

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: P701590 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-3S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701590 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-57-80-3S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

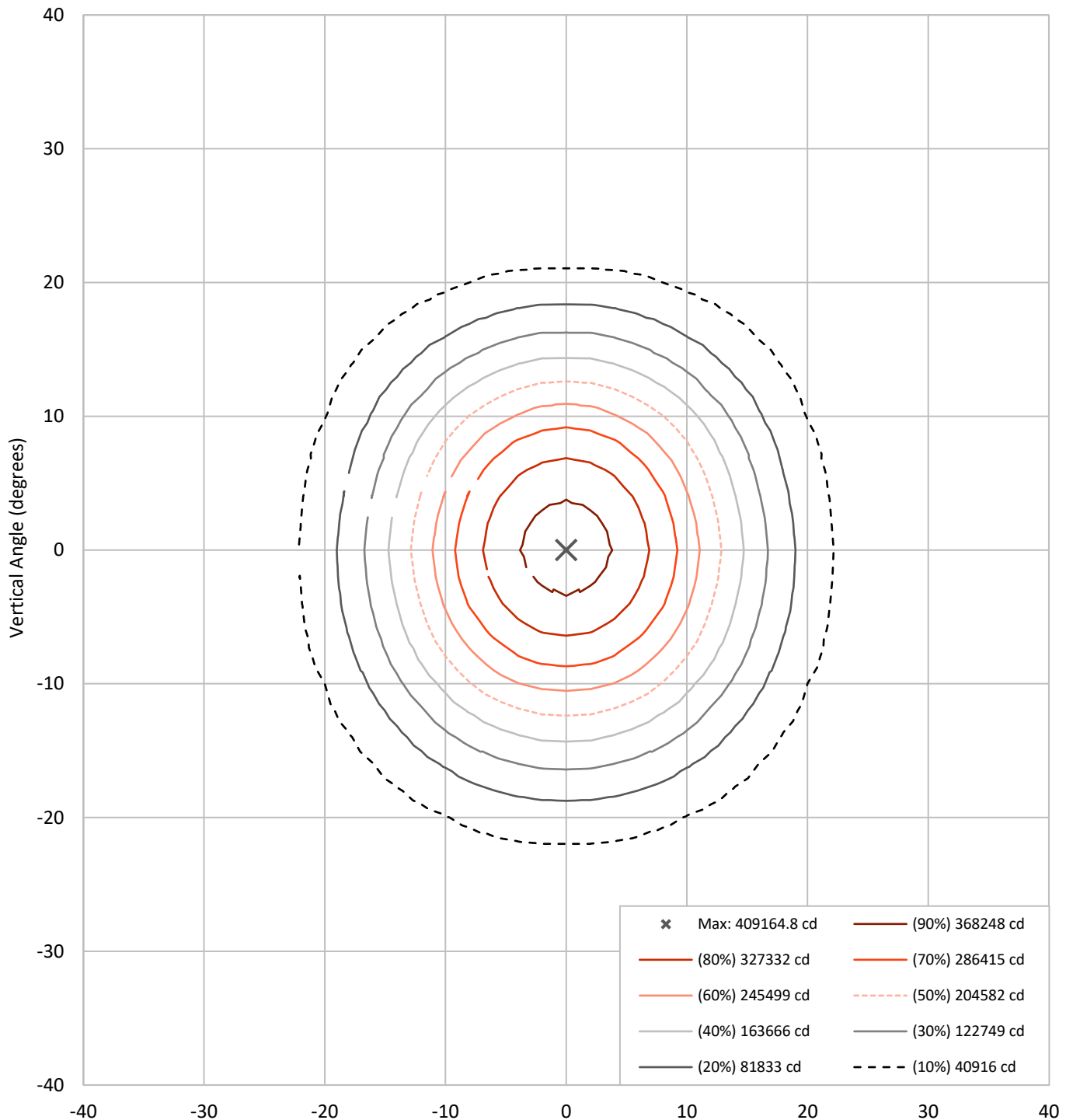
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	91927.2 lumens	Max Intensity:	409164.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	43983.3 lumens	Field Lumens:	77069.6 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

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





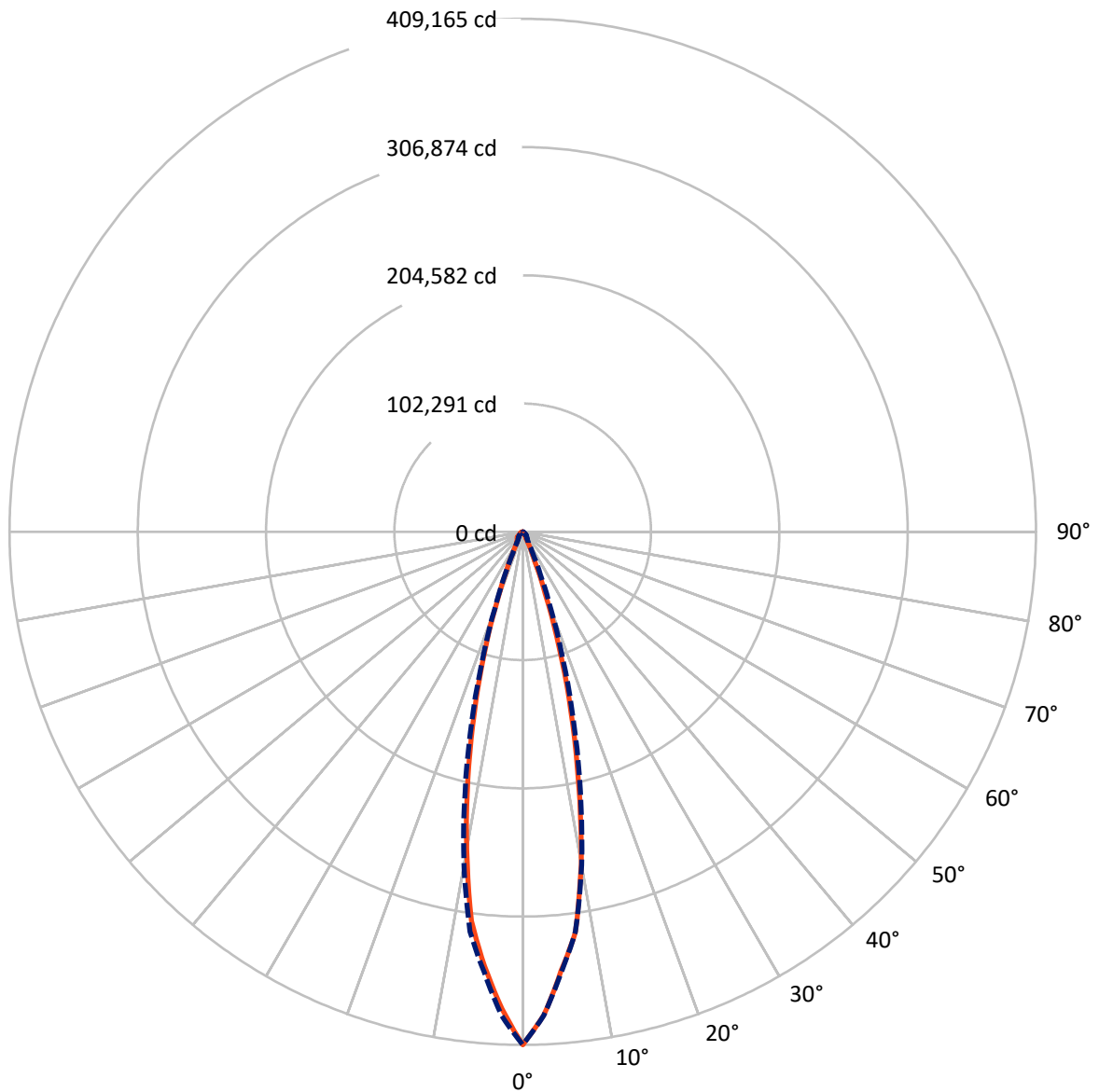
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### Lumen Table

