

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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220312 (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]-LED4097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

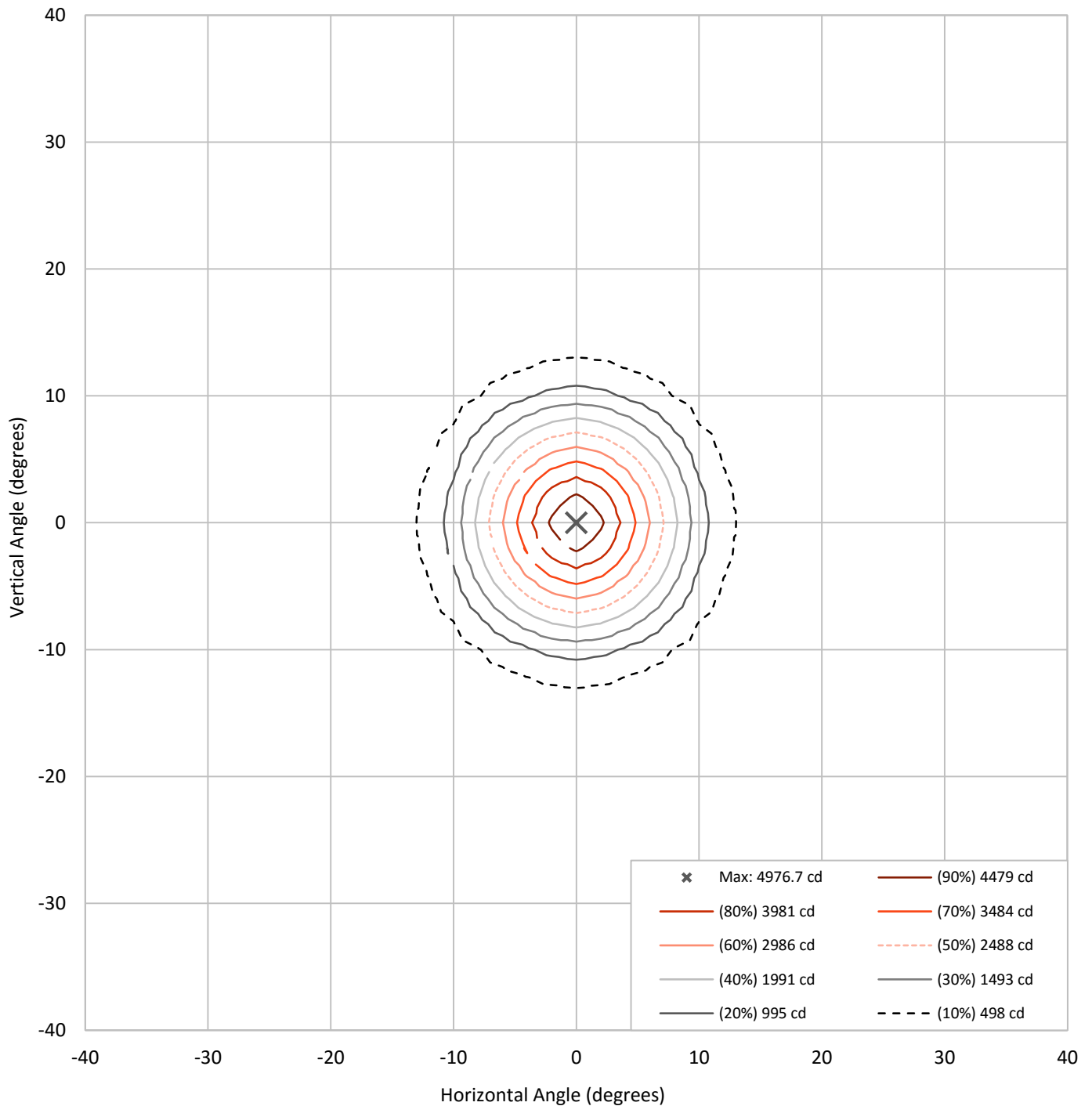
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	389.1 lumens	Max Intensity:	4976.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	38.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.2°H x 14.2°V	Field Angle (10%):	25.2°H x 25.2°V
Beam Lumens:	158.1 lumens	Field Lumens:	296.3 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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-S-WT-L1-UNV

Iso-Candela Plot



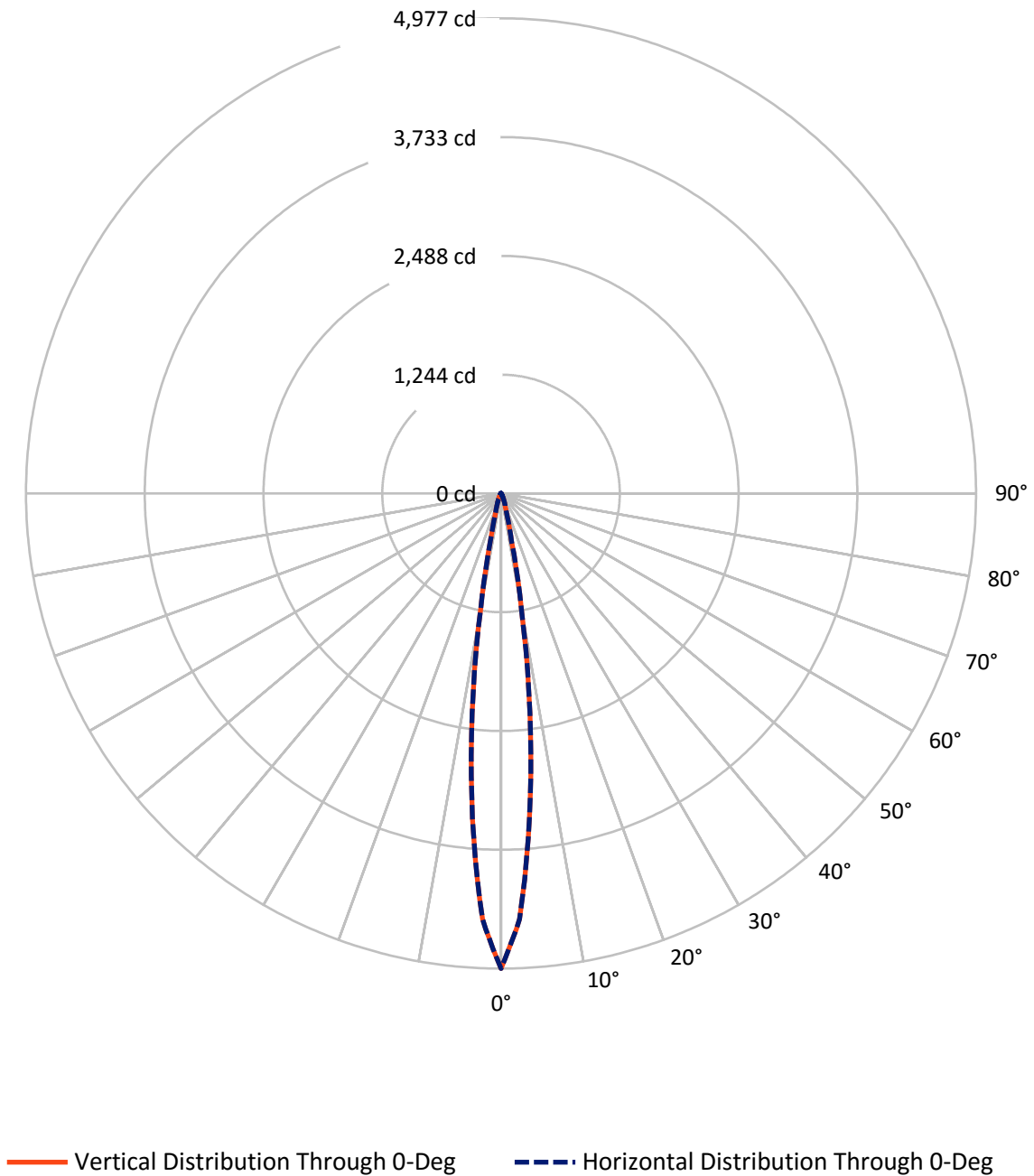
REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									
80	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									
70	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			
60		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	0.1	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	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0				
30	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6	1.6	0.8	0.3	0.1	0.1	0.0	0.0	0.0		
20		0.0	0.1	0.1	0.2	0.8	3.1	8.9	8.9	3.1	0.8	0.2	0.1	0.1	0.0			
10	0.0	0.0	0.1	0.1	0.2	1.5	8.7	68.4	68.4	8.7	1.5	0.2	0.1	0.1	0.0	0.0		
0		0.0	0.1	0.1	0.2	1.5	8.7	68.4	68.4	8.7	1.5	0.2	0.1	0.1	0.0			
-10	0.0	0.0	0.1	0.1	0.2	0.8	3.1	8.9	8.9	3.1	0.8	0.2	0.1	0.1	0.0	0.0		
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.6	1.6	0.8	0.3	0.1	0.1	0.0	0.0			
