

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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED5080-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220412 (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-LED5080-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,  
MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	1073.6 lumens	Max Intensity:	6025.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.4 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:	560.5 lumens	Field Lumens:	860.6 lumens
Beam Efficiency:	52.2%	Field Efficiency:	80.2%

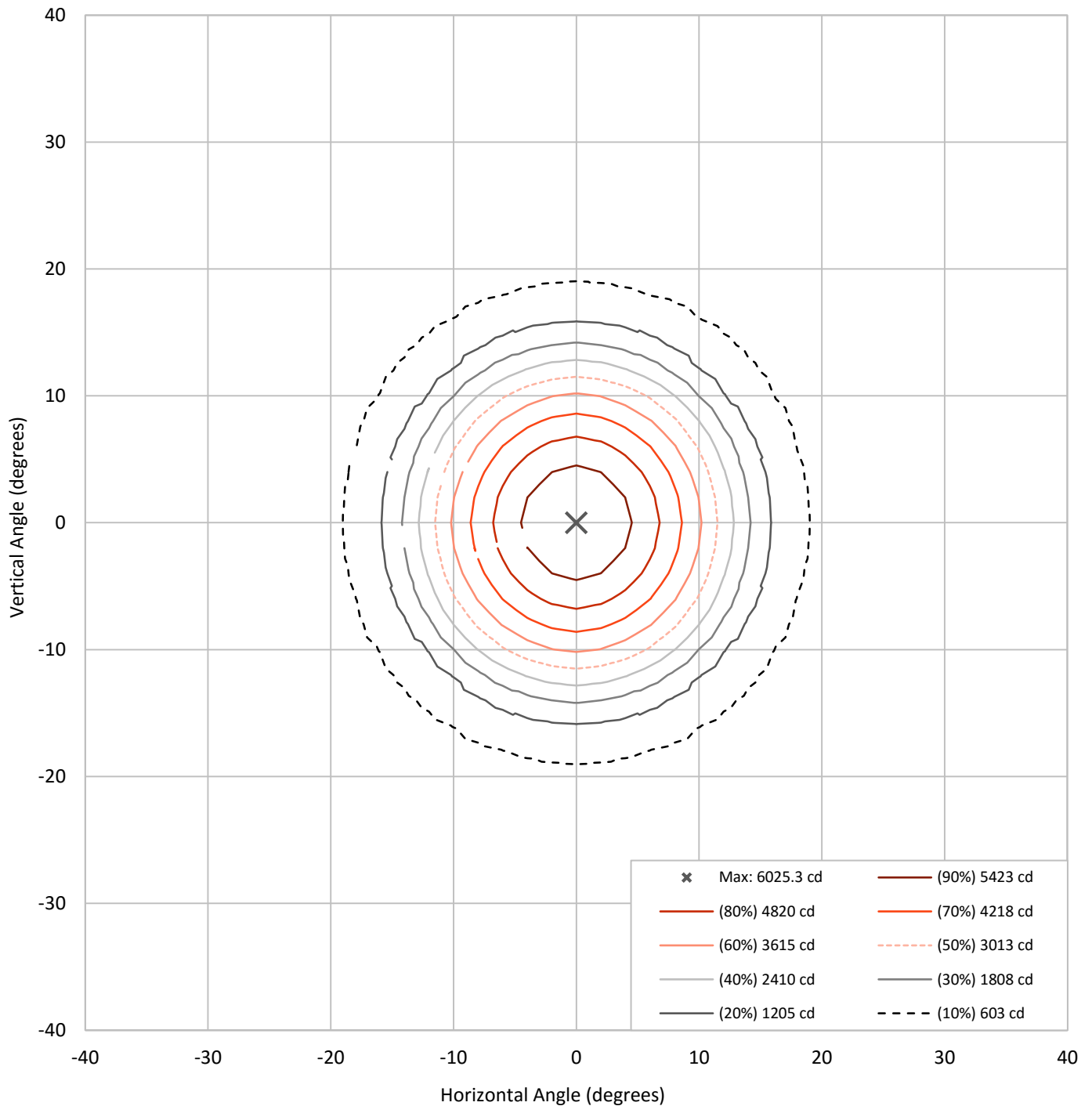
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-M-BK-L1-UNV

