

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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P29409 (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]-[RW, RI]-LED4080-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

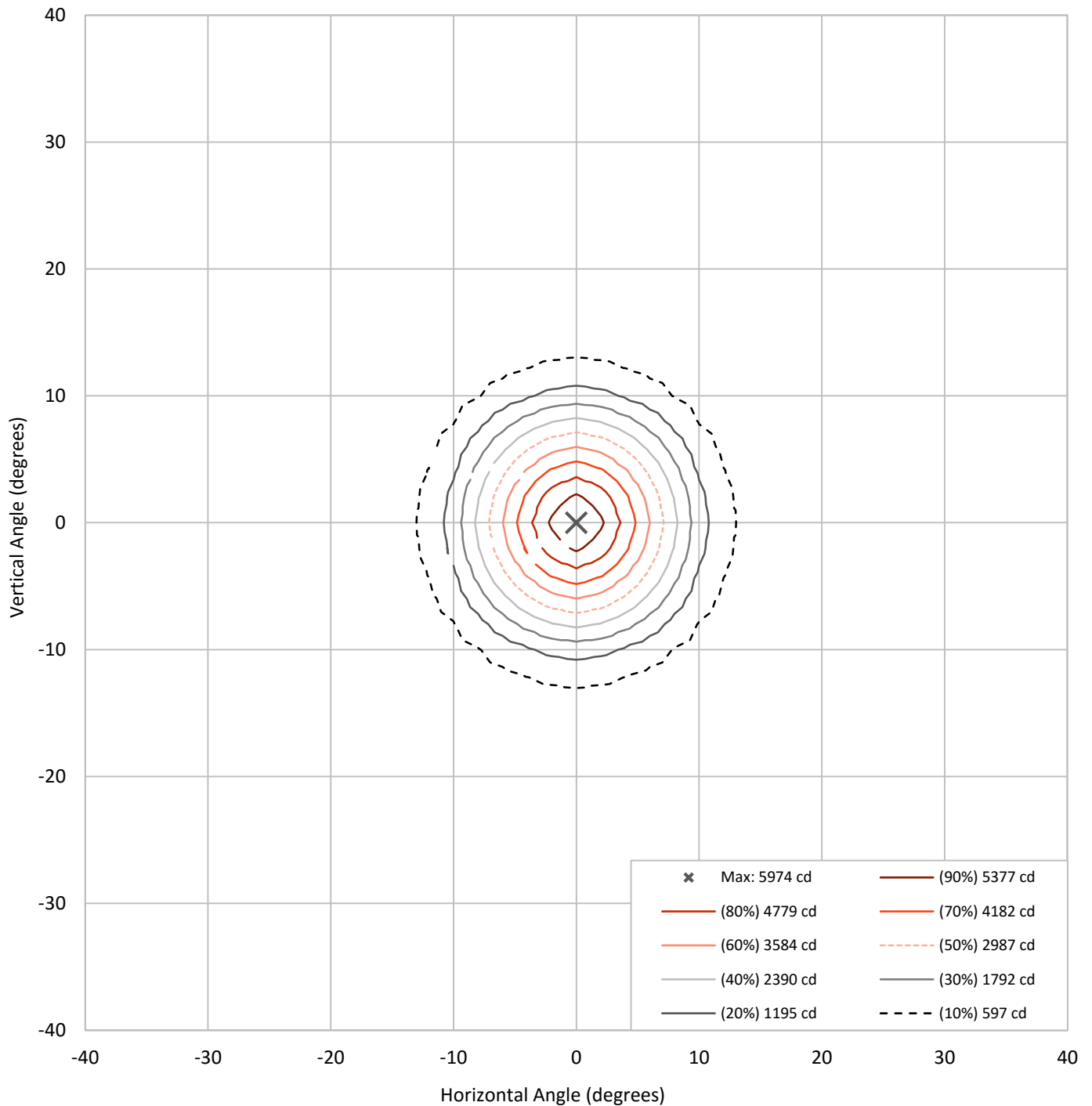
Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	467.1 lumens	Max Intensity:	5974 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	46.7 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.2°H x 14.2°V	Field Angle (10%):	25.2°H x 25.2°V
Beam Lumens:	189.8 lumens	Field Lumens:	355.7 lumens
Beam Efficiency:	40.6%	Field Efficiency:	76.2%
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		