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.0	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	0.1	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	0.1	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	0.1	0.1	0.1	0.1	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				
-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	0.0	0.0

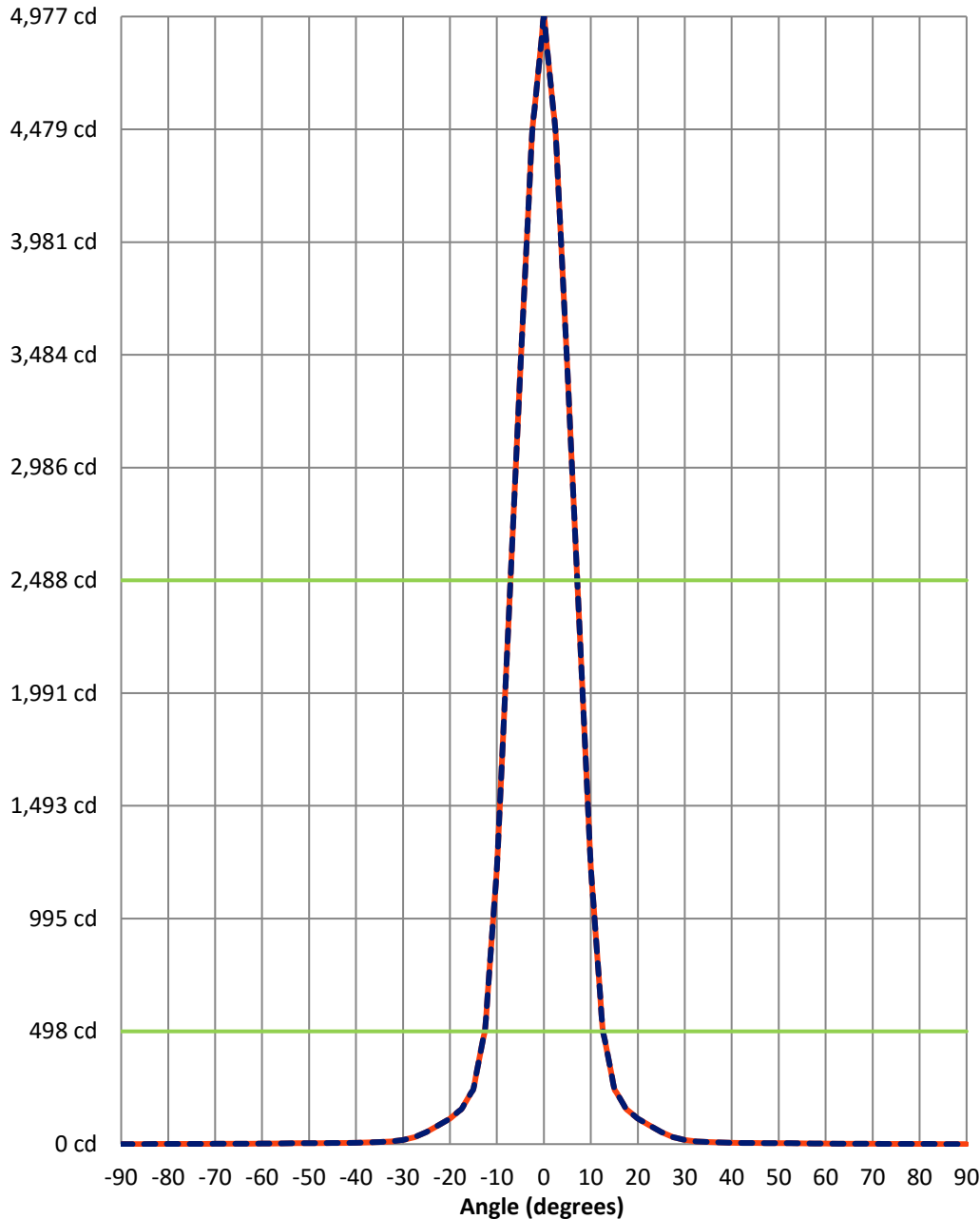
REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 14.2°
 V Angle: 14.2°
 Lumens: 158.1
 Efficiency: 40.6%

Field:
 H Angle: 25.2°
 V Angle: 25.2°
 Lumens: 296.3
 Efficiency: 76.2%

Spill:
 Lumens: 92.8
 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]-LED4097-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	2
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	2	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	2	2	2
10°	0	0	0	1	1	1	1	1	2	2	2
7.5°	0	0	0	1	1	1	1	1	2	2	2
5°	0	0	0	1	1	1	1	1	2	2	2
2.5°	0	0	0	1	1	1	1	1	2	2	2
0°	0	0	0	1	1	1	1	1	2	2	2
-2.5°	0	0	0	1	1	1	1	1	2	2	2
-5°	0	0	0	1	1	1	1	1	2	2	2
-7.5°	0	0	0	1	1	1	1	1	2	2	2
-10°	0	0	0	1	1	1	1	1	2	2	2
-12.5°	0	0	0	1	1	1	1	1	2	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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	2	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	2
-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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	2
62.5°	1	1	1	1	1	1	1	1	2	2	2
60°	1	1	1	1	1	1	2	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	3
47.5°	1	2	2	2	2	2	2	2	2	3	3
45°	1	2	2	2	2	2	2	3	3	3	3
42.5°	2	2	2	2	2	2	2	3	3	3	4
40°	2	2	2	2	2	2	3	3	3	4	4
37.5°	2	2	2	2	2	3	3	3	4	4	4
35°	2	2	2	2	2	3	3	3	4	4	4
32.5°	2	2	2	2	3	3	3	4	4	4	4
30°	2	2	2	2	3	3	4	4	4	4	4
27.5°	2	2	2	3	3	3	4	4	4	4	5
25°	2	2	2	3	3	4	4	4	4	5	5
22.5°	2	2	2	3	3	4	4	4	4	5	5
20°	2	2	3	3	3	4	4	4	5	5	5
17.5°	2	2	3	3	3	4	4	4	5	5	6
