

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: P701467 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-3S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701467 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-70-3S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

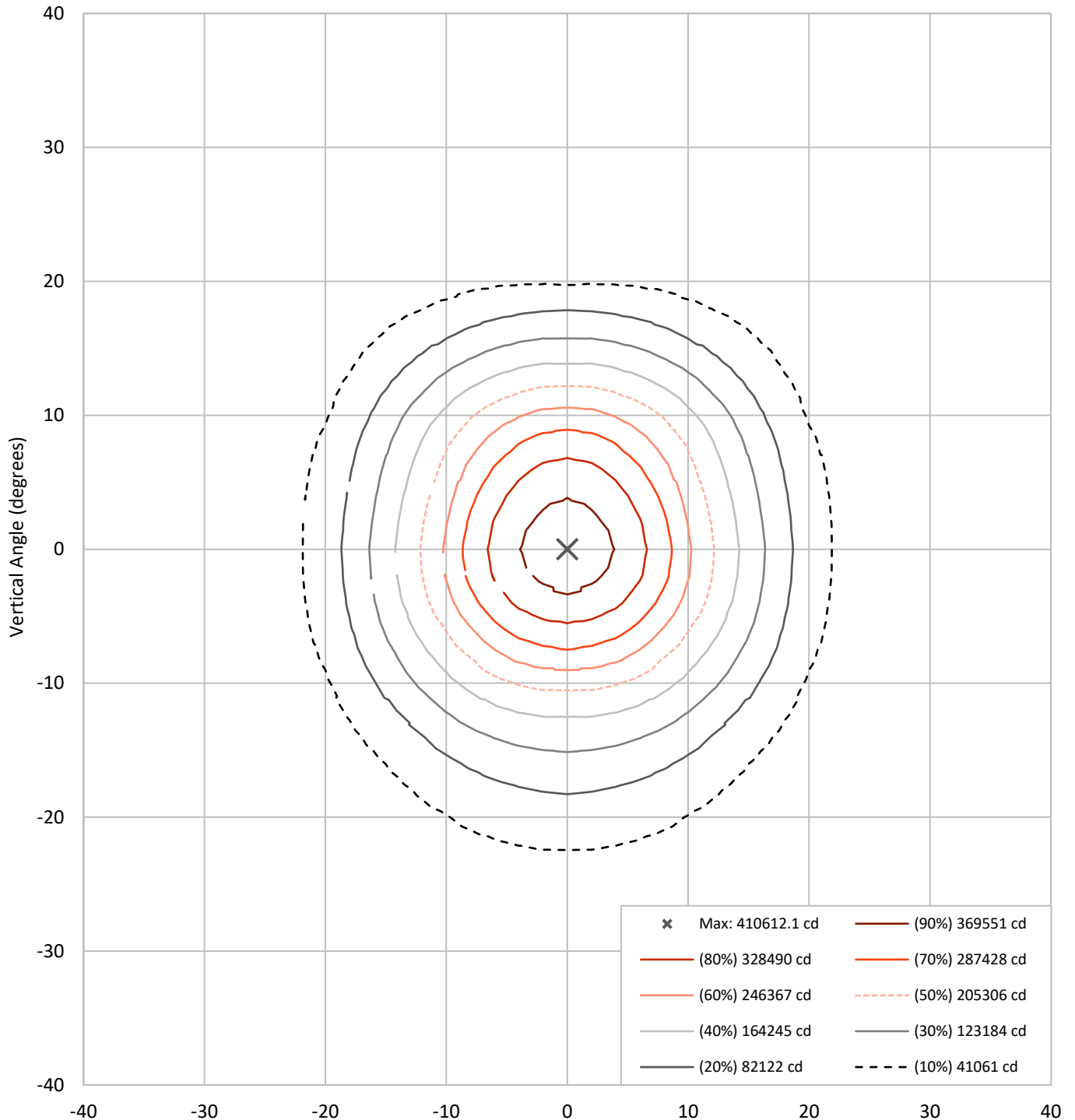
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85102.7 lumens	Max Intensity:	410612.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.3°H x 22.7°V	Field Angle (10%):	43.8°H x 42.1°V
Beam Lumens:	40129.9 lumens	Field Lumens:	72496.4 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

Input Watts (W): 658  
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





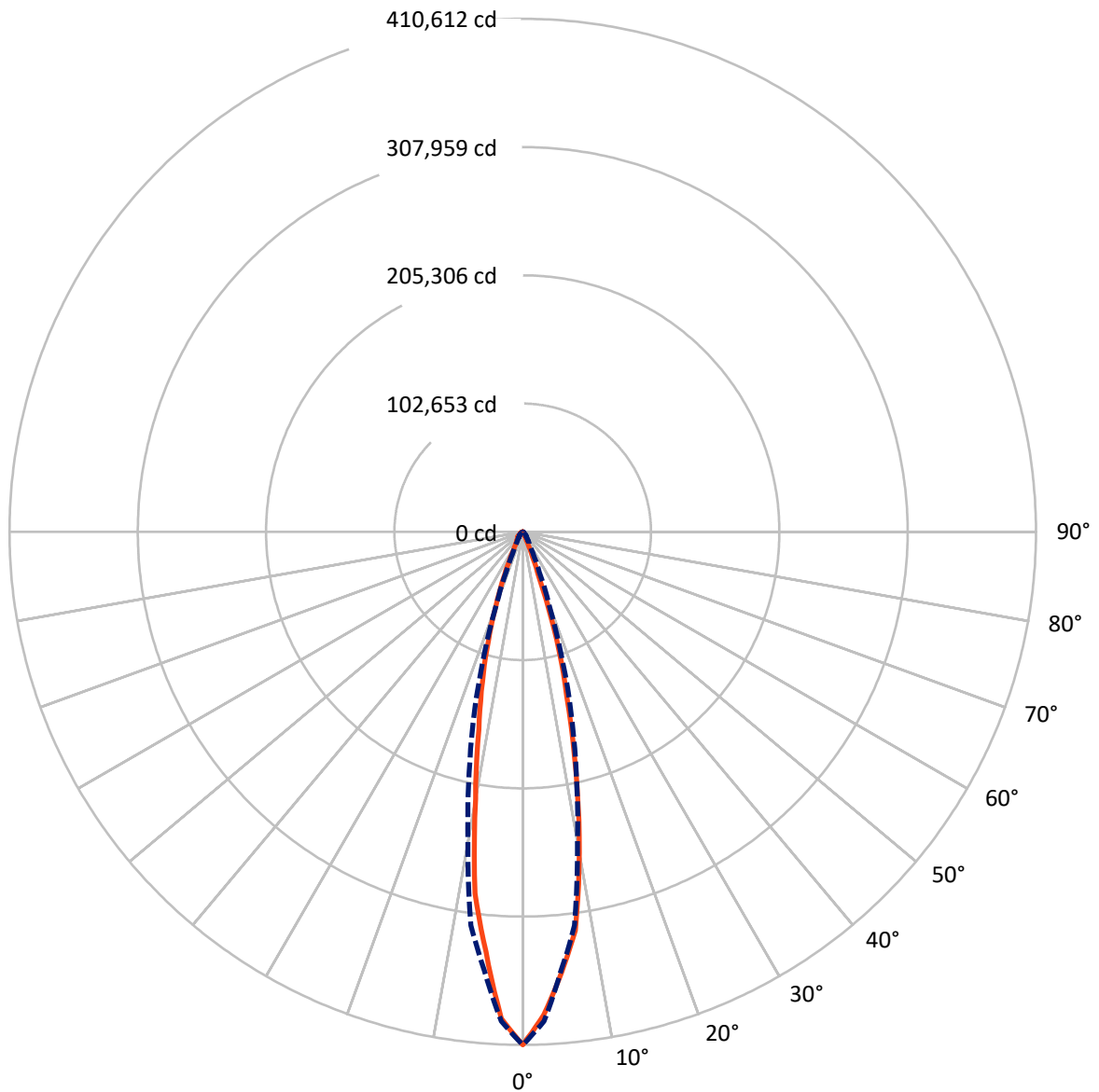
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### Lumen Table

