

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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P29419 (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-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

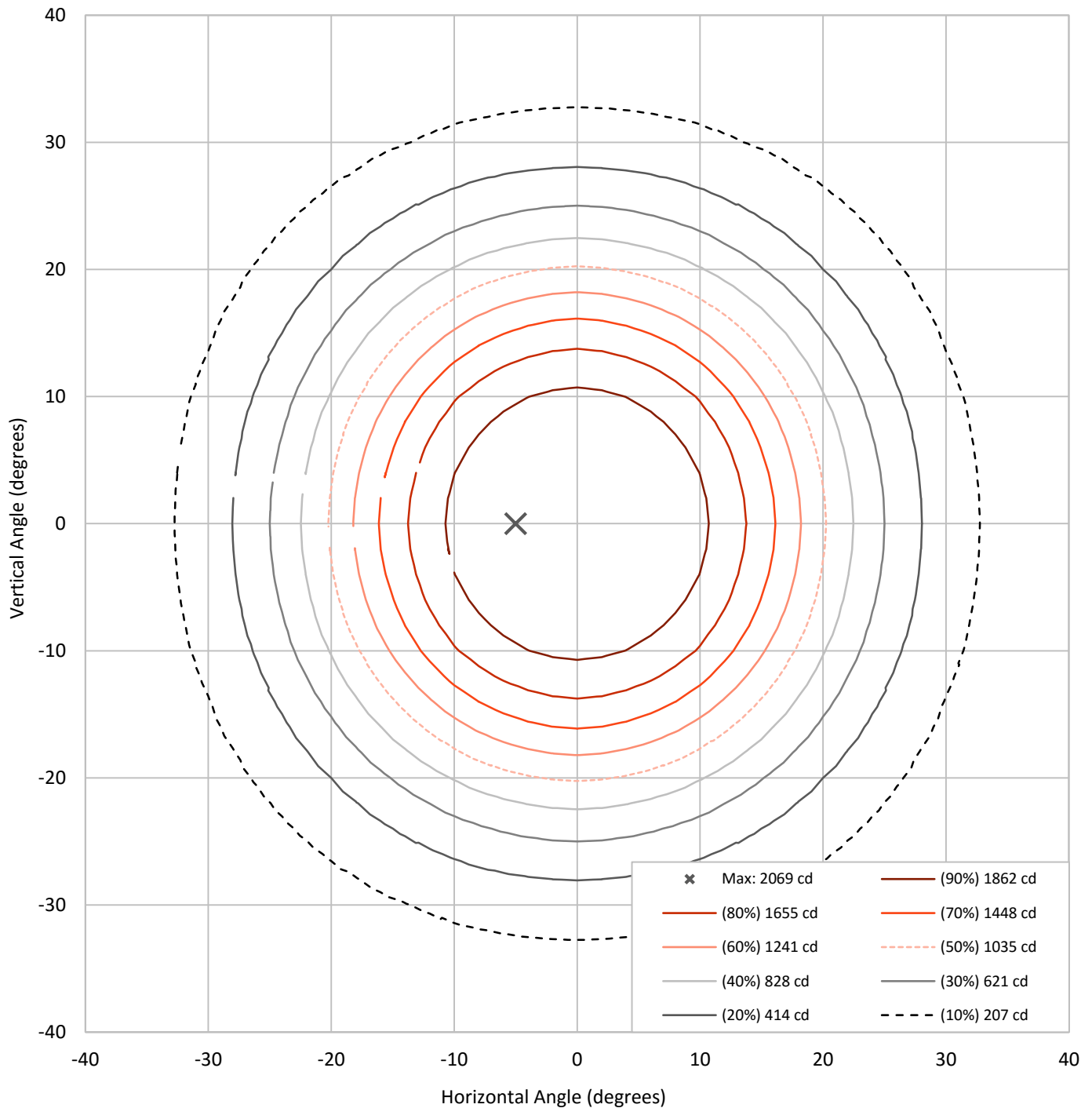
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	1033.6 lumens	Max Intensity:	2069 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	103.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.5°H x 39.3°V	Field Angle (10%):	65.2°H x 64.7°V
Beam Lumens:	621.7 lumens	Field Lumens:	936.1 lumens
Beam Efficiency:	60.2%	Field Efficiency:	90.6%
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-F-WT-L1-UNV

