

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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P29421 (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-S-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

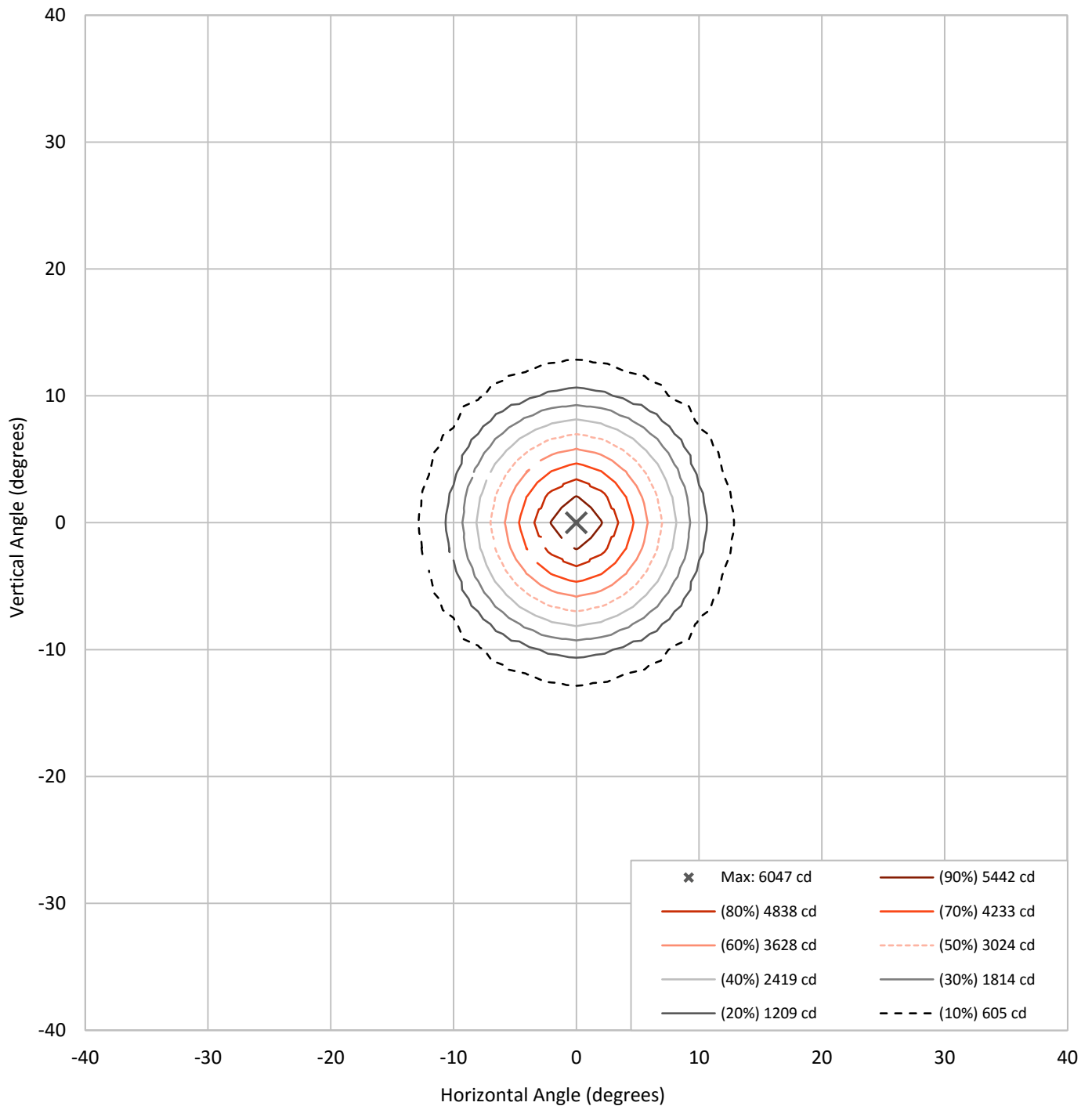
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	457.1 lumens	Max Intensity:	6047 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	45.7 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14°H x 14°V	Field Angle (10%):	24.9°H x 24.9°V
Beam Lumens:	188.4 lumens	Field Lumens:	351.2 lumens
Beam Efficiency:	41.2%	Field Efficiency:	76.8%
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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Iso-Candela Plot



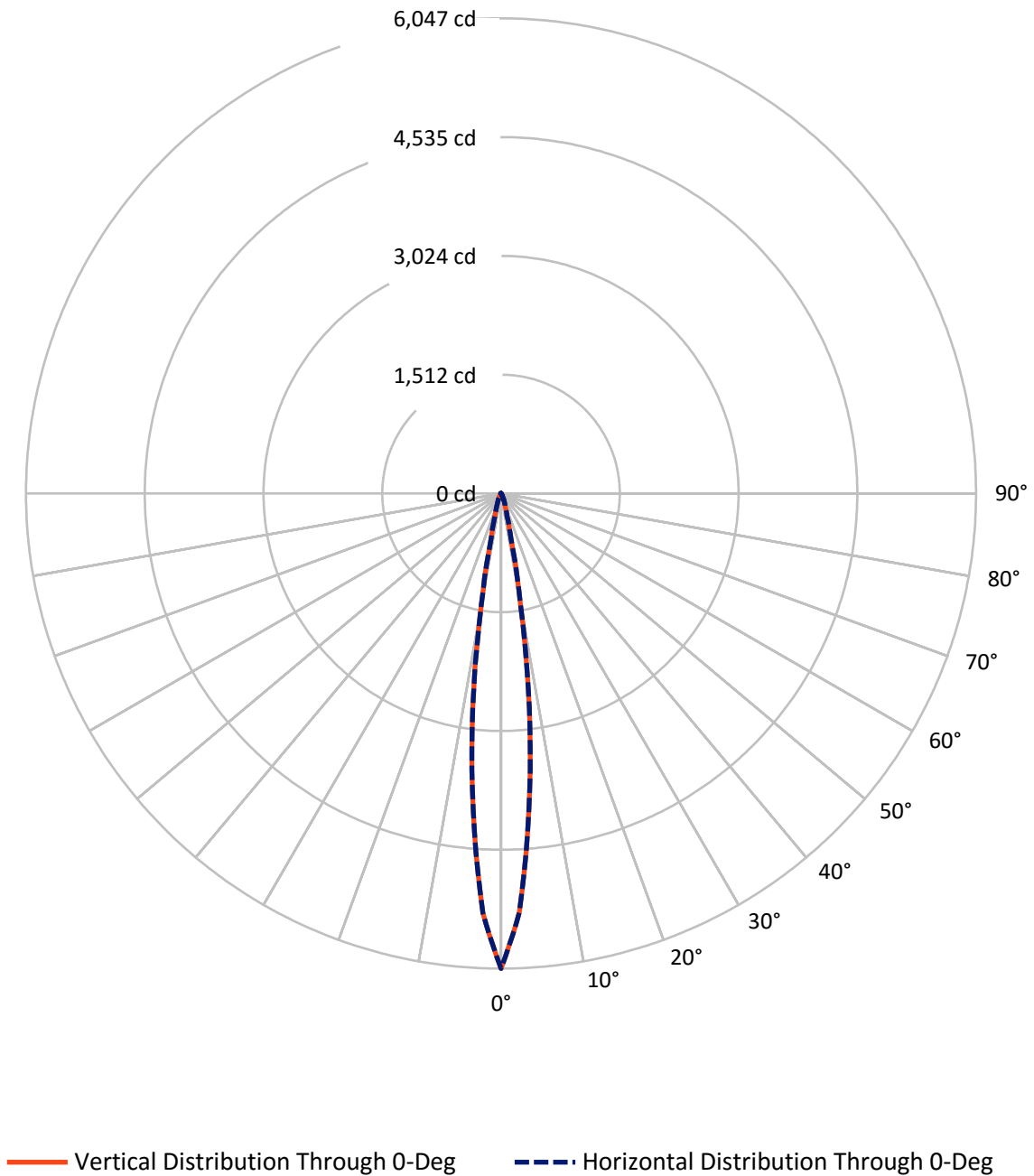
REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-BK-L1-UNV

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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
40		0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0		
30	0.0	0.0	0.0	0.1	0.1	0.3	1.0	1.9	1.9	1.0	0.3	0.1	0.1	0.0	0.0	0.0	
20		0.0	0.0	0.1	0.2	0.9	3.7	10.4	10.4	3.7	0.9	0.2	0.1	0.0	0.0		
10	0.0	0.0	0.0	0.1	0.3	1.8	10.2	81.2	81.2	10.2	1.8	0.3	0.1	0.0	0.0	0.0	
0		0.0	0.0	0.1	0.3	1.8	10.2	81.2	81.2	10.2	1.8	0.3	0.1	0.0	0.0		
-10	0.0	0.0	0.0	0.1	0.2	0.9	3.7	10.4	10.4	3.7	0.9	0.2	0.1	0.0	0.0	0.0	
-20		0.0	0.0	0.1	0.1	0.3	1.0	1.9	1.9	1.0	0.3	0.1	0.1	0.0	0.0		
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.2	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	0.0	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	
