

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: EPHESUS

Report Number: P701627 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-1S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701627 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-80-1S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

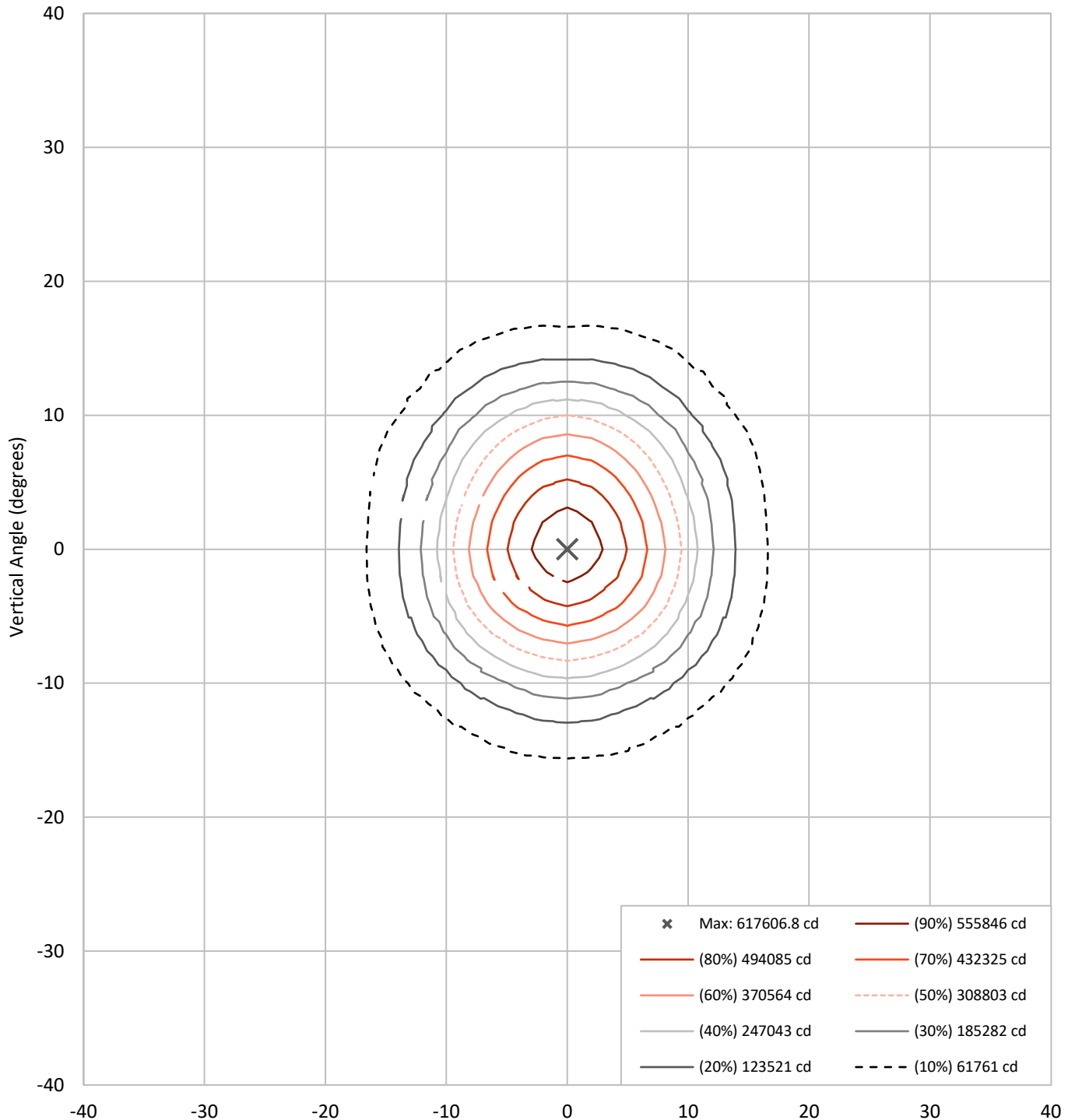
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	74391.7 lumens	Max Intensity:	617606.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	102.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	34709 lumens	Field Lumens:	63041 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

Input Watts (W): 724.6  
Input Voltage (V): NR  
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





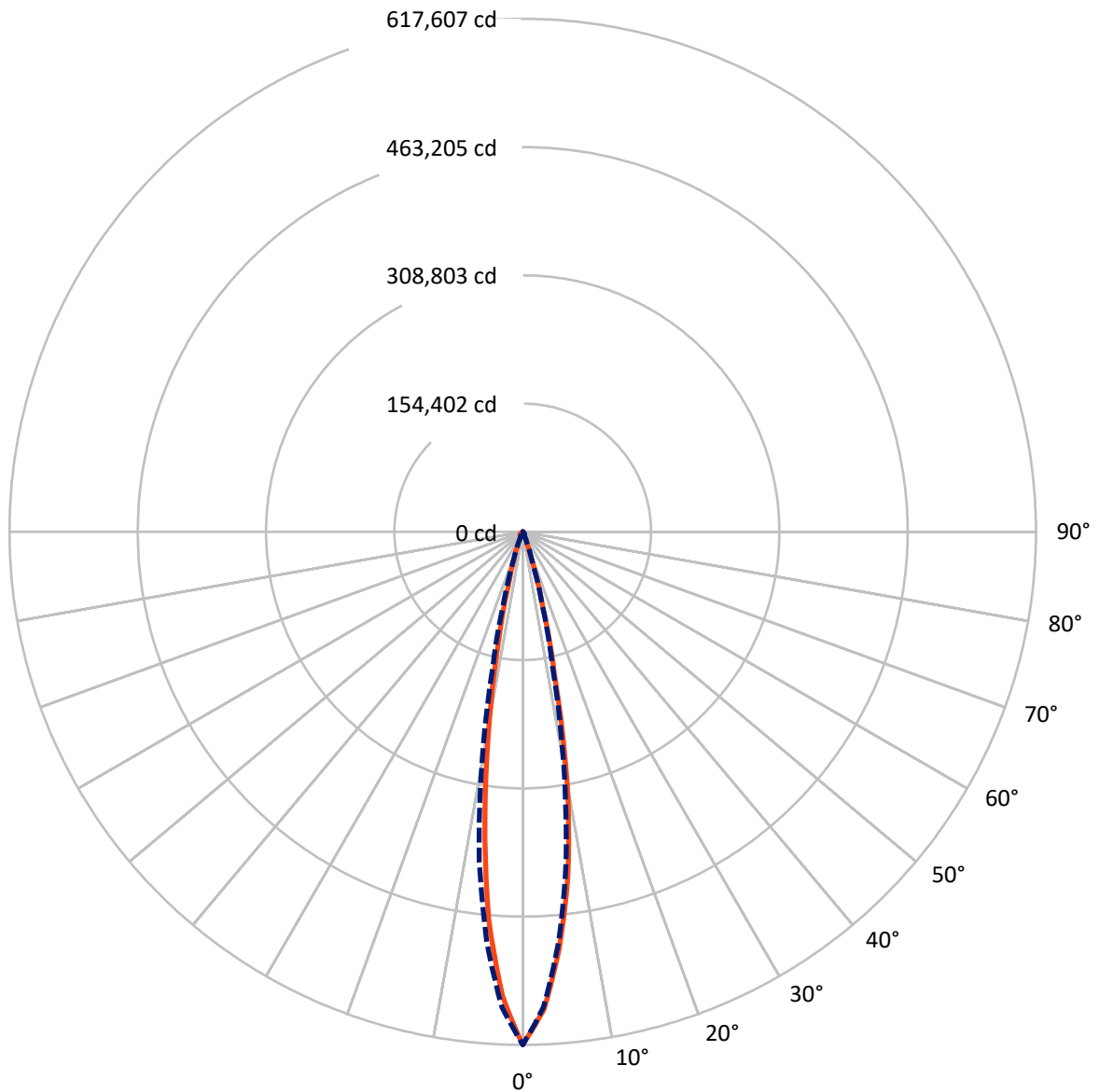
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### Lumen Table

90	0.1	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.1										
80	0.1	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.1										
70	0.1	0.1	0.2	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.2	0.1	0.1			
60		0.1	0.3	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.3	0.1				
50	0.2	0.2	0.4	0.4	0.5	0.8	1.2	0.9	0.9	1.2	0.8	0.5	0.4	0.4	0.2	0.2			
40		0.3	0.9	2.1	4.1	5.9	8.4	10.4	10.4	8.4	5.9	4.1	2.1	0.9	0.3				
30	0.3	0.5	4.1	12.9	30.4	41.3	66.0	117.8	117.8	66.0	41.3	30.4	12.9	4.1	0.5	0.3			
20		1.3	8.6	37.1	74.7	99.0	723.6	2915.7	2915.7	723.6	99.0	74.7	37.1	8.6	1.3				
10	0.4	2.0	11.1	50.1	83.1	181.8	2710.7	11706.2	11706.2	2710.7	181.8	83.1	50.1	11.1	2.0	0.4			
0		2.5	11.7	49.2	83.1	176.5	2593.2	10844.2	10844.2	2593.2	176.5	83.1	49.2	11.7	2.5				
-10	0.6	2.9	11.3	39.4	76.5	96.6	577.5	2165.1	2165.1	577.5	96.6	76.5	39.4	11.3	2.9	0.6			
-20		3.0	11.0	27.3	75.8	95.1	107.6	185.8	185.8	107.6	95.1	75.8	27.3	11.0	3.0				
-30	0.5	2.6	10.0	19.2	53.8	111.5	130.5	134.6	134.6	130.5	111.5	53.8	19.2	10.0	2.6	0.5			
-40		1.9	7.6	17.0	28.5	51.3	93.0	126.2	126.2	93.0	51.3	28.5	17.0	7.6	1.9				
-50	0.3	0.9	4.4	11.4	21.8	31.7	39.9	44.9	44.9	39.9	31.7	21.8	11.4	4.4	0.9	0.3			
-60		0.4	1.5	4.5	9.4	15.3	21.2	24.7	24.7	21.2	15.3	9.4	4.5	1.5	0.4				
-70	0.2	0.4	1.5	4.5	9.4	15.3	21.2	24.7	24.7	21.2	15.3	9.4	4.5	1.5	0.4	0.2			
-80		1.2	3.4	7.8	10.5	7.8	3.4	1.2	0.2										
-90	0.2	1.2	3.4	7.8	10.5	7.8	3.4	1.2	0.2										