90	0.2		0.7		1.4		2.2		2.6		2.2		1.4		0.7		0.2	
80	0.2		0.7		1.4		2.2		2.6		2.2		1.4		0.7		0.2	
70	0.3	0.1	0.2	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.2	0.1	0.3	0.3	0.3
60		0.4	0.9	1.2	1.0	1.0	1.3	1.6	1.6	1.3	1.0	1.0	1.2	0.9	0.4			
50	0.9	1.3	3.1	6.4	11.9	20.3	28.9	32.7	32.7	28.9	20.3	11.9	6.4	3.1	1.3	0.9	0.9	0.9
40		3.2	9.8	20.1	37.9	62.8	76.0	89.1	89.1	76.0	62.8	37.9	20.1	9.8	3.2			
30	2.1	5.3	16.4	36.0	80.6	103.7	224.0	489.8	489.8	224.0	103.7	80.6	36.0	16.4	5.3	2.1	2.1	2.1
20		7.0	21.6	58.5	115.7	279.7	1684.9	4073.4	4073.4	1684.9	279.7	115.7	58.5	21.6	7.0			
10	3.1	8.5	25.0	74.5	140.1	620.9	4092.3	9321.0	9321.0	4092.3	620.9	140.1	74.5	25.0	8.5	3.1	3.1	3.1
0		9.4	27.5	78.9	155.2	639.9	4117.1	9224.3	9224.3	4117.1	639.9	155.2	78.9	27.5	9.4			
-10	3.4	9.5	28.4	76.2	154.7	343.1	1756.9	4111.4	4111.4	1756.9	343.1	154.7	76.2	28.4	9.5	3.4	3.4	3.4
-20		8.7	27.1	60.3	139.2	210.2	364.2	692.5	692.5	364.2	210.2	139.2	60.3	27.1	8.7			
-30	2.8	7.5	23.2	48.2	96.2	168.1	207.5	230.3	230.3	207.5	168.1	96.2	48.2	23.2	7.5	2.8	2.8	2.8
-40		5.8	17.7	37.4	60.9	89.8	131.7	164.1	164.1	131.7	89.8	60.9	37.4	17.7	5.8			
-50	2.3	3.9	11.5	24.4	41.0	55.8	67.7	75.1	75.1	67.7	55.8	41.0	24.4	11.5	3.9	2.3	2.3	2.3
-60		2.8	6.1	12.6	21.3	29.4	37.1	41.8	41.8	37.1	29.4	21.3	12.6	6.1	2.8			
-70	1.7	1.7	10.1	23.3	38.0	46.6	38.0	23.3	10.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
-80		1.7	10.1	23.3	38.0	46.6	38.0	23.3	10.1	1.7								
-90	1.7		10.1		23.3		38.0		46.6		38.0		23.3		10.1		1.7	

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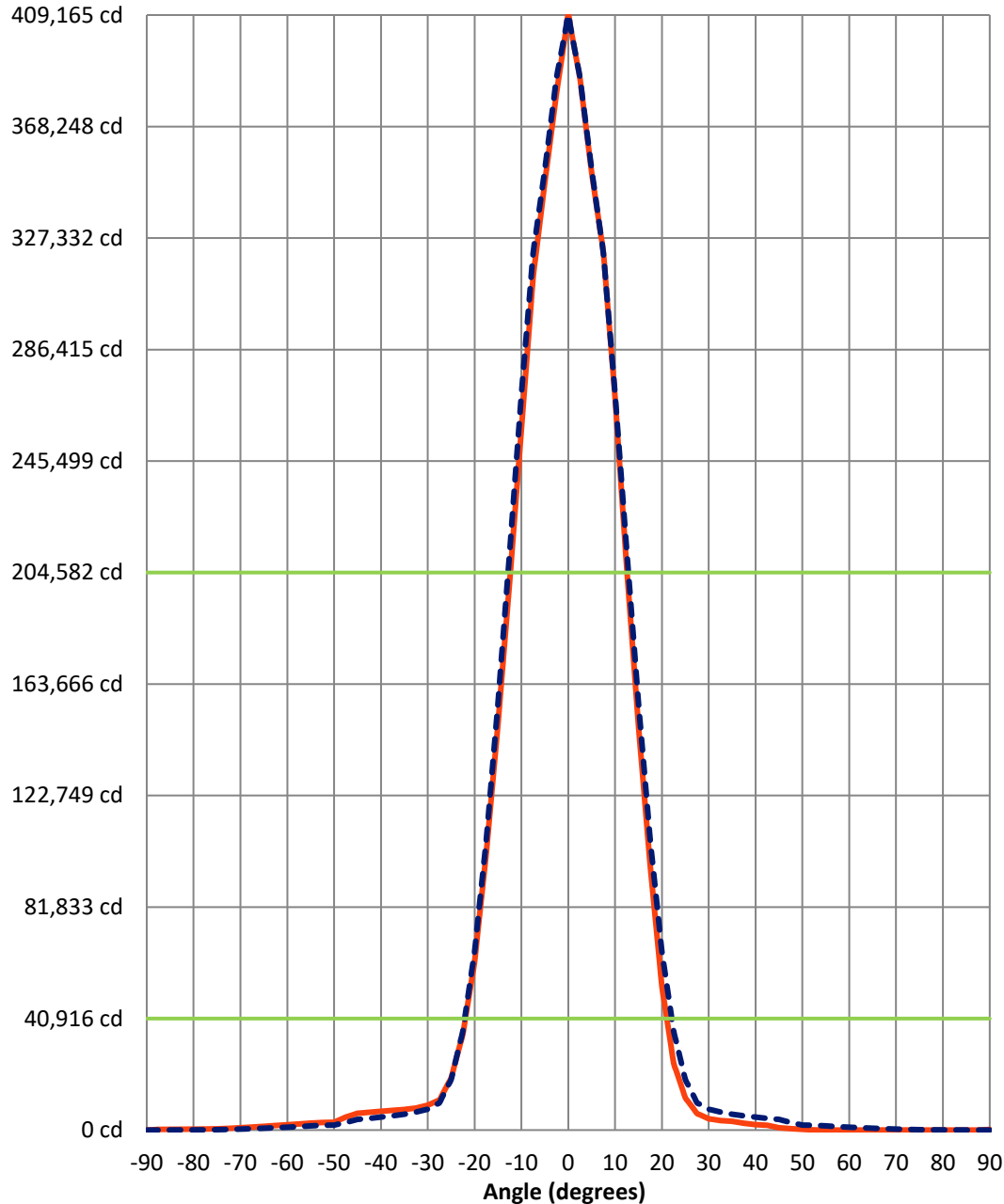
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 25.7°  
 V Angle: 24.9°  
 Lumens: 43983.3  
 Efficiency: 47.8%

**Field:**  
 H Angle: 44.2°  
 V Angle: 43°  
 Lumens: 77069.6  
 Efficiency: 83.8%

**Spill:**  
 Lumens: 14857.6  
 Efficiency: 16.2%

— 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°	3.3	13.7	24.1	38.9	53.7	66.3	78.9	88.2	97.5	105.2	112.8
87.5°	3.3	3.6	3.5	3.6	3.7	3.7	3.6	3.2	3.0	2.8	2.7
85°	3.3	3.8	3.7	3.9	4.1	4.0	3.9	3.7	3.7	3.5	3.1
82.5°	3.3	4.1	3.9	4.2	4.4	4.4	4.2	4.2	4.4	4.0	3.6
80°	3.3	4.4	4.1	4.4	4.8	4.8	4.5	4.7	4.8	4.5	4.1
77.5°	3.3	4.6	4.3	4.7	5.2	5.2	5.1	5.3	5.2	4.9	4.6
75°	3.3	4.9	4.6	5.0	5.6	5.8	5.7	5.8	5.7	5.6	5.2
72.5°	3.3	5.2	4.8	5.3	6.2	6.5	6.4	6.5	6.6	6.4	5.8
70°	3.3	5.4	5.1	5.6	6.8	7.1	7.1	7.6	7.6	7.2	7.3
67.5°	3.3	5.7	5.4	6.3	7.5	7.8	8.5	8.8	8.7	9.1	9.1
65°	3.3	6.0	5.8	6.9	8.2	8.9	9.9	10.1	11.0	11.2	11.1
62.5°	3.3	6.3	6.1	7.6	8.9	10.3	11.4	12.2	13.4	13.4	13.4
60°	3.3	6.6	6.5	8.3	9.6	11.8	12.9	14.7	16.0	16.3	16.0
57.5°	3.3	6.8	7.2	8.9	11.1	13.4	15.4	17.4	19.4	19.7	21.7
55°	3.3	7.1	8.0	9.6	12.6	15.0	17.9	20.3	23.4	24.7	29.4
52.5°	3.3	7.4	8.8	10.3	14.1	16.8	20.5	24.3	27.7	34.0	37.7
50°	3.3	7.7	9.6	11.1	15.7	19.2	23.2	28.6	33.9	44.1	53.1
47.5°	3.3	8.0	10.4	11.9	17.4	21.8	26.1	33.2	44.1	55.1	71.5
45°	3.3	8.3	11.2	13.2	19.0	24.4	30.2	37.9	54.8	73.9	91.9
42.5°	3.3	8.6	12.1	14.5	20.7	27.2	34.3	45.6	66.0	94.2	123.2
40°	3.3	8.9	12.9	16.1	22.7	30.0	38.8	55.7	80.2	115.9	158.4
37.5°	3.3	9.2	13.8	17.9	24.9	32.9	43.8	66.0	100.0	141.7	196.1
35°	3.3	9.5	14.7	19.7	27.1	36.5	48.9	76.5	120.7	174.9	238.3
32.5°	3.3	9.8	15.6	21.6	29.3	40.5	55.2	87.5	142.1	208.3	280.2
30°	3.3	10.1	16.5	23.4	31.6	44.6	64.3	100.3	164.2	241.8	319.4
27.5°	3.3	10.4	17.4	25.2	34.4	48.6	73.3	117.0	186.5	275.2	355.8
25°	3.3	10.7	18.3	27.0	37.2	52.6	82.1	132.9	209.1	306.5	389.8
22.5°	3.3	11.0	19.2	28.8	40.0	56.6	90.7	147.7	229.8	327.7	426.7
20°	3.3	11.3	20.1	30.5	42.8	60.8	99.0	161.5	248.5	347.3	456.5
17.5°	3.3	11.6	21.0	32.2	45.4	64.7	106.8	174.3	265.3	365.4	484.5
15°	3.3	11.8	21.8	33.9	48.0	68.5	113.9	185.8	280.1	381.9	511.0
12.5°	3.3	12.1	22.6	35.6	50.5	72.0	120.5	196.1	295.2	396.6	535.8
10°	3.3	12.3	23.4	37.1	52.9	75.4	126.5	205.3	310.6	418.6	562.8
7.5°	3.3	12.5	24.2	38.6	55.2	78.5	132.0	213.4	324.9	440.7	596.6
5°	3.3	12.7	25.0	40.1	57.4	81.4	136.8	220.5	337.7	461.5	627.9
2.5°	3.3	12.9	25.7	41.4	59.4	84.1	141.0	226.4	348.9	480.4	656.3
0°	3.3	13.1	26.3	42.7	61.3	86.5	144.6	231.1	358.2	497.3	681.3
-2.5°	3.3	13.6	27.5	44.6	64.0	90.1	149.2	238.9	368.7	508.7	693.0
-5°	3.3	14.2	28.6	46.4	66.6	93.5	153.2	245.5	377.1	517.7	700.9
-7.5°	3.3	14.7	29.7	48.1	69.0	96.6	156.4	250.6	383.3	524.1	705.2
-10°	3.3	15.1	30.7	49.7	71.3	99.5	158.8	254.1	387.1	528.0	705.7
-12.5°	3.3	15.6	31.6	51.1	73.3	102.0	160.5	256.0	388.6	529.1	704.2
-15°	3.3	16.0	32.5	52.5	75.2	104.2	161.4	256.2	386.3	525.8	698.7
-17.5°	3.3	16.4	33.3	53.7	76.9	106.1	161.6	253.9	380.0	519.6	688.4
-20°	3.3	16.8	34.0	54.8	78.4	107.7	161.0	249.6	371.5	510.4	673.0



