

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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
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]-LED3090-S-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

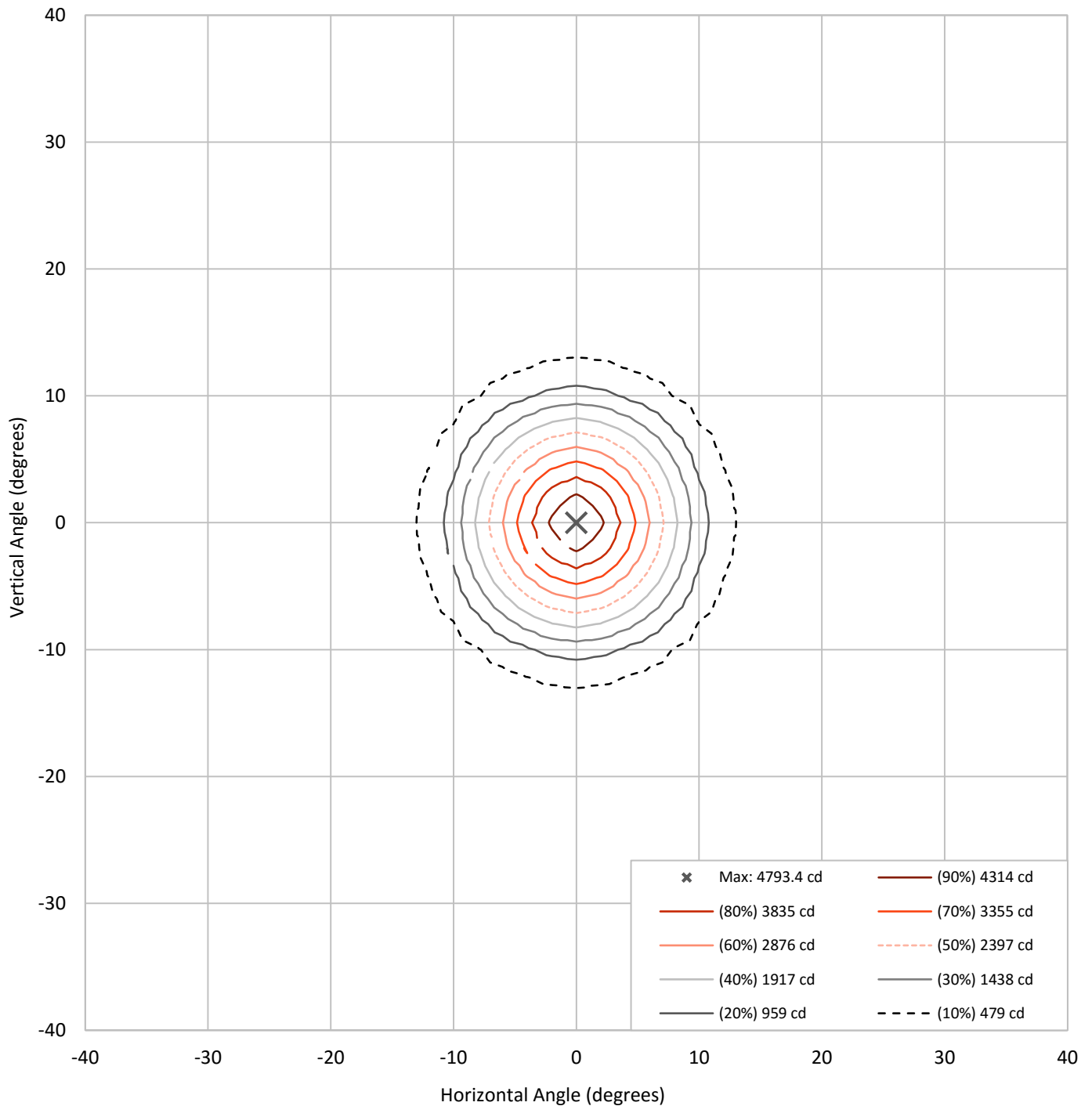
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	374.7 lumens	Max Intensity:	4793.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	37.5 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	14.2°H x 14.2°V	Field Angle (10%):	25.2°H x 25.2°V
Beam Lumens:	152.3 lumens	Field Lumens:	285.4 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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-S-WT-L1-UNV

