

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: P29418 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P29418 (CONVERTED FROM TYPE C PHOTOMETRY)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

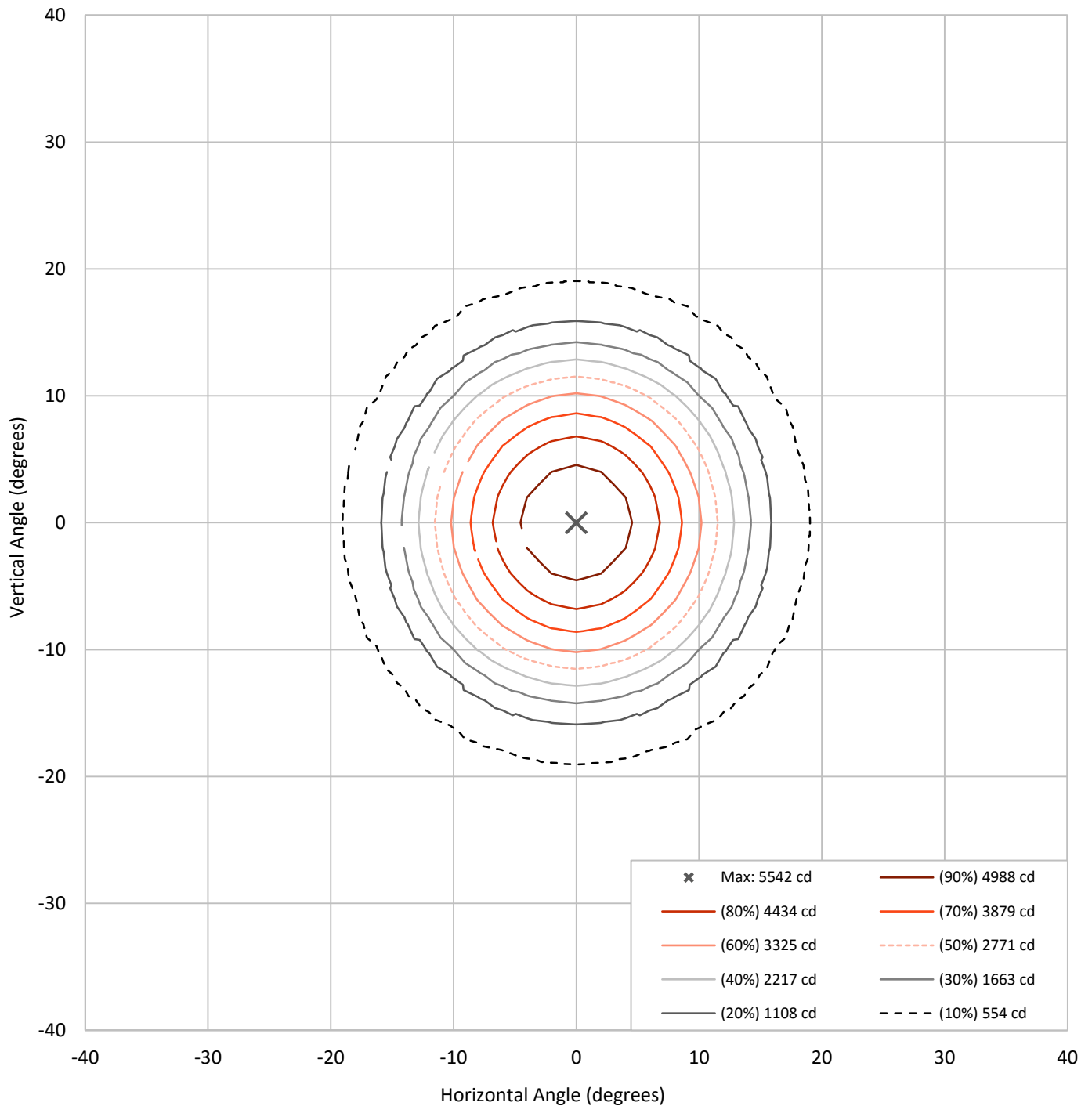
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	1013.5 lumens	Max Intensity:	5542 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	101.3 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:	516.3 lumens	Field Lumens:	793.9 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-LED4080-M-WT-L1-UNV

Iso-Candela Plot





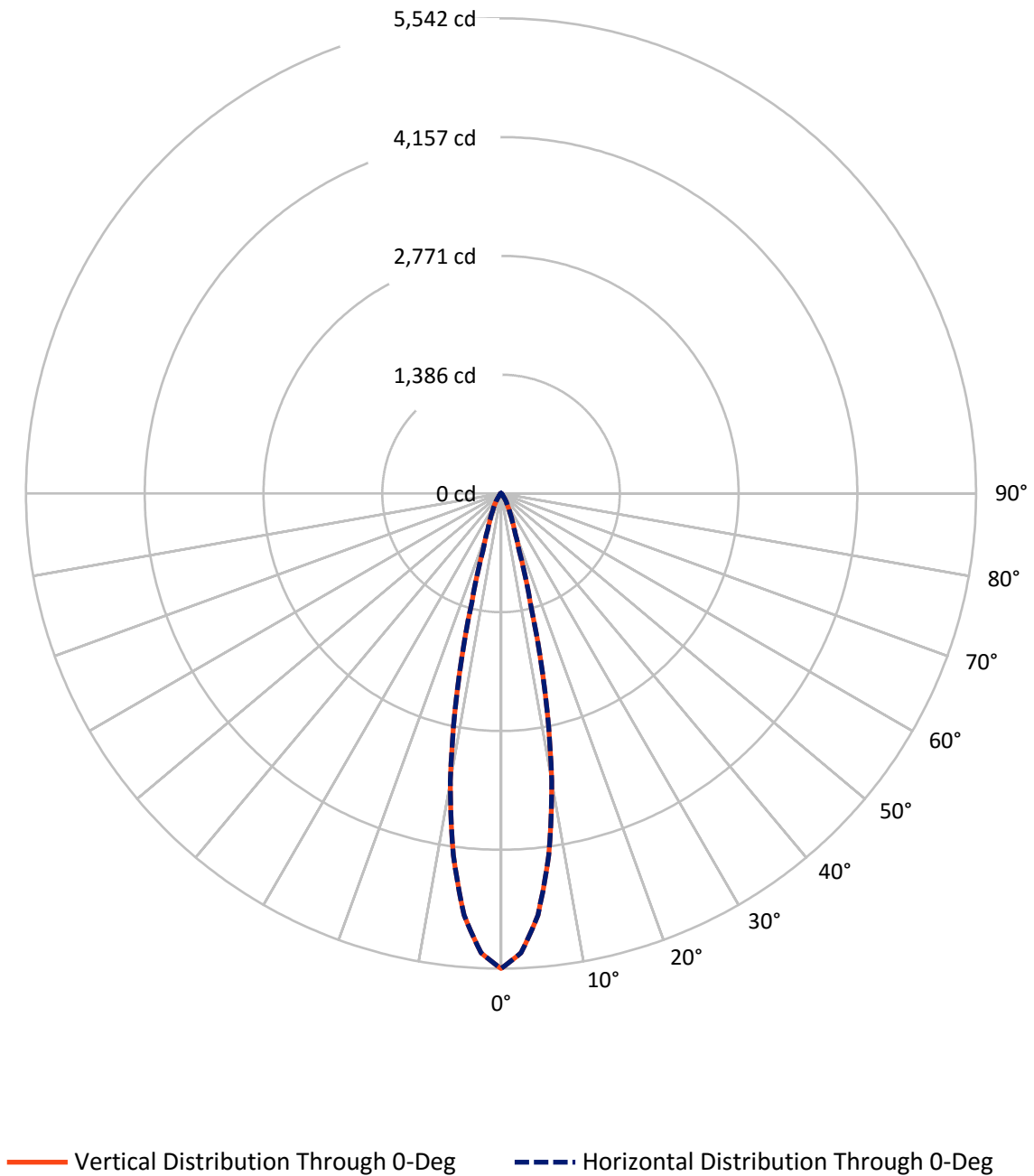
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Lumen Table