-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	

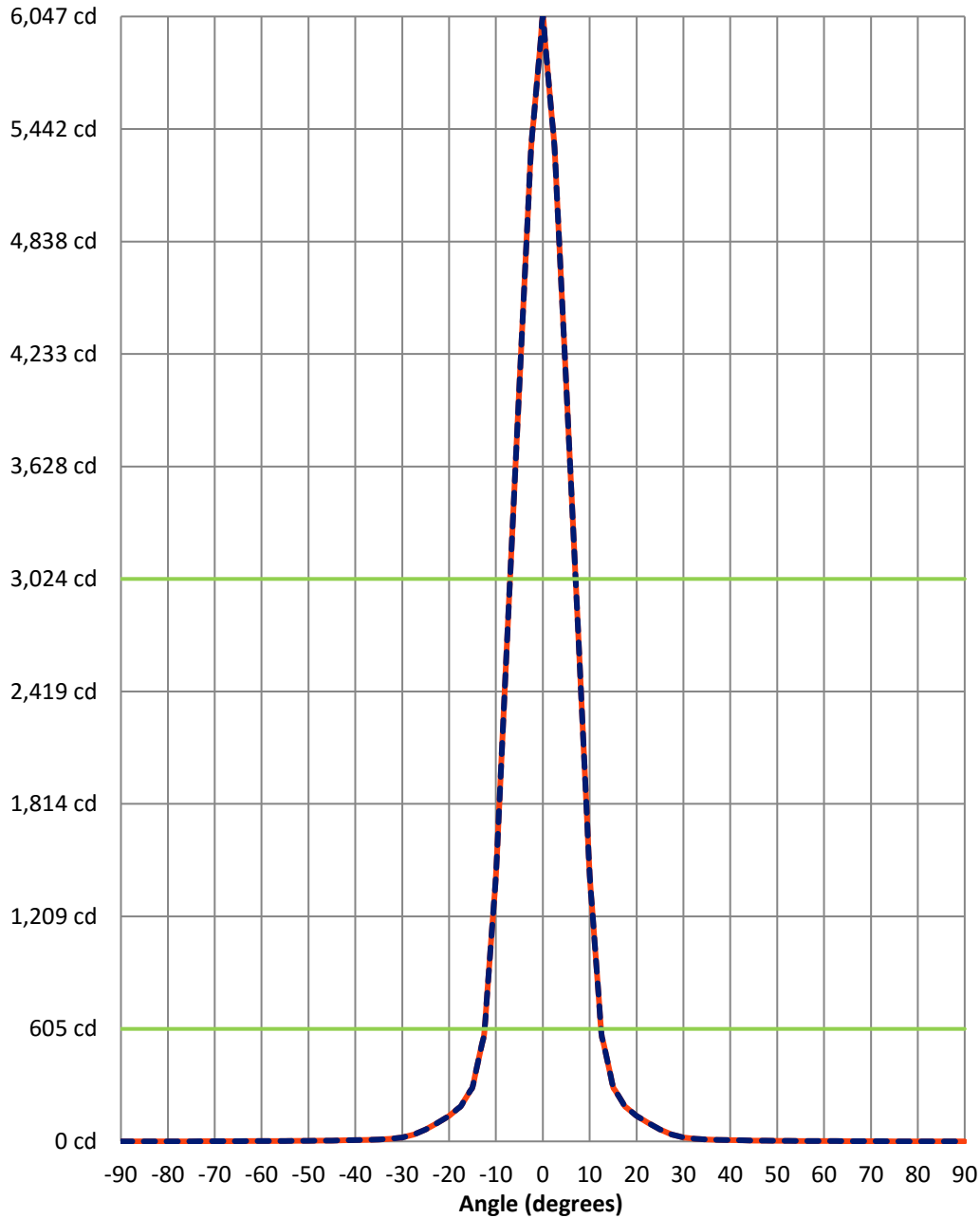
REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-BK-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 14°
V Angle: 14°
Lumens: 188.4
Efficiency: 41.2%

Field:
H Angle: 24.9°
V Angle: 24.9°
Lumens: 351.2
Efficiency: 76.8%

Spill:
Lumens: 105.9
Efficiency: 23.2%

— 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	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	1
37.5°	0	0	0	0	0	0	0	0	0	1	1
35°	0	0	0	0	0	0	0	0	1	1	1
32.5°	0	0	0	0	0	0	0	0	1	1	1
30°	0	0	0	0	0	0	0	0	1	1	1
27.5°	0	0	0	0	0	0	0	0	1	1	1
25°	0	0	0	0	0	0	0	0	1	1	1
22.5°	0	0	0	0	0	0	0	0	1	1	1
20°	0	0	0	0	0	0	0	1	1	1	1
17.5°	0	0	0	0	0	0	0	1	1	1	1
15°	0	0	0	0	0	0	0	1	1	1	1
12.5°	0	0	0	0	0	0	0	1	1	1	1
10°	0	0	0	0	0	0	0	1	1	1	1
7.5°	0	0	0	0	0	0	0	1	1	1	1
5°	0	0	0	0	0	0	0	1	1	1	1
2.5°	0	0	0	0	0	0	0	1	1	1	1
0°	0	0	0	0	0	0	0	1	1	1	1
-2.5°	0	0	0	0	0	0	0	1	1	1	1
-5°	0	0	0	0	0	0	0	1	1	1	1
-7.5°	0	0	0	0	0	0	0	1	1	1	1
-10°	0	0	0	0	0	0	0	1	1	1	1
-12.5°	0	0	0	0	0	0	0	1	1	1	1
-15°	0	0	0	0	0	0	0	1	1	1	1
-17.5°	0	0	0	0	0	0	0	1	1	1	1
-20°	0	0	0	0	0	0	0	1	1	1	1



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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	1	1
-25°	0	0	0	0	0	0	0	0	1	1	1
-27.5°	0	0	0	0	0	0	0	0	1	1	1
-30°	0	0	0	0	0	0	0	0	1	1	1
-32.5°	0	0	0	0	0	0	0	0	1	1	1
-35°	0	0	0	0	0	0	0	0	1	1	1
-37.5°	0	0	0	0	0	0	0	0	0	1	1
-40°	0	0	0	0	0	0	0	0	0	1	1
-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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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	1	1