90	0.1		0.3		0.5		0.5		0.6		0.5		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.5		0.6		0.5		0.5		0.3		0.1	
70	0.1	0.1	0.2	0.7	0.9	0.6	0.4	0.4	0.4	0.4	0.6	0.9	0.7	0.2	0.1	0.1	0.1	0.1
60		0.1	0.5	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9	0.5	0.1			
50	0.2	0.3	0.7	0.7	0.8	1.2	2.2	1.5	1.5	2.2	1.2	0.8	0.7	0.7	0.3	0.2	0.2	0.2
40		0.4	1.4	3.3	6.0	8.7	11.9	14.2	14.2	11.9	8.7	6.0	3.3	1.4	0.4			
30	0.3	0.8	5.8	18.1	42.0	69.9	143.5	276.3	276.3	143.5	69.9	42.0	18.1	5.8	0.8	0.3	0.3	0.3
20		1.8	12.4	46.2	111.9	296.2	1630.9	3848.9	3848.9	1630.9	296.2	111.9	46.2	12.4	1.8			
10	0.4	2.7	16.5	61.5	144.0	631.7	3909.9	9169.6	9169.6	3909.9	631.7	144.0	61.5	16.5	2.7	0.4	0.4	0.4
0		3.3	17.7	62.5	144.3	625.6	3841.6	8787.3	8787.3	3841.6	625.6	144.3	62.5	17.7	3.3			
-10	0.7	4.0	16.7	51.9	113.4	298.6	1557.5	3515.3	3515.3	1557.5	298.6	113.4	51.9	16.7	4.0	0.7	0.7	0.7
-20		4.2	15.5	38.9	96.7	169.3	387.6	792.3	792.3	387.6	169.3	96.7	38.9	15.5	4.2			
-30	0.6	3.7	13.4	29.4	71.3	139.9	196.6	241.5	241.5	196.6	139.9	71.3	29.4	13.4	3.7	0.6	0.6	0.6
-40		2.6	10.1	23.2	43.3	76.9	125.9	161.1	161.1	125.9	76.9	43.3	23.2	10.1	2.6			
-50	0.3	1.3	6.2	15.6	29.5	45.5	60.9	70.5	70.5	60.9	45.5	29.5	15.6	6.2	1.3	0.3	0.3	0.3
-60		0.5	2.1	6.8	13.8	21.8	29.8	34.4	34.4	29.8	21.8	13.8	6.8	2.1	0.5			
-70	0.2	1.2	4.3	11.2	15.2	11.2	4.3	1.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
-80		1.2	4.3	11.2	15.2	11.2	4.3	1.2	0.2									
-90	0.2		1.2		4.3		11.2		15.2		11.2		4.3		1.2		0.2	

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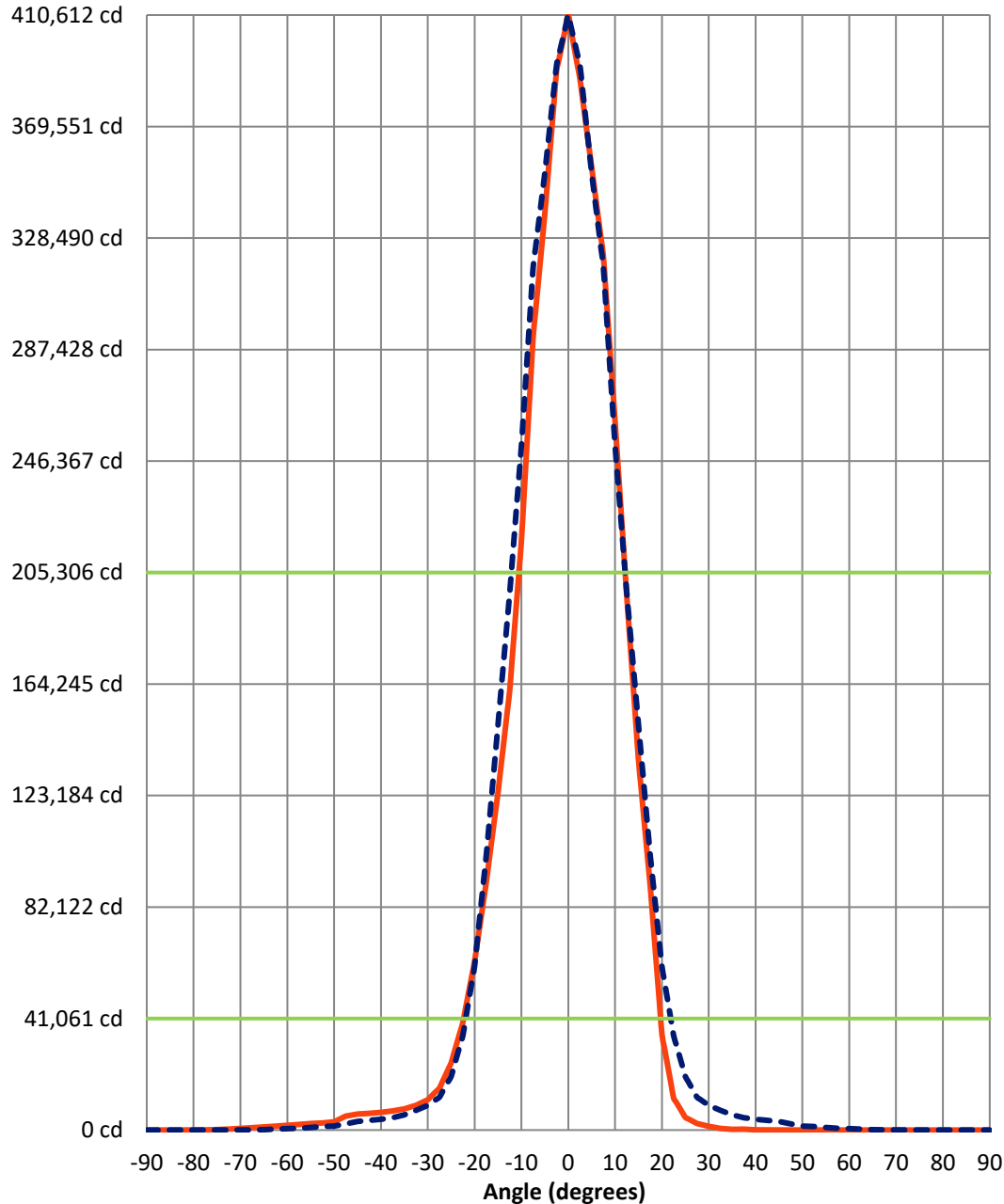
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.3°  
 V Angle: 22.7°  
 Lumens: 40129.9  
 Efficiency: 47.2%

