

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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
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]-LED3097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

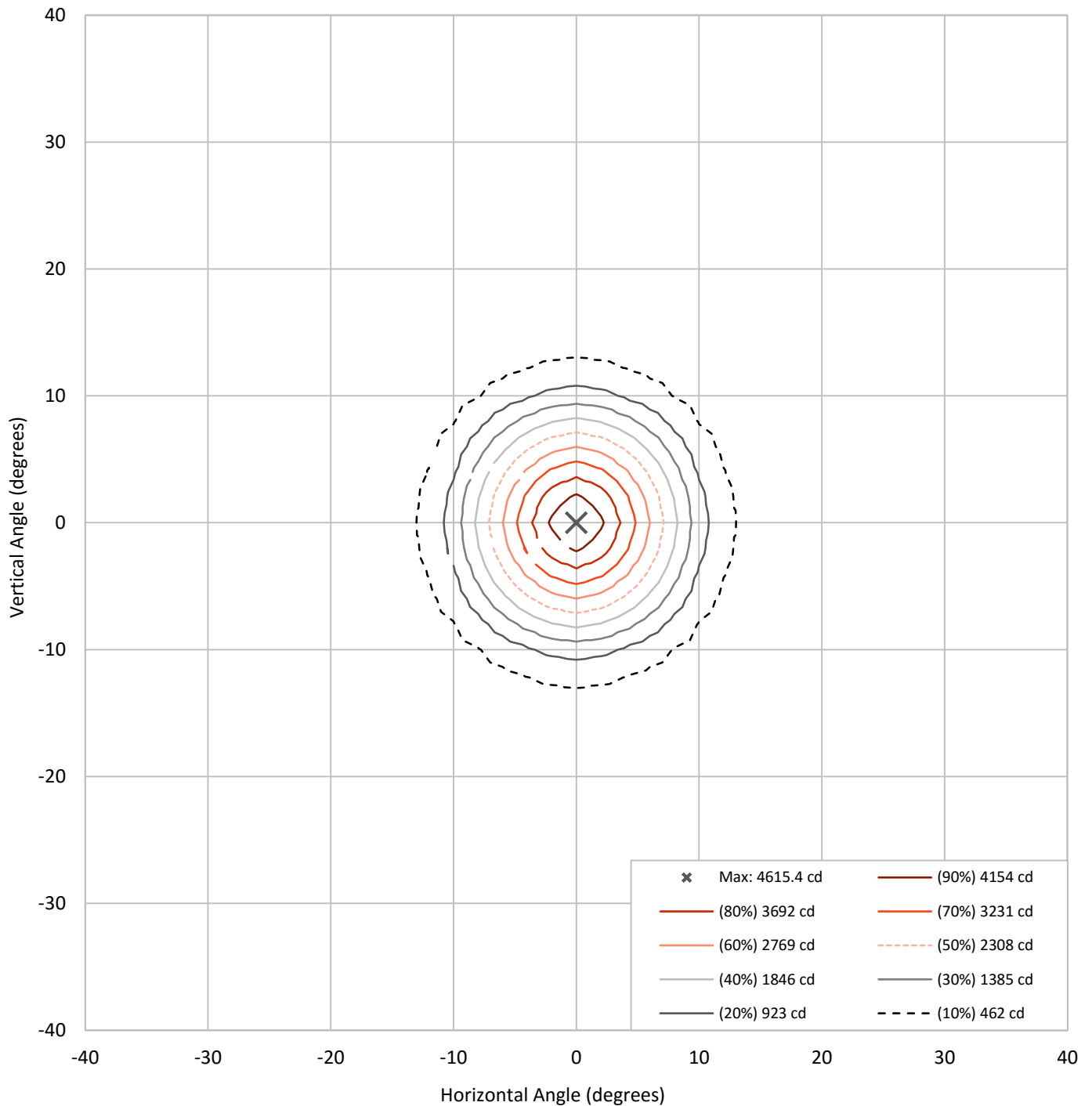
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	360.8 lumens	Max Intensity:	4615.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	36.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.2°H x 14.2°V	Field Angle (10%):	25.2°H x 25.2°V
Beam Lumens:	146.6 lumens	Field Lumens:	274.8 lumens
Beam Efficiency:	40.6%	Field Efficiency:	76.2%

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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