90	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0											
80	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0											
70	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0					
60		0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1		0.1				
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1				
40		0.1	0.1	0.2	0.3	0.6	1.4	2.1	2.1	1.4	0.6	0.3	0.2	0.1	0.1					
30	0.1	0.1	0.1	0.2	0.6	2.1	4.8	7.6	7.6	4.8	2.1	0.6	0.2	0.1	0.1	0.1				
20		0.1	0.1	0.3	1.2	4.5	13.5	38.6	38.6	13.5	4.5	1.2	0.3	0.1	0.1					
10	0.1	0.1	0.1	0.4	1.7	6.9	37.7	122.9	122.9	37.7	6.9	1.7	0.4	0.1	0.1	0.1				
0		0.1	0.1	0.4	1.7	6.9	37.7	122.9	122.9	37.7	6.9	1.7	0.4	0.1	0.1					
-10	0.1	0.1	0.1	0.3	1.2	4.5	13.5	38.6	38.6	13.5	4.5	1.2	0.3	0.1	0.1	0.1				
-20		0.1	0.1	0.2	0.6	2.1	4.8	7.6	7.6	4.8	2.1	0.6	0.2	0.1	0.1					
-30	0.1	0.1	0.1	0.2	0.3	0.6	1.4	2.1	2.1	1.4	0.6	0.3	0.2	0.1	0.1	0.1				
-40		0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1					
-50	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0				
-60		0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0					
-70	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0						0.0					
-80		0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0											
-90	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0						0.0					

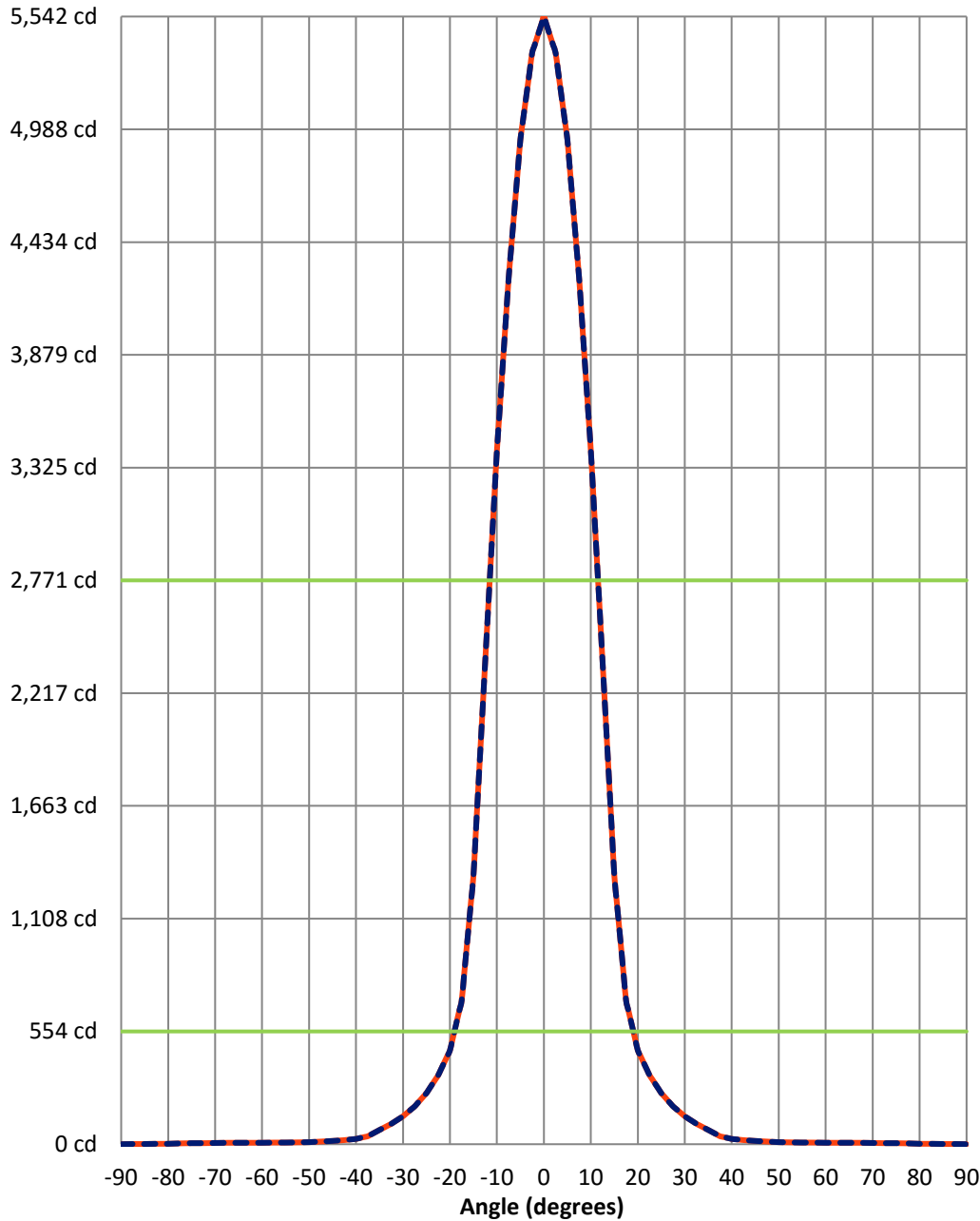
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-M-WT-L1-UNV

Luminous Intensity Polar Plot



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

Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 23.1°
 Lumens: 516.3
 Efficiency: 50.9%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 793.9
 Efficiency: 78.3%

