

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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29416)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

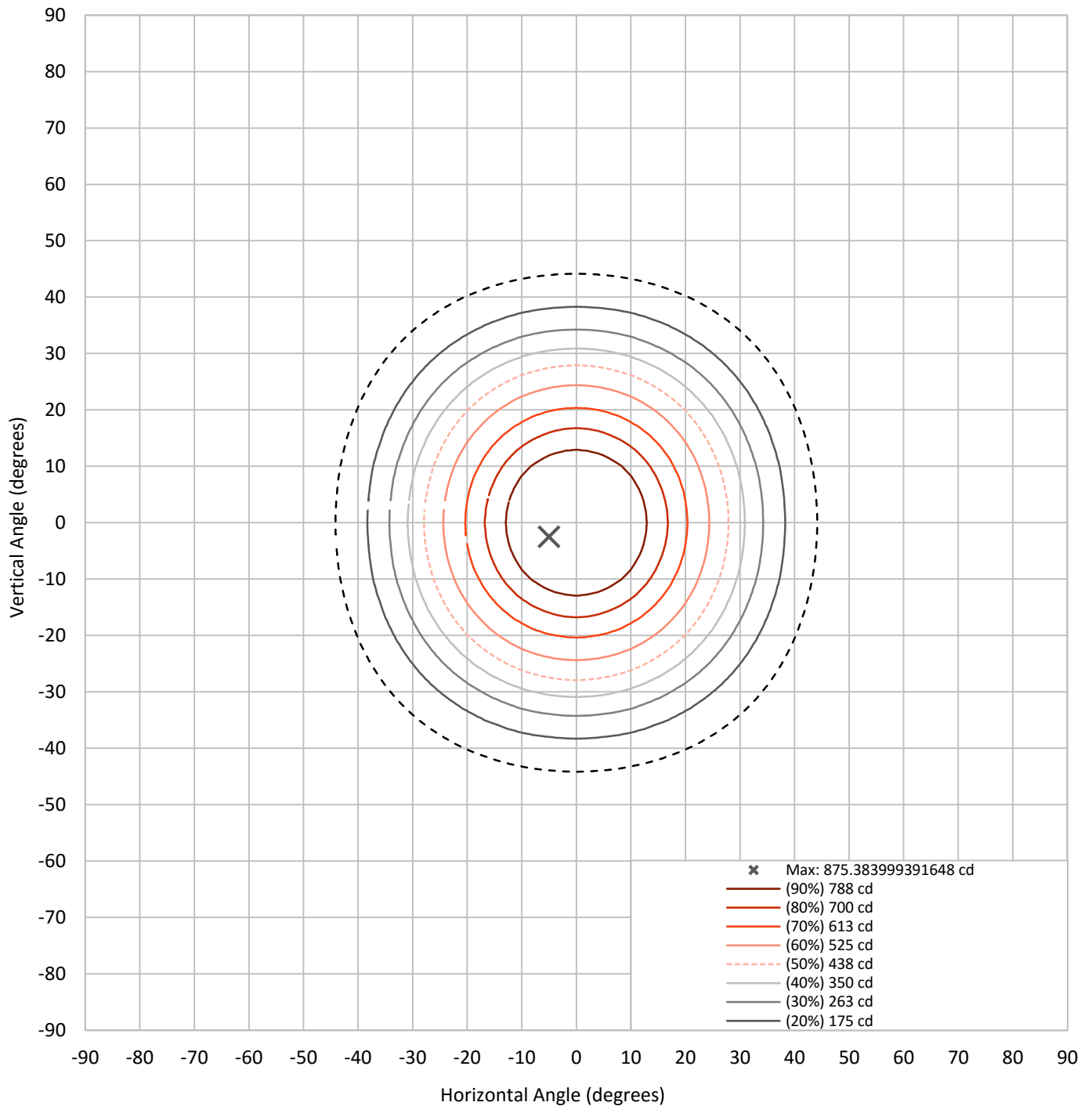
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	734 lumens	Max Intensity:	875.4 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	73.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	55.7°H x 55.1°V	Field Angle (10%):	88.2°H x 87.9°V
Beam Lumens:	470.9 lumens	Field Lumens:	708.5 lumens
Beam Efficiency:	64.2%	Field Efficiency:	96.5%
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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

