

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: P701431 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-5S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

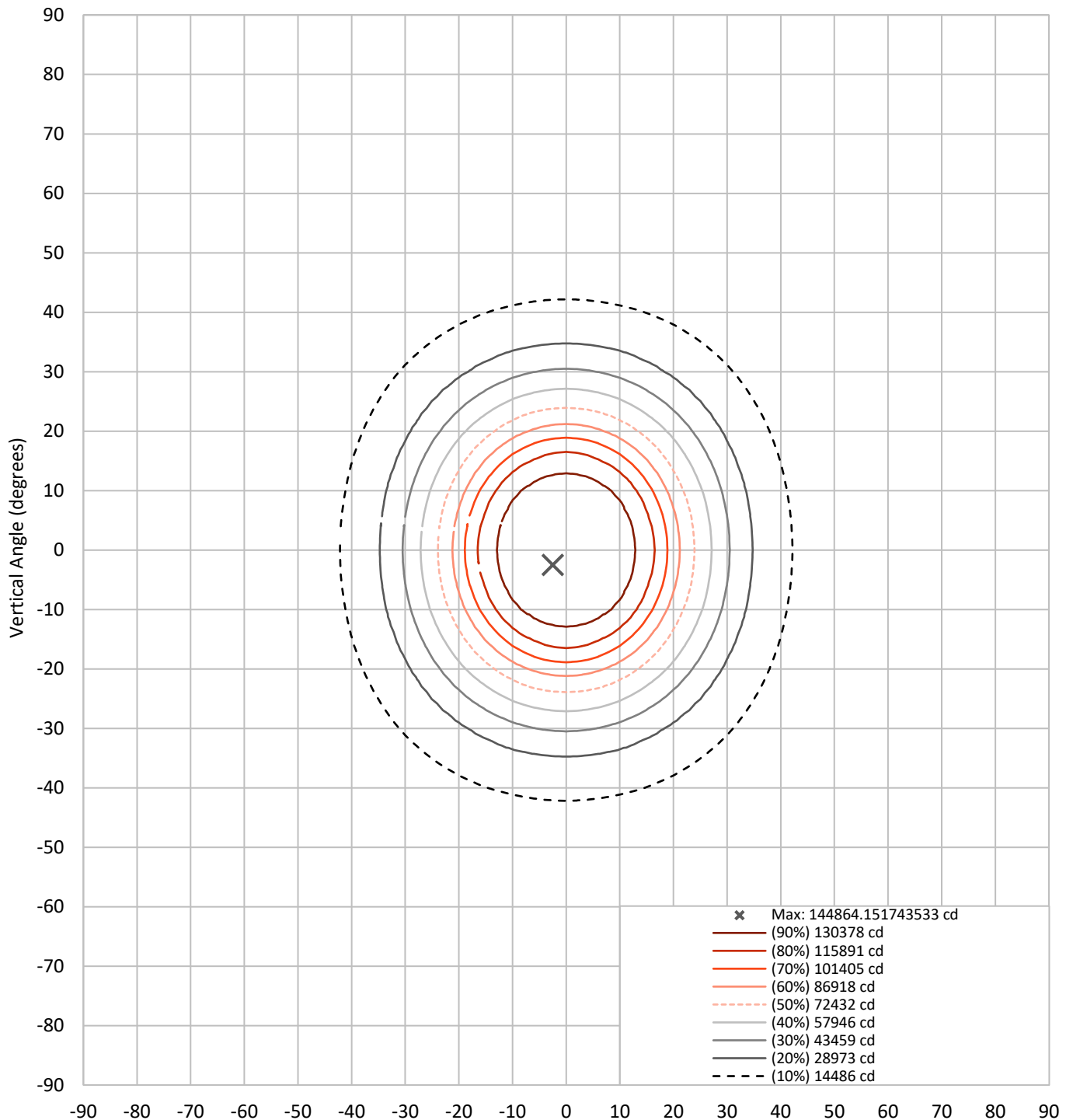
Test Method: LM-79-08  
Report Number: P701431 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-70-5S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	105886.9 lumens	Max Intensity:	144864.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	160.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	59402.5 lumens	Field Lumens:	98660.4 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%
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





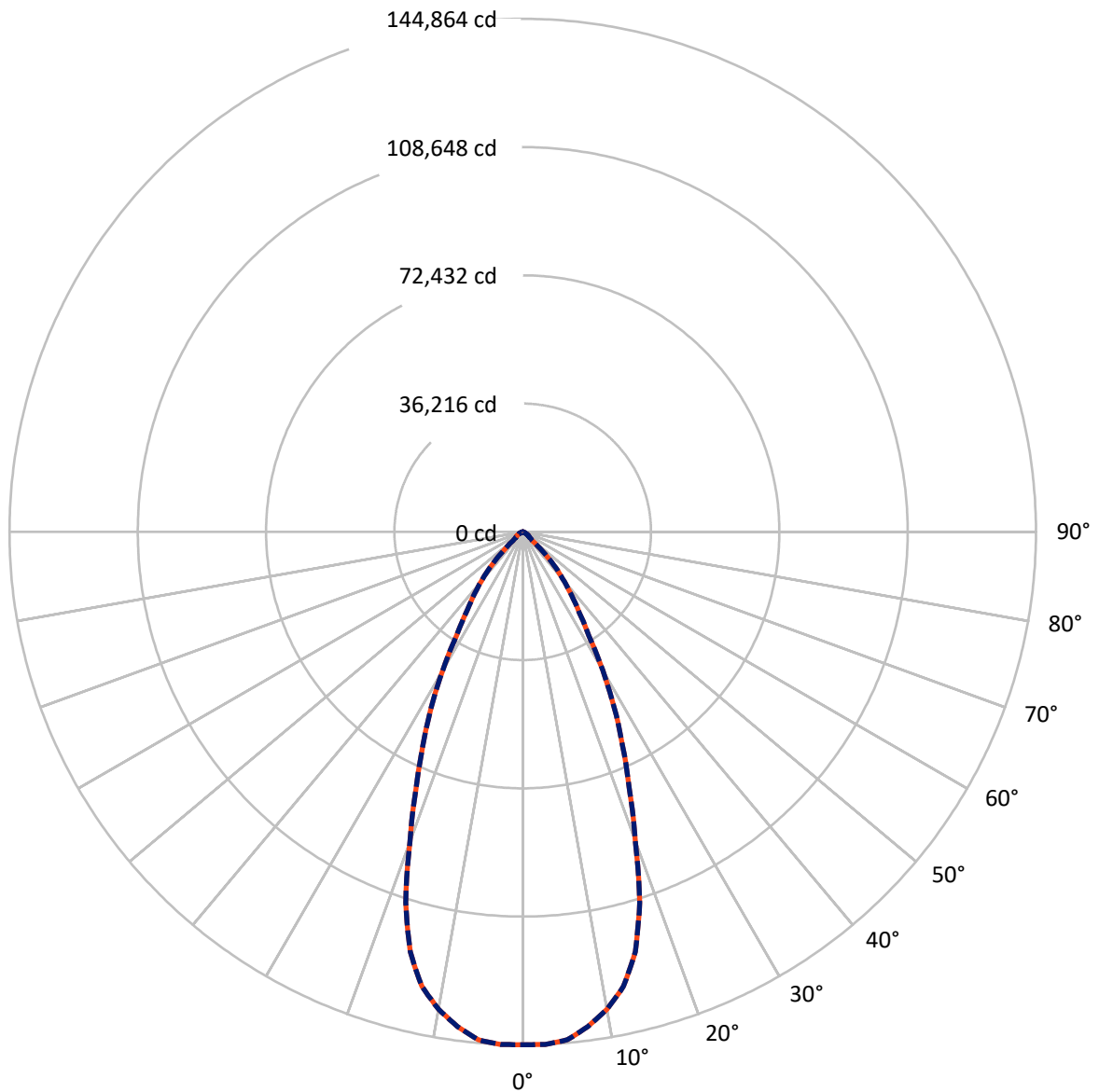
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### Lumen Table

90	0.1	1.0	3.3	7.2	9.1	7.2	3.3	1.0	0.1							
80	0.1	1.0	3.3	7.2	9.1	7.2	3.3	1.0	0.1							
70	0.5	0.6	1.8	4.6	9.4	15.3	20.7	23.7	23.7	20.7	15.3	9.4	4.6	1.8	0.6	0.5
60		1.3	5.4	14.6	28.5	43.5	54.8	60.9	60.9	54.8	43.5	28.5	14.6	5.4	1.3	
50	1.1	2.8	11.9	30.3	52.3	94.2	191.9	270.2	270.2	191.9	94.2	52.3	30.3	11.9	2.8	1.1
40		5.0	20.2	45.2	131.4	397.8	671.7	860.6	860.6	671.7	397.8	131.4	45.2	20.2	5.0	
30	2.0	7.4	27.9	74.4	361.5	822.4	1471.7	1975.3	1975.3	1471.7	822.4	361.5	74.4	27.9	7.4	2.0
20		9.4	32.9	143.9	573.3	1385.1	2573.8	3506.6	3506.6	2573.8	1385.1	573.3	143.9	32.9	9.4	
10	2.4	10.5	35.4	196.6	713.4	1804.7	3404.4	4249.6	4249.6	3404.4	1804.7	713.4	196.6	35.4	10.5	2.4
0		10.5	35.4	196.6	713.4	1804.7	3404.4	4249.6	4249.6	3404.4	1804.7	713.4	196.6	35.4	10.5	
-10	2.0	9.4	32.9	143.9	573.3	1385.1	2573.8	3506.6	3506.6	2573.8	1385.1	573.3	143.9	32.9	9.4	2.0
-20		7.4	27.9	74.4	361.5	822.4	1471.7	1975.3	1975.3	1471.7	822.4	361.5	74.4	27.9	7.4	
-30	1.1	5.0	20.2	45.2	131.4	397.8	671.7	860.6	860.6	671.7	397.8	131.4	45.2	20.2	5.0	1.1
-40		2.8	11.9	30.3	52.3	94.2	191.9	270.2	270.2	191.9	94.2	52.3	30.3	11.9	2.8	
-50	0.5	1.3	5.4	14.6	28.5	43.5	54.8	60.9	60.9	54.8	43.5	28.5	14.6	5.4	1.3	0.5
-60		0.6	1.8	4.6	9.4	15.3	20.7	23.7	23.7	20.7	15.3	9.4	4.6	1.8	0.6	
-70	0.1	1.0	3.3	7.2	9.1	7.2	3.3	1.0	0.1							
-80		0.1	1.0	3.3	7.2	9.1	7.2	3.3	1.0	0.1						
-90	0.1	1.0	3.3	7.2	9.1	7.2	3.3	1.0	0.1							

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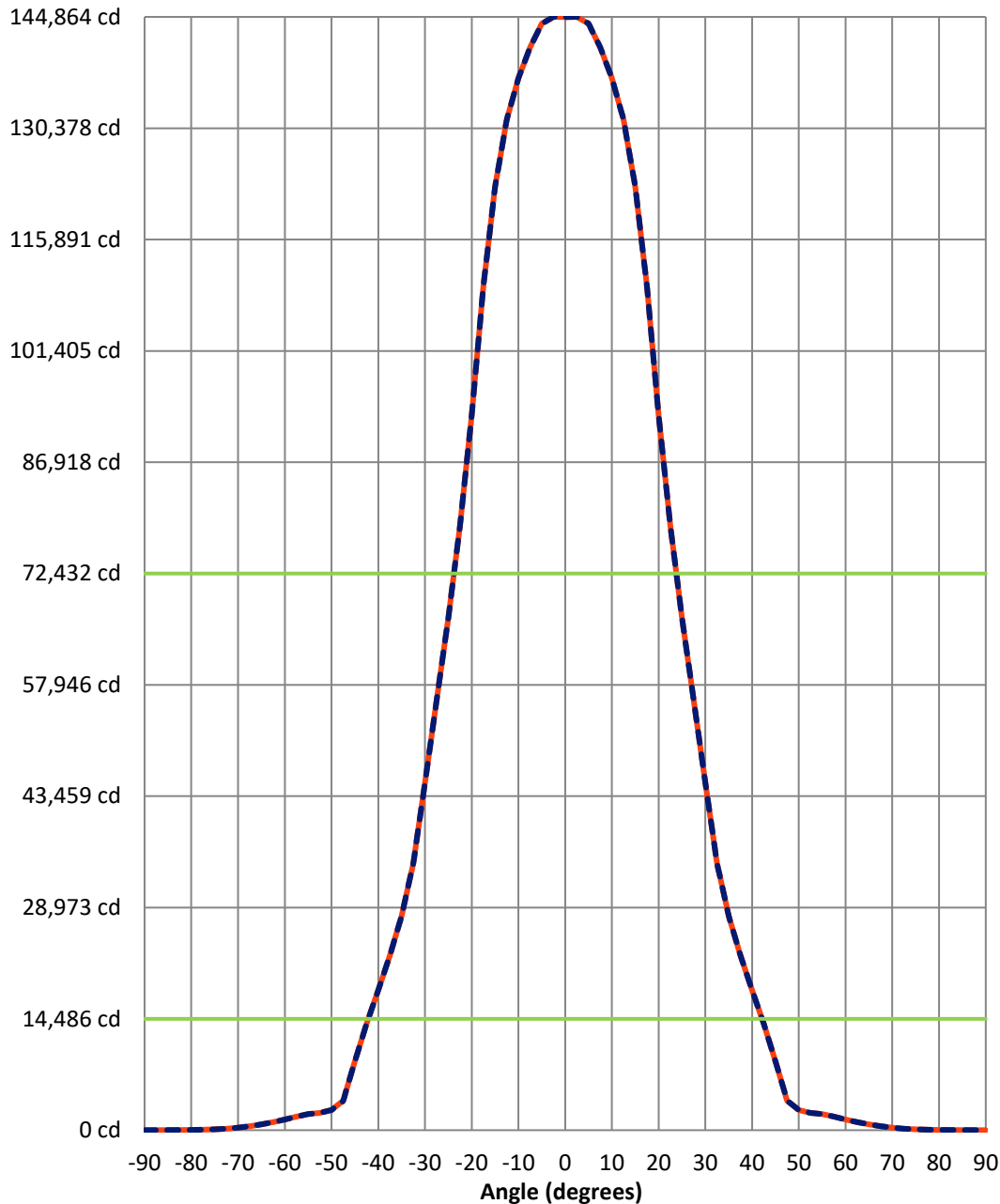
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg    - - - Horizontal Distribution Through -2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 47.6°  
V Angle: 47.6°  
Lumens: 59402.5  
Efficiency: 56.1%

**Field:**  
H Angle: 84.3°  
V Angle: 84.3°  
Lumens: 98660.4  
Efficiency: 93.2%

**Spill:**  
Lumens: 7226.6  
Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - Horizontal Distribution through -2.5-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	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.9
80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.7	11.9
77.5°	0.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.4	15.0
75°	0.0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.5	18.6
72.5°	0.0	2.1	4.2	6.3	8.4	10.5	12.6	14.8	17.3	19.8	22.2
70°	0.0	2.4	4.8	7.2	9.6	12.0	14.4	17.3	20.1	23.0	26.9
67.5°	0.0	2.7	5.4	8.0	10.7	13.4	16.5	19.8	23.0	27.4	31.8
65°	0.0	3.0	5.9	8.9	11.9	15.0	18.6	22.2	26.9	31.8	38.4
62.5°	0.0	3.2	6.5	9.7	13.0	16.7	20.7	25.3	30.7	37.2	49.3
60°	0.0	3.5	7.0	10.5	14.0	18.4	22.7	28.5	34.4	46.8	59.9
57.5°	0.0	3.8	7.5	11.3	15.3	20.0	25.3	31.7	41.8	56.2	76.0
55°	0.0	4.0	8.0	12.1	16.6	21.6	28.0	34.9	50.0	67.0	94.5
52.5°	0.0	4.3	8.5	12.8	17.9	23.3	30.6	41.4	57.9	83.1	112.4
50°	0.0	4.5	9.0	13.6	19.1	25.3	33.1	48.1	67.4	98.8	136.8
47.5°	0.0	4.7	9.5	14.3	20.2	27.4	36.0	54.5	80.8	114.0	161.2
45°	0.0	4.9	9.9	15.1	21.3	29.3	41.3	60.8	93.8	135.0	184.8
42.5°	0.0	5.2	10.4	15.9	22.4	31.2	46.4	69.6	106.3	155.3	225.0
40°	0.0	5.4	10.8	16.7	23.6	33.0	51.3	80.0	119.9	174.7	266.3
37.5°	0.0	5.6	11.2	17.4	25.0	34.6	56.0	89.9	136.3	197.9	305.7
35°	0.0	5.7	11.5	18.1	26.2	37.6	60.4	99.2	151.8	231.4	348.3
32.5°	0.0	5.9	11.9	18.7	27.4	41.0	65.5	108.0	166.4	262.9	396.3
30°	0.0	6.1	12.2	19.3	28.6	44.2	72.5	117.1	180.1	292.5	441.4
27.5°	0.0	6.2	12.5	19.9	29.6	47.2	79.1	128.2	197.1	320.0	483.3
25°	0.0	6.3	12.8	20.4	30.5	50.0	85.1	138.4	219.5	351.3	522.4
22.5°	0.0	6.5	13.0	20.9	31.4	52.5	90.5	147.7	239.9	382.8	566.5
20°	0.0	6.6	13.2	21.3	32.2	54.7	95.5	156.0	258.3	411.3	606.4
17.5°	0.0	6.7	13.4	21.7	32.9	56.7	99.8	163.5	274.6	436.5	641.8
15°	0.0	6.8	13.6	22.0	33.5	58.4	103.6	170.0	288.9	458.6	672.7
12.5°	0.0	6.8	13.8	22.3	34.0	59.9	106.9	175.5	301.0	477.4	699.1
10°	0.0	6.9	13.9	22.5	34.4	61.1	109.5	180.0	311.0	492.8	720.7
7.5°	0.0	6.9	14.0	22.7	34.8	62.1	111.6	183.5	318.8	504.9	737.7
5°	0.0	7.0	14.0	22.8	35.0	62.8	113.1	186.1	324.3	513.5	749.8
2.5°	0.0	7.0	14.1	22.9	35.2	63.2	114.0	187.6	327.7	518.7	757.1
