

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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220414 (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-LED3097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	759.8 lumens	Max Intensity:	4263.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	76.0 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:	396.6 lumens	Field Lumens:	609 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%

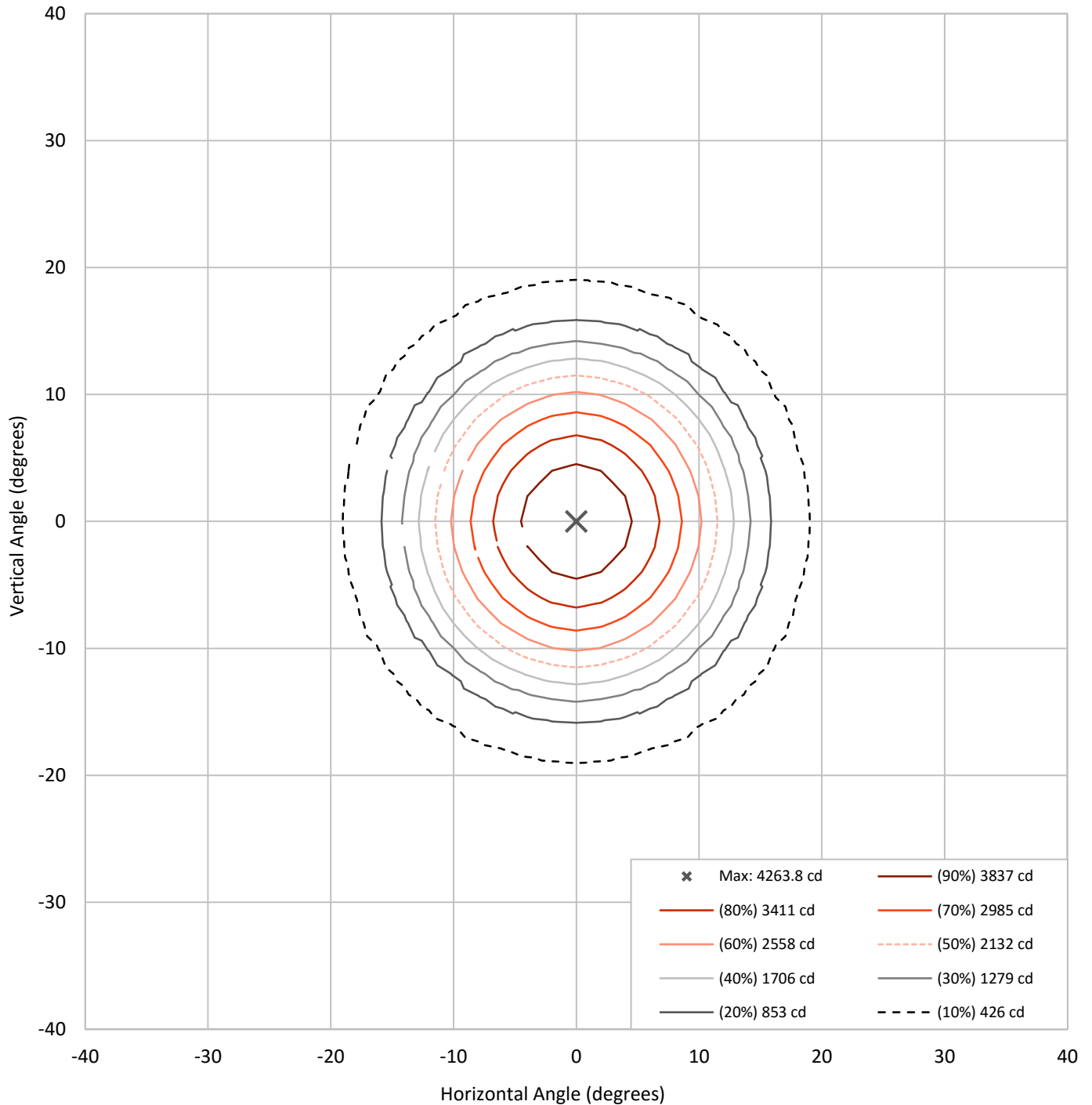
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-BK-L1-UNV

