

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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P29423 (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-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

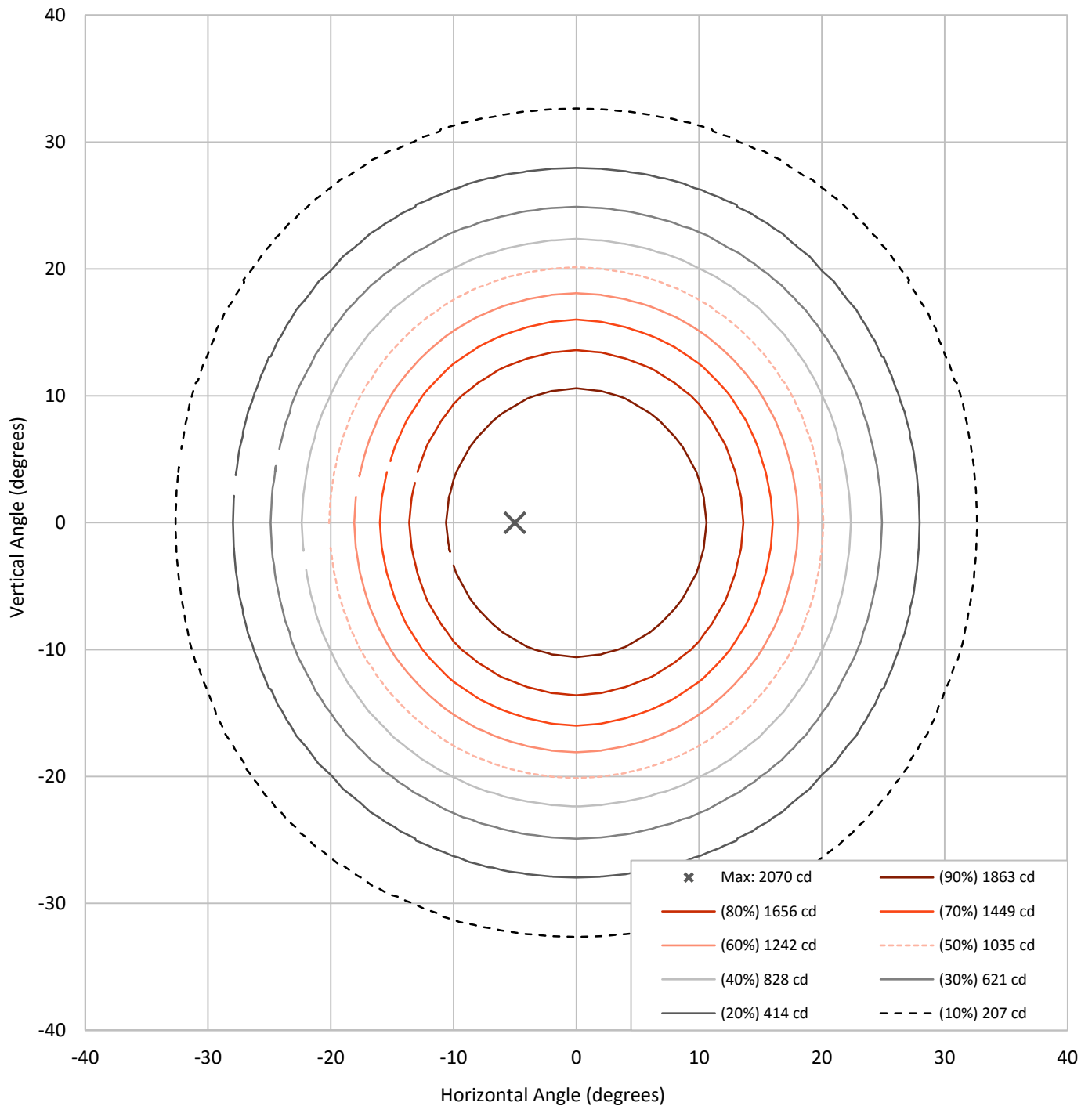
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	1013.9 lumens	Max Intensity:	2070 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x 0°V
Efficacy:	101.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	40.3°H x 39.1°V	Field Angle (10%):	65°H x 64.5°V
Beam Lumens:	618.3 lumens	Field Lumens:	926 lumens
Beam Efficiency:	61.0%	Field Efficiency:	91.3%
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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot