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

Iso-Candela Plot





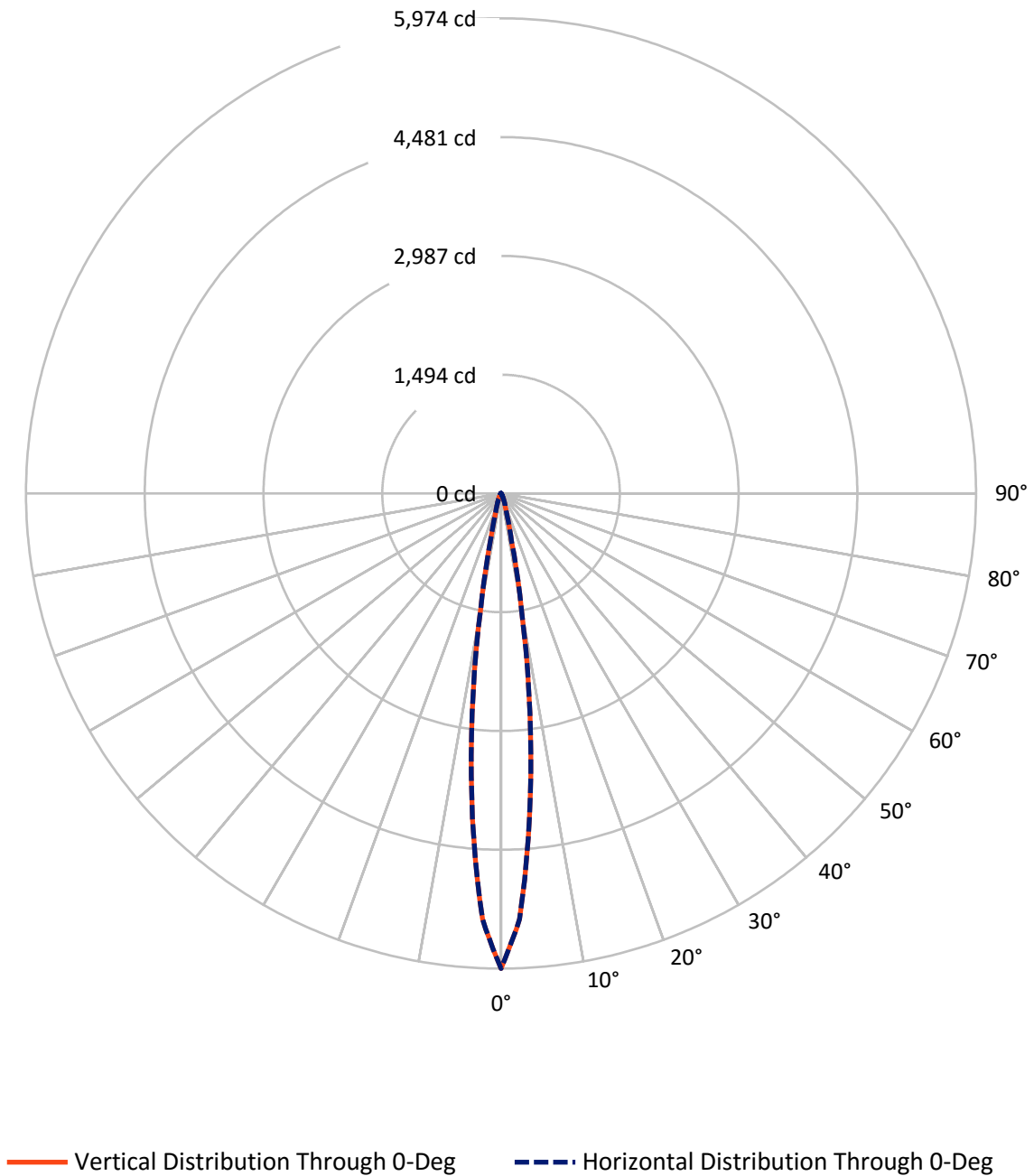
REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
70	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	0.1	0.1	0.1	0.1	0.0	0.0	0.0	
50	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0
40		0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0
30	0.0	0.0	0.1	0.1	0.2	0.3	1.0	1.9	1.9	1.0	0.3	0.2	0.1	0.1	0.0
20		0.0	0.1	0.1	0.2	0.9	3.7	10.6	10.6	3.7	0.9	0.2	0.1	0.1	0.0
10	0.0	0.0	0.1	0.1	0.3	1.8	10.4	82.1	82.1	10.4	1.8	0.3	0.1	0.1	0.0
0		0.0	0.1	0.1	0.3	1.8	10.4	82.1	82.1	10.4	1.8	0.3	0.1	0.1	0.0
-10	0.0	0.0	0.1	0.1	0.2	0.9	3.7	10.6	10.6	3.7	0.9	0.2	0.1	0.1	0.0
-20		0.0	0.1	0.1	0.2	0.3	1.0	1.9	1.9	1.0	0.3	0.2	0.1	0.1	0.0
-30	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0
-40		0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	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	0.1	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	0.1	0.0	0.0	0.0
-70	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
-80		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
-90	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0

