

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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
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-LED3597-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

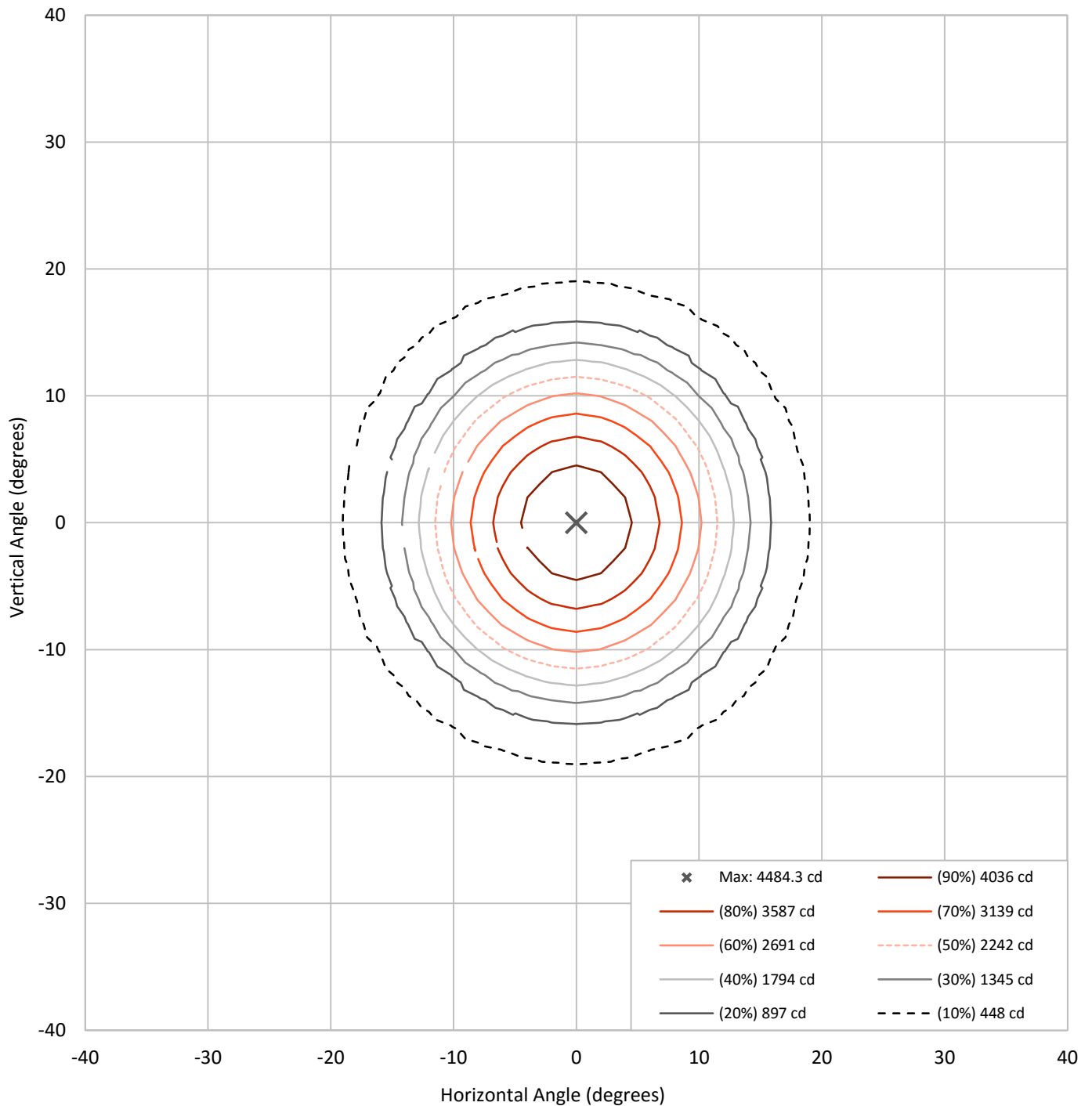
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	799 lumens	Max Intensity:	4484.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23°H x 23°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	417.1 lumens	Field Lumens:	640.5 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%
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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





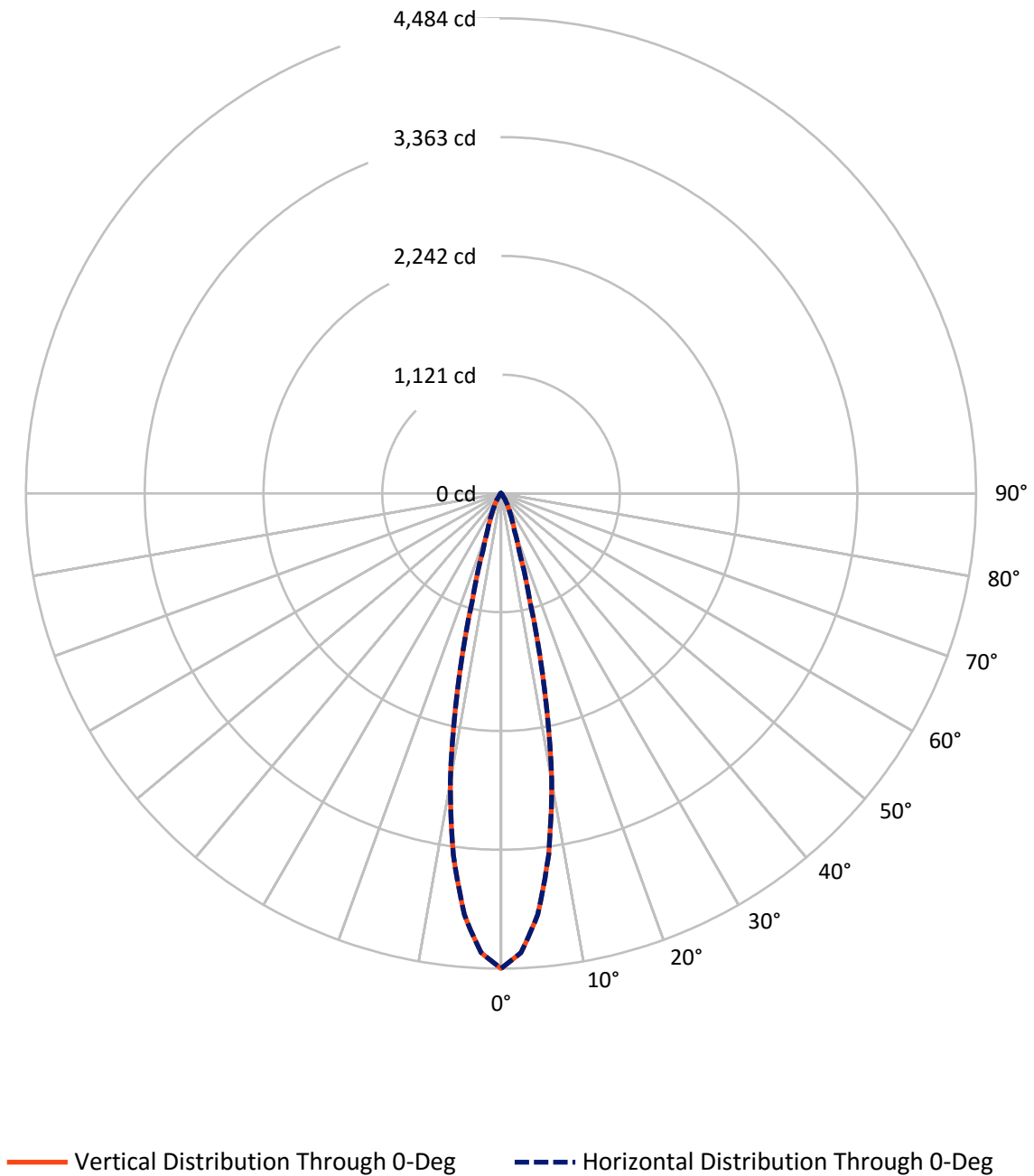
REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-M-BK-L1-UNV

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
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
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
60		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	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0
40		0.0	0.0	0.1	0.2	0.4	1.0	1.6	1.6	1.0	0.4	0.2	0.1	0.0	0.0	
30	0.0	0.0	0.0	0.1	0.4	1.6	3.8	6.0	6.0	3.8	1.6	0.4	0.1	0.0	0.0	0.0
20		0.0	0.0	0.2	0.9	3.6	10.9	31.1	31.1	10.9	3.6	0.9	0.2	0.0	0.0	
10	0.0	0.0	0.0	0.2	1.3	5.5	30.3	99.3	99.3	30.3	5.5	1.3	0.2	0.0	0.0	0.0
0		0.0	0.0	0.2	1.3	5.5	30.3	99.3	99.3	30.3	5.5	1.3	0.2	0.0	0.0	
-10	0.0	0.0	0.0	0.2	1.3	5.5	30.3	99.3	99.3	30.3	5.5	1.3	0.2	0.0	0.0	0.0
-20		0.0	0.0	0.2	0.9	3.6	10.9	31.1	31.1	10.9	3.6	0.9	0.2	0.0	0.0	
-30	0.0	0.0	0.0	0.1	0.4	1.6	3.8	6.0	6.0	3.8	1.6	0.4	0.1	0.0	0.0	0.0
-40		0.0	0.0	0.1	0.2	0.4	1.0	1.6	1.6	1.0	0.4	0.2	0.1	0.0	0.0	
-50	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	0.0
-60		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	
-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	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