Iso-Candela Plot



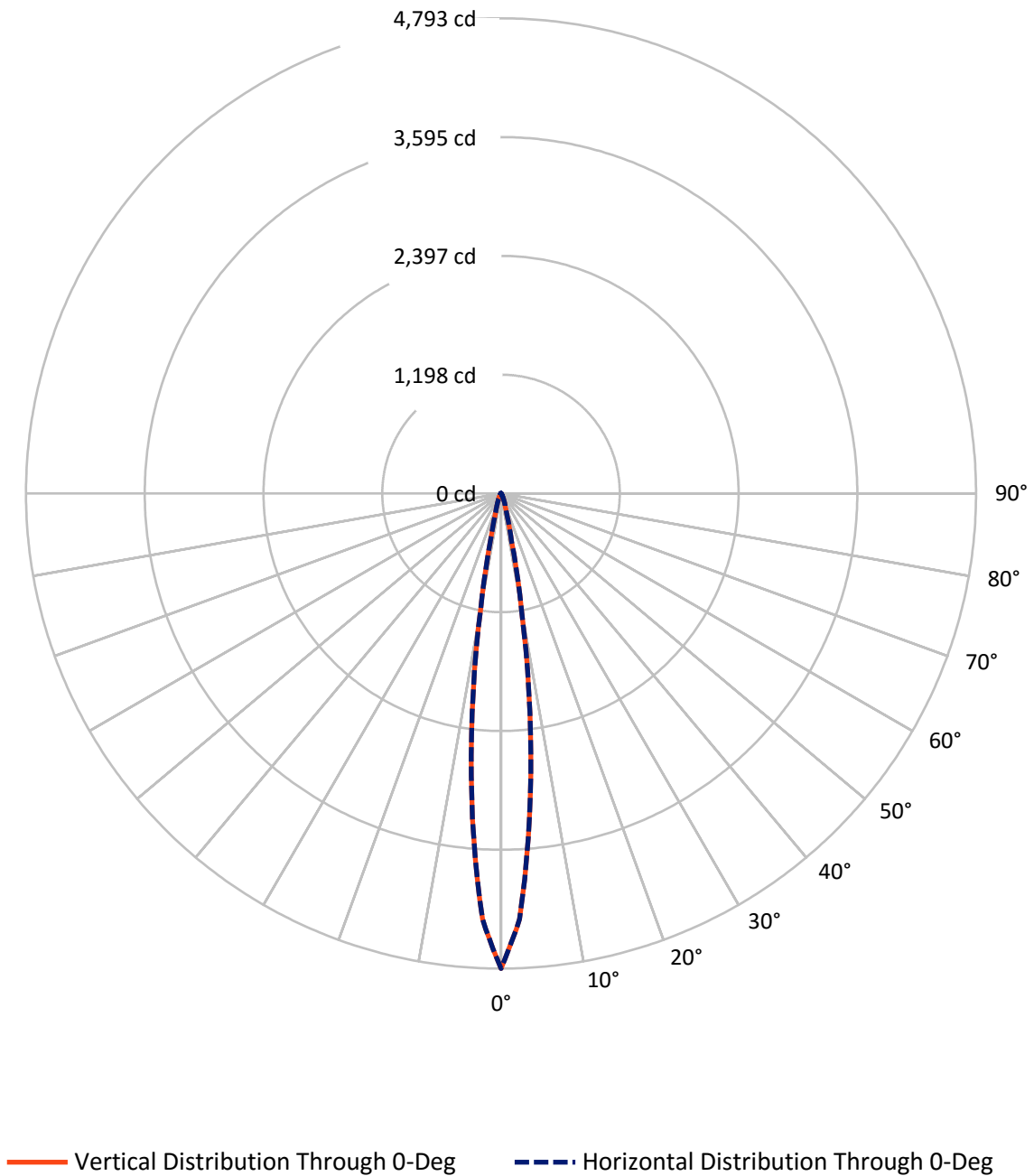
REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-S-WT-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.1	0.1	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	0.0	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				
40		0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.0		0.0			
30	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5	1.5	0.8	0.3	0.1	0.1	0.0	0.0	0.0			
20		0.0	0.1	0.1	0.2	0.7	3.0	8.5	8.5	3.0	0.7	0.2	0.1	0.1	0.0				
10	0.0	0.0	0.1	0.1	0.2	1.4	8.3	65.8	65.8	8.3	1.4	0.2	0.1	0.1	0.0	0.0			
0		0.0	0.1	0.1	0.2	1.4	8.3	65.8	65.8	8.3	1.4	0.2	0.1	0.1	0.0				
-10	0.0	0.0	0.1	0.1	0.2	0.7	3.0	8.5	8.5	3.0	0.7	0.2	0.1	0.1	0.0	0.0			
-20		0.0	0.0	0.1	0.1	0.3	0.8	1.5	1.5	0.8	0.3	0.1	0.1	0.0	0.0				
-30	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	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	0.1	0.1	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	0.1	0.1	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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