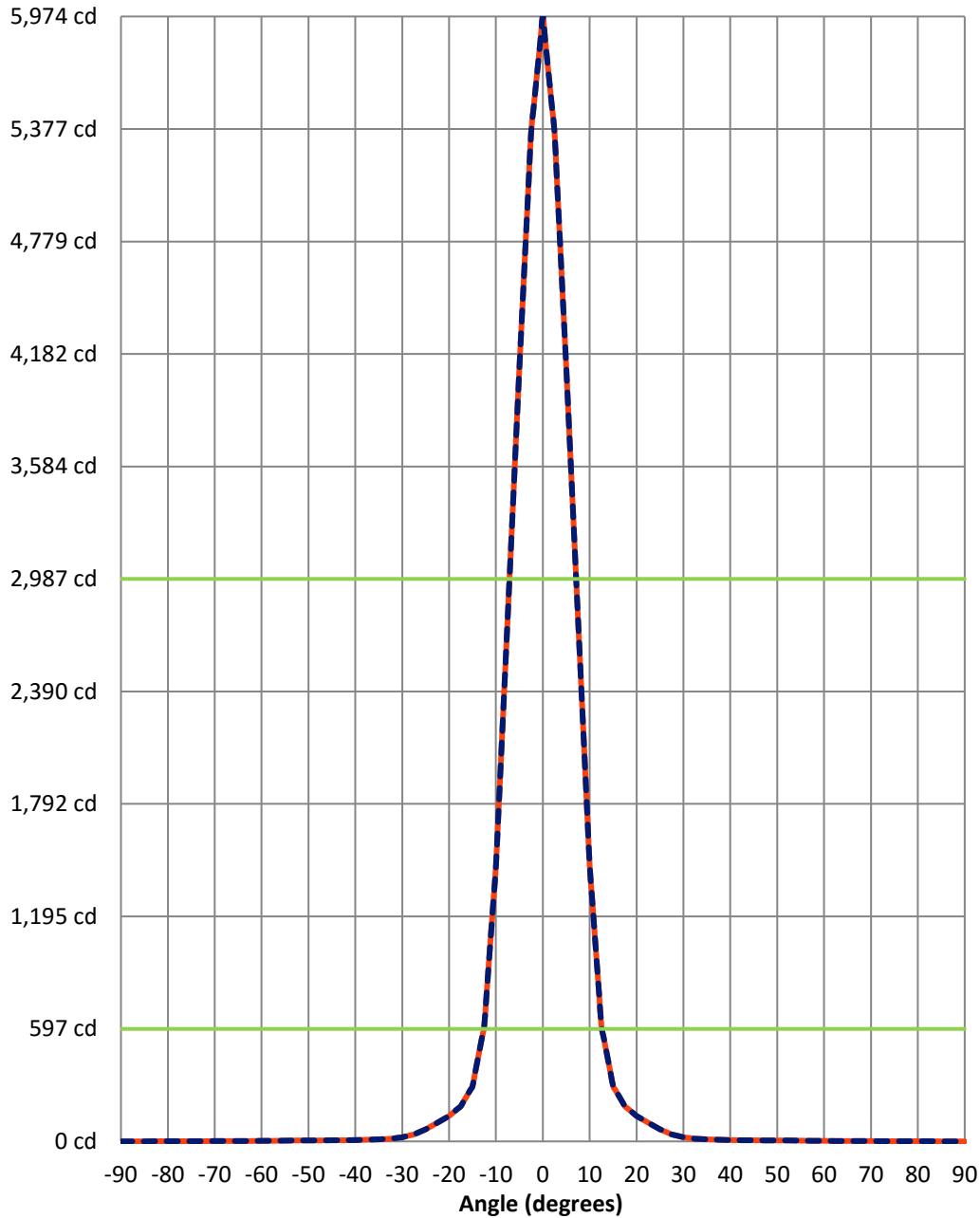
REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
 H Angle: 14.2°
 V Angle: 14.2°
 Lumens: 189.8
 Efficiency: 40.6%