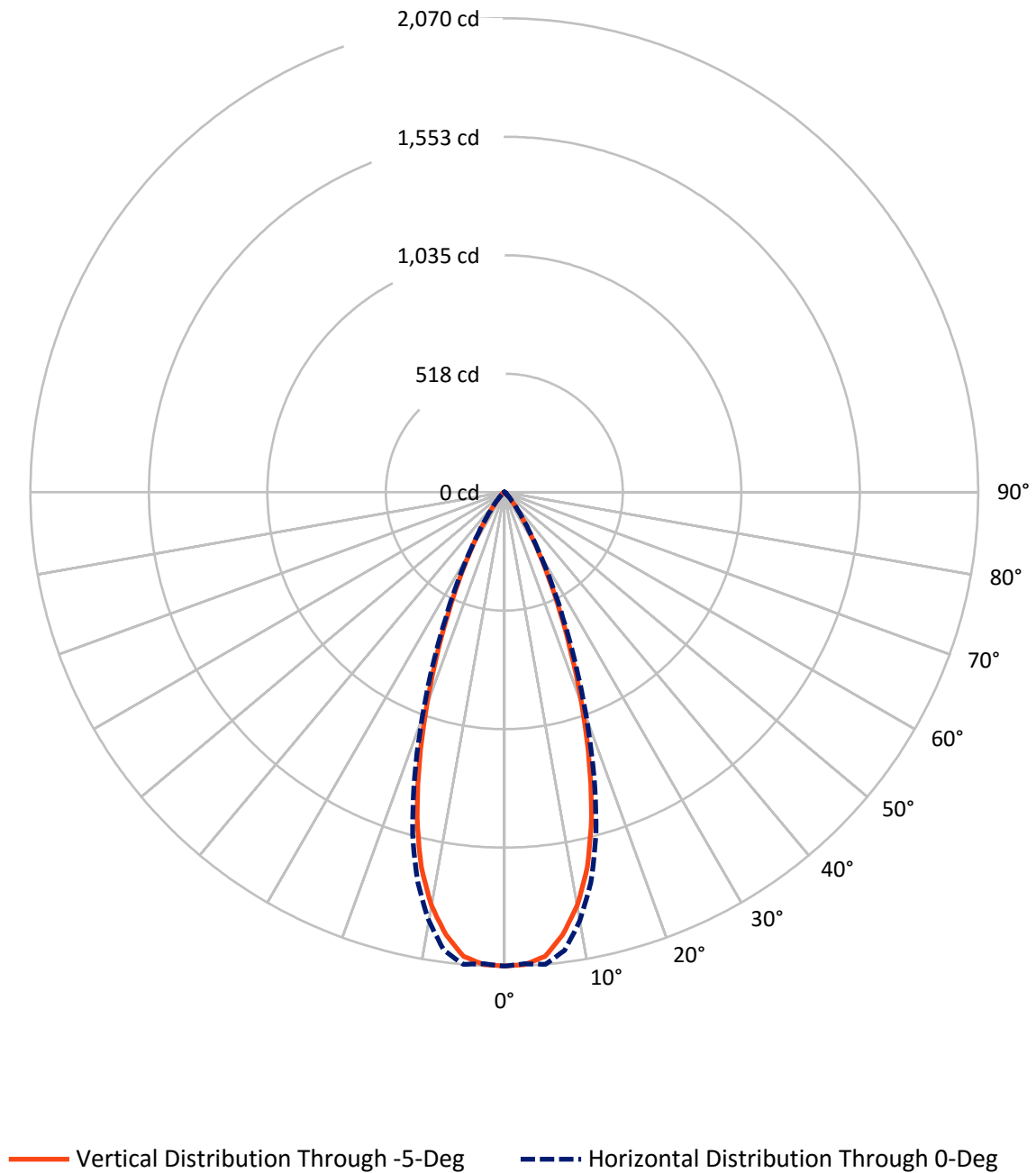
REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-L1-UNV