15°	2	2	3	3	4	4	4	4	5	5	6
12.5°	2	2	3	3	4	4	4	5	5	5	6
10°	2	2	3	3	4	4	4	5	5	5	7
7.5°	2	2	3	3	4	4	4	5	5	6	7
5°	2	2	3	3	4	4	4	5	5	6	7
2.5°	2	2	3	3	4	4	4	5	5	6	7
0°	2	3	3	3	4	4	4	5	5	6	8
-2.5°	2	2	3	3	4	4	4	5	5	6	7
-5°	2	2	3	3	4	4	4	5	5	6	7
-7.5°	2	2	3	3	4	4	4	5	5	6	7
-10°	2	2	3	3	4	4	4	5	5	5	7
-12.5°	2	2	3	3	4	4	4	5	5	5	6
-15°	2	2	3	3	4	4	4	4	5	5	6
-17.5°	2	2	3	3	3	4	4	4	5	5	6
-20°	2	2	3	3	3	4	4	4	5	5	5



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	3	3	4	4	4	4	5	5
-25°	2	2	2	3	3	4	4	4	4	5	5
-27.5°	2	2	2	3	3	3	4	4	4	4	5
-30°	2	2	2	2	3	3	4	4	4	4	4
-32.5°	2	2	2	2	3	3	3	4	4	4	4
-35°	2	2	2	2	2	3	3	3	4	4	4
-37.5°	2	2	2	2	2	3	3	3	4	4	4
-40°	2	2	2	2	2	2	3	3	3	4	4
-42.5°	2	2	2	2	2	2	2	3	3	3	4
-45°	1	2	2	2	2	2	2	3	3	3	3
-47.5°	1	2	2	2	2	2	2	2	2	2	3
-50°	1	1	2	2	2	2	2	2	2	2	3
-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	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	1	2	2	2
-65°	1	1	1	1	1	1	1	1	1	1	2
-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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	2	2
67.5°	1	1	1	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	3	3	3	3	3
55°	2	2	2	3	3	3	3	3	3	3	3
52.5°	2	3	3	3	3	3	3	3	4	4	4
50°	3	3	3	3	4	4	4	4	4	4	4
47.5°	3	3	4	4	4	4	4	4	4	4	4
45°	3	4	4	4	4	4	4	4	4	5	5
42.5°	4	4	4	4	4	4	5	5	5	5	5
40°	4	4	4	4	5	5	5	5	5	5	5
37.5°	4	4	4	5	5	5	5	6	6	6	7
35°	4	5	5	5	5	6	6	7	7	8	8
32.5°	5	5	5	5	6	7	7	8	9	10	10
30°	5	5	5	6	7	8	9	10	11	12	14
27.5°	5	5	6	7	8	9	11	12	16	18	23
25°	5	6	7	8	9	11	14	18	24	29	37
22.5°	6	7	8	9	11	15	20	27	37	48	59
20°	6	7	9	11	14	20	28	41	55	71	85
17.5°	7	8	10	12	18	27	41	59	78	96	112
15°	7	9	11	16	24	37	55	78	99	122	148
12.5°	8	10	12	18	29	48	71	96	122	154	210
10°	8	10	14	23	37	59	85	112	148	210	306