Field:
 H Angle: 25.2°
 V Angle: 25.2°
 Lumens: 355.7
 Efficiency: 76.2%

Spill:
 Lumens: 111.4
 Efficiency: 23.8%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-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	1
72.5°	0	0	0	0	0	0	0	0	0	1	1
70°	0	0	0	0	0	0	0	0	1	1	1
67.5°	0	0	0	0	0	0	0	1	1	1	1
65°	0	0	0	0	0	0	1	1	1	1	1
62.5°	0	0	0	0	0	0	1	1	1	1	1
60°	0	0	0	0	0	0	1	1	1	1	1
57.5°	0	0	0	0	0	1	1	1	1	1	1
55°	0	0	0	0	0	1	1	1	1	1	1
52.5°	0	0	0	0	0	1	1	1	1	1	1
50°	0	0	0	0	1	1	1	1	1	1	1
47.5°	0	0	0	0	1	1	1	1	1	1	1
45°	0	0	0	0	1	1	1	1	1	1	1
42.5°	0	0	0	0	1	1	1	1	1	1	1
40°	0	0	0	0	1	1	1	1	1	1	2
37.5°	0	0	0	0	1	1	1	1	1	1	2
35°	0	0	0	0	1	1	1	1	1	1	2
32.5°	0	0	0	1	1	1	1	1	1	2	2
30°	0	0	0	1	1	1	1	1	1	2	2
27.5°	0	0	0	1	1	1	1	1	1	2	2
25°	0	0	0	1	1	1	1	1	1	2	2
22.5°	0	0	0	1	1	1	1	1	1	2	2
20°	0	0	0	1	1	1	1	1	1	2	2
17.5°	0	0	0	1	1	1	1	1	2	2	2
15°	0	0	0	1	1	1	1	1	2	2	2
12.5°	0	0	0	1	1	1	1	1	2	2	2
10°	0	0	0	1	1	1	1	1	2	2	2
7.5°	0	0	0	1	1	1	1	1	2	2	2
5°	0	0	0	1	1	1	1	1	2	2	2
2.5°	0	0	0	1	1	1	1	1	2	2	2
0°	0	0	0	1	1	1	1	1	2	2	2
-2.5°	0	0	0	1	1	1	1	1	2	2	2
-5°	0	0	0	1	1	1	1	1	2	2	2
-7.5°	0	0	0	1	1	1	1	1	2	2	2
-10°	0	0	0	1	1	1	1	1	2	2	2
-12.5°	0	0	0	1	1	1	1	1	2	2	2
-15°	0	0	0	1	1	1	1	1	2	2	2
-17.5°	0	0	0	1	1	1	1	1	2	2	2
-20°	0	0	0	1	1	1	1	1	1	2	2



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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	0	1	1	1	1	1	1	2	2
-25°	0	0	0	1	1	1	1	1	1	2	2
-27.5°	0	0	0	1	1	1	1	1	1	2	2
-30°	0	0	0	1	1	1	1	1	1	2	2
-32.5°	0	0	0	1	1	1	1	1	1	2	2
-35°	0	0	0	0	1	1	1	1	1	1	2
-37.5°	0	0	0	0	1	1	1	1	1	1	2
-40°	0	0	0	0	1	1	1	1	1	1	2
-42.5°	0	0	0	0	1	1	1	1	1	1	1
-45°	0	0	0	0	1	1	1	1	1	1	1
-47.5°	0	0	0	0	1	1	1	1	1	1	1
-50°	0	0	0	0	1	1	1	1	1	1	1
-52.5°	0	0	0	0	0	1	1	1	1	1	1
-55°	0	0	0	0	0	1	1	1	1	1	1
-57.5°	0	0	0	0	0	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	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	1	1	1	1
-70°	0	0	0	0	0	0	0	0	1	1	1
-72.5°	0	0	0	0	0	0	0	0	0	1	1
-75°	0	0	0	0	0	0	0	0	0	0	1
-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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	1	1	1	1	1	1
77.5°	0	0	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
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	2	2
62.5°	1	1	1	1	1	1	1	2	2	2	2
60°	1	1	1	1	1	1	2	2	2	2	2
57.5°	1	1	1	1	2	2	2	2	2	2	2
55°	1	1	1	2	2	2	2	2	2	2	2
52.5°	1	1	2	2	2	2	2	2	2	2	3
50°	1	1	2	2	2	2	2	2	2	3	3
47.5°	1	2	2	2	2	2	2	2	3	3	3
45°	2	2	2	2	2	2	2	3	3	3	4
42.5°	2	2	2	2	2	2	3	3	3	4	4
40°	2	2	2	2	2	3	3	3	4	4	5
37.5°	2	2	2	2	3	3	3	4	4	5	5
35°	2	2	2	2	3	3	3	4	5	5	5
32.5°	2	2	2	3	3	3	4	5	5	5	5
30°	2	2	2	3	3	4	4	5	5	5	5
27.5°	2	2	2	3	3	4	5	5	5	5	6
25°	2	2	3	3	3	4	5	5	5	6	6
22.5°	2	2	3	3	4	5	5	5	5	6	6
20°	2	2	3	3	4	5	5	5	6	6	6
17.5°	2	2	3	3	4	5	5	5	6	6	7
15°	2	3	3	3	4	5	5	5	6	6	7
12.5°	2	3	3	4	5	5	5	5	6	6	8
10°	2	3	3	4	5	5	5	6	6	7	8
7.5°	2	3	3	4	5	5	5	6	6	7	8
5°	2	3	3	4	5	5	5	6	6	7	9
2.5°	2	3	3	4	5	5	5	6	6	7	9
0°	2	3	3	4	5	5	5	6	6	7	9
-2.5°	2	3	3	4	5	5	5	6	6	7	9
-5°	2	3	3	4	5	5	5	6	6	7	9
-7.5°	2	3	3	4	5	5	5	6	6	7	8
-10°	2	3	3	4	5	5	5	6	6	7	8
-12.5°	2	3	3	4	5	5	5	6	6	6	8
-15°	2	3	3	3	4	5	5	5	6	6	7
-17.5°	2	2	3	3	4	5	5	5	6	6	7
-20°	2	2	3	3	4	5	5	5	6	6	6