Iso-Candela Plot





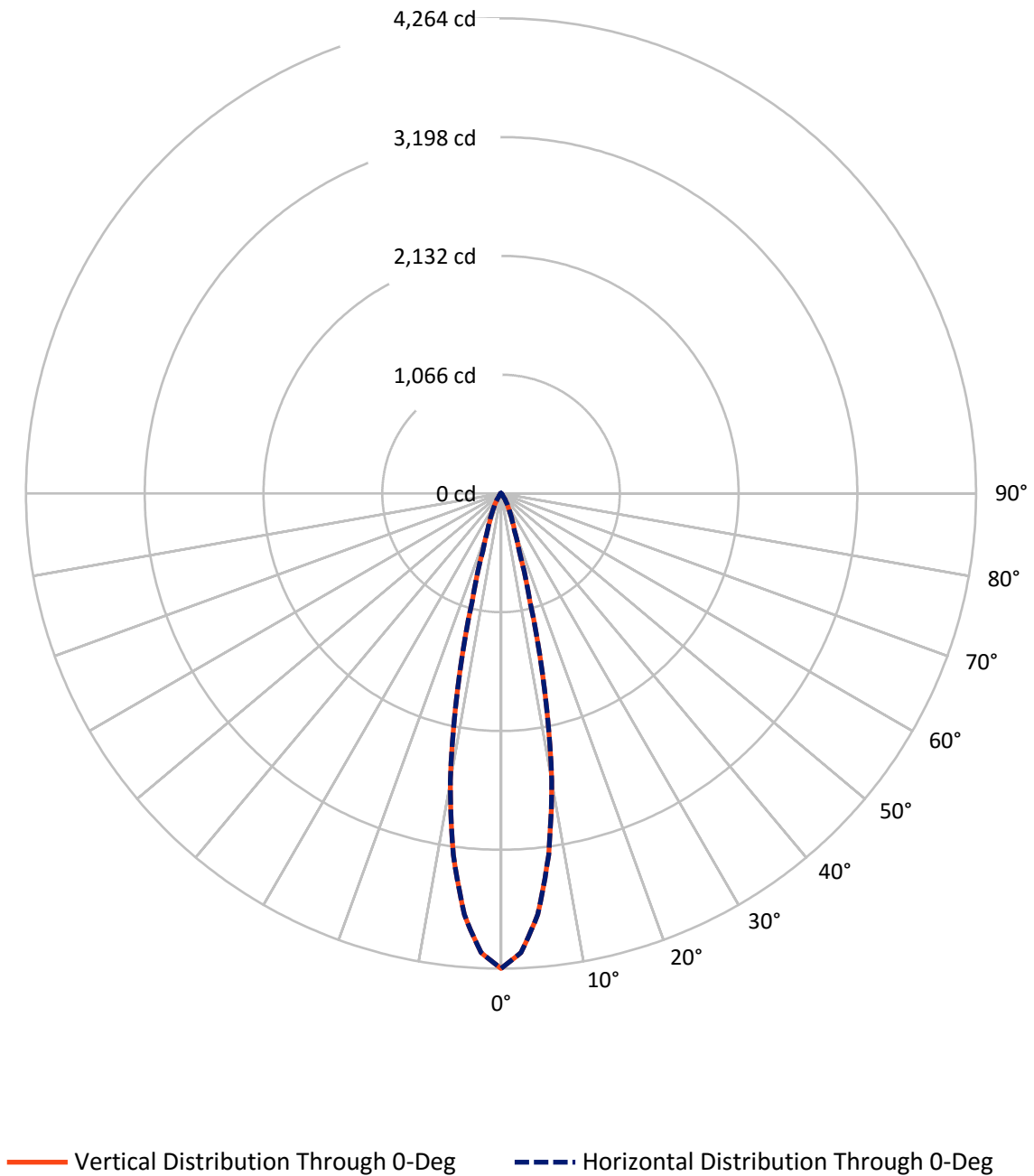
REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-BK-L1-UNV