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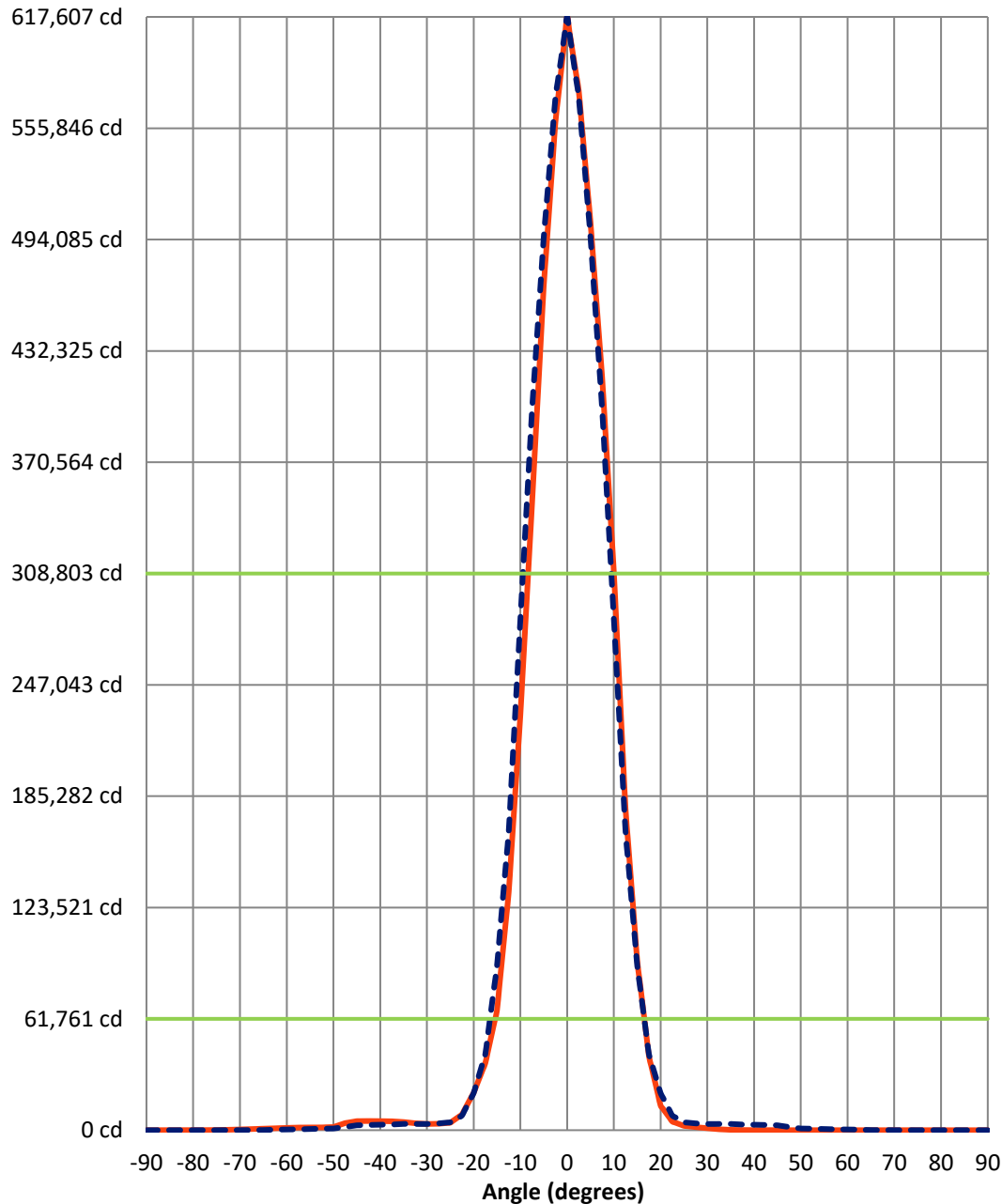
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 18.9°  
V Angle: 18.3°  
Lumens: 34709  
Efficiency: 46.7%

**Field:**  
H Angle: 33°  
V Angle: 31.9°  
Lumens: 63041  
Efficiency: 84.7%

**Spill:**  
Lumens: 11350.7  
Efficiency: 15.3%

— 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°	4.5	4.5	4.5	5.2	6.0	6.7	7.4	8.2	8.9	9.7	10.4
87.5°	4.5	4.5	4.5	4.2	3.9	3.6	3.4	3.3	3.3	3.1	3.0
85°	4.5	4.6	4.5	4.2	4.0	3.9	3.8	3.7	3.5	3.3	3.0
82.5°	4.5	4.6	4.5	4.3	4.1	4.1	4.2	4.0	3.8	3.6	3.4
80°	4.5	4.6	4.5	4.3	4.3	4.3	4.5	4.5	4.3	4.2	4.1
77.5°	4.5	4.7	4.5	4.4	4.4	4.6	4.9	4.9	4.9	4.8	4.6
75°	4.5	4.7	4.5	4.4	4.5	4.9	5.3	5.4	5.3	5.0	4.6
72.5°	4.5	4.7	4.5	4.5	4.8	5.2	5.7	5.7	5.4	5.0	4.7
70°	4.5	4.8	4.6	4.5	5.0	5.5	6.0	5.8	5.4	5.1	5.2
67.5°	4.5	4.8	4.6	4.7	5.3	5.9	6.0	5.8	5.5	5.6	5.8
65°	4.5	4.8	4.6	4.9	5.5	6.1	6.1	5.9	6.0	6.2	6.3
62.5°	4.5	4.9	4.7	5.1	5.8	6.2	6.2	6.2	6.5	6.7	6.5
60°	4.5	4.9	4.7	5.2	6.0	6.3	6.3	6.6	7.0	7.1	6.8
57.5°	4.5	5.0	4.8	5.4	6.1	6.4	6.6	7.0	7.4	7.4	7.4
55°	4.5	5.0	5.0	5.6	6.3	6.6	7.0	7.4	7.8	7.9	8.1
52.5°	4.5	5.1	5.1	5.7	6.4	6.7	7.3	7.9	8.3	8.5	8.8
50°	4.5	5.1	5.3	5.9	6.6	7.0	7.7	8.4	8.9	9.2	10.1
47.5°	4.5	5.1	5.4	6.0	6.7	7.3	8.0	8.9	9.4	9.8	11.5
45°	4.5	5.2	5.5	6.2	6.9	7.6	8.5	9.5	10.0	10.9	12.8
42.5°	4.5	5.2	5.7	6.3	7.1	7.9	9.0	10.0	10.5	11.9	15.1
40°	4.5	5.3	5.8	6.5	7.3	8.2	9.5	10.5	11.2	12.9	17.5
37.5°	4.5	5.3	5.9	6.6	7.5	8.4	10.0	10.9	12.2	14.3	19.6
35°	4.5	5.4	6.1	6.8	7.7	8.8	10.5	11.4	13.1	16.4	21.4
32.5°	4.5	5.4	6.2	7.0	7.9	9.2	11.0	11.8	14.1	18.5	23.2
30°	4.5	5.5	6.3	7.2	8.1	9.6	11.4	12.4	15.1	20.4	25.3
27.5°	4.5	5.5	6.4	7.4	8.3	10.0	11.7	13.2	16.3	22.3	27.8
25°	4.5	5.6	6.5	7.5	8.6	10.4	12.1	14.0	17.9	24.2	30.6
22.5°	4.5	5.6	6.6	7.7	8.8	10.8	12.4	14.7	19.3	26.3	34.8
20°	4.5	5.7	6.7	7.9	9.0	11.0	12.8	15.5	20.7	28.5	39.5
17.5°	4.5	5.7	6.8	8.0	9.2	11.3	13.1	16.2	21.9	30.8	44.4
15°	4.5	5.8	6.9	8.2	9.4	11.5	13.3	16.9	23.0	33.2	49.4
12.5°	4.5	5.8	7.0	8.3	9.6	11.6	13.6	17.5	24.1	35.6	54.6
10°	4.5	5.8	7.1	8.4	9.8	11.7	13.9	18.0	25.1	37.8	59.7
7.5°	4.5	5.9	7.2	8.6	10.0	11.8	14.2	18.4	26.1	39.8	64.7
5°	4.5	5.9	7.3	8.7	10.1	11.9	14.4	18.8	26.9	41.7	69.4
2.5°	4.5	6.0	7.3	8.8	10.3	11.9	14.7	19.1	27.7	43.3	73.7
0°	4.5	6.0	7.4	8.9	10.4	11.9	14.9	19.4	28.3	44.7	77.5
-2.5°	4.5	6.0	7.5	9.0	10.7	12.6	16.3	23.1	36.3	59.0	99.7
-5°	4.5	6.1	7.5	9.1	10.9	13.2	17.6	26.7	44.0	72.7	120.7
-7.5°	4.5	6.1	7.6	9.2	11.1	13.8	18.8	29.9	51.2	85.4	140.2
-10°	4.5	6.1	7.6	9.2	11.3	14.3	19.9	32.9	57.6	96.9	157.8
-12.5°	4.5	6.1	7.7	9.3	11.5	14.8	20.9	35.4	63.1	107.0	172.5
-15°	4.5	6.1	7.7	9.3	11.7	15.2	21.8	37.4	68.4	116.1	184.6
-17.5°	4.5	6.1	7.7	9.4	11.8	15.6	22.5	39.7	73.5	123.5	193.9
-20°	4.5	6.1	7.7	9.4	11.9	15.8	23.2	42.0	77.3	129.0	200.3