Lumen Table

90	0.0															
80	0.0															
70	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	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	
50	0.0	0.0	0.0	0.1	0.2	0.3	0.6	0.8	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0
40		0.0	0.1	0.1	0.4	1.3	2.9	4.4	4.4	2.9	1.3	0.4	0.1	0.1	0.0	
30	0.0	0.0	0.1	0.3	1.2	4.4	11.1	17.8	17.8	11.1	4.4	1.2	0.3	0.1	0.0	0.0
20		0.0	0.1	0.4	2.5	10.5	27.6	43.1	43.1	27.6	10.5	2.5	0.4	0.1	0.0	
10	0.0	0.0	0.1	0.6	3.7	16.3	41.9	59.7	59.7	41.9	16.3	3.7	0.6	0.1	0.0	0.0
0		0.0	0.1	0.6	3.7	16.3	41.9	59.7	59.7	41.9	16.3	3.7	0.6	0.1	0.0	
-10	0.0	0.0	0.1	0.6	3.7	16.3	41.9	59.7	59.7	41.9	16.3	3.7	0.6	0.1	0.0	0.0
-20		0.0	0.1	0.4	2.5	10.5	27.6	43.1	43.1	27.6	10.5	2.5	0.4	0.1	0.0	
-30	0.0	0.0	0.1	0.3	1.2	4.4	11.1	17.8	17.8	11.1	4.4	1.2	0.3	0.1	0.0	0.0
-40		0.0	0.1	0.1	0.4	1.3	2.9	4.4	4.4	2.9	1.3	0.4	0.1	0.1	0.0	
-50	0.0	0.0	0.0	0.1	0.2	0.3	0.6	0.8	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0
-60		0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	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	0.1	0.1	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															

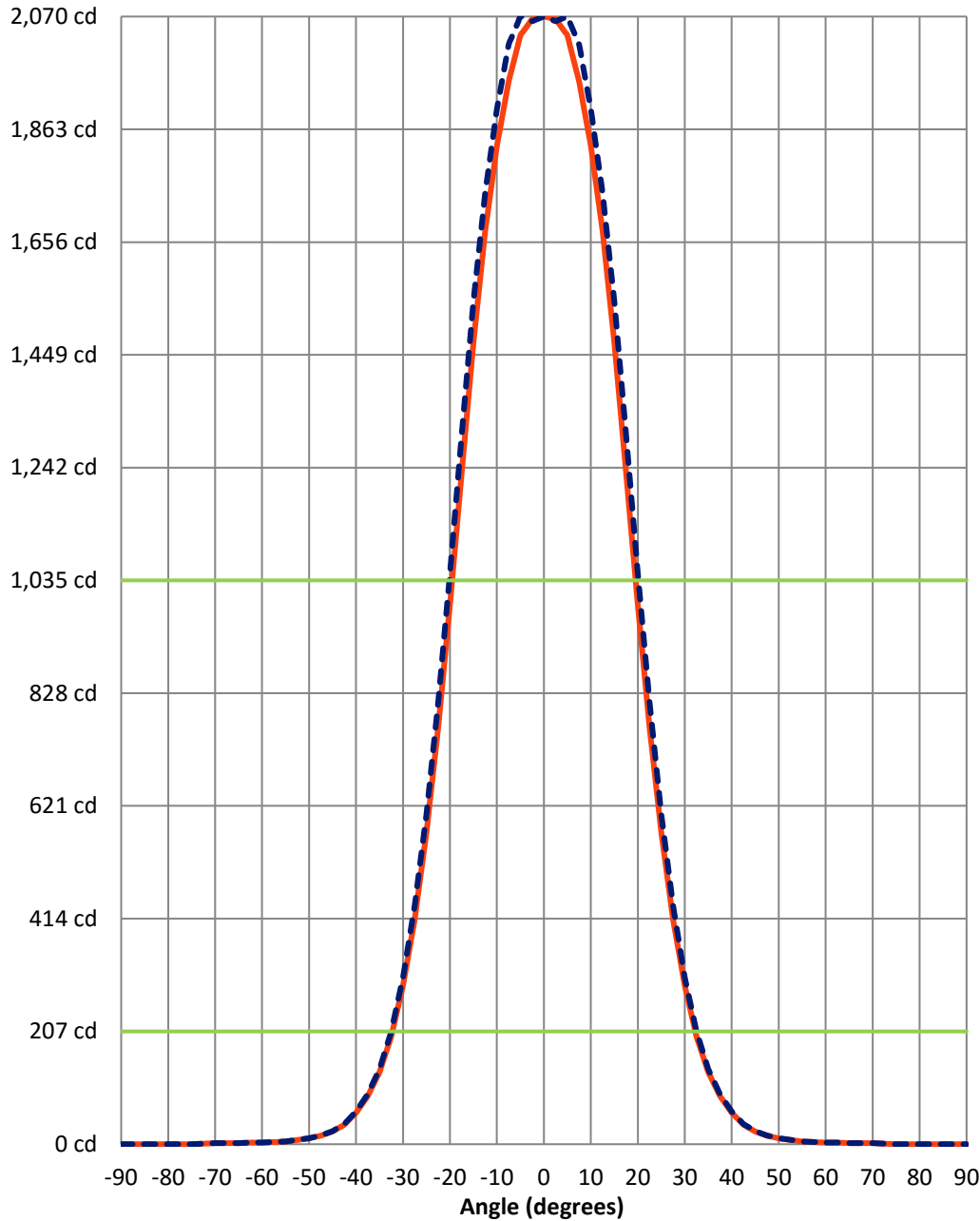
REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 40.3°
 V Angle: 39.1°
 Lumens: 618.3
 Efficiency: 61.0%

