

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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
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-LED3090-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

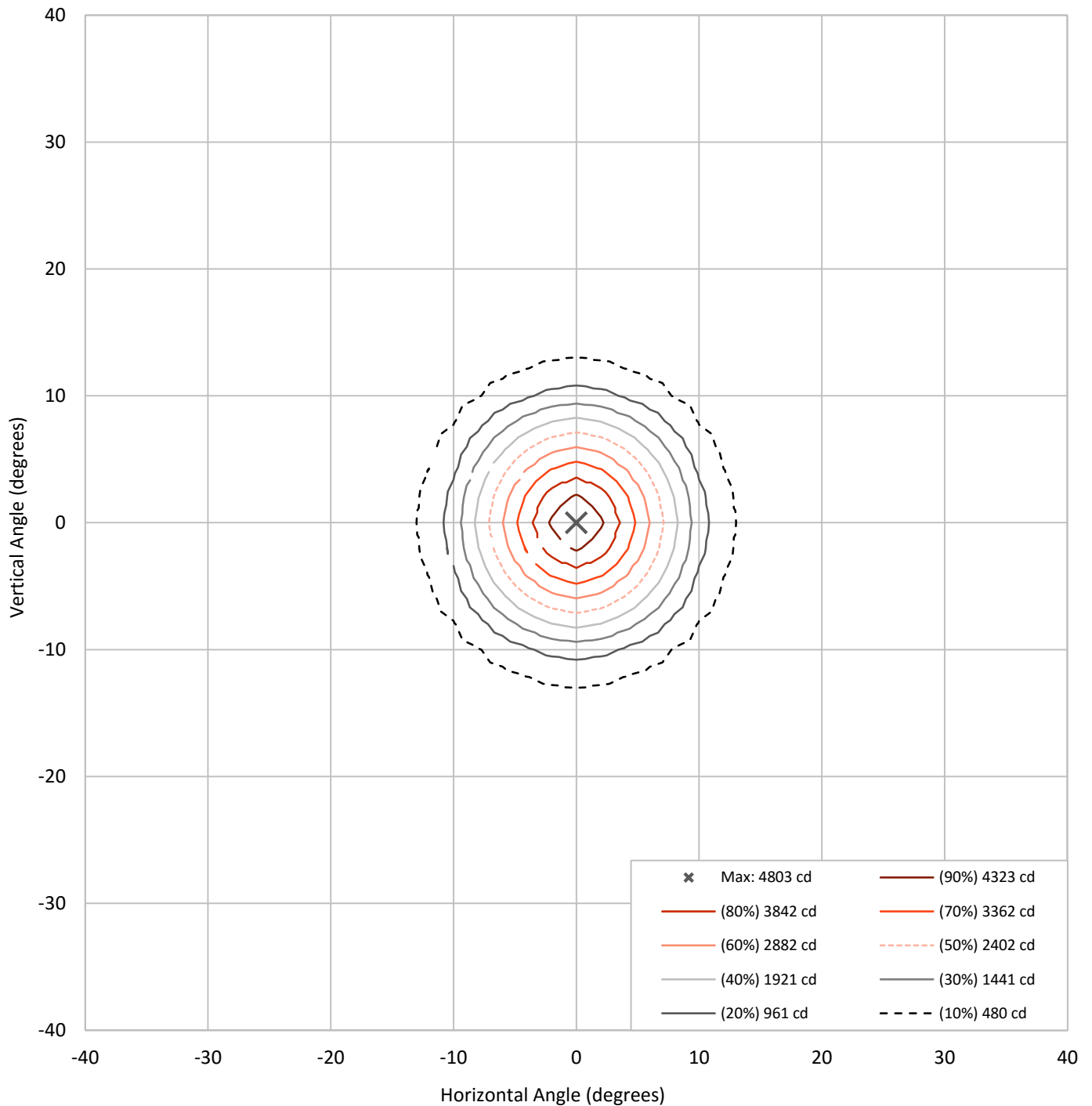
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	380.5 lumens	Max Intensity:	4803 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	38.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.3°H x 14.3°V	Field Angle (10%):	25.1°H x 25.1°V
Beam Lumens:	152.2 lumens	Field Lumens:	286 lumens
Beam Efficiency:	40.0%	Field Efficiency:	75.2%
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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV

Iso-Candela Plot





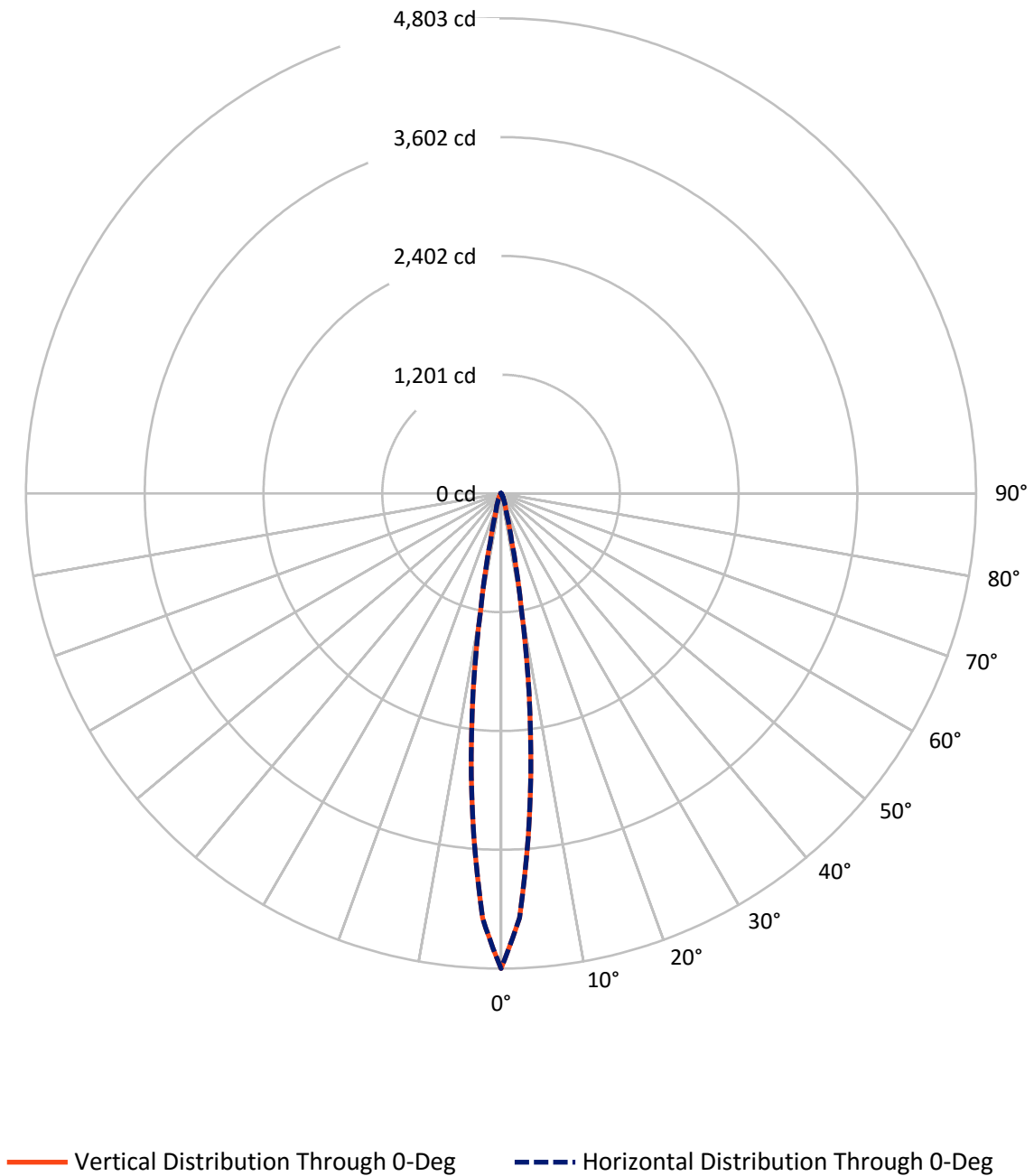
REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									
80	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									
70	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	0.0			
60		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				
50	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			
40		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				
30	0.0	0.0	0.1	0.1	0.2	0.3	0.8	1.6	1.6	0.8	0.3	0.2	0.1	0.1	0.0			
20		0.0	0.1	0.1	0.2	0.8	3.1	8.6	8.6	3.1	0.8	0.2	0.1	0.1				
10	0.0	0.0	0.1	0.1	0.3	1.5	8.4	66.0	66.0	8.4	1.5	0.3	0.1	0.1	0.0			
0		0.0	0.1	0.1	0.3	1.5	8.4	66.0	66.0	8.4	1.5	0.3	0.1	0.1				
-10	0.0	0.0	0.1	0.1	0.2	0.8	3.1	8.6	8.6	3.1	0.8	0.2	0.1	0.1	0.0			
-20		0.0	0.1	0.1	0.2	0.3	0.8	1.6	1.6	0.8	0.3	0.2	0.1	0.1				
-30	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			
-40		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				
-50	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	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	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0				
-90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0									

