

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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED4080-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
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-LED4080-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

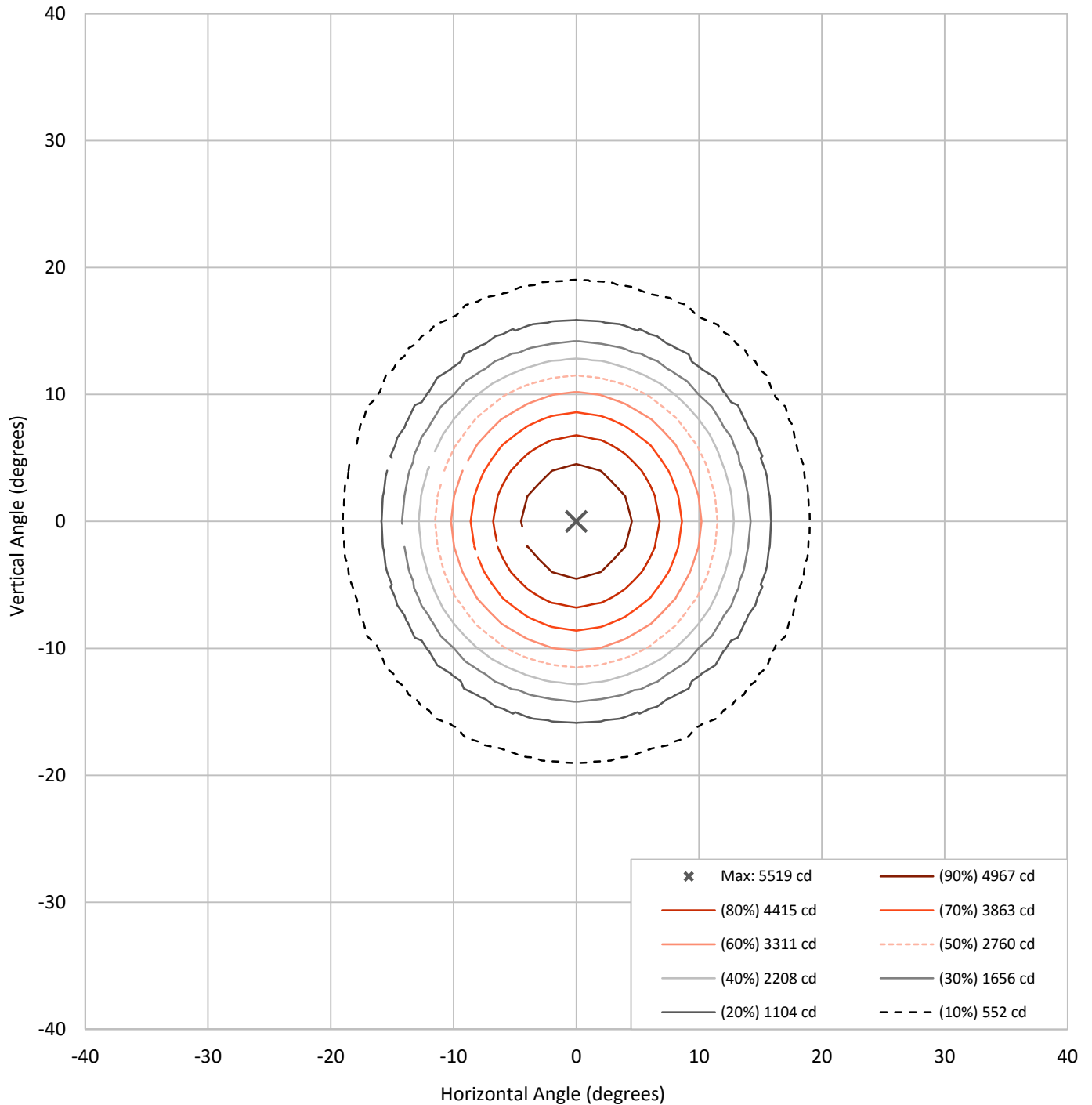
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	983.4 lumens	Max Intensity:	5519 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23°H x 23°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	513.4 lumens	Field Lumens:	788.3 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		