0°	0.0	7.0	14.1	22.9	35.2	63.3	114.3	188.1	328.8	520.4	759.5
-2.5°	0.0	7.0	14.1	22.9	35.2	63.3	114.3	188.1	328.8	520.4	759.5
-5°	0.0	7.0	14.0	22.8	35.0	62.8	113.1	186.1	324.3	513.5	749.8
-7.5°	0.0	6.9	14.0	22.7	34.8	62.1	111.6	183.5	318.8	504.9	737.7
-10°	0.0	6.9	13.9	22.5	34.4	61.1	109.5	180.0	311.0	492.8	720.7
-12.5°	0.0	6.8	13.8	22.3	34.0	59.9	106.9	175.5	301.0	477.4	699.1
-15°	0.0	6.8	13.6	22.0	33.5	58.4	103.6	170.0	288.9	458.6	672.7
-17.5°	0.0	6.7	13.4	21.7	32.9	56.7	99.8	163.5	274.6	436.5	641.8
-20°	0.0	6.6	13.2	21.3	32.2	54.7	95.5	156.0	258.3	411.3	606.4



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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°	0.0	6.5	13.0	20.9	31.4	52.5	90.5	147.7	239.9	382.8	566.5
-25°	0.0	6.3	12.8	20.4	30.5	50.0	85.1	138.4	219.5	351.3	522.4
-27.5°	0.0	6.2	12.5	19.9	29.6	47.2	79.1	128.2	197.1	320.0	483.3
-30°	0.0	6.1	12.2	19.3	28.6	44.2	72.5	117.1	180.1	292.5	441.4
-32.5°	0.0	5.9	11.9	18.7	27.4	41.0	65.5	108.0	166.4	262.9	396.3
-35°	0.0	5.7	11.5	18.1	26.2	37.6	60.4	99.2	151.8	231.4	348.3
-37.5°	0.0	5.6	11.2	17.4	25.0	34.6	56.0	89.9	136.3	197.9	305.7
-40°	0.0	5.4	10.8	16.7	23.6	33.0	51.3	80.0	119.9	174.7	266.3
-42.5°	0.0	5.2	10.4	15.9	22.4	31.2	46.4	69.6	106.3	155.3	225.0
-45°	0.0	4.9	9.9	15.1	21.3	29.3	41.3	60.8	93.8	135.0	184.8
-47.5°	0.0	4.7	9.5	14.3	20.2	27.4	36.0	54.5	80.8	114.0	161.2
-50°	0.0	4.5	9.0	13.6	19.1	25.3	33.1	48.1	67.4	98.8	136.8
-52.5°	0.0	4.3	8.5	12.8	17.9	23.3	30.6	41.4	57.9	83.1	112.4
-55°	0.0	4.0	8.0	12.1	16.6	21.6	28.0	34.9	50.0	67.0	94.5
-57.5°	0.0	3.8	7.5	11.3	15.3	20.0	25.3	31.7	41.8	56.2	76.0
-60°	0.0	3.5	7.0	10.5	14.0	18.4	22.7	28.5	34.4	46.8	59.9
-62.5°	0.0	3.2	6.5	9.7	13.0	16.7	20.7	25.3	30.7	37.2	49.3
-65°	0.0	3.0	5.9	8.9	11.9	15.0	18.6	22.2	26.9	31.8	38.4
-67.5°	0.0	2.7	5.4	8.0	10.7	13.4	16.5	19.8	23.0	27.4	31.8
-70°	0.0	2.4	4.8	7.2	9.6	12.0	14.4	17.3	20.1	23.0	26.9
-72.5°	0.0	2.1	4.2	6.3	8.4	10.5	12.6	14.8	17.3	19.8	22.2
-75°	0.0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.5	18.6
-77.5°	0.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.4	15.0
-80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.7	11.9
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.9
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-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°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
85°	6.5	7.0	7.5	8.0	8.5	9.0	9.5	9.9	10.4	10.8	11.2
82.5°	9.7	10.5	11.3	12.1	12.8	13.6	14.3	15.1	15.9	16.7	17.4
80°	13.0	14.0	15.3	16.6	17.9	19.1	20.2	21.3	22.4	23.6	25.0
77.5°	16.7	18.4	20.0	21.6	23.3	25.3	27.4	29.3	31.2	33.0	34.6
75°	20.7	22.7	25.3	28.0	30.6	33.1	36.0	41.3	46.4	51.3	56.0
72.5°	25.3	28.5	31.7	34.9	41.4	48.1	54.5	60.8	69.6	80.0	89.9
70°	30.7	34.4	41.8	50.0	57.9	67.4	80.8	93.8	106.3	119.9	136.3
67.5°	37.2	46.8	56.2	67.0	83.1	98.8	114.0	135.0	155.3	174.7	197.9
65°	49.3	59.9	76.0	94.5	112.4	136.8	161.2	184.8	225.0	266.3	305.7
62.5°	61.2	80.6	101.3	124.9	153.4	181.2	226.2	275.7	323.4	383.6	443.0
60°	80.6	103.6	131.5	163.5	200.5	258.3	314.3	382.8	453.9	522.4	603.7
57.5°	101.3	131.5	166.8	213.4	277.7	344.5	427.2	507.3	600.5	693.0	786.5
55°	124.9	163.5	213.4	284.2	362.3	454.1	549.0	656.9	761.5	883.8	1000.9
52.5°	153.4	200.5	277.7	362.3	463.1	571.6	691.1	817.5	954.2	1091.4	1237.5
50°	181.2	258.3	344.5	454.1	571.6	702.5	845.7	996.9	1157.8	1321.2	1490.2
47.5°	226.2	314.3	427.2	549.0	691.1	845.7	1011.2	1191.2	1371.9	1567.8	1758.5
45°	275.7	382.8	507.3	656.9	817.5	996.9	1191.2	1388.9	1606.9	1811.6	1986.9
42.5°	323.4	453.9	600.5	761.5	954.2	1157.8	1371.9	1606.9	1828.7	2021.7	2149.8
40°	383.6	522.4	693.0	883.8	1091.4	1321.2	1567.8	1811.6	2021.7	2157.8	2246.1
37.5°	443.0	603.7	786.5	1000.9	1237.5	1490.2	1758.5	1986.9	2149.8	2246.1	2481.3
35°	499.3	680.9	889.3	1122.1	1377.0	1660.6	1917.8	2126.1	2229.9	2459.8	2896.0
32.5°	560.5	753.9	986.7	1244.5	1525.7	1815.6	2067.7	2197.8	2395.8	2755.0	3618.7
30°	622.8	836.4	1082.4	1359.7	1667.4	1947.5	2150.5	2290.4	2584.6	3403.1	5735.7
27.5°	680.9	914.5	1181.3	1478.1	1796.3	2071.2	2210.0	2456.5	3048.6	4498.4	8499.0
25°	734.5	986.7	1272.9	1591.5	1902.5	2140.0	2289.6	2611.5	3584.3	6924.4	10973.2
22.5°	788.9	1053.0	1356.8	1695.5	2000.0	2187.3	2422.2	3022.8	4769.5	9169.2	13243.2
20°	843.0	1122.1	1438.6	1787.4	2088.6	2230.2	2543.0	3442.7	6683.0	11106.0	15184.4
17.5°	891.2	1183.7	1515.5	1859.9	2131.8	2297.8	2690.2	3819.8	8405.1	12853.3	16872.6
15°	933.2	1237.5	1582.8	1923.4	2162.8	2385.4	2996.3	5072.4	9872.3	14351.7	18371.2
12.5°	969.0	1283.4	1640.2	1977.7	2189.3	2460.3	3258.5	6275.4	11098.7	15542.5	19717.0
10°	998.5	1321.2	1687.4	2022.4	2211.1	2522.2	3475.3	7271.6	12115.7	16531.9	20837.6
7.5°	1021.6	1350.7	1724.4	2057.4	2228.2	2570.7	3645.5	8054.0	12915.6	17311.3	21722.1
5°	1038.1	1371.9	1750.9	2082.5	2240.5	2605.6	3767.8	8617.0	13491.8	17873.4	22360.9