Field:
 H Angle: 65°
 V Angle: 64.5°
 Lumens: 926
 Efficiency: 91.3%

Spill:
 Lumens: 87.9
 Efficiency: 8.7%

- Vertical Distribution through -5-Deg
- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-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	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	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	1	1
40°	0	0	0	0	0	0	0	0	0	1	2
37.5°	0	0	0	0	0	0	0	0	0	1	2
35°	0	0	0	0	0	0	0	0	1	1	2
32.5°	0	0	0	0	0	0	0	0	1	2	2
30°	0	0	0	0	0	0	0	0	1	2	2
27.5°	0	0	0	0	0	0	0	0	1	2	2
25°	0	0	0	0	0	0	0	0	1	2	2
22.5°	0	0	0	0	0	0	0	0	1	2	2
20°	0	0	0	0	0	0	0	1	1	2	2
17.5°	0	0	0	0	0	0	0	1	2	2	2
15°	0	0	0	0	0	0	0	1	2	2	2
12.5°	0	0	0	0	0	0	0	1	2	2	2
10°	0	0	0	0	0	0	0	1	2	2	2
7.5°	0	0	0	0	0	0	0	1	2	2	2
5°	0	0	0	0	0	0	0	1	2	2	2
2.5°	0	0	0	0	0	0	0	1	2	2	2
0°	0	0	0	0	0	0	0	1	2	2	2
-2.5°	0	0	0	0	0	0	0	1	2	2	2
-5°	0	0	0	0	0	0	0	1	2	2	2
-7.5°	0	0	0	0	0	0	0	1	2	2	2
-10°	0	0	0	0	0	0	0	1	2	2	2
-12.5°	0	0	0	0	0	0	0	1	2	2	2
-15°	0	0	0	0	0	0	0	1	2	2	2
-17.5°	0	0	0	0	0	0	0	1	2	2	2
-20°	0	0	0	0	0	0	0	1	1	2	2