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	6.1	7.8	9.4	11.9	16.0	24.0	43.3	79.6	132.6	203.5
-25°	4.5	6.1	7.8	9.4	11.9	16.2	24.4	43.5	80.3	134.1	203.3
-27.5°	4.5	6.1	7.8	9.4	11.9	16.2	24.4	42.7	79.3	134.0	204.4
-30°	4.5	6.1	7.8	9.4	11.8	16.2	23.8	40.7	77.9	132.7	202.7
-32.5°	4.5	6.1	7.8	9.4	11.8	16.1	22.8	39.6	75.6	129.1	198.1
-35°	4.5	6.1	7.7	9.4	11.7	15.9	22.3	38.4	71.5	123.0	190.5
-37.5°	4.5	6.0	7.7	9.3	11.6	15.6	21.9	36.5	65.8	114.5	178.4
-40°	4.5	6.0	7.7	9.3	11.5	15.5	21.5	33.7	58.2	105.6	164.3
-42.5°	4.5	6.0	7.6	9.3	11.4	15.2	20.8	30.2	52.6	94.1	147.6
-45°	4.5	5.9	7.6	9.2	11.3	14.9	20.0	27.3	47.6	80.7	128.9
-47.5°	4.5	5.9	7.5	9.2	11.3	14.5	19.1	26.2	41.6	65.9	111.8
-50°	4.5	5.8	7.5	9.1	11.2	14.0	18.4	24.9	34.4	57.6	92.9
-52.5°	4.5	5.8	7.4	9.0	11.1	13.5	17.8	23.3	30.8	48.3	73.2
-55°	4.5	5.7	7.4	8.9	10.9	13.2	17.0	21.7	28.7	38.3	61.4
-57.5°	4.5	5.6	7.3	8.8	10.7	13.0	16.1	20.6	26.4	33.8	48.6
-60°	4.5	5.6	7.2	8.6	10.5	12.7	15.2	19.4	24.2	30.8	38.3
-62.5°	4.5	5.5	7.0	8.4	10.2	12.4	14.7	18.1	22.7	27.7	34.6
-65°	4.5	5.4	6.8	8.2	9.9	12.0	14.2	17.0	21.2	25.7	30.7
-67.5°	4.5	5.3	6.6	8.0	9.5	11.5	13.7	16.3	19.6	23.9	28.1
-70°	4.5	5.2	6.4	7.8	9.1	10.9	13.1	15.5	18.6	22.0	26.1
-72.5°	4.5	5.2	6.2	7.5	8.6	10.2	12.2	14.7	17.4	20.5	23.9
-75°	4.5	5.1	6.0	7.2	8.2	9.5	11.2	13.6	16.2	18.8	21.9
-77.5°	4.5	5.0	5.7	6.8	7.8	8.8	10.1	12.4	14.8	17.2	19.7
-80°	4.5	4.9	5.5	6.5	7.4	8.2	9.0	11.1	13.4	15.6	17.8
-82.5°	4.5	4.8	5.3	6.2	7.1	7.9	8.5	10.1	11.9	13.9	16.0
-85°	4.5	4.7	5.0	5.9	6.7	7.5	8.2	9.5	10.9	12.5	14.2
-87.5°	4.5	4.6	4.8	5.6	6.3	7.1	7.8	8.8	9.9	11.1	12.3
-90°	4.5	4.5	4.5	4.1	3.8	3.4	3.0	3.0	3.0	3.0	3.0





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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°	10.4	10.4	10.4	10.4	10.8	11.2	11.5	11.9	12.3	12.7	13.0
87.5°	2.8	2.6	2.5	2.4	2.2	2.0	1.8	1.5	1.5	1.5	1.5
85°	3.0	3.0	3.0	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7
82.5°	3.4	3.4	3.2	3.0	2.9	2.9	3.0	3.0	2.7	2.5	2.3
80°	4.0	3.8	3.6	3.5	3.5	3.5	3.3	3.1	3.0	3.1	3.3
77.5°	4.3	4.2	4.2	4.3	4.2	4.0	3.8	3.8	4.0	4.2	4.4
75°	4.4	4.5	4.6	4.6	4.4	4.4	4.5	4.8	5.0	5.0	4.9
72.5°	4.7	4.9	4.9	4.7	4.8	5.2	5.5	5.9	6.6	7.4	8.1
70°	5.4	5.4	5.3	5.4	5.7	6.3	7.6	9.2	10.9	12.7	15.5
67.5°	5.9	5.7	5.8	6.2	7.2	8.6	10.4	16.4	23.3	26.3	27.2
65°	6.0	6.0	6.5	7.5	8.8	13.5	20.1	28.2	35.8	36.7	35.4
62.5°	6.1	6.6	7.5	9.7	14.1	20.5	27.6	35.3	43.9	44.3	38.8
60°	6.7	7.3	9.6	13.8	19.0	24.7	32.5	38.7	45.8	49.2	37.5
57.5°	7.4	8.7	12.5	17.5	22.8	27.0	31.2	37.6	41.4	42.0	31.0
55°	8.6	10.6	15.4	21.1	24.9	24.0	27.4	30.9	32.4	30.2	21.6
52.5°	10.4	12.7	18.8	23.7	24.5	22.5	22.5	24.2	22.5	19.4	16.9
50°	12.0	16.5	22.0	25.1	24.4	21.4	18.2	17.8	17.2	16.1	14.5
47.5°	14.8	20.0	24.7	26.6	23.5	20.4	16.5	15.9	15.9	15.3	14.0
45°	17.8	22.8	27.6	25.8	22.9	19.9	18.3	16.4	16.4	16.6	17.5
42.5°	20.6	25.0	27.4	25.1	23.2	22.3	22.0	19.6	19.5	23.5	24.9
40°	22.5	26.9	27.4	27.0	25.0	27.0	27.7	27.9	29.1	33.4	35.5
37.5°	24.0	27.6	29.4	32.1	30.2	33.5	35.0	51.3	53.3	45.0	61.8
35°	25.2	29.0	36.5	44.6	47.2	42.0	63.3	85.7	93.4	88.3	107.3
32.5°	26.6	31.0	46.1	65.5	83.3	78.8	99.5	138.2	162.9	175.4	190.6
30°	29.4	40.0	61.2	92.2	138.0	165.5	167.0	208.1	253.5	334.2	406.9
27.5°	34.0	51.8	86.9	142.9	213.4	270.8	281.5	308.0	411.9	564.5	756.6
25°	39.3	80.6	116.3	211.7	315.6	380.2	398.9	444.0	624.4	974.4	1164.2
22.5°	53.9	118.9	166.1	291.9	430.3	486.0	525.2	689.0	1014.7	1477.3	1619.9
20°	81.5	163.3	228.0	360.8	546.1	590.5	649.5	1000.8	1522.9	1908.2	2101.9
17.5°	114.0	208.1	289.9	428.8	591.9	674.1	798.8	1357.8	2047.9	2324.6	2526.1
15°	150.4	252.9	343.5	488.7	632.3	729.7	1032.8	1772.9	2491.9	2720.9	2918.1
12.5°	189.3	297.4	389.7	540.7	672.3	781.4	1245.8	2064.7	2705.5	3029.3	3283.3
10°	229.3	341.1	429.3	585.3	711.1	828.9	1445.3	2314.8	2813.4	3081.5	3361.8
7.5°	254.2	368.9	459.6	622.7	748.1	872.2	1626.1	2522.9	2887.7	3097.7	3305.5
5°	272.8	378.5	467.4	639.5	775.8	904.0	1762.2	2688.4	2934.9	3085.4	3207.3
2.5°	287.0	385.0	472.5	648.7	796.6	920.0	1775.1	2714.5	2920.5	3061.8	3145.9
0°	296.4	388.8	475.2	652.5	813.3	931.0	1748.8	2700.7	2888.4	3034.4	3132.7
-2.5°	306.9	400.1	496.6	664.0	814.8	931.4	1723.9	2673.9	2920.2	3116.3	3279.5
-5°	313.2	409.2	514.9	671.1	812.1	927.7	1667.8	2605.3	2916.3	3122.7	3322.9
-7.5°	316.1	416.2	529.0	673.1	800.5	909.9	1572.4	2441.6	2793.6	2986.7	3234.4
-10°	317.2	425.2	535.7	662.6	777.9	882.1	1445.4	2252.5	2666.8	2843.5	3103.9
-12.5°	320.2	435.9	539.9	652.1	754.9	851.3	1290.1	2045.2	2539.1	2694.6	2959.7
-15°	320.2	444.5	542.9	643.1	732.5	817.8	1107.8	1826.0	2469.4	2721.8	2939.7
-17.5°	317.5	451.0	545.1	636.8	711.9	782.0	906.2	1630.4	2425.3	2780.6	2995.6
-20°	312.4	455.6	547.1	634.2	694.7	765.4	864.0	1412.3	2201.6	2807.3	3069.7