2.5°	1048.0	1384.6	1766.9	2097.7	2247.9	2626.6	3841.5	8956.5	13839.6	18212.9	22747.2
0°	1051.3	1388.9	1772.2	2102.7	2250.4	2633.6	3866.1	9070.0	13955.8	18326.4	22876.4
-2.5°	1048.0	1384.6	1766.9	2097.7	2247.9	2626.6	3841.5	8956.5	13839.6	18212.9	22747.2
-5°	1038.1	1371.9	1750.9	2082.5	2240.5	2605.6	3767.8	8617.0	13491.8	17873.4	22360.9
-7.5°	1021.6	1350.7	1724.4	2057.4	2228.2	2570.7	3645.5	8054.0	12915.6	17311.3	21722.1
-10°	998.5	1321.2	1687.4	2022.4	2211.1	2522.2	3475.3	7271.6	12115.7	16531.9	20837.6
-12.5°	969.0	1283.4	1640.2	1977.7	2189.3	2460.3	3258.5	6275.4	11098.7	15542.5	19717.0
-15°	933.2	1237.5	1582.8	1923.4	2162.8	2385.4	2996.3	5072.4	9872.3	14351.7	18371.2
-17.5°	891.2	1183.7	1515.5	1859.9	2131.8	2297.8	2690.2	3819.8	8405.1	12853.3	16872.6
-20°	843.0	1122.1	1438.6	1787.4	2088.6	2230.2	2543.0	3442.7	6683.0	11106.0	15184.4



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	788.9	1053.0	1356.8	1695.5	2000.0	2187.3	2422.2	3022.8	4769.5	9169.2	13243.2
-25°	734.5	986.7	1272.9	1591.5	1902.5	2140.0	2289.6	2611.5	3584.3	6924.4	10973.2
-27.5°	680.9	914.5	1181.3	1478.1	1796.3	2071.2	2210.0	2456.5	3048.6	4498.4	8499.0
-30°	622.8	836.4	1082.4	1359.7	1667.4	1947.5	2150.5	2290.4	2584.6	3403.1	5735.7
-32.5°	560.5	753.9	986.7	1244.5	1525.7	1815.6	2067.7	2197.8	2395.8	2755.0	3618.7
-35°	499.3	680.9	889.3	1122.1	1377.0	1660.6	1917.8	2126.1	2229.9	2459.8	2896.0
-37.5°	443.0	603.7	786.5	1000.9	1237.5	1490.2	1758.5	1986.9	2149.8	2246.1	2481.3
-40°	383.6	522.4	693.0	883.8	1091.4	1321.2	1567.8	1811.6	2021.7	2157.8	2246.1
-42.5°	323.4	453.9	600.5	761.5	954.2	1157.8	1371.9	1606.9	1828.7	2021.7	2149.8
-45°	275.7	382.8	507.3	656.9	817.5	996.9	1191.2	1388.9	1606.9	1811.6	1986.9
-47.5°	226.2	314.3	427.2	549.0	691.1	845.7	1011.2	1191.2	1371.9	1567.8	1758.5
-50°	181.2	258.3	344.5	454.1	571.6	702.5	845.7	996.9	1157.8	1321.2	1490.2
-52.5°	153.4	200.5	277.7	362.3	463.1	571.6	691.1	817.5	954.2	1091.4	1237.5
-55°	124.9	163.5	213.4	284.2	362.3	454.1	549.0	656.9	761.5	883.8	1000.9
-57.5°	101.3	131.5	166.8	213.4	277.7	344.5	427.2	507.3	600.5	693.0	786.5
-60°	80.6	103.6	131.5	163.5	200.5	258.3	314.3	382.8	453.9	522.4	603.7
-62.5°	61.2	80.6	101.3	124.9	153.4	181.2	226.2	275.7	323.4	383.6	443.0
-65°	49.3	59.9	76.0	94.5	112.4	136.8	161.2	184.8	225.0	266.3	305.7
-67.5°	37.2	46.8	56.2	67.0	83.1	98.8	114.0	135.0	155.3	174.7	197.9
-70°	30.7	34.4	41.8	50.0	57.9	67.4	80.8	93.8	106.3	119.9	136.3
-72.5°	25.3	28.5	31.7	34.9	41.4	48.1	54.5	60.8	69.6	80.0	89.9
-75°	20.7	22.7	25.3	28.0	30.6	33.1	36.0	41.3	46.4	51.3	56.0
-77.5°	16.7	18.4	20.0	21.6	23.3	25.3	27.4	29.3	31.2	33.0	34.6
-80°	13.0	14.0	15.3	16.6	17.9	19.1	20.2	21.3	22.4	23.6	25.0
-82.5°	9.7	10.5	11.3	12.1	12.8	13.6	14.3	15.1	15.9	16.7	17.4
-85°	6.5	7.0	7.5	8.0	8.5	9.0	9.5	9.9	10.4	10.8	11.2
-87.5°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
-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°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
85°	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	13.9
82.5°	18.1	18.7	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.3	22.5
80°	26.2	27.4	28.6	29.6	30.5	31.4	32.2	32.9	33.5	34.0	34.4
77.5°	37.6	41.0	44.2	47.2	50.0	52.5	54.7	56.7	58.4	59.9	61.1
75°	60.4	65.5	72.5	79.1	85.1	90.5	95.5	99.8	103.6	106.9	109.5
72.5°	99.2	108.0	117.1	128.2	138.4	147.7	156.0	163.5	170.0	175.5	180.0
70°	151.8	166.4	180.1	197.1	219.5	239.9	258.3	274.6	288.9	301.0	311.0
67.5°	231.4	262.9	292.5	320.0	351.3	382.8	411.3	436.5	458.6	477.4	492.8
65°	348.3	396.3	441.4	483.3	522.4	566.5	606.4	641.8	672.7	699.1	720.7
62.5°	499.3	560.5	622.8	680.9	734.5	788.9	843.0	891.2	933.2	969.0	998.5
60°	680.9	753.9	836.4	914.5	986.7	1053.0	1122.1	1183.7	1237.5	1283.4	1321.2
57.5°	889.3	986.7	1082.4	1181.3	1272.9	1356.8	1438.6	1515.5	1582.8	1640.2	1687.4
55°	1122.1	1244.5	1359.7	1478.1	1591.5	1695.5	1787.4	1859.9	1923.4	1977.7	2022.4
52.5°	1377.0	1525.7	1667.4	1796.3	1902.5	2000.0	2088.6	2131.8	2162.8	2189.3	2211.1
50°	1660.6	1815.6	1947.5	2071.2	2140.0	2187.3	2230.2	2297.8	2385.4	2460.3	2522.2
47.5°	1917.8	2067.7	2150.5	2210.0	2289.6	2422.2	2543.0	2690.2	2996.3	3258.5	3475.3
45°	2126.1	2197.8	2290.4	2456.5	2611.5	3022.8	3442.7	3819.8	5072.4	6275.4	7271.6
42.5°	2229.9	2395.8	2584.6	3048.6	3584.3	4769.5	6683.0	8405.1	9872.3	11098.7	12115.7
40°	2459.8	2755.0	3403.1	4498.4	6924.4	9169.2	11106.0	12853.3	14351.7	15542.5	16531.9
37.5°	2896.0	3618.7	5735.7	8499.0	10973.2	13243.2	15184.4	16872.6	18371.2	19717.0	20837.6
35°	3691.1	6361.2	9434.8	12200.5	14719.1	16897.6	18929.8	20827.4	22515.2	24125.1	25509.9
32.5°	6361.2	9737.5	12821.9	15574.4	18066.2	20486.1	22735.3	25040.6	27115.5	29218.6	31243.2
30°	9434.8	12821.9	15862.0	18672.5	21438.8	24197.7	26941.1	29931.6	32947.4	35913.8	39313.9