Iso-Candela Plot



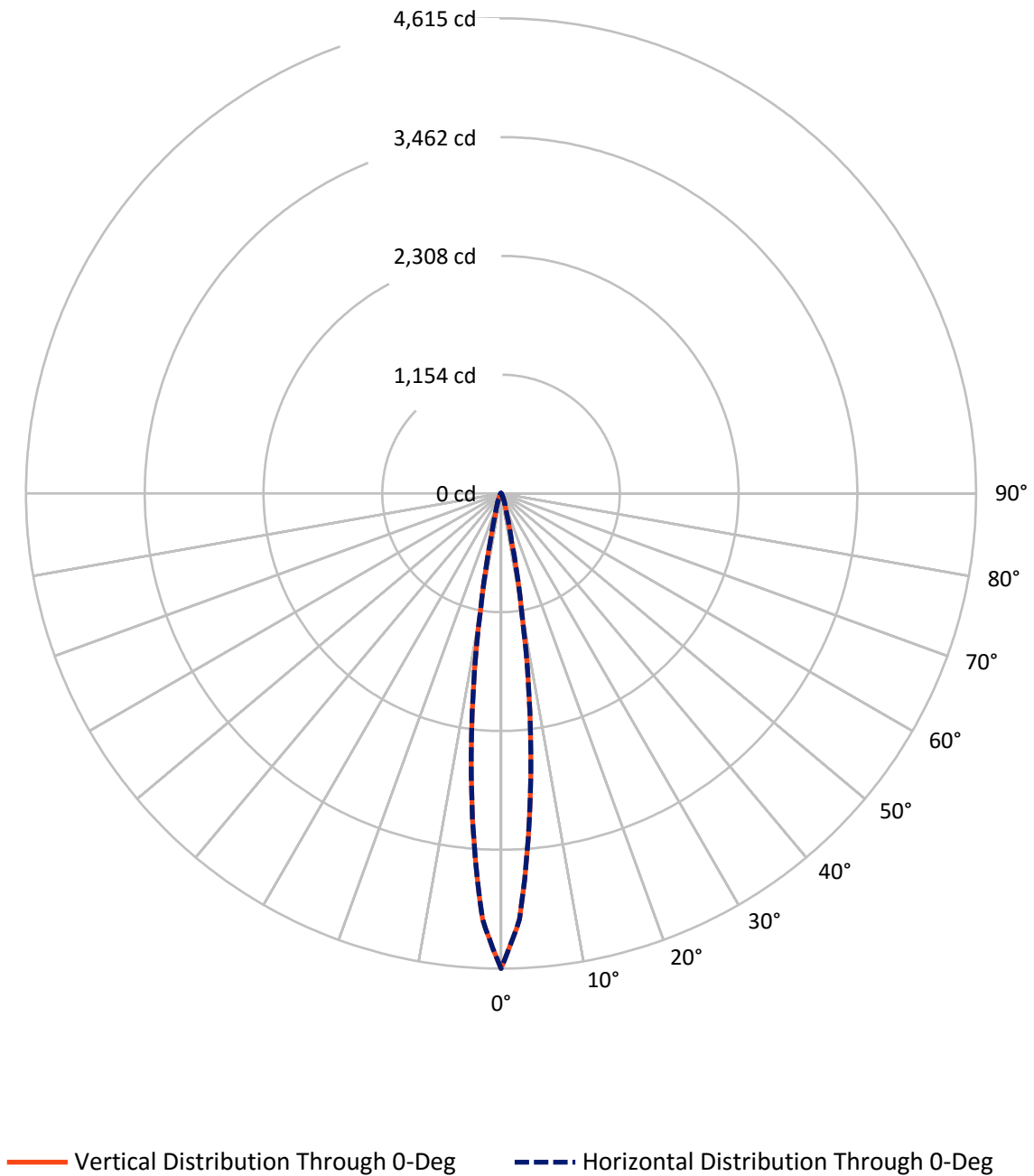
REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	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	0.1	0.1	0.1	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	
60		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		
50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.0		
30	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5	1.5	0.8	0.3	0.1	0.1	0.0	0.0	
20		0.0	0.0	0.1	0.2	0.7	2.9	8.2	8.2	2.9	0.7	0.2	0.1	0.0		
10	0.0	0.0	0.1	0.1	0.2	1.4	8.0	63.4	63.4	8.0	1.4	0.2	0.1	0.1	0.0	
0		0.0	0.1	0.1	0.2	1.4	8.0	63.4	63.4	8.0	1.4	0.2	0.1	0.1		
-10	0.0	0.0	0.0	0.1	0.2	0.7	2.9	8.2	8.2	2.9	0.7	0.2	0.1	0.0	0.0	
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.5	1.5	0.8	0.3	0.1	0.1	0.0		
-30	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	
-40		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0		
-50	0.0	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	
-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		
-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	
-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		
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