Spill:
 Lumens: 219.6
 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	0.2	0.2	0.3	0.3	0.3	0.4	0.4
85°	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8
82.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.0	1.0
80°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.2	0.4	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.1
75°	0.0	0.3	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.3	1.5
72.5°	0.0	0.3	0.6	0.9	1.0	1.0	1.0	1.1	1.4	1.6	1.9
70°	0.0	0.3	0.7	1.0	1.0	1.0	1.0	1.4	1.7	2.0	2.0
67.5°	0.0	0.4	0.8	1.0	1.0	1.0	1.3	1.6	2.0	2.0	2.0
65°	0.0	0.4	0.8	1.0	1.0	1.1	1.5	1.9	2.0	2.0	2.2
62.5°	0.0	0.5	0.9	1.0	1.0	1.3	1.7	2.0	2.0	2.1	3.0
60°	0.0	0.5	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.8	3.8
57.5°	0.0	0.5	1.0	1.0	1.1	1.7	2.0	2.0	2.5	3.5	4.2
55°	0.0	0.6	1.0	1.0	1.3	1.9	2.0	2.0	3.1	4.1	4.6
52.5°	0.0	0.6	1.0	1.0	1.4	2.0	2.0	2.4	3.6	4.4	5.0
50°	0.0	0.6	1.0	1.0	1.6	2.0	2.0	2.9	4.1	4.7	5.0
47.5°	0.0	0.7	1.0	1.0	1.7	2.0	2.1	3.4	4.3	5.0	5.0
45°	0.0	0.7	1.0	1.1	1.8	2.0	2.4	3.8	4.6	5.0	5.0
42.5°	0.0	0.7	1.0	1.2	1.9	2.0	2.8	4.1	4.8	5.0	5.3
40°	0.0	0.8	1.0	1.3	2.0	2.0	3.1	4.3	5.0	5.0	5.6
37.5°	0.0	0.8	1.0	1.4	2.0	2.0	3.5	4.5	5.0	5.1	5.8
35°	0.0	0.8	1.0	1.5	2.0	2.2	3.8	4.7	5.0	5.3	6.1
32.5°	0.0	0.8	1.0	1.5	2.0	2.4	4.0	4.9	5.0	5.5	6.4
30°	0.0	0.9	1.0	1.6	2.0	2.6	4.2	5.0	5.0	5.7	6.6
27.5°	0.0	0.9	1.0	1.7	2.0	2.9	4.3	5.0	5.1	5.9	6.8
25°	0.0	0.9	1.0	1.7	2.0	3.1	4.4	5.0	5.2	6.1	7.0
22.5°	0.0	0.9	1.0	1.8	2.0	3.2	4.5	5.0	5.4	6.3	7.0
20°	0.0	0.9	1.0	1.8	2.0	3.4	4.6	5.0	5.5	6.4	7.0
17.5°	0.0	1.0	1.0	1.9	2.0	3.5	4.7	5.0	5.6	6.6	7.0
15°	0.0	1.0	1.0	1.9	2.0	3.7	4.8	5.0	5.7	6.7	7.0
12.5°	0.0	1.0	1.0	1.9	2.0	3.8	4.9	5.0	5.8	6.8	7.0
10°	0.0	1.0	1.0	2.0	2.0	3.8	4.9	5.0	5.9	6.9	7.0
7.5°	0.0	1.0	1.0	2.0	2.0	3.9	4.9	5.0	5.9	6.9	7.0
5°	0.0	1.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0
2.5°	0.0	1.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0
0°	0.0	1.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0
-2.5°	0.0	1.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0
-5°	0.0	1.0	1.0	2.0	2.0	4.0	5.0	5.0	6.0	7.0	7.0
-7.5°	0.0	1.0	1.0	2.0	2.0	3.9	4.9	5.0	5.9	6.9	7.0
-10°	0.0	1.0	1.0	2.0	2.0	3.8	4.9	5.0	5.9	6.9	7.0
-12.5°	0.0	1.0	1.0	1.9	2.0	3.8	4.9	5.0	5.8	6.8	7.0
-15°	0.0	1.0	1.0	1.9	2.0	3.7	4.8	5.0	5.7	6.7	7.0
-17.5°	0.0	1.0	1.0	1.9	2.0	3.5	4.7	5.0	5.6	6.6	7.0
-20°	0.0	0.9	1.0	1.8	2.0	3.4	4.6	5.0	5.5	6.4	7.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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	0.9	1.0	1.8	2.0	3.2	4.5	5.0	5.4	6.3	7.0
-25°	0.0	0.9	1.0	1.7	2.0	3.1	4.4	5.0	5.2	6.1	7.0
-27.5°	0.0	0.9	1.0	1.7	2.0	2.9	4.3	5.0	5.1	5.9	6.8
-30°	0.0	0.9	1.0	1.6	2.0	2.6	4.2	5.0	5.0	5.7	6.6
-32.5°	0.0	0.8	1.0	1.5	2.0	2.4	4.0	4.9	5.0	5.5	6.4
-35°	0.0	0.8	1.0	1.5	2.0	2.2	3.8	4.7	5.0	5.3	6.1
-37.5°	0.0	0.8	1.0	1.4	2.0	2.0	3.5	4.5	5.0	5.1	5.8
-40°	0.0	0.8	1.0	1.3	2.0	2.0	3.1	4.3	5.0	5.0	5.6
-42.5°	0.0	0.7	1.0	1.2	1.9	2.0	2.8	4.1	4.8	5.0	5.3
-45°	0.0	0.7	1.0	1.1	1.8	2.0	2.4	3.8	4.6	5.0	5.0
-47.5°	0.0	0.7	1.0	1.0	1.7	2.0	2.1	3.4	4.3	5.0	5.0
-50°	0.0	0.6	1.0	1.0	1.6	2.0	2.0	2.9	4.1	4.7	5.0
-52.5°	0.0	0.6	1.0	1.0	1.4	2.0	2.0	2.4	3.6	4.4	5.0
-55°	0.0	0.6	1.0	1.0	1.3	1.9	2.0	2.0	3.1	4.1	4.6
-57.5°	0.0	0.5	1.0	1.0	1.1	1.7	2.0	2.0	2.5	3.5	4.2
-60°	0.0	0.5	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.8	3.8
-62.5°	0.0	0.5	0.9	1.0	1.0	1.3	1.7	2.0	2.0	2.1	3.0
-65°	0.0	0.4	0.8	1.0	1.0	1.1	1.5	1.9	2.0	2.0	2.2
-67.5°	0.0	0.4	0.8	1.0	1.0	1.0	1.3	1.6	2.0	2.0	2.0
-70°	0.0	0.3	0.7	1.0	1.0	1.0	1.0	1.4	1.7	2.0	2.0
-72.5°	0.0	0.3	0.6	0.9	1.0	1.0	1.0	1.1	1.4	1.6	1.9
-75°	0.0	0.3	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.3	1.5
-77.5°	0.0	0.2	0.4	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.1
-80°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.0	1.0	1.0	1.0
-82.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.0	1.0
-85°	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4
-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°	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8
85°	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.3	1.4
80°	1.0	1.0	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0
77.5°	1.3	1.5	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.7	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.8	3.1	3.5
72.5°	2.0	2.0	2.0	2.0	2.4	2.9	3.4	3.8	4.1	4.3	4.5
70°	2.0	2.0	2.5	3.1	3.6	4.1	4.3	4.6	4.8	5.0	5.0
67.5°	2.1	2.8	3.5	4.1	4.4	4.7	5.0	5.0	5.0	5.0	5.1
65°	3.0	3.8	4.2	4.6	5.0	5.0	5.0	5.0	5.3	5.6	5.8
62.5°	3.8	4.3	4.7	5.0	5.0	5.0	5.3	5.6	6.0	6.3	6.6
60°	4.3	4.8	5.0	5.0	5.1	5.5	5.9	6.3	6.7	7.0	7.0
57.5°	4.7	5.0	5.0	5.2	5.6	6.1	6.5	6.9	7.0	7.0	7.0
55°	5.0	5.0	5.2	5.7	6.2	6.7	7.0	7.0	7.0	7.0	7.0
52.5°	5.0	5.1	5.6	6.2	6.7	7.0	7.0	7.0	7.0	7.0	7.0
50°	5.0	5.5	6.1	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.3
47.5°	5.3	5.9	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0
45°	5.6	6.3	6.9	7.0	7.0	7.0	7.0	7.0	7.6	8.0	8.0
42.5°	6.0	6.7	7.0	7.0	7.0	7.0	7.0	7.6	8.0	8.0	8.3
40°	6.3	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.4	9.0
37.5°	6.6	7.0	7.0	7.0	7.0	7.3	8.0	8.0	8.3	9.0	9.6
35°	6.9	7.0	7.0	7.0	7.0	7.7	8.0	8.2	8.9	9.5	10.6
32.5°	7.0	7.0	7.0	7.0	7.4	8.0	8.0	8.6	9.4	10.3	12.4
30°	7.0	7.0	7.0	7.0	7.7	8.0	8.3	9.1	9.9	11.9	14.1
27.5°	7.0	7.0	7.0	7.2	8.0	8.0	8.7	9.5	11.0	13.4	15.7
25°	7.0	7.0	7.0	7.5	8.0	8.3	9.1	9.9	12.3	14.8	17.6
22.5°	7.0	7.0	7.0	7.8	8.0	8.6	9.4	10.9	13.5	16.1	19.4
20°	7.0	7.0	7.1	8.0	8.0	8.9	9.8	12.0	14.6	17.7	21.7
17.5°	7.0	7.0	7.3	8.0	8.2	9.1	10.1	12.9	15.6	19.1	24.0
15°	7.0	7.0	7.5	8.0	8.4	9.4	10.9	13.7	16.7	20.5	26.1
12.5°	7.0	7.0	7.7	8.0	8.6	9.5	11.5	14.4	17.7	22.2	30.0
10°	7.0	7.0	7.8	8.0	8.7	9.7	12.0	15.0	18.5	23.5	33.2
7.5°	7.0	7.0	7.9	8.0	8.8	9.8	12.5	15.4	19.1	24.6	35.7
5°	7.0	7.0	7.9	8.0	8.9	9.9	12.8	15.7	19.6	25.4	37.5
2.5°	7.0	7.0	8.0	8.0	9.0	10.0	12.9	15.9	19.9	25.8	38.6
0°	7.0	7.0	8.0	8.0	9.0	10.0	13.0	16.0	20.0	26.0	39.0
-2.5°	7.0	7.0	8.0	8.0	9.0	10.0	12.9	15.9	19.9	25.8	38.6
-5°	7.0	7.0	7.9	8.0	8.9	9.9	12.8	15.7	19.6	25.4	37.5
-7.5°	7.0	7.0	7.9	8.0	8.8	9.8	12.5	15.4	19.1	24.6	35.7
-10°	7.0	7.0	7.8	8.0	8.7	9.7	12.0	15.0	18.5	23.5	33.2
-12.5°	7.0	7.0	7.7	8.0	8.6	9.5	11.5	14.4	17.7	22.2	30.0
-15°	7.0	7.0	7.5	8.0	8.4	9.4	10.9	13.7	16.7	20.5	26.1
-17.5°	7.0	7.0	7.3	8.0	8.2	9.1	10.1	12.9	15.6	19.1	24.0
-20°	7.0	7.0	7.1	8.0	8.0	8.9	9.8	12.0	14.6	17.7	21.7