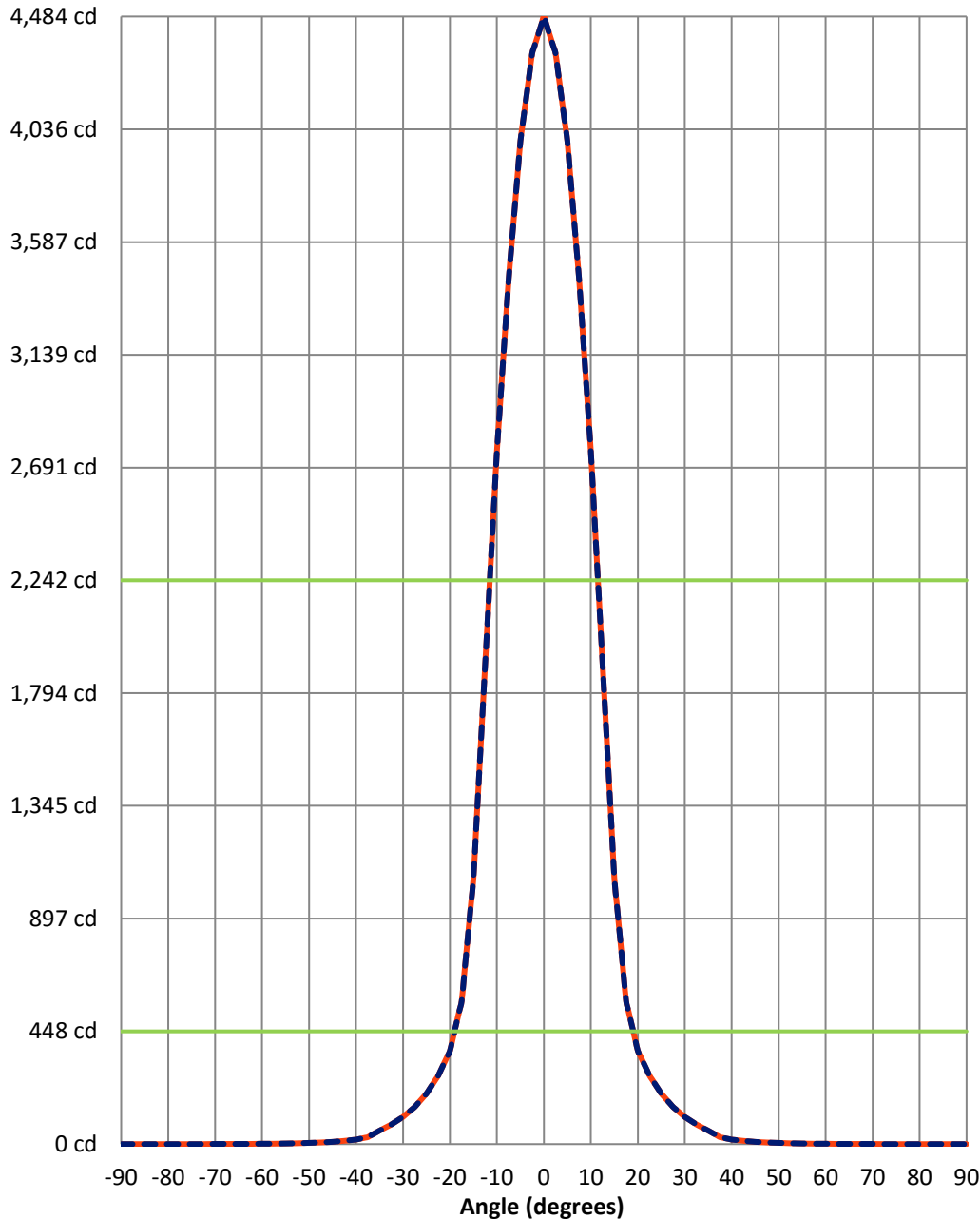
REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-M-BK-L1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
 H Angle: 23°
 V Angle: 23°
 Lumens: 417.1
 Efficiency: 52.2%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 640.5
 Efficiency: 80.2%

Spill:
 Lumens: 158.5
 Efficiency: 19.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3597-M-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	1
35°	0	0	0	0	0	0	0	0	0	0	1
32.5°	0	0	0	0	0	0	0	0	0	0	1
30°	0	0	0	0	0	0	0	0	0	1	1
27.5°	0	0	0	0	0	0	0	0	0	1	1
25°	0	0	0	0	0	0	0	0	0	1	1
22.5°	0	0	0	0	0	0	0	0	0	1	1
20°	0	0	0	0	0	0	0	0	0	1	1
17.5°	0	0	0	0	0	0	0	0	0	1	1
15°	0	0	0	0	0	0	0	0	1	1	1
12.5°	0	0	0	0	0	0	0	0	1	1	1
10°	0	0	0	0	0	0	0	0	1	1	1
7.5°	0	0	0	0	0	0	0	0	1	1	1
5°	0	0	0	0	0	0	0	0	1	1	1
2.5°	0	0	0	0	0	0	0	0	1	1	1
0°	0	0	0	0	0	0	0	0	1	1	1
-2.5°	0	0	0	0	0	0	0	0	1	1	1
-5°	0	0	0	0	0	0	0	0	1	1	1
-7.5°	0	0	0	0	0	0	0	0	1	1	1
-10°	0	0	0	0	0	0	0	0	1	1	1
-12.5°	0	0	0	0	0	0	0	0	1	1	1
-15°	0	0	0	0	0	0	0	0	1	1	1
-17.5°	0	0	0	0	0	0	0	0	0	1	1
-20°	0	0	0	0	0	0	0	0	0	1	1



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1
-25°	0	0	0	0	0	0	0	0	0	1	1
-27.5°	0	0	0	0	0	0	0	0	0	1	1
-30°	0	0	0	0	0	0	0	0	0	1	1
-32.5°	0	0	0	0	0	0	0	0	0	0	1
-35°	0	0	0	0	0	0	0	0	0	0	1
-37.5°	0	0	0	0	0	0	0	0	0	0	1
-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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1
62.5°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	1	1	1	1	1	1	1
55°	0	0	0	1	1	1	1	1	1	1	1
52.5°	0	0	1	1	1	1	1	1	1	1	1
50°	0	0	1	1	1	1	1	1	1	1	2
47.5°	0	1	1	1	1	1	1	1	2	2	2
45°	0	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	2	2	2	2	3
40°	1	1	1	1	1	1	2	2	2	3	3
37.5°	1	1	1	1	1	2	2	2	3	3	4
35°	1	1	1	1	2	2	2	3	3	4	5
32.5°	1	1	1	1	2	2	2	3	4	5	6
30°	1	1	1	2	2	2	3	3	5	6	7
27.5°	1	1	1	2	2	2	3	4	5	7	9
25°	1	1	1	2	2	3	3	5	6	8	10
