

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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220311 (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]-LED3597-S-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

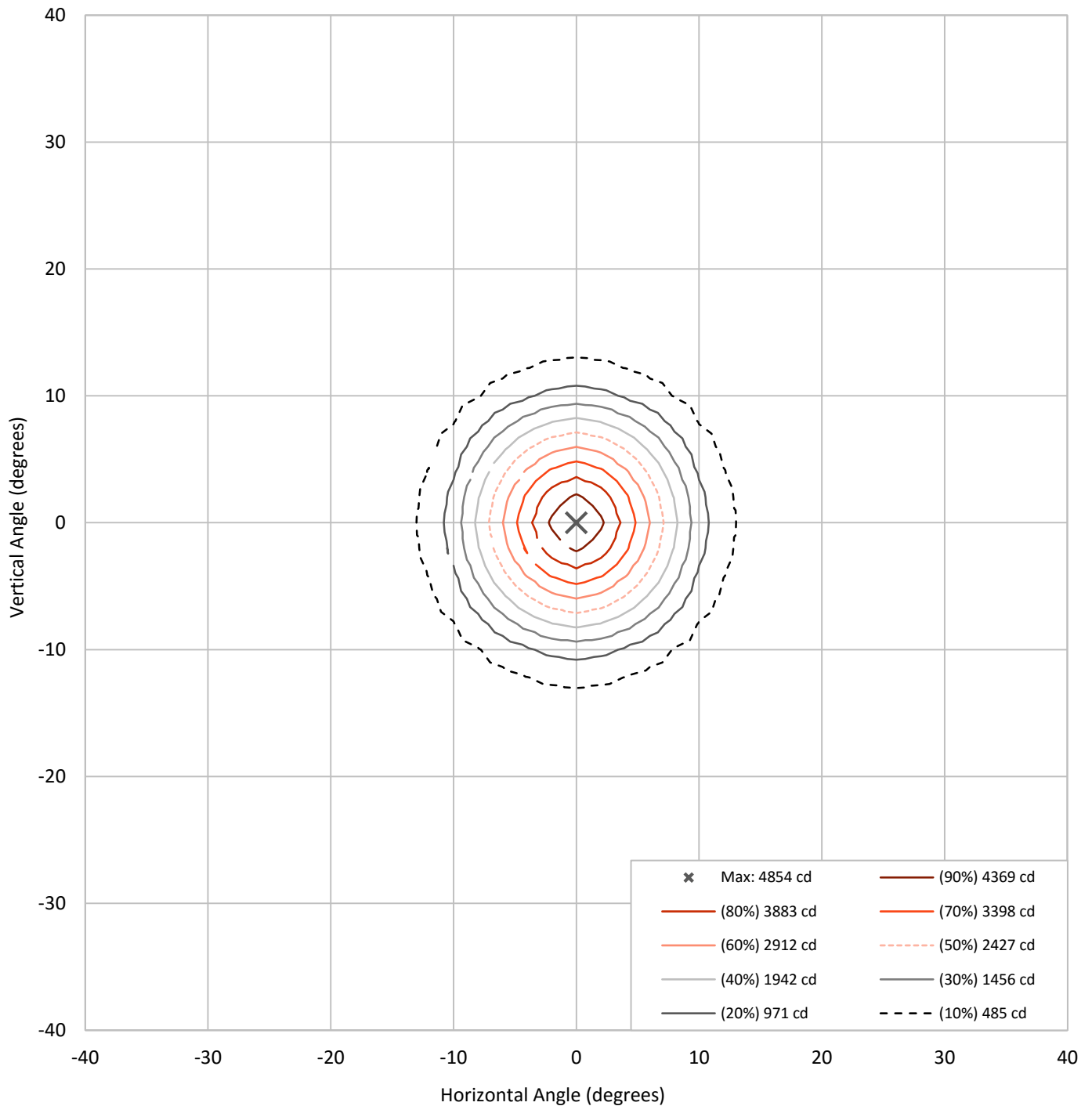
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	379.5 lumens	Max Intensity:	4854 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	37.9 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:	154.2 lumens	Field Lumens:	289 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		