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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	1	2	2
-25°	0	0	0	0	0	0	0	0	1	2	2
-27.5°	0	0	0	0	0	0	0	0	1	2	2
-30°	0	0	0	0	0	0	0	0	1	2	2
-32.5°	0	0	0	0	0	0	0	0	1	2	2
-35°	0	0	0	0	0	0	0	0	1	1	2
-37.5°	0	0	0	0	0	0	0	0	0	1	2
-40°	0	0	0	0	0	0	0	0	0	1	2
-42.5°	0	0	0	0	0	0	0	0	0	1	1
-45°	0	0	0	0	0	0	0	0	0	0	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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	1	1	1
65°	0	0	0	0	0	0	1	1	1	2	2
62.5°	0	0	0	0	1	1	1	2	2	2	2
60°	0	0	0	1	1	1	2	2	2	2	2
57.5°	0	0	1	1	2	2	2	2	2	2	2
55°	0	1	1	2	2	2	2	2	2	2	3
52.5°	1	1	2	2	2	2	2	2	3	3	3
50°	1	1	2	2	2	2	2	3	3	3	3
47.5°	1	2	2	2	2	2	3	3	3	3	4
45°	2	2	2	2	2	3	3	3	4	4	5
42.5°	2	2	2	2	3	3	3	4	4	5	6
40°	2	2	2	2	3	3	3	4	5	6	8
37.5°	2	2	2	3	3	3	4	5	6	8	10
35°	2	2	2	3	3	4	4	5	8	10	12
32.5°	2	2	3	3	3	4	5	7	9	11	15
30°	2	2	3	3	4	5	6	8	11	14	19
27.5°	2	3	3	3	4	5	7	10	13	17	23
25°	2	3	3	4	4	6	8	11	15	21	29
22.5°	2	3	3	4	5	7	9	13	17	24	35
20°	2	3	3	4	5	8	10	14	20	29	43
17.5°	2	3	3	4	6	8	11	16	23	34	52
15°	3	3	4	4	6	9	12	18	26	39	60
12.5°	3	3	4	5	7	10	14	20	29	45	70
10°	3	3	4	5	7	10	14	21	32	51	78
7.5°	3	3	4	5	8	11	15	22	34	55	84
5°	3	3	4	5	8	11	16	23	36	58	88
2.5°	3	3	4	5	8	11	16	24	37	59	91
0°	3	3	4	5	8	11	16	24	37	60	92
-2.5°	3	3	4	5	8	11	16	24	37	59	91
-5°	3	3	4	5	8	11	16	23	36	58	88
-7.5°	3	3	4	5	8	11	15	22	34	55	84
-10°	3	3	4	5	7	10	14	21	32	51	78
-12.5°	3	3	4	5	7	10	14	20	29	45	70
-15°	3	3	4	4	6	9	12	18	26	39	60
-17.5°	2	3	3	4	6	8	11	16	23	34	52
-20°	2	3	3	4	5	8	10	14	20	29	43



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	2	3	3	4	5	7	9	13	17	24	35
-25°	2	3	3	4	4	6	8	11	15	21	29
-27.5°	2	3	3	3	4	5	7	10	13	17	23
-30°	2	2	3	3	4	5	6	8	11	14	19
-32.5°	2	2	3	3	3	4	5	7	9	11	15
-35°	2	2	2	3	3	4	4	5	8	10	12
-37.5°	2	2	2	3	3	3	4	5	6	8	10
-40°	2	2	2	2	3	3	3	4	5	6	8
-42.5°	2	2	2	2	3	3	3	4	4	5	6
-45°	2	2	2	2	2	3	3	3	4	4	5
-47.5°	1	2	2	2	2	2	3	3	3	3	4
-50°	1	1	2	2	2	2	2	3	3	3	3
-52.5°	1	1	2	2	2	2	2	2	3	3	3
-55°	0	1	1	2	2	2	2	2	2	2	3
-57.5°	0	0	1	1	2	2	2	2	2	2	2
-60°	0	0	0	1	1	1	2	2	2	2	2
-62.5°	0	0	0	0	1	1	1	2	2	2	2
-65°	0	0	0	0	0	0	1	1	1	2	2
-67.5°	0	0	0	0	0	0	0	0	1	1	1
-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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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	1	1	1	1	1
70°	1	1	1	1	1	1	1	2	2	2	2
67.5°	1	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	3	3	3
60°	2	2	2	3	3	3	3	3	3	3	3
57.5°	2	3	3	3	3	3	3	3	4	4	4
55°	3	3	3	3	4	4	4	4	4	5	5
52.5°	3	3	4	4	4	5	5	6	6	7	7
50°	4	4	5	5	6	7	8	8	9	10	10
47.5°	4	5	6	7	8	9	10	11	12	14	14
45°	5	7	8	10	11	13	14	16	18	20	21
42.5°	8	9	11	13	15	17	20	23	26	29	32
40°	10	11	14	17	21	24	29	34	39	45	51
37.5°	12	15	19	23	29	35	43	52	60	70	78
35°	15	20	25	32	41	52	64	78	89	103	115
32.5°	20	26	34	46	59	75	91	111	130	150	170
30°	25	34	47	62	82	104	128	157	187	216	248
27.5°	32	46	62	84	110	139	178	218	265	306	348
25°	41	59	82	110	144	189	242	298	359	422	482
22.5°	52	75	104	139	189	251	318	396	480	564	644
20°	64	91	128	178	242	318	409	512	620	730	832
17.5°	78	111	157	218	298	396	512	641	776	913	1040
15°	89	130	187	265	359	480	620	776	941	1105	1255
12.5°	103	150	216	306	422	564	730	913	1105	1291	1456
10°	115	170	248	348	482	644	832	1040	1255	1456	1624
7.5°	125	186	273	385	532	713	921	1150	1380	1586	1748
5°	132	198	291	413	573	765	990	1233	1472	1676	1833
2.5°	137	205	302	432	598	800	1033	1285	1528	1729	1883
0°	138	207	306	439	606	812	1048	1303	1547	1746	1900
-2.5°	137	205	302	432	598	800	1033	1285	1528	1729	1883
-5°	132	198	291	413	573	765	990	1233	1472	1676	1833
-7.5°	125	186	273	385	532	713	921	1150	1380	1586	1748
-10°	115	170	248	348	482	644	832	1040	1255	1456	1624
-12.5°	103	150	216	306	422	564	730	913	1105	1291	1456
-15°	89	130	187	265	359	480	620	776	941	1105	1255
-17.5°	78	111	157	218	298	396	512	641	776	913	1040
-20°	64	91	128	178	242	318	409	512	620	730	832