### Iso-Candela Plot





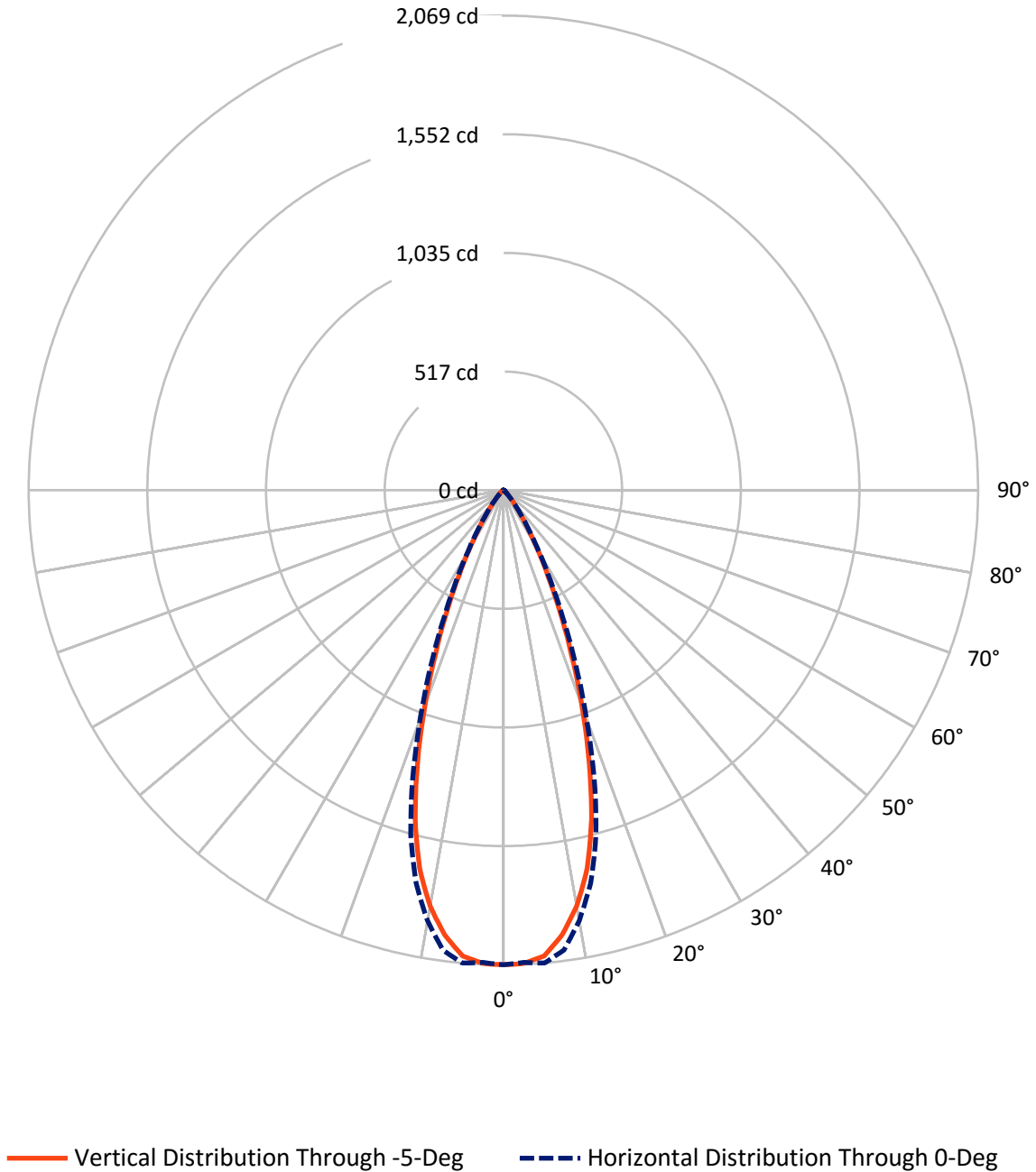
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### Lumen Table

90																			
80	0.0	0.0		0.1	0.2	0.2	0.2	0.1	0.0		0.0								
70																			
60	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0			
50		0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0				
40	0.0	0.0	0.1	0.1	0.2	0.4	0.7	0.9	0.9	0.7	0.4	0.2	0.1	0.1	0.0	0.0			
30		0.1	0.1	0.2	0.5	1.4	3.0	4.5	4.5	3.0	1.4	0.5	0.2	0.1	0.1				
20	0.1	0.1	0.1	0.3	1.2	4.5	11.2	18.0	18.0	11.2	4.5	1.2	0.3	0.1	0.1	0.1			
10		0.1	0.1	0.5	2.6	10.6	27.9	43.5	43.5	27.9	10.6	2.6	0.5	0.1	0.1				
0	0.1	0.1	0.2	0.7	3.8	16.5	42.2	59.8	59.8	42.2	16.5	3.8	0.7	0.2	0.1	0.1			
-10		0.1	0.2	0.7	3.8	16.5	42.2	59.8	59.8	42.2	16.5	3.8	0.7	0.2	0.1				
-20	0.1	0.1	0.1	0.5	2.6	10.6	27.9	43.5	43.5	27.9	10.6	2.6	0.5	0.1	0.1	0.1			
-30		0.1	0.1	0.3	1.2	4.5	11.2	18.0	18.0	11.2	4.5	1.2	0.3	0.1	0.1				
-40	0.0	0.1	0.1	0.2	0.5	1.4	3.0	4.5	4.5	3.0	1.4	0.5	0.2	0.1	0.1	0.0			
-50		0.0	0.1	0.1	0.2	0.4	0.7	0.9	0.9	0.7	0.4	0.2	0.1	0.1	0.0				
-60	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0			
-70		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
-80	0.0	0.0		0.1	0.2	0.2	0.2	0.1	0.0		0.0								
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