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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°	305.1	458.2	548.8	632.2	700.2	767.1	850.1	1165.1	1890.7	2803.9	3072.0
-25°	301.7	445.3	548.5	631.9	708.6	770.5	833.8	929.9	1556.6	2404.9	2990.6
-27.5°	300.3	430.6	539.1	625.6	716.3	775.9	830.7	908.7	1237.1	1927.1	2823.8
-30°	294.5	406.3	525.4	613.2	708.7	782.3	836.1	885.6	976.1	1515.4	2261.6
-32.5°	281.0	380.9	499.4	595.0	690.6	788.2	838.1	880.7	947.4	1107.0	1713.1
-35°	265.1	360.7	468.7	571.8	665.2	768.0	835.0	879.6	923.4	1000.7	1275.5
-37.5°	250.8	337.5	437.4	541.4	635.2	731.6	827.8	875.1	919.2	974.3	1079.0
-40°	233.7	311.3	407.8	506.6	600.4	693.3	786.5	868.5	912.9	984.6	1053.6
-42.5°	214.0	289.3	376.0	470.8	560.7	651.8	743.1	830.9	922.8	994.8	1063.8
-45°	192.4	264.3	342.2	428.5	516.7	605.6	694.3	785.6	896.4	1006.1	1075.3
-47.5°	167.8	236.3	310.4	381.8	466.7	553.7	640.7	736.4	846.2	960.7	1084.2
-50°	141.8	205.1	272.8	338.3	410.5	495.2	580.5	676.8	780.2	891.0	1007.3
-52.5°	118.0	170.5	231.5	294.9	357.9	428.5	513.9	605.3	702.1	806.3	907.9
-55°	92.1	138.5	187.0	246.5	308.3	368.2	437.8	523.4	612.5	706.9	798.7
-57.5°	72.6	105.3	146.2	193.6	251.7	312.3	372.2	436.8	515.8	599.1	675.6
-60°	56.7	78.2	107.9	146.7	189.6	245.3	304.5	363.1	424.2	485.1	551.1
-62.5°	42.0	58.5	77.6	102.8	138.8	176.8	226.1	280.7	337.5	388.1	435.9
-65°	37.3	42.2	55.3	72.8	90.5	121.9	156.6	193.2	240.7	285.2	328.5
-67.5°	32.3	36.9	41.2	47.7	63.4	79.0	94.4	124.7	156.4	184.9	215.2
-70°	29.3	31.9	35.7	39.4	42.9	49.5	63.1	76.4	89.0	104.5	128.4
-72.5°	26.5	28.6	31.0	33.7	36.8	39.9	43.0	46.2	54.2	64.7	74.1
-75°	23.8	25.1	26.9	28.9	31.2	33.4	35.6	38.2	41.0	43.9	47.0
-77.5°	21.1	22.3	23.4	24.4	25.8	27.7	29.6	31.4	33.1	34.8	36.4
-80°	18.7	19.4	20.2	21.1	22.1	23.1	24.2	25.4	26.7	28.0	29.4
-82.5°	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.3	21.0	21.8	22.6
-85°	14.6	14.9	15.2	15.6	15.9	16.2	16.5	16.8	17.0	17.3	17.5
-87.5°	12.5	12.6	12.8	13.0	13.3	13.6	13.8	14.0	14.2	14.4	14.5
-90°	2.6	2.3	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	13.4	13.8	14.2	14.5	14.9	15.3	15.7	16.0	16.4	16.4	16.4
87.5°	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.1	0.7
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	2.2	2.1	2.0	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	3.4	3.2	3.0	2.7	2.5	2.3	2.1	1.8	1.5	1.5	1.5
77.5°	4.5	4.2	3.8	3.5	3.1	2.9	2.8	2.7	2.7	2.8	2.9
75°	4.6	4.5	4.7	4.7	4.5	4.3	4.1	3.7	3.1	3.0	3.0
72.5°	8.8	9.2	9.0	8.8	8.1	7.5	7.3	6.9	6.5	6.4	6.4
70°	16.9	17.1	16.4	14.9	12.6	11.1	10.5	9.7	8.8	8.8	9.2
67.5°	25.8	23.5	21.5	19.0	16.0	13.9	13.1	12.3	11.5	11.1	11.0
65°	31.7	25.0	21.3	18.9	17.4	15.6	13.9	12.3	10.7	9.6	9.3
62.5°	31.4	22.0	17.7	15.7	14.2	13.1	11.4	10.0	8.7	7.8	7.7
60°	27.3	18.3	13.6	12.2	11.2	10.4	9.5	8.6	7.9	7.4	7.4
57.5°	21.3	14.2	10.4	10.2	9.8	9.2	8.7	8.2	7.8	7.4	7.8
55°	15.5	12.4	10.5	10.3	10.0	9.4	8.8	8.7	8.6	8.4	9.0
52.5°	13.4	12.2	11.7	11.4	10.8	10.4	10.3	10.3	10.4	10.7	10.9
50°	13.2	12.7	12.4	11.8	11.7	11.8	11.8	12.2	12.7	12.8	12.9
47.5°	13.7	13.6	14.0	13.2	13.5	14.5	14.7	15.0	16.1	16.3	16.3
45°	16.2	18.3	18.9	18.8	18.4	23.9	25.0	22.9	31.5	30.3	23.6
42.5°	24.9	27.6	29.4	34.7	42.6	47.9	61.8	84.8	75.9	57.2	36.9
40°	42.8	42.0	50.1	60.1	65.9	76.8	93.8	115.9	106.9	90.8	97.0
37.5°	75.4	76.4	79.1	92.1	96.8	84.8	109.9	108.0	91.7	117.2	120.3
35°	138.4	153.1	130.1	158.3	165.0	154.9	164.0	181.5	157.0	189.8	200.4
32.5°	249.0	274.4	275.4	282.0	305.5	328.1	334.5	381.5	396.7	436.4	479.0
30°	397.7	444.6	484.5	495.3	526.6	582.5	628.6	719.2	816.2	889.0	984.8
27.5°	716.9	674.5	763.3	871.4	837.0	918.2	1084.6	1215.3	1408.6	1547.9	1622.9
25°	1159.6	1090.6	1252.4	1417.3	1417.7	1431.4	1672.1	1881.9	2040.1	2165.7	2275.8
22.5°	1682.1	1767.9	1913.0	2104.4	2004.7	2095.6	2334.5	2504.9	2726.5	2943.8	3594.7
20°	2267.5	2441.3	2560.7	2532.2	2527.8	2682.4	2892.6	3221.4	3891.8	6255.2	8512.1
17.5°	2783.4	2994.6	2984.1	2864.0	2920.9	3180.5	3561.9	4838.5	8225.3	15901.2	23084.7
15°	3183.4	3277.6	3215.7	3143.8	3271.2	3659.9	4613.9	8742.2	19019.9	31311.9	45342.2
12.5°	3450.7	3413.8	3251.3	3263.1	3565.8	4112.0	7354.4	17016.5	31877.6	49334.0	84608.8
10°	3554.0	3452.9	3310.7	3442.3	3855.3	5169.7	9891.7	23626.8	46094.9	82387.3	129933.1
7.5°	3483.7	3397.5	3357.4	3589.8	4139.4	6846.6	15376.2	33418.2	66073.1	112874.7	179783.7
5°	3438.2	3380.6	3389.2	3686.6	4319.1	8079.7	19252.3	39578.0	81957.3	142357.7	227480.5
2.5°	3435.5	3401.2	3416.4	3753.9	4420.4	8710.8	21435.9	40603.7	87537.0	158394.7	266507.6
0°	3472.3	3450.0	3436.6	3767.3	4372.1	8093.1	20565.8	42251.8	91364.8	165630.1	283462.6
-2.5°	3643.9	3461.0	3453.3	3766.5	4425.5	8552.5	21075.1	41682.6	89983.2	158942.9	265274.3
-5°	3602.8	3396.0	3363.0	3626.0	4241.2	7701.6	18450.5	38495.0	79040.9	135150.0	218648.3
-7.5°	3440.0	3301.8	3243.1	3452.4	3987.4	6464.3	14308.6	30392.3	59519.3	101871.0	157559.0
-10°	3307.7	3216.4	3129.7	3274.6	3681.3	4940.1	9121.6	20389.2	40485.5	69274.4	101165.8
-12.5°	3238.1	3194.9	3038.6	3079.0	3363.2	3921.6	6382.5	13781.7	25354.2	37616.8	61449.7
-15°	3188.8	3156.1	3009.7	3000.0	3158.7	3488.7	4204.6	7148.7	14178.3	23006.3	32466.3
-17.5°	3144.3	3132.3	3054.7	2970.5	2990.4	3181.7	3575.8	4621.2	7250.8	12862.2	18976.7
-20°	3165.7	3172.7	3113.4	3025.5	2994.1	3018.9	3223.6	3583.8	4249.9	6518.4	9288.6