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	0.1	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	0.0
40		0.0	0.0	0.1	0.2	0.4	1.0	1.5	1.5	1.0	0.4	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.4	1.5	3.6	5.7	5.7	3.6	1.5	0.4	0.1	0.0	0.0	0.0	0.0
20		0.0	0.0	0.2	0.8	3.4	10.3	29.6	29.6	10.3	3.4	0.8	0.2	0.0	0.0		
10	0.0	0.0	0.0	0.2	1.3	5.3	28.8	94.4	94.4	28.8	5.3	1.3	0.2	0.0	0.0	0.0	0.0
0		0.0	0.0	0.2	1.3	5.3	28.8	94.4	94.4	28.8	5.3	1.3	0.2	0.0	0.0		
-10	0.0	0.0	0.0	0.2	1.3	5.3	28.8	94.4	94.4	28.8	5.3	1.3	0.2	0.0	0.0	0.0	0.0
-20		0.0	0.0	0.2	0.8	3.4	10.3	29.6	29.6	10.3	3.4	0.8	0.2	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.4	1.5	3.6	5.7	5.7	3.6	1.5	0.4	0.1	0.0	0.0	0.0	0.0
-40		0.0	0.0	0.1	0.2	0.4	1.0	1.5	1.5	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	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

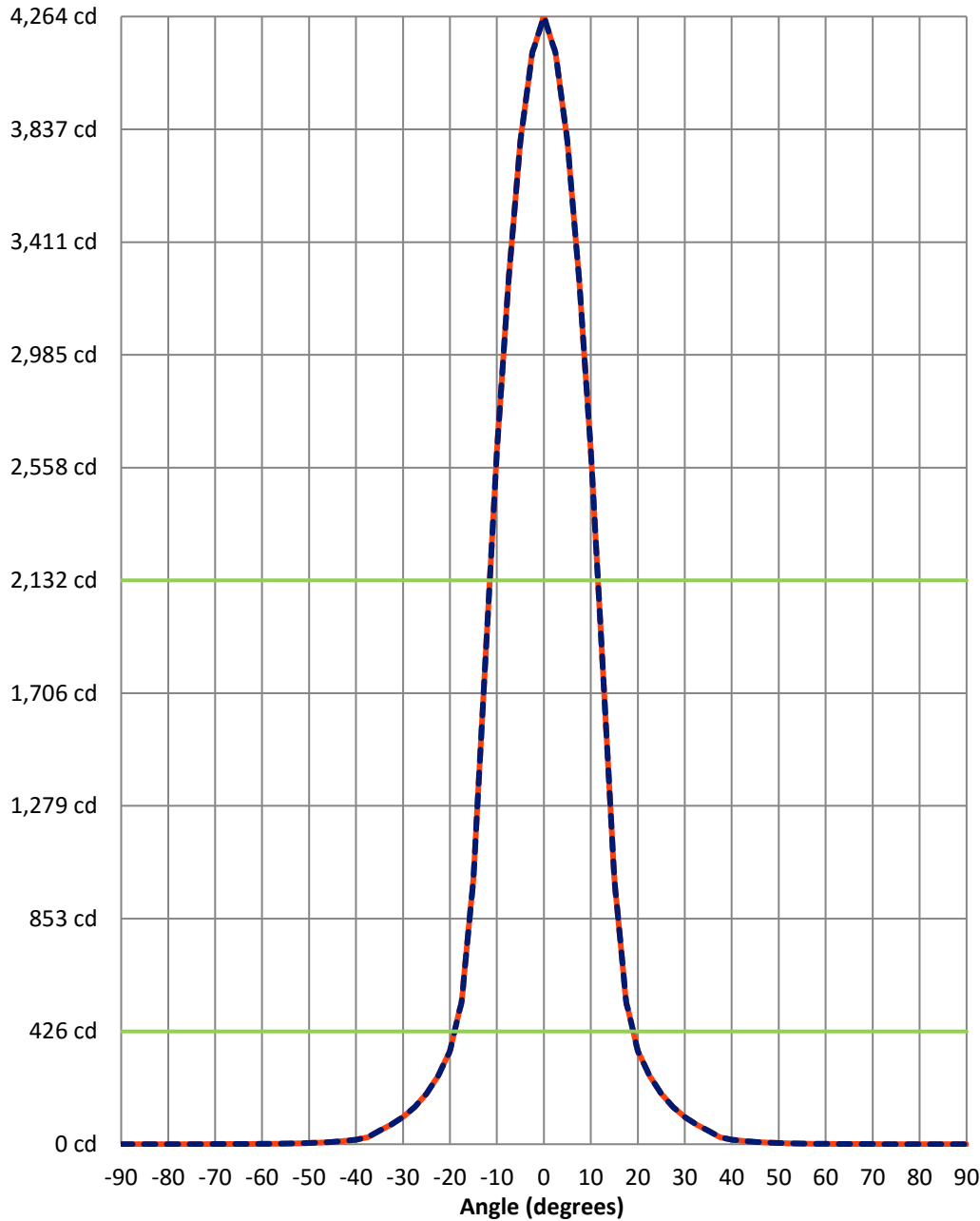
REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-BK-L1-UNV

