

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: P220378 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220378 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	813.1 lumens	Max Intensity:	4446.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	81.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	414.2 lumens	Field Lumens:	637 lumens
Beam Efficiency:	50.9%	Field Efficiency:	78.3%

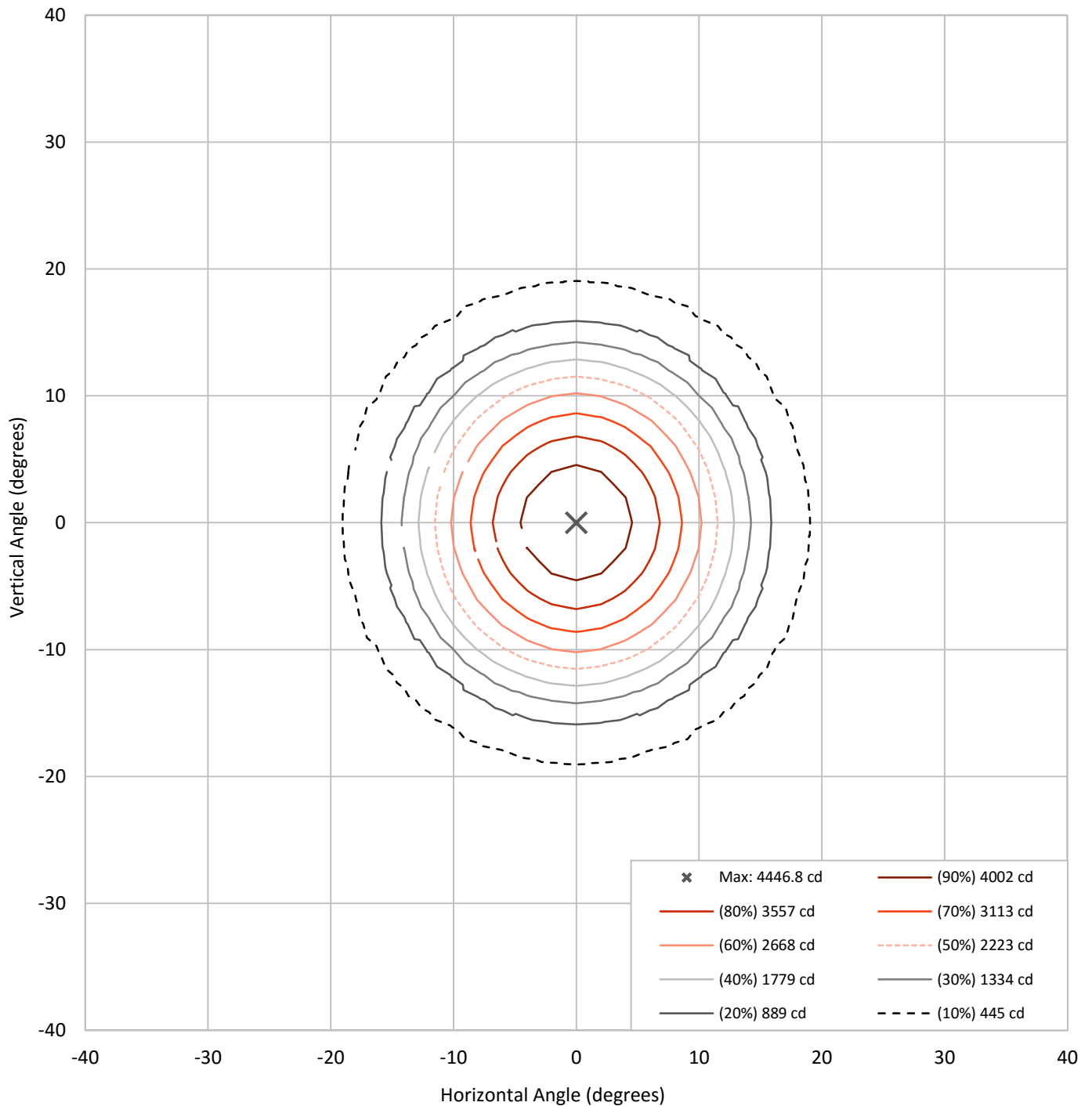
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

Iso-Candela Plot





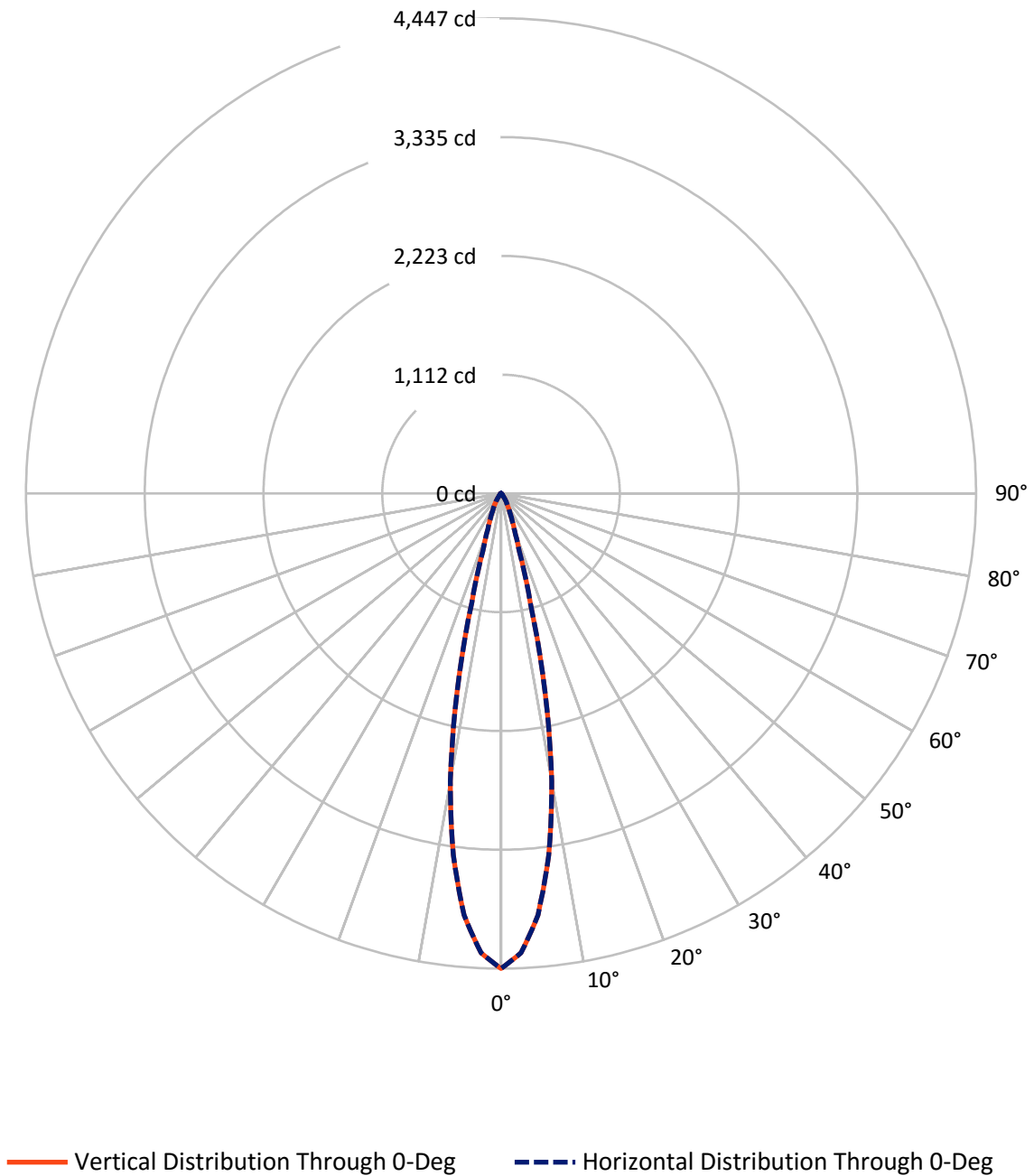
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Lumen Table

90	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										
80	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										
70	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
60		0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0				
50	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0			
40		0.1	0.1	0.1	0.3	0.5	1.1	1.7	1.7	1.1	0.5	0.3	0.1	0.1	0.1				
30	0.1	0.1	0.1	0.2	0.5	1.7	3.9	6.1	6.1	3.9	1.7	0.5	0.2	0.1	0.1	0.1			
20		0.1	0.1	0.2	0.9	3.7	10.8	31.0	31.0	10.8	3.7	0.9	0.2	0.1	0.1				
10	0.1	0.1	0.1	0.3	1.4	5.6	30.2	98.6	98.6	30.2	5.6	1.4	0.3	0.1	0.1	0.1			
0		0.1	0.1	0.3	1.4	5.6	30.2	98.6	98.6	30.2	5.6	1.4	0.3	0.1	0.1				
-10	0.1	0.1	0.1	0.2	0.9	3.7	10.8	31.0	31.0	10.8	3.7	0.9	0.2	0.1	0.1	0.1			
-20		0.1	0.1	0.2	0.5	1.7	3.9	6.1	6.1	3.9	1.7	0.5	0.2	0.1	0.1				
-30	0.0	0.1	0.1	0.1	0.3	0.5	1.1	1.7	1.7	1.1	0.5	0.3	0.1	0.1	0.1	0.0			
-40		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1				
-50	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0			
-60		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
-70	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
-80		0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0				
-90	0.0	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0										

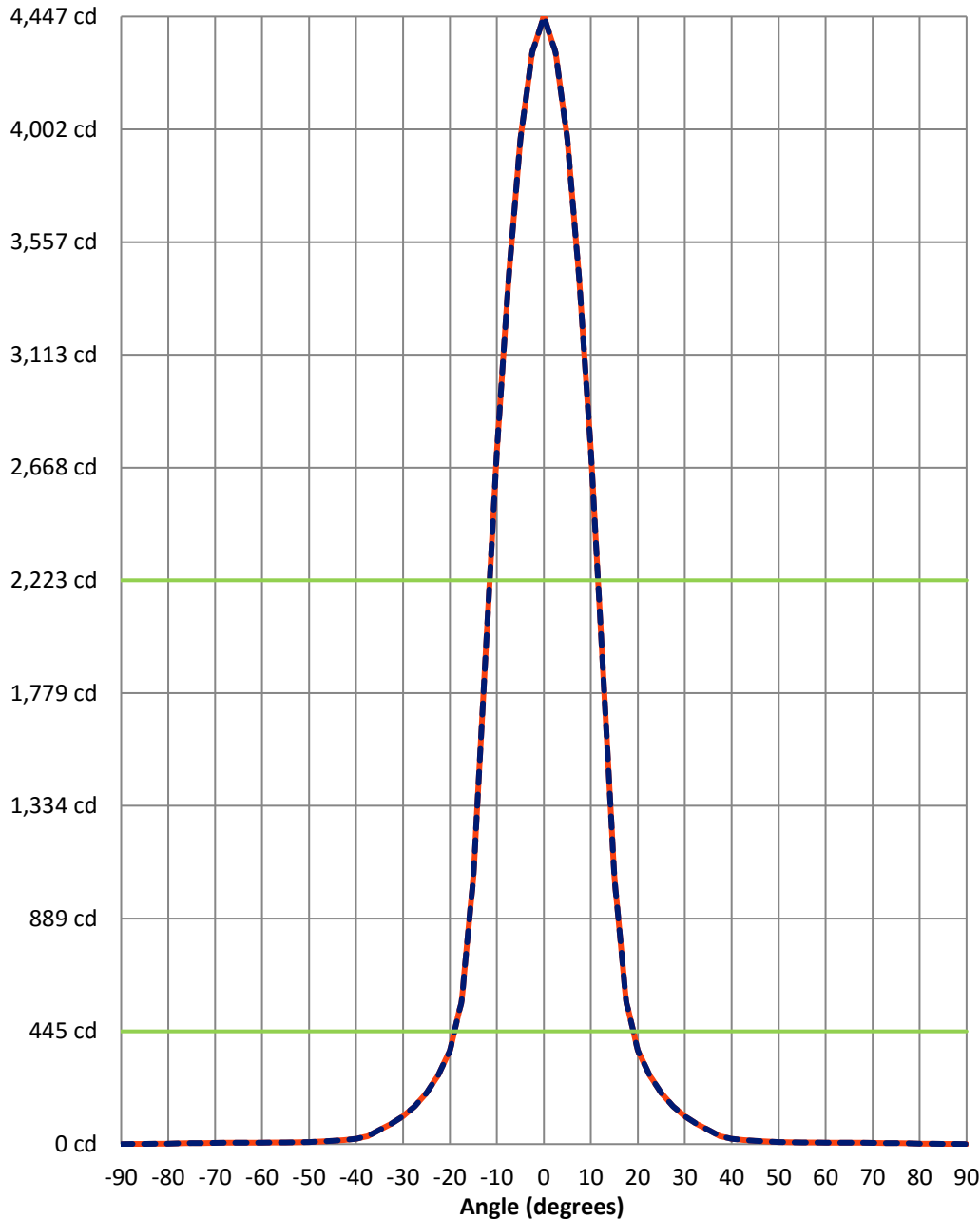
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 23.1°
 Lumens: 414.2
 Efficiency: 50.9%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 637
 Efficiency: 78.3%

Spill:
 Lumens: 176.1
 Efficiency: 21.7%

— 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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.2	0.3	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.9
75°	0.0	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.8	1.0	1.2
72.5°	0.0	0.2	0.5	0.7	0.8	0.8	0.8	0.9	1.1	1.3	1.5
70°	0.0	0.3	0.5	0.8	0.8	0.8	0.8	1.1	1.3	1.6	1.6
67.5°	0.0	0.3	0.6	0.8	0.8	0.8	1.0	1.3	1.6	1.6	1.6
65°	0.0	0.3	0.7	0.8	0.8	0.9	1.2	1.5	1.6	1.6	1.8
62.5°	0.0	0.4	0.7	0.8	0.8	1.0	1.4	1.6	1.6	1.7	2.4
60°	0.0	0.4	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.3	3.0
57.5°	0.0	0.4	0.8	0.8	0.9	1.3	1.6	1.6	2.0	2.8	3.4
55°	0.0	0.5	0.8	0.8	1.0	1.5	1.6	1.6	2.4	3.3	3.7
52.5°	0.0	0.5	0.8	0.8	1.1	1.6	1.6	2.0	2.9	3.5	4.0
50°	0.0	0.5	0.8	0.8	1.3	1.6	1.6	2.3	3.3	3.8	4.0
47.5°	0.0	0.5	0.8	0.8	1.4	1.6	1.6	2.7	3.5	4.0	4.0
45°	0.0	0.6	0.8	0.9	1.5	1.6	1.9	3.1	3.7	4.0	4.0
42.5°	0.0	0.6	0.8	1.0	1.6	1.6	2.2	3.3	3.9	4.0	4.2
40°	0.0	0.6	0.8	1.0	1.6	1.6	2.5	3.5	4.0	4.0	4.4
37.5°	0.0	0.6	0.8	1.1	1.6	1.6	2.8	3.6	4.0	4.1	4.7
35°	0.0	0.7	0.8	1.2	1.6	1.7	3.0	3.8	4.0	4.2	4.9
32.5°	0.0	0.7	0.8	1.2	1.6	1.9	3.2	3.9	4.0	4.4	5.1
30°	0.0	0.7	0.8	1.3	1.6	2.1	3.3	4.0	4.0	4.6	5.3
27.5°	0.0	0.7	0.8	1.3	1.6	2.3	3.4	4.0	4.1	4.7	5.4