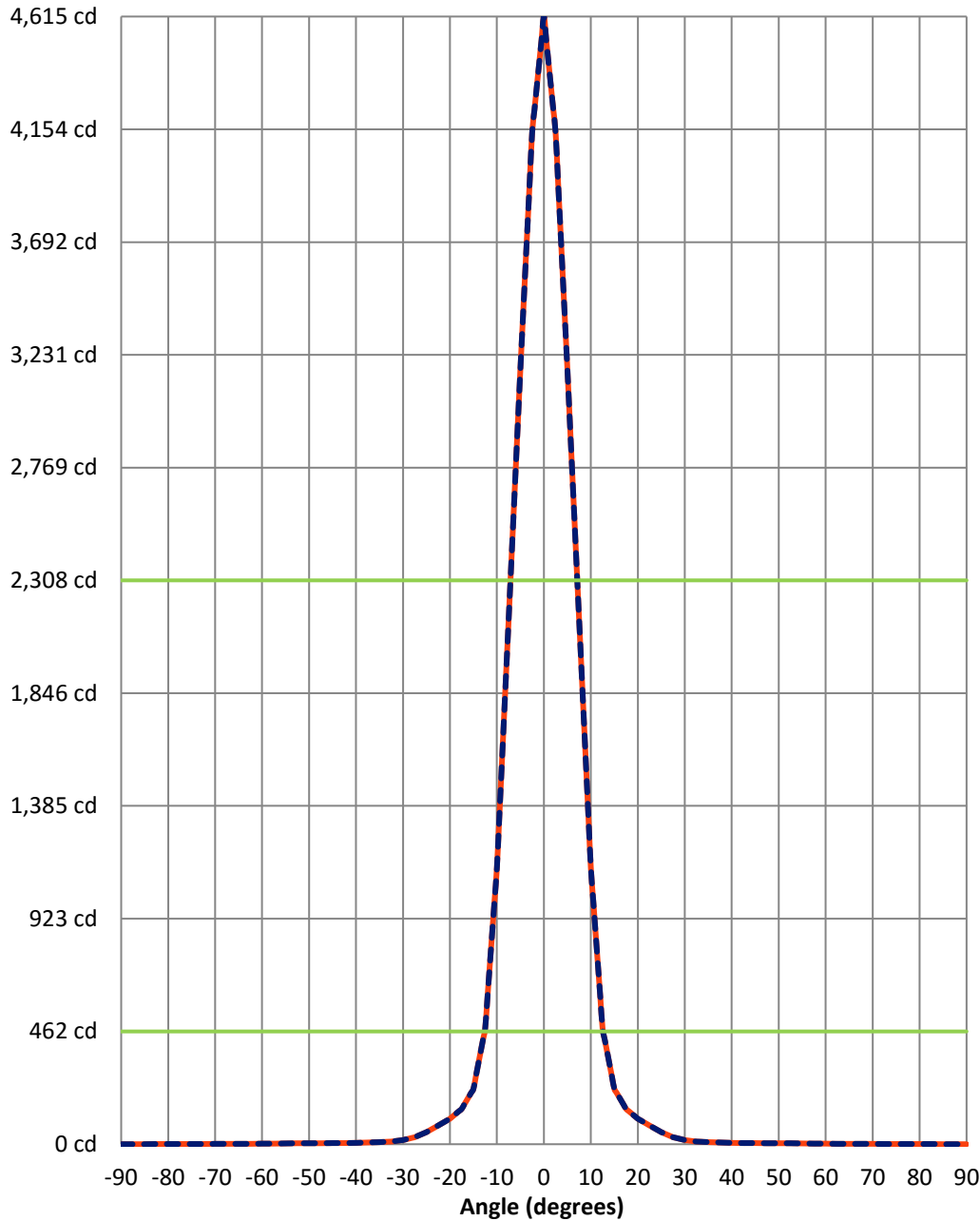
REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 14.2°
V Angle: 14.2°
Lumens: 146.6
Efficiency: 40.6%