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	2	2	3	3	4	5	5	5	5	6	6
-25°	2	2	3	3	3	4	5	5	5	6	6
-27.5°	2	2	2	3	3	4	5	5	5	5	6
-30°	2	2	2	3	3	4	4	5	5	5	5
-32.5°	2	2	2	3	3	3	4	5	5	5	5
-35°	2	2	2	2	3	3	3	4	5	5	5
-37.5°	2	2	2	2	3	3	3	4	4	5	5
-40°	2	2	2	2	2	3	3	3	4	4	5
-42.5°	2	2	2	2	2	2	3	3	3	4	4
-45°	2	2	2	2	2	2	2	3	3	3	4
-47.5°	1	2	2	2	2	2	2	2	3	3	3
-50°	1	1	2	2	2	2	2	2	2	3	3
-52.5°	1	1	2	2	2	2	2	2	2	2	3
-55°	1	1	1	2	2	2	2	2	2	2	2
-57.5°	1	1	1	1	2	2	2	2	2	2	2
-60°	1	1	1	1	1	1	2	2	2	2	2
-62.5°	1	1	1	1	1	1	1	2	2	2	2
-65°	1	1	1	1	1	1	1	1	1	2	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	0	0	1	1	1	1	1	1	1	1	1
-80°	0	0	0	0	0	1	1	1	1	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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	1	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	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	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	2	2	2
60°	2	2	2	2	2	2	2	2	3	3	3
57.5°	2	2	2	2	3	3	3	3	3	3	3
55°	2	3	3	3	3	3	3	3	3	4	4
52.5°	3	3	3	3	3	4	4	4	4	5	5
50°	3	3	4	4	4	5	5	5	5	5	5
47.5°	3	4	4	5	5	5	5	5	5	5	5
45°	4	5	5	5	5	5	5	5	5	5	6
42.5°	5	5	5	5	5	5	6	6	6	6	6
40°	5	5	5	5	6	6	6	6	6	6	7
37.5°	5	5	5	6	6	6	6	7	7	8	8
35°	5	5	6	6	6	7	7	8	9	9	10
32.5°	5	6	6	6	7	8	9	10	11	12	12
30°	6	6	6	7	8	10	11	12	13	15	17
27.5°	6	6	7	9	10	11	13	15	19	22	27
25°	6	7	8	10	11	13	17	21	29	35	44
22.5°	7	8	10	11	13	18	23	33	44	58	71
20°	7	9	11	13	17	23	34	50	67	86	102
17.5°	8	10	12	15	21	33	50	70	93	115	134
15°	9	11	13	19	29	44	67	93	119	147	177
12.5°	9	12	15	22	35	58	86	115	147	185	252
10°	10	12	17	27	44	71	102	134	177	252	367
7.5°	10	13	19	31	53	83	116	156	220	331	618
5°	11	14	21	35	59	92	126	173	259	448	982
2.5°	11	14	22	36	63	97	133	183	284	561	1333
0°	11	14	22	37	64	99	135	187	293	613	1464
-2.5°	11	14	22	36	63	97	133	183	284	561	1333
-5°	11	14	21	35	59	92	126	173	259	448	982
-7.5°	10	13	19	31	53	83	116	156	220	331	618
-10°	10	12	17	27	44	71	102	134	177	252	367
-12.5°	9	12	15	22	35	58	86	115	147	185	252
-15°	9	11	13	19	29	44	67	93	119	147	177
-17.5°	8	10	12	15	21	33	50	70	93	115	134
-20°	7	9	11	13	17	23	34	50	67	86	102