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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°	3158.9	3179.2	3163.3	3169.6	3131.8	3074.3	3033.7	3190.9	3443.0	3846.4	4871.0
-25°	3158.3	3186.1	3304.4	3455.9	3440.1	3302.7	3158.8	3034.2	3178.4	3352.6	3606.9
-27.5°	3111.5	3292.4	3586.9	3810.2	3874.3	3723.7	3522.4	3312.9	3289.9	3284.4	3382.2
-30°	3096.2	3484.7	3832.1	4150.5	4195.3	4119.4	4026.2	3876.9	3716.7	3628.1	3580.8
-32.5°	2628.9	3569.6	3994.4	4280.8	4351.7	4348.3	4369.3	4298.4	4248.5	4191.1	4110.2
-35°	1995.9	2983.0	4023.1	4155.1	4270.5	4373.4	4511.0	4546.2	4573.9	4605.7	4634.0
-37.5°	1393.7	2163.2	3027.4	3781.3	4020.9	4199.8	4443.7	4622.6	4771.4	4845.2	4933.9
-40°	1154.6	1367.2	2036.7	2674.0	3301.9	3880.9	4143.6	4448.4	4733.5	4891.9	5036.8
-42.5°	1130.9	1206.6	1287.0	1731.4	2262.9	2809.4	3346.4	3833.1	4351.8	4697.6	4952.0
-45°	1138.5	1176.7	1223.7	1301.7	1385.0	1802.1	2252.0	2711.3	3278.1	3831.9	4315.2
-47.5°	1137.5	1172.4	1209.6	1247.4	1297.1	1374.8	1454.8	1584.7	1986.7	2411.6	2822.9
-50°	1098.1	1169.0	1203.7	1239.0	1275.1	1313.6	1353.9	1411.0	1479.0	1542.7	1594.3
-52.5°	998.6	1082.2	1162.6	1229.9	1263.0	1296.7	1332.5	1380.1	1424.7	1466.6	1488.3
-55°	886.2	969.4	1050.7	1123.0	1191.2	1256.9	1317.8	1361.4	1405.9	1451.3	1469.8
-57.5°	756.9	840.9	921.6	989.0	1057.1	1125.2	1188.3	1248.9	1309.4	1366.7	1398.7
-60°	619.3	689.4	761.7	830.8	897.0	959.9	1018.7	1076.1	1131.1	1179.2	1209.5
-62.5°	484.2	539.4	600.4	660.4	718.5	774.6	828.9	880.6	929.3	970.4	999.0
-65°	370.7	411.9	453.9	497.1	541.3	589.6	635.1	678.2	718.6	752.0	776.9
-67.5°	251.8	287.4	321.4	353.4	385.8	419.9	454.5	487.0	517.3	541.9	561.2
-70°	151.3	173.6	195.2	218.2	244.2	269.0	293.5	316.6	338.2	355.0	367.7
-72.5°	82.5	90.5	101.2	118.9	135.3	150.4	164.3	176.9	188.2	197.5	205.1
-75°	50.2	54.2	60.8	67.1	73.1	78.9	84.4	89.5	94.1	98.0	101.2
-77.5°	38.4	40.6	42.6	44.6	46.4	48.5	50.4	52.2	53.9	55.4	56.8
-80°	30.7	31.9	33.1	34.2	35.3	36.5	37.8	39.0	40.2	41.1	41.8
-82.5°	23.4	24.6	25.7	26.7	27.6	28.3	29.0	29.7	30.4	31.0	31.6
-85°	17.8	18.6	19.4	20.3	21.2	21.5	21.7	21.9	22.0	22.5	22.9
-87.5°	14.6	15.0	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.2	18.6
-90°	1.5	1.1	0.8	0.4	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.0
87.5°	0.4	0.0	0.7	1.5	0.7	0.0	0.4	0.7	1.1	1.4	1.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8
77.5°	2.9	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.7	2.7
75°	3.0	3.0	3.7	4.5	3.7	3.0	3.0	3.0	3.0	3.1	3.7
72.5°	6.2	6.0	6.0	6.0	6.0	6.0	6.2	6.4	6.4	6.5	6.9
70°	9.7	10.2	10.4	10.4	10.4	10.2	9.7	9.2	8.8	8.8	9.7
67.5°	10.8	10.5	9.0	7.4	9.0	10.5	10.8	11.0	11.1	11.5	12.3
65°	9.1	9.0	8.2	7.4	8.2	9.0	9.1	9.3	9.6	10.7	12.3
62.5°	7.6	7.5	7.4	7.4	7.4	7.5	7.6	7.7	7.8	8.7	10.0
60°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.9	8.6
57.5°	8.2	8.7	8.9	8.9	8.9	8.7	8.2	7.8	7.4	7.8	8.2
55°	9.6	10.1	10.4	10.4	10.4	10.1	9.6	9.0	8.4	8.6	8.7
52.5°	10.9	10.6	10.9	11.9	10.9	10.6	10.9	10.9	10.7	10.4	10.3
50°	13.0	13.2	13.4	13.4	13.4	13.2	13.0	12.9	12.8	12.7	12.2
47.5°	16.5	16.4	16.3	16.4	16.3	16.4	16.5	16.3	16.3	16.1	15.0
45°	24.4	24.8	25.5	26.8	25.5	24.8	24.4	23.6	30.3	31.5	22.9
42.5°	38.6	39.5	39.9	40.2	39.9	39.5	38.6	36.9	57.2	75.9	84.8
40°	92.0	73.1	54.7	55.1	54.7	73.1	92.0	97.0	90.8	106.9	115.9
37.5°	105.7	96.1	92.2	90.9	92.2	96.1	105.7	120.3	117.2	91.7	108.0
35°	200.1	203.6	199.0	201.1	199.0	203.6	200.1	200.4	189.8	157.0	181.5
32.5°	492.6	512.6	505.5	508.0	505.5	512.6	492.6	479.0	436.4	396.7	381.5
30°	1023.4	1084.9	1098.8	1094.9	1098.8	1084.9	1023.4	984.8	889.0	816.2	719.2
27.5°	1653.2	1702.0	1711.9	1702.6	1711.9	1702.0	1653.2	1622.9	1547.9	1408.6	1215.3
25°	2336.7	2383.1	2409.3	2396.8	2409.3	2383.1	2336.7	2275.8	2165.7	2040.1	1881.9
22.5°	4348.3	4559.4	4662.3	4802.6	4662.3	4559.4	4348.3	3594.7	2943.8	2726.5	2504.9
20°	12824.0	14281.7	14005.5	13704.6	14005.5	14281.7	12824.0	8512.1	6255.2	3891.8	3221.4
17.5°	32010.4	39177.9	42591.0	41201.6	42591.0	39177.9	32010.4	23084.7	15901.2	8225.3	4838.5
15°	65470.5	85496.9	97206.2	94080.4	97206.2	85496.9	65470.5	45342.2	31311.9	19019.9	8742.2
12.5°	118600.3	150428.2	174811.4	178301.7	174811.4	150428.2	118600.3	84608.8	49334.0	31877.6	17016.5
10°	186517.5	245332.6	293802.5	309627.9	293802.5	245332.6	186517.5	129933.1	82387.3	46094.9	23626.8
7.5°	267471.6	345985.8	401885.1	417422.6	401885.1	345985.8	267471.6	179783.7	112874.7	66073.1	33418.2
5°	332398.0	422757.3	484659.2	503672.7	484659.2	422757.3	332398.0	227480.5	142357.7	81957.3	39578.0
2.5°	381029.7	475808.1	544835.6	576376.2	544835.6	475808.1	381029.7	266507.6	158394.7	87537.0	40603.7
0°	399868.8	495378.5	572782.4	617606.8	572782.4	495378.5	399868.8	283462.6	165630.1	91364.8	42251.8
-2.5°	381439.9	470237.1	529843.3	559236.5	529843.3	470237.1	381439.9	265274.3	158942.9	89983.2	41682.6
-5°	317561.0	396134.8	447537.1	468288.1	447537.1	396134.8	317561.0	218648.3	135150.0	79040.9	38495.0
-7.5°	227540.2	292039.8	330354.4	347839.1	330354.4	292039.8	227540.2	157559.0	101871.0	59519.3	30392.3
-10°	147830.6	183532.1	222163.6	230431.9	222163.6	183532.1	147830.6	101165.8	69274.4	40485.5	20389.2
-12.5°	83284.1	105812.3	125012.3	131941.5	125012.3	105812.3	83284.1	61449.7	37616.8	25354.2	13781.7
-15°	45059.5	57895.0	64811.0	66511.9	64811.0	57895.0	45059.5	32466.3	23006.3	14178.3	7148.7
-17.5°	25870.1	32036.0	35564.2	37184.1	35564.2	32036.0	25870.1	18976.7	12862.2	7250.8	4621.2
-20°	13824.3	17303.4	19289.9	20752.0	19289.9	17303.4	13824.3	9288.6	6518.4	4249.9	3583.8