Field:
H Angle: 25.2°
V Angle: 25.2°
Lumens: 274.8
Efficiency: 76.2%

Spill:
Lumens: 86
Efficiency: 23.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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	1	1
70°	0	0	0	0	0	0	0	0	1	1	1
67.5°	0	0	0	0	0	0	0	1	1	1	1
65°	0	0	0	0	0	0	0	1	1	1	1
62.5°	0	0	0	0	0	0	1	1	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	0	1	1	1	1	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	0	0	0	1	1	1	1	1	1
50°	0	0	0	0	0	1	1	1	1	1	1
47.5°	0	0	0	0	1	1	1	1	1	1	1
45°	0	0	0	0	1	1	1	1	1	1	1
42.5°	0	0	0	0	1	1	1	1	1	1	1
40°	0	0	0	0	1	1	1	1	1	1	1
37.5°	0	0	0	0	1	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	1	2
30°	0	0	0	0	1	1	1	1	1	1	2
27.5°	0	0	0	1	1	1	1	1	1	1	2
25°	0	0	0	1	1	1	1	1	1	2	2
22.5°	0	0	0	1	1	1	1	1	1	2	2
20°	0	0	0	1	1	1	1	1	1	2	2
17.5°	0	0	0	1	1	1	1	1	1	2	2
15°	0	0	0	1	1	1	1	1	1	2	2
12.5°	0	0	0	1	1	1	1	1	1	2	2
10°	0	0	0	1	1	1	1	1	1	2	2
7.5°	0	0	0	1	1	1	1	1	1	2	2
5°	0	0	0	1	1	1	1	1	1	2	2
2.5°	0	0	0	1	1	1	1	1	1	2	2
0°	0	0	0	1	1	1	1	1	2	2	2
-2.5°	0	0	0	1	1	1	1	1	1	2	2
-5°	0	0	0	1	1	1	1	1	1	2	2
-7.5°	0	0	0	1	1	1	1	1	1	2	2
-10°	0	0	0	1	1	1	1	1	1	2	2
-12.5°	0	0	0	1	1	1	1	1	1	2	2
-15°	0	0	0	1	1	1	1	1	1	2	2
-17.5°	0	0	0	1	1	1	1	1	1	2	2
-20°	0	0	0	1	1	1	1	1	1	2	2



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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	1	1	1	1	1	1	2	2
-25°	0	0	0	1	1	1	1	1	1	2	2
-27.5°	0	0	0	1	1	1	1	1	1	1	2
-30°	0	0	0	0	1	1	1	1	1	1	2
-32.5°	0	0	0	0	1	1	1	1	1	1	2
-35°	0	0	0	0	1	1	1	1	1	1	2
-37.5°	0	0	0	0	1	1	1	1	1	1	1
-40°	0	0	0	0	1	1	1	1	1	1	1
-42.5°	0	0	0	0	1	1	1	1	1	1	1
-45°	0	0	0	0	1	1	1	1	1	1	1
-47.5°	0	0	0	0	1	1	1	1	1	1	1
-50°	0	0	0	0	0	1	1	1	1	1	1
-52.5°	0	0	0	0	0	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	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	1	1	1	1	1
-65°	0	0	0	0	0	0	0	1	1	1	1
-67.5°	0	0	0	0	0	0	0	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	1	1
-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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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	1	1	1	1	1
77.5°	0	0	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
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	2	2
60°	1	1	1	1	1	1	1	2	2	2	2
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	1	1	2	2	2	2	2	2	2
52.5°	1	1	1	2	2	2	2	2	2	2	2
50°	1	1	2	2	2	2	2	2	2	2	2
47.5°	1	1	2	2	2	2	2	2	2	2	2
45°	1	2	2	2	2	2	2	2	2	2	3
42.5°	1	2	2	2	2	2	2	2	2	3	3
40°	2	2	2	2	2	2	2	2	3	3	4
37.5°	2	2	2	2	2	2	2	3	3	4	4
35°	2	2	2	2	2	2	3	3	4	4	4
32.5°	2	2	2	2	2	2	3	4	4	4	4
30°	2	2	2	2	2	3	3	4	4	4	4
27.5°	2	2	2	2	2	3	4	4	4	4	5
25°	2	2	2	2	3	3	4	4	4	4	5
22.5°	2	2	2	2	3	4	4	4	4	5	5
20°	2	2	2	2	3	4	4	4	4	5	5
17.5°	2	2	2	3	3	4	4	4	5	5	5
15°	2	2	2	3	3	4	4	4	5	5	5
12.5°	2	2	2	3	4	4	4	4	5	5	6
10°	2	2	2	3	4	4	4	4	5	5	6
7.5°	2	2	2	3	4	4	4	4	5	5	7
5°	2	2	2	3	4	4	4	5	5	5	7
2.5°	2	2	2	3	4	4	4	5	5	5	7
0°	2	2	2	3	4	4	4	5	5	5	7
-2.5°	2	2	2	3	4	4	4	5	5	5	7
-5°	2	2	2	3	4	4	4	5	5	5	7
-7.5°	2	2	2	3	4	4	4	4	5	5	7
-10°	2	2	2	3	4	4	4	4	5	5	6
-12.5°	2	2	2	3	4	4	4	4	5	5	6
-15°	2	2	2	3	3	4	4	4	5	5	5
-17.5°	2	2	2	3	3	4	4	4	5	5	5
-20°	2	2	2	2	3	4	4	4	4	5	5