Iso-Candela Plot





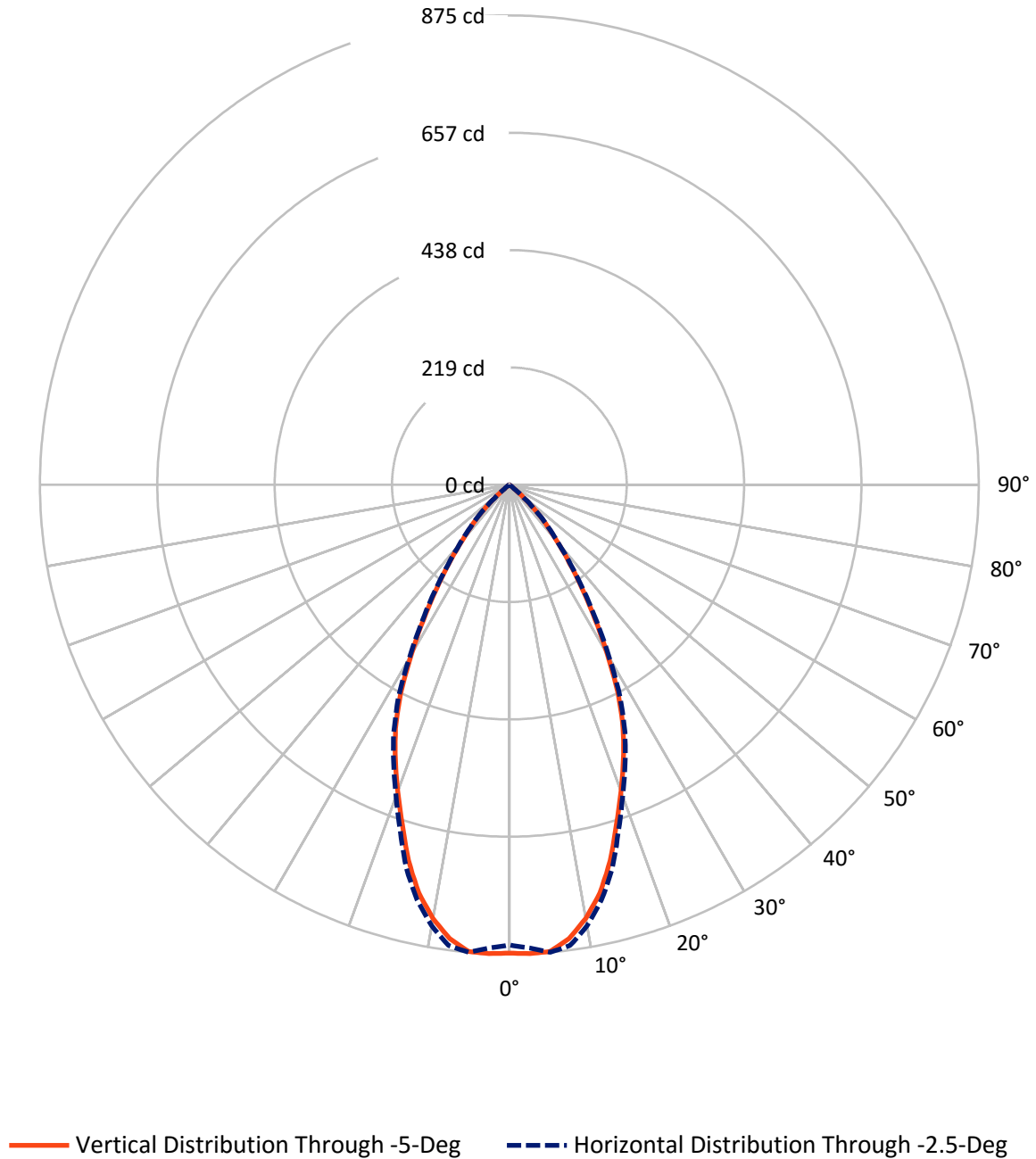
REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