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-S-WT-L1-UNV

### Iso-Candela Plot





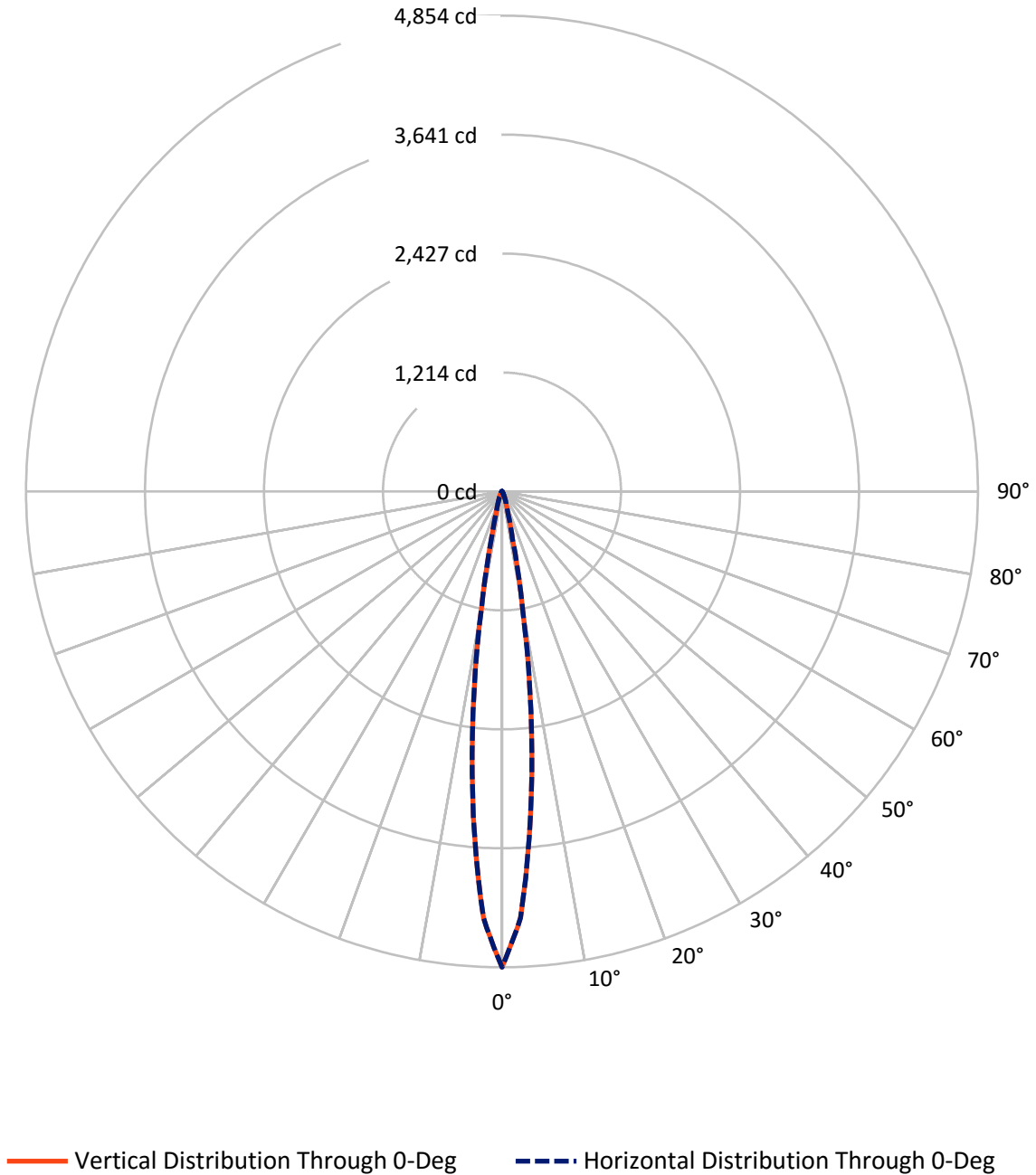
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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-S-WT-L1-UNV