25°	0.0	0.7	0.8	1.4	1.6	2.4	3.5	4.0	4.2	4.9	5.6
22.5°	0.0	0.7	0.8	1.4	1.6	2.6	3.6	4.0	4.3	5.0	5.6
20°	0.0	0.8	0.8	1.5	1.6	2.7	3.7	4.0	4.4	5.1	5.6
17.5°	0.0	0.8	0.8	1.5	1.6	2.8	3.8	4.0	4.5	5.2	5.6
15°	0.0	0.8	0.8	1.5	1.6	2.9	3.8	4.0	4.6	5.3	5.6
12.5°	0.0	0.8	0.8	1.5	1.6	3.0	3.9	4.0	4.6	5.4	5.6
10°	0.0	0.8	0.8	1.6	1.6	3.1	3.9	4.0	4.7	5.5	5.6
7.5°	0.0	0.8	0.8	1.6	1.6	3.1	4.0	4.0	4.7	5.5	5.6
5°	0.0	0.8	0.8	1.6	1.6	3.2	4.0	4.0	4.8	5.6	5.6
2.5°	0.0	0.8	0.8	1.6	1.6	3.2	4.0	4.0	4.8	5.6	5.6
0°	0.0	0.8	0.8	1.6	1.6	3.2	4.0	4.0	4.8	5.6	5.6
-2.5°	0.0	0.8	0.8	1.6	1.6	3.2	4.0	4.0	4.8	5.6	5.6
-5°	0.0	0.8	0.8	1.6	1.6	3.2	4.0	4.0	4.8	5.6	5.6
-7.5°	0.0	0.8	0.8	1.6	1.6	3.1	4.0	4.0	4.7	5.5	5.6
-10°	0.0	0.8	0.8	1.6	1.6	3.1	3.9	4.0	4.7	5.5	5.6
-12.5°	0.0	0.8	0.8	1.5	1.6	3.0	3.9	4.0	4.6	5.4	5.6
-15°	0.0	0.8	0.8	1.5	1.6	2.9	3.8	4.0	4.6	5.3	5.6
-17.5°	0.0	0.8	0.8	1.5	1.6	2.8	3.8	4.0	4.5	5.2	5.6
-20°	0.0	0.8	0.8	1.5	1.6	2.7	3.7	4.0	4.4	5.1	5.6



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-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	0.7	0.8	1.4	1.6	2.6	3.6	4.0	4.3	5.0	5.6
-25°	0.0	0.7	0.8	1.4	1.6	2.4	3.5	4.0	4.2	4.9	5.6
-27.5°	0.0	0.7	0.8	1.3	1.6	2.3	3.4	4.0	4.1	4.7	5.4
-30°	0.0	0.7	0.8	1.3	1.6	2.1	3.3	4.0	4.0	4.6	5.3
-32.5°	0.0	0.7	0.8	1.2	1.6	1.9	3.2	3.9	4.0	4.4	5.1
-35°	0.0	0.7	0.8	1.2	1.6	1.7	3.0	3.8	4.0	4.2	4.9
-37.5°	0.0	0.6	0.8	1.1	1.6	1.6	2.8	3.6	4.0	4.1	4.7
-40°	0.0	0.6	0.8	1.0	1.6	1.6	2.5	3.5	4.0	4.0	4.4
-42.5°	0.0	0.6	0.8	1.0	1.6	1.6	2.2	3.3	3.9	4.0	4.2
-45°	0.0	0.6	0.8	0.9	1.5	1.6	1.9	3.1	3.7	4.0	4.0
-47.5°	0.0	0.5	0.8	0.8	1.4	1.6	1.6	2.7	3.5	4.0	4.0
-50°	0.0	0.5	0.8	0.8	1.3	1.6	1.6	2.3	3.3	3.8	4.0
-52.5°	0.0	0.5	0.8	0.8	1.1	1.6	1.6	2.0	2.9	3.5	4.0
-55°	0.0	0.5	0.8	0.8	1.0	1.5	1.6	1.6	2.4	3.3	3.7
-57.5°	0.0	0.4	0.8	0.8	0.9	1.3	1.6	1.6	2.0	2.8	3.4
-60°	0.0	0.4	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.3	3.0
-62.5°	0.0	0.4	0.7	0.8	0.8	1.0	1.4	1.6	1.6	1.7	2.4
-65°	0.0	0.3	0.7	0.8	0.8	0.9	1.2	1.5	1.6	1.6	1.8
-67.5°	0.0	0.3	0.6	0.8	0.8	0.8	1.0	1.3	1.6	1.6	1.6
-70°	0.0	0.3	0.5	0.8	0.8	0.8	0.8	1.1	1.3	1.6	1.6
-72.5°	0.0	0.2	0.5	0.7	0.8	0.8	0.8	0.9	1.1	1.3	1.5
-75°	0.0	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.8	1.0	1.2
-77.5°	0.0	0.2	0.3	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.9
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8
-85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
85°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.1
80°	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.6	1.6
77.5°	1.0	1.2	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.9	2.2	2.5	2.8
72.5°	1.6	1.6	1.6	1.6	2.0	2.3	2.7	3.1	3.3	3.5	3.6
70°	1.6	1.6	2.0	2.4	2.9	3.3	3.5	3.7	3.9	4.0	4.0
67.5°	1.7	2.3	2.8	3.3	3.5	3.8	4.0	4.0	4.0	4.0	4.1
65°	2.4	3.0	3.4	3.7	4.0	4.0	4.0	4.0	4.2	4.4	4.7
62.5°	3.1	3.5	3.8	4.0	4.0	4.0	4.2	4.5	4.8	5.0	5.3
60°	3.5	3.8	4.0	4.0	4.1	4.4	4.7	5.0	5.3	5.6	5.6
57.5°	3.8	4.0	4.0	4.1	4.5	4.9	5.2	5.5	5.6	5.6	5.6
55°	4.0	4.0	4.1	4.5	4.9	5.3	5.6	5.6	5.6	5.6	5.6
52.5°	4.0	4.1	4.5	4.9	5.4	5.6	5.6	5.6	5.6	5.6	5.6
50°	4.0	4.4	4.9	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.8
47.5°	4.2	4.7	5.2	5.6	5.6	5.6	5.6	5.6	5.6	6.0	6.4
45°	4.5	5.0	5.5	5.6	5.6	5.6	5.6	5.6	6.1	6.4	6.4
42.5°	4.8	5.3	5.6	5.6	5.6	5.6	5.6	6.1	6.4	6.4	6.7
40°	5.0	5.6	5.6	5.6	5.6	5.6	6.0	6.4	6.4	6.7	7.2
37.5°	5.3	5.6	5.6	5.6	5.6	5.8	6.4	6.4	6.7	7.2	7.7
35°	5.5	5.6	5.6	5.6	5.6	6.2	6.4	6.5	7.1	7.6	8.5