### Iso-Candela Plot





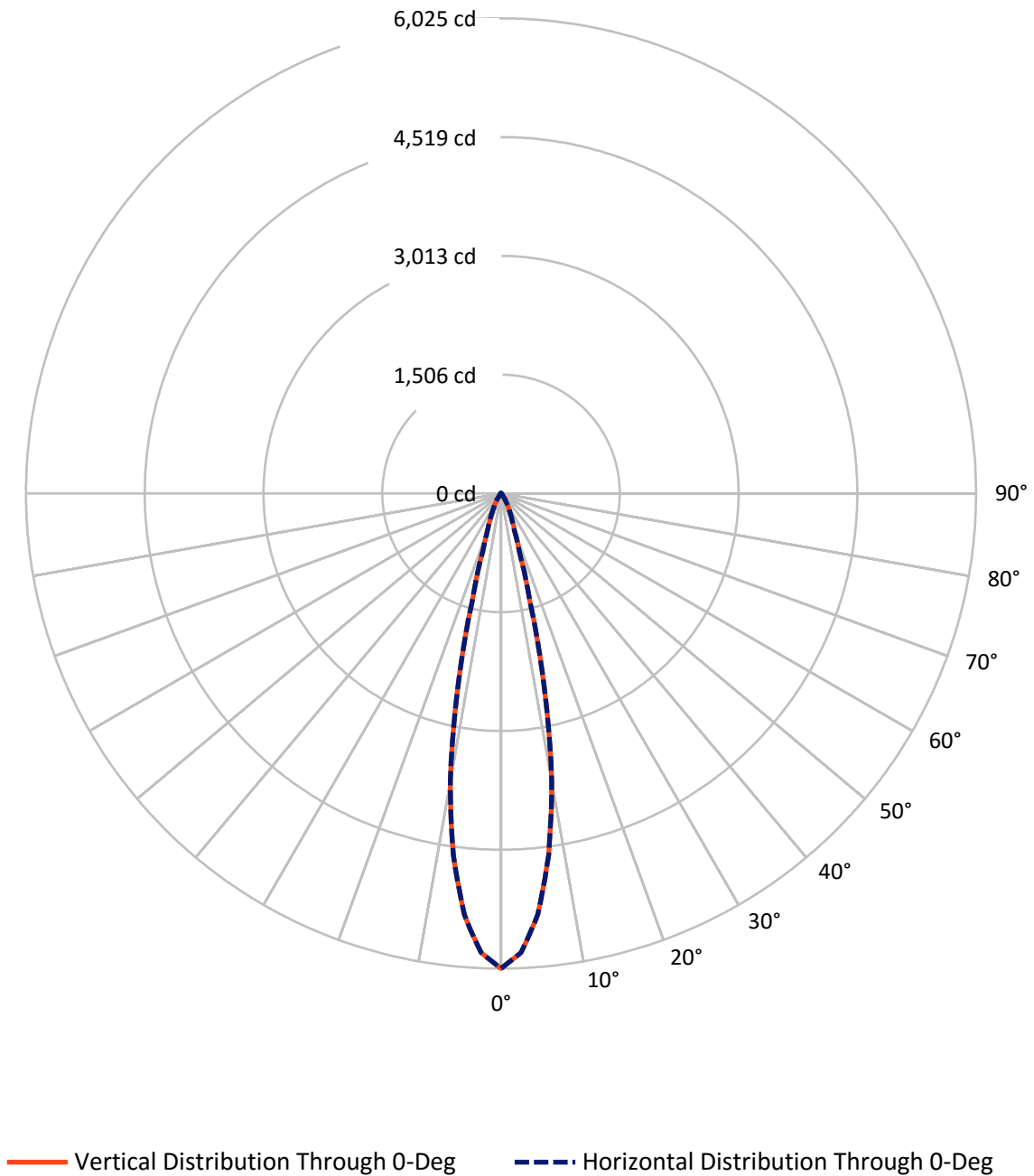
REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-M-BK-L1-UNV