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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°	7.0	7.0	7.0	7.8	8.0	8.6	9.4	10.9	13.5	16.1	19.4
-25°	7.0	7.0	7.0	7.5	8.0	8.3	9.1	9.9	12.3	14.8	17.6
-27.5°	7.0	7.0	7.0	7.2	8.0	8.0	8.7	9.5	11.0	13.4	15.7
-30°	7.0	7.0	7.0	7.0	7.7	8.0	8.3	9.1	9.9	11.9	14.1
-32.5°	7.0	7.0	7.0	7.0	7.4	8.0	8.0	8.6	9.4	10.3	12.4
-35°	6.9	7.0	7.0	7.0	7.0	7.7	8.0	8.2	8.9	9.5	10.6
-37.5°	6.6	7.0	7.0	7.0	7.0	7.3	8.0	8.0	8.3	9.0	9.6
-40°	6.3	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.4	9.0
-42.5°	6.0	6.7	7.0	7.0	7.0	7.0	7.0	7.6	8.0	8.0	8.3
-45°	5.6	6.3	6.9	7.0	7.0	7.0	7.0	7.0	7.6	8.0	8.0
-47.5°	5.3	5.9	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0
-50°	5.0	5.5	6.1	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.3
-52.5°	5.0	5.1	5.6	6.2	6.7	7.0	7.0	7.0	7.0	7.0	7.0
-55°	5.0	5.0	5.2	5.7	6.2	6.7	7.0	7.0	7.0	7.0	7.0
-57.5°	4.7	5.0	5.0	5.2	5.6	6.1	6.5	6.9	7.0	7.0	7.0
-60°	4.3	4.8	5.0	5.0	5.1	5.5	5.9	6.3	6.7	7.0	7.0
-62.5°	3.8	4.3	4.7	5.0	5.0	5.0	5.3	5.6	6.0	6.3	6.6
-65°	3.0	3.8	4.2	4.6	5.0	5.0	5.0	5.0	5.3	5.6	5.8
-67.5°	2.1	2.8	3.5	4.1	4.4	4.7	5.0	5.0	5.0	5.0	5.1
-70°	2.0	2.0	2.5	3.1	3.6	4.1	4.3	4.6	4.8	5.0	5.0
-72.5°	2.0	2.0	2.0	2.0	2.4	2.9	3.4	3.8	4.1	4.3	4.5
-75°	1.7	2.0	2.0	2.0	2.0	2.0	2.1	2.4	2.8	3.1	3.5
-77.5°	1.3	1.5	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
-80°	1.0	1.0	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0
-82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.3	1.4
-85°	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-87.5°	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	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):