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7	8	10	11	13	18	23	33	44	58	71
-25°	6	7	8	10	11	13	17	21	29	35	44
-27.5°	6	6	7	9	10	11	13	15	19	22	27
-30°	6	6	6	7	8	10	11	12	13	15	17
-32.5°	5	6	6	6	7	8	9	10	11	12	12
-35°	5	5	6	6	6	7	7	8	9	9	10
-37.5°	5	5	5	6	6	6	6	7	7	8	8
-40°	5	5	5	5	6	6	6	6	6	6	7
-42.5°	5	5	5	5	5	5	6	6	6	6	6
-45°	4	5	5	5	5	5	5	5	5	5	6
-47.5°	3	4	4	5	5	5	5	5	5	5	5
-50°	3	3	4	4	4	5	5	5	5	5	5
-52.5°	3	3	3	3	3	4	4	4	4	5	5
-55°	2	3	3	3	3	3	3	3	3	4	4
-57.5°	2	2	2	2	3	3	3	3	3	3	3
-60°	2	2	2	2	2	2	2	2	3	3	3
-62.5°	2	2	2	2	2	2	2	2	2	2	2
-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°	1	1	1	1	1	1	1	1	1	1	1
-75°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	0	1	1	1	1	1	1	1	1	1	1
-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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	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	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
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°	2	2	2	2	2	2	2	2	2	2	2
60°	3	3	3	3	3	3	3	3	3	3	2
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	4	4	4	4	4	4	4	4	4	3	3
52.5°	5	5	5	5	5	5	5	5	5	4	4
50°	5	5	5	5	5	5	5	5	5	5	5
47.5°	5	5	5	5	5	5	5	5	5	5	5
45°	6	6	6	6	6	6	6	6	5	5	5
42.5°	6	6	6	6	6	6	6	6	6	6	6
40°	7	7	7	7	7	7	7	7	6	6	6
37.5°	8	9	9	9	9	9	8	8	8	7	7
35°	10	11	11	11	11	11	10	10	9	9	8
32.5°	13	14	14	14	14	14	13	12	12	11	10
30°	19	21	22	22	22	21	19	17	15	13	12
27.5°	31	35	36	37	36	35	31	27	22	19	15
25°	53	59	63	64	63	59	53	44	35	29	21
22.5°	83	92	97	99	97	92	83	71	58	44	33
20°	116	126	133	135	133	126	116	102	86	67	50
17.5°	156	173	183	187	183	173	156	134	115	93	70
15°	220	259	284	293	284	259	220	177	147	119	93
12.5°	331	448	561	613	561	448	331	252	185	147	115
10°	618	982	1333	1464	1333	982	618	367	252	177	134
7.5°	1210	1966	2562	2781	2562	1966	1210	618	331	220	156
5°	1966	3017	3799	4109	3799	3017	1966	982	448	259	173
2.5°	2562	3799	4875	5359	4875	3799	2562	1333	561	284	183
0°	2781	4109	5359	5974	5359	4109	2781	1464	613	293	187
-2.5°	2562	3799	4875	5359	4875	3799	2562	1333	561	284	183
-5°	1966	3017	3799	4109	3799	3017	1966	982	448	259	173
-7.5°	1210	1966	2562	2781	2562	1966	1210	618	331	220	156
-10°	618	982	1333	1464	1333	982	618	367	252	177	134
-12.5°	331	448	561	613	561	448	331	252	185	147	115
-15°	220	259	284	293	284	259	220	177	147	119	93
-17.5°	156	173	183	187	183	173	156	134	115	93	70
-20°	116	126	133	135	133	126	116	102	86	67	50