**Field:**  
 H Angle: 43.8°  
 V Angle: 42.1°  
 Lumens: 72496.4  
 Efficiency: 85.2%

**Spill:**  
 Lumens: 12606.3  
 Efficiency: 14.8%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.2	5.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
87.5°	4.2	4.3	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.2
85°	4.2	4.4	4.6	4.6	4.6	4.4	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.5	4.7	4.8	4.8	4.6	4.2	4.2	4.2	4.3	4.2
80°	4.2	4.6	4.9	5.0	4.9	4.7	4.3	4.5	4.6	4.5	4.2
77.5°	4.2	4.7	5.1	5.2	5.1	4.9	4.8	5.0	5.0	4.8	4.3
75°	4.2	4.7	5.3	5.5	5.3	5.2	5.4	5.5	5.4	4.9	4.4
72.5°	4.2	4.8	5.5	5.7	5.5	5.6	5.9	5.9	5.4	4.9	4.4
70°	4.2	4.9	5.6	5.9	5.7	5.9	6.3	6.0	5.5	5.0	5.1
67.5°	4.2	5.0	5.8	6.0	5.9	6.2	6.3	6.0	5.6	5.5	5.8
65°	4.2	5.1	6.0	6.0	6.0	6.3	6.3	6.1	5.8	6.0	6.3
62.5°	4.2	5.2	6.1	6.1	6.2	6.3	6.3	6.2	6.1	6.4	6.6
60°	4.2	5.2	6.3	6.1	6.3	6.3	6.3	6.3	6.3	6.7	6.8
57.5°	4.2	5.3	6.3	6.2	6.3	6.3	6.4	6.3	6.7	7.2	7.2
55°	4.2	5.4	6.3	6.2	6.3	6.3	6.5	6.4	7.2	7.6	7.6
52.5°	4.2	5.5	6.3	6.3	6.3	6.3	6.7	6.9	7.7	8.2	8.2
50°	4.2	5.5	6.3	6.3	6.3	6.5	6.9	7.5	8.3	8.9	11.0
47.5°	4.2	5.6	6.3	6.3	6.3	6.7	7.1	8.1	9.0	9.6	13.8
45°	4.2	5.7	6.3	6.3	6.3	6.9	7.6	8.6	9.7	11.8	16.4
42.5°	4.2	5.7	6.3	6.3	6.3	7.2	8.1	9.2	10.3	13.8	21.1
40°	4.2	5.8	6.3	6.3	6.4	7.4	8.5	9.7	11.2	15.6	26.0
37.5°	4.2	5.9	6.3	6.3	6.6	7.7	9.0	10.3	12.6	17.9	30.7
35°	4.2	5.9	6.3	6.3	6.8	8.0	9.4	10.8	13.9	22.1	34.5
32.5°	4.2	6.0	6.3	6.3	7.0	8.4	9.8	11.3	15.1	26.4	37.9
30°	4.2	6.0	6.3	6.3	7.2	8.7	10.2	11.9	16.1	30.6	41.4
27.5°	4.2	6.1	6.3	6.3	7.4	9.0	10.6	12.7	18.0	34.8	45.0
25°	4.2	6.1	6.3	6.3	7.5	9.3	11.0	13.5	21.3	38.1	48.8
22.5°	4.2	6.1	6.3	6.3	7.7	9.6	11.3	14.2	24.5	41.1	55.7
20°	4.2	6.2	6.3	6.3	7.8	9.8	11.7	14.8	27.5	44.1	63.0
17.5°	4.2	6.2	6.3	6.3	7.9	9.9	12.0	15.3	30.3	46.9	70.7
15°	4.2	6.2	6.3	6.3	8.0	10.0	12.4	15.9	32.9	49.7	78.6
12.5°	4.2	6.3	6.3	6.3	8.1	10.1	12.8	16.8	36.0	52.4	86.5
10°	4.2	6.3	6.3	6.3	8.2	10.2	13.2	17.7	39.4	56.7	95.4
7.5°	4.2	6.3	6.3	6.3	8.2	10.3	13.6	18.6	42.5	61.1	106.3
5°	4.2	6.3	6.3	6.3	8.3	10.4	14.0	19.4	45.4	65.4	116.9
2.5°	4.2	6.3	6.3	6.3	8.3	10.4	14.3	20.2	48.0	69.3	126.7
0°	4.2	6.3	6.3	6.3	8.3	10.4	14.6	20.9	50.1	73.0	135.6
-2.5°	4.2	6.3	6.4	6.6	8.7	11.3	17.1	27.4	61.6	91.7	159.7
-5°	4.2	6.3	6.5	6.8	9.0	12.2	19.5	33.7	72.4	109.7	182.3
-7.5°	4.2	6.3	6.6	7.1	9.3	13.0	21.7	39.5	82.3	126.6	203.1
-10°	4.2	6.3	6.6	7.3	9.6	13.8	23.7	44.8	91.0	142.0	221.8
-12.5°	4.2	6.3	6.7	7.6	9.9	14.5	25.5	49.3	98.5	155.7	240.6
-15°	4.2	6.2	6.8	7.8	10.2	15.1	26.9	53.0	105.1	168.2	257.3
-17.5°	4.2	6.2	6.8	8.0	10.5	15.6	28.0	56.5	110.9	178.7	270.1
-20°	4.2	6.2	6.9	8.2	10.7	15.9	29.0	59.4	114.8	186.9	278.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.2	6.2	6.9	8.4	10.9	16.2	30.0	61.1	116.7	192.7	282.4
-25°	4.2	6.1	7.0	8.5	11.1	16.4	30.3	61.4	116.3	195.9	281.3
-27.5°	4.2	6.1	7.0	8.7	11.3	16.4	29.8	60.2	113.7	196.1	283.9
-30°	4.2	6.1	7.0	8.7	11.4	16.3	28.6	57.5	111.1	192.6	283.4
-32.5°	4.2	6.1	7.0	8.8	11.5	16.1	26.6	55.6	107.8	185.9	279.4
-35°	4.2	6.0	7.0	8.9	11.5	15.6	25.5	53.1	102.3	175.9	271.6
-37.5°	4.2	6.0	7.0	8.9	11.5	15.1	24.9	49.4	94.5	162.7	254.3
-40°	4.2	6.0	7.0	8.8	11.5	15.1	23.9	44.5	84.4	150.3	232.8
-42.5°	4.2	5.9	6.9	8.8	11.4	15.0	22.7	38.3	75.8	134.5	208.1
-45°	4.2	5.9	6.9	8.7	11.3	14.8	21.1	33.3	67.2	116.0	181.3
-47.5°	4.2	5.9	6.8	8.6	11.1	14.5	19.3	31.0	56.9	95.5	157.8
-50°	4.2	5.8	6.7	8.5	10.9	14.1	18.5	28.4	44.5	81.3	131.6
-52.5°	4.2	5.8	6.6	8.3	10.7	13.7	17.9	25.3	37.9	65.8	104.1
-55°	4.2	5.8	6.5	8.1	10.4	13.3	17.2	22.2	33.7	49.1	84.9
-57.5°	4.2	5.7	6.4	8.0	10.2	12.8	16.3	21.1	29.2	41.1	64.3
-60°	4.2	5.7	6.3	7.8	9.8	12.4	15.4	19.8	25.1	35.6	47.5
-62.5°	4.2	5.7	6.3	7.5	9.5	11.9	14.7	18.4	23.4	29.7	40.7
-65°	4.2	5.6	6.3	7.3	9.1	11.3	13.9	17.1	21.6	26.7	33.5
-67.5°	4.2	5.6	6.3	7.0	8.7	10.7	13.1	16.1	19.7	24.4	29.4
-70°	4.2	5.6	6.3	6.8	8.3	10.1	12.3	15.1	18.4	22.0	26.5
-72.5°	4.2	5.5	6.3	6.7	7.8	9.4	11.4	13.9	16.9	20.2	23.7
-75°	4.2	5.5	6.3	6.6	7.3	8.7	10.4	12.7	15.4	18.3	21.4
-77.5°	4.2	5.5	6.3	6.6	7.1	8.0	9.4	11.5	13.8	16.4	19.1
-80°	4.2	5.4	6.3	6.5	7.0	7.6	8.4	10.2	12.2	14.3	16.6
-82.5°	4.2	5.4	6.3	6.5	6.8	7.3	7.8	9.0	10.5	12.2	14.1
-85°	4.2	5.3	6.3	6.4	6.6	6.9	7.3	8.1	9.1	10.2	11.5
-87.5°	4.2	5.3	6.3	6.4	6.5	6.6	6.8	7.2	7.7	8.3	8.9
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2





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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°	6.8	7.3	7.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	3.7	3.2	2.8	2.4	2.4	2.4	2.3	2.1	2.1	2.1	2.1
82.5°	3.9	3.7	3.6	3.6	3.4	3.1	2.7	2.4	2.4	2.4	2.3
80°	4.1	4.2	4.2	4.2	4.0	3.8	3.7	3.8	3.7	3.4	3.1
77.5°	4.2	4.2	4.2	4.2	4.2	4.4	4.7	5.2	5.2	5.0	4.8
75°	4.2	4.2	4.3	4.3	4.4	4.9	5.6	6.1	6.1	5.9	5.9
72.5°	4.5	4.8	4.8	4.5	4.9	5.6	6.0	6.3	7.5	9.2	10.4
70°	5.4	5.5	5.4	5.5	5.9	6.8	9.0	11.8	14.8	16.9	19.7
67.5°	6.2	5.9	6.0	6.5	8.0	10.4	13.7	21.0	29.2	32.4	34.0
65°	6.3	6.2	6.8	8.2	10.2	16.3	24.4	34.0	44.0	46.3	46.1
62.5°	6.3	6.6	7.7	10.8	16.6	24.3	34.8	45.6	56.1	54.4	48.0
60°	6.5	6.8	10.5	16.7	23.7	34.0	45.5	51.2	54.6	54.2	46.7
57.5°	6.8	9.2	15.5	23.4	33.3	42.2	45.9	49.3	51.3	53.0	43.9
55°	8.5	13.4	21.4	31.8	39.9	41.6	43.8	45.0	46.7	43.4	33.6
52.5°	12.3	18.2	28.7	37.8	41.3	41.0	38.9	39.1	36.2	31.6	26.7
50°	15.9	25.0	35.0	40.7	42.3	39.2	33.7	32.0	29.0	25.2	21.8
47.5°	21.2	31.7	38.8	43.5	42.5	38.1	31.6	27.7	24.5	23.6	20.3
45°	27.1	36.3	43.1	45.1	42.9	37.2	32.0	24.9	26.5	26.2	25.9
42.5°	32.8	40.2	45.9	47.6	42.9	39.1	34.5	32.9	32.7	36.8	39.7
40°	36.4	43.9	49.3	49.8	44.6	43.6	46.8	48.8	46.9	54.0	60.0
37.5°	39.6	47.7	54.4	56.9	50.4	55.5	63.4	85.4	87.5	74.9	96.0
35°	42.7	52.2	64.7	74.4	74.0	74.5	108.2	141.6	157.2	137.6	155.9
32.5°	46.5	57.4	78.8	104.1	125.1	128.4	165.0	232.9	264.8	266.2	263.6
30°	51.9	70.8	100.9	142.6	195.6	247.1	274.9	349.6	400.8	488.5	555.0
27.5°	59.6	88.1	138.0	207.7	291.4	393.4	455.5	498.7	625.1	789.1	965.8
25°	68.3	123.0	180.9	291.1	433.3	563.0	642.2	694.1	914.7	1240.0	1467.6
22.5°	87.2	167.9	243.7	385.9	593.6	739.4	823.0	990.3	1332.4	1769.0	2038.5
20°	120.0	222.9	317.3	472.4	757.6	919.9	999.1	1331.0	1859.1	2306.9	2678.1
17.5°	157.8	278.2	390.4	573.7	849.7	1058.9	1193.4	1695.9	2420.2	2822.5	3247.6
15°	199.4	333.5	455.5	663.7	938.5	1141.1	1432.2	2135.7	2933.5	3317.6	3756.2
12.5°	243.4	388.2	513.1	742.6	1026.0	1217.2	1646.0	2449.3	3198.5	3718.6	4287.5
10°	288.4	441.5	563.9	810.7	1110.4	1287.1	1846.8	2710.8	3338.6	3827.7	4491.7
7.5°	316.2	478.2	605.5	868.3	1189.8	1351.0	2030.1	2921.9	3438.0	3892.3	4519.5
5°	336.4	495.9	626.0	907.6	1245.2	1401.8	2179.7	3084.7	3502.6	3918.1	4470.1
2.5°	351.3	509.7	643.4	937.0	1279.2	1436.7	2250.0	3147.3	3545.4	3949.7	4477.4
0°	360.9	519.5	657.2	957.6	1301.8	1466.7	2286.6	3169.1	3571.7	3976.5	4552.3
-2.5°	373.7	533.8	679.1	978.6	1307.5	1473.3	2292.0	3160.5	3586.8	4040.4	4633.3
-5°	382.2	544.0	696.6	990.3	1303.4	1474.2	2263.2	3115.4	3565.0	4024.7	4602.1
-7.5°	387.1	550.3	709.2	991.3	1281.0	1451.9	2165.0	2973.5	3442.6	3874.0	4441.4
-10°	391.3	559.2	721.0	974.5	1237.9	1413.0	2026.4	2805.0	3306.8	3704.1	4237.0
-12.5°	404.4	571.3	729.8	954.1	1193.7	1369.2	1857.0	2615.0	3160.3	3517.5	4016.5
-15°	413.6	581.1	735.0	931.9	1150.9	1320.7	1657.9	2408.0	3048.6	3449.9	3877.7
-17.5°	419.0	588.9	736.9	909.4	1111.8	1268.0	1439.0	2215.9	2959.7	3413.2	3808.2
-20°	420.6	595.3	735.6	888.0	1077.4	1236.6	1390.4	1982.8	2742.3	3354.8	3746.8