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2	2	2	2	3	4	4	4	4	5	5
-25°	2	2	2	2	3	3	4	4	4	4	5
-27.5°	2	2	2	2	2	3	4	4	4	4	5
-30°	2	2	2	2	2	3	3	4	4	4	4
-32.5°	2	2	2	2	2	2	3	4	4	4	4
-35°	2	2	2	2	2	2	3	3	4	4	4
-37.5°	2	2	2	2	2	2	2	3	3	4	4
-40°	2	2	2	2	2	2	2	2	3	3	4
-42.5°	1	2	2	2	2	2	2	2	2	3	3
-45°	1	2	2	2	2	2	2	2	2	2	3
-47.5°	1	1	2	2	2	2	2	2	2	2	2
-50°	1	1	2	2	2	2	2	2	2	2	2
-52.5°	1	1	1	2	2	2	2	2	2	2	2
-55°	1	1	1	1	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	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	1	2	2
-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	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	0	0	1	1	1	1	1	1	1	1	1
-80°	0	0	0	0	0	0	1	1	1	1	1
-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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	3	3	3	3
52.5°	2	2	2	2	3	3	3	3	3	4	4
50°	2	2	3	3	3	4	4	4	4	4	4
47.5°	3	3	3	4	4	4	4	4	4	4	4
45°	3	4	4	4	4	4	4	4	4	4	4
42.5°	4	4	4	4	4	4	4	5	5	5	5
40°	4	4	4	4	4	5	5	5	5	5	5
37.5°	4	4	4	5	5	5	5	5	5	6	6
35°	4	4	5	5	5	5	6	6	7	7	8
32.5°	4	5	5	5	5	6	7	8	8	9	10
30°	5	5	5	6	6	7	8	9	10	11	13
27.5°	5	5	6	7	8	9	10	11	14	17	21
25°	5	5	6	8	9	10	13	17	22	27	34
22.5°	5	6	7	9	10	14	18	25	34	45	55
20°	6	7	8	10	13	18	26	38	51	66	79
17.5°	6	8	9	11	17	25	38	54	72	89	103
15°	7	8	10	14	22	34	51	72	92	113	137
12.5°	7	9	11	17	27	45	66	89	113	143	195
10°	8	10	13	21	34	55	79	103	137	195	284
7.5°	8	10	15	24	41	64	90	120	170	255	477
5°	8	10	16	27	46	71	98	134	200	346	758
2.5°	8	11	17	28	48	75	103	142	220	434	1030
0°	9	11	17	29	49	77	104	145	226	474	1131
-2.5°	8	11	17	28	48	75	103	142	220	434	1030
-5°	8	10	16	27	46	71	98	134	200	346	758
-7.5°	8	10	15	24	41	64	90	120	170	255	477
-10°	8	10	13	21	34	55	79	103	137	195	284
-12.5°	7	9	11	17	27	45	66	89	113	143	195
-15°	7	8	10	14	22	34	51	72	92	113	137
-17.5°	6	8	9	11	17	25	38	54	72	89	103
-20°	6	7	8	10	13	18	26	38	51	66	79