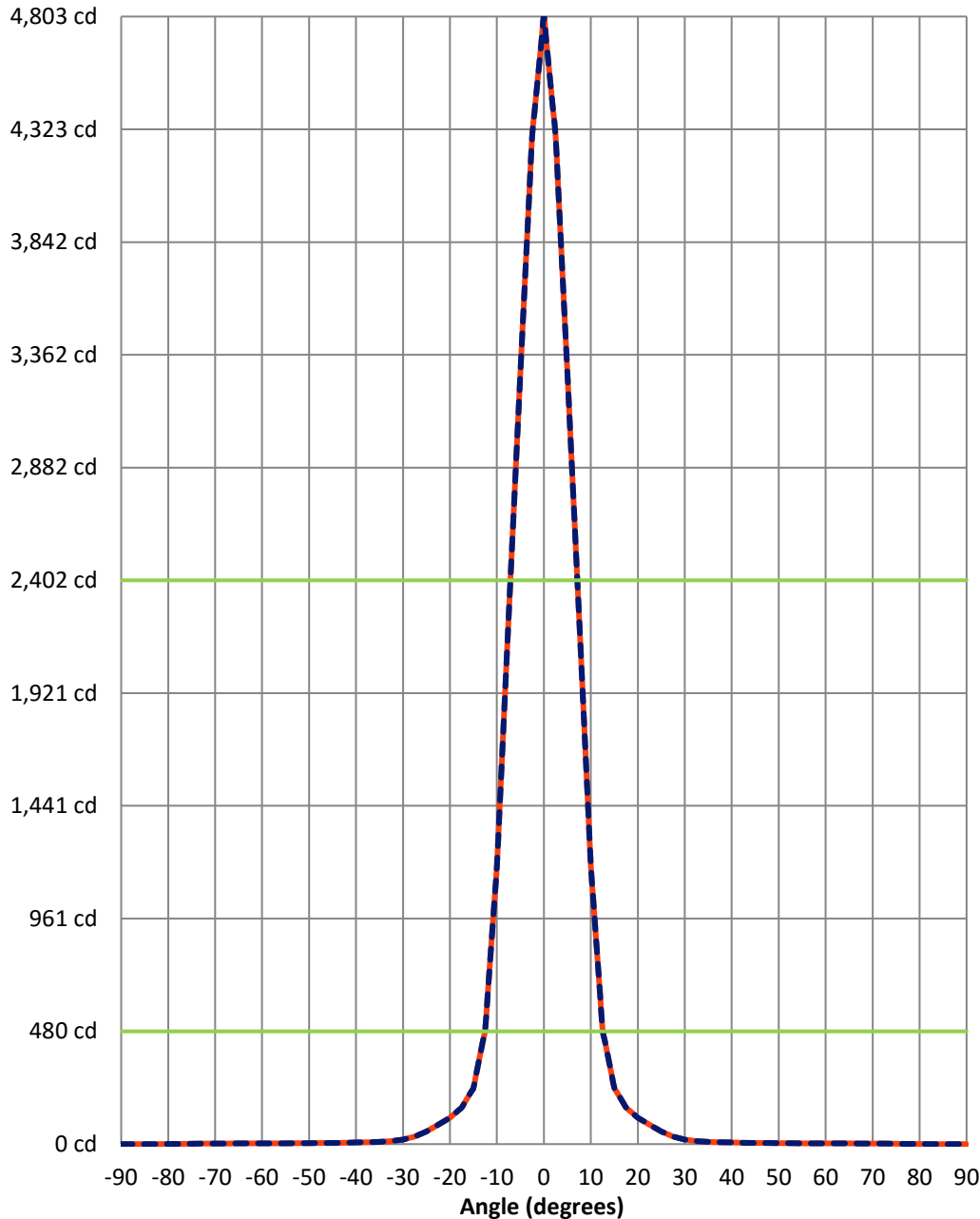
REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 14.3°
V Angle: 14.3°
Lumens: 152.2
Efficiency: 40.0%