27.5°	12200.5	15574.4	18672.5	21759.6	24950.7	28132.0	32083.3	36123.8	41153.0	45564.4	49362.5
25°	14719.1	18066.2	21438.8	24950.7	28659.6	33180.0	38746.9	44775.6	50330.2	55245.7	59398.3
22.5°	16897.6	20486.1	24197.7	28132.0	33180.0	39633.7	46649.1	53286.3	59322.0	64664.9	69513.3
20°	18929.8	22735.3	26941.1	32083.3	38746.9	46649.1	54288.8	61414.0	68063.4	74708.6	80672.7
17.5°	20827.4	25040.6	29931.6	36123.8	44775.6	53286.3	61414.0	69333.5	77402.1	85790.1	93453.9
15°	22515.2	27115.5	32947.4	41153.0	50330.2	59322.0	68063.4	77402.1	87545.4	97776.6	107809.5
12.5°	24125.1	29218.6	35913.8	45564.4	55245.7	64664.9	74708.6	85790.1	97776.6	110246.3	118867.1
10°	25509.9	31243.2	39313.9	49362.5	59398.3	69513.3	80672.7	93453.9	107809.5	118867.1	127158.6
7.5°	26605.2	32849.1	42019.9	52398.3	62727.3	73702.1	86289.0	100782.1	114906.6	125487.9	132190.0
5°	27397.8	34013.6	43987.7	54613.6	65167.3	76790.3	90461.6	106342.2	119709.8	129339.2	135242.6
2.5°	27877.6	34719.7	45183.0	55962.6	66657.9	78684.9	93036.3	109801.3	122733.9	131472.9	136882.2
0°	28038.2	34956.3	45584.0	56415.7	67159.4	79323.7	93907.2	110976.6	123768.5	132128.3	137443.0
-2.5°	27877.6	34719.7	45183.0	55962.6	66657.9	78684.9	93036.3	109801.3	122733.9	131472.9	136882.2
-5°	27397.8	34013.6	43987.7	54613.6	65167.3	76790.3	90461.6	106342.2	119709.8	129339.2	135242.6
-7.5°	26605.2	32849.1	42019.9	52398.3	62727.3	73702.1	86289.0	100782.1	114906.6	125487.9	132190.0
-10°	25509.9	31243.2	39313.9	49362.5	59398.3	69513.3	80672.7	93453.9	107809.5	118867.1	127158.6
-12.5°	24125.1	29218.6	35913.8	45564.4	55245.7	64664.9	74708.6	85790.1	97776.6	110246.3	118867.1
-15°	22515.2	27115.5	32947.4	41153.0	50330.2	59322.0	68063.4	77402.1	87545.4	97776.6	107809.5
-17.5°	20827.4	25040.6	29931.6	36123.8	44775.6	53286.3	61414.0	69333.5	77402.1	85790.1	93453.9
-20°	18929.8	22735.3	26941.1	32083.3	38746.9	46649.1	54288.8	61414.0	68063.4	74708.6	80672.7



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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°	16897.6	20486.1	24197.7	28132.0	33180.0	39633.7	46649.1	53286.3	59322.0	64664.9	69513.3
-25°	14719.1	18066.2	21438.8	24950.7	28659.6	33180.0	38746.9	44775.6	50330.2	55245.7	59398.3
-27.5°	12200.5	15574.4	18672.5	21759.6	24950.7	28132.0	32083.3	36123.8	41153.0	45564.4	49362.5
-30°	9434.8	12821.9	15862.0	18672.5	21438.8	24197.7	26941.1	29931.6	32947.4	35913.8	39313.9
-32.5°	6361.2	9737.5	12821.9	15574.4	18066.2	20486.1	22735.3	25040.6	27115.5	29218.6	31243.2
-35°	3691.1	6361.2	9434.8	12200.5	14719.1	16897.6	18929.8	20827.4	22515.2	24125.1	25509.9
-37.5°	2896.0	3618.7	5735.7	8499.0	10973.2	13243.2	15184.4	16872.6	18371.2	19717.0	20837.6
-40°	2459.8	2755.0	3403.1	4498.4	6924.4	9169.2	11106.0	12853.3	14351.7	15542.5	16531.9
-42.5°	2229.9	2395.8	2584.6	3048.6	3584.3	4769.5	6683.0	8405.1	9872.3	11098.7	12115.7
-45°	2126.1	2197.8	2290.4	2456.5	2611.5	3022.8	3442.7	3819.8	5072.4	6275.4	7271.6
-47.5°	1917.8	2067.7	2150.5	2210.0	2289.6	2422.2	2543.0	2690.2	2996.3	3258.5	3475.3
-50°	1660.6	1815.6	1947.5	2071.2	2140.0	2187.3	2230.2	2297.8	2385.4	2460.3	2522.2
-52.5°	1377.0	1525.7	1667.4	1796.3	1902.5	2000.0	2088.6	2131.8	2162.8	2189.3	2211.1
-55°	1122.1	1244.5	1359.7	1478.1	1591.5	1695.5	1787.4	1859.9	1923.4	1977.7	2022.4
-57.5°	889.3	986.7	1082.4	1181.3	1272.9	1356.8	1438.6	1515.5	1582.8	1640.2	1687.4
-60°	680.9	753.9	836.4	914.5	986.7	1053.0	1122.1	1183.7	1237.5	1283.4	1321.2
-62.5°	499.3	560.5	622.8	680.9	734.5	788.9	843.0	891.2	933.2	969.0	998.5
-65°	348.3	396.3	441.4	483.3	522.4	566.5	606.4	641.8	672.7	699.1	720.7
-67.5°	231.4	262.9	292.5	320.0	351.3	382.8	411.3	436.5	458.6	477.4	492.8
-70°	151.8	166.4	180.1	197.1	219.5	239.9	258.3	274.6	288.9	301.0	311.0
-72.5°	99.2	108.0	117.1	128.2	138.4	147.7	156.0	163.5	170.0	175.5	180.0
-75°	60.4	65.5	72.5	79.1	85.1	90.5	95.5	99.8	103.6	106.9	109.5
-77.5°	37.6	41.0	44.2	47.2	50.0	52.5	54.7	56.7	58.4	59.9	61.1
-80°	26.2	27.4	28.6	29.6	30.5	31.4	32.2	32.9	33.5	34.0	34.4
-82.5°	18.1	18.7	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.3	22.5
-85°	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	13.9
-87.5°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-HEG-S

**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°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
85°	14.0	14.0	14.1	14.1	14.1	14.0	14.0	13.9	13.8	13.6	13.4
82.5°	22.7	22.8	22.9	22.9	22.9	22.8	22.7	22.5	22.3	22.0	21.7
80°	34.8	35.0	35.2	35.2	35.2	35.0	34.8	34.4	34.0	33.5	32.9
77.5°	62.1	62.8	63.2	63.3	63.2	62.8	62.1	61.1	59.9	58.4	56.7
75°	111.6	113.1	114.0	114.3	114.0	113.1	111.6	109.5	106.9	103.6	99.8
72.5°	183.5	186.1	187.6	188.1	187.6	186.1	183.5	180.0	175.5	170.0	163.5
70°	318.8	324.3	327.7	328.8	327.7	324.3	318.8	311.0	301.0	288.9	274.6
67.5°	504.9	513.5	518.7	520.4	518.7	513.5	504.9	492.8	477.4	458.6	436.5