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5	6	7	9	10	14	18	25	34	45	55
-25°	5	5	6	8	9	10	13	17	22	27	34
-27.5°	5	5	6	7	8	9	10	11	14	17	21
-30°	5	5	5	6	6	7	8	9	10	11	13
-32.5°	4	5	5	5	5	6	7	8	8	9	10
-35°	4	4	5	5	5	5	6	6	7	7	8
-37.5°	4	4	4	5	5	5	5	5	5	6	6
-40°	4	4	4	4	4	5	5	5	5	5	5
-42.5°	4	4	4	4	4	4	4	5	5	5	5
-45°	3	4	4	4	4	4	4	4	4	4	4
-47.5°	3	3	3	4	4	4	4	4	4	4	4
-50°	2	2	3	3	3	4	4	4	4	4	4
-52.5°	2	2	2	2	3	3	3	3	3	4	4
-55°	2	2	2	2	2	2	2	3	3	3	3
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	1	1	1	2	2	2	2	2	2	2
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	0	1	1	1	1	1	1	1	1
-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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	2	1	1	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	4	4	4	4	4	4	4	4	4	3	3
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	4	4	4	4	4	4	4	4	4	4	4
45°	4	5	5	5	5	5	4	4	4	4	4
42.5°	5	5	5	5	5	5	5	5	5	5	5
40°	5	5	5	5	5	5	5	5	5	5	5
37.5°	7	7	7	7	7	7	7	6	6	5	5
35°	8	8	8	9	8	8	8	8	7	7	6
32.5°	10	10	11	11	11	10	10	10	9	8	8
30°	15	16	17	17	17	16	15	13	11	10	9
27.5°	24	27	28	29	28	27	24	21	17	14	11
25°	41	46	48	49	48	46	41	34	27	22	17
22.5°	64	71	75	77	75	71	64	55	45	34	25
20°	90	98	103	104	103	98	90	79	66	51	38
17.5°	120	134	142	145	142	134	120	103	89	72	54
15°	170	200	220	226	220	200	170	137	113	92	72
12.5°	255	346	434	474	434	346	255	195	143	113	89
10°	477	758	1030	1131	1030	758	477	284	195	137	103
7.5°	935	1519	1979	2149	1979	1519	935	477	255	170	120
5°	1519	2331	2935	3175	2935	2331	1519	758	346	200	134
2.5°	1979	2935	3766	4140	3766	2935	1979	1030	434	220	142
0°	2149	3175	4140	4615	4140	3175	2149	1131	474	226	145
-2.5°	1979	2935	3766	4140	3766	2935	1979	1030	434	220	142
-5°	1519	2331	2935	3175	2935	2331	1519	758	346	200	134
-7.5°	935	1519	1979	2149	1979	1519	935	477	255	170	120
-10°	477	758	1030	1131	1030	758	477	284	195	137	103
-12.5°	255	346	434	474	434	346	255	195	143	113	89
-15°	170	200	220	226	220	200	170	137	113	92	72
-17.5°	120	134	142	145	142	134	120	103	89	72	54
-20°	90	98	103	104	103	98	90	79	66	51	38