22.5°	1	1	2	2	2	3	4	5	7	9	12
20°	1	1	2	2	2	3	5	6	8	11	14
17.5°	1	1	2	2	3	3	5	6	9	12	16
15°	1	1	2	2	3	4	5	7	10	13	18
12.5°	1	1	2	2	3	4	6	8	11	15	21
10°	1	1	2	2	3	4	6	8	11	16	23
7.5°	1	2	2	2	3	5	6	8	12	17	25
5°	1	2	2	2	3	5	6	9	13	17	27
2.5°	1	2	2	2	3	5	6	9	13	18	27
0°	1	2	2	2	3	5	7	9	13	18	28
-2.5°	1	2	2	2	3	5	6	9	13	18	27
-5°	1	2	2	2	3	5	6	9	13	17	27
-7.5°	1	2	2	2	3	5	6	8	12	17	25
-10°	1	1	2	2	3	4	6	8	11	16	23
-12.5°	1	1	2	2	3	4	6	8	11	15	21
-15°	1	1	2	2	3	4	5	7	10	13	18
-17.5°	1	1	2	2	3	3	5	6	9	12	16
-20°	1	1	2	2	2	3	5	6	8	11	14



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	1	2	2	2	3	4	5	7	9	12
-25°	1	1	1	2	2	3	3	5	6	8	10
-27.5°	1	1	1	2	2	2	3	4	5	7	9
-30°	1	1	1	2	2	2	3	3	5	6	7
-32.5°	1	1	1	1	2	2	2	3	4	5	6
-35°	1	1	1	1	2	2	2	3	3	4	5
-37.5°	1	1	1	1	1	2	2	2	3	3	4
-40°	1	1	1	1	1	1	2	2	2	3	3
-42.5°	1	1	1	1	1	1	2	2	2	2	3
-45°	0	1	1	1	1	1	1	2	2	2	2
-47.5°	0	1	1	1	1	1	1	1	2	2	2
-50°	0	0	1	1	1	1	1	1	1	1	2
-52.5°	0	0	1	1	1	1	1	1	1	1	1
-55°	0	0	0	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	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	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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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	1	1	1
67.5°	0	0	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	2	2	2	2	2	2
55°	1	1	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	3	3	3	3
50°	2	2	2	2	3	3	3	3	4	4	4
47.5°	2	2	3	3	3	4	5	5	5	6	6
45°	3	3	3	4	5	5	6	6	7	8	8
42.5°	3	4	5	5	6	7	8	9	10	11	11
40°	4	5	6	7	8	9	11	12	13	15	16
37.5°	5	6	7	9	10	12	14	16	18	21	23
35°	6	8	9	12	14	16	19	23	27	34	41
32.5°	8	9	12	15	18	23	27	39	49	58	65
30°	9	12	15	19	25	34	48	60	71	81	90
27.5°	12	15	19	25	38	54	68	81	96	108	121
25°	14	18	25	38	56	72	89	106	124	143	161
22.5°	16	23	34	54	72	91	112	135	160	187	215
20°	19	27	48	68	89	112	139	170	206	245	281