62.5°	0	0	0	0	1	1	1	1	1	1	1
60°	0	0	0	1	1	1	1	1	1	1	1
57.5°	0	0	1	1	1	1	1	1	1	1	1
55°	0	1	1	1	1	1	1	1	1	1	2
52.5°	1	1	1	1	1	1	1	1	2	2	2
50°	1	1	1	1	1	1	1	2	2	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
45°	1	1	1	1	1	2	2	2	2	2	2
42.5°	1	1	1	1	2	2	2	2	2	2	2
40°	1	1	1	1	2	2	2	2	2	2	3
37.5°	1	1	1	2	2	2	2	2	2	3	3
35°	1	1	1	2	2	2	2	2	3	3	3
32.5°	1	1	2	2	2	2	2	3	3	3	4
30°	1	1	2	2	2	2	2	3	3	4	4
27.5°	1	2	2	2	2	2	3	3	3	4	4
25°	1	2	2	2	2	2	3	3	4	4	5
22.5°	1	2	2	2	2	3	3	3	4	4	6
20°	1	2	2	2	2	3	3	4	4	5	6
17.5°	1	2	2	2	2	3	3	4	4	6	7
15°	2	2	2	2	2	3	3	4	4	6	7
12.5°	2	2	2	2	3	3	4	4	5	6	7
10°	2	2	2	2	3	3	4	4	5	7	8
7.5°	2	2	2	2	3	3	4	4	6	7	8
5°	2	2	2	2	3	3	4	4	6	7	8
2.5°	2	2	2	2	3	3	4	4	6	7	8
0°	2	2	2	2	3	3	4	4	6	7	8
-2.5°	2	2	2	2	3	3	4	4	6	7	8
-5°	2	2	2	2	3	3	4	4	6	7	8
-7.5°	2	2	2	2	3	3	4	4	6	7	8
-10°	2	2	2	2	3	3	4	4	5	7	8
-12.5°	2	2	2	2	3	3	4	4	5	6	7
-15°	2	2	2	2	2	3	3	4	4	6	7
-17.5°	1	2	2	2	2	3	3	4	4	6	7
-20°	1	2	2	2	2	3	3	4	4	5	6



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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	2	2	2	2	3	3	3	4	4	6
-25°	1	2	2	2	2	2	3	3	4	4	5
-27.5°	1	2	2	2	2	2	3	3	3	4	4
-30°	1	1	2	2	2	2	2	3	3	4	4
-32.5°	1	1	2	2	2	2	2	3	3	3	4
-35°	1	1	1	2	2	2	2	2	3	3	3
-37.5°	1	1	1	2	2	2	2	2	2	3	3
-40°	1	1	1	1	2	2	2	2	2	2	3
-42.5°	1	1	1	1	2	2	2	2	2	2	2
-45°	1	1	1	1	1	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	2	2	2	2
-52.5°	1	1	1	1	1	1	1	1	2	2	2
-55°	0	1	1	1	1	1	1	1	1	1	2
-57.5°	0	0	1	1	1	1	1	1	1	1	1
-60°	0	0	0	1	1	1	1	1	1	1	1
-62.5°	0	0	0	0	1	1	1	1	1	1	1
