

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: P220318 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220318 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
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]-LED3097-M-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

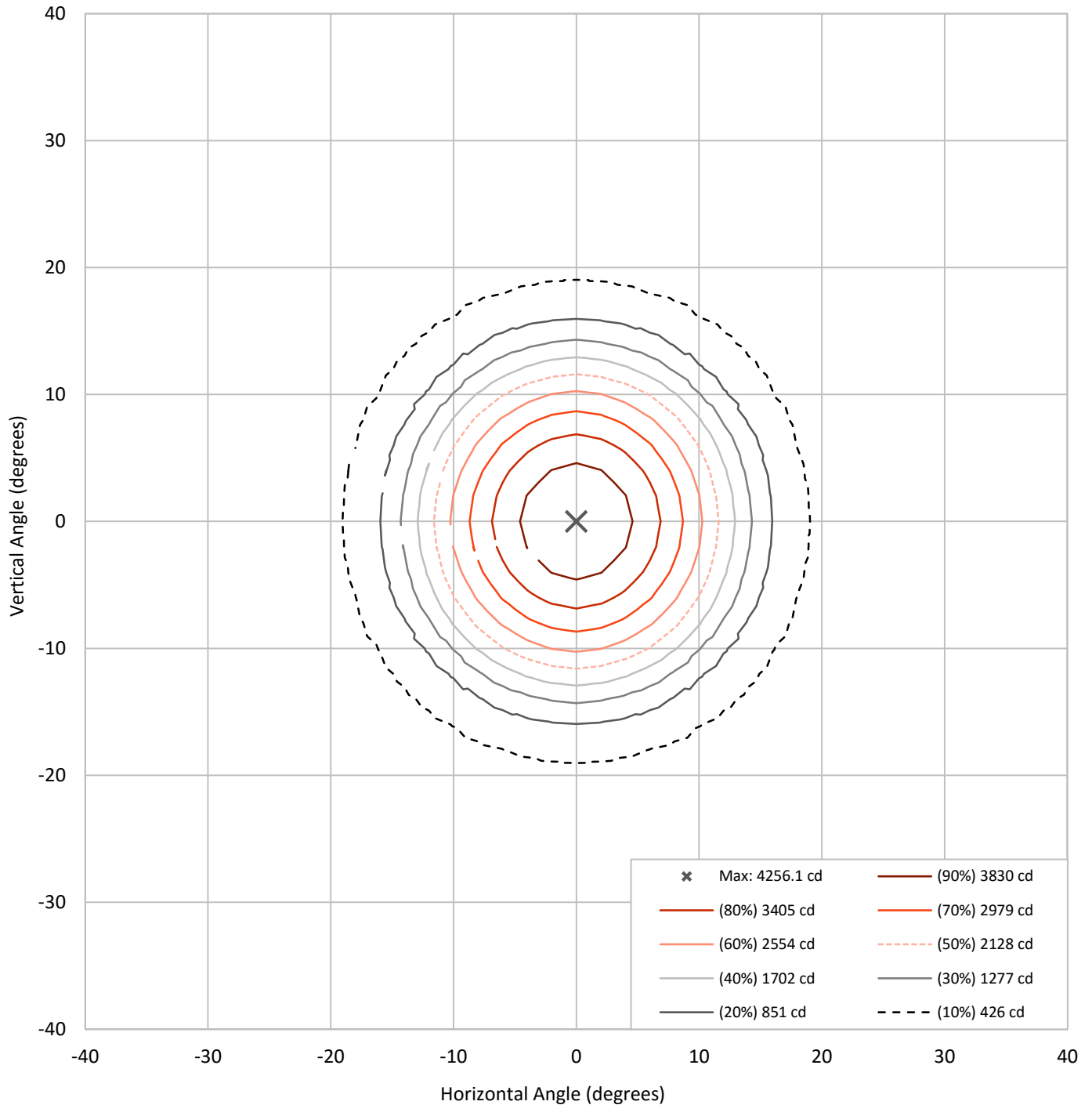
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	759.6 lumens	Max Intensity:	4256.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	76.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23.2°H x 23.2°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	398.4 lumens	Field Lumens:	614.7 lumens
Beam Efficiency:	52.5%	Field Efficiency:	80.9%
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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Iso-Candela Plot





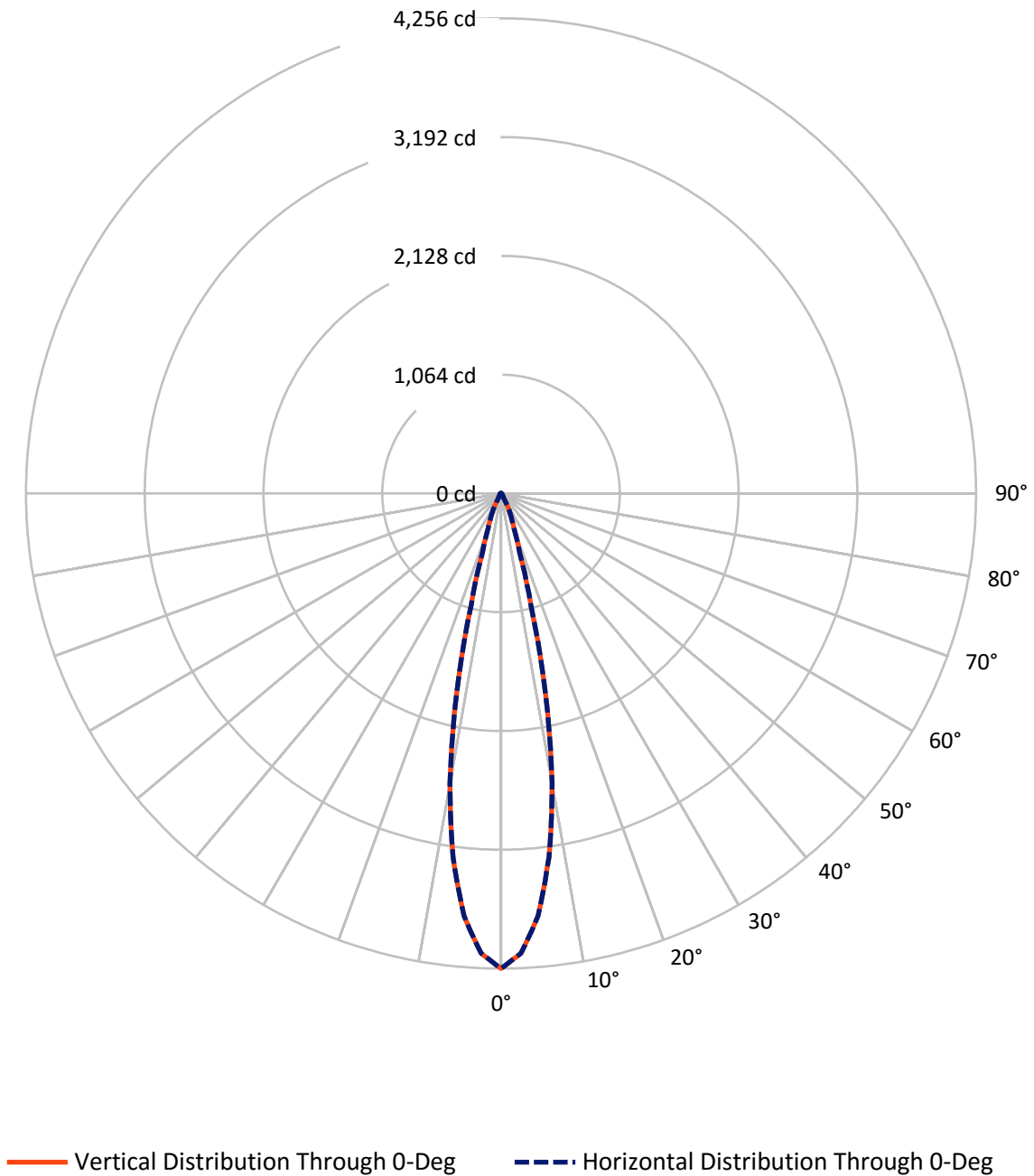
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Lumen Table

90																
80	0.0	0.1		0.2		0.3		0.4		0.3		0.2		0.1		0.0
70																
60	0.0	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	0.0
50		0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	
40	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1
30		0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.7	0.6	0.4	0.3	0.2	0.2	0.1	
20	0.1	0.1	0.2	0.3	0.4	0.7	2.4	4.9	4.9	2.4	0.7	0.4	0.3	0.2	0.1	0.1
10		0.1	0.2	0.3	0.5	2.2	10.2	30.0	30.0	10.2	2.2	0.5	0.3	0.2	0.1	
0	0.1	0.1	0.2	0.3	0.6	4.5	29.3	94.8	94.8	29.3	4.5	0.6	0.3	0.2	0.1	0.1
-10		0.1	0.2	0.3	0.6	4.5	29.3	94.8	94.8	29.3	4.5	0.6	0.3	0.2	0.1	
-20	0.1	0.1	0.2	0.3	0.5	2.2	10.2	30.0	30.0	10.2	2.2	0.5	0.3	0.2	0.1	0.1
-30		0.1	0.2	0.3	0.4	0.7	2.4	4.9	4.9	2.4	0.7	0.4	0.3	0.2	0.1	
-40	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.7	0.6	0.4	0.3	0.2	0.2	0.1	0.1
-50		0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	
-60	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0
-70		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	
-80																
-90	0.0	0.1		0.2		0.3		0.4		0.3		0.2		0.1		0.0

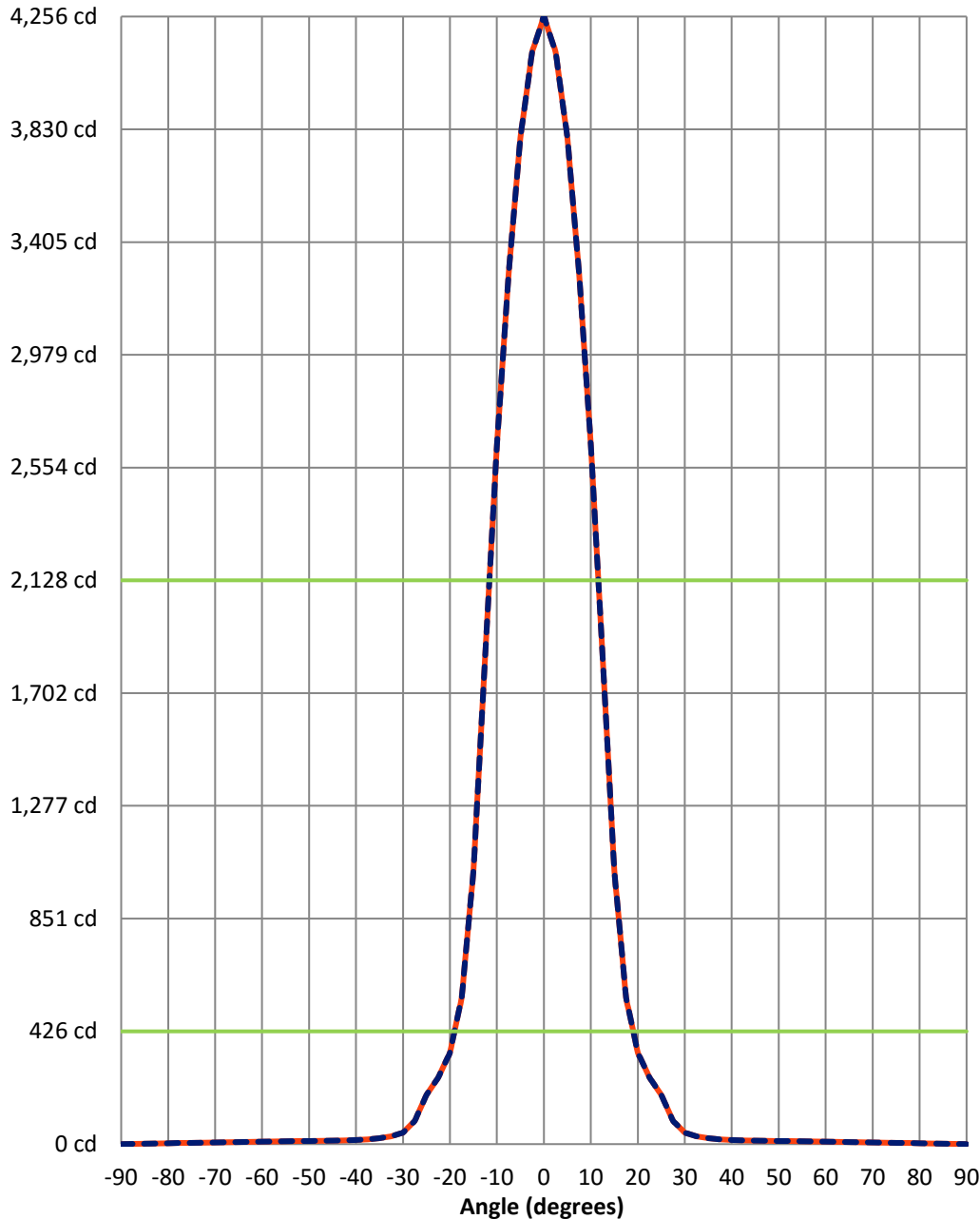
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-M-WT-L1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 23.2°
 V Angle: 23.2°
 Lumens: 398.4
 Efficiency: 52.5%

Field:
 H Angle: 38.1°
 V Angle: 38.1°
 Lumens: 614.7
 Efficiency: 80.9%

Spill:
 Lumens: 144.9
 Efficiency: 19.1%

— 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	0.9	1.0
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.9	1.1	1.2	1.3
77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.3	1.4	1.6
75°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.3	1.5	1.7	1.9
72.5°	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
70°	0.0	0.3	0.5	0.8	1.1	1.3	1.5	1.8	2.0	2.3	2.6
67.5°	0.0	0.3	0.6	0.9	1.2	1.4	1.7	2.0	2.3	2.6	2.9
65°	0.0	0.3	0.7	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.3
62.5°	0.0	0.4	0.7	1.1	1.4	1.7	2.1	2.5	2.8	3.2	3.9
60°	0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.7	4.4
57.5°	0.0	0.4	0.9	1.2	1.6	2.0	2.5	2.9	3.5	4.2	4.6
55°	0.0	0.5	0.9	1.3	1.7	2.2	2.6	3.1	3.9	4.6	4.6
52.5°	0.0	0.5	1.0	1.4	1.8	2.3	2.8	3.4	4.3	4.6	4.6
50°	0.0	0.5	1.0	1.4	2.0	2.5	3.0	3.8	4.6	4.6	4.8
47.5°	0.0	0.5	1.0	1.5	2.1	2.6	3.1	4.1	4.6	4.6	5.1
45°	0.0	0.6	1.1	1.6	2.2	2.7	3.4	4.5	4.6	4.8	5.4
42.5°	0.0	0.6	1.1	1.7	2.3	2.8	3.7	4.6	4.6	5.0	5.6
40°	0.0	0.6	1.2	1.7	2.3	3.0	4.0	4.6	4.7	5.3	5.8
37.5°	0.0	0.6	1.2	1.8	2.4	3.1	4.2	4.6	4.8	5.5	6.1
35°	0.0	0.7	1.2	1.9	2.5	3.2	4.4	4.6	5.0	5.6	6.3
32.5°	0.0	0.7	1.3	1.9	2.6	3.4	4.6	4.6	5.2	5.8	6.5
30°	0.0	0.7	1.3	2.0	2.7	3.6	4.6	4.6	5.3	6.0	6.7
27.5°	0.0	0.7	1.3	2.0	2.7	3.7	4.6	4.8	5.5	6.1	6.8
25°	0.0	0.7	1.4	2.1	2.8	3.9	4.6	4.9	5.6	6.3	7.0
22.5°	0.0	0.7	1.4	2.1	2.9	4.0	4.6	5.0	5.7	6.4	7.1