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	52	75	104	139	189	251	318	396	480	564	644
-25°	41	59	82	110	144	189	242	298	359	422	482
-27.5°	32	46	62	84	110	139	178	218	265	306	348
-30°	25	34	47	62	82	104	128	157	187	216	248
-32.5°	20	26	34	46	59	75	91	111	130	150	170
-35°	15	20	25	32	41	52	64	78	89	103	115
-37.5°	12	15	19	23	29	35	43	52	60	70	78
-40°	10	11	14	17	21	24	29	34	39	45	51
-42.5°	8	9	11	13	15	17	20	23	26	29	32
-45°	5	7	8	10	11	13	14	16	18	20	21
-47.5°	4	5	6	7	8	9	10	11	12	14	14
-50°	4	4	5	5	6	7	8	8	9	10	10
-52.5°	3	3	4	4	4	5	5	6	6	7	7
-55°	3	3	3	3	4	4	4	4	4	5	5
-57.5°	2	3	3	3	3	3	3	3	4	4	4
-60°	2	2	2	3	3	3	3	3	3	3	3
-62.5°	2	2	2	2	2	2	2	2	3	3	3
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	2	2	2	2	2	2	2	2	2	2
-70°	1	1	1	1	1	1	1	2	2	2	2
-72.5°	0	0	0	0	0	0	1	1	1	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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	1	1	1	1	1	1	1	1	1	1
70°	2	2	2	2	2	2	2	2	2	2	2
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°	3	3	3	3	3	3	3	3	3	3	2
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	4	4	4	4	4	4	4	4	4	4	3
55°	5	5	5	5	5	5	5	5	5	4	4
52.5°	8	8	8	8	8	8	8	7	7	6	6
50°	11	11	11	11	11	11	11	10	10	9	8
47.5°	15	16	16	16	16	16	15	14	14	12	11
45°	22	23	24	24	24	23	22	21	20	18	16
42.5°	34	36	37	37	37	36	34	32	29	26	23
40°	55	58	59	60	59	58	55	51	45	39	34
37.5°	84	88	91	92	91	88	84	78	70	60	52
35°	125	132	137	138	137	132	125	115	103	89	78
32.5°	186	198	205	207	205	198	186	170	150	130	111
30°	273	291	302	306	302	291	273	248	216	187	157
27.5°	385	413	432	439	432	413	385	348	306	265	218
25°	532	573	598	606	598	573	532	482	422	359	298
22.5°	713	765	800	812	800	765	713	644	564	480	396
20°	921	990	1033	1048	1033	990	921	832	730	620	512
17.5°	1150	1233	1285	1303	1285	1233	1150	1040	913	776	641
15°	1380	1472	1528	1547	1528	1472	1380	1255	1105	941	776
12.5°	1586	1676	1729	1746	1729	1676	1586	1456	1291	1105	913
10°	1748	1833	1883	1900	1883	1833	1748	1624	1456	1255	1040
7.5°	1866	1951	2003	2019	2003	1951	1866	1748	1586	1380	1150
5°	1951	2035	2065	2070	2065	2035	1951	1833	1676	1472	1233
2.5°	2003	2065	2067	2062	2067	2065	2003	1883	1729	1528	1285
0°	2019	2070	2062	2070	2062	2070	2019	1900	1746	1547	1303
-2.5°	2003	2065	2067	2062	2067	2065	2003	1883	1729	1528	1285
-5°	1951	2035	2065	2070	2065	2035	1951	1833	1676	1472	1233
-7.5°	1866	1951	2003	2019	2003	1951	1866	1748	1586	1380	1150
-10°	1748	1833	1883	1900	1883	1833	1748	1624	1456	1255	1040
-12.5°	1586	1676	1729	1746	1729	1676	1586	1456	1291	1105	913
-15°	1380	1472	1528	1547	1528	1472	1380	1255	1105	941	776
-17.5°	1150	1233	1285	1303	1285	1233	1150	1040	913	776	641
-20°	921	990	1033	1048	1033	990	921	832	730	620	512