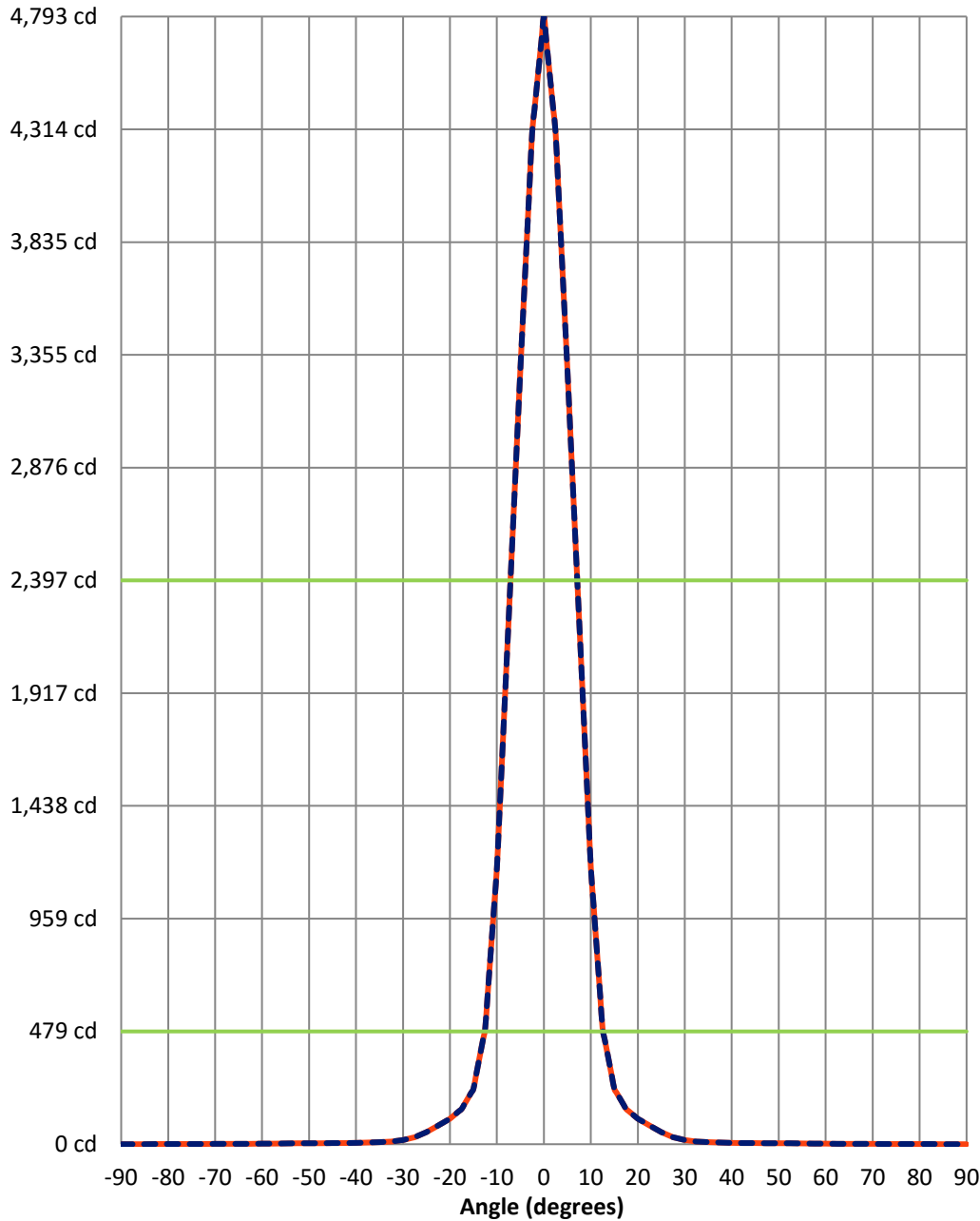
REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-S-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Plot