20°	0.0	0.8	1.4	2.2	2.9	4.1	4.6	5.1	5.8	6.5	7.3
17.5°	0.0	0.8	1.4	2.2	3.0	4.2	4.6	5.1	5.9	6.6	7.4
15°	0.0	0.8	1.5	2.2	3.0	4.3	4.6	5.2	6.0	6.7	7.4
12.5°	0.0	0.8	1.5	2.2	3.0	4.4	4.6	5.3	6.0	6.8	7.5
10°	0.0	0.8	1.5	2.3	3.1	4.5	4.6	5.3	6.1	6.9	7.6
7.5°	0.0	0.8	1.5	2.3	3.1	4.5	4.6	5.4	6.1	6.9	7.6
5°	0.0	0.8	1.5	2.3	3.1	4.6	4.6	5.4	6.2	7.0	7.7
2.5°	0.0	0.8	1.5	2.3	3.1	4.6	4.6	5.4	6.2	7.0	7.7
0°	0.0	0.8	1.5	2.3	3.1	4.6	4.6	5.4	6.2	7.0	7.7
-2.5°	0.0	0.8	1.5	2.3	3.1	4.6	4.6	5.4	6.2	7.0	7.7
-5°	0.0	0.8	1.5	2.3	3.1	4.6	4.6	5.4	6.2	7.0	7.7
-7.5°	0.0	0.8	1.5	2.3	3.1	4.5	4.6	5.4	6.1	6.9	7.6
-10°	0.0	0.8	1.5	2.3	3.1	4.5	4.6	5.3	6.1	6.9	7.6
-12.5°	0.0	0.8	1.5	2.2	3.0	4.4	4.6	5.3	6.0	6.8	7.5
-15°	0.0	0.8	1.5	2.2	3.0	4.3	4.6	5.2	6.0	6.7	7.4
-17.5°	0.0	0.8	1.4	2.2	3.0	4.2	4.6	5.1	5.9	6.6	7.4
-20°	0.0	0.8	1.4	2.2	2.9	4.1	4.6	5.1	5.8	6.5	7.3



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-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	1.4	2.1	2.9	4.0	4.6	5.0	5.7	6.4	7.1
-25°	0.0	0.7	1.4	2.1	2.8	3.9	4.6	4.9	5.6	6.3	7.0
-27.5°	0.0	0.7	1.3	2.0	2.7	3.7	4.6	4.8	5.5	6.1	6.8
-30°	0.0	0.7	1.3	2.0	2.7	3.6	4.6	4.6	5.3	6.0	6.7
-32.5°	0.0	0.7	1.3	1.9	2.6	3.4	4.6	4.6	5.2	5.8	6.5
-35°	0.0	0.7	1.2	1.9	2.5	3.2	4.4	4.6	5.0	5.6	6.3
-37.5°	0.0	0.6	1.2	1.8	2.4	3.1	4.2	4.6	4.8	5.5	6.1
-40°	0.0	0.6	1.2	1.7	2.3	3.0	4.0	4.6	4.7	5.3	5.8
-42.5°	0.0	0.6	1.1	1.7	2.3	2.8	3.7	4.6	4.6	5.0	5.6
-45°	0.0	0.6	1.1	1.6	2.2	2.7	3.4	4.5	4.6	4.8	5.4
-47.5°	0.0	0.5	1.0	1.5	2.1	2.6	3.1	4.1	4.6	4.6	5.1
-50°	0.0	0.5	1.0	1.4	2.0	2.5	3.0	3.8	4.6	4.6	4.8
-52.5°	0.0	0.5	1.0	1.4	1.8	2.3	2.8	3.4	4.3	4.6	4.6
-55°	0.0	0.5	0.9	1.3	1.7	2.2	2.6	3.1	3.9	4.6	4.6
-57.5°	0.0	0.4	0.9	1.2	1.6	2.0	2.5	2.9	3.5	4.2	4.6
-60°	0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.7	4.4
-62.5°	0.0	0.4	0.7	1.1	1.4	1.7	2.1	2.5	2.8	3.2	3.9
-65°	0.0	0.3	0.7	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.3
-67.5°	0.0	0.3	0.6	0.9	1.2	1.4	1.7	2.0	2.3	2.6	2.9
-70°	0.0	0.3	0.5	0.8	1.1	1.3	1.5	1.8	2.0	2.3	2.6
-72.5°	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
-75°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.3	1.5	1.7	1.9
-77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.3	1.4	1.6
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.9	1.1	1.2	1.3
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
-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	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2
82.5°	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8
80°	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.3	2.4
77.5°	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.7	2.8	3.0	3.1
75°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.4	3.7	4.0	4.2
72.5°	2.5	2.7	2.9	3.1	3.4	3.8	4.1	4.5	4.6	4.6	4.6
70°	2.8	3.1	3.5	3.9	4.3	4.6	4.6	4.6	4.6	4.7	4.8
67.5°	3.2	3.7	4.2	4.6	4.6	4.6	4.6	4.8	5.0	5.3	5.5
65°	3.9	4.4	4.6	4.6	4.6	4.8	5.1	5.4	5.6	5.8	6.1
62.5°	4.5	4.6	4.6	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7
60°	4.6	4.6	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2
57.5°	4.6	4.8	5.2	5.5	5.9	6.3	6.6	6.9	7.2	7.5	7.8
55°	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.7	8.0	8.4
52.5°	5.0	5.5	5.9	6.3	6.8	7.1	7.5	7.9	8.2	8.6	8.9
50°	5.3	5.8	6.3	6.7	7.1	7.5	7.9	8.4	8.8	9.1	9.5
47.5°	5.6	6.1	6.6	7.1	7.5	7.9	8.4	8.8	9.3	9.6	10.0
45°	5.9	6.4	6.9	7.4	7.9	8.4	8.8	9.3	9.7	10.1	10.5
42.5°	6.2	6.7	7.2	7.7	8.2	8.8	9.3	9.7	10.1	10.6	11.1
40°	6.4	7.0	7.5	8.0	8.6	9.1	9.6	10.1	10.6	11.1	11.6
37.5°	6.7	7.2	7.8	8.4	8.9	9.5	10.0	10.5	11.1	11.6	11.6
35°	6.9	7.5	8.1	8.7	9.3	9.8	10.4	10.9	11.5	11.6	11.8
32.5°	7.1	7.7	8.3	9.0	9.5	10.1	10.7	11.3	11.6	11.7	12.2
30°	7.3	7.9	8.6	9.2	9.8	10.4	11.1	11.6	11.6	12.1	12.7
27.5°	7.5	8.1	8.8	9.5	10.1	10.7	11.4	11.6	11.9	12.5	13.0
25°	7.6	8.3	9.0	9.7	10.3	11.0	11.6	11.6	12.2	12.8	13.4