	-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°	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.2	2.4	2.6	2.9	3.1	3.2	3.4	3.5	3.7	3.8	3.8
75°	3.8	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9
72.5°	4.7	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	5.0	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9
67.5°	5.3	5.5	5.7	5.9	6.1	6.3	6.4	6.6	6.7	6.8	6.9
65°	6.1	6.4	6.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
57.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.3	7.5	7.7	7.8
55°	7.0	7.0	7.0	7.2	7.5	7.8	8.0	8.0	8.0	8.0	8.0
52.5°	7.0	7.4	7.7	8.0	8.0	8.0	8.0	8.2	8.4	8.6	8.7
50°	7.7	8.0	8.0	8.0	8.3	8.6	8.9	9.1	9.4	9.5	9.7
47.5°	8.0	8.0	8.3	8.7	9.1	9.4	9.8	10.1	10.9	11.5	12.0
45°	8.2	8.6	9.1	9.5	9.9	10.9	12.0	12.9	13.7	14.4	15.0
42.5°	8.9	9.4	9.9	11.0	12.3	13.5	14.6	15.6	16.7	17.7	18.5
40°	9.5	10.3	11.9	13.4	14.8	16.1	17.7	19.1	20.5	22.2	23.5
37.5°	10.6	12.4	14.1	15.7	17.6	19.4	21.7	24.0	26.1	30.0	33.2
35°	12.6	14.4	16.3	18.6	21.0	24.0	27.7	33.1	38.0	46.5	54.8
32.5°	14.4	16.5	19.1	22.2	25.6	32.2	38.6	52.0	64.5	75.1	83.9
30°	16.3	19.1	22.6	27.0	34.9	46.9	63.4	78.2	91.3	103.3	115.2
27.5°	18.6	22.2	27.0	35.8	51.5	70.4	87.5	104.1	121.6	136.9	152.7
25°	21.0	25.6	34.9	51.5	72.7	92.3	113.2	134.2	156.9	180.1	201.9
22.5°	24.0	32.2	46.9	70.4	92.3	116.3	141.4	170.6	201.4	234.2	268.0
20°	27.7	38.6	63.4	87.5	113.2	141.4	175.2	213.6	257.5	305.6	350.3
17.5°	33.1	52.0	78.2	104.1	134.2	170.6	213.6	266.7	325.1	393.1	457.2
15°	38.0	64.5	91.3	121.6	156.9	201.4	257.5	325.1	407.8	500.7	636.4
12.5°	46.5	75.1	103.3	136.9	180.1	234.2	305.6	393.1	500.7	690.0	1021.1
10°	54.8	83.9	115.2	152.7	201.9	268.0	350.3	457.2	636.4	1021.1	1666.7
7.5°	61.4	90.9	124.6	166.5	221.2	298.3	397.3	531.7	841.9	1495.4	2379.2
5°	66.2	95.9	131.4	176.8	237.6	320.7	432.2	613.1	1072.3	1949.7	2946.0
2.5°	69.0	99.0	135.6	183.7	247.6	334.4	453.7	680.2	1256.1	2260.3	3289.2
0°	70.0	100.0	137.0	186.0	251.0	339.0	461.0	706.0	1319.0	2369.0	3408.0
-2.5°	69.0	99.0	135.6	183.7	247.6	334.4	453.7	680.2	1256.1	2260.3	3289.2
-5°	66.2	95.9	131.4	176.8	237.6	320.7	432.2	613.1	1072.3	1949.7	2946.0
-7.5°	61.4	90.9	124.6	166.5	221.2	298.3	397.3	531.7	841.9	1495.4	2379.2
-10°	54.8	83.9	115.2	152.7	201.9	268.0	350.3	457.2	636.4	1021.1	1666.7
-12.5°	46.5	75.1	103.3	136.9	180.1	234.2	305.6	393.1	500.7	690.0	1021.1
-15°	38.0	64.5	91.3	121.6	156.9	201.4	257.5	325.1	407.8	500.7	636.4
-17.5°	33.1	52.0	78.2	104.1	134.2	170.6	213.6	266.7	325.1	393.1	457.2
-20°	27.7	38.6	63.4	87.5	113.2	141.4	175.2	213.6	257.5	305.6	350.3



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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°	24.0	32.2	46.9	70.4	92.3	116.3	141.4	170.6	201.4	234.2	268.0
-25°	21.0	25.6	34.9	51.5	72.7	92.3	113.2	134.2	156.9	180.1	201.9
-27.5°	18.6	22.2	27.0	35.8	51.5	70.4	87.5	104.1	121.6	136.9	152.7
-30°	16.3	19.1	22.6	27.0	34.9	46.9	63.4	78.2	91.3	103.3	115.2
-32.5°	14.4	16.5	19.1	22.2	25.6	32.2	38.6	52.0	64.5	75.1	83.9
-35°	12.6	14.4	16.3	18.6	21.0	24.0	27.7	33.1	38.0	46.5	54.8
-37.5°	10.6	12.4	14.1	15.7	17.6	19.4	21.7	24.0	26.1	30.0	33.2
-40°	9.5	10.3	11.9	13.4	14.8	16.1	17.7	19.1	20.5	22.2	23.5
-42.5°	8.9	9.4	9.9	11.0	12.3	13.5	14.6	15.6	16.7	17.7	18.5
-45°	8.2	8.6	9.1	9.5	9.9	10.9	12.0	12.9	13.7	14.4	15.0
-47.5°	8.0	8.0	8.3	8.7	9.1	9.4	9.8	10.1	10.9	11.5	12.0
-50°	7.7	8.0	8.0	8.0	8.3	8.6	8.9	9.1	9.4	9.5	9.7
-52.5°	7.0	7.4	7.7	8.0	8.0	8.0	8.0	8.2	8.4	8.6	8.7
-55°	7.0	7.0	7.0	7.2	7.5	7.8	8.0	8.0	8.0	8.0	8.0
-57.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.3	7.5	7.7	7.8
-60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-62.5°	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-65°	6.1	6.4	6.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-67.5°	5.3	5.5	5.7	5.9	6.1	6.3	6.4	6.6	6.7	6.8	6.9
-70°	5.0	5.0	5.0	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9
-72.5°	4.7	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
-75°	3.8	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9
-77.5°	2.2	2.4	2.6	2.9	3.1	3.2	3.4	3.5	3.7	3.8	3.8
-80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
-82.5°	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0
-85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-87.5°	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
-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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.8	3.7	3.5
75°	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8	4.7
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.8	5.7	5.6
67.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.6
65°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
57.5°	7.9	7.9	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.5	7.3
55°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
52.5°	8.8	8.9	9.0	9.0	9.0	8.9	8.8	8.7	8.6	8.4	8.2
50°	9.8	9.9	10.0	10.0	10.0	9.9	9.8	9.7	9.5	9.4	9.1
47.5°	12.5	12.8	12.9	13.0	12.9	12.8	12.5	12.0	11.5	10.9	10.1
45°	15.4	15.7	15.9	16.0	15.9	15.7	15.4	15.0	14.4	13.7	12.9
42.5°	19.1	19.6	19.9	20.0	19.9	19.6	19.1	18.5	17.7	16.7	15.6
40°	24.6	25.4	25.8	26.0	25.8	25.4	24.6	23.5	22.2	20.5	19.1
37.5°	35.7	37.5	38.6	39.0	38.6	37.5	35.7	33.2	30.0	26.1	24.0
35°	61.4	66.2	69.0	70.0	69.0	66.2	61.4	54.8	46.5	38.0	33.1
32.5°	90.9	95.9	99.0	100.0	99.0	95.9	90.9	83.9	75.1	64.5	52.0
30°	124.6	131.4	135.6	137.0	135.6	131.4	124.6	115.2	103.3	91.3	78.2
27.5°	166.5	176.8	183.7	186.0	183.7	176.8	166.5	152.7	136.9	121.6	104.1
25°	221.2	237.6	247.6	251.0	247.6	237.6	221.2	201.9	180.1	156.9	134.2
22.5°	298.3	320.7	334.4	339.0	334.4	320.7	298.3	268.0	234.2	201.4	170.6
20°	397.3	432.2	453.7	461.0	453.7	432.2	397.3	350.3	305.6	257.5	213.6
17.5°	531.7	613.1	680.2	706.0	680.2	613.1	531.7	457.2	393.1	325.1	266.7
15°	841.9	1072.3	1256.1	1319.0	1256.1	1072.3	841.9	636.4	500.7	407.8	325.1
12.5°	1495.4	1949.7	2260.3	2369.0	2260.3	1949.7	1495.4	1021.1	690.0	500.7	393.1
10°	2379.2	2946.0	3289.2	3408.0	3289.2	2946.0	2379.2	1666.7	1021.1	636.4	457.2
7.5°	3177.3	3763.9	4131.2	4257.5	4131.2	3763.9	3177.3	2379.2	1495.4	841.9	531.7
5°	3763.9	4393.2	4792.0	4938.0	4792.0	4393.2	3763.9	2946.0	1949.7	1072.3	613.1
2.5°	4131.2	4792.0	5219.9	5363.5	5219.9	4792.0	4131.2	3289.2	2260.3	1256.1	680.2
0°	4257.5	4938.0	5363.5	5542.0	5363.5	4938.0	4257.5	3408.0	2369.0	1319.0	706.0
-2.5°	4131.2	4792.0	5219.9	5363.5	5219.9	4792.0	4131.2	3289.2	2260.3	1256.1	680.2
-5°	3763.9	4393.2	4792.0	4938.0	4792.0	4393.2	3763.9	2946.0	1949.7	1072.3	613.1
-7.5°	3177.3	3763.9	4131.2	4257.5	4131.2	3763.9	3177.3	2379.2	1495.4	841.9	531.7
-10°	2379.2	2946.0	3289.2	3408.0	3289.2	2946.0	2379.2	1666.7	1021.1	636.4	457.2
-12.5°	1495.4	1949.7	2260.3	2369.0	2260.3	1949.7	1495.4	1021.1	690.0	500.7	393.1
-15°	841.9	1072.3	1256.1	1319.0	1256.1	1072.3	841.9	636.4	500.7	407.8	325.1
-17.5°	531.7	613.1	680.2	706.0	680.2	613.1	531.7	457.2	393.1	325.1	266.7
-20°	397.3	432.2	453.7	461.0	453.7	432.2	397.3	350.3	305.6	257.5	213.6