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	64	71	75	77	75	71	64	55	45	34	25
-25°	41	46	48	49	48	46	41	34	27	22	17
-27.5°	24	27	28	29	28	27	24	21	17	14	11
-30°	15	16	17	17	17	16	15	13	11	10	9
-32.5°	10	10	11	11	11	10	10	10	9	8	8
-35°	8	8	8	9	8	8	8	8	7	7	6
-37.5°	7	7	7	7	7	7	7	6	6	5	5
-40°	5	5	5	5	5	5	5	5	5	5	5
-42.5°	5	5	5	5	5	5	5	5	5	5	5
-45°	4	5	5	5	5	5	4	4	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	4	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	3	3
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	2	2	2	2	2	2	2	2	2	2	2
-60°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	1	1	1	2	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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°	1	1	1	1	0	0	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	1	1
67.5°	2	2	2	1	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	2	1	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	1	1
60°	2	2	2	2	2	2	2	2	2	2	2
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	2	2	2	2	2	2	2	2
50°	4	4	3	3	3	2	2	2	2	2	2
47.5°	4	4	4	4	3	3	3	2	2	2	2
45°	4	4	4	4	4	4	3	3	2	2	2
42.5°	4	4	4	4	4	4	4	3	3	2	2
40°	5	5	4	4	4	4	4	4	3	3	2
37.5°	5	5	5	5	4	4	4	4	4	3	3
35°	6	5	5	5	5	4	4	4	4	4	3
32.5°	7	6	5	5	5	5	4	4	4	4	4
30°	8	7	6	6	5	5	5	4	4	4	4
27.5°	10	9	8	7	6	5	5	5	4	4	4
25°	13	10	9	8	6	5	5	5	4	4	4
22.5°	18	14	10	9	7	6	5	5	5	4	4
20°	26	18	13	10	8	7	6	5	5	4	4
17.5°	38	25	17	11	9	8	6	5	5	5	4
15°	51	34	22	14	10	8	7	5	5	5	4
12.5°	66	45	27	17	11	9	7	6	5	5	4
10°	79	55	34	21	13	10	8	6	5	5	4
7.5°	90	64	41	24	15	10	8	7	5	5	4
5°	98	71	46	27	16	10	8	7	5	5	5
2.5°	103	75	48	28	17	11	8	7	5	5	5
0°	104	77	49	29	17	11	9	7	5	5	5
-2.5°	103	75	48	28	17	11	8	7	5	5	5
-5°	98	71	46	27	16	10	8	7	5	5	5
-7.5°	90	64	41	24	15	10	8	7	5	5	4
-10°	79	55	34	21	13	10	8	6	5	5	4
-12.5°	66	45	27	17	11	9	7	6	5	5	4
-15°	51	34	22	14	10	8	7	5	5	5	4
-17.5°	38	25	17	11	9	8	6	5	5	5	4
-20°	26	18	13	10	8	7	6	5	5	4	4



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18	14	10	9	7	6	5	5	5	4	4
-25°	13	10	9	8	6	5	5	5	4	4	4
-27.5°	10	9	8	7	6	5	5	5	4	4	4
-30°	8	7	6	6	5	5	5	4	4	4	4
-32.5°	7	6	5	5	5	5	4	4	4	4	4
-35°	6	5	5	5	5	4	4	4	4	4	3
-37.5°	5	5	5	5	4	4	4	4	4	3	3
-40°	5	5	4	4	4	4	4	4	3	3	2
-42.5°	4	4	4	4	4	4	4	3	3	2	2
-45°	4	4	4	4	4	4	3	3	2	2	2
-47.5°	4	4	4	4	3	3	3	2	2	2	2
-50°	4	4	3	3	3	2	2	2	2	2	2
-52.5°	3	3	3	2	2	2	2	2	2	2	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°	2	2	2	2	2	2	2	2	2	2	2
-62.5°	2	2	2	2	2	2	2	2	2	1	1
-65°	2	2	2	2	2	2	2	1	1	1	1
-67.5°	2	2	2	1	1	1	1	1	1	1	1
-70°	1	1	1	1	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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°	1	0	0	0	0	0	0	0	0	0	0
77.5°	1	1	1	1	1	0	0	0	0	0	0
75°	1	1	1	1	1	1	1	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	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	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	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	1	1	1	1	1	1	1
50°	2	2	2	2	2	1	1	1	1	1	1
47.5°	2	2	2	2	2	1	1	1	1	1	1
45°	2	2	2	2	2	2	1	1	1	1	1
42.5°	2	2	2	2	2	2	1	1	1	1	1
40°	2	2	2	2	2	2	2	1	1	1	1
37.5°	2	2	2	2	2	2	2	1	1	1	1
35°	3	2	2	2	2	2	2	2	1	1	1
32.5°	3	2	2	2	2	2	2	2	1	1	1
30°	3	3	2	2	2	2	2	2	1	1	1
27.5°	4	3	2	2	2	2	2	2	1	1	1
25°	4	3	3	2	2	2	2	2	2	1	1
22.5°	4	4	3	2	2	2	2	2	2	1	1
20°	4	4	3	2	2	2	2	2	2	1	1
17.5°	4	4	3	3	2	2	2	2	2	1	1
15°	4	4	3	3	2	2	2	2	2	1	1
12.5°	4	4	4	3	2	2	2	2	2	1	1
10°	4	4	4	3	2	2	2	2	2	1	1
7.5°	4	4	4	3	2	2	2	2	2	1	1
5°	4	4	4	3	2	2	2	2	2	1	1
2.5°	4	4	4	3	2	2	2	2	2	1	1
0°	4	4	4	3	2	2	2	2	2	2	1
-2.5°	4	4	4	3	2	2	2	2	2	1	1
-5°	4	4	4	3	2	2	2	2	2	1	1
-7.5°	4	4	4	3	2	2	2	2	2	1	1
-10°	4	4	4	3	2	2	2	2	2	1	1
-12.5°	4	4	4	3	2	2	2	2	2	1	1
-15°	4	4	3	3	2	2	2	2	2	1	1
-17.5°	4	4	3	3	2	2	2	2	2	1	1
-20°	4	4	3	2	2	2	2	2	2	1	1