22.5°	7.8	8.5	9.2	9.9	10.6	11.3	11.6	11.9	12.5	13.1	13.8
20°	7.9	8.7	9.4	10.0	10.8	11.5	11.6	12.1	12.8	13.4	14.3
17.5°	8.1	8.8	9.5	10.2	11.0	11.6	11.6	12.4	13.0	13.7	15.0
15°	8.2	8.9	9.7	10.4	11.1	11.6	11.8	12.6	13.2	14.0	15.5
12.5°	8.3	9.1	9.8	10.5	11.3	11.6	12.0	12.7	13.4	14.5	16.2
10°	8.4	9.1	9.8	10.6	11.4	11.6	12.1	12.9	13.6	14.8	16.8
7.5°	8.4	9.2	9.9	10.7	11.5	11.6	12.3	13.0	13.7	15.1	17.2
5°	8.5	9.3	10.0	10.8	11.5	11.6	12.3	13.0	13.8	15.3	17.5
2.5°	8.5	9.3	10.0	10.8	11.6	11.6	12.4	13.1	13.9	15.5	17.7
0°	8.5	9.3	10.0	10.8	11.6	11.6	12.4	13.1	13.9	15.5	17.7
-2.5°	8.5	9.3	10.0	10.8	11.6	11.6	12.4	13.1	13.9	15.5	17.7
-5°	8.5	9.3	10.0	10.8	11.5	11.6	12.3	13.0	13.8	15.3	17.5
-7.5°	8.4	9.2	9.9	10.7	11.5	11.6	12.3	13.0	13.7	15.1	17.2
-10°	8.4	9.1	9.8	10.6	11.4	11.6	12.1	12.9	13.6	14.8	16.8
-12.5°	8.3	9.1	9.8	10.5	11.3	11.6	12.0	12.7	13.4	14.5	16.2
-15°	8.2	8.9	9.7	10.4	11.1	11.6	11.8	12.6	13.2	14.0	15.5
-17.5°	8.1	8.8	9.5	10.2	11.0	11.6	11.6	12.4	13.0	13.7	15.0
-20°	7.9	8.7	9.4	10.0	10.8	11.5	11.6	12.1	12.8	13.4	14.3



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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°	7.8	8.5	9.2	9.9	10.6	11.3	11.6	11.9	12.5	13.1	13.8
-25°	7.6	8.3	9.0	9.7	10.3	11.0	11.6	11.6	12.2	12.8	13.4
-27.5°	7.5	8.1	8.8	9.5	10.1	10.7	11.4	11.6	11.9	12.5	13.0
-30°	7.3	7.9	8.6	9.2	9.8	10.4	11.1	11.6	11.6	12.1	12.7
-32.5°	7.1	7.7	8.3	9.0	9.5	10.1	10.7	11.3	11.6	11.7	12.2
-35°	6.9	7.5	8.1	8.7	9.3	9.8	10.4	10.9	11.5	11.6	11.8
-37.5°	6.7	7.2	7.8	8.4	8.9	9.5	10.0	10.5	11.1	11.6	11.6
-40°	6.4	7.0	7.5	8.0	8.6	9.1	9.6	10.1	10.6	11.1	11.6
-42.5°	6.2	6.7	7.2	7.7	8.2	8.8	9.3	9.7	10.1	10.6	11.1
-45°	5.9	6.4	6.9	7.4	7.9	8.4	8.8	9.3	9.7	10.1	10.5
-47.5°	5.6	6.1	6.6	7.1	7.5	7.9	8.4	8.8	9.3	9.6	10.0
-50°	5.3	5.8	6.3	6.7	7.1	7.5	7.9	8.4	8.8	9.1	9.5
-52.5°	5.0	5.5	5.9	6.3	6.8	7.1	7.5	7.9	8.2	8.6	8.9
-55°	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.7	8.0	8.4
-57.5°	4.6	4.8	5.2	5.5	5.9	6.3	6.6	6.9	7.2	7.5	7.8
-60°	4.6	4.6	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2
-62.5°	4.5	4.6	4.6	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7
-65°	3.9	4.4	4.6	4.6	4.6	4.8	5.1	5.4	5.6	5.8	6.1
-67.5°	3.2	3.7	4.2	4.6	4.6	4.6	4.6	4.8	5.0	5.3	5.5
-70°	2.8	3.1	3.5	3.9	4.3	4.6	4.6	4.6	4.6	4.7	4.8
-72.5°	2.5	2.7	2.9	3.1	3.4	3.8	4.1	4.5	4.6	4.6	4.6
-75°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.4	3.7	4.0	4.2
-77.5°	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.7	2.8	3.0	3.1
-80°	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.3	2.4
-82.5°	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8
-85°	0.7	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2
-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°	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5
82.5°	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.3
80°	2.5	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.0	3.1
77.5°	3.2	3.4	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5
75°	4.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	4.6	4.6	4.6	4.8	4.9	5.0	5.1	5.1	5.2	5.3	5.3
70°	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1
67.5°	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9
65°	6.3	6.5	6.7	6.8	7.0	7.1	7.3	7.4	7.4	7.5	7.6
62.5°	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.3	8.4
60°	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.8	8.9	9.1	9.1
57.5°	8.1	8.3	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.8
55°	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2	10.4	10.5	10.6
52.5°	9.3	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4
50°	9.8	10.1	10.4	10.7	11.0	11.3	11.5	11.6	11.6	11.6	11.6
47.5°	10.4	10.7	11.1	11.4	11.6	11.6	11.6	11.6	11.8	12.0	12.1