### 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	0.6	1.4	2.1	2.1	1.4	0.6	0.2	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.5	2.1	5.1	8.1	8.1	5.1	2.1	0.5	0.1	0.0	0.0	0.0	
20		0.0	0.1	0.2	1.2	4.8	14.6	41.8	41.8	14.6	4.8	1.2	0.2	0.1	0.0		
10	0.0	0.0	0.1	0.3	1.8	7.4	40.8	133.4	133.4	40.8	7.4	1.8	0.3	0.1	0.0	0.0	
0		0.0	0.1	0.3	1.8	7.4	40.8	133.4	133.4	40.8	7.4	1.8	0.3	0.1	0.0		
-10	0.0	0.0	0.1	0.3	1.8	7.4	40.8	133.4	133.4	40.8	7.4	1.8	0.3	0.1	0.0	0.0	
-20		0.0	0.1	0.2	1.2	4.8	14.6	41.8	41.8	14.6	4.8	1.2	0.2	0.1	0.0		
-30	0.0	0.0	0.0	0.1	0.5	2.1	5.1	8.1	8.1	5.1	2.1	0.5	0.1	0.0	0.0	0.0	
-40		0.0	0.0	0.1	0.2	0.6	1.4	2.1	2.1	1.4	0.6	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	

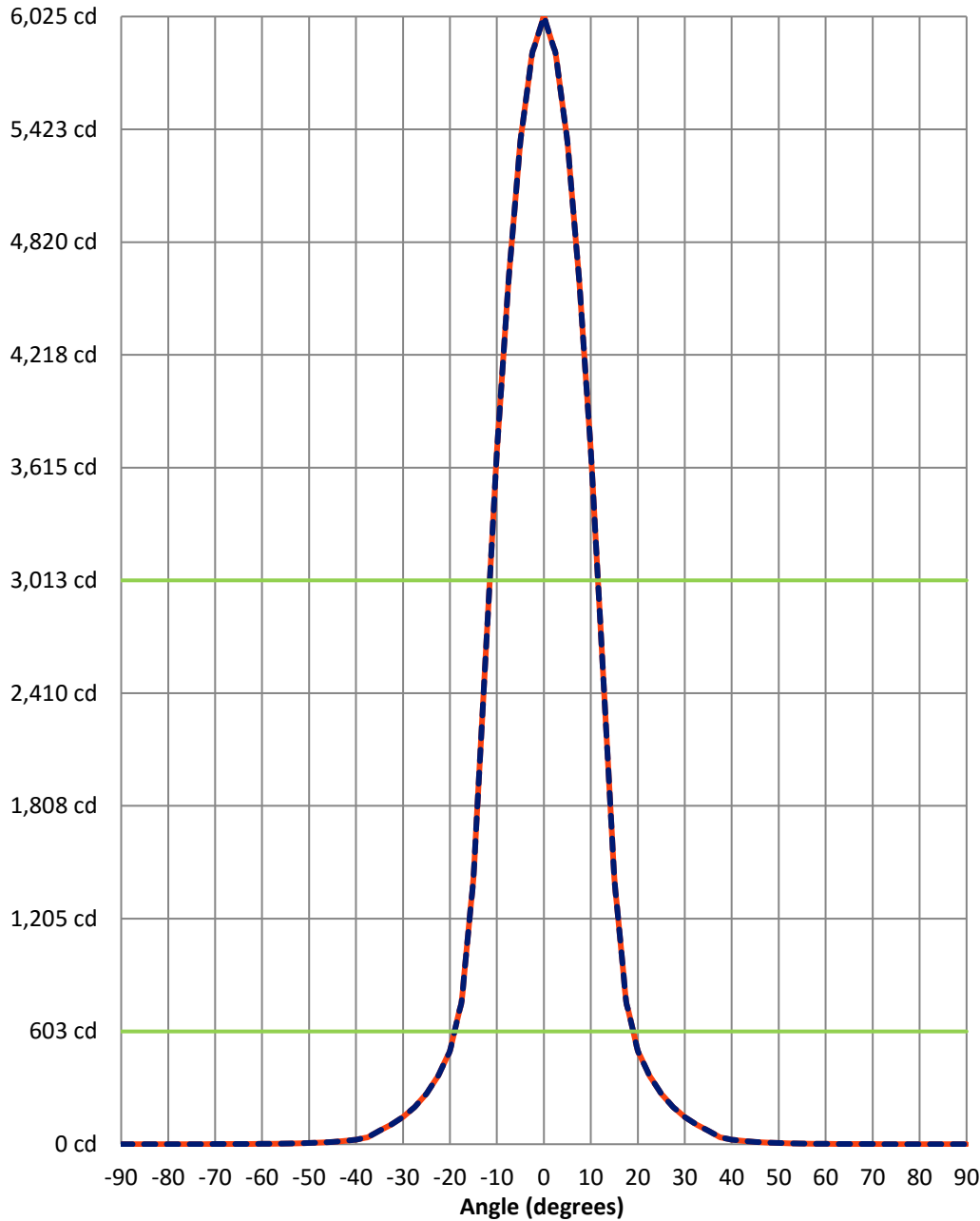
REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-M-BK-L1-UNV