-65°	0	0	0	0	0	0	1	1	1	1	1
-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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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	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	2	2	2	2	2	2	2	2
57.5°	1	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	2	2	2	2
52.5°	2	2	2	2	2	2	2	2	2	3	3
50°	2	2	2	2	2	3	3	3	3	3	3
47.5°	2	2	2	3	3	3	3	3	3	4	4
45°	2	3	3	3	3	3	4	4	4	4	4
42.5°	3	3	3	3	4	4	4	4	4	5	5
40°	3	3	4	4	4	4	5	6	6	6	7
37.5°	3	4	4	4	5	6	6	7	7	7	8
35°	4	4	4	5	6	7	7	8	8	8	9
32.5°	4	4	6	6	7	7	8	9	10	11	12
30°	4	6	6	7	8	9	10	11	13	15	17
27.5°	5	6	7	8	9	10	12	15	18	21	27
25°	6	7	8	9	10	13	16	20	28	35	44
22.5°	7	7	9	10	13	17	23	32	44	58	71
20°	7	8	10	12	16	23	34	50	67	86	103
17.5°	8	9	11	15	20	32	50	70	93	116	136
15°	8	10	13	18	28	44	67	93	120	149	179
12.5°	8	11	15	21	35	58	86	116	149	187	253
10°	9	12	17	27	44	71	103	136	179	253	358
7.5°	9	13	19	31	53	83	117	158	221	326	584
5°	10	13	20	34	59	92	128	175	259	429	944
2.5°	10	14	21	36	63	97	135	185	284	532	1298
0°	10	14	21	37	64	99	137	189	292	580	1430
-2.5°	10	14	21	36	63	97	135	185	284	532	1298
-5°	10	13	20	34	59	92	128	175	259	429	944
-7.5°	9	13	19	31	53	83	117	158	221	326	584
-10°	9	12	17	27	44	71	103	136	179	253	358
-12.5°	8	11	15	21	35	58	86	116	149	187	253
-15°	8	10	13	18	28	44	67	93	120	149	179
-17.5°	8	9	11	15	20	32	50	70	93	116	136
-20°	7	8	10	12	16	23	34	50	67	86	103



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	7	9	10	13	17	23	32	44	58	71
-25°	6	7	8	9	10	13	16	20	28	35	44
-27.5°	5	6	7	8	9	10	12	15	18	21	27
-30°	4	6	6	7	8	9	10	11	13	15	17