45°	10.9	11.3	11.6	11.6	11.6	11.9	12.1	12.4	12.6	12.7	12.9
42.5°	11.5	11.6	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6
40°	11.6	11.7	12.1	12.5	12.8	13.1	13.4	13.7	14.0	14.5	14.8
37.5°	11.8	12.2	12.7	13.0	13.4	13.8	14.3	15.0	15.5	16.2	16.8
35°	12.3	12.7	13.2	13.6	14.2	15.0	15.8	16.8	17.6	18.9	20.1
32.5°	12.7	13.2	13.7	14.5	15.4	16.6	17.7	19.7	21.6	23.6	25.6
30°	13.2	13.7	14.6	15.7	17.1	19.0	21.4	24.3	27.4	30.7	35.1
27.5°	13.6	14.5	15.7	17.2	19.6	22.5	26.5	30.9	37.5	43.3	51.3
25°	14.2	15.4	17.1	19.6	23.0	27.6	34.4	42.2	54.2	78.3	113.6
22.5°	15.0	16.6	19.0	22.5	27.6	35.5	45.6	66.3	112.9	164.3	198.1
20°	15.8	17.7	21.4	26.5	34.4	45.6	70.6	134.3	190.3	226.2	259.8
17.5°	16.8	19.7	24.3	30.9	42.2	66.3	134.3	197.1	240.7	292.9	342.4
15°	17.6	21.6	27.4	37.5	54.2	112.9	190.3	240.7	304.2	379.5	495.9
12.5°	18.9	23.6	30.7	43.3	78.3	164.3	226.2	292.9	379.5	540.0	801.2
10°	20.1	25.6	35.1	51.3	113.6	198.1	259.8	342.4	495.9	801.2	1300.1
7.5°	21.1	27.3	38.6	62.7	147.7	220.7	296.1	406.2	662.2	1168.1	1849.7
5°	21.8	28.4	41.2	73.2	168.6	237.4	323.0	476.1	841.0	1519.1	2285.4
2.5°	22.3	29.2	42.8	84.1	181.2	247.6	339.7	531.9	983.5	1758.6	2547.2
0°	22.4	29.4	43.3	87.7	185.4	251.1	345.3	553.2	1032.2	1841.9	2637.6
-2.5°	22.3	29.2	42.8	84.1	181.2	247.6	339.7	531.9	983.5	1758.6	2547.2
-5°	21.8	28.4	41.2	73.2	168.6	237.4	323.0	476.1	841.0	1519.1	2285.4
-7.5°	21.1	27.3	38.6	62.7	147.7	220.7	296.1	406.2	662.2	1168.1	1849.7
-10°	20.1	25.6	35.1	51.3	113.6	198.1	259.8	342.4	495.9	801.2	1300.1
-12.5°	18.9	23.6	30.7	43.3	78.3	164.3	226.2	292.9	379.5	540.0	801.2
-15°	17.6	21.6	27.4	37.5	54.2	112.9	190.3	240.7	304.2	379.5	495.9
-17.5°	16.8	19.7	24.3	30.9	42.2	66.3	134.3	197.1	240.7	292.9	342.4
-20°	15.8	17.7	21.4	26.5	34.4	45.6	70.6	134.3	190.3	226.2	259.8



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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°	15.0	16.6	19.0	22.5	27.6	35.5	45.6	66.3	112.9	164.3	198.1
-25°	14.2	15.4	17.1	19.6	23.0	27.6	34.4	42.2	54.2	78.3	113.6
-27.5°	13.6	14.5	15.7	17.2	19.6	22.5	26.5	30.9	37.5	43.3	51.3
-30°	13.2	13.7	14.6	15.7	17.1	19.0	21.4	24.3	27.4	30.7	35.1
-32.5°	12.7	13.2	13.7	14.5	15.4	16.6	17.7	19.7	21.6	23.6	25.6
-35°	12.3	12.7	13.2	13.6	14.2	15.0	15.8	16.8	17.6	18.9	20.1
-37.5°	11.8	12.2	12.7	13.0	13.4	13.8	14.3	15.0	15.5	16.2	16.8
-40°	11.6	11.7	12.1	12.5	12.8	13.1	13.4	13.7	14.0	14.5	14.8
-42.5°	11.5	11.6	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6
-45°	10.9	11.3	11.6	11.6	11.6	11.9	12.1	12.4	12.6	12.7	12.9
-47.5°	10.4	10.7	11.1	11.4	11.6	11.6	11.6	11.6	11.8	12.0	12.1
-50°	9.8	10.1	10.4	10.7	11.0	11.3	11.5	11.6	11.6	11.6	11.6
-52.5°	9.3	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4
-55°	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2	10.4	10.5	10.6
-57.5°	8.1	8.3	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.8
-60°	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.8	8.9	9.1	9.1
-62.5°	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.3	8.4
-65°	6.3	6.5	6.7	6.8	7.0	7.1	7.3	7.4	7.4	7.5	7.6
-67.5°	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9
-70°	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1
-72.5°	4.6	4.6	4.6	4.8	4.9	5.0	5.1	5.1	5.2	5.3	5.3
-75°	4.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
-77.5°	3.2	3.4	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5
-80°	2.5	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.0	3.1
-82.5°	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.3
-85°	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5
-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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
77.5°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3	4.2
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1