### 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				
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				
70	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				
60		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	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		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	3.0	8.7	8.7	3.0	0.8	0.2	0.1	0.1	0.0				
10	0.0	0.0	0.1	0.1	0.2	1.4	8.4	66.7	66.7	8.4	1.4	0.2	0.1	0.1	0.0	0.0			
0		0.0	0.1	0.1	0.2	1.4	8.4	66.7	66.7	8.4	1.4	0.2	0.1	0.1	0.0				
-10	0.0	0.0	0.1	0.1	0.2	0.8	3.0	8.7	8.7	3.0	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	0.1	0.2	0.3	0.3	0.2	0.1	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	0.0	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	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				
-70	0.0	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			
-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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

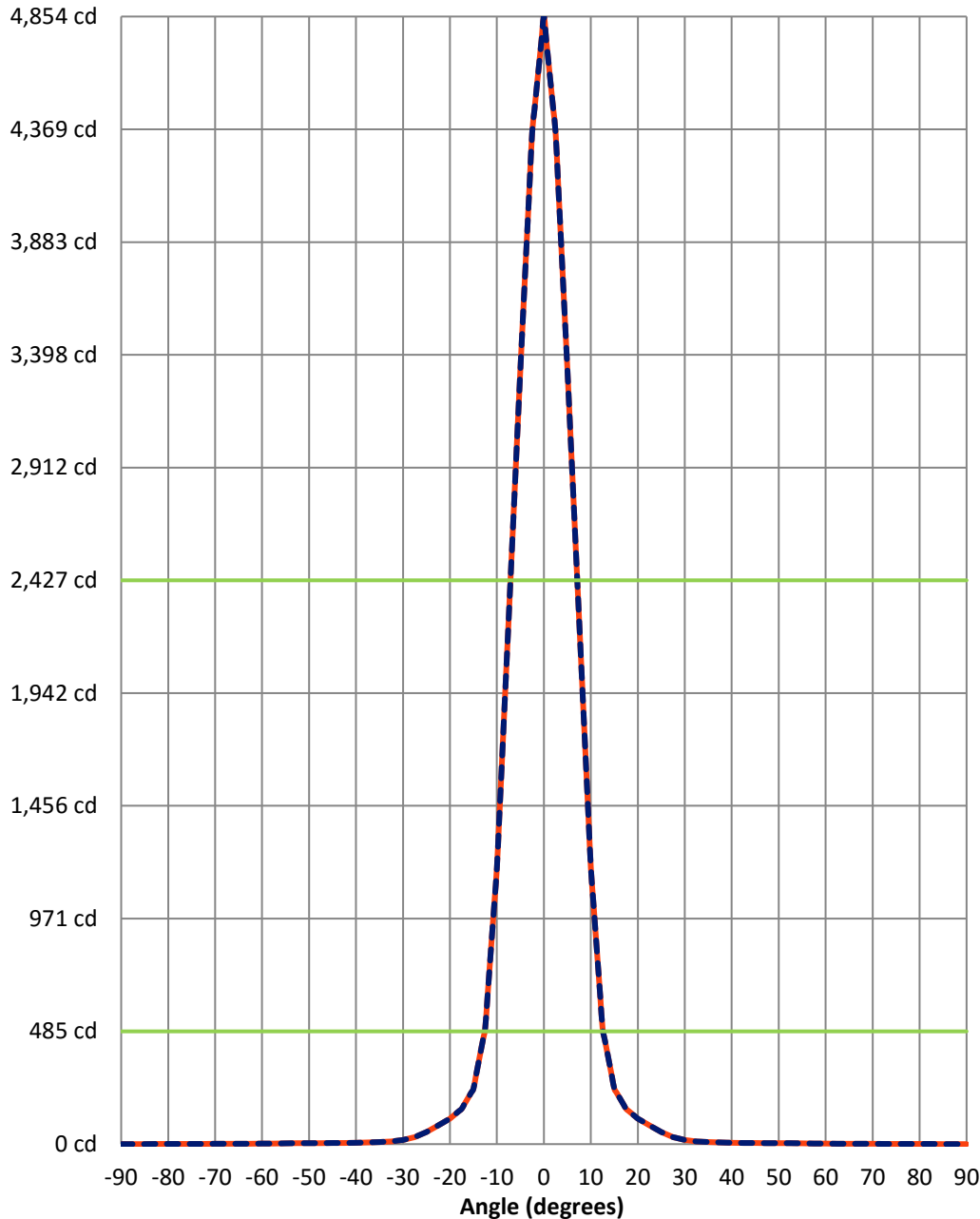
REPORT NUMBER: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-S-WT-L1-UNV