32.5°	5.6	5.6	5.6	5.6	5.9	6.4	6.4	6.9	7.5	8.2	9.9
30°	5.6	5.6	5.6	5.6	6.2	6.4	6.7	7.3	7.9	9.5	11.3
27.5°	5.6	5.6	5.6	5.8	6.4	6.4	7.0	7.6	8.8	10.7	12.5
25°	5.6	5.6	5.6	6.0	6.4	6.6	7.3	8.0	9.9	11.8	14.0
22.5°	5.6	5.6	5.6	6.2	6.4	6.9	7.6	8.8	10.8	12.9	15.5
20°	5.6	5.6	5.7	6.4	6.4	7.1	7.8	9.6	11.7	14.1	17.4
17.5°	5.6	5.6	5.9	6.4	6.6	7.3	8.1	10.3	12.5	15.3	19.3
15°	5.6	5.6	6.0	6.4	6.7	7.5	8.7	11.0	13.3	16.4	21.0
12.5°	5.6	5.6	6.1	6.4	6.9	7.6	9.2	11.5	14.1	17.8	24.1
10°	5.6	5.6	6.2	6.4	7.0	7.8	9.6	12.0	14.8	18.9	26.6
7.5°	5.6	5.6	6.3	6.4	7.1	7.9	10.0	12.3	15.3	19.8	28.7
5°	5.6	5.6	6.4	6.4	7.1	7.9	10.2	12.6	15.7	20.4	30.1
2.5°	5.6	5.6	6.4	6.4	7.2	8.0	10.4	12.7	15.9	20.8	31.0
0°	5.6	5.6	6.4	6.4	7.2	8.0	10.4	12.8	16.0	20.9	31.3
-2.5°	5.6	5.6	6.4	6.4	7.2	8.0	10.4	12.7	15.9	20.8	31.0
-5°	5.6	5.6	6.4	6.4	7.1	7.9	10.2	12.6	15.7	20.4	30.1
-7.5°	5.6	5.6	6.3	6.4	7.1	7.9	10.0	12.3	15.3	19.8	28.7
-10°	5.6	5.6	6.2	6.4	7.0	7.8	9.6	12.0	14.8	18.9	26.6
-12.5°	5.6	5.6	6.1	6.4	6.9	7.6	9.2	11.5	14.1	17.8	24.1
-15°	5.6	5.6	6.0	6.4	6.7	7.5	8.7	11.0	13.3	16.4	21.0
-17.5°	5.6	5.6	5.9	6.4	6.6	7.3	8.1	10.3	12.5	15.3	19.3
-20°	5.6	5.6	5.7	6.4	6.4	7.1	7.8	9.6	11.7	14.1	17.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	5.6	5.6	5.6	6.2	6.4	6.9	7.6	8.8	10.8	12.9	15.5
-25°	5.6	5.6	5.6	6.0	6.4	6.6	7.3	8.0	9.9	11.8	14.0
-27.5°	5.6	5.6	5.6	5.8	6.4	6.4	7.0	7.6	8.8	10.7	12.5
-30°	5.6	5.6	5.6	5.6	6.2	6.4	6.7	7.3	7.9	9.5	11.3
-32.5°	5.6	5.6	5.6	5.6	5.9	6.4	6.4	6.9	7.5	8.2	9.9
-35°	5.5	5.6	5.6	5.6	5.6	6.2	6.4	6.5	7.1	7.6	8.5
-37.5°	5.3	5.6	5.6	5.6	5.6	5.8	6.4	6.4	6.7	7.2	7.7
-40°	5.0	5.6	5.6	5.6	5.6	5.6	6.0	6.4	6.4	6.7	7.2
-42.5°	4.8	5.3	5.6	5.6	5.6	5.6	5.6	6.1	6.4	6.4	6.7
-45°	4.5	5.0	5.5	5.6	5.6	5.6	5.6	5.6	6.1	6.4	6.4
-47.5°	4.2	4.7	5.2	5.6	5.6	5.6	5.6	5.6	5.6	6.0	6.4
-50°	4.0	4.4	4.9	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.8
-52.5°	4.0	4.1	4.5	4.9	5.4	5.6	5.6	5.6	5.6	5.6	5.6
-55°	4.0	4.0	4.1	4.5	4.9	5.3	5.6	5.6	5.6	5.6	5.6
-57.5°	3.8	4.0	4.0	4.1	4.5	4.9	5.2	5.5	5.6	5.6	5.6
-60°	3.5	3.8	4.0	4.0	4.1	4.4	4.7	5.0	5.3	5.6	5.6
-62.5°	3.1	3.5	3.8	4.0	4.0	4.0	4.2	4.5	4.8	5.0	5.3
-65°	2.4	3.0	3.4	3.7	4.0	4.0	4.0	4.0	4.2	4.4	4.7
-67.5°	1.7	2.3	2.8	3.3	3.5	3.8	4.0	4.0	4.0	4.0	4.1
-70°	1.6	1.6	2.0	2.4	2.9	3.3	3.5	3.7	3.9	4.0	4.0
-72.5°	1.6	1.6	1.6	1.6	2.0	2.3	2.7	3.1	3.3	3.5	3.6
-75°	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.9	2.2	2.5	2.8
-77.5°	1.0	1.2	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
-80°	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.6	1.6
-82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.1
-85°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.1
75°	3.0	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9
72.5°	3.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7
67.5°	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5
65°	4.9	5.1	5.3	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.7	5.9	6.0	6.1	6.2
55°	5.6	5.6	5.6	5.8	6.0	6.2	6.4	6.4	6.4	6.4	6.4
52.5°	5.6	5.9	6.2	6.4	6.4	6.4	6.4	6.6	6.7	6.9	7.0
50°	6.2	6.4	6.4	6.4	6.6	6.9	7.1	7.3	7.5	7.6	7.8
47.5°	6.4	6.4	6.7	7.0	7.3	7.6	7.8	8.1	8.7	9.2	9.6
45°	6.5	6.9	7.3	7.6	8.0	8.8	9.6	10.3	11.0	11.5	12.0
42.5°	7.1	7.5	7.9	8.8	9.9	10.8	11.7	12.5	13.3	14.1	14.8
40°	7.6	8.2	9.5	10.7	11.8	12.9	14.1	15.3	16.4	17.8	18.9
37.5°	8.5	9.9	11.3	12.5	14.0	15.5	17.4	19.3	21.0	24.1	26.6
35°	10.1	11.6	13.0	14.9	16.9	19.3	22.3	26.6	30.5	37.3	44.0