REPORT NUMBER: P701627 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	6349.7	7422.0	8028.0	8712.8	8028.0	7422.0	6349.7	4871.0	3846.4	3443.0	3190.9
-25°	3827.8	3972.1	4059.0	4129.2	4059.0	3972.1	3827.8	3606.9	3352.6	3178.4	3034.2
-27.5°	3466.2	3513.4	3540.7	3569.1	3540.7	3513.4	3466.2	3382.2	3284.4	3289.9	3312.9
-30°	3540.1	3492.2	3475.6	3457.4	3475.6	3492.2	3540.1	3580.8	3628.1	3716.7	3876.9
-32.5°	4028.7	3935.7	3885.8	3838.8	3885.8	3935.7	4028.7	4110.2	4191.1	4248.5	4298.4
-35°	4623.0	4581.2	4559.1	4531.4	4559.1	4581.2	4623.0	4634.0	4605.7	4573.9	4546.2
-37.5°	4948.8	4941.5	4940.2	4926.2	4940.2	4941.5	4948.8	4933.9	4845.2	4771.4	4622.6
-40°	5053.6	5050.7	5043.4	5036.4	5043.4	5050.7	5053.6	5036.8	4891.9	4733.5	4448.4
-42.5°	5019.8	5064.8	5086.4	5087.1	5086.4	5064.8	5019.8	4952.0	4697.6	4351.8	3833.1
-45°	4623.2	4852.3	4985.6	5021.5	4985.6	4852.3	4623.2	4315.2	3831.9	3278.1	2711.3
-47.5°	3189.0	3512.1	3761.1	3917.7	3761.1	3512.1	3189.0	2822.9	2411.6	1986.7	1584.7
-50°	1639.3	1681.3	1723.8	1765.2	1723.8	1681.3	1639.3	1594.3	1542.7	1479.0	1411.0
-52.5°	1505.7	1523.3	1534.2	1540.3	1534.2	1523.3	1505.7	1488.3	1466.6	1424.7	1380.1
-55°	1486.7	1502.9	1511.0	1513.5	1511.0	1502.9	1486.7	1469.8	1451.3	1405.9	1361.4
-57.5°	1426.2	1449.0	1462.5	1468.8	1462.5	1449.0	1426.2	1398.7	1366.7	1309.4	1248.9
-60°	1234.9	1255.1	1268.7	1276.6	1268.7	1255.1	1234.9	1209.5	1179.2	1131.1	1076.1
-62.5°	1022.7	1041.5	1051.9	1056.1	1051.9	1041.5	1022.7	999.0	970.4	929.3	880.6
-65°	797.5	813.7	830.2	843.1	830.2	813.7	797.5	776.9	752.0	718.6	678.2
-67.5°	577.6	590.7	605.1	616.7	605.1	590.7	577.6	561.2	541.9	517.3	487.0
-70°	377.6	384.8	396.6	406.7	396.6	384.8	377.6	367.7	355.0	338.2	316.6
-72.5°	211.2	215.9	224.6	232.4	224.6	215.9	211.2	205.1	197.5	188.2	176.9
-75°	104.0	106.1	107.0	107.3	107.0	106.1	104.0	101.2	98.0	94.1	89.5
-77.5°	58.1	59.2	59.5	59.6	59.5	59.2	58.1	56.8	55.4	53.9	52.2
-80°	42.4	43.0	43.9	44.7	43.9	43.0	42.4	41.8	41.1	40.2	39.0
-82.5°	32.2	32.7	32.8	32.8	32.8	32.7	32.2	31.6	31.0	30.4	29.7
-85°	23.3	23.8	23.8	23.8	23.8	23.8	23.3	22.9	22.5	22.0	21.9
-87.5°	19.0	19.4	19.4	19.4	19.4	19.4	19.0	18.6	18.2	17.8	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



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	15.7	15.3	14.9	14.5	14.2	13.8	13.4	13.0	12.7	12.3	11.9
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.9	2.0	2.1
82.5°	1.5	1.5	1.5	1.8	2.0	2.1	2.2	2.3	2.5	2.7	3.0
80°	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.3	3.1	3.0	3.1
77.5°	2.8	2.9	3.1	3.5	3.8	4.2	4.5	4.4	4.2	4.0	3.8
75°	4.1	4.3	4.5	4.7	4.7	4.5	4.6	4.9	5.0	5.0	4.8
72.5°	7.3	7.5	8.1	8.8	9.0	9.2	8.8	8.1	7.4	6.6	5.9
70°	10.5	11.1	12.6	14.9	16.4	17.1	16.9	15.5	12.7	10.9	9.2
67.5°	13.1	13.9	16.0	19.0	21.5	23.5	25.8	27.2	26.3	23.3	16.4
65°	13.9	15.6	17.4	18.9	21.3	25.0	31.7	35.4	36.7	35.8	28.2
62.5°	11.4	13.1	14.2	15.7	17.7	22.0	31.4	38.8	44.3	43.9	35.3
60°	9.5	10.4	11.2	12.2	13.6	18.3	27.3	37.5	49.2	45.8	38.7
57.5°	8.7	9.2	9.8	10.2	10.4	14.2	21.3	31.0	42.0	41.4	37.6
55°	8.8	9.4	10.0	10.3	10.5	12.4	15.5	21.6	30.2	32.4	30.9
52.5°	10.3	10.4	10.8	11.4	11.7	12.2	13.4	16.9	19.4	22.5	24.2
50°	11.8	11.8	11.7	11.8	12.4	12.7	13.2	14.5	16.1	17.2	17.8
47.5°	14.7	14.5	13.5	13.2	14.0	13.6	13.7	14.0	15.3	15.9	15.9
45°	25.0	23.9	18.4	18.8	18.9	18.3	16.2	17.5	16.6	16.4	16.4
42.5°	61.8	47.9	42.6	34.7	29.4	27.6	24.9	24.9	23.5	19.5	19.6
40°	93.8	76.8	65.9	60.1	50.1	42.0	42.8	35.5	33.4	29.1	27.9
37.5°	109.9	84.8	96.8	92.1	79.1	76.4	75.4	61.8	45.0	53.3	51.3
35°	164.0	154.9	165.0	158.3	130.1	153.1	138.4	107.3	88.3	93.4	85.7
32.5°	334.5	328.1	305.5	282.0	275.4	274.4	249.0	190.6	175.4	162.9	138.2
30°	628.6	582.5	526.6	495.3	484.5	444.6	397.7	406.9	334.2	253.5	208.1
27.5°	1084.6	918.2	837.0	871.4	763.3	674.5	716.9	756.6	564.5	411.9	308.0
25°	1672.1	1431.4	1417.7	1417.3	1252.4	1090.6	1159.6	1164.2	974.4	624.4	444.0
22.5°	2334.5	2095.6	2004.7	2104.4	1913.0	1767.9	1682.1	1619.9	1477.3	1014.7	689.0
20°	2892.6	2682.4	2527.8	2532.2	2560.7	2441.3	2267.5	2101.9	1908.2	1522.9	1000.8
17.5°	3561.9	3180.5	2920.9	2864.0	2984.1	2994.6	2783.4	2526.1	2324.6	2047.9	1357.8
15°	4613.9	3659.9	3271.2	3143.8	3215.7	3277.6	3183.4	2918.1	2720.9	2491.9	1772.9
12.5°	7354.4	4112.0	3565.8	3263.1	3251.3	3413.8	3450.7	3283.3	3029.3	2705.5	2064.7
10°	9891.7	5169.7	3855.3	3442.3	3310.7	3452.9	3554.0	3361.8	3081.5	2813.4	2314.8
7.5°	15376.2	6846.6	4139.4	3589.8	3357.4	3397.5	3483.7	3305.5	3097.7	2887.7	2522.9
5°	19252.3	8079.7	4319.1	3686.6	3389.2	3380.6	3438.2	3207.3	3085.4	2934.9	2688.4
2.5°	21435.9	8710.8	4420.4	3753.9	3416.4	3401.2	3435.5	3145.9	3061.8	2920.5	2714.5
0°	20565.8	8093.1	4372.1	3767.3	3436.6	3450.0	3472.3	3132.7	3034.4	2888.4	2700.7
-2.5°	21075.1	8552.5	4425.5	3766.5	3453.3	3461.0	3643.9	3279.5	3116.3	2920.2	2673.9
-5°	18450.5	7701.6	4241.2	3626.0	3363.0	3396.0	3602.8	3322.9	3122.7	2916.3	2605.3
-7.5°	14308.6	6464.3	3987.4	3452.4	3243.1	3301.8	3440.0	3234.4	2986.7	2793.6	2441.6
-10°	9121.6	4940.1	3681.3	3274.6	3129.7	3216.4	3307.7	3103.9	2843.5	2666.8	2252.5
-12.5°	6382.5	3921.6	3363.2	3079.0	3038.6	3194.9	3238.1	2959.7	2694.6	2539.1	2045.2
-15°	4204.6	3488.7	3158.7	3000.0	3009.7	3156.1	3188.8	2939.7	2721.8	2469.4	1826.0
-17.5°	3575.8	3181.7	2990.4	2970.5	3054.7	3132.3	3144.3	2995.6	2780.6	2425.3	1630.4
-20°	3223.6	3018.9	2994.1	3025.5	3113.4	3172.7	3165.7	3069.7	2807.3	2201.6	1412.3



