	0	0	0	0	0	1	1	1	1
42.5°	0	0	0	0	0	0	1	1	1	1	1
40°	0	0	0	0	0	1	1	1	1	1	1
37.5°	0	0	0	0	0	1	1	1	1	1	1
35°	0	0	0	0	1	1	1	1	1	1	2
32.5°	0	0	0	0	1	1	1	1	1	2	2
30°	0	0	0	1	1	1	1	1	1	2	3
27.5°	0	0	0	1	1	1	1	1	2	3	3
25°	0	0	1	1	1	1	1	2	2	3	4
22.5°	0	0	1	1	1	1	1	2	3	3	5
20°	0	0	1	1	1	1	1	2	3	4	6
17.5°	0	0	1	1	1	1	2	2	3	5	7
15°	0	0	1	1	1	1	2	3	4	6	8
12.5°	0	1	1	1	1	1	2	3	4	7	9
10°	0	1	1	1	1	1	2	3	5	7	9
7.5°	0	1	1	1	1	1	2	3	5	8	10
5°	0	1	1	1	1	2	2	3	5	8	10
2.5°	0	1	1	1	1	2	2	3	6	8	11
0°	0	1	1	1	1	2	2	3	6	8	11
-2.5°	0	1	1	1	1	2	2	3	6	8	11
-5°	0	1	1	1	1	2	2	3	5	8	10
-7.5°	0	1	1	1	1	1	2	3	5	8	10
-10°	0	1	1	1	1	1	2	3	5	7	9
-12.5°	0	1	1	1	1	1	2	3	4	7	9
-15°	0	0	1	1	1	1	2	3	4	6	8
-17.5°	0	0	1	1	1	1	2	2	3	5	7
-20°	0	0	1	1	1	1	1	2	3	4	6



REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	0	0	1	1	1	1	1	2	3	3	5
-25°	0	0	1	1	1	1	1	2	2	3	4
-27.5°	0	0	0	1	1	1	1	1	2	3	3
-30°	0	0	0	1	1	1	1	1	1	2	3
-32.5°	0	0	0	0	1	1	1	1	1	2	2
-35°	0	0	0	0	1	1	1	1	1	1	2
-37.5°	0	0	0	0	0	1	1	1	1	1	1
-40°	0	0	0	0	0	1	1	1	1	1	1
-42.5°	0	0	0	0	0	0	1	1	1	1	1
-45°	0	0	0	0	0	0	0	1	1	1	1
-47.5°	0	0	0	0	0	0	0	0	1	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	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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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	0	0	0
60°	0	0	0	0	0	0	0	0	0	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	1
55°	0	0	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	2	2	2	2
45°	1	1	1	1	2	2	2	2	3	3	3
42.5°	1	1	1	2	2	3	3	3	4	4	5
40°	1	2	2	3	3	3	4	5	6	7	7
37.5°	2	2	3	3	4	5	6	7	8	9	9
35°	2	3	3	5	6	7	8	9	10	12	14
32.5°	3	4	5	7	8	9	11	13	15	18	20
30°	3	5	7	8	10	12	15	19	22	26	31
27.5°	5	7	8	10	13	16	21	26	33	40	56
25°	6	8	10	13	17	22	30	39	60	80	116
22.5°	7	9	12	16	22	31	44	72	115	169	208
20°	8	11	15	21	30	44	76	136	199	238	273
17.5°	9	13	19	26	39	72	136	207	253	309	362
15°	10	15	22	33	60	115	199	253	321	415	544
12.5°	12	18	26	40	80	169	238	309	415	575	902
10°	14	20	31	56	116	208	273	362	544	902	1388
7.5°	15	22	35	68	149	232	313	454	742	1246	1970
5°	16	23	37	78	174	250	342	525	936	1620	2436
2.5°	16	24	39	83	189	260	360	569	1058	1874	2718
0°	16	24	40	85	194	264	366	584	1099	1962	2815
-2.5°	16	24	39	83	189	260	360	569	1058	1874	2718
-5°	16	23	37	78	174	250	342	525	936	1620	2436
-7.5°	15	22	35	68	149	232	313	454	742	1246	1970
-10°	14	20	31	56	116	208	273	362	544	902	1388
-12.5°	12	18	26	40	80	169	238	309	415	575	902
-15°	10	15	22	33	60	115	199	253	321	415	544
-17.5°	9	13	19	26	39	72	136	207	253	309	362
-20°	8	11	15	21	30	44	76	136	199	238	273



REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	9	12	16	22	31	44	72	115	169	208
-25°	6	8	10	13	17	22	30	39	60	80	116
-27.5°	5	7	8	10	13	16	21	26	33	40	56
-30°	3	5	7	8	10	12	15	19	22	26	31
-32.5°	3	4	5	7	8	9	11	13	15	18	20
-35°	2	3	3	5	6	7	8	9	10	12	14
-37.5°	2	2	3	3	4	5	6	7	8	9	9
-40°	1	2	2	3	3	3	4	5	6	7	7
-42.5°	1	1	1	2	2	3	3	3	4	4	5
-45°	1	1	1	1	2	2	2	2	3	3	3
-47.5°	1	1	1	1	1	1	1	2	2	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°	0	0	1	1	1	1	1	1	1	1	1
-57.5°	0	0	0	0	1	1	1	1	1	1	1
-60°	0	0	0	0	0	0	0	0	0	1	1
-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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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°	0	0	0	0	0	0	0	0	0	0	0
60°	1	1	1	1	1	1	1	1	1	0	0
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	2	2	2	2	2	1	1	1	1	1
47.5°	2	2	2	2	2	2	2	2	2	2	2
45°	3	3	3	3	3	3	3	3	3	3	2
42.5°	5	5	6	6	6	5	5	5	4	4	3
40°	8	8	8	8	8	8	8	7	7	6	5
37.5°	10	10	11	11	11	10	10	9	9	8	7
35°	15	16	16	16	16	16	15	14	12	10	9
32.5°	22	23	24	24	24	23	22	20	18	15	13
30°	35	37	39	40	39	37	35	31	26	22	19
27.5°	68	78	83	85	83	78	68	56	40	33	26
25°	149	174	189	194	189	174	149	116	80	60	39
22.5°	232	250	260	264	260	250	232	208	169	115	72
20°	313	342	360	366	360	342	313	273	238	199	136
17.5°	454	525	569	584	569	525	454	362	309	253	207
15°	742	936	1058	1099	1058	936	742	544	415	321	253
12.5°	1246	1620	1874	1962	1874	1620	1246	902	575	415	309
10°	1970	2436	2718	2815	2718	2436	1970	1388	902	544	362
7.5°	2626	3105	3402	3506	3402	3105	2626	1970	1246	742	454
5°	3105	3617	3947	4067	3947	3617	3105	2436	1620	936	525
2.5°	3402	3947	4297	4414	4297	3947	3402	2718	1874	1058	569
0°	3506	4067	4414	4562	4414	4067	3506	2815	1962	1099	584
-2.5°	3402	3947	4297	4414	4297	3947	3402	2718	1874	1058	569
-5°	3105	3617	3947	4067	3947	3617	3105	2436	1620	936	525
-7.5°	2626	3105	3402	3506	3402	3105	2626	1970	1246	742	454
-10°	1970	2436	2718	2815	2718	2436	1970	1388	902	544	362
-12.5°	1246	1620	1874	1962	1874	1620	1246	902	575	415	309
-15°	742	936	1058	1099	1058	936	742	544	415	321	253
-17.5°	454	525	569	584	569	525	454	362	309	253	207
-20°	313	342	360	366	360	342	313	273	238	199	136



REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	232	250	260	264	260	250	232	208	169	115	72
-25°	149	174	189	194	189	174	149	116	80	60	39
-27.5°	68	78	83	85	83	78	68	56	40	33	26
-30°	35	37	39	40	39	37	35	31	26	22	19
-32.5°	22	23	24	24	24	23	22	20	18	15	13
-35°	15	16	16	16	16	16	15	14	12	10	9
-37.5°	10	10	11	11	11	10	10	9	9	8	7
-40°	8	8	8	8	8	8	8	7	7	6	5
-42.5°	5	5	6	6	6	5	5	5	4	4	3
-45°	3	3	3	3	3	3	3	3	3	3	2
-47.5°	2	2	2	2	2	2	2	2	2	2	2
-50°	1	2	2	2	2	2	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	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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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°	0	0	0	0	0	0	0	0	0	0	0
57.5°	1	1	1	0	0	0	0	0	0	0	0
55°	1	1	1	1	1	0	0	0	0	0	0
52.5°	1	1	1	1	1	1	1	0	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	1	0
45°	2	2	2	1	1	1	1	1	1	1	1
42.5°	3	3	2	2	1	1	1	1	1	1	1
40°	4	3	3	3	2	2	1	1	1	1	1
37.5°	6	5	4	3	3	2	2	1	1	1	1
35°	8	7	6	5	3	3	2	2	1	1	1
32.5°	11	9	8	7	5	4	3	2	2	1	1
30°	15	12	10	8	7	5	3	3	2	1	1
27.5°	21	16	13	10	8	7	5	3	3	2	1
25°	30	22	17	13	10	8	6	4	3	2	2
22.5°	44	31	22	16	12	9	7	5	3	3	2
20°	76	44	30	21	15	11	8	6	4	3	2
17.5°	136	72	39	26	19	13	9	7	5	3	2
15°	199	115	60	33	22	15	10	8	6	4	3
12.5°	238	169	80	40	26	18	12	9	7	4	3
10°	273	208	116	56	31	20	14	9	7	5	3
7.5°	313	232	149	68	35	22	15	10	8	5	3
5°	342	250	174	78	37	23	16	10	8	5	3
2.5°	360	260	189	83	39	24	16	11	8	6	3
0°	366	264	194	85	40	24	16	11	8	6	3
-2.5°	360	260	189	83	39	24	16	11	8	6	3
-5°	342	250	174	78	37	23	16	10	8	5	3
-7.5°	313	232	149	68	35	22	15	10	8	5	3
-10°	273	208	116	56	31	20	14	9	7	5	3
-12.5°	238	169	80	40	26	18	12	9	7	4	3
-15°	199	115	60	33	22	15	10	8	6	4	3
-17.5°	136	72	39	26	19	13	9	7	5	3	2
-20°	76	44	30	21	15	11	8	6	4	3	2



REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	44	31	22	16	12	9	7	5	3	3	2
-25°	30	22	17	13	10	8	6	4	3	2	2
-27.5°	21	16	13	10	8	7	5	3	3	2	1
-30°	15	12	10	8	7	5	3	3	2	1	1
-32.5°	11	9	8	7	5	4	3	2	2	1	1
-35°	8	7	6	5	3	3	2	2	1	1	1
-37.5°	6	5	4	3	3	2	2	1	1	1	1
-40°	4	3	3	3	2	2	1	1	1	1	1
-42.5°	3	3	2	2	1	1	1	1	1	1	1
-45°	2	2	2	1	1	1	1	1	1	1	1
-47.5°	1	1	1	1	1	1	1	1	1	1	0
-50°	1	1	1	1	1	1	1	1	1	0	0
-52.5°	1	1	1	1	1	1	1	0	0	0	0
-55°	1	1	1	1	1	0	0	0	0	0	0
-57.5°	1	1	1	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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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°	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°	1	0	0	0	0	0	0	0	0	0	0
40°	1	1	0	0	0	0	0	0	0	0	0
37.5°	1	1	0	0	0	0	0	0	0	0	0
35°	1	1	1	0	0	0	0	0	0	0	0
32.5°	1	1	1	0	0	0	0	0	0	0	0
30°	1	1	1	1	0	0	0	0	0	0	0
27.5°	1	1	1	1	0	0	0	0	0	0	0
25°	1	1	1	1	1	0	0	0	0	0	0
22.5°	1	1	1	1	1	0	0	0	0	0	0
20°	1	1	1	1	1	0	0	0	0	0	0
17.5°	2	1	1	1	1	0	0	0	0	0	0
15°	2	1	1	1	1	0	0	0	0	0	0
12.5°	2	1	1	1	1	1	0	0	0	0	0
10°	2	1	1	1	1	1	0	0	0	0	0
7.5°	2	1	1	1	1	1	0	0	0	0	0
5°	2	2	1	1	1	1	0	0	0	0	0
2.5°	2	2	1	1	1	1	0	0	0	0	0
0°	2	2	1	1	1	1	0	0	0	0	0
-2.5°	2	2	1	1	1	1	0	0	0	0	0
-5°	2	2	1	1	1	1	0	0	0	0	0
-7.5°	2	1	1	1	1	1	0	0	0	0	0
-10°	2	1	1	1	1	1	0	0	0	0	0
-12.5°	2	1	1	1	1	1	0	0	0	0	0
-15°	2	1	1	1	1	0	0	0	0	0	0
-17.5°	2	1	1	1	1	0	0	0	0	0	0
-20°	1	1	1	1	1	0	0	0	0	0	0



REPORT NUMBER: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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	0	0	0	0	0	0
-25°	1	1	1	1	1	0	0	0	0	0	0
-27.5°	1	1	1	1	0	0	0	0	0	0	0
-30°	1	1	1	1	0	0	0	0	0	0	0
-32.5°	1	1	1	0	0	0	0	0	0	0	0
-35°	1	1	1	0	0	0	0	0	0	0	0
-37.5°	1	1	0	0	0	0	0	0	0	0	0
-40°	1	1	0	0	0	0	0	0	0	0	0
-42.5°	1	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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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: P220351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-M-BK-L1-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)