32.5°	11.6	13.2	15.3	17.8	20.6	25.8	31.0	41.7	51.7	60.3	67.3
30°	13.0	15.3	18.1	21.7	28.0	37.7	50.9	62.8	73.2	82.9	92.4
27.5°	14.9	17.8	21.7	28.7	41.3	56.5	70.2	83.5	97.5	109.8	122.5
25°	16.9	20.6	28.0	41.3	58.4	74.0	90.8	107.6	125.9	144.5	162.0
22.5°	19.3	25.8	37.7	56.5	74.0	93.3	113.5	136.8	161.6	187.9	215.1
20°	22.3	31.0	50.9	70.2	90.8	113.5	140.6	171.4	206.6	245.2	281.1
17.5°	26.6	41.7	62.8	83.5	107.6	136.8	171.4	214.0	260.8	315.4	366.9
15°	30.5	51.7	73.2	97.5	125.9	161.6	206.6	260.8	327.2	401.7	510.7
12.5°	37.3	60.3	82.9	109.8	144.5	187.9	245.2	315.4	401.7	553.6	819.3
10°	44.0	67.3	92.4	122.5	162.0	215.1	281.1	366.9	510.7	819.3	1337.4
7.5°	49.3	72.9	99.9	133.6	177.5	239.4	318.8	426.7	675.5	1199.8	1909.1
5°	53.1	76.9	105.4	141.9	190.6	257.3	346.8	492.0	860.4	1564.4	2363.9
2.5°	55.4	79.4	108.8	147.4	198.7	268.3	364.1	545.8	1007.9	1813.6	2639.2
0°	56.2	80.2	109.9	149.3	201.4	272.0	369.9	566.5	1058.3	1900.9	2734.5
-2.5°	55.4	79.4	108.8	147.4	198.7	268.3	364.1	545.8	1007.9	1813.6	2639.2
-5°	53.1	76.9	105.4	141.9	190.6	257.3	346.8	492.0	860.4	1564.4	2363.9
-7.5°	49.3	72.9	99.9	133.6	177.5	239.4	318.8	426.7	675.5	1199.8	1909.1
-10°	44.0	67.3	92.4	122.5	162.0	215.1	281.1	366.9	510.7	819.3	1337.4
-12.5°	37.3	60.3	82.9	109.8	144.5	187.9	245.2	315.4	401.7	553.6	819.3
-15°	30.5	51.7	73.2	97.5	125.9	161.6	206.6	260.8	327.2	401.7	510.7
-17.5°	26.6	41.7	62.8	83.5	107.6	136.8	171.4	214.0	260.8	315.4	366.9
-20°	22.3	31.0	50.9	70.2	90.8	113.5	140.6	171.4	206.6	245.2	281.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	19.3	25.8	37.7	56.5	74.0	93.3	113.5	136.8	161.6	187.9	215.1
-25°	16.9	20.6	28.0	41.3	58.4	74.0	90.8	107.6	125.9	144.5	162.0
-27.5°	14.9	17.8	21.7	28.7	41.3	56.5	70.2	83.5	97.5	109.8	122.5
-30°	13.0	15.3	18.1	21.7	28.0	37.7	50.9	62.8	73.2	82.9	92.4
-32.5°	11.6	13.2	15.3	17.8	20.6	25.8	31.0	41.7	51.7	60.3	67.3
-35°	10.1	11.6	13.0	14.9	16.9	19.3	22.3	26.6	30.5	37.3	44.0
-37.5°	8.5	9.9	11.3	12.5	14.0	15.5	17.4	19.3	21.0	24.1	26.6
-40°	7.6	8.2	9.5	10.7	11.8	12.9	14.1	15.3	16.4	17.8	18.9
-42.5°	7.1	7.5	7.9	8.8	9.9	10.8	11.7	12.5	13.3	14.1	14.8
-45°	6.5	6.9	7.3	7.6	8.0	8.8	9.6	10.3	11.0	11.5	12.0
-47.5°	6.4	6.4	6.7	7.0	7.3	7.6	7.8	8.1	8.7	9.2	9.6
-50°	6.2	6.4	6.4	6.4	6.6	6.9	7.1	7.3	7.5	7.6	7.8
-52.5°	5.6	5.9	6.2	6.4	6.4	6.4	6.4	6.6	6.7	6.9	7.0
-55°	5.6	5.6	5.6	5.8	6.0	6.2	6.4	6.4	6.4	6.4	6.4
-57.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.7	5.9	6.0	6.1	6.2
-60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-62.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-65°	4.9	5.1	5.3	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-67.5°	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5
-70°	4.0	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7
-72.5°	3.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
-75°	3.0	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9
-77.5°	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.1
-80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
-82.5°	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.6
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0	2.9	2.8
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.6	4.6	4.5
67.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3	5.2
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.2	6.1	6.0	5.9
55°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