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-3S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.3	17.1	34.7	55.7	79.6	108.9	159.7	243.7	360.7	498.3	652.8
-25°	3.3	17.4	35.3	56.5	80.7	110.0	157.6	236.4	347.7	483.1	631.6
-27.5°	3.3	17.7	35.8	57.2	81.5	110.9	154.7	227.5	332.5	469.3	616.5
-30°	3.3	17.9	36.2	57.7	82.1	111.5	150.9	217.1	320.1	454.1	598.2
-32.5°	3.3	18.2	36.5	58.1	82.9	111.7	146.3	210.3	309.6	436.4	576.3
-35°	3.3	18.3	36.8	58.3	83.5	111.7	144.6	204.5	296.3	416.2	550.8
-37.5°	3.3	18.5	37.0	58.4	83.9	111.6	144.2	197.9	280.3	393.6	524.0
-40°	3.3	18.6	37.1	58.3	84.1	111.8	143.3	190.0	261.5	371.6	493.7
-42.5°	3.3	18.6	37.1	58.2	84.1	111.7	142.1	180.7	247.4	345.2	458.7
-45°	3.3	18.7	37.0	58.1	84.0	111.4	140.3	173.7	235.1	315.9	420.1
-47.5°	3.3	18.7	36.9	57.8	83.7	110.8	138.1	170.9	221.1	284.4	384.2
-50°	3.3	18.7	36.7	57.7	83.1	109.9	136.5	167.5	204.6	265.6	345.4
-52.5°	3.3	18.6	36.3	57.4	82.3	108.8	134.7	163.5	195.6	245.3	305.4
-55°	3.3	18.5	36.0	57.0	81.3	107.2	132.6	159.1	189.6	223.6	279.9
-57.5°	3.3	18.3	35.5	56.5	80.0	105.3	130.1	156.0	183.0	212.8	253.2
-60°	3.3	18.2	34.9	55.8	78.5	103.1	127.3	152.3	176.5	204.7	231.0
-62.5°	3.3	18.0	34.4	55.0	77.3	100.7	124.3	148.0	171.2	195.8	220.1
-65°	3.3	17.7	33.8	54.1	75.9	98.1	121.1	143.4	165.5	187.8	208.3
-67.5°	3.3	17.4	33.1	53.0	74.4	95.4	117.5	138.7	159.3	179.9	198.5
-70°	3.3	17.1	32.4	51.7	72.6	92.7	113.7	133.7	153.2	171.7	189.5
-72.5°	3.3	16.8	31.6	50.5	70.6	89.8	109.6	128.4	146.8	163.7	180.0
-75°	3.3	16.4	30.7	49.2	68.5	86.6	105.3	122.7	140.1	155.2	170.1
-77.5°	3.3	16.0	29.7	47.7	66.4	83.2	100.8	116.7	132.8	146.5	159.8
-80°	3.3	15.6	28.7	46.2	64.1	79.9	95.9	110.4	125.1	137.4	149.4
-82.5°	3.3	15.2	27.6	44.5	61.7	76.7	91.8	104.4	117.1	128.1	138.9
-85°	3.3	14.7	26.5	42.7	59.2	73.4	87.7	99.1	110.7	120.0	129.2
-87.5°	3.3	14.2	25.3	40.9	56.5	69.9	83.4	93.7	104.2	112.6	121.1
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.2	2.2	2.2





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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°	118.9	124.9	130.4	135.8	140.8	145.7	152.3	158.8	163.8	168.7	173.6
87.5°	2.7	2.7	2.8	2.8	2.5	2.2	2.2	2.2	2.1	1.9	2.0
85°	3.2	3.3	3.3	3.3	2.9	2.5	2.6	2.7	2.7	2.8	2.5
82.5°	3.7	3.8	3.7	3.3	3.2	3.2	3.3	3.3	3.3	3.3	3.0
80°	4.2	4.4	4.0	3.7	3.8	3.9	3.7	3.4	3.3	3.4	3.5
77.5°	4.6	4.5	4.3	4.3	4.4	4.6	4.5	4.5	4.5	4.3	4.4
75°	4.9	4.6	4.7	4.6	4.6	5.1	5.5	5.5	5.3	5.1	5.2
72.5°	5.8	5.8	5.6	4.9	5.0	5.5	5.5	5.5	6.8	9.1	10.9
70°	7.2	7.1	6.7	6.3	6.1	6.5	8.3	11.3	14.7	17.8	20.7
67.5°	8.7	8.5	8.0	8.0	9.1	10.9	13.2	20.9	29.0	31.8	32.3
65°	10.3	10.0	10.1	11.4	12.9	18.4	25.5	34.8	42.5	42.0	38.8
62.5°	12.1	13.6	13.6	16.3	21.7	28.4	36.6	44.5	51.5	48.1	40.0
60°	17.3	18.3	20.8	25.8	31.4	38.0	46.5	49.1	50.8	49.6	38.9
57.5°	23.9	26.7	31.9	36.6	43.2	46.2	46.9	46.4	49.4	47.4	36.6
55°	33.4	38.3	45.3	50.1	54.0	48.2	47.6	50.6	50.3	46.0	35.5
52.5°	47.8	52.9	62.6	66.2	63.1	58.5	56.9	59.7	57.5	51.7	44.9
50°	63.3	75.7	82.1	84.9	79.3	78.7	73.0	76.6	79.7	76.9	86.6
47.5°	87.0	101.9	106.6	111.7	109.0	119.1	113.9	132.8	134.1	189.2	205.7
45°	115.6	135.6	141.1	154.3	168.9	186.4	216.6	224.6	315.3	370.5	435.7
42.5°	150.1	175.1	197.8	205.3	270.4	305.8	351.1	435.5	519.8	589.1	637.6
40°	194.4	219.9	267.8	324.8	394.1	454.1	540.8	638.4	718.7	772.0	797.0
37.5°	243.2	293.2	355.9	448.2	532.3	608.7	719.4	817.1	888.3	937.6	943.9
35°	295.7	366.7	469.2	562.8	649.7	753.0	863.0	975.3	1033.7	1055.0	1145.5
32.5°	356.8	438.3	559.7	661.3	759.2	876.4	993.3	1090.2	1141.9	1201.8	1508.2
30°	414.7	513.3	634.2	742.2	863.4	996.9	1108.7	1200.1	1235.8	1550.5	2046.1
27.5°	460.9	578.4	699.8	830.1	969.2	1121.8	1234.6	1293.9	1498.1	1963.9	2680.4
25°	503.9	630.4	766.1	928.7	1087.0	1238.3	1353.0	1391.0	1815.5	2605.4	3139.4
22.5°	546.0	681.1	839.2	1033.1	1195.2	1336.4	1432.4	1662.2	2270.6	3271.0	3548.2
20°	588.1	741.1	918.6	1112.0	1290.8	1422.7	1496.4	1948.3	2823.3	3526.7	3838.6
17.5°	628.7	801.5	991.5	1178.4	1358.7	1492.3	1587.6	2189.7	3261.1	3756.1	4063.2
15°	668.2	853.1	1047.8	1240.8	1424.7	1553.3	1811.9	2543.6	3533.0	4033.7	4358.0
12.5°	706.1	897.2	1089.2	1294.9	1488.5	1612.6	2044.5	2972.7	3816.7	4307.2	4657.7
10°	741.9	934.2	1125.3	1344.2	1547.9	1664.2	2262.9	3373.6	4076.3	4501.9	4819.6
7.5°	777.9	967.7	1157.9	1388.8	1603.8	1711.2	2447.5	3592.9	4178.2	4630.5	4933.8
5°	809.8	998.6	1196.5	1443.8	1658.0	1754.5	2603.4	3740.5	4210.4	4694.7	5015.9
2.5°	837.0	1024.3	1230.2	1495.0	1706.8	1793.7	2709.7	3853.0	4249.4	4740.4	5118.1
0°	859.9	1045.0	1258.6	1539.0	1748.2	1829.3	2780.0	3913.7	4274.1	4760.4	5231.4
-2.5°	876.6	1072.6	1303.9	1576.3	1782.2	1866.4	2802.1	3939.8	4310.0	4871.0	5485.8
-5°	889.0	1094.7	1341.8	1606.0	1809.9	1900.7	2786.3	3915.5	4352.8	4973.0	5647.4
-7.5°	896.8	1110.6	1370.9	1628.1	1833.0	1939.2	2738.8	3887.6	4487.0	5101.0	5728.7
-10°	900.4	1118.9	1375.4	1636.4	1851.4	1977.8	2657.6	3793.3	4584.0	5149.9	5735.4
-12.5°	903.5	1120.6	1370.0	1634.9	1862.9	2013.1	2555.5	3679.9	4673.4	5168.3	5693.9
-15°	900.7	1117.1	1357.9	1624.8	1877.6	2057.8	2424.9	3469.7	4713.3	5149.0	5615.9
-17.5°	891.6	1108.6	1341.2	1611.7	1887.0	2099.4	2253.6	3145.8	4499.0	5089.6	5556.5
-20°	876.1	1093.1	1317.4	1586.6	1881.9	2117.4	2249.3	2908.7	4050.1	4972.8	5468.3