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-BK-L1-UNV

### Iso-Candela Plot





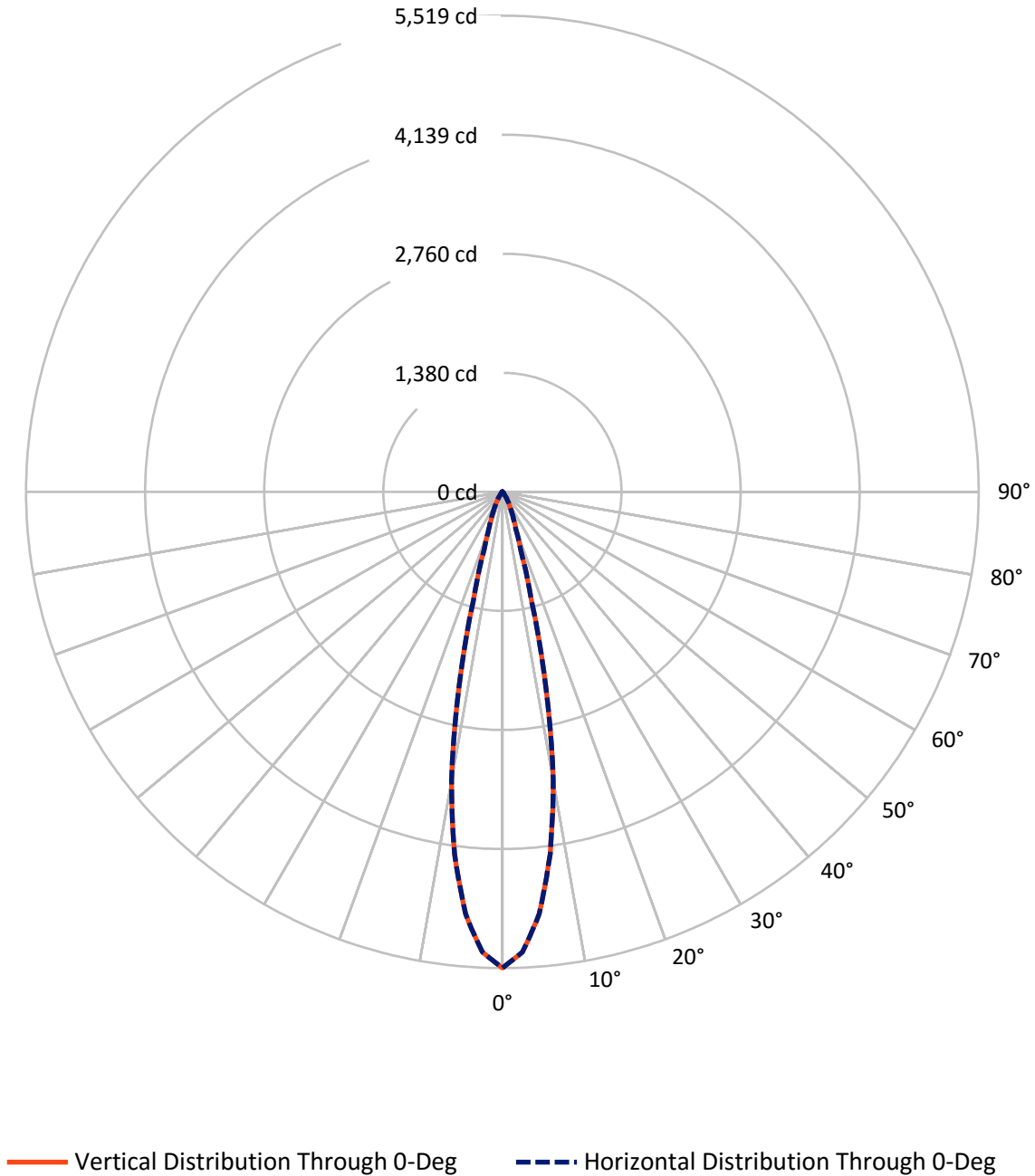
REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-BK-L1-UNV