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	298.3	320.7	334.4	339.0	334.4	320.7	298.3	268.0	234.2	201.4	170.6
-25°	221.2	237.6	247.6	251.0	247.6	237.6	221.2	201.9	180.1	156.9	134.2
-27.5°	166.5	176.8	183.7	186.0	183.7	176.8	166.5	152.7	136.9	121.6	104.1
-30°	124.6	131.4	135.6	137.0	135.6	131.4	124.6	115.2	103.3	91.3	78.2
-32.5°	90.9	95.9	99.0	100.0	99.0	95.9	90.9	83.9	75.1	64.5	52.0
-35°	61.4	66.2	69.0	70.0	69.0	66.2	61.4	54.8	46.5	38.0	33.1
-37.5°	35.7	37.5	38.6	39.0	38.6	37.5	35.7	33.2	30.0	26.1	24.0
-40°	24.6	25.4	25.8	26.0	25.8	25.4	24.6	23.5	22.2	20.5	19.1
-42.5°	19.1	19.6	19.9	20.0	19.9	19.6	19.1	18.5	17.7	16.7	15.6
-45°	15.4	15.7	15.9	16.0	15.9	15.7	15.4	15.0	14.4	13.7	12.9
-47.5°	12.5	12.8	12.9	13.0	12.9	12.8	12.5	12.0	11.5	10.9	10.1
-50°	9.8	9.9	10.0	10.0	10.0	9.9	9.8	9.7	9.5	9.4	9.1
-52.5°	8.8	8.9	9.0	9.0	9.0	8.9	8.8	8.7	8.6	8.4	8.2
-55°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
-57.5°	7.9	7.9	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.5	7.3
-60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-62.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-65°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-67.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.6
-70°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.8	5.7	5.6
-72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
-75°	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8	4.7
-77.5°	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.8	3.7	3.5
-80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
-82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
-85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-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-LED4080-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°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.8
77.5°	3.4	3.2	3.1	2.9	2.6	2.4	2.2	2.0	2.0	2.0	2.0
75°	4.6	4.5	4.4	4.3	4.2	4.0	3.8	3.5	3.1	2.8	2.4
72.5°	5.0	5.0	5.0	5.0	5.0	4.9	4.7	4.5	4.3	4.1	3.8
70°	5.5	5.4	5.2	5.1	5.0	5.0	5.0	5.0	5.0	4.8	4.6
67.5°	6.4	6.3	6.1	5.9	5.7	5.5	5.3	5.1	5.0	5.0	5.0
65°	7.0	7.0	7.0	6.8	6.6	6.4	6.1	5.8	5.6	5.3	5.0
62.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.6	6.3	6.0	5.6
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.3
57.5°	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
55°	8.0	7.8	7.5	7.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0
52.5°	8.0	8.0	8.0	8.0	7.7	7.4	7.0	7.0	7.0	7.0	7.0
50°	8.9	8.6	8.3	8.0	8.0	8.0	7.7	7.3	7.0	7.0	7.0
47.5°	9.8	9.4	9.1	8.7	8.3	8.0	8.0	8.0	7.5	7.0	7.0
45°	12.0	10.9	9.9	9.5	9.1	8.6	8.2	8.0	8.0	7.6	7.0
42.5°	14.6	13.5	12.3	11.0	9.9	9.4	8.9	8.3	8.0	8.0	7.6
40°	17.7	16.1	14.8	13.4	11.9	10.3	9.5	9.0	8.4	8.0	8.0
37.5°	21.7	19.4	17.6	15.7	14.1	12.4	10.6	9.6	9.0	8.3	8.0
35°	27.7	24.0	21.0	18.6	16.3	14.4	12.6	10.6	9.5	8.9	8.2
32.5°	38.6	32.2	25.6	22.2	19.1	16.5	14.4	12.4	10.3	9.4	8.6
30°	63.4	46.9	34.9	27.0	22.6	19.1	16.3	14.1	11.9	9.9	9.1
27.5°	87.5	70.4	51.5	35.8	27.0	22.2	18.6	15.7	13.4	11.0	9.5
25°	113.2	92.3	72.7	51.5	34.9	25.6	21.0	17.6	14.8	12.3	9.9
22.5°	141.4	116.3	92.3	70.4	46.9	32.2	24.0	19.4	16.1	13.5	10.9
20°	175.2	141.4	113.2	87.5	63.4	38.6	27.7	21.7	17.7	14.6	12.0
17.5°	213.6	170.6	134.2	104.1	78.2	52.0	33.1	24.0	19.1	15.6	12.9
15°	257.5	201.4	156.9	121.6	91.3	64.5	38.0	26.1	20.5	16.7	13.7
12.5°	305.6	234.2	180.1	136.9	103.3	75.1	46.5	30.0	22.2	17.7	14.4
10°	350.3	268.0	201.9	152.7	115.2	83.9	54.8	33.2	23.5	18.5	15.0
7.5°	397.3	298.3	221.2	166.5	124.6	90.9	61.4	35.7	24.6	19.1	15.4
5°	432.2	320.7	237.6	176.8	131.4	95.9	66.2	37.5	25.4	19.6	15.7
2.5°	453.7	334.4	247.6	183.7	135.6	99.0	69.0	38.6	25.8	19.9	15.9
0°	461.0	339.0	251.0	186.0	137.0	100.0	70.0	39.0	26.0	20.0	16.0
-2.5°	453.7	334.4	247.6	183.7	135.6	99.0	69.0	38.6	25.8	19.9	15.9
-5°	432.2	320.7	237.6	176.8	131.4	95.9	66.2	37.5	25.4	19.6	15.7
-7.5°	397.3	298.3	221.2	166.5	124.6	90.9	61.4	35.7	24.6	19.1	15.4
-10°	350.3	268.0	201.9	152.7	115.2	83.9	54.8	33.2	23.5	18.5	15.0
-12.5°	305.6	234.2	180.1	136.9	103.3	75.1	46.5	30.0	22.2	17.7	14.4
-15°	257.5	201.4	156.9	121.6	91.3	64.5	38.0	26.1	20.5	16.7	13.7
-17.5°	213.6	170.6	134.2	104.1	78.2	52.0	33.1	24.0	19.1	15.6	12.9
-20°	175.2	141.4	113.2	87.5	63.4	38.6	27.7	21.7	17.7	14.6	12.0