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	855.6	1071.1	1288.9	1553.2	1852.3	2110.0	2280.6	2647.4	3541.3	4801.7	5335.2
-25°	831.6	1043.2	1259.6	1517.3	1810.9	2095.8	2297.9	2406.7	3120.8	4221.9	5123.8
-27.5°	803.9	1010.0	1226.3	1469.4	1756.9	2053.7	2269.9	2413.4	2779.0	3558.9	4802.8
-30°	771.2	971.6	1183.1	1413.8	1690.8	1974.1	2221.9	2404.7	2511.5	3106.4	4106.5
-32.5°	734.1	927.4	1134.0	1360.5	1616.2	1888.4	2150.4	2348.1	2494.5	2689.3	3451.0
-35°	698.7	882.3	1079.5	1300.4	1536.2	1791.9	2037.7	2271.0	2454.6	2580.1	2889.7
-37.5°	667.5	833.1	1022.5	1235.2	1462.3	1681.1	1916.0	2156.4	2366.9	2540.4	2650.0
-40°	631.7	780.0	963.8	1164.8	1367.1	1569.1	1788.5	2018.1	2250.0	2440.5	2607.6
-42.5°	591.7	735.3	899.9	1082.8	1268.7	1459.5	1654.8	1872.3	2090.9	2308.1	2484.3
-45°	547.3	685.5	831.7	996.2	1164.7	1344.7	1529.9	1717.8	1924.5	2129.5	2322.3
-47.5°	497.3	630.0	769.4	903.8	1060.3	1225.5	1398.3	1575.6	1752.5	1940.8	2127.0
-50°	445.2	568.4	697.0	820.1	953.9	1104.2	1262.9	1427.9	1594.8	1752.8	1916.6
-52.5°	396.9	501.2	618.9	736.9	854.3	982.2	1125.6	1274.7	1429.1	1582.8	1721.4
-55°	344.7	438.5	536.4	647.7	759.9	870.6	987.0	1121.9	1253.0	1394.4	1530.6
-57.5°	305.8	374.7	460.5	553.0	658.2	765.1	868.2	969.7	1084.1	1202.4	1322.5
-60°	274.6	323.1	388.6	467.5	550.3	649.0	750.3	844.1	930.4	1018.5	1127.3
-62.5°	245.9	285.7	331.2	386.1	458.1	531.4	618.6	708.1	792.0	872.6	953.5
-65°	231.9	252.8	287.3	328.2	369.4	431.9	498.7	567.1	644.0	718.0	793.3
-67.5°	217.2	237.0	256.0	278.4	315.5	352.0	388.1	448.3	508.6	562.9	617.7
-70°	205.9	221.4	238.6	255.3	272.0	293.5	326.3	360.0	392.6	428.7	474.6
-72.5°	194.8	208.7	222.5	236.0	251.2	266.6	282.3	298.8	322.7	350.5	375.6
-75°	183.4	195.6	207.7	219.8	232.4	245.1	258.4	273.0	287.8	302.7	316.1
-77.5°	171.9	183.3	193.6	203.8	214.5	225.9	237.7	249.7	261.8	274.2	284.7
-80°	160.1	170.8	179.9	188.8	198.0	207.4	217.5	227.8	238.0	248.5	257.5
-82.5°	148.0	157.1	165.3	173.3	181.2	189.1	197.8	206.7	215.7	224.6	232.2
-85°	136.3	143.3	150.3	157.3	164.3	171.1	179.0	186.8	194.2	201.7	208.3
-87.5°	127.6	134.1	140.0	145.8	151.4	156.9	163.7	170.4	176.2	182.0	187.5
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.7	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	178.5	181.8	185.1	187.9	190.6	194.5	198.3	203.8	209.2	215.8	222.4
87.5°	2.0	2.0	2.1	1.6	1.1	1.1	1.1	1.1	1.1	1.6	2.2
85°	2.2	2.2	2.2	2.5	2.9	3.0	3.0	3.1	3.1	3.2	3.3
82.5°	2.7	2.8	2.9	3.1	3.3	3.3	3.3	3.3	3.3	3.8	4.3
80°	3.6	3.7	3.8	3.9	4.0	3.7	3.3	3.3	3.3	3.8	4.4
77.5°	4.5	4.5	4.4	4.2	3.9	3.6	3.3	3.3	3.3	3.4	3.4
75°	5.4	5.5	5.9	6.2	6.7	6.8	6.3	6.5	6.8	6.7	6.4
72.5°	12.0	12.4	12.4	13.9	15.2	15.7	16.1	17.2	18.4	20.1	22.0
70°	23.5	25.9	27.0	27.0	25.9	25.3	24.7	24.6	25.1	26.2	27.7
67.5°	33.9	34.9	34.5	34.1	32.0	29.6	26.8	25.3	26.0	27.2	28.9
65°	38.3	35.3	33.2	32.4	30.5	27.4	23.3	20.4	19.8	19.3	19.2
62.5°	34.4	29.1	26.5	25.0	22.4	19.8	16.0	13.0	11.9	11.2	11.0
60°	30.1	23.3	19.2	17.2	14.4	11.2	9.2	7.1	6.4	5.9	6.1
57.5°	26.1	19.3	14.5	13.6	11.1	8.8	7.0	5.2	4.7	4.4	4.6
55°	26.9	23.5	19.6	17.6	14.7	13.3	11.7	10.6	9.7	9.9	10.5
52.5°	38.0	40.9	36.0	34.7	43.1	43.2	35.7	47.3	54.4	59.8	61.3
50°	98.1	97.4	129.5	124.1	153.6	177.8	178.8	193.5	221.5	240.7	251.1
47.5°	260.5	289.7	327.1	366.2	396.9	435.2	473.9	502.8	509.9	510.7	515.8
45°	490.3	532.1	588.3	629.5	687.5	723.2	752.9	779.8	841.8	899.0	965.6
42.5°	684.8	730.4	788.6	872.3	933.4	1096.4	1345.9	1407.3	1416.1	1466.8	1540.7
40°	838.2	898.0	1027.4	1210.8	1601.6	1952.0	2015.2	2067.9	2091.0	2062.9	2113.1
37.5°	1024.0	1164.2	1455.4	1956.9	2142.2	2237.6	2304.7	2345.1	2394.0	2439.3	2463.9
35°	1332.5	1723.1	1978.3	2246.1	2367.3	2415.6	2465.0	2514.6	2553.1	2603.2	2643.3
32.5°	1965.6	2400.4	2426.1	2492.3	2555.4	2618.3	2664.3	2711.7	2752.7	2817.6	2953.8
30°	2603.4	2698.2	2721.4	2727.4	2785.0	2860.4	2900.3	2995.8	3124.8	3272.7	3587.4
27.5°	2942.9	3008.1	3021.7	3028.2	3055.1	3144.2	3309.5	3439.9	3749.3	4125.0	4933.7
25°	3356.3	3402.7	3451.9	3449.8	3490.6	3648.6	3971.7	4247.0	5292.5	6270.9	8378.8
22.5°	3750.8	3891.1	3961.0	4054.7	4193.1	4480.5	5047.5	6640.1	9303.0	12701.2	16931.7
20°	4024.9	4213.7	4401.8	4663.2	4997.8	5594.2	7365.5	12131.3	17822.7	26081.3	33008.1
17.5°	4301.4	4514.7	4847.4	5250.7	5812.6	7815.2	13008.1	21100.3	32788.3	47449.9	60313.9
15°	4662.0	4915.1	5360.6	5936.4	7506.4	11781.2	20443.9	35168.4	52936.3	73546.4	95166.1
12.5°	4907.5	5256.3	5785.9	6529.5	9106.6	17112.9	31060.6	51246.2	75700.9	101670.1	136132.4
10°	5089.0	5506.0	6225.4	7767.1	12440.0	22998.0	39758.6	64950.0	98476.6	138055.6	177456.3
7.5°	5241.3	5803.0	6706.1	8648.8	15316.0	28627.0	49991.7	80610.7	120278.3	167969.0	213788.7
5°	5378.3	6122.9	7168.7	9599.2	17893.0	32702.6	56796.9	92306.3	138241.8	190328.1	240916.2
2.5°	5559.3	6422.3	7468.8	9860.7	18924.5	34960.9	62189.1	101750.4	151067.6	205858.8	260898.8
0°	5810.9	6617.1	7652.2	10028.0	18603.6	36375.9	65493.9	106490.0	156688.2	212381.9	270109.7
-2.5°	6008.7	6729.3	7759.1	9893.2	18446.7	35710.4	64002.4	103727.2	151185.5	205001.7	262585.9
-5°	6136.4	6809.7	7806.0	9943.6	18051.0	33167.0	59597.2	96488.3	139979.7	188559.1	241807.2
-7.5°	6211.2	6839.2	7757.3	9626.5	16253.0	29702.1	51756.2	83145.5	122160.8	167113.5	211119.5
-10°	6256.0	6820.2	7655.7	9178.0	13671.1	24138.3	40860.3	67463.6	101268.1	137490.5	173485.7
-12.5°	6272.9	6779.9	7512.5	8535.6	10961.1	18897.3	32526.4	51406.7	76500.1	106213.5	137931.3
-15°	6239.9	6721.4	7374.1	8259.9	9873.5	14166.4	22696.4	35537.2	54240.9	76927.1	99911.3
-17.5°	6117.4	6660.9	7169.1	7849.2	8799.0	10823.4	16015.0	24257.0	35663.0	50658.4	63919.0
-20°	5955.0	6546.9	6982.0	7583.0	8328.8	9255.4	10920.4	15950.4	22346.1	31027.4	39682.3