### 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	0.1	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	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.2	0.5	1.2	1.9	1.9	1.2	0.5	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.5	1.9	4.7	7.4	7.4	4.7	1.9	0.5	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.2	1.1	4.4	13.4	38.3	38.3	13.4	4.4	1.1	0.2	0.0	0.0		
10	0.0	0.0	0.1	0.3	1.6	6.8	37.3	122.2	122.2	37.3	6.8	1.6	0.3	0.1	0.0	0.0	
0		0.0	0.1	0.3	1.6	6.8	37.3	122.2	122.2	37.3	6.8	1.6	0.3	0.1	0.0		
-10	0.0	0.0	0.1	0.3	1.6	6.8	37.3	122.2	122.2	37.3	6.8	1.6	0.3	0.1	0.0	0.0	
-20		0.0	0.0	0.2	1.1	4.4	13.4	38.3	38.3	13.4	4.4	1.1	0.2	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.5	1.9	4.7	7.4	7.4	4.7	1.9	0.5	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.1	0.2	0.5	1.2	1.9	1.9	1.2	0.5	0.2	0.1	0.0	0.0		
-50	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	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	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	

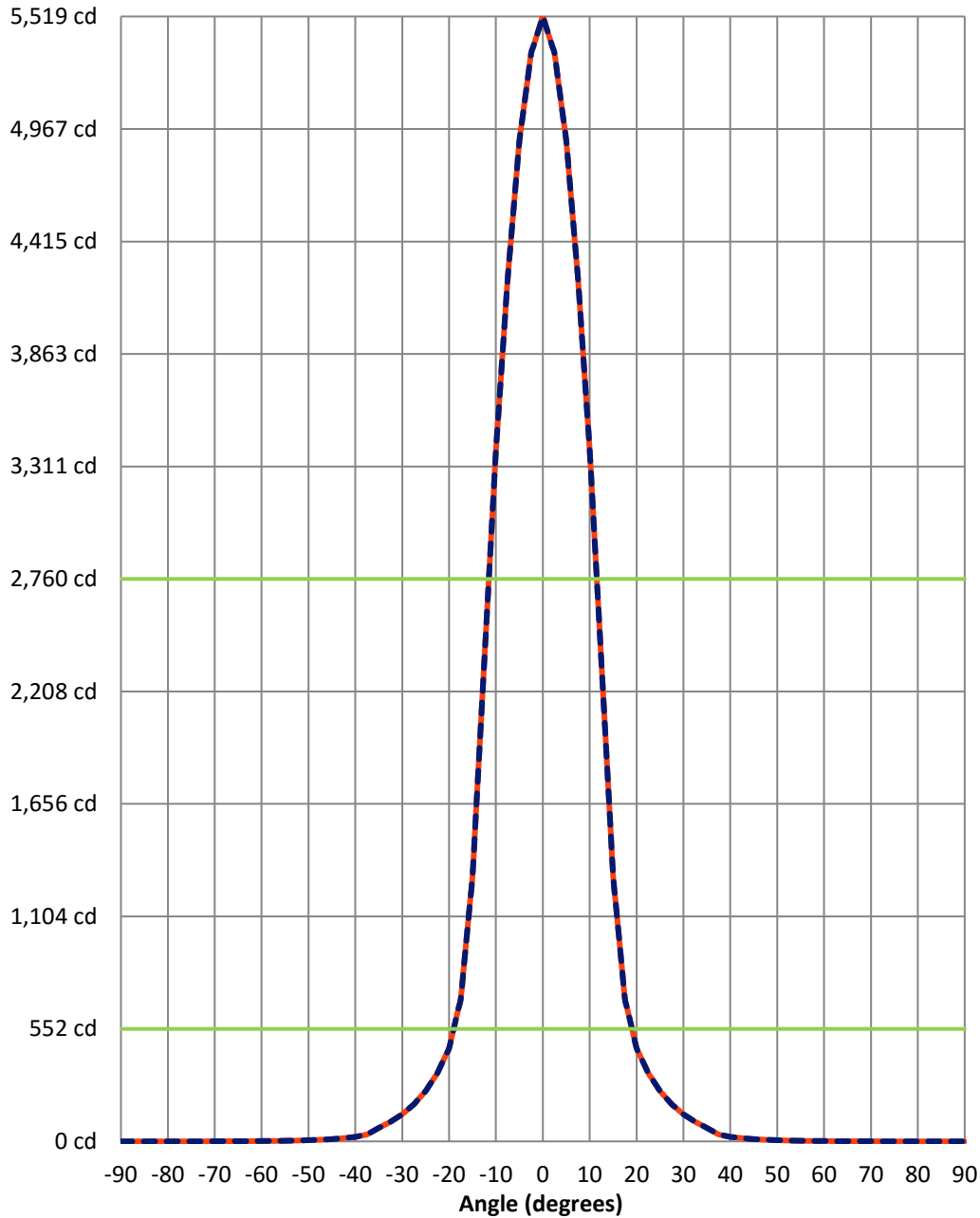
REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-BK-L1-UNV