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	0.0	0.0	0.1	0.6	1.6	2.2	2.2	1.6	0.6	0.1	0.0	0.0	0.0	0.0	0.0			
40	0.0	0.0	0.1	1.1	3.2	5.6	7.3	7.3	5.6	3.2	1.1	0.1	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.5	2.9	7.0	11.9	14.9	14.9	11.9	7.0	2.9	0.5	0.0	0.0	0.0	0.0			
20	0.0	0.0	1.2	4.8	11.2	17.5	21.7	21.7	17.5	11.2	4.8	1.2	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.6	6.0	13.6	21.0	25.8	25.8	21.0	13.6	6.0	1.6	0.0	0.0	0.0	0.0			
0	0.0	0.0	1.6	6.0	13.6	21.0	25.8	25.8	21.0	13.6	6.0	1.6	0.0	0.0	0.0	0.0			
-10	0.0	0.0	1.6	6.0	13.6	21.0	25.8	25.8	21.0	13.6	6.0	1.6	0.0	0.0	0.0	0.0			
-20	0.0	0.0	1.2	4.8	11.2	17.5	21.7	21.7	17.5	11.2	4.8	1.2	0.0	0.0	0.0	0.0			
-30	0.0	0.0	0.5	2.9	7.0	11.9	14.9	14.9	11.9	7.0	2.9	0.5	0.0	0.0	0.0	0.0			
-40	0.0	0.0	0.1	1.1	3.2	5.6	7.3	7.3	5.6	3.2	1.1	0.1	0.0	0.0	0.0	0.0			
-50	0.0	0.0	0.0	0.1	0.6	1.6	2.2	2.2	1.6	0.6	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	0.1	0.1	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																		
-90	0.0																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