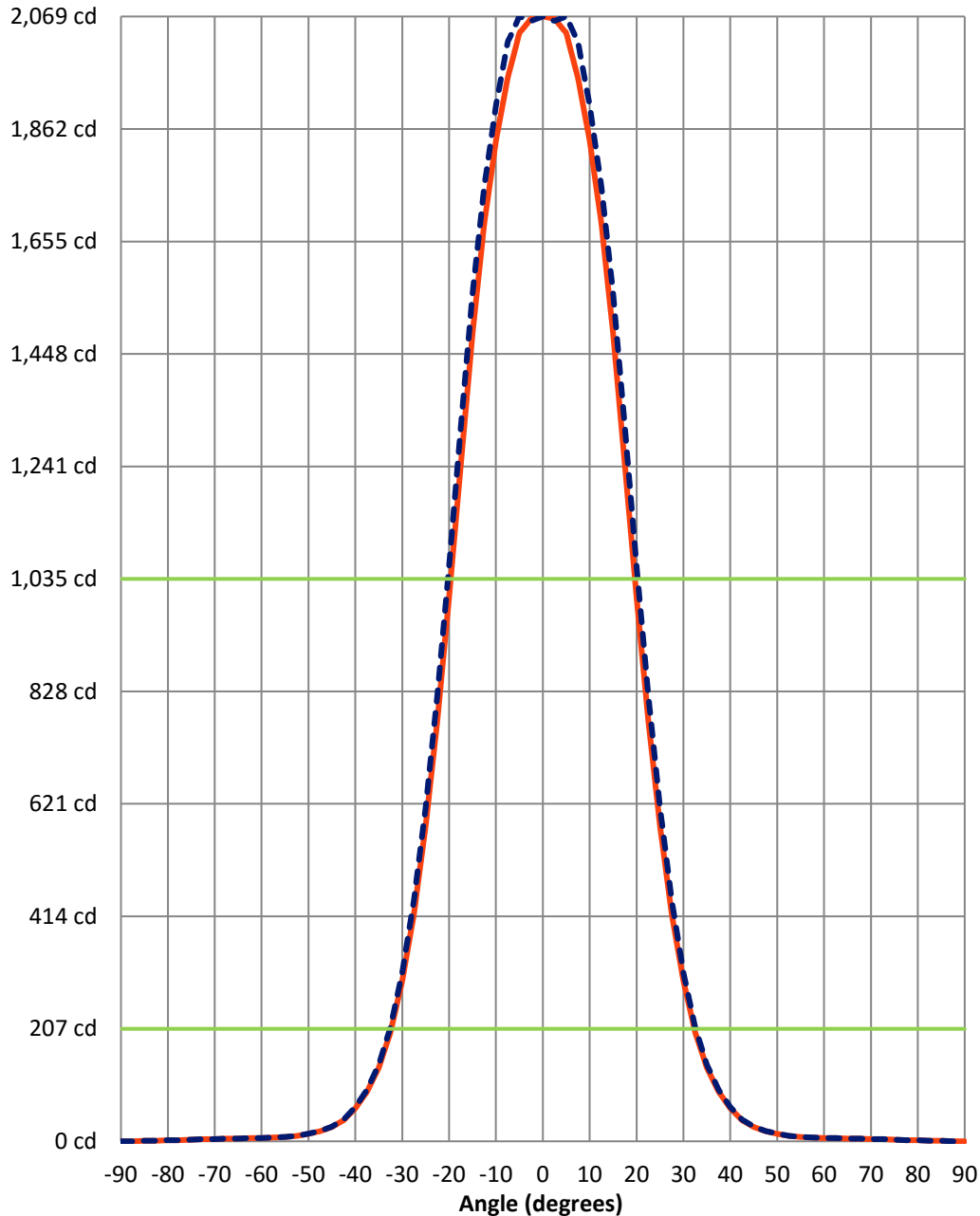
REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-WT-L1-UNV

### Luminous Intensity Polar Plot



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

### Luminous Intensity Plot



**Beam:**  
H Angle: 40.5°  
V Angle: 39.3°  
Lumens: 621.7  
Efficiency: 60.2%

**Field:**  
H Angle: 65.2°  
V Angle: 64.7°  
Lumens: 936.1  
Efficiency: 90.6%

**Spill:**  
Lumens: 97.5  
Efficiency: 9.4%

— Vertical Distribution through -5-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	1	1
77.5°	0	0	0	0	0	0	0	0	1	1	1
75°	0	0	0	0	0	0	1	1	1	1	1
72.5°	0	0	0	0	0	0	1	1	1	1	1
70°	0	0	0	0	0	1	1	1	1	1	1
67.5°	0	0	0	0	1	1	1	1	1	1	2
65°	0	0	0	0	1	1	1	1	1	2	2
62.5°	0	0	0	0	1	1	1	1	2	2	2
60°	0	0	0	0	1	1	1	1	2	2	2
57.5°	0	0	0	1	1	1	1	2	2	2	2
55°	0	0	0	1	1	1	1	2	2	2	3
52.5°	0	0	0	1	1	1	2	2	2	2	3
50°	0	0	0	1	1	1	2	2	2	3	3
47.5°	0	0	0	1	1	1	2	2	2	3	4
45°	0	0	0	1	1	2	2	2	3	3	4
42.5°	0	0	0	1	1	2	2	2	3	4	4
40°	0	0	1	1	1	2	2	2	3	4	4
37.5°	0	0	1	1	1	2	2	3	3	4	4
35°	0	0	1	1	1	2	2	3	4	4	4
32.5°	0	0	1	1	1	2	2	3	4	4	4
30°	0	0	1	1	1	2	2	3	4	4	5
27.5°	0	0	1	1	2	2	2	3	4	4	5
25°	0	0	1	1	2	2	2	3	4	4	5
22.5°	0	0	1	1	2	2	3	3	4	4	5
20°	0	0	1	1	2	2	3	4	4	4	5
17.5°	0	0	1	1	2	2	3	4	4	5	5
15°	0	0	1	1	2	2	3	4	4	5	5
12.5°	0	0	1	1	2	2	3	4	4	5	5
10°	0	0	1	1	2	2	3	4	4	5	5
7.5°	0	0	1	1	2	2	3	4	4	5	5
5°	0	0	1	1	2	2	3	4	4	5	5
2.5°	0	0	1	1	2	2	3	4	4	5	5
0°	0	0	1	1	2	2	3	4	4	5	5
-2.5°	0	0	1	1	2	2	3	4	4	5	5
-5°	0	0	1	1	2	2	3	4	4	5	5
-7.5°	0	0	1	1	2	2	3	4	4	5	5
-10°	0	0	1	1	2	2	3	4	4	5	5
-12.5°	0	0	1	1	2	2	3	4	4	5	5
-15°	0	0	1	1	2	2	3	4	4	5	5
-17.5°	0	0	1	1	2	2	3	4	4	5	5
-20°	0	0	1	1	2	2	3	4	4	4	5