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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°	418.6	600.5	733.7	878.3	1055.2	1222.5	1371.8	1725.1	2455.2	3270.6	3668.3
-25°	417.3	593.3	733.4	864.6	1030.1	1205.5	1352.6	1484.2	2132.4	2946.7	3562.8
-27.5°	414.7	582.3	718.6	842.8	998.8	1181.6	1329.9	1459.7	1835.0	2578.6	3396.9
-30°	405.4	552.6	698.4	815.7	967.1	1141.1	1304.3	1441.9	1582.1	2202.8	2966.3
-32.5°	384.4	520.2	665.0	789.2	927.7	1094.2	1267.9	1410.3	1552.8	1780.5	2504.6
-35°	362.2	489.6	626.0	756.4	880.1	1040.2	1206.2	1368.1	1509.8	1658.8	2012.1
-37.5°	345.1	456.1	585.4	715.4	838.2	978.8	1137.7	1301.5	1454.2	1608.0	1781.9
-40°	324.4	419.8	544.9	669.4	792.0	919.0	1065.6	1220.4	1380.4	1557.5	1720.6
-42.5°	299.7	392.7	502.2	622.0	740.9	862.8	989.4	1136.0	1303.3	1490.5	1663.1
-45°	268.6	361.8	458.5	570.8	685.7	801.8	922.1	1049.0	1216.8	1395.6	1579.1
-47.5°	234.0	325.9	419.2	515.2	625.5	737.5	849.9	978.1	1119.8	1286.2	1464.6
-50°	198.0	283.0	374.3	463.0	560.3	667.8	776.2	899.8	1033.4	1172.0	1328.1
-52.5°	165.2	236.3	321.5	409.5	496.9	592.2	698.1	813.4	937.1	1068.9	1197.4
-55°	129.4	193.0	263.8	347.6	433.9	518.8	609.8	715.5	829.3	949.8	1070.0
-57.5°	100.5	148.3	209.1	279.1	360.8	445.4	526.3	610.6	710.2	818.2	923.4
-60°	75.4	109.5	155.6	214.9	280.6	358.6	439.3	517.2	596.2	676.0	769.1
-62.5°	52.3	78.8	110.8	151.8	208.1	269.0	339.7	414.0	489.4	558.0	626.0
-65°	43.9	52.8	74.8	104.8	136.5	188.0	244.6	303.9	370.1	429.4	490.4
-67.5°	35.2	43.3	51.2	63.1	90.4	120.3	152.3	202.4	254.0	296.7	340.4
-70°	30.7	34.3	40.8	47.8	54.7	66.8	92.9	120.8	148.6	176.4	212.1
-72.5°	27.0	30.0	33.3	36.8	42.5	48.2	54.1	60.0	75.6	96.8	116.4
-75°	23.7	25.7	28.3	31.2	34.0	36.6	39.5	44.4	49.3	54.1	59.0
-77.5°	20.7	22.3	23.9	25.8	27.8	30.1	32.3	34.5	36.5	38.4	40.5
-80°	17.8	18.8	19.9	21.2	22.5	24.0	25.6	27.3	28.6	29.9	31.2
-82.5°	14.9	15.6	16.3	17.0	17.7	18.3	19.0	20.0	21.0	21.9	22.7
-85°	12.1	12.5	13.0	13.4	13.9	14.3	14.7	15.1	15.5	15.8	16.2
-87.5°	9.4	9.9	10.3	10.7	10.9	11.0	11.1	11.3	11.4	11.5	11.6
-90°	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.3	8.8	9.4	9.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.8	2.7	2.6	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	4.5	4.2	4.0	3.6	3.3	3.1	2.9	2.6	2.2	2.1	2.1
75°	6.1	6.2	6.2	6.0	5.4	4.9	4.6	4.3	3.9	3.9	4.0
72.5°	11.0	11.0	10.6	10.5	9.9	9.6	9.6	9.5	9.1	9.3	9.7
70°	21.3	21.9	21.5	20.1	17.9	16.2	15.3	14.1	12.6	12.4	13.0
67.5°	33.6	32.1	30.2	27.7	24.0	20.8	19.2	17.6	16.2	15.8	16.2
65°	42.8	36.3	31.9	28.2	25.2	22.2	20.2	18.2	16.3	15.1	14.9
62.5°	41.3	33.9	29.0	25.7	22.9	20.5	18.0	15.6	13.2	11.7	11.8
60°	38.8	30.6	24.2	21.1	18.6	16.8	14.6	12.7	11.3	10.4	10.5
57.5°	33.0	24.1	18.5	17.0	15.3	13.4	11.9	11.2	10.7	10.4	10.4
55°	25.5	20.4	17.0	15.1	13.3	11.6	10.5	10.7	10.7	10.4	10.9
52.5°	21.0	18.0	15.7	13.9	13.1	12.6	12.3	12.4	12.6	12.9	13.2
50°	18.8	16.7	15.7	14.4	14.4	14.4	14.4	15.1	15.7	15.9	15.7
47.5°	19.0	18.1	19.1	16.6	17.0	18.6	18.7	18.9	20.2	20.6	20.4
45°	23.9	28.8	28.9	26.6	25.2	30.8	31.2	28.2	43.3	42.4	32.1
42.5°	42.6	45.4	45.6	48.1	53.4	70.2	101.3	129.4	133.7	117.5	80.6
40°	68.8	66.4	71.7	86.1	127.5	165.4	194.0	279.7	279.0	218.3	219.9
37.5°	112.0	109.4	117.5	161.0	174.4	150.7	212.3	218.3	186.9	222.8	225.9
35°	192.8	218.5	190.5	236.5	238.7	213.5	229.2	255.7	218.0	260.9	279.5
32.5°	351.4	396.9	401.1	397.6	421.3	444.5	430.9	495.5	507.1	550.0	597.1
30°	570.9	658.4	725.3	712.4	751.7	820.7	843.3	941.9	1040.3	1101.2	1250.6
27.5°	994.8	1039.0	1176.2	1272.7	1250.3	1363.1	1586.6	1655.8	1937.9	2072.9	2267.4
25°	1575.3	1653.7	1849.2	2078.4	2176.6	2365.4	2728.6	2902.4	3272.9	3462.0	4175.1
22.5°	2294.4	2560.2	2805.5	3113.4	3555.4	3930.7	4334.5	5013.3	6115.9	7700.3	9591.7
20°	3115.5	3560.9	3931.8	4500.8	5233.4	5939.4	6984.0	9995.6	13194.3	19866.0	24399.0
17.5°	3892.3	4599.4	5117.6	5873.2	6955.4	8722.5	12320.7	19052.6	29632.5	42556.8	54894.0
15°	4498.4	5221.2	6181.8	7322.2	8975.1	12433.4	19005.9	32311.9	52483.4	72177.3	92898.6
12.5°	5010.7	5775.1	6827.9	8372.9	10845.0	17061.1	28878.4	48922.3	75513.3	104831.3	135808.6
10°	5340.4	6268.6	7529.5	9569.9	13678.0	22509.4	37872.3	64731.6	100474.4	138751.9	173182.3
7.5°	5398.4	6531.0	8128.2	10610.1	16489.0	28192.9	48569.9	80166.6	119312.2	162423.7	205786.2
5°	5421.5	6775.4	8634.1	11427.2	18420.1	32304.1	54732.4	90055.2	133521.1	177797.2	224465.5
2.5°	5483.4	7015.3	9005.4	11998.9	19534.2	34755.6	58293.6	97138.5	142994.8	191073.3	243105.7
0°	5612.1	7266.5	9085.8	12096.3	19767.5	34807.6	60347.9	101197.3	149173.5	197748.5	252021.1
-2.5°	5681.9	7234.4	9018.0	11897.6	19466.6	34813.1	58373.6	98373.4	145951.5	193345.0	248036.3
-5°	5562.1	6911.3	8600.8	11297.9	18149.7	32029.0	54451.8	91081.9	134996.3	177608.4	221587.5
-7.5°	5304.9	6456.7	8007.8	10446.4	16107.6	27713.7	47363.1	77441.3	114731.6	151776.7	186040.1
-10°	5005.3	5974.9	7247.1	9210.1	13221.8	21913.0	37059.2	60725.5	92755.9	124557.5	153472.8
-12.5°	4682.0	5437.1	6379.0	7736.7	10234.2	16545.7	28086.1	46225.0	68373.0	92363.6	118627.6
-15°	4405.7	4962.4	5676.3	6832.6	8737.7	12326.3	18852.9	30923.7	46805.4	65612.8	84973.3
-17.5°	4219.9	4633.9	5255.6	6137.7	7308.7	9440.2	14163.9	21320.5	31539.2	45615.3	58401.8
-20°	4086.6	4475.9	4969.3	5663.8	6644.6	8147.4	10458.8	15391.3	22115.6	31239.1	39918.3