70°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	6.0	5.9
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°	7.6	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.4
62.5°	8.4	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.1
60°	9.2	9.3	9.3	9.3	9.3	9.3	9.2	9.1	9.1	8.9	8.8
57.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.6	10.5	10.4	10.2
52.5°	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.4	11.3	11.1	11.0
50°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
47.5°	12.3	12.3	12.4	12.4	12.4	12.3	12.3	12.1	12.0	11.8	11.6
45°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	12.9	12.7	12.6	12.4
42.5°	13.7	13.8	13.9	13.9	13.9	13.8	13.7	13.6	13.4	13.2	13.0
40°	15.1	15.3	15.5	15.5	15.5	15.3	15.1	14.8	14.5	14.0	13.7
37.5°	17.2	17.5	17.7	17.8	17.7	17.5	17.2	16.8	16.2	15.5	15.0
35°	21.1	21.8	22.3	22.4	22.3	21.8	21.1	20.1	18.9	17.6	16.8
32.5°	27.3	28.4	29.2	29.4	29.2	28.4	27.3	25.6	23.6	21.6	19.7
30°	38.6	41.2	42.8	43.3	42.8	41.2	38.6	35.1	30.7	27.4	24.3
27.5°	62.7	73.2	84.1	87.7	84.1	73.2	62.7	51.3	43.3	37.5	30.9
25°	147.7	168.6	181.2	185.4	181.2	168.6	147.7	113.6	78.3	54.2	42.2
22.5°	220.7	237.4	247.6	251.1	247.6	237.4	220.7	198.1	164.3	112.9	66.3
20°	296.1	323.0	339.7	345.3	339.7	323.0	296.1	259.8	226.2	190.3	134.3
17.5°	406.2	476.1	531.9	553.2	531.9	476.1	406.2	342.4	292.9	240.7	197.1
15°	662.2	841.0	983.5	1032.2	983.5	841.0	662.2	495.9	379.5	304.2	240.7
12.5°	1168.1	1519.1	1758.6	1841.9	1758.6	1519.1	1168.1	801.2	540.0	379.5	292.9
10°	1849.7	2285.4	2547.2	2637.6	2547.2	2285.4	1849.7	1300.1	801.2	495.9	342.4
7.5°	2462.1	2909.5	3191.0	3285.8	3191.0	2909.5	2462.1	1849.7	1168.1	662.2	406.2
5°	2909.5	3387.6	3689.5	3798.7	3689.5	3387.6	2909.5	2285.4	1519.1	841.0	476.1
2.5°	3191.0	3689.5	4012.7	4121.7	4012.7	3689.5	3191.0	2547.2	1758.6	983.5	531.9
0°	3285.8	3798.7	4121.7	4256.1	4121.7	3798.7	3285.8	2637.6	1841.9	1032.2	553.2
-2.5°	3191.0	3689.5	4012.7	4121.7	4012.7	3689.5	3191.0	2547.2	1758.6	983.5	531.9
-5°	2909.5	3387.6	3689.5	3798.7	3689.5	3387.6	2909.5	2285.4	1519.1	841.0	476.1
-7.5°	2462.1	2909.5	3191.0	3285.8	3191.0	2909.5	2462.1	1849.7	1168.1	662.2	406.2
-10°	1849.7	2285.4	2547.2	2637.6	2547.2	2285.4	1849.7	1300.1	801.2	495.9	342.4
-12.5°	1168.1	1519.1	1758.6	1841.9	1758.6	1519.1	1168.1	801.2	540.0	379.5	292.9
-15°	662.2	841.0	983.5	1032.2	983.5	841.0	662.2	495.9	379.5	304.2	240.7
-17.5°	406.2	476.1	531.9	553.2	531.9	476.1	406.2	342.4	292.9	240.7	197.1
-20°	296.1	323.0	339.7	345.3	339.7	323.0	296.1	259.8	226.2	190.3	134.3



REPORT NUMBER: P220318 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-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°	220.7	237.4	247.6	251.1	247.6	237.4	220.7	198.1	164.3	112.9	66.3
-25°	147.7	168.6	181.2	185.4	181.2	168.6	147.7	113.6	78.3	54.2	42.2
-27.5°	62.7	73.2	84.1	87.7	84.1	73.2	62.7	51.3	43.3	37.5	30.9
-30°	38.6	41.2	42.8	43.3	42.8	41.2	38.6	35.1	30.7	27.4	24.3
-32.5°	27.3	28.4	29.2	29.4	29.2	28.4	27.3	25.6	23.6	21.6	19.7
-35°	21.1	21.8	22.3	22.4	22.3	21.8	21.1	20.1	18.9	17.6	16.8
-37.5°	17.2	17.5	17.7	17.8	17.7	17.5	17.2	16.8	16.2	15.5	15.0
-40°	15.1	15.3	15.5	15.5	15.5	15.3	15.1	14.8	14.5	14.0	13.7
-42.5°	13.7	13.8	13.9	13.9	13.9	13.8	13.7	13.6	13.4	13.2	13.0
-45°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	12.9	12.7	12.6	12.4
-47.5°	12.3	12.3	12.4	12.4	12.4	12.3	12.3	12.1	12.0	11.8	11.6
-50°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
-52.5°	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.4	11.3	11.1	11.0
-55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.6	10.5	10.4	10.2
-57.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
-60°	9.2	9.3	9.3	9.3	9.3	9.3	9.2	9.1	9.1	8.9	8.8
-62.5°	8.4	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.1