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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	1	1	2	2	3	3	4	4	5
-25°	0	0	1	1	2	2	2	3	4	4	5
-27.5°	0	0	1	1	2	2	2	3	4	4	5
-30°	0	0	1	1	1	2	2	3	4	4	5
-32.5°	0	0	1	1	1	2	2	3	4	4	4
-35°	0	0	1	1	1	2	2	3	4	4	4
-37.5°	0	0	1	1	1	2	2	3	3	4	4
-40°	0	0	1	1	1	2	2	2	3	4	4
-42.5°	0	0	0	1	1	2	2	2	3	4	4
-45°	0	0	0	1	1	2	2	2	3	3	4
-47.5°	0	0	0	1	1	1	2	2	2	3	4
-50°	0	0	0	1	1	1	2	2	2	3	3
-52.5°	0	0	0	1	1	1	2	2	2	2	3
-55°	0	0	0	1	1	1	1	2	2	2	3
-57.5°	0	0	0	1	1	1	1	2	2	2	2
-60°	0	0	0	0	1	1	1	1	2	2	2
-62.5°	0	0	0	0	1	1	1	1	2	2	2
-65°	0	0	0	0	1	1	1	1	1	2	2
-67.5°	0	0	0	0	1	1	1	1	1	1	2
-70°	0	0	0	0	0	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	1	1	1	1	1
-75°	0	0	0	0	0	0	1	1	1	1	1
-77.5°	0	0	0	0	0	0	0	0	1	1	1
-80°	0	0	0	0	0	0	0	0	0	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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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	1	1
82.5°	0	0	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	2	2	2	2
75°	1	1	1	1	2	2	2	2	2	2	2
72.5°	1	1	2	2	2	2	2	2	2	2	3
70°	2	2	2	2	2	2	2	3	3	3	3
67.5°	2	2	2	2	2	3	3	3	4	4	4
65°	2	2	2	3	3	3	4	4	4	4	4
62.5°	2	2	3	3	4	4	4	4	4	4	5
60°	2	3	3	4	4	4	4	4	5	5	5
57.5°	3	3	4	4	4	4	5	5	5	5	5
55°	3	4	4	4	4	5	5	5	5	5	6
52.5°	4	4	4	4	5	5	5	5	6	6	6
50°	4	4	4	5	5	5	5	6	6	6	6
47.5°	4	4	5	5	5	5	6	6	6	6	7
45°	4	4	5	5	5	6	6	6	7	7	8
42.5°	4	5	5	5	6	6	6	7	7	8	9
40°	4	5	5	5	6	6	6	7	8	9	10
37.5°	5	5	5	6	6	6	7	8	9	10	12
35°	5	5	5	6	6	7	7	8	10	12	15
32.5°	5	5	6	6	6	7	8	9	12	14	18
30°	5	5	6	6	7	8	9	10	13	17	22
27.5°	5	6	6	6	7	8	9	12	16	20	26
25°	5	6	6	7	7	9	10	14	18	24	32
22.5°	5	6	6	7	8	9	12	16	20	27	38
20°	5	6	6	7	8	10	13	17	23	32	46
17.5°	5	6	6	7	8	10	14	19	26	37	55
15°	6	6	7	7	9	11	15	21	29	42	63
12.5°	6	6	7	8	9	12	17	23	32	48	73
10°	6	6	7	8	9	13	17	24	35	54	81
7.5°	6	6	7	8	10	13	18	25	37	58	87
5°	6	6	7	8	10	14	19	26	39	61	91
2.5°	6	6	7	8	10	14	19	27	40	62	94
0°	6	6	7	8	10	14	19	27	40	63	95
-2.5°	6	6	7	8	10	14	19	27	40	62	94
-5°	6	6	7	8	10	14	19	26	39	61	91
-7.5°	6	6	7	8	10	13	18	25	37	58	87
-10°	6	6	7	8	9	13	17	24	35	54	81
-12.5°	6	6	7	8	9	12	17	23	32	48	73
-15°	6	6	7	7	9	11	15	21	29	42	63
-17.5°	5	6	6	7	8	10	14	19	26	37	55
-20°	5	6	6	7	8	10	13	17	23	32	46