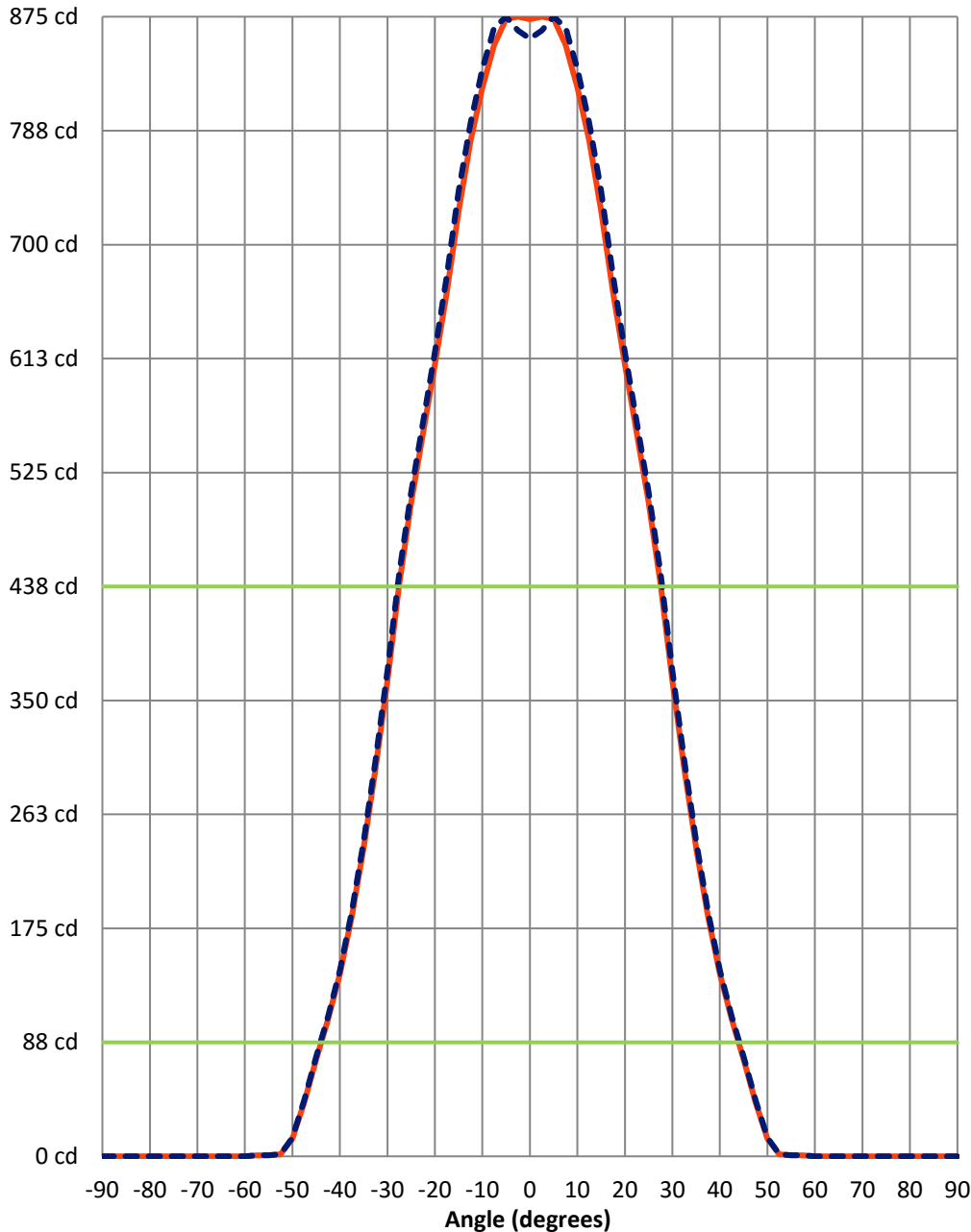
REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 55.7°
 V Angle: 55.1°
 Lumens: 470.9
 Efficiency: 64.2%

Field:
 H Angle: 88.2°
 V Angle: 87.9°
 Lumens: 708.5
 Efficiency: 96.5%

Spill:
 Lumens: 25.6
 Efficiency: 3.5%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-Deg



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	1
45°	0	0	0	0	0	0	0	0	0	1	1
42.5°	0	0	0	0	0	0	0	0	1	1	1
40°	0	0	0	0	0	0	0	1	1	1	2
37.5°	0	0	0	0	0	0	1	1	1	2	9
35°	0	0	0	0	0	1	1	1	1	9	21
32.5°	0	0	0	0	0	1	1	1	7	17	38
30°	0	0	0	0	1	1	1	3	13	33	56
27.5°	0	0	0	0	1	1	1	9	24	48	74
25°	0	0	0	0	1	1	3	14	37	63	89
22.5°	0	0	0	1	1	1	7	24	50	78	104
20°	0	0	0	1	1	1	12	34	62	90	118
17.5°	0	0	0	1	1	3	16	43	73	101	132
15°	0	0	0	1	1	6	23	52	82	111	144
12.5°	0	0	1	1	1	9	29	59	90	121	158
10°	0	0	1	1	1	11	35	66	96	129	169
7.5°	0	0	1	1	1	12	39	71	102	136	178
5°	0	0	1	1	2	14	42	74	105	140	184
2.5°	0	0	1	1	2	14	43	76	107	143	188
0°	0	0	1	1	2	15	44	77	108	144	189
-2.5°	0	0	1	1	2	15	44	77	108	144	189
-5°	0	0	1	1	2	14	42	74	105	140	184
-7.5°	0	0	1	1	1	12	39	71	102	136	178
-10°	0	0	1	1	1	11	35	66	96	129	169
-12.5°	0	0	1	1	1	9	29	59	90	121	158
-15°	0	0	0	1	1	6	23	52	82	111	144
-17.5°	0	0	0	1	1	3	16	43	73	101	132
-20°	0	0	0	1	1	1	12	34	62	90	118