-65°	7.6	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.4
-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°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	6.0	5.9
-72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1
-75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
-77.5°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3	4.2
-80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
-82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
-85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
-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



REPORT NUMBER: P220318 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3097-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°	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1
82.5°	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.6
80°	2.9	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.3	2.3	2.2
77.5°	4.1	4.0	3.9	3.7	3.6	3.4	3.2	3.1	3.0	2.8	2.7
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.4	4.2	4.0	3.7	3.4
72.5°	5.1	5.0	4.9	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.5
70°	5.8	5.7	5.6	5.5	5.3	5.2	5.0	4.8	4.7	4.6	4.6
67.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.6	5.5	5.3	5.0	4.8
65°	7.3	7.1	7.0	6.8	6.7	6.5	6.3	6.1	5.8	5.6	5.4
62.5°	7.9	7.8	7.6	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9
60°	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.4
57.5°	9.4	9.2	9.0	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9
55°	10.0	9.9	9.7	9.5	9.2	9.0	8.7	8.4	8.0	7.7	7.4
52.5°	10.8	10.6	10.3	10.1	9.8	9.5	9.3	8.9	8.6	8.2	7.9
50°	11.5	11.3	11.0	10.7	10.4	10.1	9.8	9.5	9.1	8.8	8.4
47.5°	11.6	11.6	11.6	11.4	11.1	10.7	10.4	10.0	9.6	9.3	8.8
45°	12.1	11.9	11.6	11.6	11.6	11.3	10.9	10.5	10.1	9.7	9.3
42.5°	12.8	12.5	12.2	11.9	11.6	11.6	11.5	11.1	10.6	10.1	9.7
40°	13.4	13.1	12.8	12.5	12.1	11.7	11.6	11.6	11.1	10.6	10.1
37.5°	14.3	13.8	13.4	13.0	12.7	12.2	11.8	11.6	11.6	11.1	10.5
35°	15.8	15.0	14.2	13.6	13.2	12.7	12.3	11.8	11.6	11.5	10.9
32.5°	17.7	16.6	15.4	14.5	13.7	13.2	12.7	12.2	11.7	11.6	11.3
30°	21.4	19.0	17.1	15.7	14.6	13.7	13.2	12.7	12.1	11.6	11.6
27.5°	26.5	22.5	19.6	17.2	15.7	14.5	13.6	13.0	12.5	11.9	11.6
25°	34.4	27.6	23.0	19.6	17.1	15.4	14.2	13.4	12.8	12.2	11.6
22.5°	45.6	35.5	27.6	22.5	19.0	16.6	15.0	13.8	13.1	12.5	11.9
20°	70.6	45.6	34.4	26.5	21.4	17.7	15.8	14.3	13.4	12.8	12.1
17.5°	134.3	66.3	42.2	30.9	24.3	19.7	16.8	15.0	13.7	13.0	12.4
15°	190.3	112.9	54.2	37.5	27.4	21.6	17.6	15.5	14.0	13.2	12.6
12.5°	226.2	164.3	78.3	43.3	30.7	23.6	18.9	16.2	14.5	13.4	12.7
10°	259.8	198.1	113.6	51.3	35.1	25.6	20.1	16.8	14.8	13.6	12.9
7.5°	296.1	220.7	147.7	62.7	38.6	27.3	21.1	17.2	15.1	13.7	13.0
5°	323.0	237.4	168.6	73.2	41.2	28.4	21.8	17.5	15.3	13.8	13.0
2.5°	339.7	247.6	181.2	84.1	42.8	29.2	22.3	17.7	15.5	13.9	13.1
0°	345.3	251.1	185.4	87.7	43.3	29.4	22.4	17.8	15.5	13.9	13.1
-2.5°	339.7	247.6	181.2	84.1	42.8	29.2	22.3	17.7	15.5	13.9	13.1
-5°	323.0	237.4	168.6	73.2	41.2	28.4	21.8	17.5	15.3	13.8	13.0
-7.5°	296.1	220.7	147.7	62.7	38.6	27.3	21.1	17.2	15.1	13.7	13.0
-10°	259.8	198.1	113.6	51.3	35.1	25.6	20.1	16.8	14.8	13.6	12.9
-12.5°	226.2	164.3	78.3	43.3	30.7	23.6	18.9	16.2	14.5	13.4	12.7
-15°	190.3	112.9	54.2	37.5	27.4	21.6	17.6	15.5	14.0	13.2	12.6
-17.5°	134.3	66.3	42.2	30.9	24.3	19.7	16.8	15.0	13.7	13.0	12.4
-20°	70.6	45.6	34.4	26.5	21.4	17.7	15.8	14.3	13.4	12.8	12.1



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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°	45.6	35.5	27.6	22.5	19.0	16.6	15.0	13.8	13.1	12.5	11.9
-25°	34.4	27.6	23.0	19.6	17.1	15.4	14.2	13.4	12.8	12.2	11.6
-27.5°	26.5	22.5	19.6	17.2	15.7	14.5	13.6	13.0	12.5	11.9	11.6
-30°	21.4	19.0	17.1	15.7	14.6	13.7	13.2	12.7	12.1	11.6	11.6