7.5°	9	11	16	26	44	69	97	130	183	275	515
5°	9	11	17	29	49	76	105	144	216	373	818
2.5°	9	12	18	30	52	81	111	153	237	468	1111
0°	9	12	18	31	53	83	113	156	244	511	1220
-2.5°	9	12	18	30	52	81	111	153	237	468	1111
-5°	9	11	17	29	49	76	105	144	216	373	818
-7.5°	9	11	16	26	44	69	97	130	183	275	515
-10°	8	10	14	23	37	59	85	112	148	210	306
-12.5°	8	10	12	18	29	48	71	96	122	154	210
-15°	7	9	11	16	24	37	55	78	99	122	148
-17.5°	7	8	10	12	18	27	41	59	78	96	112
-20°	6	7	9	11	14	20	28	41	55	71	85



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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°	6	7	8	9	11	15	20	27	37	48	59
-25°	5	6	7	8	9	11	14	18	24	29	37
-27.5°	5	5	6	7	8	9	11	12	16	18	23
-30°	5	5	5	6	7	8	9	10	11	12	14
-32.5°	5	5	5	5	6	7	7	8	9	10	10
-35°	4	5	5	5	5	6	6	7	7	8	8
-37.5°	4	4	4	5	5	5	5	6	6	6	7
-40°	4	4	4	4	5	5	5	5	5	5	5
-42.5°	4	4	4	4	4	4	5	5	5	5	5
-45°	3	4	4	4	4	4	4	4	4	5	5
-47.5°	3	3	4	4	4	4	4	4	4	4	4
-50°	3	3	3	3	4	4	4	4	4	4	4
-52.5°	2	3	3	3	3	3	3	3	4	4	4
-55°	2	2	2	3	3	3	3	3	3	3	3
-57.5°	2	2	2	2	2	2	3	3	3	3	3
-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	2	2	2	2	2	2	2	2
-70°	1	1	1	1	1	1	1	1	1	2	2
-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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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°	2	2	2	2	2	2	2	2	2	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	3	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	4	4	4	4	4	4	4	4	4	4	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°	5	5	5	5	5	5	5	5	5	4	4
42.5°	5	5	5	5	5	5	5	5	5	5	5
40°	6	6	6	6	6	6	6	5	5	5	5
37.5°	7	7	7	8	7	7	7	7	6	6	6
35°	9	9	9	9	9	9	9	8	8	7	7
32.5°	11	11	12	12	12	11	11	10	10	9	8
30°	16	17	18	18	18	17	16	14	12	11	10