### Luminous Intensity Polar Plot



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-BK-L1-UNV

### Luminous Intensity Plot



**Beam:**  
 H Angle: 23°  
 V Angle: 23°  
 Lumens: 513.4  
 Efficiency: 52.2%

**Field:**  
 H Angle: 38.1°  
 V Angle: 38.1°  
 Lumens: 788.3  
 Efficiency: 80.2%

**Spill:**  
 Lumens: 195.1  
 Efficiency: 19.8%

— 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	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	1
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	1	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	1	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	1	1	1
-20°	0	0	0	0	0	0	0	0	0	1	1



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	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	1
-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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	1
62.5°	0	0	0	0	0	0	0	1	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	2
50°	0	0	1	1	1	1	1	1	1	2	2
47.5°	0	1	1	1	1	1	1	1	2	2	2
45°	1	1	1	1	1	1	1	2	2	2	3
42.5°	1	1	1	1	1	1	2	2	2	3	3
40°	1	1	1	1	1	2	2	2	3	3	4
37.5°	1	1	1	1	2	2	2	3	3	4	5
35°	1	1	1	1	2	2	2	3	4	5	6
32.5°	1	1	1	2	2	2	3	4	5	6	8
30°	1	1	1	2	2	3	3	4	6	7	9
27.5°	1	1	1	2	2	3	4	5	7	8	11
25°	1	1	2	2	2	3	4	6	8	10	13
22.5°	1	1	2	2	3	4	5	7	9	11	15
20°	1	1	2	2	3	4	6	7	10	13	18
17.5°	1	1	2	2	3	4	6	8	11	15	20
15°	1	2	2	2	3	5	7	9	12	17	22
12.5°	1	2	2	3	4	5	7	9	13	18	26
10°	1	2	2	3	4	5	7	10	14	20	29
7.5°	1	2	2	3	4	6	8	10	15	21	31
5°	1	2	2	3	4	6	8	11	16	21	33
2.5°	1	2	2	3	4	6	8	11	16	22	34
0°	1	2	2	3	4	6	8	11	16	22	34
-2.5°	1	2	2	3	4	6	8	11	16	22	34
-5°	1	2	2	3	4	6	8	11	16	21	33
-7.5°	1	2	2	3	4	6	8	10	15	21	31
-10°	1	2	2	3	4	5	7	10	14	20	29
-12.5°	1	2	2	3	4	5	7	9	13	18	26
-15°	1	2	2	2	3	5	7	9	12	17	22
-17.5°	1	1	2	2	3	4	6	8	11	15	20
-20°	1	1	2	2	3	4	6	7	10	13	18