52.5°	7.1	7.1	7.2	7.2	7.2	7.1	7.1	7.0	6.9	6.7	6.6
50°	7.9	7.9	8.0	8.0	8.0	7.9	7.9	7.8	7.6	7.5	7.3
47.5°	10.0	10.2	10.4	10.4	10.4	10.2	10.0	9.6	9.2	8.7	8.1
45°	12.3	12.6	12.7	12.8	12.7	12.6	12.3	12.0	11.5	11.0	10.3
42.5°	15.3	15.7	15.9	16.0	15.9	15.7	15.3	14.8	14.1	13.3	12.5
40°	19.8	20.4	20.8	20.9	20.8	20.4	19.8	18.9	17.8	16.4	15.3
37.5°	28.7	30.1	31.0	31.3	31.0	30.1	28.7	26.6	24.1	21.0	19.3
35°	49.3	53.1	55.4	56.2	55.4	53.1	49.3	44.0	37.3	30.5	26.6
32.5°	72.9	76.9	79.4	80.2	79.4	76.9	72.9	67.3	60.3	51.7	41.7
30°	99.9	105.4	108.8	109.9	108.8	105.4	99.9	92.4	82.9	73.2	62.8
27.5°	133.6	141.9	147.4	149.3	147.4	141.9	133.6	122.5	109.8	97.5	83.5
25°	177.5	190.6	198.7	201.4	198.7	190.6	177.5	162.0	144.5	125.9	107.6
22.5°	239.4	257.3	268.3	272.0	268.3	257.3	239.4	215.1	187.9	161.6	136.8
20°	318.8	346.8	364.1	369.9	364.1	346.8	318.8	281.1	245.2	206.6	171.4
17.5°	426.7	492.0	545.8	566.5	545.8	492.0	426.7	366.9	315.4	260.8	214.0
15°	675.5	860.4	1007.9	1058.3	1007.9	860.4	675.5	510.7	401.7	327.2	260.8
12.5°	1199.8	1564.4	1813.6	1900.9	1813.6	1564.4	1199.8	819.3	553.6	401.7	315.4
10°	1909.1	2363.9	2639.2	2734.5	2639.2	2363.9	1909.1	1337.4	819.3	510.7	366.9
7.5°	2549.4	3020.1	3314.8	3416.1	3314.8	3020.1	2549.4	1909.1	1199.8	675.5	426.7
5°	3020.1	3525.0	3844.9	3962.1	3844.9	3525.0	3020.1	2363.9	1564.4	860.4	492.0
2.5°	3314.8	3844.9	4188.3	4303.6	4188.3	3844.9	3314.8	2639.2	1813.6	1007.9	545.8
0°	3416.1	3962.1	4303.6	4446.8	4303.6	3962.1	3416.1	2734.5	1900.9	1058.3	566.5
-2.5°	3314.8	3844.9	4188.3	4303.6	4188.3	3844.9	3314.8	2639.2	1813.6	1007.9	545.8
-5°	3020.1	3525.0	3844.9	3962.1	3844.9	3525.0	3020.1	2363.9	1564.4	860.4	492.0
-7.5°	2549.4	3020.1	3314.8	3416.1	3314.8	3020.1	2549.4	1909.1	1199.8	675.5	426.7
-10°	1909.1	2363.9	2639.2	2734.5	2639.2	2363.9	1909.1	1337.4	819.3	510.7	366.9
-12.5°	1199.8	1564.4	1813.6	1900.9	1813.6	1564.4	1199.8	819.3	553.6	401.7	315.4
-15°	675.5	860.4	1007.9	1058.3	1007.9	860.4	675.5	510.7	401.7	327.2	260.8
-17.5°	426.7	492.0	545.8	566.5	545.8	492.0	426.7	366.9	315.4	260.8	214.0
-20°	318.8	346.8	364.1	369.9	364.1	346.8	318.8	281.1	245.2	206.6	171.4



REPORT NUMBER: P220378 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-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°	239.4	257.3	268.3	272.0	268.3	257.3	239.4	215.1	187.9	161.6	136.8
-25°	177.5	190.6	198.7	201.4	198.7	190.6	177.5	162.0	144.5	125.9	107.6
-27.5°	133.6	141.9	147.4	149.3	147.4	141.9	133.6	122.5	109.8	97.5	83.5
-30°	99.9	105.4	108.8	109.9	108.8	105.4	99.9	92.4	82.9	73.2	62.8
-32.5°	72.9	76.9	79.4	80.2	79.4	76.9	72.9	67.3	60.3	51.7	41.7
-35°	49.3	53.1	55.4	56.2	55.4	53.1	49.3	44.0	37.3	30.5	26.6
-37.5°	28.7	30.1	31.0	31.3	31.0	30.1	28.7	26.6	24.1	21.0	19.3
-40°	19.8	20.4	20.8	20.9	20.8	20.4	19.8	18.9	17.8	16.4	15.3
-42.5°	15.3	15.7	15.9	16.0	15.9	15.7	15.3	14.8	14.1	13.3	12.5
-45°	12.3	12.6	12.7	12.8	12.7	12.6	12.3	12.0	11.5	11.0	10.3
-47.5°	10.0	10.2	10.4	10.4	10.4	10.2	10.0	9.6	9.2	8.7	8.1
-50°	7.9	7.9	8.0	8.0	8.0	7.9	7.9	7.8	7.6	7.5	7.3
-52.5°	7.1	7.1	7.2	7.2	7.2	7.1	7.1	7.0	6.9	6.7	6.6
-55°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
-57.5°	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.2	6.1	6.0	5.9
-60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-67.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3	5.2
-70°	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.6	4.6	4.5