Field:
H Angle: 25.1°
V Angle: 25.1°
Lumens: 286
Efficiency: 75.2%

Spill:
Lumens: 94.5
Efficiency: 24.8%

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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	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	1
65°	0	0	0	0	0	0	0	0	0	1	1
62.5°	0	0	0	0	0	0	0	0	1	1	1
60°	0	0	0	0	0	0	0	0	1	1	1
57.5°	0	0	0	0	0	0	0	1	1	1	1
55°	0	0	0	0	0	0	0	1	1	1	1
52.5°	0	0	0	0	0	0	1	1	1	1	2
50°	0	0	0	0	0	0	1	1	1	1	2
47.5°	0	0	0	0	0	0	1	1	1	2	2
45°	0	0	0	0	0	0	1	1	1	2	2
42.5°	0	0	0	0	0	1	1	1	1	2	2
40°	0	0	0	0	0	1	1	1	2	2	2
37.5°	0	0	0	0	0	1	1	1	2	2	2
35°	0	0	0	0	0	1	1	1	2	2	2
32.5°	0	0	0	0	0	1	1	2	2	2	2
30°	0	0	0	0	0	1	1	2	2	2	2
27.5°	0	0	0	0	0	1	1	2	2	2	2
25°	0	0	0	0	0	1	1	2	2	2	2
22.5°	0	0	0	0	1	1	1	2	2	2	3
20°	0	0	0	0	1	1	1	2	2	2	3
17.5°	0	0	0	0	1	1	1	2	2	2	3
15°	0	0	0	0	1	1	1	2	2	2	3
12.5°	0	0	0	0	1	1	1	2	2	2	3
10°	0	0	0	0	1	1	2	2	2	2	3
7.5°	0	0	0	0	1	1	2	2	2	2	3
5°	0	0	0	0	1	1	2	2	2	2	3
2.5°	0	0	0	0	1	1	2	2	2	2	3
0°	0	0	0	0	1	1	2	2	2	2	3
-2.5°	0	0	0	0	1	1	2	2	2	2	3
-5°	0	0	0	0	1	1	2	2	2	2	3
-7.5°	0	0	0	0	1	1	2	2	2	2	3
-10°	0	0	0	0	1	1	2	2	2	2	3
-12.5°	0	0	0	0	1	1	1	2	2	2	3
-15°	0	0	0	0	1	1	1	2	2	2	3
-17.5°	0	0	0	0	1	1	1	2	2	2	3
-20°	0	0	0	0	1	1	1	2	2	2	3



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	0	1	1	1	2	2	2	3
-25°	0	0	0	0	0	1	1	2	2	2	2
-27.5°	0	0	0	0	0	1	1	2	2	2	2
-30°	0	0	0	0	0	1	1	2	2	2	2
-32.5°	0	0	0	0	0	1	1	2	2	2	2
-35°	0	0	0	0	0	1	1	1	2	2	2
-37.5°	0	0	0	0	0	1	1	1	2	2	2
-40°	0	0	0	0	0	1	1	1	2	2	2
-42.5°	0	0	0	0	0	1	1	1	1	2	2
-45°	0	0	0	0	0	0	1	1	1	2	2
-47.5°	0	0	0	0	0	0	1	1	1	2	2
-50°	0	0	0	0	0	0	1	1	1	1	2
-52.5°	0	0	0	0	0	0	1	1	1	1	2
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	1	1	1	1
-60°	0	0	0	0	0	0	0	0	1	1	1
-62.5°	0	0	0	0	0	0	0	0	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	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	1	1	1
75°	0	0	0	0	1	1	1	1	1	1	1
72.5°	0	0	1	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1	1	2	2
67.5°	1	1	1	1	1	1	2	2	2	2	2
65°	1	1	1	1	2	2	2	2	2	2	2
62.5°	1	1	1	2	2	2	2	2	2	2	2
60°	1	1	2	2	2	2	2	2	2	2	3
57.5°	1	2	2	2	2	2	2	2	3	3	3
55°	2	2	2	2	2	2	2	3	3	3	3
52.5°	2	2	2	2	2	3	3	3	3	3	3
50°	2	2	2	2	3	3	3	3	3	3	3
47.5°	2	2	2	2	3	3	3	3	3	3	3
45°	2	2	2	3	3	3	3	3	3	3	3
42.5°	2	2	3	3	3	3	3	3	3	3	3
40°	2	2	3	3	3	3	3	3	3	3	4
37.5°	2	3	3	3	3	3	3	3	3	4	4
35°	2	3	3	3	3	3	3	3	4	4	4
32.5°	3	3	3	3	3	3	3	4	4	4	5
30°	3	3	3	3	3	3	3	4	4	4	5
27.5°	3	3	3	3	3	3	4	4	4	5	5
25°	3	3	3	3	3	3	4	4	5	5	5
22.5°	3	3	3	3	3	4	4	4	5	5	5
20°	3	3	3	3	3	4	4	5	5	5	6
17.5°	3	3	3	3	3	4	4	5	5	5	7
15°	3	3	3	3	4	4	4	5	5	6	7
12.5°	3	3	3	3	4	4	4	5	5	6	7
10°	3	3	3	3	4	4	5	5	5	7	8
7.5°	3	3	3	3	4	4	5	5	5	7	8
5°	3	3	3	3	4	4	5	5	6	7	8
2.5°	3	3	3	3	4	4	5	5	6	7	8
0°	3	3	3	3	4	4	5	5	6	7	8
-2.5°	3	3	3	3	4	4	5	5	6	7	8
-5°	3	3	3	3	4	4	5	5	6	7	8
-7.5°	3	3	3	3	4	4	5	5	5	7	8
-10°	3	3	3	3	4	4	5	5	5	7	8
-12.5°	3	3	3	3	4	4	4	5	5	6	7
-15°	3	3	3	3	4	4	4	5	5	6	7
-17.5°	3	3	3	3	3	4	4	5	5	5	7
-20°	3	3	3	3	3	4	4	5	5	5	6