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	3	4	5	7	9	11	15
-25°	1	1	2	2	2	3	4	6	8	10	13
-27.5°	1	1	1	2	2	3	4	5	7	8	11
-30°	1	1	1	2	2	3	3	4	6	7	9
-32.5°	1	1	1	2	2	2	3	4	5	6	8
-35°	1	1	1	1	2	2	2	3	4	5	6
-37.5°	1	1	1	1	2	2	2	3	3	4	5
-40°	1	1	1	1	1	2	2	2	3	3	4
-42.5°	1	1	1	1	1	1	2	2	2	3	3
-45°	1	1	1	1	1	1	1	2	2	2	3
-47.5°	0	1	1	1	1	1	1	1	2	2	2
-50°	0	0	1	1	1	1	1	1	1	2	2
-52.5°	0	0	1	1	1	1	1	1	1	1	2
-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	1	1	1	1
-65°	0	0	0	0	0	0	0	0	0	1	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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	1	1	1
67.5°	0	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	2	2	2
57.5°	1	1	1	1	2	2	2	2	2	2	2
55°	1	2	2	2	2	2	2	2	2	3	3
52.5°	2	2	2	2	2	3	3	3	3	4	4
50°	2	2	3	3	3	4	4	4	5	5	5
47.5°	2	3	3	4	4	5	6	6	7	7	7
45°	3	4	4	5	6	7	7	8	9	9	10
42.5°	4	5	6	7	8	9	10	11	12	13	14
40°	5	6	7	8	10	11	13	15	17	18	20
37.5°	6	8	9	11	13	15	18	20	22	26	29
35°	8	9	11	14	17	20	24	29	33	42	50
32.5°	9	12	15	18	22	28	34	47	60	71	80
30°	11	15	19	23	30	42	59	74	87	99	111
27.5°	14	18	23	31	47	66	84	100	118	133	149
25°	17	22	30	47	69	88	109	130	153	176	198
22.5°	20	28	42	66	88	112	137	167	197	230	264
20°	24	34	59	84	109	137	171	210	254	302	346
17.5°	29	47	74	100	130	167	210	263	321	389	453
15°	33	60	87	118	153	197	254	321	404	497	632
12.5°	42	71	99	133	176	230	302	389	497	685	1009
10°	50	80	111	149	198	264	346	453	632	1009	1643
7.5°	57	87	121	162	217	294	393	528	834	1475	2359
5°	62	92	127	173	234	317	428	609	1059	1927	2930
2.5°	65	95	132	180	244	330	450	676	1240	2239	3272
0°	66	96	133	182	247	335	457	701	1302	2349	3391
-2.5°	65	95	132	180	244	330	450	676	1240	2239	3272
-5°	62	92	127	173	234	317	428	609	1059	1927	2930
-7.5°	57	87	121	162	217	294	393	528	834	1475	2359
-10°	50	80	111	149	198	264	346	453	632	1009	1643
-12.5°	42	71	99	133	176	230	302	389	497	685	1009
-15°	33	60	87	118	153	197	254	321	404	497	632
-17.5°	29	47	74	100	130	167	210	263	321	389	453
-20°	24	34	59	84	109	137	171	210	254	302	346



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	20	28	42	66	88	112	137	167	197	230	264
-25°	17	22	30	47	69	88	109	130	153	176	198
-27.5°	14	18	23	31	47	66	84	100	118	133	149
-30°	11	15	19	23	30	42	59	74	87	99	111
-32.5°	9	12	15	18	22	28	34	47	60	71	80
-35°	8	9	11	14	17	20	24	29	33	42	50
-37.5°	6	8	9	11	13	15	18	20	22	26	29
-40°	5	6	7	8	10	11	13	15	17	18	20
-42.5°	4	5	6	7	8	9	10	11	12	13	14
-45°	3	4	4	5	6	7	7	8	9	9	10
-47.5°	2	3	3	4	4	5	6	6	7	7	7
-50°	2	2	3	3	3	4	4	4	5	5	5
-52.5°	2	2	2	2	2	3	3	3	3	4	4
-55°	1	2	2	2	2	2	2	2	2	3	3
-57.5°	1	1	1	1	2	2	2	2	2	2	2
-60°	1	1	1	1	1	1	1	1	2	2	2
-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	1	1	1	1	1	1	1	1	1	1
-70°	0	0	0	0	0	0	0	1	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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	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	1	1
60°	2	2	2	2	2	2	2	2	2	2	1
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	3	3	3	3	3	3	3	3	3	2	2
52.5°	4	4	4	4	4	4	4	4	4	3	3
50°	6	6	6	6	6	6	6	5	5	5	4
47.5°	8	8	8	8	8	8	8	7	7	7	6
45°	10	11	11	11	11	11	10	10	9	9	8
42.5°	15	16	16	16	16	16	15	14	13	12	11
40°	21	21	22	22	22	21	21	20	18	17	15
37.5°	31	33	34	34	34	33	31	29	26	22	20
35°	57	62	65	66	65	62	57	50	42	33	29
32.5°	87	92	95	96	95	92	87	80	71	60	47
30°	121	127	132	133	132	127	121	111	99	87	74
27.5°	162	173	180	182	180	173	162	149	133	118	100
25°	217	234	244	247	244	234	217	198	176	153	130
22.5°	294	317	330	335	330	317	294	264	230	197	167
20°	393	428	450	457	450	428	393	346	302	254	210
17.5°	528	609	676	701	676	609	528	453	389	321	263
15°	834	1059	1240	1302	1240	1059	834	632	497	404	321
12.5°	1475	1927	2239	2349	2239	1927	1475	1009	685	497	389
10°	2359	2930	3272	3391	3272	2930	2359	1643	1009	632	453
7.5°	3161	3744	4110	4234	4110	3744	3161	2359	1475	834	528
5°	3744	4367	4764	4909	4764	4367	3744	2930	1927	1059	609
2.5°	4110	4764	5192	5338	5192	4764	4110	3272	2239	1240	676
0°	4234	4909	5338	5519	5338	4909	4234	3391	2349	1302	701
-2.5°	4110	4764	5192	5338	5192	4764	4110	3272	2239	1240	676
-5°	3744	4367	4764	4909	4764	4367	3744	2930	1927	1059	609
-7.5°	3161	3744	4110	4234	4110	3744	3161	2359	1475	834	528
-10°	2359	2930	3272	3391	3272	2930	2359	1643	1009	632	453
-12.5°	1475	1927	2239	2349	2239	1927	1475	1009	685	497	389
-15°	834	1059	1240	1302	1240	1059	834	632	497	404	321
-17.5°	528	609	676	701	676	609	528	453	389	321	263
-20°	393	428	450	457	450	428	393	346	302	254	210