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	713	765	800	812	800	765	713	644	564	480	396
-25°	532	573	598	606	598	573	532	482	422	359	298
-27.5°	385	413	432	439	432	413	385	348	306	265	218
-30°	273	291	302	306	302	291	273	248	216	187	157
-32.5°	186	198	205	207	205	198	186	170	150	130	111
-35°	125	132	137	138	137	132	125	115	103	89	78
-37.5°	84	88	91	92	91	88	84	78	70	60	52
-40°	55	58	59	60	59	58	55	51	45	39	34
-42.5°	34	36	37	37	37	36	34	32	29	26	23
-45°	22	23	24	24	24	23	22	21	20	18	16
-47.5°	15	16	16	16	16	16	15	14	14	12	11
-50°	11	11	11	11	11	11	11	10	10	9	8
-52.5°	8	8	8	8	8	8	8	7	7	6	6
-55°	5	5	5	5	5	5	5	5	5	4	4
-57.5°	4	4	4	4	4	4	4	4	4	4	3
-60°	3	3	3	3	3	3	3	3	3	3	3
-62.5°	3	3	3	3	3	3	3	3	3	3	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	2	2
-72.5°	1	1	1	1	1	1	1	1	1	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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	2	2	2	2	2	2	1	1	1	1	0
65°	2	2	2	2	2	2	2	2	2	1	1
62.5°	2	2	2	2	2	2	2	2	2	2	2
60°	3	3	3	3	2	2	2	2	2	2	2
57.5°	3	3	3	3	3	3	2	2	2	2	2
55°	4	4	4	3	3	3	3	3	2	2	2
52.5°	5	5	4	4	4	3	3	3	3	3	2
50°	8	7	6	5	5	4	4	3	3	3	3
47.5°	10	9	8	7	6	5	4	4	3	3	3
45°	14	13	11	10	8	7	5	5	4	4	3
42.5°	20	17	15	13	11	9	8	6	5	4	4
40°	29	24	21	17	14	11	10	8	6	5	4
37.5°	43	35	29	23	19	15	12	10	8	6	5
35°	64	52	41	32	25	20	15	12	10	8	5
32.5°	91	75	59	46	34	26	20	15	11	9	7
30°	128	104	82	62	47	34	25	19	14	11	8
27.5°	178	139	110	84	62	46	32	23	17	13	10
25°	242	189	144	110	82	59	41	29	21	15	11
22.5°	318	251	189	139	104	75	52	35	24	17	13
20°	409	318	242	178	128	91	64	43	29	20	14
17.5°	512	396	298	218	157	111	78	52	34	23	16
15°	620	480	359	265	187	130	89	60	39	26	18
12.5°	730	564	422	306	216	150	103	70	45	29	20
10°	832	644	482	348	248	170	115	78	51	32	21
7.5°	921	713	532	385	273	186	125	84	55	34	22
5°	990	765	573	413	291	198	132	88	58	36	23
2.5°	1033	800	598	432	302	205	137	91	59	37	24
0°	1048	812	606	439	306	207	138	92	60	37	24
-2.5°	1033	800	598	432	302	205	137	91	59	37	24
-5°	990	765	573	413	291	198	132	88	58	36	23
-7.5°	921	713	532	385	273	186	125	84	55	34	22
-10°	832	644	482	348	248	170	115	78	51	32	21
-12.5°	730	564	422	306	216	150	103	70	45	29	20
-15°	620	480	359	265	187	130	89	60	39	26	18
-17.5°	512	396	298	218	157	111	78	52	34	23	16
-20°	409	318	242	178	128	91	64	43	29	20	14