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	3	3	3	3	3	4	4	4	5	5	5
-25°	3	3	3	3	3	3	4	4	5	5	5
-27.5°	3	3	3	3	3	3	4	4	4	5	5
-30°	3	3	3	3	3	3	3	4	4	4	5
-32.5°	3	3	3	3	3	3	3	4	4	4	5
-35°	2	3	3	3	3	3	3	3	4	4	4
-37.5°	2	3	3	3	3	3	3	3	3	4	4
-40°	2	2	3	3	3	3	3	3	3	3	4
-42.5°	2	2	3	3	3	3	3	3	3	3	3
-45°	2	2	2	3	3	3	3	3	3	3	3
-47.5°	2	2	2	2	3	3	3	3	3	3	3
-50°	2	2	2	2	3	3	3	3	3	3	3
-52.5°	2	2	2	2	2	3	3	3	3	3	3
-55°	2	2	2	2	2	2	2	3	3	3	3
-57.5°	1	2	2	2	2	2	2	2	3	3	3
-60°	1	1	2	2	2	2	2	2	2	2	3
-62.5°	1	1	1	2	2	2	2	2	2	2	2
-65°	1	1	1	1	2	2	2	2	2	2	2
-67.5°	1	1	1	1	1	1	2	2	2	2	2
-70°	1	1	1	1	1	1	1	1	1	2	2
-72.5°	0	0	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	1	1	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	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	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	2
72.5°	1	2	2	2	2	2	2	2	2	2	2
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	3	3	3	3	3	3
62.5°	2	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	3	4	4	4
50°	3	3	3	3	3	4	4	4	4	4	4
47.5°	3	3	3	4	4	4	4	4	4	4	5
45°	3	4	4	4	4	4	5	5	5	5	5
42.5°	4	4	4	4	5	5	5	5	5	5	5
40°	4	4	4	5	5	5	5	5	6	6	7
37.5°	4	5	5	5	5	5	6	7	7	7	8
35°	5	5	5	5	6	7	7	8	8	8	9
32.5°	5	5	5	6	7	8	8	9	9	10	11
30°	5	5	6	7	8	8	9	10	12	13	15
27.5°	5	6	7	8	9	10	11	14	17	19	24
25°	6	7	8	9	10	12	15	19	25	31	38
22.5°	7	8	8	10	12	16	21	28	38	49	59
20°	7	8	9	11	15	21	30	42	56	72	85
17.5°	8	9	10	14	19	28	42	59	78	96	111
15°	8	9	12	17	25	38	56	78	99	122	148
12.5°	8	10	13	19	31	49	72	96	122	154	207
10°	9	11	15	24	38	59	85	111	148	207	294
7.5°	9	12	17	27	45	69	97	130	181	267	491
5°	9	12	18	30	50	77	105	144	213	357	788
2.5°	10	13	19	32	53	81	111	153	232	446	1077
0°	10	13	19	32	54	83	112	156	239	487	1185
-2.5°	10	13	19	32	53	81	111	153	232	446	1077
-5°	9	12	18	30	50	77	105	144	213	357	788
-7.5°	9	12	17	27	45	69	97	130	181	267	491
-10°	9	11	15	24	38	59	85	111	148	207	294
-12.5°	8	10	13	19	31	49	72	96	122	154	207
-15°	8	9	12	17	25	38	56	78	99	122	148
-17.5°	8	9	10	14	19	28	42	59	78	96	111
-20°	7	8	9	11	15	21	30	42	56	72	85