17.5°	23	39	60	81	106	135	170	213	261	316	368
15°	27	49	71	96	124	160	206	261	328	404	514
12.5°	34	58	81	108	143	187	245	316	404	557	820
10°	41	65	90	121	161	215	281	368	514	820	1335
7.5°	46	71	98	132	176	239	320	429	678	1199	1917
5°	50	75	104	140	190	257	348	495	861	1566	2380
2.5°	53	77	107	146	198	268	365	549	1008	1820	2659
0°	54	78	108	148	201	272	371	570	1058	1909	2755
-2.5°	53	77	107	146	198	268	365	549	1008	1820	2659
-5°	50	75	104	140	190	257	348	495	861	1566	2380
-7.5°	46	71	98	132	176	239	320	429	678	1199	1917
-10°	41	65	90	121	161	215	281	368	514	820	1335
-12.5°	34	58	81	108	143	187	245	316	404	557	820
-15°	27	49	71	96	124	160	206	261	328	404	514
-17.5°	23	39	60	81	106	135	170	213	261	316	368
-20°	19	27	48	68	89	112	139	170	206	245	281



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	16	23	34	54	72	91	112	135	160	187	215
-25°	14	18	25	38	56	72	89	106	124	143	161
-27.5°	12	15	19	25	38	54	68	81	96	108	121
-30°	9	12	15	19	25	34	48	60	71	81	90
-32.5°	8	9	12	15	18	23	27	39	49	58	65
-35°	6	8	9	12	14	16	19	23	27	34	41
-37.5°	5	6	7	9	10	12	14	16	18	21	23
-40°	4	5	6	7	8	9	11	12	13	15	16
-42.5°	3	4	5	5	6	7	8	9	10	11	11
-45°	3	3	3	4	5	5	6	6	7	8	8
-47.5°	2	2	3	3	3	4	5	5	5	6	6
-50°	2	2	2	2	3	3	3	3	4	4	4
-52.5°	2	2	2	2	2	2	2	3	3	3	3
-55°	1	1	2	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	2	2	2	2	2	2
-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	1	1	1	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	1	1	1	1	1	1	1	1	1	0
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°	2	2	2	2	2	2	2	1	1	1	1
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	5	5	5	5	5	5	5	4	4	4	3
47.5°	6	6	6	7	6	6	6	6	6	5	5
45°	8	9	9	9	9	9	8	8	8	7	6
42.5°	12	13	13	13	13	13	12	11	11	10	9
40°	17	17	18	18	18	17	17	16	15	13	12
37.5°	25	27	27	28	27	27	25	23	21	18	16
35°	46	50	53	54	53	50	46	41	34	27	23
32.5°	71	75	77	78	77	75	71	65	58	49	39