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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°	5810.5	6352.0	6899.0	7311.6	7895.7	8504.7	9256.6	10695.5	13909.2	18243.4	23730.0
-25°	5677.1	6172.7	6734.1	7180.3	7509.8	7940.3	8411.3	8915.4	10007.1	11030.6	13677.5
-27.5°	5489.2	6002.7	6489.5	6965.9	7283.3	7478.7	7799.7	8113.0	8570.2	8976.7	9754.1
-30°	5270.8	5773.2	6236.4	6669.1	6994.4	7199.9	7359.1	7574.5	7816.5	8062.6	8396.6
-32.5°	4492.3	5503.5	5934.8	6325.4	6660.9	6902.5	7071.1	7212.6	7352.2	7509.8	7685.8
-35°	3639.4	4638.2	5611.3	5915.9	6233.0	6552.9	6802.7	6936.3	7057.8	7168.2	7275.9
-37.5°	2959.0	3663.7	4537.1	5367.1	5752.4	6075.5	6375.8	6609.1	6779.4	6882.9	6979.8
-40°	2692.7	2871.2	3542.9	4226.5	4883.9	5480.7	5786.1	6130.9	6411.1	6563.1	6668.5
-42.5°	2629.0	2711.0	2773.7	3206.8	3729.7	4232.9	4789.8	5342.6	5776.4	6065.6	6280.6
-45°	2489.6	2607.6	2701.1	2739.7	2763.4	3130.3	3561.5	3983.7	4470.8	4974.0	5430.9
-47.5°	2292.0	2445.4	2551.1	2633.8	2683.2	2698.7	2729.1	2823.7	3177.4	3549.4	3903.5
-50°	2071.6	2212.2	2338.9	2453.9	2522.4	2577.9	2631.0	2681.8	2725.0	2779.4	2828.5
-52.5°	1849.6	1978.6	2092.4	2193.4	2284.1	2371.6	2455.9	2518.8	2580.2	2646.2	2699.9
-55°	1652.0	1756.5	1851.9	1940.5	2022.3	2096.3	2172.5	2253.8	2337.9	2420.1	2484.0
-57.5°	1440.6	1540.6	1631.0	1706.1	1771.9	1827.1	1897.0	1973.2	2052.4	2125.6	2181.3
-60°	1227.5	1315.9	1398.6	1471.3	1533.8	1585.2	1649.8	1714.3	1784.9	1847.6	1897.1
-62.5°	1025.1	1099.6	1169.8	1233.4	1290.2	1342.4	1399.7	1457.3	1523.6	1582.0	1629.3
-65°	856.9	914.7	962.7	1007.8	1042.9	1088.0	1143.5	1196.6	1254.4	1305.0	1347.1
-67.5°	674.7	727.9	772.0	811.4	842.3	874.5	915.6	957.9	1002.7	1042.9	1078.3
-70°	515.5	551.3	579.9	609.3	641.0	671.8	704.6	740.8	778.4	811.6	840.7
-72.5°	397.7	415.4	432.1	456.0	477.3	498.7	519.5	545.4	573.3	598.5	621.2
-75°	328.5	339.5	352.3	363.6	373.5	384.9	396.4	413.2	431.5	448.9	465.1
-77.5°	294.8	302.7	309.1	314.4	319.0	325.9	333.3	345.8	359.3	373.9	388.5
-80°	266.1	272.2	277.6	282.2	286.4	292.1	298.0	309.0	320.6	332.9	345.2
-82.5°	239.6	244.4	248.8	253.0	257.1	261.9	266.7	276.4	286.4	296.7	306.9
-85°	214.7	218.8	222.5	226.0	229.4	233.6	237.7	246.0	254.3	263.0	271.7
-87.5°	192.9	196.6	200.2	203.3	206.4	210.1	213.7	220.9	228.2	235.5	242.9
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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°	223.0	223.5	224.0	224.5	224.0	223.5	223.0	222.4	215.8	209.2	203.8
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.6	1.1	1.1
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1
82.5°	3.8	3.3	3.8	4.4	3.8	3.3	3.8	4.3	3.8	3.3	3.3
80°	3.9	3.3	3.8	4.4	3.8	3.3	3.9	4.4	3.8	3.3	3.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.3	3.3
75°	5.5	4.4	3.9	3.3	3.9	4.4	5.5	6.4	6.7	6.8	6.5
72.5°	22.5	22.5	22.9	23.0	22.9	22.5	22.5	22.0	20.1	18.4	17.2
70°	28.6	29.3	29.5	29.6	29.5	29.3	28.6	27.7	26.2	25.1	24.6
67.5°	29.2	28.6	28.0	27.4	28.0	28.6	29.2	28.9	27.2	26.0	25.3
65°	18.2	17.0	15.1	13.1	15.1	17.0	18.2	19.2	19.3	19.8	20.4
62.5°	10.6	10.2	10.0	9.9	10.0	10.2	10.6	11.0	11.2	11.9	13.0
60°	6.3	6.6	6.6	6.6	6.6	6.6	6.3	6.1	5.9	6.4	7.1
57.5°	4.8	5.4	6.0	6.6	6.0	5.4	4.8	4.6	4.4	4.7	5.2
55°	11.2	12.4	13.0	13.1	13.0	12.4	11.2	10.5	9.9	9.7	10.6
52.5°	59.2	56.2	53.6	51.5	53.6	56.2	59.2	61.3	59.8	54.4	47.3
50°	255.7	262.3	265.4	265.1	265.4	262.3	255.7	251.1	240.7	221.5	193.5
47.5°	526.6	530.3	527.3	519.2	527.3	530.3	526.6	515.8	510.7	509.9	502.8
45°	1047.0	1001.6	921.1	850.0	921.1	1001.6	1047.0	965.6	899.0	841.8	779.8
42.5°	1638.9	1693.2	1733.9	1752.6	1733.9	1693.2	1638.9	1540.7	1466.8	1416.1	1407.3
40°	2056.7	1998.7	1987.0	1995.7	1987.0	1998.7	2056.7	2113.1	2062.9	2091.0	2067.9
37.5°	2470.1	2522.8	2561.9	2498.5	2561.9	2522.8	2470.1	2463.9	2439.3	2394.0	2345.1
35°	2736.4	2923.9	3143.8	3210.5	3143.8	2923.9	2736.4	2643.3	2603.2	2553.1	2514.6
32.5°	3181.9	3379.7	3465.5	3486.5	3465.5	3379.7	3181.9	2953.8	2817.6	2752.7	2711.7
30°	3890.6	4088.3	4123.8	4152.5	4123.8	4088.3	3890.6	3587.4	3272.7	3124.8	2995.8
27.5°	5470.5	5912.6	6017.5	6091.3	6017.5	5912.6	5470.5	4933.7	4125.0	3749.3	3439.9
25°	10042.9	11193.1	11944.4	11871.5	11944.4	11193.1	10042.9	8378.8	6270.9	5292.5	4247.0
22.5°	21170.5	23428.3	24633.1	24611.7	24633.1	23428.3	21170.5	16931.7	12701.2	9303.0	6640.1
20°	42876.5	49557.2	53173.3	52761.4	53173.3	49557.2	42876.5	33008.1	26081.3	17822.7	12131.3
17.5°	74763.0	87666.3	96680.9	97050.2	96680.9	87666.3	74763.0	60313.9	47449.9	32788.3	21100.3
15°	115605.8	134751.2	148266.6	148264.9	148266.6	134751.2	115605.8	95166.1	73546.4	52936.3	35168.4
12.5°	165314.0	188198.9	203662.7	205981.8	203662.7	188198.9	165314.0	136132.4	101670.1	75700.9	51246.2
10°	213020.6	238942.4	262320.3	268756.9	262320.3	238942.4	213020.6	177456.3	138055.6	98476.6	64950.0
7.5°	253400.5	294177.5	315472.4	322179.4	315472.4	294177.5	253400.5	213788.7	167969.0	120278.3	80610.7
5°	293035.8	328331.8	346210.6	351386.6	346210.6	328331.8	293035.8	240916.2	190328.1	138241.8	92306.3
2.5°	313885.3	346283.4	371412.5	385985.9	371412.5	346283.4	313885.3	260898.8	205858.8	151067.6	101750.4
0°	321729.8	352510.5	386210.9	409164.8	386210.9	352510.5	321729.8	270109.7	212381.9	156688.2	106490.0
-2.5°	313883.5	343667.7	368502.8	380593.9	368502.8	343667.7	313883.5	262585.9	205001.7	151185.5	103727.2
-5°	290099.2	325132.0	343213.9	347791.7	343213.9	325132.0	290099.2	241807.2	188559.1	139979.7	96488.3
-7.5°	252112.3	285805.0	307974.5	312967.9	307974.5	285805.0	252112.3	211119.5	167113.5	122160.8	83145.5
-10°	209821.7	238601.0	253557.2	257255.6	253557.2	238601.0	209821.7	173485.7	137490.5	101268.1	67463.6
-12.5°	163036.1	184141.5	199408.7	201480.9	199408.7	184141.5	163036.1	137931.3	106213.5	76500.1	51406.7
-15°	121355.2	135313.3	147621.7	149036.0	147621.7	135313.3	121355.2	99911.3	76927.1	54240.9	35537.2
-17.5°	81301.7	92857.8	99744.7	101731.7	99744.7	92857.8	81301.7	63919.0	50658.4	35663.0	24257.0
-20°	48713.1	56982.4	61572.0	61744.5	61572.0	56982.4	48713.1	39682.3	31027.4	22346.1	15950.4