Beam:
H Angle: 14.2°
V Angle: 14.2°
Lumens: 152.3
Efficiency: 40.6%

Field:
H Angle: 25.2°
V Angle: 25.2°
Lumens: 285.4
Efficiency: 76.2%

Spill:
Lumens: 89.3
Efficiency: 23.8%

— 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	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	0	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	0	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	1
37.5°	0	0	0	0	1	1	1	1	1	1	1
35°	0	0	0	0	1	1	1	1	1	1	2
32.5°	0	0	0	0	1	1	1	1	1	1	2
30°	0	0	0	0	1	1	1	1	1	1	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	1	2	2
15°	0	0	0	1	1	1	1	1	1	2	2
12.5°	0	0	0	1	1	1	1	1	1	2	2
10°	0	0	0	1	1	1	1	1	1	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	1	2	2
-12.5°	0	0	0	1	1	1	1	1	1	2	2
-15°	0	0	0	1	1	1	1	1	1	2	2
-17.5°	0	0	0	1	1	1	1	1	1	2	2
-20°	0	0	0	1	1	1	1	1	1	2	2



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	0	1	1	1	1	1	1	2
-32.5°	0	0	0	0	1	1	1	1	1	1	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	1
-40°	0	0	0	0	1	1	1	1	1	1	1
-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	0	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	0	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	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1
62.5°	1	1	1	1	1	1	1	1	2	2	2
60°	1	1	1	1	1	1	2	2	2	2	2
57.5°	1	1	1	1	1	2	2	2	2	2	2
55°	1	1	1	1	2	2	2	2	2	2	2
52.5°	1	1	1	2	2	2	2	2	2	2	2
50°	1	1	2	2	2	2	2	2	2	2	2
47.5°	1	2	2	2	2	2	2	2	2	2	2
45°	1	2	2	2	2	2	2	2	2	2	3
42.5°	2	2	2	2	2	2	2	2	3	3	3
40°	2	2	2	2	2	2	2	2	3	3	4
37.5°	2	2	2	2	2	2	2	3	3	4	4
35°	2	2	2	2	2	2	3	3	4	4	4
32.5°	2	2	2	2	2	3	3	4	4	4	4
30°	2	2	2	2	2	3	3	4	4	4	4
27.5°	2	2	2	2	2	3	4	4	4	4	5
25°	2	2	2	2	3	3	4	4	4	4	5
22.5°	2	2	2	2	3	4	4	4	4	5	5
20°	2	2	2	2	3	4	4	4	4	5	5
17.5°	2	2	2	3	3	4	4	4	5	5	5
15°	2	2	2	3	4	4	4	4	5	5	6
12.5°	2	2	2	3	4	4	4	4	5	5	6
10°	2	2	2	3	4	4	4	5	5	5	6
7.5°	2	2	2	3	4	4	4	5	5	5	7
5°	2	2	2	3	4	4	4	5	5	6	7
2.5°	2	2	2	3	4	4	4	5	5	6	7
0°	2	2	2	3	4	4	4	5	5	6	7
-2.5°	2	2	2	3	4	4	4	5	5	6	7
-5°	2	2	2	3	4	4	4	5	5	6	7
-7.5°	2	2	2	3	4	4	4	5	5	5	7
-10°	2	2	2	3	4	4	4	5	5	5	6
-12.5°	2	2	2	3	4	4	4	4	5	5	6
-15°	2	2	2	3	4	4	4	4	5	5	6
-17.5°	2	2	2	3	3	4	4	4	5	5	5
-20°	2	2	2	2	3	4	4	4	4	5	5