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 14.2°  
V Angle: 14.2°  
Lumens: 154.2  
Efficiency: 40.6%

**Field:**  
H Angle: 25.2°  
V Angle: 25.2°  
Lumens: 289  
Efficiency: 76.2%

**Spill:**  
Lumens: 90.5  
Efficiency: 23.8%

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



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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	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	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	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	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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	2
47.5°	1	2	2	2	2	2	2	2	2	2	2
45°	1	2	2	2	2	2	2	2	2	3	3
42.5°	2	2	2	2	2	2	2	2	3	3	4
40°	2	2	2	2	2	2	2	3	3	4	4
37.5°	2	2	2	2	2	2	2	3	4	4	4
35°	2	2	2	2	2	2	3	3	4	4	4
32.5°	2	2	2	2	2	3	3	4	4	4	4
30°	2	2	2	2	2	3	4	4	4	4	4
27.5°	2	2	2	2	2	3	4	4	4	4	5
25°	2	2	2	2	3	4	4	4	4	5	5
22.5°	2	2	2	2	3	4	4	4	4	5	5
20°	2	2	2	2	3	4	4	4	5	5	5
17.5°	2	2	2	3	3	4	4	4	5	5	5
15°	2	2	2	3	4	4	4	4	5	5	6
12.5°	2	2	2	3	4	4	4	4	5	5	6
10°	2	2	2	3	4	4	4	5	5	5	7
7.5°	2	2	2	3	4	4	4	5	5	6	7
5°	2	2	2	3	4	4	4	5	5	6	7
2.5°	2	2	2	3	4	4	4	5	5	6	7
0°	2	2	2	3	4	4	4	5	5	6	7
-2.5°	2	2	2	3	4	4	4	5	5	6	7
-5°	2	2	2	3	4	4	4	5	5	6	7
-7.5°	2	2	2	3	4	4	4	5	5	6	7
-10°	2	2	2	3	4	4	4	5	5	5	7
-12.5°	2	2	2	3	4	4	4	4	5	5	6
-15°	2	2	2	3	4	4	4	4	5	5	6
-17.5°	2	2	2	3	3	4	4	4	5	5	5
-20°	2	2	2	2	3	4	4	4	5	5	5