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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°	28261.0	32862.1	35290.4	35243.3	35290.4	32862.1	28261.0	23730.0	18243.4	13909.2	10695.5
-25°	16298.7	18313.2	19117.2	19145.8	19117.2	18313.2	16298.7	13677.5	11030.6	10007.1	8915.4
-27.5°	10378.0	10840.5	11025.8	11055.5	11025.8	10840.5	10378.0	9754.1	8976.7	8570.2	8113.0
-30°	8701.1	8971.6	9096.0	9130.9	9096.0	8971.6	8701.1	8396.6	8062.6	7816.5	7574.5
-32.5°	7851.1	8000.1	8100.7	8086.0	8100.7	8000.1	7851.1	7685.8	7509.8	7352.2	7212.6
-35°	7381.1	7473.4	7529.8	7556.9	7529.8	7473.4	7381.1	7275.9	7168.2	7057.8	6936.3
-37.5°	7076.4	7158.9	7212.3	7228.3	7212.3	7158.9	7076.4	6979.8	6882.9	6779.4	6609.1
-40°	6759.2	6827.9	6871.8	6887.6	6871.8	6827.9	6759.2	6668.5	6563.1	6411.1	6130.9
-42.5°	6417.0	6490.7	6525.9	6526.2	6525.9	6490.7	6417.0	6280.6	6065.6	5776.4	5342.6
-45°	5805.6	6032.6	6146.3	6151.6	6146.3	6032.6	5805.6	5430.9	4974.0	4470.8	3983.7
-47.5°	4225.6	4449.9	4630.2	4763.7	4630.2	4449.9	4225.6	3903.5	3549.4	3177.4	2823.7
-50°	2871.4	2886.1	2887.1	2874.2	2887.1	2886.1	2871.4	2828.5	2779.4	2725.0	2681.8
-52.5°	2741.8	2757.1	2768.3	2774.6	2768.3	2757.1	2741.8	2699.9	2646.2	2580.2	2518.8
-55°	2531.3	2550.6	2558.6	2555.5	2558.6	2550.6	2531.3	2484.0	2420.1	2337.9	2253.8
-57.5°	2218.6	2231.4	2237.4	2235.6	2237.4	2231.4	2218.6	2181.3	2125.6	2052.4	1973.2
-60°	1927.5	1936.9	1942.4	1942.1	1942.4	1936.9	1927.5	1897.1	1847.6	1784.9	1714.3
-62.5°	1656.0	1664.5	1670.7	1671.5	1670.7	1664.5	1656.0	1629.3	1582.0	1523.6	1457.3
-65°	1368.3	1374.7	1378.8	1378.0	1378.8	1374.7	1368.3	1347.1	1305.0	1254.4	1196.6
-67.5°	1093.8	1098.3	1102.0	1101.9	1102.0	1098.3	1093.8	1078.3	1042.9	1002.7	957.9
-70°	850.0	850.4	852.2	851.1	852.2	850.4	850.0	840.7	811.6	778.4	740.8
-72.5°	626.5	625.9	625.6	623.3	625.6	625.9	626.5	621.2	598.5	573.3	545.4
-75°	466.7	465.1	463.5	461.1	463.5	465.1	466.7	465.1	448.9	431.5	413.2
-77.5°	390.2	390.2	387.6	384.5	387.6	390.2	390.2	388.5	373.9	359.3	345.8
-80°	345.9	345.6	344.3	342.8	344.3	345.6	345.9	345.2	332.9	320.6	309.0
-82.5°	308.0	308.5	308.3	307.8	308.3	308.5	308.0	306.9	296.7	286.4	276.4
-85°	272.7	273.6	273.2	272.7	273.2	273.6	272.7	271.7	263.0	254.3	246.0
-87.5°	243.6	244.2	244.3	244.3	244.3	244.2	243.6	242.9	235.5	228.2	220.9
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	198.3	194.5	190.6	187.9	185.1	181.8	178.5	173.6	168.7	163.8	158.8
87.5°	1.1	1.1	1.1	1.6	2.1	2.0	2.0	2.0	1.9	2.1	2.2
85°	3.0	3.0	2.9	2.5	2.2	2.2	2.2	2.5	2.8	2.7	2.7
82.5°	3.3	3.3	3.3	3.1	2.9	2.8	2.7	3.0	3.3	3.3	3.3
80°	3.3	3.7	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.4
77.5°	3.3	3.6	3.9	4.2	4.4	4.5	4.5	4.4	4.3	4.5	4.5
75°	6.3	6.8	6.7	6.2	5.9	5.5	5.4	5.2	5.1	5.3	5.5
72.5°	16.1	15.7	15.2	13.9	12.4	12.4	12.0	10.9	9.1	6.8	5.5
70°	24.7	25.3	25.9	27.0	27.0	25.9	23.5	20.7	17.8	14.7	11.3
67.5°	26.8	29.6	32.0	34.1	34.5	34.9	33.9	32.3	31.8	29.0	20.9
65°	23.3	27.4	30.5	32.4	33.2	35.3	38.3	38.8	42.0	42.5	34.8
62.5°	16.0	19.8	22.4	25.0	26.5	29.1	34.4	40.0	48.1	51.5	44.5
60°	9.2	11.2	14.4	17.2	19.2	23.3	30.1	38.9	49.6	50.8	49.1
57.5°	7.0	8.8	11.1	13.6	14.5	19.3	26.1	36.6	47.4	49.4	46.4
55°	11.7	13.3	14.7	17.6	19.6	23.5	26.9	35.5	46.0	50.3	50.6
52.5°	35.7	43.2	43.1	34.7	36.0	40.9	38.0	44.9	51.7	57.5	59.7
50°	178.8	177.8	153.6	124.1	129.5	97.4	98.1	86.6	76.9	79.7	76.6
47.5°	473.9	435.2	396.9	366.2	327.1	289.7	260.5	205.7	189.2	134.1	132.8
45°	752.9	723.2	687.5	629.5	588.3	532.1	490.3	435.7	370.5	315.3	224.6
42.5°	1345.9	1096.4	933.4	872.3	788.6	730.4	684.8	637.6	589.1	519.8	435.5
40°	2015.2	1952.0	1601.6	1210.8	1027.4	898.0	838.2	797.0	772.0	718.7	638.4
37.5°	2304.7	2237.6	2142.2	1956.9	1455.4	1164.2	1024.0	943.9	937.6	888.3	817.1
35°	2465.0	2415.6	2367.3	2246.1	1978.3	1723.1	1332.5	1145.5	1055.0	1033.7	975.3
32.5°	2664.3	2618.3	2555.4	2492.3	2426.1	2400.4	1965.6	1508.2	1201.8	1141.9	1090.2
30°	2900.3	2860.4	2785.0	2727.4	2721.4	2698.2	2603.4	2046.1	1550.5	1235.8	1200.1
27.5°	3309.5	3144.2	3055.1	3028.2	3021.7	3008.1	2942.9	2680.4	1963.9	1498.1	1293.9
25°	3971.7	3648.6	3490.6	3449.8	3451.9	3402.7	3356.3	3139.4	2605.4	1815.5	1391.0
22.5°	5047.5	4480.5	4193.1	4054.7	3961.0	3891.1	3750.8	3548.2	3271.0	2270.6	1662.2
20°	7365.5	5594.2	4997.8	4663.2	4401.8	4213.7	4024.9	3838.6	3526.7	2823.3	1948.3
17.5°	13008.1	7815.2	5812.6	5250.7	4847.4	4514.7	4301.4	4063.2	3756.1	3261.1	2189.7
15°	20443.9	11781.2	7506.4	5936.4	5360.6	4915.1	4662.0	4358.0	4033.7	3533.0	2543.6
12.5°	31060.6	17112.9	9106.6	6529.5	5785.9	5256.3	4907.5	4657.7	4307.2	3816.7	2972.7
10°	39758.6	22998.0	12440.0	7767.1	6225.4	5506.0	5089.0	4819.6	4501.9	4076.3	3373.6
7.5°	49991.7	28627.0	15316.0	8648.8	6706.1	5803.0	5241.3	4933.8	4630.5	4178.2	3592.9
5°	56796.9	32702.6	17893.0	9599.2	7168.7	6122.9	5378.3	5015.9	4694.7	4210.4	3740.5
2.5°	62189.1	34960.9	18924.5	9860.7	7468.8	6422.3	5559.3	5118.1	4740.4	4249.4	3853.0
0°	65493.9	36375.9	18603.6	10028.0	7652.2	6617.1	5810.9	5231.4	4760.4	4274.1	3913.7
-2.5°	64002.4	35710.4	18446.7	9893.2	7759.1	6729.3	6008.7	5485.8	4871.0	4310.0	3939.8
-5°	59597.2	33167.0	18051.0	9943.6	7806.0	6809.7	6136.4	5647.4	4973.0	4352.8	3915.5
-7.5°	51756.2	29702.1	16253.0	9626.5	7757.3	6839.2	6211.2	5728.7	5101.0	4487.0	3887.6
-10°	40860.3	24138.3	13671.1	9178.0	7655.7	6820.2	6256.0	5735.4	5149.9	4584.0	3793.3
-12.5°	32526.4	18897.3	10961.1	8535.6	7512.5	6779.9	6272.9	5693.9	5168.3	4673.4	3679.9
-15°	22696.4	14166.4	9873.5	8259.9	7374.1	6721.4	6239.9	5615.9	5149.0	4713.3	3469.7
-17.5°	16015.0	10823.4	8799.0	7849.2	7169.1	6660.9	6117.4	5556.5	5089.6	4499.0	3145.8
-20°	10920.4	9255.4	8328.8	7583.0	6982.0	6546.9	5955.0	5468.3	4972.8	4050.1	2908.7