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	5	6	6	7	8	9	12	16	20	27	38
-25°	5	6	6	7	7	9	10	14	18	24	32
-27.5°	5	6	6	6	7	8	9	12	16	20	26
-30°	5	5	6	6	7	8	9	10	13	17	22
-32.5°	5	5	6	6	6	7	8	9	12	14	18
-35°	5	5	5	6	6	7	7	8	10	12	15
-37.5°	5	5	5	6	6	6	7	8	9	10	12
-40°	4	5	5	5	6	6	6	7	8	9	10
-42.5°	4	5	5	5	6	6	6	7	7	8	9
-45°	4	4	5	5	5	6	6	6	7	7	8
-47.5°	4	4	5	5	5	5	6	6	6	6	7
-50°	4	4	4	5	5	5	5	6	6	6	6
-52.5°	4	4	4	4	5	5	5	5	6	6	6
-55°	3	4	4	4	4	5	5	5	5	5	6
-57.5°	3	3	4	4	4	4	5	5	5	5	5
-60°	2	3	3	4	4	4	4	4	5	5	5
-62.5°	2	2	3	3	4	4	4	4	4	4	5
-65°	2	2	2	3	3	3	4	4	4	4	4
-67.5°	2	2	2	2	2	3	3	3	4	4	4
-70°	2	2	2	2	2	2	2	3	3	3	3
-72.5°	1	1	2	2	2	2	2	2	2	2	3
-75°	1	1	1	1	2	2	2	2	2	2	2
-77.5°	1	1	1	1	1	1	1	2	2	2	2
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	0	1	1	1	1	1	1	1	1	1
-85°	0	0	0	0	0	0	0	0	0	1	1
-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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	1	1	1	2	2	2	2	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	3	3	3	3	3	3
72.5°	3	3	3	3	3	3	4	4	4	4	4
70°	4	4	4	4	4	4	4	4	4	4	4
67.5°	4	4	4	4	4	4	4	5	5	5	5
65°	4	4	5	5	5	5	5	5	5	5	5
62.5°	5	5	5	5	5	5	5	5	6	6	6
60°	5	5	5	6	6	6	6	6	6	6	6
57.5°	5	6	6	6	6	6	6	6	7	7	7
55°	6	6	6	6	7	7	7	7	7	8	8
52.5°	6	6	7	7	7	8	8	8	9	9	9
50°	7	7	8	8	9	9	10	10	11	12	13
47.5°	7	8	9	9	10	12	13	14	15	17	17
45°	8	9	10	12	14	16	17	19	21	23	24
42.5°	10	12	13	16	18	20	23	26	29	32	35
40°	12	14	17	20	24	27	32	37	42	48	54
37.5°	15	18	22	26	32	38	46	55	63	73	81
35°	18	23	28	35	44	55	67	81	92	106	118
32.5°	23	29	37	49	62	78	94	114	133	153	173
30°	28	37	50	65	85	107	131	160	190	219	251
27.5°	35	49	65	87	113	142	181	221	268	310	353
25°	44	62	85	113	147	192	246	302	364	427	487
22.5°	55	78	107	142	192	254	322	401	486	572	652
20°	67	94	131	181	246	322	414	518	628	738	842
17.5°	81	114	160	221	302	401	518	649	785	924	1050
15°	92	133	190	268	364	486	628	785	952	1117	1266
12.5°	106	153	219	310	427	572	738	924	1117	1303	1470
10°	118	173	251	353	487	652	842	1050	1266	1470	1637
7.5°	128	189	276	390	539	721	932	1163	1393	1598	1757
5°	135	201	295	418	580	774	1001	1244	1485	1688	1841
2.5°	140	208	306	437	605	809	1044	1296	1540	1739	1889
0°	141	210	310	444	614	821	1058	1314	1559	1756	1905
-2.5°	140	208	306	437	605	809	1044	1296	1540	1739	1889
-5°	135	201	295	418	580	774	1001	1244	1485	1688	1841
-7.5°	128	189	276	390	539	721	932	1163	1393	1598	1757
-10°	118	173	251	353	487	652	842	1050	1266	1470	1637
-12.5°	106	153	219	310	427	572	738	924	1117	1303	1470
-15°	92	133	190	268	364	486	628	785	952	1117	1266
-17.5°	81	114	160	221	302	401	518	649	785	924	1050
-20°	67	94	131	181	246	322	414	518	628	738	842