### Luminous Intensity Polar Plot



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-M-BK-L1-UNV

### Luminous Intensity Plot



**Beam:**  
 H Angle: 23°  
 V Angle: 23°  
 Lumens: 560.5  
 Efficiency: 52.2%

**Field:**  
 H Angle: 38.1°  
 V Angle: 38.1°  
 Lumens: 860.6  
 Efficiency: 80.2%

**Spill:**  
 Lumens: 213  
 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	1	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	1	1	1



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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	1	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	1	1	1	1	1	1	1	1	2	2
47.5°	0	1	1	1	1	1	1	2	2	2	2
45°	1	1	1	1	1	1	2	2	2	2	3
42.5°	1	1	1	1	1	1	2	2	2	3	4
40°	1	1	1	1	1	2	2	2	3	4	4
37.5°	1	1	1	1	2	2	2	3	4	4	6
35°	1	1	1	1	2	2	3	3	4	6	7
32.5°	1	1	1	2	2	2	3	4	5	7	8
30°	1	1	1	2	2	3	4	5	6	8	10
27.5°	1	1	2	2	2	3	4	6	7	9	12
25°	1	1	2	2	3	4	5	6	8	11	14
22.5°	1	1	2	2	3	4	5	7	9	12	17
20°	1	1	2	2	3	4	6	8	10	14	19
17.5°	1	2	2	2	4	5	7	9	12	16	22
15°	1	2	2	3	4	5	7	9	13	18	24
12.5°	1	2	2	3	4	6	8	10	14	20	28
10°	1	2	2	3	4	6	8	11	15	21	31
7.5°	1	2	2	3	4	6	8	11	16	22	34
5°	1	2	2	3	4	6	9	12	17	23	36
2.5°	1	2	2	3	4	7	9	12	17	24	37
0°	1	2	2	3	4	7	9	12	18	24	37
-2.5°	1	2	2	3	4	7	9	12	17	24	37
-5°	1	2	2	3	4	6	9	12	17	23	36
-7.5°	1	2	2	3	4	6	8	11	16	22	34
-10°	1	2	2	3	4	6	8	11	15	21	31
-12.5°	1	2	2	3	4	6	8	10	14	20	28
-15°	1	2	2	3	4	5	7	9	13	18	24
-17.5°	1	2	2	2	4	5	7	9	12	16	22
-20°	1	1	2	2	3	4	6	8	10	14	19