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	83	92	97	99	97	92	83	71	58	44	33
-25°	53	59	63	64	63	59	53	44	35	29	21
-27.5°	31	35	36	37	36	35	31	27	22	19	15
-30°	19	21	22	22	22	21	19	17	15	13	12
-32.5°	13	14	14	14	14	14	13	12	12	11	10
-35°	10	11	11	11	11	11	10	10	9	9	8
-37.5°	8	9	9	9	9	9	8	8	8	7	7
-40°	7	7	7	7	7	7	7	7	6	6	6
-42.5°	6	6	6	6	6	6	6	6	6	6	6
-45°	6	6	6	6	6	6	6	6	5	5	5
-47.5°	5	5	5	5	5	5	5	5	5	5	5
-50°	5	5	5	5	5	5	5	5	5	5	5
-52.5°	5	5	5	5	5	5	5	5	5	4	4
-55°	4	4	4	4	4	4	4	4	4	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	3
-60°	3	3	3	3	3	3	3	3	3	3	2
-62.5°	2	2	2	2	2	2	2	2	2	2	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°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	1	1	1	1	1
-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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	1	1	0	0	0	0	0
80°	1	1	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1
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°	2	2	2	2	2	2	1	1	1	1	1
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°	2	2	2	2	2	2	2	2	2	2	2
57.5°	3	3	3	2	2	2	2	2	2	2	2
55°	3	3	3	3	3	3	2	2	2	2	2
52.5°	4	4	3	3	3	3	3	3	2	2	2
50°	5	5	4	4	4	3	3	3	3	2	2
47.5°	5	5	5	5	4	4	3	3	3	3	2
45°	5	5	5	5	5	5	4	4	3	3	3
42.5°	6	5	5	5	5	5	5	4	4	3	3
40°	6	6	6	5	5	5	5	5	4	4	3
37.5°	6	6	6	6	5	5	5	5	5	4	4
35°	7	7	6	6	6	5	5	5	5	5	4
32.5°	9	8	7	6	6	6	5	5	5	5	5
30°	11	10	8	7	6	6	6	5	5	5	5
27.5°	13	11	10	9	7	6	6	6	5	5	5
25°	17	13	11	10	8	7	6	6	6	5	5
22.5°	23	18	13	11	10	8	7	6	6	5	5
20°	34	23	17	13	11	9	7	6	6	6	5
17.5°	50	33	21	15	12	10	8	7	6	6	5
15°	67	44	29	19	13	11	9	7	6	6	5
12.5°	86	58	35	22	15	12	9	8	6	6	5
10°	102	71	44	27	17	12	10	8	7	6	6
7.5°	116	83	53	31	19	13	10	8	7	6	6
5°	126	92	59	35	21	14	11	9	7	6	6
2.5°	133	97	63	36	22	14	11	9	7	6	6
0°	135	99	64	37	22	14	11	9	7	6	6
-2.5°	133	97	63	36	22	14	11	9	7	6	6
-5°	126	92	59	35	21	14	11	9	7	6	6
-7.5°	116	83	53	31	19	13	10	8	7	6	6
-10°	102	71	44	27	17	12	10	8	7	6	6
-12.5°	86	58	35	22	15	12	9	8	6	6	5
-15°	67	44	29	19	13	11	9	7	6	6	5
-17.5°	50	33	21	15	12	10	8	7	6	6	5
-20°	34	23	17	13	11	9	7	6	6	6	5



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	23	18	13	11	10	8	7	6	6	5	5
-25°	17	13	11	10	8	7	6	6	6	5	5
-27.5°	13	11	10	9	7	6	6	6	5	5	5
-30°	11	10	8	7	6	6	6	5	5	5	5
-32.5°	9	8	7	6	6	6	5	5	5	5	5
-35°	7	7	6	6	6	5	5	5	5	5	4
-37.5°	6	6	6	6	5	5	5	5	5	4	4
-40°	6	6	6	5	5	5	5	5	4	4	3
-42.5°	6	5	5	5	5	5	5	4	4	3	3
-45°	5	5	5	5	5	5	4	4	3	3	3
-47.5°	5	5	5	5	4	4	3	3	3	3	2
-50°	5	5	4	4	4	3	3	3	3	2	2
-52.5°	4	4	3	3	3	3	3	3	2	2	2
-55°	3	3	3	3	3	3	2	2	2	2	2
-57.5°	3	3	3	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	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	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°	1	1	1	1	1	1	1	1	1	1	1
-77.5°	1	1	1	1	1	1	1	1	1	1	1
-80°	1	1	1	1	1	1	1	1	1	1	1
-82.5°	1	1	1	1	1	1	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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	0	0	0	0	0	0	0	0	0	0	0
80°	1	1	0	0	0	0	0	0	0	0	0
77.5°	1	1	1	1	1	0	0	0	0	0	0
75°	1	1	1	1	1	1	1	1	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	0	0
70°	1	1	1	1	1	1	1	1	1	1	0
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	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	1	1	1	1	1	1	1
52.5°	2	2	2	2	2	1	1	1	1	1	1
50°	2	2	2	2	2	1	1	1	1	1	1
47.5°	2	2	2	2	2	2	1	1	1	1	1
45°	2	2	2	2	2	2	2	1	1	1	1
42.5°	3	2	2	2	2	2	2	1	1	1	1
40°	3	3	2	2	2	2	2	2	1	1	1
37.5°	3	3	3	2	2	2	2	2	1	1	1
35°	3	3	3	2	2	2	2	2	1	1	1
32.5°	4	3	3	3	2	2	2	2	2	1	1
30°	4	4	3	3	2	2	2	2	2	1	1
27.5°	5	4	3	3	2	2	2	2	2	1	1
25°	5	4	3	3	3	2	2	2	2	1	1
22.5°	5	5	4	3	3	2	2	2	2	1	1
20°	5	5	4	3	3	2	2	2	2	1	1
17.5°	5	5	4	3	3	2	2	2	2	2	1
15°	5	5	4	3	3	3	2	2	2	2	1
12.5°	5	5	5	4	3	3	2	2	2	2	1
10°	5	5	5	4	3	3	2	2	2	2	1
7.5°	5	5	5	4	3	3	2	2	2	2	1
5°	5	5	5	4	3	3	2	2	2	2	1
2.5°	5	5	5	4	3	3	2	2	2	2	1
0°	5	5	5	4	3	3	2	2	2	2	1
-2.5°	5	5	5	4	3	3	2	2	2	2	1
-5°	5	5	5	4	3	3	2	2	2	2	1
-7.5°	5	5	5	4	3	3	2	2	2	2	1
-10°	5	5	5	4	3	3	2	2	2	2	1
-12.5°	5	5	5	4	3	3	2	2	2	2	1
-15°	5	5	4	3	3	3	2	2	2	2	1
-17.5°	5	5	4	3	3	2	2	2	2	2	1
-20°	5	5	4	3	3	2	2	2	2	1	1