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	2	2	2	2	3	4	4	4	4	5	5
-25°	2	2	2	2	3	3	4	4	4	4	5
-27.5°	2	2	2	2	2	3	4	4	4	4	5
-30°	2	2	2	2	2	3	3	4	4	4	4
-32.5°	2	2	2	2	2	3	3	4	4	4	4
-35°	2	2	2	2	2	2	3	3	4	4	4
-37.5°	2	2	2	2	2	2	2	3	3	4	4
-40°	2	2	2	2	2	2	2	2	3	3	4
-42.5°	2	2	2	2	2	2	2	2	2	3	3
-45°	1	2	2	2	2	2	2	2	2	2	3
-47.5°	1	2	2	2	2	2	2	2	2	2	2
-50°	1	1	2	2	2	2	2	2	2	2	2
-52.5°	1	1	1	2	2	2	2	2	2	2	2
-55°	1	1	1	1	2	2	2	2	2	2	2
-57.5°	1	1	1	1	1	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	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°	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	0	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	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	1	1	1	1
67.5°	1	1	1	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	2	2	2
57.5°	2	2	2	2	2	2	2	2	2	2	2
55°	2	2	2	2	2	2	2	3	3	3	3
52.5°	2	2	2	2	3	3	3	3	4	4	4
50°	2	3	3	3	3	4	4	4	4	4	4
47.5°	3	3	3	4	4	4	4	4	4	4	4
45°	3	4	4	4	4	4	4	4	4	4	5
42.5°	4	4	4	4	4	4	4	5	5	5	5
40°	4	4	4	4	4	5	5	5	5	5	5
37.5°	4	4	4	5	5	5	5	5	6	6	6
35°	4	4	5	5	5	5	6	6	7	8	8
32.5°	4	5	5	5	6	6	7	8	9	9	10
30°	5	5	5	6	7	8	8	9	11	12	14
27.5°	5	5	6	7	8	9	10	12	15	18	22
25°	5	6	7	8	9	11	14	17	23	28	36
22.5°	5	6	8	9	11	14	19	26	36	46	57
20°	6	7	8	10	14	19	27	40	53	69	82
17.5°	6	8	9	12	17	26	40	56	75	92	107
15°	7	9	11	15	23	36	53	75	96	118	142
12.5°	8	9	12	18	28	46	69	92	118	148	202
10°	8	10	14	22	36	57	82	107	142	202	295
7.5°	8	10	16	25	42	66	93	125	176	265	496
5°	9	11	17	28	47	74	101	139	208	360	788
2.5°	9	11	17	29	50	78	107	147	228	450	1070
0°	9	11	18	30	51	79	108	150	235	492	1175
-2.5°	9	11	17	29	50	78	107	147	228	450	1070
-5°	9	11	17	28	47	74	101	139	208	360	788
-7.5°	8	10	16	25	42	66	93	125	176	265	496
-10°	8	10	14	22	36	57	82	107	142	202	295
-12.5°	8	9	12	18	28	46	69	92	118	148	202
-15°	7	9	11	15	23	36	53	75	96	118	142
-17.5°	6	8	9	12	17	26	40	56	75	92	107
-20°	6	7	8	10	14	19	27	40	53	69	82