27.5°	26	29	30	31	30	29	26	23	18	16	12
25°	44	49	52	53	52	49	44	37	29	24	18
22.5°	69	76	81	83	81	76	69	59	48	37	27
20°	97	105	111	113	111	105	97	85	71	55	41
17.5°	130	144	153	156	153	144	130	112	96	78	59
15°	183	216	237	244	237	216	183	148	122	99	78
12.5°	275	373	468	511	468	373	275	210	154	122	96
10°	515	818	1111	1220	1111	818	515	306	210	148	112
7.5°	1008	1638	2134	2317	2134	1638	1008	515	275	183	130
5°	1638	2513	3165	3423	3165	2513	1638	818	373	216	144
2.5°	2134	3165	4061	4464	4061	3165	2134	1111	468	237	153
0°	2317	3423	4464	4977	4464	3423	2317	1220	511	244	156
-2.5°	2134	3165	4061	4464	4061	3165	2134	1111	468	237	153
-5°	1638	2513	3165	3423	3165	2513	1638	818	373	216	144
-7.5°	1008	1638	2134	2317	2134	1638	1008	515	275	183	130
-10°	515	818	1111	1220	1111	818	515	306	210	148	112
-12.5°	275	373	468	511	468	373	275	210	154	122	96
-15°	183	216	237	244	237	216	183	148	122	99	78
-17.5°	130	144	153	156	153	144	130	112	96	78	59
-20°	97	105	111	113	111	105	97	85	71	55	41



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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°	69	76	81	83	81	76	69	59	48	37	27
-25°	44	49	52	53	52	49	44	37	29	24	18
-27.5°	26	29	30	31	30	29	26	23	18	16	12
-30°	16	17	18	18	18	17	16	14	12	11	10
-32.5°	11	11	12	12	12	11	11	10	10	9	8
-35°	9	9	9	9	9	9	9	8	8	7	7
-37.5°	7	7	7	8	7	7	7	7	6	6	6
-40°	6	6	6	6	6	6	6	5	5	5	5
-42.5°	5	5	5	5	5	5	5	5	5	5	5
-45°	5	5	5	5	5	5	5	5	5	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	4	3
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	2	2	2	3	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°	2	2	2	2	2	2	2	2	2	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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	2	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	2	2	1	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	1