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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	12	17
-25°	1	1	2	2	3	4	5	6	8	11	14
-27.5°	1	1	2	2	2	3	4	6	7	9	12
-30°	1	1	1	2	2	3	4	5	6	8	10
-32.5°	1	1	1	2	2	2	3	4	5	7	8
-35°	1	1	1	1	2	2	3	3	4	6	7
-37.5°	1	1	1	1	2	2	2	3	4	4	6
-40°	1	1	1	1	1	2	2	2	3	4	4
-42.5°	1	1	1	1	1	1	2	2	2	3	4
-45°	1	1	1	1	1	1	2	2	2	2	3
-47.5°	0	1	1	1	1	1	1	2	2	2	2
-50°	0	1	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	1	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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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	1	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	2	2	2	2
57.5°	1	1	1	2	2	2	2	2	2	2	2
55°	1	2	2	2	2	2	2	2	3	3	3
52.5°	2	2	2	2	3	3	3	4	4	4	4
50°	2	2	3	3	4	4	4	5	5	6	6
47.5°	3	3	4	4	5	5	6	7	7	8	8
45°	3	4	5	6	6	7	8	9	9	10	11
42.5°	4	5	6	7	8	9	10	12	13	14	15
40°	6	7	8	9	11	12	14	16	18	20	21
37.5°	7	8	10	12	14	17	19	22	24	28	31
35°	8	10	12	16	19	22	26	31	36	46	55
32.5°	10	13	16	20	24	30	37	52	66	78	87
30°	12	16	20	25	33	46	65	81	95	108	121
27.5°	16	20	25	34	51	73	91	109	128	145	162
25°	19	24	33	51	75	96	119	142	167	192	216
22.5°	22	30	46	73	96	123	150	182	216	251	288
20°	26	37	65	91	119	150	187	229	277	329	378
17.5°	31	52	81	109	142	182	229	287	351	425	495
15°	36	66	95	128	167	216	277	351	441	542	690
12.5°	46	78	108	145	192	251	329	425	542	748	1101
10°	55	87	121	162	216	288	378	495	690	1101	1794
7.5°	62	95	132	177	237	321	429	576	911	1611	2576
5°	68	100	139	189	255	346	467	665	1156	2104	3198
2.5°	71	104	144	196	266	361	491	737	1354	2445	3573
0°	72	105	145	199	270	366	499	765	1421	2564	3702
-2.5°	71	104	144	196	266	361	491	737	1354	2445	3573
-5°	68	100	139	189	255	346	467	665	1156	2104	3198
-7.5°	62	95	132	177	237	321	429	576	911	1611	2576
-10°	55	87	121	162	216	288	378	495	690	1101	1794
-12.5°	46	78	108	145	192	251	329	425	542	748	1101
-15°	36	66	95	128	167	216	277	351	441	542	690
-17.5°	31	52	81	109	142	182	229	287	351	425	495
-20°	26	37	65	91	119	150	187	229	277	329	378