-72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
-75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8
-77.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0	2.9	2.8
-80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
-82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.0	1.0	0.9
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
77.5°	2.7	2.6	2.4	2.3	2.1	1.9	1.7	1.6	1.6	1.6	1.6
75°	3.7	3.6	3.5	3.4	3.3	3.2	3.0	2.8	2.5	2.2	1.9
72.5°	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.6	3.5	3.3	3.1
70°	4.4	4.3	4.2	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7
67.5°	5.1	5.0	4.9	4.7	4.6	4.4	4.2	4.1	4.0	4.0	4.0
65°	5.6	5.6	5.6	5.4	5.3	5.1	4.9	4.7	4.4	4.2	4.0
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.3	5.0	4.8	4.5
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3	5.0
57.5°	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5
55°	6.4	6.2	6.0	5.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
52.5°	6.4	6.4	6.4	6.4	6.2	5.9	5.6	5.6	5.6	5.6	5.6
50°	7.1	6.9	6.6	6.4	6.4	6.4	6.2	5.8	5.6	5.6	5.6
47.5°	7.8	7.6	7.3	7.0	6.7	6.4	6.4	6.4	6.0	5.6	5.6
45°	9.6	8.8	8.0	7.6	7.3	6.9	6.5	6.4	6.4	6.1	5.6
42.5°	11.7	10.8	9.9	8.8	7.9	7.5	7.1	6.7	6.4	6.4	6.1
40°	14.1	12.9	11.8	10.7	9.5	8.2	7.6	7.2	6.7	6.4	6.4
37.5°	17.4	15.5	14.0	12.5	11.3	9.9	8.5	7.7	7.2	6.7	6.4
35°	22.3	19.3	16.9	14.9	13.0	11.6	10.1	8.5	7.6	7.1	6.5
32.5°	31.0	25.8	20.6	17.8	15.3	13.2	11.6	9.9	8.2	7.5	6.9
30°	50.9	37.7	28.0	21.7	18.1	15.3	13.0	11.3	9.5	7.9	7.3
27.5°	70.2	56.5	41.3	28.7	21.7	17.8	14.9	12.5	10.7	8.8	7.6
25°	90.8	74.0	58.4	41.3	28.0	20.6	16.9	14.0	11.8	9.9	8.0
22.5°	113.5	93.3	74.0	56.5	37.7	25.8	19.3	15.5	12.9	10.8	8.8
20°	140.6	113.5	90.8	70.2	50.9	31.0	22.3	17.4	14.1	11.7	9.6
17.5°	171.4	136.8	107.6	83.5	62.8	41.7	26.6	19.3	15.3	12.5	10.3
15°	206.6	161.6	125.9	97.5	73.2	51.7	30.5	21.0	16.4	13.3	11.0
12.5°	245.2	187.9	144.5	109.8	82.9	60.3	37.3	24.1	17.8	14.1	11.5
10°	281.1	215.1	162.0	122.5	92.4	67.3	44.0	26.6	18.9	14.8	12.0
7.5°	318.8	239.4	177.5	133.6	99.9	72.9	49.3	28.7	19.8	15.3	12.3
5°	346.8	257.3	190.6	141.9	105.4	76.9	53.1	30.1	20.4	15.7	12.6
2.5°	364.1	268.3	198.7	147.4	108.8	79.4	55.4	31.0	20.8	15.9	12.7
0°	369.9	272.0	201.4	149.3	109.9	80.2	56.2	31.3	20.9	16.0	12.8
-2.5°	364.1	268.3	198.7	147.4	108.8	79.4	55.4	31.0	20.8	15.9	12.7
-5°	346.8	257.3	190.6	141.9	105.4	76.9	53.1	30.1	20.4	15.7	12.6
-7.5°	318.8	239.4	177.5	133.6	99.9	72.9	49.3	28.7	19.8	15.3	12.3
-10°	281.1	215.1	162.0	122.5	92.4	67.3	44.0	26.6	18.9	14.8	12.0
-12.5°	245.2	187.9	144.5	109.8	82.9	60.3	37.3	24.1	17.8	14.1	11.5
-15°	206.6	161.6	125.9	97.5	73.2	51.7	30.5	21.0	16.4	13.3	11.0
-17.5°	171.4	136.8	107.6	83.5	62.8	41.7	26.6	19.3	15.3	12.5	10.3
-20°	140.6	113.5	90.8	70.2	50.9	31.0	22.3	17.4	14.1	11.7	9.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	113.5	93.3	74.0	56.5	37.7	25.8	19.3	15.5	12.9	10.8	8.8
-25°	90.8	74.0	58.4	41.3	28.0	20.6	16.9	14.0	11.8	9.9	8.0
-27.5°	70.2	56.5	41.3	28.7	21.7	17.8	14.9	12.5	10.7	8.8	7.6
-30°	50.9	37.7	28.0	21.7	18.1	15.3	13.0	11.3	9.5	7.9	7.3
-32.5°	31.0	25.8	20.6	17.8	15.3	13.2	11.6	9.9	8.2	7.5	6.9
-35°	22.3	19.3	16.9	14.9	13.0	11.6	10.1	8.5	7.6	7.1	6.5
-37.5°	17.4	15.5	14.0	12.5	11.3	9.9	8.5	7.7	7.2	6.7	6.4
-40°	14.1	12.9	11.8	10.7	9.5	8.2	7.6	7.2	6.7	6.4	6.4
-42.5°	11.7	10.8	9.9	8.8	7.9	7.5	7.1	6.7	6.4	6.4	6.1
-45°	9.6	8.8	8.0	7.6	7.3	6.9	6.5	6.4	6.4	6.1	5.6
-47.5°	7.8	7.6	7.3	7.0	6.7	6.4	6.4	6.4	6.0	5.6	5.6