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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°	9256.6	8504.7	7895.7	7311.6	6899.0	6352.0	5810.5	5335.2	4801.7	3541.3	2647.4
-25°	8411.3	7940.3	7509.8	7180.3	6734.1	6172.7	5677.1	5123.8	4221.9	3120.8	2406.7
-27.5°	7799.7	7478.7	7283.3	6965.9	6489.5	6002.7	5489.2	4802.8	3558.9	2779.0	2413.4
-30°	7359.1	7199.9	6994.4	6669.1	6236.4	5773.2	5270.8	4106.5	3106.4	2511.5	2404.7
-32.5°	7071.1	6902.5	6660.9	6325.4	5934.8	5503.5	4492.3	3451.0	2689.3	2494.5	2348.1
-35°	6802.7	6552.9	6233.0	5915.9	5611.3	4638.2	3639.4	2889.7	2580.1	2454.6	2271.0
-37.5°	6375.8	6075.5	5752.4	5367.1	4537.1	3663.7	2959.0	2650.0	2540.4	2366.9	2156.4
-40°	5786.1	5480.7	4883.9	4226.5	3542.9	2871.2	2692.7	2607.6	2440.5	2250.0	2018.1
-42.5°	4789.8	4232.9	3729.7	3206.8	2773.7	2711.0	2629.0	2484.3	2308.1	2090.9	1872.3
-45°	3561.5	3130.3	2763.4	2739.7	2701.1	2607.6	2489.6	2322.3	2129.5	1924.5	1717.8
-47.5°	2729.1	2698.7	2683.2	2633.8	2551.1	2445.4	2292.0	2127.0	1940.8	1752.5	1575.6
-50°	2631.0	2577.9	2522.4	2453.9	2338.9	2212.2	2071.6	1916.6	1752.8	1594.8	1427.9
-52.5°	2455.9	2371.6	2284.1	2193.4	2092.4	1978.6	1849.6	1721.4	1582.8	1429.1	1274.7
-55°	2172.5	2096.3	2022.3	1940.5	1851.9	1756.5	1652.0	1530.6	1394.4	1253.0	1121.9
-57.5°	1897.0	1827.1	1771.9	1706.1	1631.0	1540.6	1440.6	1322.5	1202.4	1084.1	969.7
-60°	1649.8	1585.2	1533.8	1471.3	1398.6	1315.9	1227.5	1127.3	1018.5	930.4	844.1
-62.5°	1399.7	1342.4	1290.2	1233.4	1169.8	1099.6	1025.1	953.5	872.6	792.0	708.1
-65°	1143.5	1088.0	1042.9	1007.8	962.7	914.7	856.9	793.3	718.0	644.0	567.1
-67.5°	915.6	874.5	842.3	811.4	772.0	727.9	674.7	617.7	562.9	508.6	448.3
-70°	704.6	671.8	641.0	609.3	579.9	551.3	515.5	474.6	428.7	392.6	360.0
-72.5°	519.5	498.7	477.3	456.0	432.1	415.4	397.7	375.6	350.5	322.7	298.8
-75°	396.4	384.9	373.5	363.6	352.3	339.5	328.5	316.1	302.7	287.8	273.0
-77.5°	333.3	325.9	319.0	314.4	309.1	302.7	294.8	284.7	274.2	261.8	249.7
-80°	298.0	292.1	286.4	282.2	277.6	272.2	266.1	257.5	248.5	238.0	227.8
-82.5°	266.7	261.9	257.1	253.0	248.8	244.4	239.6	232.2	224.6	215.7	206.7
-85°	237.7	233.6	229.4	226.0	222.5	218.8	214.7	208.3	201.7	194.2	186.8
-87.5°	213.7	210.1	206.4	203.3	200.2	196.6	192.9	187.5	182.0	176.2	170.4
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.2