65°	737.7	749.8	757.1	759.5	757.1	749.8	737.7	720.7	699.1	672.7	641.8
62.5°	1021.6	1038.1	1048.0	1051.3	1048.0	1038.1	1021.6	998.5	969.0	933.2	891.2
60°	1350.7	1371.9	1384.6	1388.9	1384.6	1371.9	1350.7	1321.2	1283.4	1237.5	1183.7
57.5°	1724.4	1750.9	1766.9	1772.2	1766.9	1750.9	1724.4	1687.4	1640.2	1582.8	1515.5
55°	2057.4	2082.5	2097.7	2102.7	2097.7	2082.5	2057.4	2022.4	1977.7	1923.4	1859.9
52.5°	2228.2	2240.5	2247.9	2250.4	2247.9	2240.5	2228.2	2211.1	2189.3	2162.8	2131.8
50°	2570.7	2605.6	2626.6	2633.6	2626.6	2605.6	2570.7	2522.2	2460.3	2385.4	2297.8
47.5°	3645.5	3767.8	3841.5	3866.1	3841.5	3767.8	3645.5	3475.3	3258.5	2996.3	2690.2
45°	8054.0	8617.0	8956.5	9070.0	8956.5	8617.0	8054.0	7271.6	6275.4	5072.4	3819.8
42.5°	12915.6	13491.8	13839.6	13955.8	13839.6	13491.8	12915.6	12115.7	11098.7	9872.3	8405.1
40°	17311.3	17873.4	18212.9	18326.4	18212.9	17873.4	17311.3	16531.9	15542.5	14351.7	12853.3
37.5°	21722.1	22360.9	22747.2	22876.4	22747.2	22360.9	21722.1	20837.6	19717.0	18371.2	16872.6
35°	26605.2	27397.8	27877.6	28038.2	27877.6	27397.8	26605.2	25509.9	24125.1	22515.2	20827.4
32.5°	32849.1	34013.6	34719.7	34956.3	34719.7	34013.6	32849.1	31243.2	29218.6	27115.5	25040.6
30°	42019.9	43987.7	45183.0	45584.0	45183.0	43987.7	42019.9	39313.9	35913.8	32947.4	29931.6
27.5°	52398.3	54613.6	55962.6	56415.7	55962.6	54613.6	52398.3	49362.5	45564.4	41153.0	36123.8
25°	62727.3	65167.3	66657.9	67159.4	66657.9	65167.3	62727.3	59398.3	55245.7	50330.2	44775.6
22.5°	73702.1	76790.3	78684.9	79323.7	78684.9	76790.3	73702.1	69513.3	64664.9	59322.0	53286.3
20°	86289.0	90461.6	93036.3	93907.2	93036.3	90461.6	86289.0	80672.7	74708.6	68063.4	61414.0
17.5°	100782.1	106342.2	109801.3	110976.6	109801.3	106342.2	100782.1	93453.9	85790.1	77402.1	69333.5
15°	114906.6	119709.8	122733.9	123768.5	122733.9	119709.8	114906.6	107809.5	97776.6	87545.4	77402.1
12.5°	125487.9	129339.2	131472.9	132128.3	131472.9	129339.2	125487.9	118867.1	110246.3	97776.6	85790.1
10°	132190.0	135242.6	136882.2	137443.0	136882.2	135242.6	132190.0	127158.6	118867.1	107809.5	93453.9
7.5°	136354.4	139195.9	140902.8	141504.3	140902.8	139195.9	136354.4	132190.0	125487.9	114906.6	100782.1
5°	139195.9	142150.4	143983.3	144542.2	143983.3	142150.4	139195.9	135242.6	129339.2	119709.8	106342.2
2.5°	140902.8	143983.3	144864.2	144834.1	144864.2	143983.3	140902.8	136882.2	131472.9	122733.9	109801.3
0°	141504.3	144542.2	144834.1	144275.0	144834.1	144542.2	141504.3	137443.0	132128.3	123768.5	110976.6
-2.5°	140902.8	143983.3	144864.2	144834.1	144864.2	143983.3	140902.8	136882.2	131472.9	122733.9	109801.3
-5°	139195.9	142150.4	143983.3	144542.2	143983.3	142150.4	139195.9	135242.6	129339.2	119709.8	106342.2
-7.5°	136354.4	139195.9	140902.8	141504.3	140902.8	139195.9	136354.4	132190.0	125487.9	114906.6	100782.1
-10°	132190.0	135242.6	136882.2	137443.0	136882.2	135242.6	132190.0	127158.6	118867.1	107809.5	93453.9
-12.5°	125487.9	129339.2	131472.9	132128.3	131472.9	129339.2	125487.9	118867.1	110246.3	97776.6	85790.1
-15°	114906.6	119709.8	122733.9	123768.5	122733.9	119709.8	114906.6	107809.5	97776.6	87545.4	77402.1
-17.5°	100782.1	106342.2	109801.3	110976.6	109801.3	106342.2	100782.1	93453.9	85790.1	77402.1	69333.5
-20°	86289.0	90461.6	93036.3	93907.2	93036.3	90461.6	86289.0	80672.7	74708.6	68063.4	61414.0



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	73702.1	76790.3	78684.9	79323.7	78684.9	76790.3	73702.1	69513.3	64664.9	59322.0	53286.3
-25°	62727.3	65167.3	66657.9	67159.4	66657.9	65167.3	62727.3	59398.3	55245.7	50330.2	44775.6
-27.5°	52398.3	54613.6	55962.6	56415.7	55962.6	54613.6	52398.3	49362.5	45564.4	41153.0	36123.8
-30°	42019.9	43987.7	45183.0	45584.0	45183.0	43987.7	42019.9	39313.9	35913.8	32947.4	29931.6
-32.5°	32849.1	34013.6	34719.7	34956.3	34719.7	34013.6	32849.1	31243.2	29218.6	27115.5	25040.6
-35°	26605.2	27397.8	27877.6	28038.2	27877.6	27397.8	26605.2	25509.9	24125.1	22515.2	20827.4
-37.5°	21722.1	22360.9	22747.2	22876.4	22747.2	22360.9	21722.1	20837.6	19717.0	18371.2	16872.6
-40°	17311.3	17873.4	18212.9	18326.4	18212.9	17873.4	17311.3	16531.9	15542.5	14351.7	12853.3
-42.5°	12915.6	13491.8	13839.6	13955.8	13839.6	13491.8	12915.6	12115.7	11098.7	9872.3	8405.1
-45°	8054.0	8617.0	8956.5	9070.0	8956.5	8617.0	8054.0	7271.6	6275.4	5072.4	3819.8
-47.5°	3645.5	3767.8	3841.5	3866.1	3841.5	3767.8	3645.5	3475.3	3258.5	2996.3	2690.2
-50°	2570.7	2605.6	2626.6	2633.6	2626.6	2605.6	2570.7	2522.2	2460.3	2385.4	2297.8
-52.5°	2228.2	2240.5	2247.9	2250.4	2247.9	2240.5	2228.2	2211.1	2189.3	2162.8	2131.8
-55°	2057.4	2082.5	2097.7	2102.7	2097.7	2082.5	2057.4	2022.4	1977.7	1923.4	1859.9
-57.5°	1724.4	1750.9	1766.9	1772.2	1766.9	1750.9	1724.4	1687.4	1640.2	1582.8	1515.5
-60°	1350.7	1371.9	1384.6	1388.9	1384.6	1371.9	1350.7	1321.2	1283.4	1237.5	1183.7