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	55	78	107	142	192	254	322	401	486	572	652
-25°	44	62	85	113	147	192	246	302	364	427	487
-27.5°	35	49	65	87	113	142	181	221	268	310	353
-30°	28	37	50	65	85	107	131	160	190	219	251
-32.5°	23	29	37	49	62	78	94	114	133	153	173
-35°	18	23	28	35	44	55	67	81	92	106	118
-37.5°	15	18	22	26	32	38	46	55	63	73	81
-40°	12	14	17	20	24	27	32	37	42	48	54
-42.5°	10	12	13	16	18	20	23	26	29	32	35
-45°	8	9	10	12	14	16	17	19	21	23	24
-47.5°	7	8	9	9	10	12	13	14	15	17	17
-50°	7	7	8	8	9	9	10	10	11	12	13
-52.5°	6	6	7	7	7	8	8	8	9	9	9
-55°	6	6	6	6	7	7	7	7	7	8	8
-57.5°	5	6	6	6	6	6	6	6	7	7	7
-60°	5	5	5	6	6	6	6	6	6	6	6
-62.5°	5	5	5	5	5	5	5	5	6	6	6
-65°	4	4	5	5	5	5	5	5	5	5	5
-67.5°	4	4	4	4	4	4	4	5	5	5	5
-70°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	3	3	3	3	3	3	4	4	4	4	4
-75°	2	2	2	2	2	3	3	3	3	3	3
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	1	1	1	2	2	2	2	2	2	2	2
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	1	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	2	2	2	2	2	2	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	3	3	3	3	3	3	3	3	3	3	3
72.5°	4	4	4	4	4	4	4	4	4	4	4
70°	4	4	4	4	4	4	4	4	4	4	4
67.5°	5	5	5	5	5	5	5	5	5	5	5
65°	5	5	5	5	5	5	5	5	5	5	5
62.5°	6	6	6	6	6	6	6	6	6	6	5
60°	6	6	6	6	6	6	6	6	6	6	6
57.5°	7	7	7	7	7	7	7	7	7	7	6
55°	8	8	8	8	8	8	8	8	8	7	7
52.5°	10	10	10	10	10	10	10	9	9	9	8
50°	13	14	14	14	14	14	13	13	12	11	10
47.5°	18	19	19	19	19	19	18	17	17	15	14
45°	25	26	27	27	27	26	25	24	23	21	19
42.5°	37	39	40	40	40	39	37	35	32	29	26
40°	58	61	62	63	62	61	58	54	48	42	37
37.5°	87	91	94	95	94	91	87	81	73	63	55
35°	128	135	140	141	140	135	128	118	106	92	81
32.5°	189	201	208	210	208	201	189	173	153	133	114
30°	276	295	306	310	306	295	276	251	219	190	160
27.5°	390	418	437	444	437	418	390	353	310	268	221
25°	539	580	605	614	605	580	539	487	427	364	302
22.5°	721	774	809	821	809	774	721	652	572	486	401
20°	932	1001	1044	1058	1044	1001	932	842	738	628	518
17.5°	1163	1244	1296	1314	1296	1244	1163	1050	924	785	649
15°	1393	1485	1540	1559	1540	1485	1393	1266	1117	952	785
12.5°	1598	1688	1739	1756	1739	1688	1598	1470	1303	1117	924
10°	1757	1841	1889	1905	1889	1841	1757	1637	1470	1266	1050
7.5°	1873	1956	2006	2022	2006	1956	1873	1757	1598	1393	1163
5°	1956	2038	2065	2069	2065	2038	1956	1841	1688	1485	1244
2.5°	2006	2065	2066	2061	2066	2065	2006	1889	1739	1540	1296
0°	2022	2069	2061	2069	2061	2069	2022	1905	1756	1559	1314
-2.5°	2006	2065	2066	2061	2066	2065	2006	1889	1739	1540	1296
-5°	1956	2038	2065	2069	2065	2038	1956	1841	1688	1485	1244
-7.5°	1873	1956	2006	2022	2006	1956	1873	1757	1598	1393	1163
-10°	1757	1841	1889	1905	1889	1841	1757	1637	1470	1266	1050
-12.5°	1598	1688	1739	1756	1739	1688	1598	1470	1303	1117	924
-15°	1393	1485	1540	1559	1540	1485	1393	1266	1117	952	785
-17.5°	1163	1244	1296	1314	1296	1244	1163	1050	924	785	649
-20°	932	1001	1044	1058	1044	1001	932	842	738	628	518



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	721	774	809	821	809	774	721	652	572	486	401
-25°	539	580	605	614	605	580	539	487	427	364	302
-27.5°	390	418	437	444	437	418	390	353	310	268	221
-30°	276	295	306	310	306	295	276	251	219	190	160
-32.5°	189	201	208	210	208	201	189	173	153	133	114
-35°	128	135	140	141	140	135	128	118	106	92	81
-37.5°	87	91	94	95	94	91	87	81	73	63	55
-40°	58	61	62	63	62	61	58	54	48	42	37
-42.5°	37	39	40	40	40	39	37	35	32	29	26
-45°	25	26	27	27	27	26	25	24	23	21	19
-47.5°	18	19	19	19	19	19	18	17	17	15	14
-50°	13	14	14	14	14	14	13	13	12	11	10
-52.5°	10	10	10	10	10	10	10	9	9	9	8
-55°	8	8	8	8	8	8	8	8	8	7	7
-57.5°	7	7	7	7	7	7	7	7	7	7	6
-60°	6	6	6	6	6	6	6	6	6	6	6
-62.5°	6	6	6	6	6	6	6	6	6	6	5
-65°	5	5	5	5	5	5	5	5	5	5	5
-67.5°	5	5	5	5	5	5	5	5	5	5	5
-70°	4	4	4	4	4	4	4	4	4	4	4
-72.5°	4	4	4	4	4	4	4	4	4	4	4
-75°	3	3	3	3	3	3	3	3	3	3	3
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	2	2	2	2	2	2	2	2	2	2	2
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	1	1
-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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	1	1	1	1	1	1	1	1	0	0
82.5°	1	1	1	1	1	1	1	1	1	1	1
80°	2	2	2	2	1	1	1	1	1	1	1
77.5°	2	2	2	2	2	2	2	2	2	2	2
75°	3	3	2	2	2	2	2	2	2	2	2
72.5°	4	3	3	3	3	3	3	3	2	2	2
70°	4	4	4	4	4	4	4	3	3	3	3
67.5°	4	4	4	4	4	4	4	4	4	4	3
65°	5	5	5	5	5	4	4	4	4	4	4
62.5°	5	5	5	5	5	5	5	5	4	4	4
60°	6	6	6	6	5	5	5	5	5	5	4
57.5°	6	6	6	6	6	6	5	5	5	5	5
55°	7	7	7	6	6	6	6	6	5	5	5
52.5°	8	8	7	7	7	6	6	6	6	6	5
50°	10	9	9	8	8	7	7	6	6	6	6
47.5°	13	12	10	9	9	8	7	7	6	6	6
45°	17	16	14	12	10	9	8	8	7	7	6
42.5°	23	20	18	16	13	12	10	9	8	7	7
40°	32	27	24	20	17	14	12	10	9	8	7
37.5°	46	38	32	26	22	18	15	12	10	9	8
35°	67	55	44	35	28	23	18	15	12	10	8
32.5°	94	78	62	49	37	29	23	18	14	12	9
30°	131	107	85	65	50	37	28	22	17	13	10
27.5°	181	142	113	87	65	49	35	26	20	16	12
25°	246	192	147	113	85	62	44	32	24	18	14
22.5°	322	254	192	142	107	78	55	38	27	20	16
20°	414	322	246	181	131	94	67	46	32	23	17
17.5°	518	401	302	221	160	114	81	55	37	26	19
15°	628	486	364	268	190	133	92	63	42	29	21
12.5°	738	572	427	310	219	153	106	73	48	32	23
10°	842	652	487	353	251	173	118	81	54	35	24
7.5°	932	721	539	390	276	189	128	87	58	37	25
5°	1001	774	580	418	295	201	135	91	61	39	26
2.5°	1044	809	605	437	306	208	140	94	62	40	27
0°	1058	821	614	444	310	210	141	95	63	40	27
-2.5°	1044	809	605	437	306	208	140	94	62	40	27
-5°	1001	774	580	418	295	201	135	91	61	39	26
-7.5°	932	721	539	390	276	189	128	87	58	37	25
-10°	842	652	487	353	251	173	118	81	54	35	24
-12.5°	738	572	427	310	219	153	106	73	48	32	23
-15°	628	486	364	268	190	133	92	63	42	29	21
-17.5°	518	401	302	221	160	114	81	55	37	26	19
-20°	414	322	246	181	131	94	67	46	32	23	17