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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°	3991.5	4341.8	4758.8	5317.7	6193.5	7367.9	8843.3	11237.3	15472.0	20852.2	26886.1
-25°	3898.0	4188.5	4648.4	5249.3	5851.3	6691.7	7711.4	8886.7	11142.8	13534.8	17238.6
-27.5°	3791.0	4150.4	4664.2	5225.6	5768.0	6185.1	6908.9	7719.6	8914.2	10070.5	11973.4
-30°	3713.0	4172.7	4683.9	5223.4	5641.3	6009.9	6414.7	7034.3	7807.3	8624.6	9499.3
-32.5°	3325.0	4104.3	4629.0	5112.7	5458.3	5800.9	6159.5	6589.3	7083.5	7601.2	8132.6
-35°	2804.9	3634.9	4448.9	4828.1	5178.4	5523.9	5897.9	6246.0	6594.7	6944.8	7278.5
-37.5°	2167.5	2980.9	3749.9	4412.4	4814.6	5166.4	5565.1	5922.4	6228.1	6491.3	6748.1
-40°	1893.5	2177.6	2921.5	3618.8	4204.1	4761.6	5137.3	5533.2	5874.2	6116.9	6334.9
-42.5°	1818.1	1978.1	2143.0	2677.8	3324.1	3897.1	4406.8	4902.0	5370.7	5708.2	5967.6
-45°	1752.7	1888.1	2029.4	2187.1	2344.6	2847.0	3376.9	3910.3	4462.0	4955.9	5355.7
-47.5°	1631.6	1795.6	1934.7	2065.2	2190.5	2333.4	2481.1	2693.5	3177.7	3671.8	4122.2
-50°	1482.1	1635.7	1790.8	1945.1	2061.1	2170.8	2283.1	2409.9	2551.0	2694.9	2816.3
-52.5°	1319.1	1460.4	1603.6	1739.8	1869.7	1995.9	2119.2	2230.9	2336.1	2437.5	2497.1
-55°	1186.8	1299.9	1412.7	1529.4	1647.9	1763.4	1878.0	1993.5	2104.8	2211.1	2270.5
-57.5°	1032.4	1145.1	1253.1	1342.1	1434.0	1527.9	1625.9	1725.5	1823.0	1913.9	1965.0
-60°	864.8	962.6	1056.1	1142.4	1227.6	1310.8	1391.2	1470.1	1546.0	1612.0	1652.1
-62.5°	696.2	775.8	853.3	926.8	998.3	1068.5	1143.6	1214.9	1282.0	1336.3	1369.6
-65°	552.4	613.1	667.0	719.8	772.0	832.1	896.1	956.7	1013.5	1057.7	1087.0
-67.5°	391.2	443.4	492.8	539.9	583.3	626.1	671.6	716.0	758.9	792.0	815.5
-70°	246.4	279.4	312.0	346.8	384.7	422.4	459.9	494.5	526.0	549.7	567.6
-72.5°	134.3	150.2	166.8	191.5	215.1	240.3	266.1	290.5	313.2	329.2	341.1
-75°	63.8	70.9	83.7	95.1	105.3	116.4	127.5	137.8	147.2	152.1	154.9
-77.5°	43.7	47.2	50.4	53.3	55.8	59.1	62.7	66.3	69.8	72.0	73.8
-80°	32.6	34.0	35.4	36.8	38.2	39.8	41.2	42.6	43.8	45.0	46.0
-82.5°	23.5	24.3	25.0	25.7	26.3	27.3	28.3	29.3	30.2	31.0	31.8
-85°	16.5	17.0	17.4	17.7	18.0	18.6	19.2	19.8	20.5	20.6	20.7
-87.5°	11.7	12.4	13.0	13.6	14.2	14.3	14.3	14.4	14.5	14.5	14.5
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.1



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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°	10.4	10.4	11.5	12.5	11.5	10.4	10.4	10.4	10.4	10.4	10.4
87.5°	0.5	0.0	1.0	2.1	1.0	0.0	0.5	1.1	1.6	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	3.1	4.2	3.1	2.1	2.1	2.1	2.1	2.2	2.6
75°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	3.9	4.3
72.5°	10.0	10.2	10.4	10.4	10.4	10.2	10.0	9.7	9.3	9.1	9.5
70°	13.7	14.4	14.6	14.6	14.6	14.4	13.7	13.0	12.4	12.6	14.1
67.5°	16.5	16.6	16.7	16.7	16.7	16.6	16.5	16.2	15.8	16.2	17.6
65°	14.8	14.7	13.7	12.5	13.7	14.7	14.8	14.9	15.1	16.3	18.2
62.5°	12.1	12.5	12.5	12.5	12.5	12.5	12.1	11.8	11.7	13.2	15.6
60°	10.6	10.5	10.4	10.4	10.4	10.5	10.6	10.5	10.4	11.3	12.7
57.5°	10.4	10.4	11.2	12.5	11.2	10.4	10.4	10.4	10.4	10.7	11.2
55°	11.5	12.2	12.5	12.5	12.5	12.2	11.5	10.9	10.4	10.7	10.7
52.5°	13.1	12.7	12.5	12.5	12.5	12.7	13.1	13.2	12.9	12.6	12.4
50°	15.3	14.8	14.6	14.6	14.6	14.8	15.3	15.7	15.9	15.7	15.1
47.5°	20.0	19.2	18.7	18.8	18.7	19.2	20.0	20.4	20.6	20.2	18.9
45°	32.9	33.0	33.1	33.4	33.1	33.0	32.9	32.1	42.4	43.3	28.2
42.5°	77.4	66.9	57.8	58.4	57.8	66.9	77.4	80.6	117.5	133.7	129.4
40°	198.2	148.3	98.6	83.5	98.6	148.3	198.2	219.9	218.3	279.0	279.7
37.5°	204.1	208.2	245.0	329.6	245.0	208.2	204.1	225.9	222.8	186.9	218.3
35°	285.2	289.6	279.4	273.3	279.4	289.6	285.2	279.5	260.9	218.0	255.7
32.5°	606.5	633.4	630.1	613.4	630.1	633.4	606.5	597.1	550.0	507.1	495.5
30°	1306.4	1374.7	1367.3	1381.1	1367.3	1374.7	1306.4	1250.6	1101.2	1040.3	941.9
27.5°	2344.6	2429.0	2444.4	2426.3	2444.4	2429.0	2344.6	2267.4	2072.9	1937.9	1655.8
25°	4654.0	4787.6	4738.8	4675.4	4738.8	4787.6	4654.0	4175.1	3462.0	3272.9	2902.4
22.5°	11802.8	12331.3	12277.0	11831.3	12277.0	12331.3	11802.8	9591.7	7700.3	6115.9	5013.3
20°	32427.3	35916.5	37435.1	35377.1	37435.1	35916.5	32427.3	24399.0	19866.0	13194.3	9995.6
17.5°	68636.8	79268.1	86827.2	89981.4	86827.2	79268.1	68636.8	54894.0	42556.8	29632.5	19052.6
15°	112272.1	128275.6	137582.9	136332.4	137582.9	128275.6	112272.1	92898.6	72177.3	52483.4	32311.9
12.5°	161441.9	180409.8	196129.2	196462.3	196129.2	180409.8	161441.9	135808.6	104831.3	75513.3	48922.3
10°	209001.5	235327.2	256782.3	260939.9	256782.3	235327.2	209001.5	173182.3	138751.9	100474.4	64731.6
7.5°	244681.9	285038.9	311971.1	321839.6	311971.1	285038.9	244681.9	205786.2	162423.7	119312.2	80166.6
5°	279942.7	322230.4	349672.7	354541.1	349672.7	322230.4	279942.7	224465.5	177797.2	133521.1	90055.2
2.5°	303725.5	346382.5	370396.9	387053.8	370396.9	346382.5	303725.5	243105.7	191073.3	142994.8	97138.5
0°	317656.6	352413.1	392149.5	410612.1	392149.5	352413.1	317656.6	252021.1	197748.5	149173.5	101197.3
-2.5°	307123.6	346223.8	368973.6	389953.7	368973.6	346223.8	307123.6	248036.3	193345.0	145951.5	98373.4
-5°	272239.2	314762.8	334861.1	337483.6	334861.1	314762.8	272239.2	221587.5	177608.4	134996.3	91081.9
-7.5°	222451.5	262044.2	281340.8	291993.2	281340.8	262044.2	222451.5	186040.1	151776.7	114731.6	77441.3
-10°	180076.6	203182.3	216172.4	217027.8	216172.4	203182.3	180076.6	153472.8	124557.5	92755.9	60725.5
-12.5°	139028.6	154527.1	162210.0	161929.1	162210.0	154527.1	139028.6	118627.6	92363.6	68373.0	46225.0
-15°	102021.6	114062.3	120992.4	124315.4	120992.4	114062.3	102021.6	84973.3	65612.8	46805.4	30923.7
-17.5°	72010.2	81575.5	88519.6	91325.0	88519.6	81575.5	72010.2	58401.8	45615.3	31539.2	21320.5
-20°	49091.7	55647.3	60152.4	62064.9	60152.4	55647.3	49091.7	39918.3	31239.1	22115.6	15391.3