30°	98	104	107	108	107	104	98	90	81	71	60
27.5°	132	140	146	148	146	140	132	121	108	96	81
25°	176	190	198	201	198	190	176	161	143	124	106
22.5°	239	257	268	272	268	257	239	215	187	160	135
20°	320	348	365	371	365	348	320	281	245	206	170
17.5°	429	495	549	570	549	495	429	368	316	261	213
15°	678	861	1008	1058	1008	861	678	514	404	328	261
12.5°	1199	1566	1820	1909	1820	1566	1199	820	557	404	316
10°	1917	2380	2659	2755	2659	2380	1917	1335	820	514	368
7.5°	2568	3042	3339	3440	3339	3042	2568	1917	1199	678	429
5°	3042	3548	3871	3989	3871	3548	3042	2380	1566	861	495
2.5°	3339	3871	4219	4337	4219	3871	3339	2659	1820	1008	549
0°	3440	3989	4337	4484	4337	3989	3440	2755	1909	1058	570
-2.5°	3339	3871	4219	4337	4219	3871	3339	2659	1820	1008	549
-5°	3042	3548	3871	3989	3871	3548	3042	2380	1566	861	495
-7.5°	2568	3042	3339	3440	3339	3042	2568	1917	1199	678	429
-10°	1917	2380	2659	2755	2659	2380	1917	1335	820	514	368
-12.5°	1199	1566	1820	1909	1820	1566	1199	820	557	404	316
-15°	678	861	1008	1058	1008	861	678	514	404	328	261
-17.5°	429	495	549	570	549	495	429	368	316	261	213
-20°	320	348	365	371	365	348	320	281	245	206	170



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	239	257	268	272	268	257	239	215	187	160	135
-25°	176	190	198	201	198	190	176	161	143	124	106
-27.5°	132	140	146	148	146	140	132	121	108	96	81
-30°	98	104	107	108	107	104	98	90	81	71	60
-32.5°	71	75	77	78	77	75	71	65	58	49	39
-35°	46	50	53	54	53	50	46	41	34	27	23
-37.5°	25	27	27	28	27	27	25	23	21	18	16
-40°	17	17	18	18	18	17	17	16	15	13	12
-42.5°	12	13	13	13	13	13	12	11	11	10	9
-45°	8	9	9	9	9	9	8	8	8	7	6
-47.5°	6	6	6	7	6	6	6	6	6	5	5
-50°	5	5	5	5	5	5	5	4	4	4	3