60°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	2	2	2	2	2	2	2
52.5°	3	3	3	3	3	3	2	2	2	2	2
50°	4	4	4	3	3	3	3	3	2	2	2
47.5°	4	4	4	4	4	3	3	3	3	2	2
45°	4	4	4	4	4	4	3	3	3	3	3
42.5°	5	4	4	4	4	4	4	4	3	3	3
40°	5	5	5	4	4	4	4	4	4	3	3
37.5°	5	5	5	5	4	4	4	4	4	4	3
35°	6	6	5	5	5	5	4	4	4	4	3
32.5°	7	7	6	5	5	5	5	4	4	4	4
30°	9	8	7	6	5	5	5	4	4	4	4
27.5°	11	9	8	7	6	5	5	5	4	4	4
25°	14	11	9	8	7	6	5	5	5	4	4
22.5°	20	15	11	9	8	7	6	5	5	4	4
20°	28	20	14	11	9	7	6	5	5	5	4
17.5°	41	27	18	12	10	8	7	6	5	5	4
15°	55	37	24	16	11	9	7	6	5	5	4
12.5°	71	48	29	18	12	10	8	6	5	5	5
10°	85	59	37	23	14	10	8	7	5	5	5
7.5°	97	69	44	26	16	11	9	7	6	5	5
5°	105	76	49	29	17	11	9	7	6	5	5
2.5°	111	81	52	30	18	12	9	7	6	5	5
0°	113	83	53	31	18	12	9	8	6	5	5
-2.5°	111	81	52	30	18	12	9	7	6	5	5
-5°	105	76	49	29	17	11	9	7	6	5	5
-7.5°	97	69	44	26	16	11	9	7	6	5	5
-10°	85	59	37	23	14	10	8	7	5	5	5
-12.5°	71	48	29	18	12	10	8	6	5	5	5
-15°	55	37	24	16	11	9	7	6	5	5	4
-17.5°	41	27	18	12	10	8	7	6	5	5	4
-20°	28	20	14	11	9	7	6	5	5	5	4



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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°	20	15	11	9	8	7	6	5	5	4	4
-25°	14	11	9	8	7	6	5	5	5	4	4
-27.5°	11	9	8	7	6	5	5	5	4	4	4
-30°	9	8	7	6	5	5	5	4	4	4	4
-32.5°	7	7	6	5	5	5	5	4	4	4	4
-35°	6	6	5	5	5	5	4	4	4	4	3
-37.5°	5	5	5	5	4	4	4	4	4	4	3
-40°	5	5	5	4	4	4	4	4	4	3	3
-42.5°	5	4	4	4	4	4	4	4	3	3	3
-45°	4	4	4	4	4	4	3	3	3	3	3
-47.5°	4	4	4	4	4	3	3	3	3	2	2
-50°	4	4	4	3	3	3	3	3	2	2	2
-52.5°	3	3	3	3	3	3	2	2	2	2	2
-55°	3	3	3	3	2	2	2	2	2	2	2
-57.5°	3	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	1
-65°	2	2	2	2	2	2	2	2	1	1	1