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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°	141.4	116.3	92.3	70.4	46.9	32.2	24.0	19.4	16.1	13.5	10.9
-25°	113.2	92.3	72.7	51.5	34.9	25.6	21.0	17.6	14.8	12.3	9.9
-27.5°	87.5	70.4	51.5	35.8	27.0	22.2	18.6	15.7	13.4	11.0	9.5
-30°	63.4	46.9	34.9	27.0	22.6	19.1	16.3	14.1	11.9	9.9	9.1
-32.5°	38.6	32.2	25.6	22.2	19.1	16.5	14.4	12.4	10.3	9.4	8.6
-35°	27.7	24.0	21.0	18.6	16.3	14.4	12.6	10.6	9.5	8.9	8.2
-37.5°	21.7	19.4	17.6	15.7	14.1	12.4	10.6	9.6	9.0	8.3	8.0
-40°	17.7	16.1	14.8	13.4	11.9	10.3	9.5	9.0	8.4	8.0	8.0
-42.5°	14.6	13.5	12.3	11.0	9.9	9.4	8.9	8.3	8.0	8.0	7.6
-45°	12.0	10.9	9.9	9.5	9.1	8.6	8.2	8.0	8.0	7.6	7.0
-47.5°	9.8	9.4	9.1	8.7	8.3	8.0	8.0	8.0	7.5	7.0	7.0
-50°	8.9	8.6	8.3	8.0	8.0	8.0	7.7	7.3	7.0	7.0	7.0
-52.5°	8.0	8.0	8.0	8.0	7.7	7.4	7.0	7.0	7.0	7.0	7.0
-55°	8.0	7.8	7.5	7.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0
-57.5°	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9
-60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.3
-62.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.6	6.3	6.0	5.6
-65°	7.0	7.0	7.0	6.8	6.6	6.4	6.1	5.8	5.6	5.3	5.0
-67.5°	6.4	6.3	6.1	5.9	5.7	5.5	5.3	5.1	5.0	5.0	5.0
-70°	5.5	5.4	5.2	5.1	5.0	5.0	5.0	5.0	5.0	4.8	4.6
-72.5°	5.0	5.0	5.0	5.0	5.0	4.9	4.7	4.5	4.3	4.1	3.8
-75°	4.6	4.5	4.4	4.3	4.2	4.0	3.8	3.5	3.1	2.8	2.4
-77.5°	3.4	3.2	3.1	2.9	2.6	2.4	2.2	2.0	2.0	2.0	2.0
-80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.8
-82.5°	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1.1
-85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-87.5°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7
-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°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
80°	1.7	1.6	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	2.0	2.0	2.0	1.9	1.7	1.5	1.3	1.1	1.0	1.0	1.0
75°	2.1	2.0	2.0	2.0	2.0	2.0	1.7	1.5	1.3	1.0	1.0
72.5°	3.4	2.9	2.4	2.0	2.0	2.0	2.0	1.9	1.6	1.4	1.1
70°	4.3	4.1	3.6	3.1	2.5	2.0	2.0	2.0	2.0	1.7	1.4
67.5°	5.0	4.7	4.4	4.1	3.5	2.8	2.1	2.0	2.0	2.0	1.6
65°	5.0	5.0	5.0	4.6	4.2	3.8	3.0	2.2	2.0	2.0	1.9
62.5°	5.3	5.0	5.0	5.0	4.7	4.3	3.8	3.0	2.1	2.0	2.0
60°	5.9	5.5	5.1	5.0	5.0	4.8	4.3	3.8	2.8	2.0	2.0
57.5°	6.5	6.1	5.6	5.2	5.0	5.0	4.7	4.2	3.5	2.5	2.0
55°	7.0	6.7	6.2	5.7	5.2	5.0	5.0	4.6	4.1	3.1	2.0
52.5°	7.0	7.0	6.7	6.2	5.6	5.1	5.0	5.0	4.4	3.6	2.4
50°	7.0	7.0	7.0	6.7	6.1	5.5	5.0	5.0	4.7	4.1	2.9
47.5°	7.0	7.0	7.0	7.0	6.5	5.9	5.3	5.0	5.0	4.3	3.4
45°	7.0	7.0	7.0	7.0	6.9	6.3	5.6	5.0	5.0	4.6	3.8
42.5°	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.3	5.0	4.8	4.1
40°	7.5	7.0	7.0	7.0	7.0	7.0	6.3	5.6	5.0	5.0	4.3
37.5°	8.0	7.3	7.0	7.0	7.0	7.0	6.6	5.8	5.1	5.0	4.5
35°	8.0	7.7	7.0	7.0	7.0	7.0	6.9	6.1	5.3	5.0	4.7
32.5°	8.0	8.0	7.4	7.0	7.0	7.0	7.0	6.4	5.5	5.0	4.9
30°	8.3	8.0	7.7	7.0	7.0	7.0	7.0	6.6	5.7	5.0	5.0
27.5°	8.7	8.0	8.0	7.2	7.0	7.0	7.0	6.8	5.9	5.1	5.0
25°	9.1	8.3	8.0	7.5	7.0	7.0	7.0	7.0	6.1	5.2	5.0
22.5°	9.4	8.6	8.0	7.8	7.0	7.0	7.0	7.0	6.3	5.4	5.0
20°	9.8	8.9	8.0	8.0	7.1	7.0	7.0	7.0	6.4	5.5	5.0
17.5°	10.1	9.1	8.2	8.0	7.3	7.0	7.0	7.0	6.6	5.6	5.0
15°	10.9	9.4	8.4	8.0	7.5	7.0	7.0	7.0	6.7	5.7	5.0
12.5°	11.5	9.5	8.6	8.0	7.7	7.0	7.0	7.0	6.8	5.8	5.0
10°	12.0	9.7	8.7	8.0	7.8	7.0	7.0	7.0	6.9	5.9	5.0
7.5°	12.5	9.8	8.8	8.0	7.9	7.0	7.0	7.0	6.9	5.9	5.0
5°	12.8	9.9	8.9	8.0	7.9	7.0	7.0	7.0	7.0	6.0	5.0
2.5°	12.9	10.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0
0°	13.0	10.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0
-2.5°	12.9	10.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0
-5°	12.8	9.9	8.9	8.0	7.9	7.0	7.0	7.0	7.0	6.0	5.0
-7.5°	12.5	9.8	8.8	8.0	7.9	7.0	7.0	7.0	6.9	5.9	5.0
-10°	12.0	9.7	8.7	8.0	7.8	7.0	7.0	7.0	6.9	5.9	5.0
-12.5°	11.5	9.5	8.6	8.0	7.7	7.0	7.0	7.0	6.8	5.8	5.0
-15°	10.9	9.4	8.4	8.0	7.5	7.0	7.0	7.0	6.7	5.7	5.0
-17.5°	10.1	9.1	8.2	8.0	7.3	7.0	7.0	7.0	6.6	5.6	5.0
-20°	9.8	8.9	8.0	8.0	7.1	7.0	7.0	7.0	6.4	5.5	5.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED4080-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°	9.4	8.6	8.0	7.8	7.0	7.0	7.0	7.0	6.3	5.4	5.0
-25°	9.1	8.3	8.0	7.5	7.0	7.0	7.0	7.0	6.1	5.2	5.0
-27.5°	8.7	8.0	8.0	7.2	7.0	7.0	7.0	6.8	5.9	5.1	5.0
-30°	8.3	8.0	7.7	7.0	7.0	7.0	7.0	6.6	5.7	5.0	5.0
-32.5°	8.0	8.0	7.4	7.0	7.0	7.0	7.0	6.4	5.5	5.0	4.9
-35°	8.0	7.7	7.0	7.0	7.0	7.0	6.9	6.1	5.3	5.0	4.7
-37.5°	8.0	7.3	7.0	7.0	7.0	7.0	6.6	5.8	5.1	5.0	4.5
-40°	7.5	7.0	7.0	7.0	7.0	7.0	6.3	5.6	5.0	5.0	4.3
-42.5°	7.0	7.0	7.0	7.0	7.0	6.7	6.0	5.3	5.0	4.8	4.1
-45°	7.0	7.0	7.0	7.0	6.9	6.3	5.6	5.0	5.0	4.6	3.8
-47.5°	7.0	7.0	7.0	7.0	6.5	5.9	5.3	5.0	5.0	4.3	3.4
-50°	7.0	7.0	7.0	6.7	6.1	5.5	5.0	5.0	4.7	4.1	2.9
-52.5°	7.0	7.0	6.7	6.2	5.6	5.1	5.0	5.0	4.4	3.6	2.4
-55°	7.0	6.7	6.2	5.7	5.2	5.0	5.0	4.6	4.1	3.1	2.0
-57.5°	6.5	6.1	5.6	5.2	5.0	5.0	4.7	4.2	3.5	2.5	2.0
-60°	5.9	5.5	5.1	5.0	5.0	4.8	4.3	3.8	2.8	2.0	2.0
-62.5°	5.3	5.0	5.0	5.0	4.7	4.3	3.8	3.0	2.1	2.0	2.0
-65°	5.0	5.0	5.0	4.6	4.2	3.8	3.0	2.2	2.0	2.0	1.9
-67.5°	5.0	4.7	4.4	4.1	3.5	2.8	2.1	2.0	2.0	2.0	1.6
-70°	4.3	4.1	3.6	3.1	2.5	2.0	2.0	2.0	2.0	1.7	1.4
-72.5°	3.4	2.9	2.4	2.0	2.0	2.0	2.0	1.9	1.6	1.4	1.1
-75°	2.1	2.0	2.0	2.0	2.0	2.0	1.7	1.5	1.3	1.0	1.0
-77.5°	2.0	2.0	2.0	1.9	1.7	1.5	1.3	1.1	1.0	1.0	1.0
-80°	1.7	1.6	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
-82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
-85°	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6
-87.5°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	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):