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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	0	1	1	1	7	24	50	78	104
-25°	0	0	0	0	1	1	3	14	37	63	89
-27.5°	0	0	0	0	1	1	1	9	24	48	74
-30°	0	0	0	0	1	1	1	3	13	33	56
-32.5°	0	0	0	0	0	1	1	1	7	17	38
-35°	0	0	0	0	0	1	1	1	1	9	21
-37.5°	0	0	0	0	0	0	1	1	1	2	9
-40°	0	0	0	0	0	0	0	1	1	1	2
-42.5°	0	0	0	0	0	0	0	0	1	1	1
-45°	0	0	0	0	0	0	0	0	0	1	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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	0	0
57.5°	0	0	0	0	0	0	0	0	0	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	3	6	9	11
47.5°	1	1	1	1	3	7	12	16	23	29	35
45°	1	1	3	9	14	24	34	43	52	59	66
42.5°	1	7	13	24	37	50	62	73	82	90	96
40°	9	17	33	48	63	78	90	101	111	121	129
37.5°	21	38	56	74	89	104	118	132	144	158	169
35°	40	60	80	97	114	132	150	169	186	202	217
32.5°	60	81	101	121	142	165	188	212	234	254	273
30°	80	101	124	147	175	203	232	261	288	313	335
27.5°	97	121	147	178	211	245	280	314	347	375	402
25°	114	142	175	211	249	290	331	370	409	443	470
22.5°	132	165	203	245	290	337	383	430	469	500	523
20°	150	188	232	280	331	383	437	482	517	546	572
17.5°	169	212	261	314	370	430	482	522	558	591	619
15°	186	234	288	347	409	469	517	558	598	634	669
12.5°	202	254	313	375	443	500	546	591	634	678	722
10°	217	273	335	402	470	523	572	619	669	722	766
7.5°	229	287	352	424	489	542	593	644	701	757	798
5°	237	298	365	439	502	555	608	664	726	780	821
2.5°	242	304	373	448	510	564	618	676	741	794	835
0°	244	306	375	451	513	567	621	681	747	798	840
-2.5°	242	304	373	448	510	564	618	676	741	794	835
-5°	237	298	365	439	502	555	608	664	726	780	821
-7.5°	229	287	352	424	489	542	593	644	701	757	798
-10°	217	273	335	402	470	523	572	619	669	722	766
-12.5°	202	254	313	375	443	500	546	591	634	678	722
-15°	186	234	288	347	409	469	517	558	598	634	669
-17.5°	169	212	261	314	370	430	482	522	558	591	619
-20°	150	188	232	280	331	383	437	482	517	546	572