-50°	7.1	6.9	6.6	6.4	6.4	6.4	6.2	5.8	5.6	5.6	5.6
-52.5°	6.4	6.4	6.4	6.4	6.2	5.9	5.6	5.6	5.6	5.6	5.6
-55°	6.4	6.2	6.0	5.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
-57.5°	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5
-60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3	5.0
-62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.3	5.0	4.8	4.5
-65°	5.6	5.6	5.6	5.4	5.3	5.1	4.9	4.7	4.4	4.2	4.0
-67.5°	5.1	5.0	4.9	4.7	4.6	4.4	4.2	4.1	4.0	4.0	4.0
-70°	4.4	4.3	4.2	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.7
-72.5°	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.6	3.5	3.3	3.1
-75°	3.7	3.6	3.5	3.4	3.3	3.2	3.0	2.8	2.5	2.2	1.9
-77.5°	2.7	2.6	2.4	2.3	2.1	1.9	1.7	1.6	1.6	1.6	1.6
-80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
-82.5°	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.0	1.0	0.9
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
80°	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	1.6	1.6	1.6	1.5	1.3	1.2	1.0	0.9	0.8	0.8	0.8
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.2	1.0	0.8	0.8
72.5°	2.7	2.3	2.0	1.6	1.6	1.6	1.6	1.5	1.3	1.1	0.9
70°	3.5	3.3	2.9	2.4	2.0	1.6	1.6	1.6	1.6	1.3	1.1
67.5°	4.0	3.8	3.5	3.3	2.8	2.3	1.7	1.6	1.6	1.6	1.3
65°	4.0	4.0	4.0	3.7	3.4	3.0	2.4	1.8	1.6	1.6	1.5
62.5°	4.2	4.0	4.0	4.0	3.8	3.5	3.1	2.4	1.7	1.6	1.6
60°	4.7	4.4	4.1	4.0	4.0	3.8	3.5	3.0	2.3	1.6	1.6
57.5°	5.2	4.9	4.5	4.1	4.0	4.0	3.8	3.4	2.8	2.0	1.6
55°	5.6	5.3	4.9	4.5	4.1	4.0	4.0	3.7	3.3	2.4	1.6
52.5°	5.6	5.6	5.4	4.9	4.5	4.1	4.0	4.0	3.5	2.9	2.0
50°	5.6	5.6	5.6	5.3	4.9	4.4	4.0	4.0	3.8	3.3	2.3
47.5°	5.6	5.6	5.6	5.6	5.2	4.7	4.2	4.0	4.0	3.5	2.7
45°	5.6	5.6	5.6	5.6	5.5	5.0	4.5	4.0	4.0	3.7	3.1
42.5°	5.6	5.6	5.6	5.6	5.6	5.3	4.8	4.2	4.0	3.9	3.3
40°	6.0	5.6	5.6	5.6	5.6	5.6	5.0	4.4	4.0	4.0	3.5
37.5°	6.4	5.8	5.6	5.6	5.6	5.6	5.3	4.7	4.1	4.0	3.6
35°	6.4	6.2	5.6	5.6	5.6	5.6	5.5	4.9	4.2	4.0	3.8
32.5°	6.4	6.4	5.9	5.6	5.6	5.6	5.6	5.1	4.4	4.0	3.9
30°	6.7	6.4	6.2	5.6	5.6	5.6	5.6	5.3	4.6	4.0	4.0
27.5°	7.0	6.4	6.4	5.8	5.6	5.6	5.6	5.4	4.7	4.1	4.0
25°	7.3	6.6	6.4	6.0	5.6	5.6	5.6	5.6	4.9	4.2	4.0
22.5°	7.6	6.9	6.4	6.2	5.6	5.6	5.6	5.6	5.0	4.3	4.0
20°	7.8	7.1	6.4	6.4	5.7	5.6	5.6	5.6	5.1	4.4	4.0
17.5°	8.1	7.3	6.6	6.4	5.9	5.6	5.6	5.6	5.2	4.5	4.0
15°	8.7	7.5	6.7	6.4	6.0	5.6	5.6	5.6	5.3	4.6	4.0
12.5°	9.2	7.6	6.9	6.4	6.1	5.6	5.6	5.6	5.4	4.6	4.0
10°	9.6	7.8	7.0	6.4	6.2	5.6	5.6	5.6	5.5	4.7	4.0
7.5°	10.0	7.9	7.1	6.4	6.3	5.6	5.6	5.6	5.5	4.7	4.0
5°	10.2	7.9	7.1	6.4	6.4	5.6	5.6	5.6	5.6	4.8	4.0
2.5°	10.4	8.0	7.2	6.4	6.4	5.6	5.6	5.6	5.6	4.8	4.0
0°	10.4	8.0	7.2	6.4	6.4	5.6	5.6	5.6	5.6	4.8	4.0
-2.5°	10.4	8.0	7.2	6.4	6.4	5.6	5.6	5.6	5.6	4.8	4.0
-5°	10.2	7.9	7.1	6.4	6.4	5.6	5.6	5.6	5.6	4.8	4.0
-7.5°	10.0	7.9	7.1	6.4	6.3	5.6	5.6	5.6	5.5	4.7	4.0
-10°	9.6	7.8	7.0	6.4	6.2	5.6	5.6	5.6	5.5	4.7	4.0
-12.5°	9.2	7.6	6.9	6.4	6.1	5.6	5.6	5.6	5.4	4.6	4.0
-15°	8.7	7.5	6.7	6.4	6.0	5.6	5.6	5.6	5.3	4.6	4.0
-17.5°	8.1	7.3	6.6	6.4	5.9	5.6	5.6	5.6	5.2	4.5	4.0
-20°	7.8	7.1	6.4	6.4	5.7	5.6	5.6	5.6	5.1	4.4	4.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED3090-M-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°	7.6	6.9	6.4	6.2	5.6	5.6	5.6	5.6	5.0	4.3	4.0
-25°	7.3	6.6	6.4	6.0	5.6	5.6	5.6	5.6	4.9	4.2	4.0
-27.5°	7.0	6.4	6.4	5.8	5.6	5.6	5.6	5.4	4.7	4.1	4.0
-30°	6.7	6.4	6.2	5.6	5.6	5.6	5.6	5.3	4.6	4.0	4.0
-32.5°	6.4	6.4	5.9	5.6	5.6	5.6	5.6	5.1	4.4	4.0	3.9
-35°	6.4	6.2	5.6	5.6	5.6	5.6	5.5	4.9	4.2	4.0	3.8