-67.5°	2	2	2	2	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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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°	2	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	2	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	2	1	1	1	1
40°	3	2	2	2	2	2	2	1	1	1	1
37.5°	3	3	2	2	2	2	2	2	1	1	1
35°	3	3	2	2	2	2	2	2	1	1	1
32.5°	3	3	3	2	2	2	2	2	1	1	1
30°	4	3	3	2	2	2	2	2	1	1	1
27.5°	4	3	3	3	2	2	2	2	2	1	1
25°	4	4	3	3	2	2	2	2	2	1	1
22.5°	4	4	3	3	2	2	2	2	2	1	1
20°	4	4	3	3	3	2	2	2	2	1	1
17.5°	4	4	3	3	3	2	2	2	2	1	1
15°	4	4	4	3	3	2	2	2	2	1	1
12.5°	4	4	4	3	3	2	2	2	2	2	1
10°	4	4	4	3	3	2	2	2	2	2	1
7.5°	4	4	4	3	3	2	2	2	2	2	1
5°	4	4	4	3	3	2	2	2	2	2	1
2.5°	4	4	4	3	3	2	2	2	2	2	1
0°	4	4	4	3	3	3	2	2	2	2	1
-2.5°	4	4	4	3	3	2	2	2	2	2	1
-5°	4	4	4	3	3	2	2	2	2	2	1
-7.5°	4	4	4	3	3	2	2	2	2	2	1
-10°	4	4	4	3	3	2	2	2	2	2	1
-12.5°	4	4	4	3	3	2	2	2	2	2	1
-15°	4	4	4	3	3	2	2	2	2	1	1
-17.5°	4	4	3	3	3	2	2	2	2	1	1
-20°	4	4	3	3	3	2	2	2	2	1	1



REPORT NUMBER: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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	3	2	2	2	2	2	1	1
-25°	4	4	3	3	2	2	2	2	2	1	1
-27.5°	4	3	3	3	2	2	2	2	2	1	1
-30°	4	3	3	2	2	2	2	2	1	1	1
-32.5°	3	3	3	2	2	2	2	2	1	1	1
-35°	3	3	2	2	2	2	2	2	1	1	1
-37.5°	3	3	2	2	2	2	2	2	1	1	1
-40°	3	2	2	2	2	2	2	1	1	1	1
-42.5°	2	2	2	2	2	2	2	1	1	1	1
-45°	2	2	2	2	2	2	1	1	1	1	1
-47.5°	2	2	2	2	2	2	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°	2	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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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: P220312 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4097-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)