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	132	165	203	245	290	337	383	430	469	500	523
-25°	114	142	175	211	249	290	331	370	409	443	470
-27.5°	97	121	147	178	211	245	280	314	347	375	402
-30°	80	101	124	147	175	203	232	261	288	313	335
-32.5°	60	81	101	121	142	165	188	212	234	254	273
-35°	40	60	80	97	114	132	150	169	186	202	217
-37.5°	21	38	56	74	89	104	118	132	144	158	169
-40°	9	17	33	48	63	78	90	101	111	121	129
-42.5°	1	7	13	24	37	50	62	73	82	90	96
-45°	1	1	3	9	14	24	34	43	52	59	66
-47.5°	1	1	1	1	3	7	12	16	23	29	35
-50°	1	1	1	1	1	1	1	3	6	9	11
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	0	0	1	1	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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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°	0	0	0	0	0	0	0	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	2	2	2	2	2	1	1	1	1	1
50°	12	14	14	15	14	14	12	11	9	6	3
47.5°	39	42	43	44	43	42	39	35	29	23	16
45°	71	74	76	77	76	74	71	66	59	52	43
42.5°	102	105	107	108	107	105	102	96	90	82	73
40°	136	140	143	144	143	140	136	129	121	111	101
37.5°	178	184	188	189	188	184	178	169	158	144	132
35°	229	237	242	244	242	237	229	217	202	186	169
32.5°	287	298	304	306	304	298	287	273	254	234	212
30°	352	365	373	375	373	365	352	335	313	288	261
27.5°	424	439	448	451	448	439	424	402	375	347	314
25°	489	502	510	513	510	502	489	470	443	409	370
22.5°	542	555	564	567	564	555	542	523	500	469	430
20°	593	608	618	621	618	608	593	572	546	517	482
17.5°	644	664	676	681	676	664	644	619	591	558	522
15°	701	726	741	747	741	726	701	669	634	598	558
12.5°	757	780	794	798	794	780	757	722	678	634	591
10°	798	821	835	840	835	821	798	766	722	669	619
7.5°	831	854	867	870	867	854	831	798	757	701	644
5°	854	874	875	874	875	874	854	821	780	726	664
2.5°	867	875	865	858	865	875	867	835	794	741	676
0°	870	874	858	856	858	874	870	840	798	747	681
-2.5°	867	875	865	858	865	875	867	835	794	741	676
-5°	854	874	875	874	875	874	854	821	780	726	664
-7.5°	831	854	867	870	867	854	831	798	757	701	644
-10°	798	821	835	840	835	821	798	766	722	669	619
-12.5°	757	780	794	798	794	780	757	722	678	634	591
-15°	701	726	741	747	741	726	701	669	634	598	558
-17.5°	644	664	676	681	676	664	644	619	591	558	522
-20°	593	608	618	621	618	608	593	572	546	517	482



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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°	542	555	564	567	564	555	542	523	500	469	430
-25°	489	502	510	513	510	502	489	470	443	409	370
-27.5°	424	439	448	451	448	439	424	402	375	347	314
-30°	352	365	373	375	373	365	352	335	313	288	261
-32.5°	287	298	304	306	304	298	287	273	254	234	212
-35°	229	237	242	244	242	237	229	217	202	186	169
-37.5°	178	184	188	189	188	184	178	169	158	144	132
-40°	136	140	143	144	143	140	136	129	121	111	101
-42.5°	102	105	107	108	107	105	102	96	90	82	73
-45°	71	74	76	77	76	74	71	66	59	52	43
-47.5°	39	42	43	44	43	42	39	35	29	23	16
-50°	12	14	14	15	14	14	12	11	9	6	3
-52.5°	1	2	2	2	2	2	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°	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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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°	0	0	0	0	0	0	0	0	0	0	0
55°	1	1	0	0	0	0	0	0	0	0	0
52.5°	1	1	1	1	1	0	0	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	12	7	3	1	1	1	1	1	0	0	0
45°	34	24	14	9	3	1	1	1	1	0	0
42.5°	62	50	37	24	13	7	1	1	1	1	0
40°	90	78	63	48	33	17	9	2	1	1	1
37.5°	118	104	89	74	56	38	21	9	2	1	1
35°	150	132	114	97	80	60	40	21	9	1	1
32.5°	188	165	142	121	101	81	60	38	17	7	1
30°	232	203	175	147	124	101	80	56	33	13	3
27.5°	280	245	211	178	147	121	97	74	48	24	9
25°	331	290	249	211	175	142	114	89	63	37	14
22.5°	383	337	290	245	203	165	132	104	78	50	24
20°	437	383	331	280	232	188	150	118	90	62	34
17.5°	482	430	370	314	261	212	169	132	101	73	43
15°	517	469	409	347	288	234	186	144	111	82	52
12.5°	546	500	443	375	313	254	202	158	121	90	59
10°	572	523	470	402	335	273	217	169	129	96	66
7.5°	593	542	489	424	352	287	229	178	136	102	71
5°	608	555	502	439	365	298	237	184	140	105	74
2.5°	618	564	510	448	373	304	242	188	143	107	76
0°	621	567	513	451	375	306	244	189	144	108	77
-2.5°	618	564	510	448	373	304	242	188	143	107	76
-5°	608	555	502	439	365	298	237	184	140	105	74
-7.5°	593	542	489	424	352	287	229	178	136	102	71
-10°	572	523	470	402	335	273	217	169	129	96	66
-12.5°	546	500	443	375	313	254	202	158	121	90	59
-15°	517	469	409	347	288	234	186	144	111	82	52
-17.5°	482	430	370	314	261	212	169	132	101	73	43
-20°	437	383	331	280	232	188	150	118	90	62	34