Luminous Intensity Polar Plot



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-M-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 23°
 V Angle: 23°
 Lumens: 396.6
 Efficiency: 52.2%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 609
 Efficiency: 80.2%

Spill:
 Lumens: 150.8
 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-LED3097-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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	2	2
45°	0	1	1	1	1	1	1	2	2	2	2
42.5°	1	1	1	1	1	1	1	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	1	2	2	2	3	4	5
32.5°	1	1	1	1	2	2	2	3	4	5	6
30°	1	1	1	1	2	2	3	3	4	6	7
27.5°	1	1	1	2	2	2	3	4	5	6	8
25°	1	1	1	2	2	3	3	5	6	8	10
22.5°	1	1	1	2	2	3	4	5	7	9	12
20°	1	1	2	2	2	3	4	6	7	10	14
17.5°	1	1	2	2	2	3	5	6	8	12	15
15°	1	1	2	2	3	4	5	7	9	13	17
12.5°	1	1	2	2	3	4	5	7	10	14	20
10°	1	1	2	2	3	4	6	8	11	15	22
7.5°	1	1	2	2	3	4	6	8	12	16	24
5°	1	1	2	2	3	4	6	8	12	17	25
2.5°	1	1	2	2	3	5	6	8	12	17	26
0°	1	2	2	2	3	5	6	9	12	17	26
-2.5°	1	1	2	2	3	5	6	8	12	17	26
-5°	1	1	2	2	3	4	6	8	12	17	25
-7.5°	1	1	2	2	3	4	6	8	12	16	24
-10°	1	1	2	2	3	4	6	8	11	15	22
-12.5°	1	1	2	2	3	4	5	7	10	14	20
-15°	1	1	2	2	3	4	5	7	9	13	17
-17.5°	1	1	2	2	2	3	5	6	8	12	15
-20°	1	1	2	2	2	3	4	6	7	10	14



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	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	6	8
-30°	1	1	1	1	2	2	3	3	4	6	7
-32.5°	1	1	1	1	2	2	2	3	4	5	6
-35°	1	1	1	1	1	2	2	2	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	1	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	1	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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	2	2	2	2	2
55°	1	1	1	2	2	2	2	2	2	2	2
52.5°	1	2	2	2	2	2	2	2	3	3	3
50°	2	2	2	2	3	3	3	3	4	4	4
47.5°	2	2	3	3	3	4	4	5	5	5	6
45°	2	3	3	4	5	5	6	6	7	7	8
42.5°	3	4	4	5	6	7	7	8	9	10	11
40°	4	5	6	6	8	9	10	12	13	14	15
37.5°	5	6	7	8	10	12	14	15	17	20	22
35°	6	7	9	11	13	15	18	22	26	32	39
32.5°	7	9	11	14	17	21	26	37	47	55	62
30°	9	11	14	18	23	33	46	57	67	77	86
27.5°	11	14	18	24	36	51	65	77	91	103	115
25°	13	17	23	36	53	68	84	101	118	136	153
22.5°	15	21	33	51	68	87	106	129	153	178	204
20°	18	26	46	65	84	106	132	162	196	233	268
17.5°	22	37	57	77	101	129	162	203	248	301	350
15°	26	47	67	91	118	153	196	248	312	384	489
12.5°	32	55	77	103	136	178	233	301	384	529	779
10°	39	62	86	115	153	204	268	350	489	779	1270
7.5°	44	67	93	126	168	227	304	408	644	1140	1823
5°	48	71	99	134	180	245	331	471	818	1489	2263
2.5°	50	73	102	139	188	255	347	522	958	1730	2528
0°	51	74	103	141	191	259	353	542	1006	1815	2620
-2.5°	50	73	102	139	188	255	347	522	958	1730	2528
-5°	48	71	99	134	180	245	331	471	818	1489	2263
-7.5°	44	67	93	126	168	227	304	408	644	1140	1823
-10°	39	62	86	115	153	204	268	350	489	779	1270
-12.5°	32	55	77	103	136	178	233	301	384	529	779
-15°	26	47	67	91	118	153	196	248	312	384	489
-17.5°	22	37	57	77	101	129	162	203	248	301	350
-20°	18	26	46	65	84	106	132	162	196	233	268