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	5	5	4	3	3	2	2	2	2	1	1
-25°	5	4	3	3	3	2	2	2	2	1	1
-27.5°	5	4	3	3	2	2	2	2	2	1	1
-30°	4	4	3	3	2	2	2	2	2	1	1
-32.5°	4	3	3	3	2	2	2	2	2	1	1
-35°	3	3	3	2	2	2	2	2	1	1	1
-37.5°	3	3	3	2	2	2	2	2	1	1	1
-40°	3	3	2	2	2	2	2	2	1	1	1
-42.5°	3	2	2	2	2	2	2	1	1	1	1
-45°	2	2	2	2	2	2	2	1	1	1	1
-47.5°	2	2	2	2	2	2	1	1	1	1	1
-50°	2	2	2	2	2	1	1	1	1	1	1
-52.5°	2	2	2	2	2	1	1	1	1	1	1
-55°	2	2	2	2	1	1	1	1	1	1	1
-57.5°	2	2	2	1	1	1	1	1	1	1	1
-60°	2	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	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	0
-72.5°	1	1	1	1	1	1	1	1	1	0	0
-75°	1	1	1	1	1	1	1	1	0	0	0
-77.5°	1	1	1	1	1	0	0	0	0	0	0
-80°	1	1	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: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-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°	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°	1	0	0	0	0	0	0
62.5°	1	0	0	0	0	0	0
60°	1	0	0	0	0	0	0
57.5°	1	1	0	0	0	0	0
55°	1	1	0	0	0	0	0
52.5°	1	1	0	0	0	0	0
50°	1	1	1	0	0	0	0
47.5°	1	1	1	0	0	0	0
45°	1	1	1	0	0	0	0
42.5°	1	1	1	0	0	0	0
40°	1	1	1	0	0	0	0
37.5°	1	1	1	0	0	0	0
35°	1	1	1	0	0	0	0
32.5°	1	1	1	1	0	0	0
30°	1	1	1	1	0	0	0
27.5°	1	1	1	1	0	0	0
25°	1	1	1	1	0	0	0
22.5°	1	1	1	1	0	0	0
20°	1	1	1	1	0	0	0
17.5°	1	1	1	1	0	0	0
15°	1	1	1	1	0	0	0
12.5°	1	1	1	1	0	0	0
10°	1	1	1	1	0	0	0
7.5°	1	1	1	1	0	0	0
5°	1	1	1	1	0	0	0
2.5°	1	1	1	1	0	0	0
0°	1	1	1	1	0	0	0
-2.5°	1	1	1	1	0	0	0
-5°	1	1	1	1	0	0	0
-7.5°	1	1	1	1	0	0	0
-10°	1	1	1	1	0	0	0
-12.5°	1	1	1	1	0	0	0
-15°	1	1	1	1	0	0	0
-17.5°	1	1	1	1	0	0	0
-20°	1	1	1	1	0	0	0



REPORT NUMBER: P29409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED4080-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

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