REPORT NUMBER: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	4	4	4	4	5	5
-27.5°	2	2	2	2	2	3	4	4	4	4	5
-30°	2	2	2	2	2	3	4	4	4	4	4
-32.5°	2	2	2	2	2	3	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	4	4	4
-40°	2	2	2	2	2	2	2	3	3	4	4
-42.5°	2	2	2	2	2	2	2	2	3	3	4
-45°	1	2	2	2	2	2	2	2	2	3	3
-47.5°	1	2	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	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	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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°	2	2	2	2	2	2	2	3	3	3	3
52.5°	2	2	2	2	3	3	3	3	4	4	4
50°	2	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	4	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	5	6	6	7
35°	4	4	5	5	5	5	6	7	7	8	8
32.5°	4	5	5	5	6	6	7	8	9	9	10
30°	5	5	5	6	7	8	9	10	11	12	14
27.5°	5	5	6	7	8	9	10	12	15	18	22
25°	5	6	7	8	9	11	14	17	23	29	36
22.5°	5	6	8	9	11	14	19	27	36	47	57
20°	6	7	9	10	14	19	28	40	54	70	83
17.5°	7	8	10	12	17	27	40	57	76	93	109
15°	7	9	11	15	23	36	54	76	97	119	144
12.5°	8	9	12	18	29	47	70	93	119	150	205
10°	8	10	14	22	36	57	83	109	144	205	298
7.5°	8	11	16	26	43	67	94	127	178	269	502
5°	9	11	17	28	48	74	103	140	211	364	798
2.5°	9	11	18	30	51	79	108	149	231	456	1083
0°	9	11	18	30	52	80	110	152	238	498	1190
-2.5°	9	11	18	30	51	79	108	149	231	456	1083
-5°	9	11	17	28	48	74	103	140	211	364	798
-7.5°	8	11	16	26	43	67	94	127	178	269	502
-10°	8	10	14	22	36	57	83	109	144	205	298
-12.5°	8	9	12	18	29	47	70	93	119	150	205
-15°	7	9	11	15	23	36	54	76	97	119	144
-17.5°	7	8	10	12	17	27	40	57	76	93	109
-20°	6	7	9	10	14	19	28	40	54	70	83



REPORT NUMBER: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	8	9	11	14	19	27	36	47	57
-25°	5	6	7	8	9	11	14	17	23	29	36
-27.5°	5	5	6	7	8	9	10	12	15	18	22
-30°	5	5	5	6	7	8	9	10	11	12	14
-32.5°	4	5	5	5	6	6	7	8	9	9	10
-35°	4	4	5	5	5	5	6	7	7	8	8
-37.5°	4	4	4	5	5	5	5	5	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	4	5
-47.5°	3	3	4	4	4	4	4	4	4	4	4
-50°	2	3	3	3	4	4	4	4	4	4	4
-52.5°	2	2	2	2	3	3	3	3	4	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	2	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	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	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	4	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	7	7	7	7	7	6	6	5
35°	8	9	9	9	9	9	8	8	8	7	7
32.5°	11	11	11	11	11	11	11	10	9	9	8
30°	16	17	18	18	18	17	16	14	12	11	10
27.5°	26	28	30	30	30	28	26	22	18	15	12
25°	43	48	51	52	51	48	43	36	29	23	17
22.5°	67	74	79	80	79	74	67	57	47	36	27
20°	94	103	108	110	108	103	94	83	70	54	40
17.5°	127	140	149	152	149	140	127	109	93	76	57
15°	178	211	231	238	231	211	178	144	119	97	76
12.5°	269	364	456	498	456	364	269	205	150	119	93
10°	502	798	1083	1190	1083	798	502	298	205	144	109
7.5°	983	1597	2081	2260	2081	1597	983	502	269	178	127
5°	1597	2451	3087	3339	3087	2451	1597	798	364	211	140
2.5°	2081	3087	3961	4354	3961	3087	2081	1083	456	231	149
0°	2260	3339	4354	4854	4354	3339	2260	1190	498	238	152
-2.5°	2081	3087	3961	4354	3961	3087	2081	1083	456	231	149
-5°	1597	2451	3087	3339	3087	2451	1597	798	364	211	140
-7.5°	983	1597	2081	2260	2081	1597	983	502	269	178	127
-10°	502	798	1083	1190	1083	798	502	298	205	144	109
-12.5°	269	364	456	498	456	364	269	205	150	119	93
-15°	178	211	231	238	231	211	178	144	119	97	76
-17.5°	127	140	149	152	149	140	127	109	93	76	57
-20°	94	103	108	110	108	103	94	83	70	54	40