-32.5°	4	4	6	6	7	7	8	9	10	11	12
-35°	4	4	4	5	6	7	7	8	8	8	9
-37.5°	3	4	4	4	5	6	6	7	7	7	8
-40°	3	3	4	4	4	4	5	6	6	6	7
-42.5°	3	3	3	3	4	4	4	4	4	5	5
-45°	2	3	3	3	3	3	4	4	4	4	4
-47.5°	2	2	2	3	3	3	3	3	3	4	4
-50°	2	2	2	2	2	3	3	3	3	3	3
-52.5°	2	2	2	2	2	2	2	2	2	3	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-57.5°	1	2	2	2	2	2	2	2	2	2	2
-60°	1	1	1	2	2	2	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°	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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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°	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°	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	3	3	3	3	3	3	2	2
50°	3	3	3	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	4	4	4	4	3	3
45°	4	4	4	4	4	4	4	4	4	4	4
42.5°	6	6	6	6	6	6	6	5	5	4	4
40°	7	7	7	7	7	7	7	7	6	6	6
37.5°	8	8	8	8	8	8	8	8	7	7	7
35°	9	10	10	10	10	10	9	9	8	8	8
32.5°	13	13	14	14	14	13	13	12	11	10	9
30°	19	20	21	21	21	20	19	17	15	13	11
27.5°	31	34	36	37	36	34	31	27	21	18	15
25°	53	59	63	64	63	59	53	44	35	28	20
22.5°	83	92	97	99	97	92	83	71	58	44	32
20°	117	128	135	137	135	128	117	103	86	67	50
17.5°	158	175	185	189	185	175	158	136	116	93	70
15°	221	259	284	292	284	259	221	179	149	120	93
12.5°	326	429	532	580	532	429	326	253	187	149	116
10°	584	944	1298	1430	1298	944	584	358	253	179	136
7.5°	1175	1937	2540	2760	2540	1937	1175	584	326	221	158
5°	1937	2995	3762	4064	3762	2995	1937	944	429	259	175
2.5°	2540	3762	4828	5342	4828	3762	2540	1298	532	284	185
0°	2760	4064	5342	6047	5342	4064	2760	1430	580	292	189