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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°	32336.1	36730.9	39819.8	39654.0	39819.8	36730.9	32336.1	26886.1	20852.2	15472.0	11237.3
-25°	20613.8	23030.2	24616.8	24745.4	24616.8	23030.2	20613.8	17238.6	13534.8	11142.8	8886.7
-27.5°	13643.6	14705.8	15346.1	15457.3	15346.1	14705.8	13643.6	11973.4	10070.5	8914.2	7719.6
-30°	10326.4	10815.2	11181.1	11165.8	11181.1	10815.2	10326.4	9499.3	8624.6	7807.3	7034.3
-32.5°	8584.6	8825.2	8985.5	9115.0	8985.5	8825.2	8584.6	8132.6	7601.2	7083.5	6589.3
-35°	7507.4	7629.9	7719.3	7800.6	7719.3	7629.9	7507.4	7278.5	6944.8	6594.7	6246.0
-37.5°	6895.8	6980.5	7036.7	7055.8	7036.7	6980.5	6895.8	6748.1	6491.3	6228.1	5922.4
-40°	6418.3	6466.1	6494.5	6511.3	6494.5	6466.1	6418.3	6334.9	6116.9	5874.2	5533.2
-42.5°	6059.9	6125.4	6159.3	6158.7	6159.3	6125.4	6059.9	5967.6	5708.2	5370.7	4902.0
-45°	5585.0	5750.7	5851.1	5893.8	5851.1	5750.7	5585.0	5355.7	4955.9	4462.0	3910.3
-47.5°	4491.3	4806.0	5026.7	5142.7	5026.7	4806.0	4491.3	4122.2	3671.8	3177.7	2693.5
-50°	2925.5	3030.6	3074.9	3056.4	3074.9	3030.6	2925.5	2816.3	2694.9	2551.0	2409.9
-52.5°	2541.3	2579.0	2601.9	2612.0	2601.9	2579.0	2541.3	2497.1	2437.5	2336.1	2230.9
-55°	2320.5	2362.5	2389.5	2403.4	2389.5	2362.5	2320.5	2270.5	2211.1	2104.8	1993.5
-57.5°	2007.6	2041.4	2062.1	2071.7	2062.1	2041.4	2007.6	1965.0	1913.9	1823.0	1725.5
-60°	1686.2	1714.0	1732.2	1742.0	1732.2	1714.0	1686.2	1652.1	1612.0	1546.0	1470.1
-62.5°	1396.6	1417.1	1435.2	1447.9	1435.2	1417.1	1396.6	1369.6	1336.3	1282.0	1214.9
-65°	1110.8	1129.0	1142.1	1149.5	1142.1	1129.0	1110.8	1087.0	1057.7	1013.5	956.7
-67.5°	834.8	849.7	862.0	870.0	862.0	849.7	834.8	815.5	792.0	758.9	716.0
-70°	582.1	593.1	603.8	611.3	603.8	593.1	582.1	567.6	549.7	526.0	494.5
-72.5°	350.5	357.4	360.6	360.9	360.6	357.4	350.5	341.1	329.2	313.2	290.5
-75°	156.5	156.8	160.1	162.7	160.1	156.8	156.5	154.9	152.1	147.2	137.8
-77.5°	75.4	76.6	78.1	79.3	78.1	76.6	75.4	73.8	72.0	69.8	66.3
-80°	46.9	47.8	47.9	48.0	47.9	47.8	46.9	46.0	45.0	43.8	42.6
-82.5°	32.6	33.2	33.4	33.4	33.4	33.2	32.6	31.8	31.0	30.2	29.3
-85°	20.8	20.9	20.9	20.9	20.9	20.9	20.8	20.7	20.6	20.5	19.8
-87.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	14.5	14.5	14.4
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	10.4	10.4	10.4	9.9	9.4	8.8	8.3	8.3	8.3	8.3	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.4
80°	2.1	2.1	2.1	2.4	2.6	2.7	2.8	3.1	3.4	3.7	3.8
77.5°	2.9	3.1	3.3	3.6	4.0	4.2	4.5	4.8	5.0	5.2	5.2
75°	4.6	4.9	5.4	6.0	6.2	6.2	6.1	5.9	5.9	6.1	6.1
72.5°	9.6	9.6	9.9	10.5	10.6	11.0	11.0	10.4	9.2	7.5	6.3
70°	15.3	16.2	17.9	20.1	21.5	21.9	21.3	19.7	16.9	14.8	11.8
67.5°	19.2	20.8	24.0	27.7	30.2	32.1	33.6	34.0	32.4	29.2	21.0
65°	20.2	22.2	25.2	28.2	31.9	36.3	42.8	46.1	46.3	44.0	34.0
62.5°	18.0	20.5	22.9	25.7	29.0	33.9	41.3	48.0	54.4	56.1	45.6
60°	14.6	16.8	18.6	21.1	24.2	30.6	38.8	46.7	54.2	54.6	51.2
57.5°	11.9	13.4	15.3	17.0	18.5	24.1	33.0	43.9	53.0	51.3	49.3
55°	10.5	11.6	13.3	15.1	17.0	20.4	25.5	33.6	43.4	46.7	45.0
52.5°	12.3	12.6	13.1	13.9	15.7	18.0	21.0	26.7	31.6	36.2	39.1
50°	14.4	14.4	14.4	14.4	15.7	16.7	18.8	21.8	25.2	29.0	32.0
47.5°	18.7	18.6	17.0	16.6	19.1	18.1	19.0	20.3	23.6	24.5	27.7
45°	31.2	30.8	25.2	26.6	28.9	28.8	23.9	25.9	26.2	26.5	24.9
42.5°	101.3	70.2	53.4	48.1	45.6	45.4	42.6	39.7	36.8	32.7	32.9
40°	194.0	165.4	127.5	86.1	71.7	66.4	68.8	60.0	54.0	46.9	48.8
37.5°	212.3	150.7	174.4	161.0	117.5	109.4	112.0	96.0	74.9	87.5	85.4
35°	229.2	213.5	238.7	236.5	190.5	218.5	192.8	155.9	137.6	157.2	141.6
32.5°	430.9	444.5	421.3	397.6	401.1	396.9	351.4	263.6	266.2	264.8	232.9
30°	843.3	820.7	751.7	712.4	725.3	658.4	570.9	555.0	488.5	400.8	349.6
27.5°	1586.6	1363.1	1250.3	1272.7	1176.2	1039.0	994.8	965.8	789.1	625.1	498.7
25°	2728.6	2365.4	2176.6	2078.4	1849.2	1653.7	1575.3	1467.6	1240.0	914.7	694.1
22.5°	4334.5	3930.7	3555.4	3113.4	2805.5	2560.2	2294.4	2038.5	1769.0	1332.4	990.3
20°	6984.0	5939.4	5233.4	4500.8	3931.8	3560.9	3115.5	2678.1	2306.9	1859.1	1331.0
17.5°	12320.7	8722.5	6955.4	5873.2	5117.6	4599.4	3892.3	3247.6	2822.5	2420.2	1695.9
15°	19005.9	12433.4	8975.1	7322.2	6181.8	5221.2	4498.4	3756.2	3317.6	2933.5	2135.7
12.5°	28878.4	17061.1	10845.0	8372.9	6827.9	5775.1	5010.7	4287.5	3718.6	3198.5	2449.3
10°	37872.3	22509.4	13678.0	9569.9	7529.5	6268.6	5340.4	4491.7	3827.7	3338.6	2710.8
7.5°	48569.9	28192.9	16489.0	10610.1	8128.2	6531.0	5398.4	4519.5	3892.3	3438.0	2921.9
5°	54732.4	32304.1	18420.1	11427.2	8634.1	6775.4	5421.5	4470.1	3918.1	3502.6	3084.7
2.5°	58293.6	34755.6	19534.2	11998.9	9005.4	7015.3	5483.4	4477.4	3949.7	3545.4	3147.3
0°	60347.9	34807.6	19767.5	12096.3	9085.8	7266.5	5612.1	4552.3	3976.5	3571.7	3169.1
-2.5°	58373.6	34813.1	19466.6	11897.6	9018.0	7234.4	5681.9	4633.3	4040.4	3586.8	3160.5
-5°	54451.8	32029.0	18149.7	11297.9	8600.8	6911.3	5562.1	4602.1	4024.7	3565.0	3115.4
-7.5°	47363.1	27713.7	16107.6	10446.4	8007.8	6456.7	5304.9	4441.4	3874.0	3442.6	2973.5
-10°	37059.2	21913.0	13221.8	9210.1	7247.1	5974.9	5005.3	4237.0	3704.1	3306.8	2805.0
-12.5°	28086.1	16545.7	10234.2	7736.7	6379.0	5437.1	4682.0	4016.5	3517.5	3160.3	2615.0
-15°	18852.9	12326.3	8737.7	6832.6	5676.3	4962.4	4405.7	3877.7	3449.9	3048.6	2408.0
-17.5°	14163.9	9440.2	7308.7	6137.7	5255.6	4633.9	4219.9	3808.2	3413.2	2959.7	2215.9
-20°	10458.8	8147.4	6644.6	5663.8	4969.3	4475.9	4086.6	3746.8	3354.8	2742.3	1982.8