-32.5°	17.7	16.6	15.4	14.5	13.7	13.2	12.7	12.2	11.7	11.6	11.3
-35°	15.8	15.0	14.2	13.6	13.2	12.7	12.3	11.8	11.6	11.5	10.9
-37.5°	14.3	13.8	13.4	13.0	12.7	12.2	11.8	11.6	11.6	11.1	10.5
-40°	13.4	13.1	12.8	12.5	12.1	11.7	11.6	11.6	11.1	10.6	10.1
-42.5°	12.8	12.5	12.2	11.9	11.6	11.6	11.5	11.1	10.6	10.1	9.7
-45°	12.1	11.9	11.6	11.6	11.6	11.3	10.9	10.5	10.1	9.7	9.3
-47.5°	11.6	11.6	11.6	11.4	11.1	10.7	10.4	10.0	9.6	9.3	8.8
-50°	11.5	11.3	11.0	10.7	10.4	10.1	9.8	9.5	9.1	8.8	8.4
-52.5°	10.8	10.6	10.3	10.1	9.8	9.5	9.3	8.9	8.6	8.2	7.9
-55°	10.0	9.9	9.7	9.5	9.2	9.0	8.7	8.4	8.0	7.7	7.4
-57.5°	9.4	9.2	9.0	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9
-60°	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.4
-62.5°	7.9	7.8	7.6	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9
-65°	7.3	7.1	7.0	6.8	6.7	6.5	6.3	6.1	5.8	5.6	5.4
-67.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.6	5.5	5.3	5.0	4.8
-70°	5.8	5.7	5.6	5.5	5.3	5.2	5.0	4.8	4.7	4.6	4.6
-72.5°	5.1	5.0	4.9	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.5
-75°	4.6	4.6	4.6	4.6	4.6	4.6	4.4	4.2	4.0	3.7	3.4
-77.5°	4.1	4.0	3.9	3.7	3.6	3.4	3.2	3.1	3.0	2.8	2.7
-80°	2.9	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.3	2.3	2.2
-82.5°	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.6
-85°	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1
-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°	1.0	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	1.5	1.4	1.4	1.3	1.2	1.1	1.1	1.0	0.9	0.8	0.7
80°	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9
77.5°	2.6	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.4	1.3	1.1
75°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.7	1.5	1.3
72.5°	4.1	3.8	3.4	3.1	2.9	2.7	2.5	2.2	2.0	1.8	1.6
70°	4.6	4.6	4.3	3.9	3.5	3.1	2.8	2.6	2.3	2.0	1.8
67.5°	4.6	4.6	4.6	4.6	4.2	3.7	3.2	2.9	2.6	2.3	2.0
65°	5.1	4.8	4.6	4.6	4.6	4.4	3.9	3.3	2.9	2.6	2.2
62.5°	5.6	5.3	5.0	4.7	4.6	4.6	4.5	3.9	3.2	2.8	2.5
60°	6.1	5.8	5.5	5.1	4.8	4.6	4.6	4.4	3.7	3.1	2.7
57.5°	6.6	6.3	5.9	5.5	5.2	4.8	4.6	4.6	4.2	3.5	2.9
55°	7.1	6.7	6.3	5.9	5.5	5.1	4.7	4.6	4.6	3.9	3.1
52.5°	7.5	7.1	6.8	6.3	5.9	5.5	5.0	4.6	4.6	4.3	3.4
50°	7.9	7.5	7.1	6.7	6.3	5.8	5.3	4.8	4.6	4.6	3.8
47.5°	8.4	7.9	7.5	7.1	6.6	6.1	5.6	5.1	4.6	4.6	4.1
45°	8.8	8.4	7.9	7.4	6.9	6.4	5.9	5.4	4.8	4.6	4.5
42.5°	9.3	8.8	8.2	7.7	7.2	6.7	6.2	5.6	5.0	4.6	4.6
40°	9.6	9.1	8.6	8.0	7.5	7.0	6.4	5.8	5.3	4.7	4.6
37.5°	10.0	9.5	8.9	8.4	7.8	7.2	6.7	6.1	5.5	4.8	4.6
35°	10.4	9.8	9.3	8.7	8.1	7.5	6.9	6.3	5.6	5.0	4.6
32.5°	10.7	10.1	9.5	9.0	8.3	7.7	7.1	6.5	5.8	5.2	4.6
30°	11.1	10.4	9.8	9.2	8.6	7.9	7.3	6.7	6.0	5.3	4.6
27.5°	11.4	10.7	10.1	9.5	8.8	8.1	7.5	6.8	6.1	5.5	4.8
25°	11.6	11.0	10.3	9.7	9.0	8.3	7.6	7.0	6.3	5.6	4.9
22.5°	11.6	11.3	10.6	9.9	9.2	8.5	7.8	7.1	6.4	5.7	5.0
20°	11.6	11.5	10.8	10.0	9.4	8.7	7.9	7.3	6.5	5.8	5.1
17.5°	11.6	11.6	11.0	10.2	9.5	8.8	8.1	7.4	6.6	5.9	5.1
15°	11.8	11.6	11.1	10.4	9.7	8.9	8.2	7.4	6.7	6.0	5.2
12.5°	12.0	11.6	11.3	10.5	9.8	9.1	8.3	7.5	6.8	6.0	5.3
10°	12.1	11.6	11.4	10.6	9.8	9.1	8.4	7.6	6.9	6.1	5.3
7.5°	12.3	11.6	11.5	10.7	9.9	9.2	8.4	7.6	6.9	6.1	5.4
5°	12.3	11.6	11.5	10.8	10.0	9.3	8.5	7.7	7.0	6.2	5.4
2.5°	12.4	11.6	11.6	10.8	10.0	9.3	8.5	7.7	7.0	6.2	5.4
0°	12.4	11.6	11.6	10.8	10.0	9.3	8.5	7.7	7.0	6.2	5.4
-2.5°	12.4	11.6	11.6	10.8	10.0	9.3	8.5	7.7	7.0	6.2	5.4
-5°	12.3	11.6	11.5	10.8	10.0	9.3	8.5	7.7	7.0	6.2	5.4
-7.5°	12.3	11.6	11.5	10.7	9.9	9.2	8.4	7.6	6.9	6.1	5.4
-10°	12.1	11.6	11.4	10.6	9.8	9.1	8.4	7.6	6.9	6.1	5.3
-12.5°	12.0	11.6	11.3	10.5	9.8	9.1	8.3	7.5	6.8	6.0	5.3
-15°	11.8	11.6	11.1	10.4	9.7	8.9	8.2	7.4	6.7	6.0	5.2
-17.5°	11.6	11.6	11.0	10.2	9.5	8.8	8.1	7.4	6.6	5.9	5.1
-20°	11.6	11.5	10.8	10.0	9.4	8.7	7.9	7.3	6.5	5.8	5.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	11.6	11.3	10.6	9.9	9.2	8.5	7.8	7.1	6.4	5.7	5.0