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	15	21	33	51	68	87	106	129	153	178	204
-25°	13	17	23	36	53	68	84	101	118	136	153
-27.5°	11	14	18	24	36	51	65	77	91	103	115
-30°	9	11	14	18	23	33	46	57	67	77	86
-32.5°	7	9	11	14	17	21	26	37	47	55	62
-35°	6	7	9	11	13	15	18	22	26	32	39
-37.5°	5	6	7	8	10	12	14	15	17	20	22
-40°	4	5	6	6	8	9	10	12	13	14	15
-42.5°	3	4	4	5	6	7	7	8	9	10	11
-45°	2	3	3	4	5	5	6	6	7	7	8
-47.5°	2	2	3	3	3	4	4	5	5	5	6
-50°	2	2	2	2	3	3	3	3	4	4	4
-52.5°	1	2	2	2	2	2	2	2	3	3	3
-55°	1	1	1	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	1	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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	1	1	1	2	1	1	1	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	2
50°	4	4	5	5	5	4	4	4	4	4	3
47.5°	6	6	6	6	6	6	6	6	5	5	5
45°	8	8	8	9	8	8	8	8	7	7	6
42.5°	12	12	12	12	12	12	12	11	10	9	8
40°	16	17	17	17	17	17	16	15	14	13	12
37.5°	24	25	26	26	26	25	24	22	20	17	15
35°	44	48	50	51	50	48	44	39	32	26	22
32.5°	67	71	73	74	73	71	67	62	55	47	37
30°	93	99	102	103	102	99	93	86	77	67	57
27.5°	126	134	139	141	139	134	126	115	103	91	77
25°	168	180	188	191	188	180	168	153	136	118	101
22.5°	227	245	255	259	255	245	227	204	178	153	129
20°	304	331	347	353	347	331	304	268	233	196	162
17.5°	408	471	522	542	522	471	408	350	301	248	203
15°	644	818	958	1006	958	818	644	489	384	312	248
12.5°	1140	1489	1730	1815	1730	1489	1140	779	529	384	301
10°	1823	2263	2528	2620	2528	2263	1823	1270	779	489	350
7.5°	2442	2892	3175	3271	3175	2892	2442	1823	1140	644	408
5°	2892	3374	3680	3793	3680	3374	2892	2263	1489	818	471
2.5°	3175	3680	4011	4124	4011	3680	3175	2528	1730	958	522
0°	3271	3793	4124	4264	4124	3793	3271	2620	1815	1006	542
-2.5°	3175	3680	4011	4124	4011	3680	3175	2528	1730	958	522
-5°	2892	3374	3680	3793	3680	3374	2892	2263	1489	818	471
-7.5°	2442	2892	3175	3271	3175	2892	2442	1823	1140	644	408
-10°	1823	2263	2528	2620	2528	2263	1823	1270	779	489	350
-12.5°	1140	1489	1730	1815	1730	1489	1140	779	529	384	301
-15°	644	818	958	1006	958	818	644	489	384	312	248
-17.5°	408	471	522	542	522	471	408	350	301	248	203
-20°	304	331	347	353	347	331	304	268	233	196	162