-52.5°	3	3	3	3	3	3	3	3	3	3	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	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	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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	1	1	1	1	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	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°	2	2	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	2	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	2	1	1	1	1
50°	3	3	3	2	2	2	2	2	1	1	1
47.5°	5	4	3	3	3	2	2	2	2	2	1
45°	6	5	5	4	3	3	3	2	2	2	2
42.5°	8	7	6	5	5	4	3	3	2	2	2
40°	11	9	8	7	6	5	4	3	3	2	2
37.5°	14	12	10	9	7	6	5	4	3	3	2
35°	19	16	14	12	9	8	6	5	4	3	3
32.5°	27	23	18	15	12	9	8	6	5	4	3
30°	48	34	25	19	15	12	9	7	6	5	3
27.5°	68	54	38	25	19	15	12	9	7	5	4
25°	89	72	56	38	25	18	14	10	8	6	5
22.5°	112	91	72	54	34	23	16	12	9	7	5
20°	139	112	89	68	48	27	19	14	11	8	6
17.5°	170	135	106	81	60	39	23	16	12	9	6
15°	206	160	124	96	71	49	27	18	13	10	7
12.5°	245	187	143	108	81	58	34	21	15	11	8
10°	281	215	161	121	90	65	41	23	16	11	8
7.5°	320	239	176	132	98	71	46	25	17	12	8
5°	348	257	190	140	104	75	50	27	17	13	9
2.5°	365	268	198	146	107	77	53	27	18	13	9
0°	371	272	201	148	108	78	54	28	18	13	9
-2.5°	365	268	198	146	107	77	53	27	18	13	9
-5°	348	257	190	140	104	75	50	27	17	13	9
-7.5°	320	239	176	132	98	71	46	25	17	12	8
-10°	281	215	161	121	90	65	41	23	16	11	8
-12.5°	245	187	143	108	81	58	34	21	15	11	8
-15°	206	160	124	96	71	49	27	18	13	10	7
-17.5°	170	135	106	81	60	39	23	16	12	9	6
-20°	139	112	89	68	48	27	19	14	11	8	6



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	112	91	72	54	34	23	16	12	9	7	5
-25°	89	72	56	38	25	18	14	10	8	6	5
-27.5°	68	54	38	25	19	15	12	9	7	5	4
-30°	48	34	25	19	15	12	9	7	6	5	3
-32.5°	27	23	18	15	12	9	8	6	5	4	3
-35°	19	16	14	12	9	8	6	5	4	3	3
-37.5°	14	12	10	9	7	6	5	4	3	3	2
-40°	11	9	8	7	6	5	4	3	3	2	2
-42.5°	8	7	6	5	5	4	3	3	2	2	2
-45°	6	5	5	4	3	3	3	2	2	2	2
-47.5°	5	4	3	3	3	2	2	2	2	2	1
-50°	3	3	3	2	2	2	2	2	1	1	1
-52.5°	2	2	2	2	2	2	2	1	1	1	1
-55°	2	2	2	2	2	1	1	1	1	1	1
-57.5°	2	2	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°	1	1	1	1	1	1	1	1	0	0	0