-37.5°	6.4	5.8	5.6	5.6	5.6	5.6	5.3	4.7	4.1	4.0	3.6
-40°	6.0	5.6	5.6	5.6	5.6	5.6	5.0	4.4	4.0	4.0	3.5
-42.5°	5.6	5.6	5.6	5.6	5.6	5.3	4.8	4.2	4.0	3.9	3.3
-45°	5.6	5.6	5.6	5.6	5.5	5.0	4.5	4.0	4.0	3.7	3.1
-47.5°	5.6	5.6	5.6	5.6	5.2	4.7	4.2	4.0	4.0	3.5	2.7
-50°	5.6	5.6	5.6	5.3	4.9	4.4	4.0	4.0	3.8	3.3	2.3
-52.5°	5.6	5.6	5.4	4.9	4.5	4.1	4.0	4.0	3.5	2.9	2.0
-55°	5.6	5.3	4.9	4.5	4.1	4.0	4.0	3.7	3.3	2.4	1.6
-57.5°	5.2	4.9	4.5	4.1	4.0	4.0	3.8	3.4	2.8	2.0	1.6
-60°	4.7	4.4	4.1	4.0	4.0	3.8	3.5	3.0	2.3	1.6	1.6
-62.5°	4.2	4.0	4.0	4.0	3.8	3.5	3.1	2.4	1.7	1.6	1.6
-65°	4.0	4.0	4.0	3.7	3.4	3.0	2.4	1.8	1.6	1.6	1.5
-67.5°	4.0	3.8	3.5	3.3	2.8	2.3	1.7	1.6	1.6	1.6	1.3
-70°	3.5	3.3	2.9	2.4	2.0	1.6	1.6	1.6	1.6	1.3	1.1
-72.5°	2.7	2.3	2.0	1.6	1.6	1.6	1.6	1.5	1.3	1.1	0.9
-75°	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.2	1.0	0.8	0.8
-77.5°	1.6	1.6	1.6	1.5	1.3	1.2	1.0	0.9	0.8	0.8	0.8
-80°	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8
-82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
-85°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5
-87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
77.5°	0.8	0.8	0.7	0.5	0.3	0.2	0.0
75°	0.8	0.8	0.8	0.6	0.4	0.2	0.0
72.5°	0.8	0.8	0.8	0.7	0.5	0.2	0.0
70°	0.8	0.8	0.8	0.8	0.5	0.3	0.0
67.5°	1.0	0.8	0.8	0.8	0.6	0.3	0.0
65°	1.2	0.9	0.8	0.8	0.7	0.3	0.0
62.5°	1.4	1.0	0.8	0.8	0.7	0.4	0.0
60°	1.6	1.2	0.8	0.8	0.8	0.4	0.0
57.5°	1.6	1.3	0.9	0.8	0.8	0.4	0.0
55°	1.6	1.5	1.0	0.8	0.8	0.5	0.0
52.5°	1.6	1.6	1.1	0.8	0.8	0.5	0.0
50°	1.6	1.6	1.3	0.8	0.8	0.5	0.0
47.5°	1.6	1.6	1.4	0.8	0.8	0.5	0.0
45°	1.9	1.6	1.5	0.9	0.8	0.6	0.0
42.5°	2.2	1.6	1.6	1.0	0.8	0.6	0.0
40°	2.5	1.6	1.6	1.0	0.8	0.6	0.0
37.5°	2.8	1.6	1.6	1.1	0.8	0.6	0.0
35°	3.0	1.7	1.6	1.2	0.8	0.7	0.0
32.5°	3.2	1.9	1.6	1.2	0.8	0.7	0.0
30°	3.3	2.1	1.6	1.3	0.8	0.7	0.0
27.5°	3.4	2.3	1.6	1.3	0.8	0.7	0.0
25°	3.5	2.4	1.6	1.4	0.8	0.7	0.0
22.5°	3.6	2.6	1.6	1.4	0.8	0.7	0.0
20°	3.7	2.7	1.6	1.5	0.8	0.8	0.0
17.5°	3.8	2.8	1.6	1.5	0.8	0.8	0.0
15°	3.8	2.9	1.6	1.5	0.8	0.8	0.0
12.5°	3.9	3.0	1.6	1.5	0.8	0.8	0.0
10°	3.9	3.1	1.6	1.6	0.8	0.8	0.0
7.5°	4.0	3.1	1.6	1.6	0.8	0.8	0.0
5°	4.0	3.2	1.6	1.6	0.8	0.8	0.0
2.5°	4.0	3.2	1.6	1.6	0.8	0.8	0.0
0°	4.0	3.2	1.6	1.6	0.8	0.8	0.0
-2.5°	4.0	3.2	1.6	1.6	0.8	0.8	0.0
-5°	4.0	3.2	1.6	1.6	0.8	0.8	0.0
-7.5°	4.0	3.1	1.6	1.6	0.8	0.8	0.0
-10°	3.9	3.1	1.6	1.6	0.8	0.8	0.0
-12.5°	3.9	3.0	1.6	1.5	0.8	0.8	0.0
-15°	3.8	2.9	1.6	1.5	0.8	0.8	0.0
-17.5°	3.8	2.8	1.6	1.5	0.8	0.8	0.0
-20°	3.7	2.7	1.6	1.5	0.8	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	3.6	2.6	1.6	1.4	0.8	0.7	0.0
-25°	3.5	2.4	1.6	1.4	0.8	0.7	0.0
-27.5°	3.4	2.3	1.6	1.3	0.8	0.7	0.0
-30°	3.3	2.1	1.6	1.3	0.8	0.7	0.0
-32.5°	3.2	1.9	1.6	1.2	0.8	0.7	0.0
-35°	3.0	1.7	1.6	1.2	0.8	0.7	0.0
-37.5°	2.8	1.6	1.6	1.1	0.8	0.6	0.0
-40°	2.5	1.6	1.6	1.0	0.8	0.6	0.0
-42.5°	2.2	1.6	1.6	1.0	0.8	0.6	0.0
-45°	1.9	1.6	1.5	0.9	0.8	0.6	0.0
-47.5°	1.6	1.6	1.4	0.8	0.8	0.5	0.0
-50°	1.6	1.6	1.3	0.8	0.8	0.5	0.0
-52.5°	1.6	1.6	1.1	0.8	0.8	0.5	0.0
-55°	1.6	1.5	1.0	0.8	0.8	0.5	0.0
-57.5°	1.6	1.3	0.9	0.8	0.8	0.4	0.0
-60°	1.6	1.2	0.8	0.8	0.8	0.4	0.0
-62.5°	1.4	1.0	0.8	0.8	0.7	0.4	0.0
-65°	1.2	0.9	0.8	0.8	0.7	0.3	0.0
-67.5°	1.0	0.8	0.8	0.8	0.6	0.3	0.0
-70°	0.8	0.8	0.8	0.8	0.5	0.3	0.0
-72.5°	0.8	0.8	0.8	0.7	0.5	0.2	0.0
-75°	0.8	0.8	0.8	0.6	0.4	0.2	0.0
-77.5°	0.8	0.8	0.7	0.5	0.3	0.2	0.0
-80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
-85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)