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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	4	3	2	2	2	2	2	2	1	1
-25°	4	3	3	2	2	2	2	2	2	1	1
-27.5°	4	3	2	2	2	2	2	2	1	1	1
-30°	3	3	2	2	2	2	2	2	1	1	1
-32.5°	3	2	2	2	2	2	2	2	1	1	1
-35°	3	2	2	2	2	2	2	2	1	1	1
-37.5°	2	2	2	2	2	2	2	1	1	1	1
-40°	2	2	2	2	2	2	2	1	1	1	1
-42.5°	2	2	2	2	2	2	1	1	1	1	1
-45°	2	2	2	2	2	2	1	1	1	1	1
-47.5°	2	2	2	2	2	1	1	1	1	1	1
-50°	2	2	2	2	2	1	1	1	1	1	1
-52.5°	2	2	2	2	1	1	1	1	1	1	1
-55°	2	2	2	1	1	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	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°	1	1	1	1	1	1	1	1	1	0	0
-75°	1	1	1	1	1	1	1	0	0	0	0
-77.5°	1	1	1	1	1	0	0	0	0	0	0
-80°	1	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: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-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°	1	0	0	0	0	0	0
60°	1	0	0	0	0	0	0
57.5°	1	1	0	0	0	0	0
55°	1	1	0	0	0	0	0
52.5°	1	1	0	0	0	0	0
50°	1	1	0	0	0	0	0
47.5°	1	1	1	0	0	0	0
45°	1	1	1	0	0	0	0
42.5°	1	1	1	0	0	0	0
40°	1	1	1	0	0	0	0
37.5°	1	1	1	0	0	0	0
35°	1	1	1	0	0	0	0
32.5°	1	1	1	0	0	0	0
30°	1	1	1	0	0	0	0
27.5°	1	1	1	1	0	0	0
25°	1	1	1	1	0	0	0
22.5°	1	1	1	1	0	0	0
20°	1	1	1	1	0	0	0
17.5°	1	1	1	1	0	0	0
15°	1	1	1	1	0	0	0
12.5°	1	1	1	1	0	0	0
10°	1	1	1	1	0	0	0
7.5°	1	1	1	1	0	0	0
5°	1	1	1	1	0	0	0
2.5°	1	1	1	1	0	0	0
0°	1	1	1	1	0	0	0
-2.5°	1	1	1	1	0	0	0
-5°	1	1	1	1	0	0	0
-7.5°	1	1	1	1	0	0	0
-10°	1	1	1	1	0	0	0
-12.5°	1	1	1	1	0	0	0
-15°	1	1	1	1	0	0	0
-17.5°	1	1	1	1	0	0	0
-20°	1	1	1	1	0	0	0



REPORT NUMBER: P220310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1	1	1	1	0	0	0
-25°	1	1	1	1	0	0	0
-27.5°	1	1	1	1	0	0	0
-30°	1	1	1	0	0	0	0
-32.5°	1	1	1	0	0	0	0
-35°	1	1	1	0	0	0	0
-37.5°	1	1	1	0	0	0	0
-40°	1	1	1	0	0	0	0
-42.5°	1	1	1	0	0	0	0
-45°	1	1	1	0	0	0	0
-47.5°	1	1	1	0	0	0	0
-50°	1	1	0	0	0	0	0
-52.5°	1	1	0	0	0	0	0
-55°	1	1	0	0	0	0	0
-57.5°	1	1	0	0	0	0	0
-60°	1	0	0	0	0	0	0
-62.5°	1	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)