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	322	254	192	142	107	78	55	38	27	20	16
-25°	246	192	147	113	85	62	44	32	24	18	14
-27.5°	181	142	113	87	65	49	35	26	20	16	12
-30°	131	107	85	65	50	37	28	22	17	13	10
-32.5°	94	78	62	49	37	29	23	18	14	12	9
-35°	67	55	44	35	28	23	18	15	12	10	8
-37.5°	46	38	32	26	22	18	15	12	10	9	8
-40°	32	27	24	20	17	14	12	10	9	8	7
-42.5°	23	20	18	16	13	12	10	9	8	7	7
-45°	17	16	14	12	10	9	8	8	7	7	6
-47.5°	13	12	10	9	9	8	7	7	6	6	6
-50°	10	9	9	8	8	7	7	6	6	6	6
-52.5°	8	8	7	7	7	6	6	6	6	6	5
-55°	7	7	7	6	6	6	6	6	5	5	5
-57.5°	6	6	6	6	6	6	5	5	5	5	5
-60°	6	6	6	6	5	5	5	5	5	5	4
-62.5°	5	5	5	5	5	5	5	5	4	4	4
-65°	5	5	5	5	5	4	4	4	4	4	4
-67.5°	4	4	4	4	4	4	4	4	4	4	3
-70°	4	4	4	4	4	4	4	3	3	3	3
-72.5°	4	3	3	3	3	3	3	3	2	2	2
-75°	3	3	2	2	2	2	2	2	2	2	2
-77.5°	2	2	2	2	2	2	2	2	2	2	2
-80°	2	2	2	2	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-85°	1	1	1	1	1	1	1	1	1	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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	1	1	1	1	0	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	1	0	0
77.5°	1	1	1	1	1	1	1	1	1	1	0
75°	2	2	2	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	2	1	1	1	1	1	1
70°	2	2	2	2	2	2	2	1	1	1	1
67.5°	3	3	2	2	2	2	2	2	1	1	1
65°	4	3	3	3	2	2	2	2	2	1	1
62.5°	4	4	4	3	3	2	2	2	2	2	1
60°	4	4	4	4	3	3	2	2	2	2	1
57.5°	5	4	4	4	4	3	3	2	2	2	2
55°	5	5	4	4	4	4	3	3	2	2	2
52.5°	5	5	5	4	4	4	4	3	2	2	2
50°	5	5	5	5	4	4	4	3	3	2	2
47.5°	6	5	5	5	5	4	4	4	3	2	2
45°	6	6	5	5	5	4	4	4	3	3	2
42.5°	6	6	6	5	5	5	4	4	4	3	2
40°	6	6	6	5	5	5	4	4	4	3	2
37.5°	7	6	6	6	5	5	5	4	4	3	3
35°	7	7	6	6	5	5	5	4	4	4	3
32.5°	8	7	6	6	6	5	5	4	4	4	3
30°	9	8	7	6	6	5	5	5	4	4	3
27.5°	9	8	7	6	6	6	5	5	4	4	3
25°	10	9	7	7	6	6	5	5	4	4	3
22.5°	12	9	8	7	6	6	5	5	4	4	3
20°	13	10	8	7	6	6	5	5	4	4	4
17.5°	14	10	8	7	6	6	5	5	5	4	4
15°	15	11	9	7	7	6	6	5	5	4	4
12.5°	17	12	9	8	7	6	6	5	5	4	4
10°	17	13	9	8	7	6	6	5	5	4	4
7.5°	18	13	10	8	7	6	6	5	5	4	4
5°	19	14	10	8	7	6	6	5	5	4	4
2.5°	19	14	10	8	7	6	6	5	5	4	4
0°	19	14	10	8	7	6	6	5	5	4	4
-2.5°	19	14	10	8	7	6	6	5	5	4	4
-5°	19	14	10	8	7	6	6	5	5	4	4
-7.5°	18	13	10	8	7	6	6	5	5	4	4
-10°	17	13	9	8	7	6	6	5	5	4	4
-12.5°	17	12	9	8	7	6	6	5	5	4	4
-15°	15	11	9	7	7	6	6	5	5	4	4
-17.5°	14	10	8	7	6	6	5	5	5	4	4
-20°	13	10	8	7	6	6	5	5	4	4	4