-2.5°	2540	3762	4828	5342	4828	3762	2540	1298	532	284	185
-5°	1937	2995	3762	4064	3762	2995	1937	944	429	259	175
-7.5°	1175	1937	2540	2760	2540	1937	1175	584	326	221	158
-10°	584	944	1298	1430	1298	944	584	358	253	179	136
-12.5°	326	429	532	580	532	429	326	253	187	149	116
-15°	221	259	284	292	284	259	221	179	149	120	93
-17.5°	158	175	185	189	185	175	158	136	116	93	70
-20°	117	128	135	137	135	128	117	103	86	67	50



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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°	83	92	97	99	97	92	83	71	58	44	32
-25°	53	59	63	64	63	59	53	44	35	28	20
-27.5°	31	34	36	37	36	34	31	27	21	18	15
-30°	19	20	21	21	21	20	19	17	15	13	11
-32.5°	13	13	14	14	14	13	13	12	11	10	9
-35°	9	10	10	10	10	10	9	9	8	8	8
-37.5°	8	8	8	8	8	8	8	8	7	7	7
-40°	7	7	7	7	7	7	7	7	6	6	6
-42.5°	6	6	6	6	6	6	6	5	5	4	4
-45°	4	4	4	4	4	4	4	4	4	4	4
-47.5°	4	4	4	4	4	4	4	4	4	3	3
-50°	3	3	3	3	3	3	3	3	3	3	3
-52.5°	3	3	3	3	3	3	3	3	3	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°	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°	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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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°	1	1	1	1	1	1	1	1	1	1	0
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	1	1	1	1	1	1	1
57.5°	2	2	2	2	2	2	1	1	1	1	1
55°	2	2	2	2	2	2	2	2	1	1	1
52.5°	2	2	2	2	2	2	2	2	2	2	1
50°	3	3	2	2	2	2	2	2	2	2	2
47.5°	3	3	3	3	2	2	2	2	2	2	2
45°	4	3	3	3	3	3	2	2	2	2	2
42.5°	4	4	4	3	3	3	3	2	2	2	2
40°	5	4	4	4	4	3	3	3	2	2	2
37.5°	6	6	5	4	4	4	3	3	3	2	2
35°	7	7	6	5	4	4	4	3	3	3	2