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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°	22	30	46	73	96	123	150	182	216	251	288
-25°	19	24	33	51	75	96	119	142	167	192	216
-27.5°	16	20	25	34	51	73	91	109	128	145	162
-30°	12	16	20	25	33	46	65	81	95	108	121
-32.5°	10	13	16	20	24	30	37	52	66	78	87
-35°	8	10	12	16	19	22	26	31	36	46	55
-37.5°	7	8	10	12	14	17	19	22	24	28	31
-40°	6	7	8	9	11	12	14	16	18	20	21
-42.5°	4	5	6	7	8	9	10	12	13	14	15
-45°	3	4	5	6	6	7	8	9	9	10	11
-47.5°	3	3	4	4	5	5	6	7	7	8	8
-50°	2	2	3	3	4	4	4	5	5	6	6
-52.5°	2	2	2	2	3	3	3	4	4	4	4
-55°	1	2	2	2	2	2	2	2	3	3	3
-57.5°	1	1	1	2	2	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	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	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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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	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	2
52.5°	4	4	4	4	4	4	4	4	4	4	4
50°	6	6	7	7	7	6	6	6	6	5	5
47.5°	8	9	9	9	9	9	8	8	8	7	7
45°	11	12	12	12	12	12	11	11	10	9	9
42.5°	16	17	17	18	17	17	16	15	14	13	12
40°	22	23	24	24	24	23	22	21	20	18	16
37.5°	34	36	37	37	37	36	34	31	28	24	22
35°	62	68	71	72	71	68	62	55	46	36	31
32.5°	95	100	104	105	104	100	95	87	78	66	52
30°	132	139	144	145	144	139	132	121	108	95	81
27.5°	177	189	196	199	196	189	177	162	145	128	109
25°	237	255	266	270	266	255	237	216	192	167	142
22.5°	321	346	361	366	361	346	321	288	251	216	182
20°	429	467	491	499	491	467	429	378	329	277	229
17.5°	576	665	737	765	737	665	576	495	425	351	287
15°	911	1156	1354	1421	1354	1156	911	690	542	441	351
12.5°	1611	2104	2445	2564	2445	2104	1611	1101	748	542	425
10°	2576	3198	3573	3702	3573	3198	2576	1794	1101	690	495
7.5°	3451	4087	4487	4622	4487	4087	3451	2576	1611	911	576
5°	4087	4767	5201	5359	5201	4767	4087	3198	2104	1156	665
2.5°	4487	5201	5668	5827	5668	5201	4487	3573	2445	1354	737
0°	4622	5359	5827	6025	5827	5359	4622	3702	2564	1421	765
-2.5°	4487	5201	5668	5827	5668	5201	4487	3573	2445	1354	737
-5°	4087	4767	5201	5359	5201	4767	4087	3198	2104	1156	665
-7.5°	3451	4087	4487	4622	4487	4087	3451	2576	1611	911	576
-10°	2576	3198	3573	3702	3573	3198	2576	1794	1101	690	495
-12.5°	1611	2104	2445	2564	2445	2104	1611	1101	748	542	425
-15°	911	1156	1354	1421	1354	1156	911	690	542	441	351
-17.5°	576	665	737	765	737	665	576	495	425	351	287
-20°	429	467	491	499	491	467	429	378	329	277	229



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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°	321	346	361	366	361	346	321	288	251	216	182
-25°	237	255	266	270	266	255	237	216	192	167	142
-27.5°	177	189	196	199	196	189	177	162	145	128	109
-30°	132	139	144	145	144	139	132	121	108	95	81
-32.5°	95	100	104	105	104	100	95	87	78	66	52
-35°	62	68	71	72	71	68	62	55	46	36	31
-37.5°	34	36	37	37	37	36	34	31	28	24	22
-40°	22	23	24	24	24	23	22	21	20	18	16
-42.5°	16	17	17	18	17	17	16	15	14	13	12
-45°	11	12	12	12	12	12	11	11	10	9	9
-47.5°	8	9	9	9	9	9	8	8	8	7	7
-50°	6	6	7	7	7	6	6	6	6	5	5
-52.5°	4	4	4	4	4	4	4	4	4	4	4
-55°	3	3	3	3	3	3	3	3	3	3	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°	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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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°	1	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	2	1	1	1	1	1	1	1
55°	2	2	2	2	2	2	1	1	1	1	1
52.5°	3	3	3	2	2	2	2	2	1	1	1
50°	4	4	4	3	3	2	2	2	2	1	1
47.5°	6	5	5	4	4	3	3	2	2	2	2
45°	8	7	6	6	5	4	3	3	2	2	2
42.5°	10	9	8	7	6	5	4	4	3	2	2
40°	14	12	11	9	8	7	6	4	4	3	2
37.5°	19	17	14	12	10	8	7	6	4	4	3
35°	26	22	19	16	12	10	8	7	6	4	3
32.5°	37	30	24	20	16	13	10	8	7	5	4
30°	65	46	33	25	20	16	12	10	8	6	5
27.5°	91	73	51	34	25	20	16	12	9	7	6
25°	119	96	75	51	33	24	19	14	11	8	6
22.5°	150	123	96	73	46	30	22	17	12	9	7
20°	187	150	119	91	65	37	26	19	14	10	8
17.5°	229	182	142	109	81	52	31	22	16	12	9
15°	277	216	167	128	95	66	36	24	18	13	9
12.5°	329	251	192	145	108	78	46	28	20	14	10
10°	378	288	216	162	121	87	55	31	21	15	11
7.5°	429	321	237	177	132	95	62	34	22	16	11
5°	467	346	255	189	139	100	68	36	23	17	12
2.5°	491	361	266	196	144	104	71	37	24	17	12
0°	499	366	270	199	145	105	72	37	24	18	12
-2.5°	491	361	266	196	144	104	71	37	24	17	12
-5°	467	346	255	189	139	100	68	36	23	17	12
-7.5°	429	321	237	177	132	95	62	34	22	16	11
-10°	378	288	216	162	121	87	55	31	21	15	11
-12.5°	329	251	192	145	108	78	46	28	20	14	10
-15°	277	216	167	128	95	66	36	24	18	13	9
-17.5°	229	182	142	109	81	52	31	22	16	12	9
-20°	187	150	119	91	65	37	26	19	14	10	8