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	5	6	8	9	11	14	19	26	36	46	57
-25°	5	6	7	8	9	11	14	17	23	28	36
-27.5°	5	5	6	7	8	9	10	12	15	18	22
-30°	5	5	5	6	7	8	8	9	11	12	14
-32.5°	4	5	5	5	6	6	7	8	9	9	10
-35°	4	4	5	5	5	5	6	6	7	8	8
-37.5°	4	4	4	5	5	5	5	5	6	6	6
-40°	4	4	4	4	4	5	5	5	5	5	5
-42.5°	4	4	4	4	4	4	4	5	5	5	5
-45°	3	4	4	4	4	4	4	4	4	4	5
-47.5°	3	3	3	4	4	4	4	4	4	4	4
-50°	2	3	3	3	3	4	4	4	4	4	4
-52.5°	2	2	2	2	3	3	3	3	4	4	4
-55°	2	2	2	2	2	2	2	3	3	3	3
-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	2
-65°	2	2	2	2	2	2	2	2	2	2	2
-67.5°	1	1	1	2	2	2	2	2	2	2	2
-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°	0	0	0	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	1	1	1	1
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°	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°	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°	4	4	4	4	4	4	4	4	4	4	4
45°	5	5	5	5	5	5	5	5	4	4	4
42.5°	5	5	5	5	5	5	5	5	5	5	5
40°	5	6	6	6	6	6	5	5	5	5	5
37.5°	7	7	7	7	7	7	7	6	6	6	5
35°	8	9	9	9	9	9	8	8	8	7	6
32.5°	10	11	11	11	11	11	10	10	9	9	8
30°	16	17	17	18	17	17	16	14	12	11	9
27.5°	25	28	29	30	29	28	25	22	18	15	12
25°	42	47	50	51	50	47	42	36	28	23	17
22.5°	66	74	78	79	78	74	66	57	46	36	26
20°	93	101	107	108	107	101	93	82	69	53	40
17.5°	125	139	147	150	147	139	125	107	92	75	56
15°	176	208	228	235	228	208	176	142	118	96	75
12.5°	265	360	450	492	450	360	265	202	148	118	92
10°	496	788	1070	1175	1070	788	496	295	202	142	107
7.5°	971	1577	2055	2231	2055	1577	971	496	265	176	125
5°	1577	2421	3048	3297	3048	2421	1577	788	360	208	139
2.5°	2055	3048	3912	4300	3912	3048	2055	1070	450	228	147
0°	2231	3297	4300	4793	4300	3297	2231	1175	492	235	150
-2.5°	2055	3048	3912	4300	3912	3048	2055	1070	450	228	147
-5°	1577	2421	3048	3297	3048	2421	1577	788	360	208	139
-7.5°	971	1577	2055	2231	2055	1577	971	496	265	176	125
-10°	496	788	1070	1175	1070	788	496	295	202	142	107
-12.5°	265	360	450	492	450	360	265	202	148	118	92
-15°	176	208	228	235	228	208	176	142	118	96	75
-17.5°	125	139	147	150	147	139	125	107	92	75	56
-20°	93	101	107	108	107	101	93	82	69	53	40



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	66	74	78	79	78	74	66	57	46	36	26
-25°	42	47	50	51	50	47	42	36	28	23	17
-27.5°	25	28	29	30	29	28	25	22	18	15	12
-30°	16	17	17	18	17	17	16	14	12	11	9
-32.5°	10	11	11	11	11	11	10	10	9	9	8
-35°	8	9	9	9	9	9	8	8	8	7	6
-37.5°	7	7	7	7	7	7	7	6	6	6	5
-40°	5	6	6	6	6	6	5	5	5	5	5
-42.5°	5	5	5	5	5	5	5	5	5	5	5
-45°	5	5	5	5	5	5	5	5	4	4	4
-47.5°	4	4	4	4	4	4	4	4	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°	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	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	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	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	1	1	1	1	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°	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	1	1	1	1	1	1	1
65°	2	2	2	2	2	2	2	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	2	2	2	2	2	2	2	2
50°	4	4	3	3	3	3	2	2	2	2	2
47.5°	4	4	4	4	3	3	3	2	2	2	2
45°	4	4	4	4	4	4	3	3	2	2	2
42.5°	4	4	4	4	4	4	4	3	3	3	2
40°	5	5	4	4	4	4	4	4	3	3	2
37.5°	5	5	5	5	4	4	4	4	4	3	3
35°	6	5	5	5	5	4	4	4	4	4	3
32.5°	7	6	6	5	5	5	4	4	4	4	4
30°	8	8	7	6	5	5	5	4	4	4	4
27.5°	10	9	8	7	6	5	5	5	4	4	4
25°	14	11	9	8	7	6	5	5	4	4	4
22.5°	19	14	11	9	8	6	5	5	5	4	4
20°	27	19	14	10	8	7	6	5	5	4	4
17.5°	40	26	17	12	9	8	6	5	5	5	4
15°	53	36	23	15	11	9	7	6	5	5	4
12.5°	69	46	28	18	12	9	8	6	5	5	4
10°	82	57	36	22	14	10	8	6	5	5	5
7.5°	93	66	42	25	16	10	8	7	5	5	5
5°	101	74	47	28	17	11	9	7	6	5	5
2.5°	107	78	50	29	17	11	9	7	6	5	5
0°	108	79	51	30	18	11	9	7	6	5	5
-2.5°	107	78	50	29	17	11	9	7	6	5	5
-5°	101	74	47	28	17	11	9	7	6	5	5
-7.5°	93	66	42	25	16	10	8	7	5	5	5
-10°	82	57	36	22	14	10	8	6	5	5	5
-12.5°	69	46	28	18	12	9	8	6	5	5	4
-15°	53	36	23	15	11	9	7	6	5	5	4
-17.5°	40	26	17	12	9	8	6	5	5	5	4
-20°	27	19	14	10	8	7	6	5	5	4	4