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	227	245	255	259	255	245	227	204	178	153	129
-25°	168	180	188	191	188	180	168	153	136	118	101
-27.5°	126	134	139	141	139	134	126	115	103	91	77
-30°	93	99	102	103	102	99	93	86	77	67	57
-32.5°	67	71	73	74	73	71	67	62	55	47	37
-35°	44	48	50	51	50	48	44	39	32	26	22
-37.5°	24	25	26	26	26	25	24	22	20	17	15
-40°	16	17	17	17	17	17	16	15	14	13	12
-42.5°	12	12	12	12	12	12	12	11	10	9	8
-45°	8	8	8	9	8	8	8	8	7	7	6
-47.5°	6	6	6	6	6	6	6	6	5	5	5
-50°	4	4	5	5	5	4	4	4	4	4	3
-52.5°	3	3	3	3	3	3	3	3	3	3	2
-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°	1	1	1	2	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°	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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	1	1	1	1	1	1	1	1	1
55°	2	2	2	2	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	2	1	1	1	1	1
50°	3	3	3	2	2	2	2	2	1	1	1
47.5°	4	4	3	3	3	2	2	2	2	1	1
45°	6	5	5	4	3	3	2	2	2	2	2
42.5°	7	7	6	5	4	4	3	3	2	2	2
40°	10	9	8	6	6	5	4	3	3	2	2
37.5°	14	12	10	8	7	6	5	4	3	3	2
35°	18	15	13	11	9	7	6	5	4	3	2
32.5°	26	21	17	14	11	9	7	6	5	4	3
30°	46	33	23	18	14	11	9	7	6	4	3
27.5°	65	51	36	24	18	14	11	8	6	5	4
25°	84	68	53	36	23	17	13	10	8	6	5
22.5°	106	87	68	51	33	21	15	12	9	7	5
20°	132	106	84	65	46	26	18	14	10	7	6
17.5°	162	129	101	77	57	37	22	15	12	8	6
15°	196	153	118	91	67	47	26	17	13	9	7
12.5°	233	178	136	103	77	55	32	20	14	10	7
10°	268	204	153	115	86	62	39	22	15	11	8
7.5°	304	227	168	126	93	67	44	24	16	12	8
5°	331	245	180	134	99	71	48	25	17	12	8
2.5°	347	255	188	139	102	73	50	26	17	12	8
0°	353	259	191	141	103	74	51	26	17	12	9
-2.5°	347	255	188	139	102	73	50	26	17	12	8
-5°	331	245	180	134	99	71	48	25	17	12	8
-7.5°	304	227	168	126	93	67	44	24	16	12	8
-10°	268	204	153	115	86	62	39	22	15	11	8
-12.5°	233	178	136	103	77	55	32	20	14	10	7
-15°	196	153	118	91	67	47	26	17	13	9	7
-17.5°	162	129	101	77	57	37	22	15	12	8	6
-20°	132	106	84	65	46	26	18	14	10	7	6



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	106	87	68	51	33	21	15	12	9	7	5
-25°	84	68	53	36	23	17	13	10	8	6	5
-27.5°	65	51	36	24	18	14	11	8	6	5	4
-30°	46	33	23	18	14	11	9	7	6	4	3
-32.5°	26	21	17	14	11	9	7	6	5	4	3
-35°	18	15	13	11	9	7	6	5	4	3	2
-37.5°	14	12	10	8	7	6	5	4	3	3	2
-40°	10	9	8	6	6	5	4	3	3	2	2
-42.5°	7	7	6	5	4	4	3	3	2	2	2
-45°	6	5	5	4	3	3	2	2	2	2	2
-47.5°	4	4	3	3	3	2	2	2	2	1	1
-50°	3	3	3	2	2	2	2	2	1	1	1
-52.5°	2	2	2	2	2	2	1	1	1	1	1
-55°	2	2	2	2	1	1	1	1	1	1	1
-57.5°	2	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°	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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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°	1	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	1	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	1	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	1	1	1	1	1	0	0
20°	4	3	2	2	2	1	1	1	1	0	0
17.5°	5	3	2	2	2	1	1	1	1	0	0
15°	5	4	3	2	2	1	1	1	1	1	0
12.5°	5	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	4	3	2	2	1	1	1	1	1	0
5°	6	4	3	2	2	1	1	1	1	1	0
2.5°	6	5	3	2	2	1	1	1	1	1	0
0°	6	5	3	2	2	2	1	1	1	1	0
-2.5°	6	5	3	2	2	1	1	1	1	1	0
-5°	6	4	3	2	2	1	1	1	1	1	0
-7.5°	6	4	3	2	2	1	1	1	1	1	0
-10°	6	4	3	2	2	1	1	1	1	1	0
-12.5°	5	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	2	2	2	1	1	1	1	0	0
-20°	4	3	2	2	2	1	1	1	1	0	0



REPORT NUMBER: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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	1	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	1	1	1	1	1	1	0	0
-32.5°	2	2	2	1	1	1	1	1	0	0	0
-35°	2	2	1	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°	1	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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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: P220414 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3097-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)