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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°	150	123	96	73	46	30	22	17	12	9	7
-25°	119	96	75	51	33	24	19	14	11	8	6
-27.5°	91	73	51	34	25	20	16	12	9	7	6
-30°	65	46	33	25	20	16	12	10	8	6	5
-32.5°	37	30	24	20	16	13	10	8	7	5	4
-35°	26	22	19	16	12	10	8	7	6	4	3
-37.5°	19	17	14	12	10	8	7	6	4	4	3
-40°	14	12	11	9	8	7	6	4	4	3	2
-42.5°	10	9	8	7	6	5	4	4	3	2	2
-45°	8	7	6	6	5	4	3	3	2	2	2
-47.5°	6	5	5	4	4	3	3	2	2	2	2
-50°	4	4	4	3	3	2	2	2	2	1	1
-52.5°	3	3	3	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	2	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°	1	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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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	1	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	1	0	0	0	0	0
47.5°	1	1	1	1	1	1	0	0	0	0	0
45°	2	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°	3	2	2	1	1	1	1	1	0	0	0
32.5°	3	2	2	2	1	1	1	1	1	0	0
30°	4	3	2	2	1	1	1	1	1	0	0
27.5°	4	3	2	2	2	1	1	1	1	0	0
25°	5	4	3	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	1	0
17.5°	7	5	4	2	2	2	1	1	1	1	0
15°	7	5	4	3	2	2	1	1	1	1	0
12.5°	8	6	4	3	2	2	1	1	1	1	0
10°	8	6	4	3	2	2	1	1	1	1	0
7.5°	8	6	4	3	2	2	1	1	1	1	0
5°	9	6	4	3	2	2	1	1	1	1	0
2.5°	9	7	4	3	2	2	1	1	1	1	0
0°	9	7	4	3	2	2	1	1	1	1	0
-2.5°	9	7	4	3	2	2	1	1	1	1	0
-5°	9	6	4	3	2	2	1	1	1	1	0
-7.5°	8	6	4	3	2	2	1	1	1	1	0
-10°	8	6	4	3	2	2	1	1	1	1	0
-12.5°	8	6	4	3	2	2	1	1	1	1	0
-15°	7	5	4	3	2	2	1	1	1	1	0
-17.5°	7	5	4	2	2	2	1	1	1	1	0
-20°	6	4	3	2	2	1	1	1	1	1	0



REPORT NUMBER: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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°	5	4	3	2	2	1	1	1	1	0	0
-27.5°	4	3	2	2	2	1	1	1	1	0	0
-30°	4	3	2	2	1	1	1	1	1	0	0
-32.5°	3	2	2	2	1	1	1	1	1	0	0
-35°	3	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°	2	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	1	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	1	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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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: P220412 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED5080-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)