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	318	251	189	139	104	75	52	35	24	17	13
-25°	242	189	144	110	82	59	41	29	21	15	11
-27.5°	178	139	110	84	62	46	32	23	17	13	10
-30°	128	104	82	62	47	34	25	19	14	11	8
-32.5°	91	75	59	46	34	26	20	15	11	9	7
-35°	64	52	41	32	25	20	15	12	10	8	5
-37.5°	43	35	29	23	19	15	12	10	8	6	5
-40°	29	24	21	17	14	11	10	8	6	5	4
-42.5°	20	17	15	13	11	9	8	6	5	4	4
-45°	14	13	11	10	8	7	5	5	4	4	3
-47.5°	10	9	8	7	6	5	4	4	3	3	3
-50°	8	7	6	5	5	4	4	3	3	3	3
-52.5°	5	5	4	4	4	3	3	3	3	3	2
-55°	4	4	4	3	3	3	3	3	2	2	2
-57.5°	3	3	3	3	3	3	2	2	2	2	2
-60°	3	3	3	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	1	1
-67.5°	2	2	2	2	2	2	1	1	1	1	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	0	0	0	0	0	0	0	0
60°	2	1	1	1	0	0	0	0	0	0	0
57.5°	2	2	2	1	1	0	0	0	0	0	0
55°	2	2	2	2	1	1	0	0	0	0	0
52.5°	2	2	2	2	2	1	1	0	0	0	0
50°	2	2	2	2	2	1	1	0	0	0	0
47.5°	3	2	2	2	2	2	1	1	0	0	0
45°	3	3	2	2	2	2	2	1	0	0	0
42.5°	3	3	3	2	2	2	2	1	1	0	0
40°	3	3	3	2	2	2	2	2	1	0	0
37.5°	4	3	3	3	2	2	2	2	1	0	0
35°	4	4	3	3	2	2	2	2	1	1	0
32.5°	5	4	3	3	3	2	2	2	2	1	0
30°	6	5	4	3	3	2	2	2	2	1	0
27.5°	7	5	4	3	3	3	2	2	2	1	0
25°	8	6	4	4	3	3	2	2	2	1	0
22.5°	9	7	5	4	3	3	2	2	2	1	0
20°	10	8	5	4	3	3	2	2	2	1	1
17.5°	11	8	6	4	3	3	2	2	2	2	1
15°	12	9	6	4	4	3	3	2	2	2	1
12.5°	14	10	7	5	4	3	3	2	2	2	1
10°	14	10	7	5	4	3	3	2	2	2	1
7.5°	15	11	8	5	4	3	3	2	2	2	1
5°	16	11	8	5	4	3	3	2	2	2	1
2.5°	16	11	8	5	4	3	3	2	2	2	1
0°	16	11	8	5	4	3	3	2	2	2	1
-2.5°	16	11	8	5	4	3	3	2	2	2	1
-5°	16	11	8	5	4	3	3	2	2	2	1
-7.5°	15	11	8	5	4	3	3	2	2	2	1
-10°	14	10	7	5	4	3	3	2	2	2	1
-12.5°	14	10	7	5	4	3	3	2	2	2	1
-15°	12	9	6	4	4	3	3	2	2	2	1
-17.5°	11	8	6	4	3	3	2	2	2	2	1
-20°	10	8	5	4	3	3	2	2	2	1	1



REPORT NUMBER: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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°	9	7	5	4	3	3	2	2	2	1	0
-25°	8	6	4	4	3	3	2	2	2	1	0
-27.5°	7	5	4	3	3	3	2	2	2	1	0
-30°	6	5	4	3	3	2	2	2	2	1	0
-32.5°	5	4	3	3	3	2	2	2	2	1	0
-35°	4	4	3	3	2	2	2	2	1	1	0
-37.5°	4	3	3	3	2	2	2	2	1	0	0
-40°	3	3	3	2	2	2	2	2	1	0	0
-42.5°	3	3	3	2	2	2	2	1	1	0	0
-45°	3	3	2	2	2	2	2	1	0	0	0
-47.5°	3	2	2	2	2	2	1	1	0	0	0
-50°	2	2	2	2	2	1	1	0	0	0	0
-52.5°	2	2	2	2	2	1	1	0	0	0	0
-55°	2	2	2	2	1	1	0	0	0	0	0
-57.5°	2	2	2	1	1	0	0	0	0	0	0
-60°	2	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	1	0	0	0	0	0	0	0	0
-65°	1	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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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: P29423 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-F-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)