REPORT NUMBER: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	67	74	79	80	79	74	67	57	47	36	27
-25°	43	48	51	52	51	48	43	36	29	23	17
-27.5°	26	28	30	30	30	28	26	22	18	15	12
-30°	16	17	18	18	18	17	16	14	12	11	10
-32.5°	11	11	11	11	11	11	11	10	9	9	8
-35°	8	9	9	9	9	9	8	8	8	7	7
-37.5°	7	7	7	7	7	7	7	7	6	6	5
-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	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	4	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°	2	2	2	2	2	2	2	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	1	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°	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	4	3	3	3	2	2	2	2	2
47.5°	4	4	4	4	4	3	3	2	2	2	2
45°	4	4	4	4	4	4	3	3	3	2	2
42.5°	5	4	4	4	4	4	4	4	3	3	2
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	5	5	5	5	4	4	4	4	4	3
32.5°	7	6	6	5	5	5	4	4	4	4	4
30°	9	8	7	6	5	5	5	4	4	4	4
27.5°	10	9	8	7	6	5	5	5	4	4	4
25°	14	11	9	8	7	6	5	5	5	4	4
22.5°	19	14	11	9	8	6	5	5	5	4	4
20°	28	19	14	10	9	7	6	5	5	5	4
17.5°	40	27	17	12	10	8	7	5	5	5	4
15°	54	36	23	15	11	9	7	6	5	5	4
12.5°	70	47	29	18	12	9	8	6	5	5	4
10°	83	57	36	22	14	10	8	7	5	5	5
7.5°	94	67	43	26	16	11	8	7	6	5	5
5°	103	74	48	28	17	11	9	7	6	5	5
2.5°	108	79	51	30	18	11	9	7	6	5	5
0°	110	80	52	30	18	11	9	7	6	5	5
-2.5°	108	79	51	30	18	11	9	7	6	5	5
-5°	103	74	48	28	17	11	9	7	6	5	5
-7.5°	94	67	43	26	16	11	8	7	6	5	5
-10°	83	57	36	22	14	10	8	7	5	5	5
-12.5°	70	47	29	18	12	9	8	6	5	5	4
-15°	54	36	23	15	11	9	7	6	5	5	4
-17.5°	40	27	17	12	10	8	7	5	5	5	4
-20°	28	19	14	10	9	7	6	5	5	5	4



REPORT NUMBER: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	19	14	11	9	8	6	5	5	5	4	4
-25°	14	11	9	8	7	6	5	5	5	4	4
-27.5°	10	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	6	6	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	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	2
-45°	4	4	4	4	4	4	3	3	3	2	2
-47.5°	4	4	4	4	4	3	3	2	2	2	2
-50°	4	4	4	3	3	3	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	2	1
-65°	2	2	2	2	2	2	2	1	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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°	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	3	2	2	2	2	2	2	1	1	1
30°	4	3	2	2	2	2	2	2	1	1	1
27.5°	4	3	2	2	2	2	2	2	2	1	1
25°	4	4	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	4	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	2	1
5°	4	4	4	3	2	2	2	2	2	2	1
2.5°	4	4	4	3	2	2	2	2	2	2	1
0°	4	4	4	3	2	2	2	2	2	2	1
-2.5°	4	4	4	3	2	2	2	2	2	2	1
-5°	4	4	4	3	2	2	2	2	2	2	1
-7.5°	4	4	4	3	2	2	2	2	2	2	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	4	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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	4	3	2	2	2	2	2	2	1	1
-27.5°	4	3	2	2	2	2	2	2	2	1	1
-30°	4	3	2	2	2	2	2	2	1	1	1
-32.5°	3	3	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	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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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: P220311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3597-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)