-62.5°	1021.6	1038.1	1048.0	1051.3	1048.0	1038.1	1021.6	998.5	969.0	933.2	891.2
-65°	737.7	749.8	757.1	759.5	757.1	749.8	737.7	720.7	699.1	672.7	641.8
-67.5°	504.9	513.5	518.7	520.4	518.7	513.5	504.9	492.8	477.4	458.6	436.5
-70°	318.8	324.3	327.7	328.8	327.7	324.3	318.8	311.0	301.0	288.9	274.6
-72.5°	183.5	186.1	187.6	188.1	187.6	186.1	183.5	180.0	175.5	170.0	163.5
-75°	111.6	113.1	114.0	114.3	114.0	113.1	111.6	109.5	106.9	103.6	99.8
-77.5°	62.1	62.8	63.2	63.3	63.2	62.8	62.1	61.1	59.9	58.4	56.7
-80°	34.8	35.0	35.2	35.2	35.2	35.0	34.8	34.4	34.0	33.5	32.9
-82.5°	22.7	22.8	22.9	22.9	22.9	22.8	22.7	22.5	22.3	22.0	21.7
-85°	14.0	14.0	14.1	14.1	14.1	14.0	14.0	13.9	13.8	13.6	13.4
-87.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	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°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
85°	13.2	13.0	12.8	12.5	12.2	11.9	11.5	11.2	10.8	10.4	9.9
82.5°	21.3	20.9	20.4	19.9	19.3	18.7	18.1	17.4	16.7	15.9	15.1
80°	32.2	31.4	30.5	29.6	28.6	27.4	26.2	25.0	23.6	22.4	21.3
77.5°	54.7	52.5	50.0	47.2	44.2	41.0	37.6	34.6	33.0	31.2	29.3
75°	95.5	90.5	85.1	79.1	72.5	65.5	60.4	56.0	51.3	46.4	41.3
72.5°	156.0	147.7	138.4	128.2	117.1	108.0	99.2	89.9	80.0	69.6	60.8
70°	258.3	239.9	219.5	197.1	180.1	166.4	151.8	136.3	119.9	106.3	93.8
67.5°	411.3	382.8	351.3	320.0	292.5	262.9	231.4	197.9	174.7	155.3	135.0
65°	606.4	566.5	522.4	483.3	441.4	396.3	348.3	305.7	266.3	225.0	184.8
62.5°	843.0	788.9	734.5	680.9	622.8	560.5	499.3	443.0	383.6	323.4	275.7
60°	1122.1	1053.0	986.7	914.5	836.4	753.9	680.9	603.7	522.4	453.9	382.8
57.5°	1438.6	1356.8	1272.9	1181.3	1082.4	986.7	889.3	786.5	693.0	600.5	507.3
55°	1787.4	1695.5	1591.5	1478.1	1359.7	1244.5	1122.1	1000.9	883.8	761.5	656.9
52.5°	2088.6	2000.0	1902.5	1796.3	1667.4	1525.7	1377.0	1237.5	1091.4	954.2	817.5
50°	2230.2	2187.3	2140.0	2071.2	1947.5	1815.6	1660.6	1490.2	1321.2	1157.8	996.9
47.5°	2543.0	2422.2	2289.6	2210.0	2150.5	2067.7	1917.8	1758.5	1567.8	1371.9	1191.2
45°	3442.7	3022.8	2611.5	2456.5	2290.4	2197.8	2126.1	1986.9	1811.6	1606.9	1388.9
42.5°	6683.0	4769.5	3584.3	3048.6	2584.6	2395.8	2229.9	2149.8	2021.7	1828.7	1606.9
40°	11106.0	9169.2	6924.4	4498.4	3403.1	2755.0	2459.8	2246.1	2157.8	2021.7	1811.6
37.5°	15184.4	13243.2	10973.2	8499.0	5735.7	3618.7	2896.0	2481.3	2246.1	2149.8	1986.9
35°	18929.8	16897.6	14719.1	12200.5	9434.8	6361.2	3691.1	2896.0	2459.8	2229.9	2126.1
32.5°	22735.3	20486.1	18066.2	15574.4	12821.9	9737.5	6361.2	3618.7	2755.0	2395.8	2197.8
30°	26941.1	24197.7	21438.8	18672.5	15862.0	12821.9	9434.8	5735.7	3403.1	2584.6	2290.4
27.5°	32083.3	28132.0	24950.7	21759.6	18672.5	15574.4	12200.5	8499.0	4498.4	3048.6	2456.5
25°	38746.9	33180.0	28659.6	24950.7	21438.8	18066.2	14719.1	10973.2	6924.4	3584.3	2611.5
22.5°	46649.1	39633.7	33180.0	28132.0	24197.7	20486.1	16897.6	13243.2	9169.2	4769.5	3022.8
20°	54288.8	46649.1	38746.9	32083.3	26941.1	22735.3	18929.8	15184.4	11106.0	6683.0	3442.7
17.5°	61414.0	53286.3	44775.6	36123.8	29931.6	25040.6	20827.4	16872.6	12853.3	8405.1	3819.8
15°	68063.4	59322.0	50330.2	41153.0	32947.4	27115.5	22515.2	18371.2	14351.7	9872.3	5072.4
12.5°	74708.6	64664.9	55245.7	45564.4	35913.8	29218.6	24125.1	19717.0	15542.5	11098.7	6275.4
10°	80672.7	69513.3	59398.3	49362.5	39313.9	31243.2	25509.9	20837.6	16531.9	12115.7	7271.6
7.5°	86289.0	73702.1	62727.3	52398.3	42019.9	32849.1	26605.2	21722.1	17311.3	12915.6	8054.0
5°	90461.6	76790.3	65167.3	54613.6	43987.7	34013.6	27397.8	22360.9	17873.4	13491.8	8617.0
2.5°	93036.3	78684.9	66657.9	55962.6	45183.0	34719.7	27877.6	22747.2	18212.9	13839.6	8956.5
0°	93907.2	79323.7	67159.4	56415.7	45584.0	34956.3	28038.2	22876.4	18326.4	13955.8	9070.0
-2.5°	93036.3	78684.9	66657.9	55962.6	45183.0	34719.7	27877.6	22747.2	18212.9	13839.6	8956.5
-5°	90461.6	76790.3	65167.3	54613.6	43987.7	34013.6	27397.8	22360.9	17873.4	13491.8	8617.0
-7.5°	86289.0	73702.1	62727.3	52398.3	42019.9	32849.1	26605.2	21722.1	17311.3	12915.6	8054.0
-10°	80672.7	69513.3	59398.3	49362.5	39313.9	31243.2	25509.9	20837.6	16531.9	12115.7	7271.6
-12.5°	74708.6	64664.9	55245.7	45564.4	35913.8	29218.6	24125.1	19717.0	15542.5	11098.7	6275.4
-15°	68063.4	59322.0	50330.2	41153.0	32947.4	27115.5	22515.2	18371.2	14351.7	9872.3	5072.4
-17.5°	61414.0	53286.3	44775.6	36123.8	29931.6	25040.6	20827.4	16872.6	12853.3	8405.1	3819.8
-20°	54288.8	46649.1	38746.9	32083.3	26941.1	22735.3	18929.8	15184.4	11106.0	6683.0	3442.7



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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°	46649.1	39633.7	33180.0	28132.0	24197.7	20486.1	16897.6	13243.2	9169.2	4769.5	3022.8
-25°	38746.9	33180.0	28659.6	24950.7	21438.8	18066.2	14719.1	10973.2	6924.4	3584.3	2611.5
-27.5°	32083.3	28132.0	24950.7	21759.6	18672.5	15574.4	12200.5	8499.0	4498.4	3048.6	2456.5