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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°	3033.7	3074.3	3131.8	3169.6	3163.3	3179.2	3158.9	3072.0	2803.9	1890.7	1165.1
-25°	3158.8	3302.7	3440.1	3455.9	3304.4	3186.1	3158.3	2990.6	2404.9	1556.6	929.9
-27.5°	3522.4	3723.7	3874.3	3810.2	3586.9	3292.4	3111.5	2823.8	1927.1	1237.1	908.7
-30°	4026.2	4119.4	4195.3	4150.5	3832.1	3484.7	3096.2	2261.6	1515.4	976.1	885.6
-32.5°	4369.3	4348.3	4351.7	4280.8	3994.4	3569.6	2628.9	1713.1	1107.0	947.4	880.7
-35°	4511.0	4373.4	4270.5	4155.1	4023.1	2983.0	1995.9	1275.5	1000.7	923.4	879.6
-37.5°	4443.7	4199.8	4020.9	3781.3	3027.4	2163.2	1393.7	1079.0	974.3	919.2	875.1
-40°	4143.6	3880.9	3301.9	2674.0	2036.7	1367.2	1154.6	1053.6	984.6	912.9	868.5
-42.5°	3346.4	2809.4	2262.9	1731.4	1287.0	1206.6	1130.9	1063.8	994.8	922.8	830.9
-45°	2252.0	1802.1	1385.0	1301.7	1223.7	1176.7	1138.5	1075.3	1006.1	896.4	785.6
-47.5°	1454.8	1374.8	1297.1	1247.4	1209.6	1172.4	1137.5	1084.2	960.7	846.2	736.4
-50°	1353.9	1313.6	1275.1	1239.0	1203.7	1169.0	1098.1	1007.3	891.0	780.2	676.8
-52.5°	1332.5	1296.7	1263.0	1229.9	1162.6	1082.2	998.6	907.9	806.3	702.1	605.3
-55°	1317.8	1256.9	1191.2	1123.0	1050.7	969.4	886.2	798.7	706.9	612.5	523.4
-57.5°	1188.3	1125.2	1057.1	989.0	921.6	840.9	756.9	675.6	599.1	515.8	436.8
-60°	1018.7	959.9	897.0	830.8	761.7	689.4	619.3	551.1	485.1	424.2	363.1
-62.5°	828.9	774.6	718.5	660.4	600.4	539.4	484.2	435.9	388.1	337.5	280.7
-65°	635.1	589.6	541.3	497.1	453.9	411.9	370.7	328.5	285.2	240.7	193.2
-67.5°	454.5	419.9	385.8	353.4	321.4	287.4	251.8	215.2	184.9	156.4	124.7
-70°	293.5	269.0	244.2	218.2	195.2	173.6	151.3	128.4	104.5	89.0	76.4
-72.5°	164.3	150.4	135.3	118.9	101.2	90.5	82.5	74.1	64.7	54.2	46.2
-75°	84.4	78.9	73.1	67.1	60.8	54.2	50.2	47.0	43.9	41.0	38.2
-77.5°	50.4	48.5	46.4	44.6	42.6	40.6	38.4	36.4	34.8	33.1	31.4
-80°	37.8	36.5	35.3	34.2	33.1	31.9	30.7	29.4	28.0	26.7	25.4
-82.5°	29.0	28.3	27.6	26.7	25.7	24.6	23.4	22.6	21.8	21.0	20.3
-85°	21.7	21.5	21.2	20.3	19.4	18.6	17.8	17.5	17.3	17.0	16.8
-87.5°	17.1	16.7	16.3	15.9	15.4	15.0	14.6	14.5	14.4	14.2	14.0
-90°	0.0	0.0	0.0	0.4	0.8	1.1	1.5	1.5	1.5	1.5	1.5





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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°	11.5	11.2	10.8	10.4	10.4	10.4	10.4	10.4	9.7	8.9	8.2
87.5°	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.3
85°	2.3	2.5	2.7	3.0	3.0	3.0	3.0	3.0	3.3	3.5	3.7
82.5°	3.0	2.9	2.9	3.0	3.2	3.4	3.4	3.4	3.6	3.8	4.0
80°	3.3	3.5	3.5	3.5	3.6	3.8	4.0	4.1	4.2	4.3	4.5
77.5°	3.8	4.0	4.2	4.3	4.2	4.2	4.3	4.6	4.8	4.9	4.9
75°	4.5	4.4	4.4	4.6	4.6	4.5	4.4	4.6	5.0	5.3	5.4
72.5°	5.5	5.2	4.8	4.7	4.9	4.9	4.7	4.7	5.0	5.4	5.7
70°	7.6	6.3	5.7	5.4	5.3	5.4	5.4	5.2	5.1	5.4	5.8
67.5°	10.4	8.6	7.2	6.2	5.8	5.7	5.9	5.8	5.6	5.5	5.8
65°	20.1	13.5	8.8	7.5	6.5	6.0	6.0	6.3	6.2	6.0	5.9
62.5°	27.6	20.5	14.1	9.7	7.5	6.6	6.1	6.5	6.7	6.5	6.2
60°	32.5	24.7	19.0	13.8	9.6	7.3	6.7	6.8	7.1	7.0	6.6
57.5°	31.2	27.0	22.8	17.5	12.5	8.7	7.4	7.4	7.4	7.4	7.0
55°	27.4	24.0	24.9	21.1	15.4	10.6	8.6	8.1	7.9	7.8	7.4
52.5°	22.5	22.5	24.5	23.7	18.8	12.7	10.4	8.8	8.5	8.3	7.9
50°	18.2	21.4	24.4	25.1	22.0	16.5	12.0	10.1	9.2	8.9	8.4
47.5°	16.5	20.4	23.5	26.6	24.7	20.0	14.8	11.5	9.8	9.4	8.9
45°	18.3	19.9	22.9	25.8	27.6	22.8	17.8	12.8	10.9	10.0	9.5
42.5°	22.0	22.3	23.2	25.1	27.4	25.0	20.6	15.1	11.9	10.5	10.0
40°	27.7	27.0	25.0	27.0	27.4	26.9	22.5	17.5	12.9	11.2	10.5
37.5°	35.0	33.5	30.2	32.1	29.4	27.6	24.0	19.6	14.3	12.2	10.9
35°	63.3	42.0	47.2	44.6	36.5	29.0	25.2	21.4	16.4	13.1	11.4
32.5°	99.5	78.8	83.3	65.5	46.1	31.0	26.6	23.2	18.5	14.1	11.8
30°	167.0	165.5	138.0	92.2	61.2	40.0	29.4	25.3	20.4	15.1	12.4
27.5°	281.5	270.8	213.4	142.9	86.9	51.8	34.0	27.8	22.3	16.3	13.2
25°	398.9	380.2	315.6	211.7	116.3	80.6	39.3	30.6	24.2	17.9	14.0
22.5°	525.2	486.0	430.3	291.9	166.1	118.9	53.9	34.8	26.3	19.3	14.7
20°	649.5	590.5	546.1	360.8	228.0	163.3	81.5	39.5	28.5	20.7	15.5
17.5°	798.8	674.1	591.9	428.8	289.9	208.1	114.0	44.4	30.8	21.9	16.2
15°	1032.8	729.7	632.3	488.7	343.5	252.9	150.4	49.4	33.2	23.0	16.9
12.5°	1245.8	781.4	672.3	540.7	389.7	297.4	189.3	54.6	35.6	24.1	17.5
10°	1445.3	828.9	711.1	585.3	429.3	341.1	229.3	59.7	37.8	25.1	18.0
7.5°	1626.1	872.2	748.1	622.7	459.6	368.9	254.2	64.7	39.8	26.1	18.4
5°	1762.2	904.0	775.8	639.5	467.4	378.5	272.8	69.4	41.7	26.9	18.8
2.5°	1775.1	920.0	796.6	648.7	472.5	385.0	287.0	73.7	43.3	27.7	19.1
0°	1748.8	931.0	813.3	652.5	475.2	388.8	296.4	77.5	44.7	28.3	19.4
-2.5°	1723.9	931.4	814.8	664.0	496.6	400.1	306.9	99.7	59.0	36.3	23.1
-5°	1667.8	927.7	812.1	671.1	514.9	409.2	313.2	120.7	72.7	44.0	26.7
-7.5°	1572.4	909.9	800.5	673.1	529.0	416.2	316.1	140.2	85.4	51.2	29.9
-10°	1445.4	882.1	777.9	662.6	535.7	425.2	317.2	157.8	96.9	57.6	32.9
-12.5°	1290.1	851.3	754.9	652.1	539.9	435.9	320.2	172.5	107.0	63.1	35.4
-15°	1107.8	817.8	732.5	643.1	542.9	444.5	320.2	184.6	116.1	68.4	37.4
-17.5°	906.2	782.0	711.9	636.8	545.1	451.0	317.5	193.9	123.5	73.5	39.7
-20°	864.0	765.4	694.7	634.2	547.1	455.6	312.4	200.3	129.0	77.3	42.0