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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°	8843.3	7367.9	6193.5	5317.7	4758.8	4341.8	3991.5	3668.3	3270.6	2455.2	1725.1
-25°	7711.4	6691.7	5851.3	5249.3	4648.4	4188.5	3898.0	3562.8	2946.7	2132.4	1484.2
-27.5°	6908.9	6185.1	5768.0	5225.6	4664.2	4150.4	3791.0	3396.9	2578.6	1835.0	1459.7
-30°	6414.7	6009.9	5641.3	5223.4	4683.9	4172.7	3713.0	2966.3	2202.8	1582.1	1441.9
-32.5°	6159.5	5800.9	5458.3	5112.7	4629.0	4104.3	3325.0	2504.6	1780.5	1552.8	1410.3
-35°	5897.9	5523.9	5178.4	4828.1	4448.9	3634.9	2804.9	2012.1	1658.8	1509.8	1368.1
-37.5°	5565.1	5166.4	4814.6	4412.4	3749.9	2980.9	2167.5	1781.9	1608.0	1454.2	1301.5
-40°	5137.3	4761.6	4204.1	3618.8	2921.5	2177.6	1893.5	1720.6	1557.5	1380.4	1220.4
-42.5°	4406.8	3897.1	3324.1	2677.8	2143.0	1978.1	1818.1	1663.1	1490.5	1303.3	1136.0
-45°	3376.9	2847.0	2344.6	2187.1	2029.4	1888.1	1752.7	1579.1	1395.6	1216.8	1049.0
-47.5°	2481.1	2333.4	2190.5	2065.2	1934.7	1795.6	1631.6	1464.6	1286.2	1119.8	978.1
-50°	2283.1	2170.8	2061.1	1945.1	1790.8	1635.7	1482.1	1328.1	1172.0	1033.4	899.8
-52.5°	2119.2	1995.9	1869.7	1739.8	1603.6	1460.4	1319.1	1197.4	1068.9	937.1	813.4
-55°	1878.0	1763.4	1647.9	1529.4	1412.7	1299.9	1186.8	1070.0	949.8	829.3	715.5
-57.5°	1625.9	1527.9	1434.0	1342.1	1253.1	1145.1	1032.4	923.4	818.2	710.2	610.6
-60°	1391.2	1310.8	1227.6	1142.4	1056.1	962.6	864.8	769.1	676.0	596.2	517.2
-62.5°	1143.6	1068.5	998.3	926.8	853.3	775.8	696.2	626.0	558.0	489.4	414.0
-65°	896.1	832.1	772.0	719.8	667.0	613.1	552.4	490.4	429.4	370.1	303.9
-67.5°	671.6	626.1	583.3	539.9	492.8	443.4	391.2	340.4	296.7	254.0	202.4
-70°	459.9	422.4	384.7	346.8	312.0	279.4	246.4	212.1	176.4	148.6	120.8
-72.5°	266.1	240.3	215.1	191.5	166.8	150.2	134.3	116.4	96.8	75.6	60.0
-75°	127.5	116.4	105.3	95.1	83.7	70.9	63.8	59.0	54.1	49.3	44.4
-77.5°	62.7	59.1	55.8	53.3	50.4	47.2	43.7	40.5	38.4	36.5	34.5
-80°	41.2	39.8	38.2	36.8	35.4	34.0	32.6	31.2	29.9	28.6	27.3
-82.5°	28.3	27.3	26.3	25.7	25.0	24.3	23.5	22.7	21.9	21.0	20.0
-85°	19.2	18.6	18.0	17.7	17.4	17.0	16.5	16.2	15.8	15.5	15.1
-87.5°	14.3	14.3	14.2	13.6	13.0	12.4	11.7	11.6	11.5	11.4	11.3
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.3	8.3	8.3	8.3	7.8	7.3	6.8	6.3	6.3	6.3	6.3
87.5°	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.2	4.2	4.2
85°	2.3	2.4	2.4	2.4	2.8	3.2	3.7	4.2	4.2	4.2	4.2
82.5°	2.7	3.1	3.4	3.6	3.6	3.7	3.9	4.2	4.3	4.2	4.2
80°	3.7	3.8	4.0	4.2	4.2	4.2	4.1	4.2	4.5	4.6	4.5
77.5°	4.7	4.4	4.2	4.2	4.2	4.2	4.2	4.3	4.8	5.0	5.0
75°	5.6	4.9	4.4	4.3	4.3	4.2	4.2	4.4	4.9	5.4	5.5
72.5°	6.0	5.6	4.9	4.5	4.8	4.8	4.5	4.4	4.9	5.4	5.9
70°	9.0	6.8	5.9	5.5	5.4	5.5	5.4	5.1	5.0	5.5	6.0
67.5°	13.7	10.4	8.0	6.5	6.0	5.9	6.2	5.8	5.5	5.6	6.0
65°	24.4	16.3	10.2	8.2	6.8	6.2	6.3	6.3	6.0	5.8	6.1
62.5°	34.8	24.3	16.6	10.8	7.7	6.6	6.3	6.6	6.4	6.1	6.2
60°	45.5	34.0	23.7	16.7	10.5	6.8	6.5	6.8	6.7	6.3	6.3
57.5°	45.9	42.2	33.3	23.4	15.5	9.2	6.8	7.2	7.2	6.7	6.3
55°	43.8	41.6	39.9	31.8	21.4	13.4	8.5	7.6	7.6	7.2	6.4
52.5°	38.9	41.0	41.3	37.8	28.7	18.2	12.3	8.2	8.2	7.7	6.9
50°	33.7	39.2	42.3	40.7	35.0	25.0	15.9	11.0	8.9	8.3	7.5
47.5°	31.6	38.1	42.5	43.5	38.8	31.7	21.2	13.8	9.6	9.0	8.1
45°	32.0	37.2	42.9	45.1	43.1	36.3	27.1	16.4	11.8	9.7	8.6
42.5°	34.5	39.1	42.9	47.6	45.9	40.2	32.8	21.1	13.8	10.3	9.2
40°	46.8	43.6	44.6	49.8	49.3	43.9	36.4	26.0	15.6	11.2	9.7
37.5°	63.4	55.5	50.4	56.9	54.4	47.7	39.6	30.7	17.9	12.6	10.3
35°	108.2	74.5	74.0	74.4	64.7	52.2	42.7	34.5	22.1	13.9	10.8
32.5°	165.0	128.4	125.1	104.1	78.8	57.4	46.5	37.9	26.4	15.1	11.3
30°	274.9	247.1	195.6	142.6	100.9	70.8	51.9	41.4	30.6	16.1	11.9
27.5°	455.5	393.4	291.4	207.7	138.0	88.1	59.6	45.0	34.8	18.0	12.7
25°	642.2	563.0	433.3	291.1	180.9	123.0	68.3	48.8	38.1	21.3	13.5
22.5°	823.0	739.4	593.6	385.9	243.7	167.9	87.2	55.7	41.1	24.5	14.2
20°	999.1	919.9	757.6	472.4	317.3	222.9	120.0	63.0	44.1	27.5	14.8
17.5°	1193.4	1058.9	849.7	573.7	390.4	278.2	157.8	70.7	46.9	30.3	15.3
15°	1432.2	1141.1	938.5	663.7	455.5	333.5	199.4	78.6	49.7	32.9	15.9
12.5°	1646.0	1217.2	1026.0	742.6	513.1	388.2	243.4	86.5	52.4	36.0	16.8
10°	1846.8	1287.1	1110.4	810.7	563.9	441.5	288.4	95.4	56.7	39.4	17.7
7.5°	2030.1	1351.0	1189.8	868.3	605.5	478.2	316.2	106.3	61.1	42.5	18.6
5°	2179.7	1401.8	1245.2	907.6	626.0	495.9	336.4	116.9	65.4	45.4	19.4
2.5°	2250.0	1436.7	1279.2	937.0	643.4	509.7	351.3	126.7	69.3	48.0	20.2
0°	2286.6	1466.7	1301.8	957.6	657.2	519.5	360.9	135.6	73.0	50.1	20.9
-2.5°	2292.0	1473.3	1307.5	978.6	679.1	533.8	373.7	159.7	91.7	61.6	27.4
-5°	2263.2	1474.2	1303.4	990.3	696.6	544.0	382.2	182.3	109.7	72.4	33.7
-7.5°	2165.0	1451.9	1281.0	991.3	709.2	550.3	387.1	203.1	126.6	82.3	39.5
-10°	2026.4	1413.0	1237.9	974.5	721.0	559.2	391.3	221.8	142.0	91.0	44.8
-12.5°	1857.0	1369.2	1193.7	954.1	729.8	571.3	404.4	240.6	155.7	98.5	49.3
-15°	1657.9	1320.7	1150.9	931.9	735.0	581.1	413.6	257.3	168.2	105.1	53.0
-17.5°	1439.0	1268.0	1111.8	909.4	736.9	588.9	419.0	270.1	178.7	110.9	56.5
-20°	1390.4	1236.6	1077.4	888.0	735.6	595.3	420.6	278.6	186.9	114.8	59.4