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	12	9	8	7	6	6	5	5	4	4	3
-25°	10	9	7	7	6	6	5	5	4	4	3
-27.5°	9	8	7	6	6	6	5	5	4	4	3
-30°	9	8	7	6	6	5	5	5	4	4	3
-32.5°	8	7	6	6	6	5	5	4	4	4	3
-35°	7	7	6	6	5	5	5	4	4	4	3
-37.5°	7	6	6	6	5	5	5	4	4	3	3
-40°	6	6	6	5	5	5	4	4	4	3	2
-42.5°	6	6	6	5	5	5	4	4	4	3	2
-45°	6	6	5	5	5	4	4	4	3	3	2
-47.5°	6	5	5	5	5	4	4	4	3	2	2
-50°	5	5	5	5	4	4	4	3	3	2	2
-52.5°	5	5	5	4	4	4	4	3	2	2	2
-55°	5	5	4	4	4	4	3	3	2	2	2
-57.5°	5	4	4	4	4	3	3	2	2	2	2
-60°	4	4	4	4	3	3	2	2	2	2	1
-62.5°	4	4	4	3	3	2	2	2	2	2	1
-65°	4	3	3	3	2	2	2	2	2	1	1
-67.5°	3	3	2	2	2	2	2	2	1	1	1
-70°	2	2	2	2	2	2	2	1	1	1	1
-72.5°	2	2	2	2	2	1	1	1	1	1	1
-75°	2	2	2	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	0
-80°	1	1	1	1	1	1	1	1	1	0	0
-82.5°	1	1	1	1	1	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: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	0	0	0	0	0	0
72.5°	1	0	0	0	0	0	0
70°	1	1	0	0	0	0	0
67.5°	1	1	1	0	0	0	0
65°	1	1	1	0	0	0	0
62.5°	1	1	1	0	0	0	0
60°	1	1	1	0	0	0	0
57.5°	1	1	1	1	0	0	0
55°	1	1	1	1	0	0	0
52.5°	2	1	1	1	0	0	0
50°	2	1	1	1	0	0	0
47.5°	2	1	1	1	0	0	0
45°	2	2	1	1	0	0	0
42.5°	2	2	1	1	0	0	0
40°	2	2	1	1	1	0	0
37.5°	2	2	1	1	1	0	0
35°	2	2	1	1	1	0	0
32.5°	2	2	1	1	1	0	0
30°	2	2	1	1	1	0	0
27.5°	2	2	2	1	1	0	0
25°	2	2	2	1	1	0	0
22.5°	3	2	2	1	1	0	0
20°	3	2	2	1	1	0	0
17.5°	3	2	2	1	1	0	0
15°	3	2	2	1	1	0	0
12.5°	3	2	2	1	1	0	0
10°	3	2	2	1	1	0	0
7.5°	3	2	2	1	1	0	0
5°	3	2	2	1	1	0	0
2.5°	3	2	2	1	1	0	0
0°	3	2	2	1	1	0	0
-2.5°	3	2	2	1	1	0	0
-5°	3	2	2	1	1	0	0
-7.5°	3	2	2	1	1	0	0
-10°	3	2	2	1	1	0	0
-12.5°	3	2	2	1	1	0	0
-15°	3	2	2	1	1	0	0
-17.5°	3	2	2	1	1	0	0
-20°	3	2	2	1	1	0	0



REPORT NUMBER: P29419 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	3	2	2	1	1	0	0
-25°	2	2	2	1	1	0	0
-27.5°	2	2	2	1	1	0	0
-30°	2	2	1	1	1	0	0
-32.5°	2	2	1	1	1	0	0
-35°	2	2	1	1	1	0	0
-37.5°	2	2	1	1	1	0	0
-40°	2	2	1	1	1	0	0
-42.5°	2	2	1	1	0	0	0
-45°	2	2	1	1	0	0	0
-47.5°	2	1	1	1	0	0	0
-50°	2	1	1	1	0	0	0
-52.5°	2	1	1	1	0	0	0
-55°	1	1	1	1	0	0	0
-57.5°	1	1	1	1	0	0	0
-60°	1	1	1	0	0	0	0
-62.5°	1	1	1	0	0	0	0
-65°	1	1	1	0	0	0	0
-67.5°	1	1	1	0	0	0	0
-70°	1	1	0	0	0	0	0
-72.5°	1	0	0	0	0	0	0
-75°	1	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)