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



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	4.5	3.2	2.0	1.8	1.0	0.9	0.0
-25°	4.4	3.1	2.0	1.7	1.0	0.9	0.0
-27.5°	4.3	2.9	2.0	1.7	1.0	0.9	0.0
-30°	4.2	2.6	2.0	1.6	1.0	0.9	0.0
-32.5°	4.0	2.4	2.0	1.5	1.0	0.8	0.0
-35°	3.8	2.2	2.0	1.5	1.0	0.8	0.0
-37.5°	3.5	2.0	2.0	1.4	1.0	0.8	0.0
-40°	3.1	2.0	2.0	1.3	1.0	0.8	0.0
-42.5°	2.8	2.0	1.9	1.2	1.0	0.7	0.0
-45°	2.4	2.0	1.8	1.1	1.0	0.7	0.0
-47.5°	2.1	2.0	1.7	1.0	1.0	0.7	0.0
-50°	2.0	2.0	1.6	1.0	1.0	0.6	0.0
-52.5°	2.0	2.0	1.4	1.0	1.0	0.6	0.0
-55°	2.0	1.9	1.3	1.0	1.0	0.6	0.0
-57.5°	2.0	1.7	1.1	1.0	1.0	0.5	0.0
-60°	2.0	1.5	1.0	1.0	1.0	0.5	0.0
-62.5°	1.7	1.3	1.0	1.0	0.9	0.5	0.0
-65°	1.5	1.1	1.0	1.0	0.8	0.4	0.0
-67.5°	1.3	1.0	1.0	1.0	0.8	0.4	0.0
-70°	1.0	1.0	1.0	1.0	0.7	0.3	0.0
-72.5°	1.0	1.0	1.0	0.9	0.6	0.3	0.0
-75°	1.0	1.0	1.0	0.8	0.5	0.3	0.0
-77.5°	1.0	1.0	0.9	0.6	0.4	0.2	0.0
-80°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
-82.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
-85°	0.5	0.4	0.3	0.3	0.2	0.1	0.0
-87.5°	0.3	0.2	0.2	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)