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	19	14	11	9	8	6	5	5	5	4	4
-25°	14	11	9	8	7	6	5	5	4	4	4
-27.5°	10	9	8	7	6	5	5	5	4	4	4
-30°	8	8	7	6	5	5	5	4	4	4	4
-32.5°	7	6	6	5	5	5	4	4	4	4	4
-35°	6	5	5	5	5	4	4	4	4	4	3
-37.5°	5	5	5	5	4	4	4	4	4	3	3
-40°	5	5	4	4	4	4	4	4	3	3	2
-42.5°	4	4	4	4	4	4	4	3	3	3	2
-45°	4	4	4	4	4	4	3	3	2	2	2
-47.5°	4	4	4	4	3	3	3	2	2	2	2
-50°	4	4	3	3	3	3	2	2	2	2	2
-52.5°	3	3	3	2	2	2	2	2	2	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°	2	2	2	2	2	2	2	1	1	1	1
-67.5°	2	2	2	2	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°	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	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	1	0	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	0	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	1	1	1	1	1	1	1	1	1
55°	2	2	2	1	1	1	1	1	1	1	1
52.5°	2	2	2	2	1	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	1	1	1	1	1
42.5°	2	2	2	2	2	2	2	1	1	1	1
40°	2	2	2	2	2	2	2	1	1	1	1
37.5°	2	2	2	2	2	2	2	1	1	1	1
35°	3	2	2	2	2	2	2	2	1	1	1
32.5°	3	3	2	2	2	2	2	2	1	1	1
30°	3	3	2	2	2	2	2	2	1	1	1
27.5°	4	3	2	2	2	2	2	2	2	1	1
25°	4	3	3	2	2	2	2	2	2	1	1
22.5°	4	4	3	2	2	2	2	2	2	1	1
20°	4	4	3	2	2	2	2	2	2	1	1
17.5°	4	4	3	3	2	2	2	2	2	1	1
15°	4	4	4	3	2	2	2	2	2	1	1
12.5°	4	4	4	3	2	2	2	2	2	1	1
10°	4	4	4	3	2	2	2	2	2	1	1
7.5°	4	4	4	3	2	2	2	2	2	2	1
5°	4	4	4	3	2	2	2	2	2	2	1
2.5°	4	4	4	3	2	2	2	2	2	2	1
0°	4	4	4	3	2	2	2	2	2	2	1
-2.5°	4	4	4	3	2	2	2	2	2	2	1
-5°	4	4	4	3	2	2	2	2	2	2	1
-7.5°	4	4	4	3	2	2	2	2	2	2	1
-10°	4	4	4	3	2	2	2	2	2	1	1
-12.5°	4	4	4	3	2	2	2	2	2	1	1
-15°	4	4	4	3	2	2	2	2	2	1	1
-17.5°	4	4	3	3	2	2	2	2	2	1	1
-20°	4	4	3	2	2	2	2	2	2	1	1



REPORT NUMBER: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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	2	2	2	2	2	2	1	1
-25°	4	3	3	2	2	2	2	2	2	1	1
-27.5°	4	3	2	2	2	2	2	2	2	1	1
-30°	3	3	2	2	2	2	2	2	1	1	1
-32.5°	3	3	2	2	2	2	2	2	1	1	1
-35°	3	2	2	2	2	2	2	2	1	1	1
-37.5°	2	2	2	2	2	2	2	1	1	1	1
-40°	2	2	2	2	2	2	2	1	1	1	1
-42.5°	2	2	2	2	2	2	2	1	1	1	1
-45°	2	2	2	2	2	2	1	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	1	1	1	1	1	1	1
-55°	2	2	2	1	1	1	1	1	1	1	1
-57.5°	2	2	1	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	0	0	0	0
-77.5°	1	1	1	1	1	0	0	0	0	0	0
-80°	1	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-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°	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	0	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	0	0	0	0
30°	1	1	1	0	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: P220306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-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	0	0	0	0
-32.5°	1	1	1	0	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	0	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°	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)