-30°	26941.1	24197.7	21438.8	18672.5	15862.0	12821.9	9434.8	5735.7	3403.1	2584.6	2290.4
-32.5°	22735.3	20486.1	18066.2	15574.4	12821.9	9737.5	6361.2	3618.7	2755.0	2395.8	2197.8
-35°	18929.8	16897.6	14719.1	12200.5	9434.8	6361.2	3691.1	2896.0	2459.8	2229.9	2126.1
-37.5°	15184.4	13243.2	10973.2	8499.0	5735.7	3618.7	2896.0	2481.3	2246.1	2149.8	1986.9
-40°	11106.0	9169.2	6924.4	4498.4	3403.1	2755.0	2459.8	2246.1	2157.8	2021.7	1811.6
-42.5°	6683.0	4769.5	3584.3	3048.6	2584.6	2395.8	2229.9	2149.8	2021.7	1828.7	1606.9
-45°	3442.7	3022.8	2611.5	2456.5	2290.4	2197.8	2126.1	1986.9	1811.6	1606.9	1388.9
-47.5°	2543.0	2422.2	2289.6	2210.0	2150.5	2067.7	1917.8	1758.5	1567.8	1371.9	1191.2
-50°	2230.2	2187.3	2140.0	2071.2	1947.5	1815.6	1660.6	1490.2	1321.2	1157.8	996.9
-52.5°	2088.6	2000.0	1902.5	1796.3	1667.4	1525.7	1377.0	1237.5	1091.4	954.2	817.5
-55°	1787.4	1695.5	1591.5	1478.1	1359.7	1244.5	1122.1	1000.9	883.8	761.5	656.9
-57.5°	1438.6	1356.8	1272.9	1181.3	1082.4	986.7	889.3	786.5	693.0	600.5	507.3
-60°	1122.1	1053.0	986.7	914.5	836.4	753.9	680.9	603.7	522.4	453.9	382.8
-62.5°	843.0	788.9	734.5	680.9	622.8	560.5	499.3	443.0	383.6	323.4	275.7
-65°	606.4	566.5	522.4	483.3	441.4	396.3	348.3	305.7	266.3	225.0	184.8
-67.5°	411.3	382.8	351.3	320.0	292.5	262.9	231.4	197.9	174.7	155.3	135.0
-70°	258.3	239.9	219.5	197.1	180.1	166.4	151.8	136.3	119.9	106.3	93.8
-72.5°	156.0	147.7	138.4	128.2	117.1	108.0	99.2	89.9	80.0	69.6	60.8
-75°	95.5	90.5	85.1	79.1	72.5	65.5	60.4	56.0	51.3	46.4	41.3
-77.5°	54.7	52.5	50.0	47.2	44.2	41.0	37.6	34.6	33.0	31.2	29.3
-80°	32.2	31.4	30.5	29.6	28.6	27.4	26.2	25.0	23.6	22.4	21.3
-82.5°	21.3	20.9	20.4	19.9	19.3	18.7	18.1	17.4	16.7	15.9	15.1
-85°	13.2	13.0	12.8	12.5	12.2	11.9	11.5	11.2	10.8	10.4	9.9
-87.5°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
-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°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
85°	9.5	9.0	8.5	8.0	7.5	7.0	6.5	5.9	5.4	4.8	4.2
82.5°	14.3	13.6	12.8	12.1	11.3	10.5	9.7	8.9	8.0	7.2	6.3
80°	20.2	19.1	17.9	16.6	15.3	14.0	13.0	11.9	10.7	9.6	8.4
77.5°	27.4	25.3	23.3	21.6	20.0	18.4	16.7	15.0	13.4	12.0	10.5
75°	36.0	33.1	30.6	28.0	25.3	22.7	20.7	18.6	16.5	14.4	12.6
72.5°	54.5	48.1	41.4	34.9	31.7	28.5	25.3	22.2	19.8	17.3	14.8
70°	80.8	67.4	57.9	50.0	41.8	34.4	30.7	26.9	23.0	20.1	17.3
67.5°	114.0	98.8	83.1	67.0	56.2	46.8	37.2	31.8	27.4	23.0	19.8
65°	161.2	136.8	112.4	94.5	76.0	59.9	49.3	38.4	31.8	26.9	22.2
62.5°	226.2	181.2	153.4	124.9	101.3	80.6	61.2	49.3	37.2	30.7	25.3
60°	314.3	258.3	200.5	163.5	131.5	103.6	80.6	59.9	46.8	34.4	28.5
57.5°	427.2	344.5	277.7	213.4	166.8	131.5	101.3	76.0	56.2	41.8	31.7
55°	549.0	454.1	362.3	284.2	213.4	163.5	124.9	94.5	67.0	50.0	34.9
52.5°	691.1	571.6	463.1	362.3	277.7	200.5	153.4	112.4	83.1	57.9	41.4
50°	845.7	702.5	571.6	454.1	344.5	258.3	181.2	136.8	98.8	67.4	48.1
47.5°	1011.2	845.7	691.1	549.0	427.2	314.3	226.2	161.2	114.0	80.8	54.5
45°	1191.2	996.9	817.5	656.9	507.3	382.8	275.7	184.8	135.0	93.8	60.8
42.5°	1371.9	1157.8	954.2	761.5	600.5	453.9	323.4	225.0	155.3	106.3	69.6
40°	1567.8	1321.2	1091.4	883.8	693.0	522.4	383.6	266.3	174.7	119.9	80.0
37.5°	1758.5	1490.2	1237.5	1000.9	786.5	603.7	443.0	305.7	197.9	136.3	89.9
35°	1917.8	1660.6	1377.0	1122.1	889.3	680.9	499.3	348.3	231.4	151.8	99.2
32.5°	2067.7	1815.6	1525.7	1244.5	986.7	753.9	560.5	396.3	262.9	166.4	108.0
30°	2150.5	1947.5	1667.4	1359.7	1082.4	836.4	622.8	441.4	292.5	180.1	117.1
27.5°	2210.0	2071.2	1796.3	1478.1	1181.3	914.5	680.9	483.3	320.0	197.1	128.2
25°	2289.6	2140.0	1902.5	1591.5	1272.9	986.7	734.5	522.4	351.3	219.5	138.4
22.5°	2422.2	2187.3	2000.0	1695.5	1356.8	1053.0	788.9	566.5	382.8	239.9	147.7
20°	2543.0	2230.2	2088.6	1787.4	1438.6	1122.1	843.0	606.4	411.3	258.3	156.0
17.5°	2690.2	2297.8	2131.8	1859.9	1515.5	1183.7	891.2	641.8	436.5	274.6	163.5
15°	2996.3	2385.4	2162.8	1923.4	1582.8	1237.5	933.2	672.7	458.6	288.9	170.0
12.5°	3258.5	2460.3	2189.3	1977.7	1640.2	1283.4	969.0	699.1	477.4	301.0	175.5
10°	3475.3	2522.2	2211.1	2022.4	1687.4	1321.2	998.5	720.7	492.8	311.0	180.0
7.5°	3645.5	2570.7	2228.2	2057.4	1724.4	1350.7	1021.6	737.7	504.9	318.8	183.5
5°	3767.8	2605.6	2240.5	2082.5	1750.9	1371.9	1038.1	749.8	513.5	324.3	186.1
2.5°	3841.5	2626.6	2247.9	2097.7	1766.9	1384.6	1048.0	757.1	518.7	327.7	187.6
0°	3866.1	2633.6	2250.4	2102.7	1772.2	1388.9	1051.3	759.5	520.4	328.8	188.1
-2.5°	3841.5	2626.6	2247.9	2097.7	1766.9	1384.6	1048.0	757.1	518.7	327.7	187.6
-5°	3767.8	2605.6	2240.5	2082.5	1750.9	1371.9	1038.1	749.8	513.5	324.3	186.1
-7.5°	3645.5	2570.7	2228.2	2057.4	1724.4	1350.7	1021.6	737.7	504.9	318.8	183.5
-10°	3475.3	2522.2	2211.1	2022.4	1687.4	1321.2	998.5	720.7	492.8	311.0	180.0
-12.5°	3258.5	2460.3	2189.3	1977.7	1640.2	1283.4	969.0	699.1	477.4	301.0	175.5
-15°	2996.3	2385.4	2162.8	1923.4	1582.8	1237.5	933.2	672.7	458.6	288.9	170.0