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	294	317	330	335	330	317	294	264	230	197	167
-25°	217	234	244	247	244	234	217	198	176	153	130
-27.5°	162	173	180	182	180	173	162	149	133	118	100
-30°	121	127	132	133	132	127	121	111	99	87	74
-32.5°	87	92	95	96	95	92	87	80	71	60	47
-35°	57	62	65	66	65	62	57	50	42	33	29
-37.5°	31	33	34	34	34	33	31	29	26	22	20
-40°	21	21	22	22	22	21	21	20	18	17	15
-42.5°	15	16	16	16	16	16	15	14	13	12	11
-45°	10	11	11	11	11	11	10	10	9	9	8
-47.5°	8	8	8	8	8	8	8	7	7	7	6
-50°	6	6	6	6	6	6	6	5	5	5	4
-52.5°	4	4	4	4	4	4	4	4	4	3	3
-55°	3	3	3	3	3	3	3	3	3	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	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	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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	0	0
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	2	1	1	1	1	1	1	1	1
55°	2	2	2	2	2	2	1	1	1	1	1
52.5°	3	3	2	2	2	2	2	2	1	1	1
50°	4	4	3	3	3	2	2	2	2	1	1
47.5°	6	5	4	4	3	3	2	2	2	2	1
45°	7	7	6	5	4	4	3	3	2	2	2
42.5°	10	9	8	7	6	5	4	3	3	2	2
40°	13	11	10	8	7	6	5	4	3	3	2
37.5°	18	15	13	11	9	8	6	5	4	3	3
35°	24	20	17	14	11	9	8	6	5	4	3
32.5°	34	28	22	18	15	12	9	8	6	5	4
30°	59	42	30	23	19	15	11	9	7	6	4
27.5°	84	66	47	31	23	18	14	11	8	7	5
25°	109	88	69	47	30	22	17	13	10	8	6
22.5°	137	112	88	66	42	28	20	15	11	9	7
20°	171	137	109	84	59	34	24	18	13	10	7
17.5°	210	167	130	100	74	47	29	20	15	11	8
15°	254	197	153	118	87	60	33	22	17	12	9
12.5°	302	230	176	133	99	71	42	26	18	13	9
10°	346	264	198	149	111	80	50	29	20	14	10
7.5°	393	294	217	162	121	87	57	31	21	15	10
5°	428	317	234	173	127	92	62	33	21	16	11
2.5°	450	330	244	180	132	95	65	34	22	16	11
0°	457	335	247	182	133	96	66	34	22	16	11
-2.5°	450	330	244	180	132	95	65	34	22	16	11
-5°	428	317	234	173	127	92	62	33	21	16	11
-7.5°	393	294	217	162	121	87	57	31	21	15	10
-10°	346	264	198	149	111	80	50	29	20	14	10
-12.5°	302	230	176	133	99	71	42	26	18	13	9
-15°	254	197	153	118	87	60	33	22	17	12	9
-17.5°	210	167	130	100	74	47	29	20	15	11	8
-20°	171	137	109	84	59	34	24	18	13	10	7