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	850.1	767.1	700.2	632.2	548.8	458.2	305.1	203.5	132.6	79.6	43.3
-25°	833.8	770.5	708.6	631.9	548.5	445.3	301.7	203.3	134.1	80.3	43.5
-27.5°	830.7	775.9	716.3	625.6	539.1	430.6	300.3	204.4	134.0	79.3	42.7
-30°	836.1	782.3	708.7	613.2	525.4	406.3	294.5	202.7	132.7	77.9	40.7
-32.5°	838.1	788.2	690.6	595.0	499.4	380.9	281.0	198.1	129.1	75.6	39.6
-35°	835.0	768.0	665.2	571.8	468.7	360.7	265.1	190.5	123.0	71.5	38.4
-37.5°	827.8	731.6	635.2	541.4	437.4	337.5	250.8	178.4	114.5	65.8	36.5
-40°	786.5	693.3	600.4	506.6	407.8	311.3	233.7	164.3	105.6	58.2	33.7
-42.5°	743.1	651.8	560.7	470.8	376.0	289.3	214.0	147.6	94.1	52.6	30.2
-45°	694.3	605.6	516.7	428.5	342.2	264.3	192.4	128.9	80.7	47.6	27.3
-47.5°	640.7	553.7	466.7	381.8	310.4	236.3	167.8	111.8	65.9	41.6	26.2
-50°	580.5	495.2	410.5	338.3	272.8	205.1	141.8	92.9	57.6	34.4	24.9
-52.5°	513.9	428.5	357.9	294.9	231.5	170.5	118.0	73.2	48.3	30.8	23.3
-55°	437.8	368.2	308.3	246.5	187.0	138.5	92.1	61.4	38.3	28.7	21.7
-57.5°	372.2	312.3	251.7	193.6	146.2	105.3	72.6	48.6	33.8	26.4	20.6
-60°	304.5	245.3	189.6	146.7	107.9	78.2	56.7	38.3	30.8	24.2	19.4
-62.5°	226.1	176.8	138.8	102.8	77.6	58.5	42.0	34.6	27.7	22.7	18.1
-65°	156.6	121.9	90.5	72.8	55.3	42.2	37.3	30.7	25.7	21.2	17.0
-67.5°	94.4	79.0	63.4	47.7	41.2	36.9	32.3	28.1	23.9	19.6	16.3
-70°	63.1	49.5	42.9	39.4	35.7	31.9	29.3	26.1	22.0	18.6	15.5
-72.5°	43.0	39.9	36.8	33.7	31.0	28.6	26.5	23.9	20.5	17.4	14.7
-75°	35.6	33.4	31.2	28.9	26.9	25.1	23.8	21.9	18.8	16.2	13.6
-77.5°	29.6	27.7	25.8	24.4	23.4	22.3	21.1	19.7	17.2	14.8	12.4
-80°	24.2	23.1	22.1	21.1	20.2	19.4	18.7	17.8	15.6	13.4	11.1
-82.5°	19.6	19.1	18.6	18.1	17.6	17.1	16.6	16.0	13.9	11.9	10.1
-85°	16.5	16.2	15.9	15.6	15.2	14.9	14.6	14.2	12.5	10.9	9.5
-87.5°	13.8	13.6	13.3	13.0	12.8	12.6	12.5	12.3	11.1	9.9	8.8
-90°	1.5	1.5	1.5	1.5	1.9	2.3	2.6	3.0	3.0	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.4	6.7	6.0	5.2	4.5	4.5	4.5
87.5°	3.4	3.6	3.9	4.2	4.5	4.5	4.5
85°	3.8	3.9	4.0	4.2	4.5	4.6	4.5
82.5°	4.2	4.1	4.1	4.3	4.5	4.6	4.5
80°	4.5	4.3	4.3	4.3	4.5	4.6	4.5
77.5°	4.9	4.6	4.4	4.4	4.5	4.7	4.5
75°	5.3	4.9	4.5	4.4	4.5	4.7	4.5
72.5°	5.7	5.2	4.8	4.5	4.5	4.7	4.5
70°	6.0	5.5	5.0	4.5	4.6	4.8	4.5
67.5°	6.0	5.9	5.3	4.7	4.6	4.8	4.5
65°	6.1	6.1	5.5	4.9	4.6	4.8	4.5
62.5°	6.2	6.2	5.8	5.1	4.7	4.9	4.5
60°	6.3	6.3	6.0	5.2	4.7	4.9	4.5
57.5°	6.6	6.4	6.1	5.4	4.8	5.0	4.5
55°	7.0	6.6	6.3	5.6	5.0	5.0	4.5
52.5°	7.3	6.7	6.4	5.7	5.1	5.1	4.5
50°	7.7	7.0	6.6	5.9	5.3	5.1	4.5
47.5°	8.0	7.3	6.7	6.0	5.4	5.1	4.5
45°	8.5	7.6	6.9	6.2	5.5	5.2	4.5
42.5°	9.0	7.9	7.1	6.3	5.7	5.2	4.5
40°	9.5	8.2	7.3	6.5	5.8	5.3	4.5
37.5°	10.0	8.4	7.5	6.6	5.9	5.3	4.5
35°	10.5	8.8	7.7	6.8	6.1	5.4	4.5
32.5°	11.0	9.2	7.9	7.0	6.2	5.4	4.5
30°	11.4	9.6	8.1	7.2	6.3	5.5	4.5
27.5°	11.7	10.0	8.3	7.4	6.4	5.5	4.5
25°	12.1	10.4	8.6	7.5	6.5	5.6	4.5
22.5°	12.4	10.8	8.8	7.7	6.6	5.6	4.5
20°	12.8	11.0	9.0	7.9	6.7	5.7	4.5
17.5°	13.1	11.3	9.2	8.0	6.8	5.7	4.5
15°	13.3	11.5	9.4	8.2	6.9	5.8	4.5
12.5°	13.6	11.6	9.6	8.3	7.0	5.8	4.5
10°	13.9	11.7	9.8	8.4	7.1	5.8	4.5
7.5°	14.2	11.8	10.0	8.6	7.2	5.9	4.5
5°	14.4	11.9	10.1	8.7	7.3	5.9	4.5
2.5°	14.7	11.9	10.3	8.8	7.3	6.0	4.5
0°	14.9	11.9	10.4	8.9	7.4	6.0	4.5
-2.5°	16.3	12.6	10.7	9.0	7.5	6.0	4.5
-5°	17.6	13.2	10.9	9.1	7.5	6.1	4.5
-7.5°	18.8	13.8	11.1	9.2	7.6	6.1	4.5
-10°	19.9	14.3	11.3	9.2	7.6	6.1	4.5
-12.5°	20.9	14.8	11.5	9.3	7.7	6.1	4.5
-15°	21.8	15.2	11.7	9.3	7.7	6.1	4.5
-17.5°	22.5	15.6	11.8	9.4	7.7	6.1	4.5
-20°	23.2	15.8	11.9	9.4	7.7	6.1	4.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.0	16.0	11.9	9.4	7.8	6.1	4.5
-25°	24.4	16.2	11.9	9.4	7.8	6.1	4.5
-27.5°	24.4	16.2	11.9	9.4	7.8	6.1	4.5
-30°	23.8	16.2	11.8	9.4	7.8	6.1	4.5
-32.5°	22.8	16.1	11.8	9.4	7.8	6.1	4.5
-35°	22.3	15.9	11.7	9.4	7.7	6.1	4.5
-37.5°	21.9	15.6	11.6	9.3	7.7	6.0	4.5
-40°	21.5	15.5	11.5	9.3	7.7	6.0	4.5
-42.5°	20.8	15.2	11.4	9.3	7.6	6.0	4.5
-45°	20.0	14.9	11.3	9.2	7.6	5.9	4.5
-47.5°	19.1	14.5	11.3	9.2	7.5	5.9	4.5
-50°	18.4	14.0	11.2	9.1	7.5	5.8	4.5
-52.5°	17.8	13.5	11.1	9.0	7.4	5.8	4.5
-55°	17.0	13.2	10.9	8.9	7.4	5.7	4.5
-57.5°	16.1	13.0	10.7	8.8	7.3	5.6	4.5
-60°	15.2	12.7	10.5	8.6	7.2	5.6	4.5
-62.5°	14.7	12.4	10.2	8.4	7.0	5.5	4.5
-65°	14.2	12.0	9.9	8.2	6.8	5.4	4.5
-67.5°	13.7	11.5	9.5	8.0	6.6	5.3	4.5
-70°	13.1	10.9	9.1	7.8	6.4	5.2	4.5
-72.5°	12.2	10.2	8.6	7.5	6.2	5.2	4.5
-75°	11.2	9.5	8.2	7.2	6.0	5.1	4.5
-77.5°	10.1	8.8	7.8	6.8	5.7	5.0	4.5
-80°	9.0	8.2	7.4	6.5	5.5	4.9	4.5
-82.5°	8.5	7.9	7.1	6.2	5.3	4.8	4.5
-85°	8.2	7.5	6.7	5.9	5.0	4.7	4.5
-87.5°	7.8	7.1	6.3	5.6	4.8	4.6	4.5
-90°	3.0	3.4	3.8	4.1	4.5	4.5	4.5

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