-25°	11.6	11.0	10.3	9.7	9.0	8.3	7.6	7.0	6.3	5.6	4.9
-27.5°	11.4	10.7	10.1	9.5	8.8	8.1	7.5	6.8	6.1	5.5	4.8
-30°	11.1	10.4	9.8	9.2	8.6	7.9	7.3	6.7	6.0	5.3	4.6
-32.5°	10.7	10.1	9.5	9.0	8.3	7.7	7.1	6.5	5.8	5.2	4.6
-35°	10.4	9.8	9.3	8.7	8.1	7.5	6.9	6.3	5.6	5.0	4.6
-37.5°	10.0	9.5	8.9	8.4	7.8	7.2	6.7	6.1	5.5	4.8	4.6
-40°	9.6	9.1	8.6	8.0	7.5	7.0	6.4	5.8	5.3	4.7	4.6
-42.5°	9.3	8.8	8.2	7.7	7.2	6.7	6.2	5.6	5.0	4.6	4.6
-45°	8.8	8.4	7.9	7.4	6.9	6.4	5.9	5.4	4.8	4.6	4.5
-47.5°	8.4	7.9	7.5	7.1	6.6	6.1	5.6	5.1	4.6	4.6	4.1
-50°	7.9	7.5	7.1	6.7	6.3	5.8	5.3	4.8	4.6	4.6	3.8
-52.5°	7.5	7.1	6.8	6.3	5.9	5.5	5.0	4.6	4.6	4.3	3.4
-55°	7.1	6.7	6.3	5.9	5.5	5.1	4.7	4.6	4.6	3.9	3.1
-57.5°	6.6	6.3	5.9	5.5	5.2	4.8	4.6	4.6	4.2	3.5	2.9
-60°	6.1	5.8	5.5	5.1	4.8	4.6	4.6	4.4	3.7	3.1	2.7
-62.5°	5.6	5.3	5.0	4.7	4.6	4.6	4.5	3.9	3.2	2.8	2.5
-65°	5.1	4.8	4.6	4.6	4.6	4.4	3.9	3.3	2.9	2.6	2.2
-67.5°	4.6	4.6	4.6	4.6	4.2	3.7	3.2	2.9	2.6	2.3	2.0
-70°	4.6	4.6	4.3	3.9	3.5	3.1	2.8	2.6	2.3	2.0	1.8
-72.5°	4.1	3.8	3.4	3.1	2.9	2.7	2.5	2.2	2.0	1.8	1.6
-75°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.7	1.5	1.3
-77.5°	2.6	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.4	1.3	1.1
-80°	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9
-82.5°	1.5	1.4	1.4	1.3	1.2	1.1	1.1	1.0	0.9	0.8	0.7
-85°	1.0	1.0	1.0	0.9	0.9	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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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°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
75°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
72.5°	1.3	1.1	0.9	0.7	0.5	0.2	0.0
70°	1.5	1.3	1.1	0.8	0.5	0.3	0.0
67.5°	1.7	1.4	1.2	0.9	0.6	0.3	0.0
65°	1.9	1.6	1.3	1.0	0.7	0.3	0.0
62.5°	2.1	1.7	1.4	1.1	0.7	0.4	0.0
60°	2.3	1.9	1.5	1.1	0.8	0.4	0.0
57.5°	2.5	2.0	1.6	1.2	0.9	0.4	0.0
55°	2.6	2.2	1.7	1.3	0.9	0.5	0.0
52.5°	2.8	2.3	1.8	1.4	1.0	0.5	0.0
50°	3.0	2.5	2.0	1.4	1.0	0.5	0.0
47.5°	3.1	2.6	2.1	1.5	1.0	0.5	0.0
45°	3.4	2.7	2.2	1.6	1.1	0.6	0.0
42.5°	3.7	2.8	2.3	1.7	1.1	0.6	0.0
40°	4.0	3.0	2.3	1.7	1.2	0.6	0.0
37.5°	4.2	3.1	2.4	1.8	1.2	0.6	0.0
35°	4.4	3.2	2.5	1.9	1.2	0.7	0.0
32.5°	4.6	3.4	2.6	1.9	1.3	0.7	0.0
30°	4.6	3.6	2.7	2.0	1.3	0.7	0.0
27.5°	4.6	3.7	2.7	2.0	1.3	0.7	0.0
25°	4.6	3.9	2.8	2.1	1.4	0.7	0.0
22.5°	4.6	4.0	2.9	2.1	1.4	0.7	0.0
20°	4.6	4.1	2.9	2.2	1.4	0.8	0.0
17.5°	4.6	4.2	3.0	2.2	1.4	0.8	0.0
15°	4.6	4.3	3.0	2.2	1.5	0.8	0.0
12.5°	4.6	4.4	3.0	2.2	1.5	0.8	0.0
10°	4.6	4.5	3.1	2.3	1.5	0.8	0.0
7.5°	4.6	4.5	3.1	2.3	1.5	0.8	0.0
5°	4.6	4.6	3.1	2.3	1.5	0.8	0.0
2.5°	4.6	4.6	3.1	2.3	1.5	0.8	0.0
0°	4.6	4.6	3.1	2.3	1.5	0.8	0.0
-2.5°	4.6	4.6	3.1	2.3	1.5	0.8	0.0
-5°	4.6	4.6	3.1	2.3	1.5	0.8	0.0
-7.5°	4.6	4.5	3.1	2.3	1.5	0.8	0.0
-10°	4.6	4.5	3.1	2.3	1.5	0.8	0.0
-12.5°	4.6	4.4	3.0	2.2	1.5	0.8	0.0
-15°	4.6	4.3	3.0	2.2	1.5	0.8	0.0
-17.5°	4.6	4.2	3.0	2.2	1.4	0.8	0.0
-20°	4.6	4.1	2.9	2.2	1.4	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	4.6	4.0	2.9	2.1	1.4	0.7	0.0
-25°	4.6	3.9	2.8	2.1	1.4	0.7	0.0
-27.5°	4.6	3.7	2.7	2.0	1.3	0.7	0.0
-30°	4.6	3.6	2.7	2.0	1.3	0.7	0.0
-32.5°	4.6	3.4	2.6	1.9	1.3	0.7	0.0
-35°	4.4	3.2	2.5	1.9	1.2	0.7	0.0
-37.5°	4.2	3.1	2.4	1.8	1.2	0.6	0.0
-40°	4.0	3.0	2.3	1.7	1.2	0.6	0.0
-42.5°	3.7	2.8	2.3	1.7	1.1	0.6	0.0
-45°	3.4	2.7	2.2	1.6	1.1	0.6	0.0
-47.5°	3.1	2.6	2.1	1.5	1.0	0.5	0.0
-50°	3.0	2.5	2.0	1.4	1.0	0.5	0.0
-52.5°	2.8	2.3	1.8	1.4	1.0	0.5	0.0
-55°	2.6	2.2	1.7	1.3	0.9	0.5	0.0
-57.5°	2.5	2.0	1.6	1.2	0.9	0.4	0.0
-60°	2.3	1.9	1.5	1.1	0.8	0.4	0.0
-62.5°	2.1	1.7	1.4	1.1	0.7	0.4	0.0
-65°	1.9	1.6	1.3	1.0	0.7	0.3	0.0
-67.5°	1.7	1.4	1.2	0.9	0.6	0.3	0.0
-70°	1.5	1.3	1.1	0.8	0.5	0.3	0.0
-72.5°	1.3	1.1	0.9	0.7	0.5	0.2	0.0
-75°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-77.5°	1.0	0.9	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)