-17.5°	2690.2	2297.8	2131.8	1859.9	1515.5	1183.7	891.2	641.8	436.5	274.6	163.5
-20°	2543.0	2230.2	2088.6	1787.4	1438.6	1122.1	843.0	606.4	411.3	258.3	156.0



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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°	2422.2	2187.3	2000.0	1695.5	1356.8	1053.0	788.9	566.5	382.8	239.9	147.7
-25°	2289.6	2140.0	1902.5	1591.5	1272.9	986.7	734.5	522.4	351.3	219.5	138.4
-27.5°	2210.0	2071.2	1796.3	1478.1	1181.3	914.5	680.9	483.3	320.0	197.1	128.2
-30°	2150.5	1947.5	1667.4	1359.7	1082.4	836.4	622.8	441.4	292.5	180.1	117.1
-32.5°	2067.7	1815.6	1525.7	1244.5	986.7	753.9	560.5	396.3	262.9	166.4	108.0
-35°	1917.8	1660.6	1377.0	1122.1	889.3	680.9	499.3	348.3	231.4	151.8	99.2
-37.5°	1758.5	1490.2	1237.5	1000.9	786.5	603.7	443.0	305.7	197.9	136.3	89.9
-40°	1567.8	1321.2	1091.4	883.8	693.0	522.4	383.6	266.3	174.7	119.9	80.0
-42.5°	1371.9	1157.8	954.2	761.5	600.5	453.9	323.4	225.0	155.3	106.3	69.6
-45°	1191.2	996.9	817.5	656.9	507.3	382.8	275.7	184.8	135.0	93.8	60.8
-47.5°	1011.2	845.7	691.1	549.0	427.2	314.3	226.2	161.2	114.0	80.8	54.5
-50°	845.7	702.5	571.6	454.1	344.5	258.3	181.2	136.8	98.8	67.4	48.1
-52.5°	691.1	571.6	463.1	362.3	277.7	200.5	153.4	112.4	83.1	57.9	41.4
-55°	549.0	454.1	362.3	284.2	213.4	163.5	124.9	94.5	67.0	50.0	34.9
-57.5°	427.2	344.5	277.7	213.4	166.8	131.5	101.3	76.0	56.2	41.8	31.7
-60°	314.3	258.3	200.5	163.5	131.5	103.6	80.6	59.9	46.8	34.4	28.5
-62.5°	226.2	181.2	153.4	124.9	101.3	80.6	61.2	49.3	37.2	30.7	25.3
-65°	161.2	136.8	112.4	94.5	76.0	59.9	49.3	38.4	31.8	26.9	22.2
-67.5°	114.0	98.8	83.1	67.0	56.2	46.8	37.2	31.8	27.4	23.0	19.8
-70°	80.8	67.4	57.9	50.0	41.8	34.4	30.7	26.9	23.0	20.1	17.3
-72.5°	54.5	48.1	41.4	34.9	31.7	28.5	25.3	22.2	19.8	17.3	14.8
-75°	36.0	33.1	30.6	28.0	25.3	22.7	20.7	18.6	16.5	14.4	12.6
-77.5°	27.4	25.3	23.3	21.6	20.0	18.4	16.7	15.0	13.4	12.0	10.5
-80°	20.2	19.1	17.9	16.6	15.3	14.0	13.0	11.9	10.7	9.6	8.4
-82.5°	14.3	13.6	12.8	12.1	11.3	10.5	9.7	8.9	8.0	7.2	6.3
-85°	9.5	9.0	8.5	8.0	7.5	7.0	6.5	5.9	5.4	4.8	4.2
-87.5°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
-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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
77.5°	9.0	7.5	6.0	4.5	3.0	1.5	0.0
75°	10.8	9.0	7.2	5.4	3.6	1.8	0.0
72.5°	12.6	10.5	8.4	6.3	4.2	2.1	0.0
70°	14.4	12.0	9.6	7.2	4.8	2.4	0.0
67.5°	16.5	13.4	10.7	8.0	5.4	2.7	0.0
65°	18.6	15.0	11.9	8.9	5.9	3.0	0.0
62.5°	20.7	16.7	13.0	9.7	6.5	3.2	0.0
60°	22.7	18.4	14.0	10.5	7.0	3.5	0.0
57.5°	25.3	20.0	15.3	11.3	7.5	3.8	0.0
55°	28.0	21.6	16.6	12.1	8.0	4.0	0.0
52.5°	30.6	23.3	17.9	12.8	8.5	4.3	0.0
50°	33.1	25.3	19.1	13.6	9.0	4.5	0.0
47.5°	36.0	27.4	20.2	14.3	9.5	4.7	0.0
45°	41.3	29.3	21.3	15.1	9.9	4.9	0.0
42.5°	46.4	31.2	22.4	15.9	10.4	5.2	0.0
40°	51.3	33.0	23.6	16.7	10.8	5.4	0.0
37.5°	56.0	34.6	25.0	17.4	11.2	5.6	0.0
35°	60.4	37.6	26.2	18.1	11.5	5.7	0.0
32.5°	65.5	41.0	27.4	18.7	11.9	5.9	0.0
30°	72.5	44.2	28.6	19.3	12.2	6.1	0.0
27.5°	79.1	47.2	29.6	19.9	12.5	6.2	0.0
25°	85.1	50.0	30.5	20.4	12.8	6.3	0.0
22.5°	90.5	52.5	31.4	20.9	13.0	6.5	0.0
20°	95.5	54.7	32.2	21.3	13.2	6.6	0.0
17.5°	99.8	56.7	32.9	21.7	13.4	6.7	0.0
15°	103.6	58.4	33.5	22.0	13.6	6.8	0.0
12.5°	106.9	59.9	34.0	22.3	13.8	6.8	0.0
10°	109.5	61.1	34.4	22.5	13.9	6.9	0.0
7.5°	111.6	62.1	34.8	22.7	14.0	6.9	0.0
5°	113.1	62.8	35.0	22.8	14.0	7.0	0.0
2.5°	114.0	63.2	35.2	22.9	14.1	7.0	0.0
0°	114.3	63.3	35.2	22.9	14.1	7.0	0.0
-2.5°	114.0	63.2	35.2	22.9	14.1	7.0	0.0
-5°	113.1	62.8	35.0	22.8	14.0	7.0	0.0
-7.5°	111.6	62.1	34.8	22.7	14.0	6.9	0.0
-10°	109.5	61.1	34.4	22.5	13.9	6.9	0.0
-12.5°	106.9	59.9	34.0	22.3	13.8	6.8	0.0
-15°	103.6	58.4	33.5	22.0	13.6	6.8	0.0
-17.5°	99.8	56.7	32.9	21.7	13.4	6.7	0.0
-20°	95.5	54.7	32.2	21.3	13.2	6.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	90.5	52.5	31.4	20.9	13.0	6.5	0.0
-25°	85.1	50.0	30.5	20.4	12.8	6.3	0.0
-27.5°	79.1	47.2	29.6	19.9	12.5	6.2	0.0
-30°	72.5	44.2	28.6	19.3	12.2	6.1	0.0
-32.5°	65.5	41.0	27.4	18.7	11.9	5.9	0.0
-35°	60.4	37.6	26.2	18.1	11.5	5.7	0.0
-37.5°	56.0	34.6	25.0	17.4	11.2	5.6	0.0
-40°	51.3	33.0	23.6	16.7	10.8	5.4	0.0
-42.5°	46.4	31.2	22.4	15.9	10.4	5.2	0.0
-45°	41.3	29.3	21.3	15.1	9.9	4.9	0.0
-47.5°	36.0	27.4	20.2	14.3	9.5	4.7	0.0
-50°	33.1	25.3	19.1	13.6	9.0	4.5	0.0
-52.5°	30.6	23.3	17.9	12.8	8.5	4.3	0.0
-55°	28.0	21.6	16.6	12.1	8.0	4.0	0.0
-57.5°	25.3	20.0	15.3	11.3	7.5	3.8	0.0
-60°	22.7	18.4	14.0	10.5	7.0	3.5	0.0
-62.5°	20.7	16.7	13.0	9.7	6.5	3.2	0.0
-65°	18.6	15.0	11.9	8.9	5.9	3.0	0.0
-67.5°	16.5	13.4	10.7	8.0	5.4	2.7	0.0
-70°	14.4	12.0	9.6	7.2	4.8	2.4	0.0
-72.5°	12.6	10.5	8.4	6.3	4.2	2.1	0.0
-75°	10.8	9.0	7.2	5.4	3.6	1.8	0.0
-77.5°	9.0	7.5	6.0	4.5	3.0	1.5	0.0
-80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
-82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