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	137	112	88	66	42	28	20	15	11	9	7
-25°	109	88	69	47	30	22	17	13	10	8	6
-27.5°	84	66	47	31	23	18	14	11	8	7	5
-30°	59	42	30	23	19	15	11	9	7	6	4
-32.5°	34	28	22	18	15	12	9	8	6	5	4
-35°	24	20	17	14	11	9	8	6	5	4	3
-37.5°	18	15	13	11	9	8	6	5	4	3	3
-40°	13	11	10	8	7	6	5	4	3	3	2
-42.5°	10	9	8	7	6	5	4	3	3	2	2
-45°	7	7	6	5	4	4	3	3	2	2	2
-47.5°	6	5	4	4	3	3	2	2	2	2	1
-50°	4	4	3	3	3	2	2	2	2	1	1
-52.5°	3	3	2	2	2	2	2	2	1	1	1
-55°	2	2	2	2	2	2	1	1	1	1	1
-57.5°	2	2	2	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	0	0
-67.5°	1	1	1	1	1	1	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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	1	0	0	0	0
42.5°	2	1	1	1	1	1	1	0	0	0	0
40°	2	2	1	1	1	1	1	1	0	0	0
37.5°	2	2	2	1	1	1	1	1	0	0	0
35°	2	2	2	1	1	1	1	1	0	0	0
32.5°	3	2	2	2	1	1	1	1	1	0	0
30°	3	3	2	2	1	1	1	1	1	0	0
27.5°	4	3	2	2	1	1	1	1	1	0	0
25°	4	3	2	2	2	1	1	1	1	0	0
22.5°	5	4	3	2	2	1	1	1	1	0	0
20°	6	4	3	2	2	1	1	1	1	0	0
17.5°	6	4	3	2	2	1	1	1	1	1	0
15°	7	5	3	2	2	2	1	1	1	1	0
12.5°	7	5	4	3	2	2	1	1	1	1	0
10°	7	5	4	3	2	2	1	1	1	1	0
7.5°	8	6	4	3	2	2	1	1	1	1	0
5°	8	6	4	3	2	2	1	1	1	1	0
2.5°	8	6	4	3	2	2	1	1	1	1	0
0°	8	6	4	3	2	2	1	1	1	1	0
-2.5°	8	6	4	3	2	2	1	1	1	1	0
-5°	8	6	4	3	2	2	1	1	1	1	0
-7.5°	8	6	4	3	2	2	1	1	1	1	0
-10°	7	5	4	3	2	2	1	1	1	1	0
-12.5°	7	5	4	3	2	2	1	1	1	1	0
-15°	7	5	3	2	2	2	1	1	1	1	0
-17.5°	6	4	3	2	2	1	1	1	1	1	0
-20°	6	4	3	2	2	1	1	1	1	0	0



REPORT NUMBER: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	5	4	3	2	2	1	1	1	1	0	0
-25°	4	3	2	2	2	1	1	1	1	0	0
-27.5°	4	3	2	2	1	1	1	1	1	0	0
-30°	3	3	2	2	1	1	1	1	1	0	0
-32.5°	3	2	2	2	1	1	1	1	1	0	0
-35°	2	2	2	1	1	1	1	1	0	0	0
-37.5°	2	2	2	1	1	1	1	1	0	0	0
-40°	2	2	1	1	1	1	1	1	0	0	0
-42.5°	2	1	1	1	1	1	1	0	0	0	0
-45°	1	1	1	1	1	1	1	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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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: P29422 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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)