32.5°	8	7	7	6	6	4	4	4	3	3	3
30°	10	9	8	7	6	6	4	4	4	3	3
27.5°	12	10	9	8	7	6	5	4	4	3	3
25°	16	13	10	9	8	7	6	5	4	4	3
22.5°	23	17	13	10	9	7	7	6	4	4	3
20°	34	23	16	12	10	8	7	6	5	4	4
17.5°	50	32	20	15	11	9	8	7	6	4	4
15°	67	44	28	18	13	10	8	7	6	4	4
12.5°	86	58	35	21	15	11	8	7	6	5	4
10°	103	71	44	27	17	12	9	8	7	5	4
7.5°	117	83	53	31	19	13	9	8	7	6	4
5°	128	92	59	34	20	13	10	8	7	6	4
2.5°	135	97	63	36	21	14	10	8	7	6	4
0°	137	99	64	37	21	14	10	8	7	6	4
-2.5°	135	97	63	36	21	14	10	8	7	6	4
-5°	128	92	59	34	20	13	10	8	7	6	4
-7.5°	117	83	53	31	19	13	9	8	7	6	4
-10°	103	71	44	27	17	12	9	8	7	5	4
-12.5°	86	58	35	21	15	11	8	7	6	5	4
-15°	67	44	28	18	13	10	8	7	6	4	4
-17.5°	50	32	20	15	11	9	8	7	6	4	4
-20°	34	23	16	12	10	8	7	6	5	4	4



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	23	17	13	10	9	7	7	6	4	4	3
-25°	16	13	10	9	8	7	6	5	4	4	3
-27.5°	12	10	9	8	7	6	5	4	4	3	3
-30°	10	9	8	7	6	6	4	4	4	3	3
-32.5°	8	7	7	6	6	4	4	4	3	3	3
-35°	7	7	6	5	4	4	4	3	3	3	2
-37.5°	6	6	5	4	4	4	3	3	3	2	2
-40°	5	4	4	4	4	3	3	3	2	2	2
-42.5°	4	4	4	3	3	3	3	2	2	2	2
-45°	4	3	3	3	3	3	2	2	2	2	2
-47.5°	3	3	3	3	2	2	2	2	2	2	2
-50°	3	3	2	2	2	2	2	2	2	2	2
-52.5°	2	2	2	2	2	2	2	2	2	2	1
-55°	2	2	2	2	2	2	2	2	1	1	1
-57.5°	2	2	2	2	2	2	1	1	1	1	1
-60°	2	2	2	2	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	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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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°	1	1	1	1	0	0	0	0	0	0	0
57.5°	1	1	1	1	1	0	0	0	0	0	0
55°	1	1	1	1	1	1	0	0	0	0	0
52.5°	1	1	1	1	1	1	1	0	0	0	0
50°	1	1	1	1	1	1	1	0	0	0	0