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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°	1371.8	1222.5	1055.2	878.3	733.7	600.5	418.6	282.4	192.7	116.7	61.1
-25°	1352.6	1205.5	1030.1	864.6	733.4	593.3	417.3	281.3	195.9	116.3	61.4
-27.5°	1329.9	1181.6	998.8	842.8	718.6	582.3	414.7	283.9	196.1	113.7	60.2
-30°	1304.3	1141.1	967.1	815.7	698.4	552.6	405.4	283.4	192.6	111.1	57.5
-32.5°	1267.9	1094.2	927.7	789.2	665.0	520.2	384.4	279.4	185.9	107.8	55.6
-35°	1206.2	1040.2	880.1	756.4	626.0	489.6	362.2	271.6	175.9	102.3	53.1
-37.5°	1137.7	978.8	838.2	715.4	585.4	456.1	345.1	254.3	162.7	94.5	49.4
-40°	1065.6	919.0	792.0	669.4	544.9	419.8	324.4	232.8	150.3	84.4	44.5
-42.5°	989.4	862.8	740.9	622.0	502.2	392.7	299.7	208.1	134.5	75.8	38.3
-45°	922.1	801.8	685.7	570.8	458.5	361.8	268.6	181.3	116.0	67.2	33.3
-47.5°	849.9	737.5	625.5	515.2	419.2	325.9	234.0	157.8	95.5	56.9	31.0
-50°	776.2	667.8	560.3	463.0	374.3	283.0	198.0	131.6	81.3	44.5	28.4
-52.5°	698.1	592.2	496.9	409.5	321.5	236.3	165.2	104.1	65.8	37.9	25.3
-55°	609.8	518.8	433.9	347.6	263.8	193.0	129.4	84.9	49.1	33.7	22.2
-57.5°	526.3	445.4	360.8	279.1	209.1	148.3	100.5	64.3	41.1	29.2	21.1
-60°	439.3	358.6	280.6	214.9	155.6	109.5	75.4	47.5	35.6	25.1	19.8
-62.5°	339.7	269.0	208.1	151.8	110.8	78.8	52.3	40.7	29.7	23.4	18.4
-65°	244.6	188.0	136.5	104.8	74.8	52.8	43.9	33.5	26.7	21.6	17.1
-67.5°	152.3	120.3	90.4	63.1	51.2	43.3	35.2	29.4	24.4	19.7	16.1
-70°	92.9	66.8	54.7	47.8	40.8	34.3	30.7	26.5	22.0	18.4	15.1
-72.5°	54.1	48.2	42.5	36.8	33.3	30.0	27.0	23.7	20.2	16.9	13.9
-75°	39.5	36.6	34.0	31.2	28.3	25.7	23.7	21.4	18.3	15.4	12.7
-77.5°	32.3	30.1	27.8	25.8	23.9	22.3	20.7	19.1	16.4	13.8	11.5
-80°	25.6	24.0	22.5	21.2	19.9	18.8	17.8	16.6	14.3	12.2	10.2
-82.5°	19.0	18.3	17.7	17.0	16.3	15.6	14.9	14.1	12.2	10.5	9.0
-85°	14.7	14.3	13.9	13.4	13.0	12.5	12.1	11.5	10.2	9.1	8.1
-87.5°	11.1	11.0	10.9	10.7	10.3	9.9	9.4	8.9	8.3	7.7	7.2
-90°	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.2	4.2	4.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.3	6.3	6.3	6.3	6.3	5.2	4.2
87.5°	4.2	4.3	4.4	4.4	4.4	4.3	4.2
85°	4.2	4.4	4.6	4.6	4.6	4.4	4.2
82.5°	4.2	4.6	4.8	4.8	4.7	4.5	4.2
80°	4.3	4.7	4.9	5.0	4.9	4.6	4.2
77.5°	4.8	4.9	5.1	5.2	5.1	4.7	4.2
75°	5.4	5.2	5.3	5.5	5.3	4.7	4.2
72.5°	5.9	5.6	5.5	5.7	5.5	4.8	4.2
70°	6.3	5.9	5.7	5.9	5.6	4.9	4.2
67.5°	6.3	6.2	5.9	6.0	5.8	5.0	4.2
65°	6.3	6.3	6.0	6.0	6.0	5.1	4.2
62.5°	6.3	6.3	6.2	6.1	6.1	5.2	4.2
60°	6.3	6.3	6.3	6.1	6.3	5.2	4.2
57.5°	6.4	6.3	6.3	6.2	6.3	5.3	4.2
55°	6.5	6.3	6.3	6.2	6.3	5.4	4.2
52.5°	6.7	6.3	6.3	6.3	6.3	5.5	4.2
50°	6.9	6.5	6.3	6.3	6.3	5.5	4.2
47.5°	7.1	6.7	6.3	6.3	6.3	5.6	4.2
45°	7.6	6.9	6.3	6.3	6.3	5.7	4.2
42.5°	8.1	7.2	6.3	6.3	6.3	5.7	4.2
40°	8.5	7.4	6.4	6.3	6.3	5.8	4.2
37.5°	9.0	7.7	6.6	6.3	6.3	5.9	4.2
35°	9.4	8.0	6.8	6.3	6.3	5.9	4.2
32.5°	9.8	8.4	7.0	6.3	6.3	6.0	4.2
30°	10.2	8.7	7.2	6.3	6.3	6.0	4.2
27.5°	10.6	9.0	7.4	6.3	6.3	6.1	4.2
25°	11.0	9.3	7.5	6.3	6.3	6.1	4.2
22.5°	11.3	9.6	7.7	6.3	6.3	6.1	4.2
20°	11.7	9.8	7.8	6.3	6.3	6.2	4.2
17.5°	12.0	9.9	7.9	6.3	6.3	6.2	4.2
15°	12.4	10.0	8.0	6.3	6.3	6.2	4.2
12.5°	12.8	10.1	8.1	6.3	6.3	6.3	4.2
10°	13.2	10.2	8.2	6.3	6.3	6.3	4.2
7.5°	13.6	10.3	8.2	6.3	6.3	6.3	4.2
5°	14.0	10.4	8.3	6.3	6.3	6.3	4.2
2.5°	14.3	10.4	8.3	6.3	6.3	6.3	4.2
0°	14.6	10.4	8.3	6.3	6.3	6.3	4.2
-2.5°	17.1	11.3	8.7	6.6	6.4	6.3	4.2
-5°	19.5	12.2	9.0	6.8	6.5	6.3	4.2
-7.5°	21.7	13.0	9.3	7.1	6.6	6.3	4.2
-10°	23.7	13.8	9.6	7.3	6.6	6.3	4.2
-12.5°	25.5	14.5	9.9	7.6	6.7	6.3	4.2
-15°	26.9	15.1	10.2	7.8	6.8	6.2	4.2
-17.5°	28.0	15.6	10.5	8.0	6.8	6.2	4.2
-20°	29.0	15.9	10.7	8.2	6.9	6.2	4.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	30.0	16.2	10.9	8.4	6.9	6.2	4.2
-25°	30.3	16.4	11.1	8.5	7.0	6.1	4.2
-27.5°	29.8	16.4	11.3	8.7	7.0	6.1	4.2
-30°	28.6	16.3	11.4	8.7	7.0	6.1	4.2
-32.5°	26.6	16.1	11.5	8.8	7.0	6.1	4.2
-35°	25.5	15.6	11.5	8.9	7.0	6.0	4.2
-37.5°	24.9	15.1	11.5	8.9	7.0	6.0	4.2
-40°	23.9	15.1	11.5	8.8	7.0	6.0	4.2
-42.5°	22.7	15.0	11.4	8.8	6.9	5.9	4.2
-45°	21.1	14.8	11.3	8.7	6.9	5.9	4.2
-47.5°	19.3	14.5	11.1	8.6	6.8	5.9	4.2
-50°	18.5	14.1	10.9	8.5	6.7	5.8	4.2
-52.5°	17.9	13.7	10.7	8.3	6.6	5.8	4.2
-55°	17.2	13.3	10.4	8.1	6.5	5.8	4.2
-57.5°	16.3	12.8	10.2	8.0	6.4	5.7	4.2
-60°	15.4	12.4	9.8	7.8	6.3	5.7	4.2
-62.5°	14.7	11.9	9.5	7.5	6.3	5.7	4.2
-65°	13.9	11.3	9.1	7.3	6.3	5.6	4.2
-67.5°	13.1	10.7	8.7	7.0	6.3	5.6	4.2
-70°	12.3	10.1	8.3	6.8	6.3	5.6	4.2
-72.5°	11.4	9.4	7.8	6.7	6.3	5.5	4.2
-75°	10.4	8.7	7.3	6.6	6.3	5.5	4.2
-77.5°	9.4	8.0	7.1	6.6	6.3	5.5	4.2
-80°	8.4	7.6	7.0	6.5	6.3	5.4	4.2
-82.5°	7.8	7.3	6.8	6.5	6.3	5.4	4.2
-85°	7.3	6.9	6.6	6.4	6.3	5.3	4.2
-87.5°	6.8	6.6	6.5	6.4	6.3	5.3	4.2
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2

(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