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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	8	10	12	16	21	28	38	49	59
-25°	6	7	8	9	10	12	15	19	25	31	38
-27.5°	5	6	7	8	9	10	11	14	17	19	24
-30°	5	5	6	7	8	8	9	10	12	13	15
-32.5°	5	5	5	6	7	8	8	9	9	10	11
-35°	5	5	5	5	6	7	7	8	8	8	9
-37.5°	4	5	5	5	5	5	6	7	7	7	8
-40°	4	4	4	5	5	5	5	5	6	6	7
-42.5°	4	4	4	4	5	5	5	5	5	5	5
-45°	3	4	4	4	4	4	5	5	5	5	5
-47.5°	3	3	3	4	4	4	4	4	4	4	5
-50°	3	3	3	3	3	4	4	4	4	4	4
-52.5°	3	3	3	3	3	3	3	3	4	4	4
-55°	3	3	3	3	3	3	3	3	3	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	3
-62.5°	2	3	3	3	3	3	3	3	3	3	3
-65°	2	2	2	2	2	3	3	3	3	3	3
-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	2	2	2	2	2	2	2	2	2	2
-75°	1	1	1	1	1	1	1	1	1	1	2
-77.5°	1	1	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	0	0	0	0	0	0	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°	2	2	2	2	2	2	2	2	1	1	1
72.5°	2	2	2	2	2	2	2	2	2	2	2
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°	3	3	3	3	3	3	3	3	3	3	3
62.5°	3	3	3	3	3	3	3	3	3	3	3
60°	3	3	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	4	4	4	4	4	4	4	4	4	4	3
50°	4	4	4	4	4	4	4	4	4	4	4
47.5°	5	5	5	5	5	5	5	5	4	4	4
45°	5	5	5	5	5	5	5	5	5	5	5
42.5°	5	6	6	6	6	6	5	5	5	5	5
40°	7	7	7	7	7	7	7	7	6	6	5
37.5°	8	8	8	8	8	8	8	8	7	7	7
35°	9	9	10	10	10	9	9	9	8	8	8
32.5°	12	12	13	13	13	12	12	11	10	9	9
30°	17	18	19	19	19	18	17	15	13	12	10
27.5°	27	30	32	32	32	30	27	24	19	17	14
25°	45	50	53	54	53	50	45	38	31	25	19
22.5°	69	77	81	83	81	77	69	59	49	38	28
20°	97	105	111	112	111	105	97	85	72	56	42
17.5°	130	144	153	156	153	144	130	111	96	78	59
15°	181	213	232	239	232	213	181	148	122	99	78
12.5°	267	357	446	487	446	357	267	207	154	122	96
10°	491	788	1077	1185	1077	788	491	294	207	148	111
7.5°	976	1593	2072	2247	2072	1593	976	491	267	181	130
5°	1593	2434	3047	3288	3047	2434	1593	788	357	213	144
2.5°	2072	3047	3894	4294	3894	3047	2072	1077	446	232	153
0°	2247	3288	4294	4803	4294	3288	2247	1185	487	239	156
-2.5°	2072	3047	3894	4294	3894	3047	2072	1077	446	232	153
-5°	1593	2434	3047	3288	3047	2434	1593	788	357	213	144
-7.5°	976	1593	2072	2247	2072	1593	976	491	267	181	130
-10°	491	788	1077	1185	1077	788	491	294	207	148	111
-12.5°	267	357	446	487	446	357	267	207	154	122	96
-15°	181	213	232	239	232	213	181	148	122	99	78
-17.5°	130	144	153	156	153	144	130	111	96	78	59
-20°	97	105	111	112	111	105	97	85	72	56	42