47.5°	2	1	1	1	1	1	1	1	0	0	0
45°	2	2	1	1	1	1	1	1	0	0	0
42.5°	2	2	2	1	1	1	1	1	1	0	0
40°	2	2	2	1	1	1	1	1	1	0	0
37.5°	2	2	2	2	1	1	1	1	1	0	0
35°	2	2	2	2	1	1	1	1	1	1	0
32.5°	2	2	2	2	2	1	1	1	1	1	0
30°	2	2	2	2	2	1	1	1	1	1	0
27.5°	3	2	2	2	2	2	1	1	1	1	0
25°	3	2	2	2	2	2	1	1	1	1	0
22.5°	3	3	2	2	2	2	1	1	1	1	0
20°	3	3	2	2	2	2	1	1	1	1	1
17.5°	3	3	2	2	2	2	1	1	1	1	1
15°	3	3	2	2	2	2	2	1	1	1	1
12.5°	4	3	3	2	2	2	2	1	1	1	1
10°	4	3	3	2	2	2	2	1	1	1	1
7.5°	4	3	3	2	2	2	2	1	1	1	1
5°	4	3	3	2	2	2	2	1	1	1	1
2.5°	4	3	3	2	2	2	2	1	1	1	1
0°	4	3	3	2	2	2	2	1	1	1	1
-2.5°	4	3	3	2	2	2	2	1	1	1	1
-5°	4	3	3	2	2	2	2	1	1	1	1
-7.5°	4	3	3	2	2	2	2	1	1	1	1
-10°	4	3	3	2	2	2	2	1	1	1	1
-12.5°	4	3	3	2	2	2	2	1	1	1	1
-15°	3	3	2	2	2	2	2	1	1	1	1
-17.5°	3	3	2	2	2	2	1	1	1	1	1
-20°	3	3	2	2	2	2	1	1	1	1	1



REPORT NUMBER: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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°	3	3	2	2	2	2	1	1	1	1	0
-25°	3	2	2	2	2	2	1	1	1	1	0
-27.5°	3	2	2	2	2	2	1	1	1	1	0
-30°	2	2	2	2	2	1	1	1	1	1	0
-32.5°	2	2	2	2	2	1	1	1	1	1	0
-35°	2	2	2	2	1	1	1	1	1	1	0
-37.5°	2	2	2	2	1	1	1	1	1	0	0
-40°	2	2	2	1	1	1	1	1	1	0	0
-42.5°	2	2	2	1	1	1	1	1	1	0	0
-45°	2	2	1	1	1	1	1	1	0	0	0
-47.5°	2	1	1	1	1	1	1	1	0	0	0
-50°	1	1	1	1	1	1	1	0	0	0	0
-52.5°	1	1	1	1	1	1	1	0	0	0	0
-55°	1	1	1	1	1	1	0	0	0	0	0
-57.5°	1	1	1	1	1	0	0	0	0	0	0
-60°	1	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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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: P29421 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-S-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)