-67.5°	1	1	1	1	1	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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	1	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	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	0	0	0	0	0	0
47.5°	1	1	1	1	1	1	0	0	0	0	0
45°	1	1	1	1	1	1	0	0	0	0	0
42.5°	2	1	1	1	1	1	1	0	0	0	0
40°	2	1	1	1	1	1	1	0	0	0	0
37.5°	2	2	1	1	1	1	1	1	0	0	0
35°	2	2	2	1	1	1	1	1	0	0	0
32.5°	2	2	2	1	1	1	1	1	0	0	0
30°	3	2	2	2	1	1	1	1	1	0	0
27.5°	3	2	2	2	1	1	1	1	1	0	0
25°	3	3	2	2	1	1	1	1	1	0	0
22.5°	4	3	2	2	2	1	1	1	1	0	0
20°	5	3	2	2	2	1	1	1	1	0	0
17.5°	5	3	3	2	2	1	1	1	1	0	0
15°	5	4	3	2	2	1	1	1	1	1	0
12.5°	6	4	3	2	2	1	1	1	1	1	0
10°	6	4	3	2	2	1	1	1	1	1	0
7.5°	6	5	3	2	2	2	1	1	1	1	0
5°	6	5	3	2	2	2	1	1	1	1	0
2.5°	6	5	3	2	2	2	1	1	1	1	0
0°	7	5	3	2	2	2	1	1	1	1	0
-2.5°	6	5	3	2	2	2	1	1	1	1	0
-5°	6	5	3	2	2	2	1	1	1	1	0
-7.5°	6	5	3	2	2	2	1	1	1	1	0
-10°	6	4	3	2	2	1	1	1	1	1	0
-12.5°	6	4	3	2	2	1	1	1	1	1	0
-15°	5	4	3	2	2	1	1	1	1	1	0
-17.5°	5	3	3	2	2	1	1	1	1	0	0
-20°	5	3	2	2	2	1	1	1	1	0	0



REPORT NUMBER: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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°	4	3	2	2	2	1	1	1	1	0	0
-25°	3	3	2	2	1	1	1	1	1	0	0
-27.5°	3	2	2	2	1	1	1	1	1	0	0
-30°	3	2	2	2	1	1	1	1	1	0	0
-32.5°	2	2	2	1	1	1	1	1	0	0	0
-35°	2	2	2	1	1	1	1	1	0	0	0
-37.5°	2	2	1	1	1	1	1	1	0	0	0
-40°	2	1	1	1	1	1	1	0	0	0	0
-42.5°	2	1	1	1	1	1	1	0	0	0	0
-45°	1	1	1	1	1	1	0	0	0	0	0
-47.5°	1	1	1	1	1	1	0	0	0	0	0
-50°	1	1	1	1	1	0	0	0	0	0	0
-52.5°	1	1	1	1	1	0	0	0	0	0	0
-55°	1	1	1	1	0	0	0	0	0	0	0
-57.5°	1	1	1	0	0	0	0	0	0	0	0
-60°	1	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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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: P220415 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-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)