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	69	77	81	83	81	77	69	59	49	38	28
-25°	45	50	53	54	53	50	45	38	31	25	19
-27.5°	27	30	32	32	32	30	27	24	19	17	14
-30°	17	18	19	19	19	18	17	15	13	12	10
-32.5°	12	12	13	13	13	12	12	11	10	9	9
-35°	9	9	10	10	10	9	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	5
-42.5°	5	6	6	6	6	6	5	5	5	5	5
-45°	5	5	5	5	5	5	5	5	5	5	5
-47.5°	5	5	5	5	5	5	5	5	4	4	4
-50°	4	4	4	4	4	4	4	4	4	4	4
-52.5°	4	4	4	4	4	4	4	4	4	4	3
-55°	3	3	3	3	3	3	3	3	3	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	3
-62.5°	3	3	3	3	3	3	3	3	3	3	3
-65°	3	3	3	3	3	3	3	3	3	3	3
-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°	2	2	2	2	2	2	2	2	2	2	2
-75°	2	2	2	2	2	2	2	2	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	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	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	1	1	1	1	1	0
75°	1	1	1	1	1	1	1	1	1	1	1
72.5°	2	2	2	2	2	2	1	1	1	1	1
70°	2	2	2	2	2	2	2	2	2	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	3	3	2	2	2	2	2	2	2	2	2
62.5°	3	3	3	3	3	3	2	2	2	2	2
60°	3	3	3	3	3	3	3	3	2	2	2
57.5°	3	3	3	3	3	3	3	3	3	3	2
55°	3	3	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	3	3	3	3
50°	4	4	3	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	3	3	3	3	3	3	3
45°	5	4	4	4	4	4	3	3	3	3	3
42.5°	5	5	5	4	4	4	4	3	3	3	3
40°	5	5	5	5	4	4	4	4	3	3	3
37.5°	6	5	5	5	5	5	4	4	4	3	3
35°	7	7	6	5	5	5	5	4	4	4	3
32.5°	8	8	7	6	5	5	5	5	4	4	4
30°	9	8	8	7	6	5	5	5	4	4	4
27.5°	11	10	9	8	7	6	5	5	5	4	4
25°	15	12	10	9	8	7	6	5	5	5	4
22.5°	21	16	12	10	8	8	7	5	5	5	4
20°	30	21	15	11	9	8	7	6	5	5	5
17.5°	42	28	19	14	10	9	8	7	5	5	5
15°	56	38	25	17	12	9	8	7	6	5	5
12.5°	72	49	31	19	13	10	8	7	6	5	5
10°	85	59	38	24	15	11	9	8	7	5	5
7.5°	97	69	45	27	17	12	9	8	7	5	5
5°	105	77	50	30	18	12	9	8	7	6	5
2.5°	111	81	53	32	19	13	10	8	7	6	5
0°	112	83	54	32	19	13	10	8	7	6	5
-2.5°	111	81	53	32	19	13	10	8	7	6	5
-5°	105	77	50	30	18	12	9	8	7	6	5
-7.5°	97	69	45	27	17	12	9	8	7	5	5
-10°	85	59	38	24	15	11	9	8	7	5	5
-12.5°	72	49	31	19	13	10	8	7	6	5	5
-15°	56	38	25	17	12	9	8	7	6	5	5
-17.5°	42	28	19	14	10	9	8	7	5	5	5
-20°	30	21	15	11	9	8	7	6	5	5	5



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	21	16	12	10	8	8	7	5	5	5	4
-25°	15	12	10	9	8	7	6	5	5	5	4
-27.5°	11	10	9	8	7	6	5	5	5	4	4
-30°	9	8	8	7	6	5	5	5	4	4	4
-32.5°	8	8	7	6	5	5	5	5	4	4	4
-35°	7	7	6	5	5	5	5	4	4	4	3
-37.5°	6	5	5	5	5	5	4	4	4	3	3
-40°	5	5	5	5	4	4	4	4	3	3	3
-42.5°	5	5	5	4	4	4	4	3	3	3	3
-45°	5	4	4	4	4	4	3	3	3	3	3
-47.5°	4	4	4	4	3	3	3	3	3	3	3
-50°	4	4	3	3	3	3	3	3	3	3	3
-52.5°	3	3	3	3	3	3	3	3	3	3	3
-55°	3	3	3	3	3	3	3	3	3	3	3
-57.5°	3	3	3	3	3	3	3	3	3	3	2
-60°	3	3	3	3	3	3	3	3	2	2	2
-62.5°	3	3	3	3	3	3	2	2	2	2	2
-65°	3	3	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	1	1
-72.5°	2	2	2	2	2	2	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	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	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°	1	1	1	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	0	0	0	0	0	0
70°	1	1	1	1	1	1	1	0	0	0	0
67.5°	2	1	1	1	1	1	1	1	0	0	0
65°	2	2	2	1	1	1	1	1	1	0	0
62.5°	2	2	2	2	1	1	1	1	1	1	0
60°	2	2	2	2	2	1	1	1	1	1	0
57.5°	2	2	2	2	2	2	1	1	1	1	1
55°	2	2	2	2	2	2	2	1	1	1	1
52.5°	3	3	2	2	2	2	2	2	1	1	1
50°	3	3	3	2	2	2	2	2	1	1	1
47.5°	3	3	3	2	2	2	2	2	2	1	1
45°	3	3	3	3	2	2	2	2	2	1	1
42.5°	3	3	3	3	3	2	2	2	2	1	1
40°	3	3	3	3	3	2	2	2	2	2	1
37.5°	3	3	3	3	3	3	2	2	2	2	1
35°	3	3	3	3	3	3	2	2	2	2	1
32.5°	3	3	3	3	3	3	3	2	2	2	2
30°	3	3	3	3	3	3	3	2	2	2	2
27.5°	4	3	3	3	3	3	3	2	2	2	2
25°	4	3	3	3	3	3	3	2	2	2	2
22.5°	4	4	3	3	3	3	3	3	2	2	2
20°	4	4	3	3	3	3	3	3	2	2	2
17.5°	4	4	3	3	3	3	3	3	2	2	2
15°	4	4	4	3	3	3	3	3	2	2	2
12.5°	4	4	4	3	3	3	3	3	2	2	2
10°	5	4	4	3	3	3	3	3	2	2	2
7.5°	5	4	4	3	3	3	3	3	2	2	2
5°	5	4	4	3	3	3	3	3	2	2	2
2.5°	5	4	4	3	3	3	3	3	2	2	2
0°	5	4	4	3	3	3	3	3	2	2	2
-2.5°	5	4	4	3	3	3	3	3	2	2	2
-5°	5	4	4	3	3	3	3	3	2	2	2
-7.5°	5	4	4	3	3	3	3	3	2	2	2
-10°	5	4	4	3	3	3	3	3	2	2	2
-12.5°	4	4	4	3	3	3	3	3	2	2	2
-15°	4	4	4	3	3	3	3	3	2	2	2
-17.5°	4	4	3	3	3	3	3	3	2	2	2
-20°	4	4	3	3	3	3	3	3	2	2	2