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	383	337	290	245	203	165	132	104	78	50	24
-25°	331	290	249	211	175	142	114	89	63	37	14
-27.5°	280	245	211	178	147	121	97	74	48	24	9
-30°	232	203	175	147	124	101	80	56	33	13	3
-32.5°	188	165	142	121	101	81	60	38	17	7	1
-35°	150	132	114	97	80	60	40	21	9	1	1
-37.5°	118	104	89	74	56	38	21	9	2	1	1
-40°	90	78	63	48	33	17	9	2	1	1	1
-42.5°	62	50	37	24	13	7	1	1	1	1	0
-45°	34	24	14	9	3	1	1	1	1	0	0
-47.5°	12	7	3	1	1	1	1	1	0	0	0
-50°	1	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	0	0	0	0	0	0
-55°	1	1	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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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°	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°	1	0	0	0	0	0	0	0	0	0	0
35°	1	1	0	0	0	0	0	0	0	0	0
32.5°	1	1	0	0	0	0	0	0	0	0	0
30°	1	1	1	0	0	0	0	0	0	0	0
27.5°	1	1	1	0	0	0	0	0	0	0	0
25°	3	1	1	0	0	0	0	0	0	0	0
22.5°	7	1	1	1	0	0	0	0	0	0	0
20°	12	1	1	1	0	0	0	0	0	0	0
17.5°	16	3	1	1	0	0	0	0	0	0	0
15°	23	6	1	1	0	0	0	0	0	0	0
12.5°	29	9	1	1	1	0	0	0	0	0	0
10°	35	11	1	1	1	0	0	0	0	0	0
7.5°	39	12	1	1	1	0	0	0	0	0	0
5°	42	14	2	1	1	0	0	0	0	0	0
2.5°	43	14	2	1	1	0	0	0	0	0	0
0°	44	15	2	1	1	0	0	0	0	0	0
-2.5°	43	14	2	1	1	0	0	0	0	0	0
-5°	42	14	2	1	1	0	0	0	0	0	0
-7.5°	39	12	1	1	1	0	0	0	0	0	0
-10°	35	11	1	1	1	0	0	0	0	0	0
-12.5°	29	9	1	1	1	0	0	0	0	0	0
-15°	23	6	1	1	0	0	0	0	0	0	0
-17.5°	16	3	1	1	0	0	0	0	0	0	0
-20°	12	1	1	1	0	0	0	0	0	0	0



REPORT NUMBER: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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°	7	1	1	1	0	0	0	0	0	0	0
-25°	3	1	1	0	0	0	0	0	0	0	0
-27.5°	1	1	1	0	0	0	0	0	0	0	0
-30°	1	1	1	0	0	0	0	0	0	0	0
-32.5°	1	1	0	0	0	0	0	0	0	0	0
-35°	1	1	0	0	0	0	0	0	0	0	0
-37.5°	1	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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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: P220367 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-W-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)