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	4	4	3	3	3	3	3	3	2	2	2
-25°	4	3	3	3	3	3	3	2	2	2	2
-27.5°	4	3	3	3	3	3	3	2	2	2	2
-30°	3	3	3	3	3	3	3	2	2	2	2
-32.5°	3	3	3	3	3	3	3	2	2	2	2
-35°	3	3	3	3	3	3	2	2	2	2	1
-37.5°	3	3	3	3	3	3	2	2	2	2	1
-40°	3	3	3	3	3	2	2	2	2	2	1
-42.5°	3	3	3	3	3	2	2	2	2	1	1
-45°	3	3	3	3	2	2	2	2	2	1	1
-47.5°	3	3	3	2	2	2	2	2	2	1	1
-50°	3	3	3	2	2	2	2	2	1	1	1
-52.5°	3	3	2	2	2	2	2	2	1	1	1
-55°	2	2	2	2	2	2	2	1	1	1	1
-57.5°	2	2	2	2	2	2	1	1	1	1	1
-60°	2	2	2	2	2	1	1	1	1	1	0
-62.5°	2	2	2	2	1	1	1	1	1	1	0
-65°	2	2	2	1	1	1	1	1	1	0	0
-67.5°	2	1	1	1	1	1	1	1	0	0	0
-70°	1	1	1	1	1	1	1	0	0	0	0
-72.5°	1	1	1	1	1	0	0	0	0	0	0
-75°	1	1	1	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: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-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°	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°	1	0	0	0	0	0	0
50°	1	0	0	0	0	0	0
47.5°	1	0	0	0	0	0	0
45°	1	0	0	0	0	0	0
42.5°	1	1	0	0	0	0	0
40°	1	1	0	0	0	0	0
37.5°	1	1	0	0	0	0	0
35°	1	1	0	0	0	0	0
32.5°	1	1	0	0	0	0	0
30°	1	1	0	0	0	0	0
27.5°	1	1	0	0	0	0	0
25°	1	1	0	0	0	0	0
22.5°	1	1	1	0	0	0	0
20°	1	1	1	0	0	0	0
17.5°	1	1	1	0	0	0	0
15°	1	1	1	0	0	0	0
12.5°	1	1	1	0	0	0	0
10°	2	1	1	0	0	0	0
7.5°	2	1	1	0	0	0	0
5°	2	1	1	0	0	0	0
2.5°	2	1	1	0	0	0	0
0°	2	1	1	0	0	0	0
-2.5°	2	1	1	0	0	0	0
-5°	2	1	1	0	0	0	0
-7.5°	2	1	1	0	0	0	0
-10°	2	1	1	0	0	0	0
-12.5°	1	1	1	0	0	0	0
-15°	1	1	1	0	0	0	0
-17.5°	1	1	1	0	0	0	0
-20°	1	1	1	0	0	0	0



REPORT NUMBER: P220370 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

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