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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°	152.3	145.7	140.8	135.8	130.4	124.9	118.9	112.8	105.2	97.5	88.2
87.5°	2.2	2.2	2.5	2.8	2.8	2.7	2.7	2.7	2.8	3.0	3.2
85°	2.6	2.5	2.9	3.3	3.3	3.3	3.2	3.1	3.5	3.7	3.7
82.5°	3.3	3.2	3.2	3.3	3.7	3.8	3.7	3.6	4.0	4.4	4.2
80°	3.7	3.9	3.8	3.7	4.0	4.4	4.2	4.1	4.5	4.8	4.7
77.5°	4.5	4.6	4.4	4.3	4.3	4.5	4.6	4.6	4.9	5.2	5.3
75°	5.5	5.1	4.6	4.6	4.7	4.6	4.9	5.2	5.6	5.7	5.8
72.5°	5.5	5.5	5.0	4.9	5.6	5.8	5.8	5.8	6.4	6.6	6.5
70°	8.3	6.5	6.1	6.3	6.7	7.1	7.2	7.3	7.2	7.6	7.6
67.5°	13.2	10.9	9.1	8.0	8.0	8.5	8.7	9.1	9.1	8.7	8.8
65°	25.5	18.4	12.9	11.4	10.1	10.0	10.3	11.1	11.2	11.0	10.1
62.5°	36.6	28.4	21.7	16.3	13.6	13.6	12.1	13.4	13.4	13.4	12.2
60°	46.5	38.0	31.4	25.8	20.8	18.3	17.3	16.0	16.3	16.0	14.7
57.5°	46.9	46.2	43.2	36.6	31.9	26.7	23.9	21.7	19.7	19.4	17.4
55°	47.6	48.2	54.0	50.1	45.3	38.3	33.4	29.4	24.7	23.4	20.3
52.5°	56.9	58.5	63.1	66.2	62.6	52.9	47.8	37.7	34.0	27.7	24.3
50°	73.0	78.7	79.3	84.9	82.1	75.7	63.3	53.1	44.1	33.9	28.6
47.5°	113.9	119.1	109.0	111.7	106.6	101.9	87.0	71.5	55.1	44.1	33.2
45°	216.6	186.4	168.9	154.3	141.1	135.6	115.6	91.9	73.9	54.8	37.9
42.5°	351.1	305.8	270.4	205.3	197.8	175.1	150.1	123.2	94.2	66.0	45.6
40°	540.8	454.1	394.1	324.8	267.8	219.9	194.4	158.4	115.9	80.2	55.7
37.5°	719.4	608.7	532.3	448.2	355.9	293.2	243.2	196.1	141.7	100.0	66.0
35°	863.0	753.0	649.7	562.8	469.2	366.7	295.7	238.3	174.9	120.7	76.5
32.5°	993.3	876.4	759.2	661.3	559.7	438.3	356.8	280.2	208.3	142.1	87.5
30°	1108.7	996.9	863.4	742.2	634.2	513.3	414.7	319.4	241.8	164.2	100.3
27.5°	1234.6	1121.8	969.2	830.1	699.8	578.4	460.9	355.8	275.2	186.5	117.0
25°	1353.0	1238.3	1087.0	928.7	766.1	630.4	503.9	389.8	306.5	209.1	132.9
22.5°	1432.4	1336.4	1195.2	1033.1	839.2	681.1	546.0	426.7	327.7	229.8	147.7
20°	1496.4	1422.7	1290.8	1112.0	918.6	741.1	588.1	456.5	347.3	248.5	161.5
17.5°	1587.6	1492.3	1358.7	1178.4	991.5	801.5	628.7	484.5	365.4	265.3	174.3
15°	1811.9	1553.3	1424.7	1240.8	1047.8	853.1	668.2	511.0	381.9	280.1	185.8
12.5°	2044.5	1612.6	1488.5	1294.9	1089.2	897.2	706.1	535.8	396.6	295.2	196.1
10°	2262.9	1664.2	1547.9	1344.2	1125.3	934.2	741.9	562.8	418.6	310.6	205.3
7.5°	2447.5	1711.2	1603.8	1388.8	1157.9	967.7	777.9	596.6	440.7	324.9	213.4
5°	2603.4	1754.5	1658.0	1443.8	1196.5	998.6	809.8	627.9	461.5	337.7	220.5
2.5°	2709.7	1793.7	1706.8	1495.0	1230.2	1024.3	837.0	656.3	480.4	348.9	226.4
0°	2780.0	1829.3	1748.2	1539.0	1258.6	1045.0	859.9	681.3	497.3	358.2	231.1
-2.5°	2802.1	1866.4	1782.2	1576.3	1303.9	1072.6	876.6	693.0	508.7	368.7	238.9
-5°	2786.3	1900.7	1809.9	1606.0	1341.8	1094.7	889.0	700.9	517.7	377.1	245.5
-7.5°	2738.8	1939.2	1833.0	1628.1	1370.9	1110.6	896.8	705.2	524.1	383.3	250.6
-10°	2657.6	1977.8	1851.4	1636.4	1375.4	1118.9	900.4	705.7	528.0	387.1	254.1
-12.5°	2555.5	2013.1	1862.9	1634.9	1370.0	1120.6	903.5	704.2	529.1	388.6	256.0
-15°	2424.9	2057.8	1877.6	1624.8	1357.9	1117.1	900.7	698.7	525.8	386.3	256.2
-17.5°	2253.6	2099.4	1887.0	1611.7	1341.2	1108.6	891.6	688.4	519.6	380.0	253.9
-20°	2249.3	2117.4	1881.9	1586.6	1317.4	1093.1	876.1	673.0	510.4	371.5	249.6



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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°	2280.6	2110.0	1852.3	1553.2	1288.9	1071.1	855.6	652.8	498.3	360.7	243.7
-25°	2297.9	2095.8	1810.9	1517.3	1259.6	1043.2	831.6	631.6	483.1	347.7	236.4
-27.5°	2269.9	2053.7	1756.9	1469.4	1226.3	1010.0	803.9	616.5	469.3	332.5	227.5
-30°	2221.9	1974.1	1690.8	1413.8	1183.1	971.6	771.2	598.2	454.1	320.1	217.1
-32.5°	2150.4	1888.4	1616.2	1360.5	1134.0	927.4	734.1	576.3	436.4	309.6	210.3
-35°	2037.7	1791.9	1536.2	1300.4	1079.5	882.3	698.7	550.8	416.2	296.3	204.5
-37.5°	1916.0	1681.1	1462.3	1235.2	1022.5	833.1	667.5	524.0	393.6	280.3	197.9
-40°	1788.5	1569.1	1367.1	1164.8	963.8	780.0	631.7	493.7	371.6	261.5	190.0
-42.5°	1654.8	1459.5	1268.7	1082.8	899.9	735.3	591.7	458.7	345.2	247.4	180.7
-45°	1529.9	1344.7	1164.7	996.2	831.7	685.5	547.3	420.1	315.9	235.1	173.7
-47.5°	1398.3	1225.5	1060.3	903.8	769.4	630.0	497.3	384.2	284.4	221.1	170.9
-50°	1262.9	1104.2	953.9	820.1	697.0	568.4	445.2	345.4	265.6	204.6	167.5
-52.5°	1125.6	982.2	854.3	736.9	618.9	501.2	396.9	305.4	245.3	195.6	163.5
-55°	987.0	870.6	759.9	647.7	536.4	438.5	344.7	279.9	223.6	189.6	159.1
-57.5°	868.2	765.1	658.2	553.0	460.5	374.7	305.8	253.2	212.8	183.0	156.0
-60°	750.3	649.0	550.3	467.5	388.6	323.1	274.6	231.0	204.7	176.5	152.3
-62.5°	618.6	531.4	458.1	386.1	331.2	285.7	245.9	220.1	195.8	171.2	148.0
-65°	498.7	431.9	369.4	328.2	287.3	252.8	231.9	208.3	187.8	165.5	143.4
-67.5°	388.1	352.0	315.5	278.4	256.0	237.0	217.2	198.5	179.9	159.3	138.7
-70°	326.3	293.5	272.0	255.3	238.6	221.4	205.9	189.5	171.7	153.2	133.7
-72.5°	282.3	266.6	251.2	236.0	222.5	208.7	194.8	180.0	163.7	146.8	128.4
-75°	258.4	245.1	232.4	219.8	207.7	195.6	183.4	170.1	155.2	140.1	122.7
-77.5°	237.7	225.9	214.5	203.8	193.6	183.3	171.9	159.8	146.5	132.8	116.7
-80°	217.5	207.4	198.0	188.8	179.9	170.8	160.1	149.4	137.4	125.1	110.4
-82.5°	197.8	189.1	181.2	173.3	165.3	157.1	148.0	138.9	128.1	117.1	104.4
-85°	179.0	171.1	164.3	157.3	150.3	143.3	136.3	129.2	120.0	110.7	99.1
-87.5°	163.7	156.9	151.4	145.8	140.0	134.1	127.6	121.1	112.6	104.2	93.7
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	78.9	66.3	53.7	38.9	24.1	13.7	3.3
87.5°	3.6	3.7	3.7	3.6	3.5	3.6	3.3
85°	3.9	4.0	4.1	3.9	3.7	3.8	3.3
82.5°	4.2	4.4	4.4	4.2	3.9	4.1	3.3
80°	4.5	4.8	4.8	4.4	4.1	4.4	3.3
77.5°	5.1	5.2	5.2	4.7	4.3	4.6	3.3
75°	5.7	5.8	5.6	5.0	4.6	4.9	3.3
72.5°	6.4	6.5	6.2	5.3	4.8	5.2	3.3
70°	7.1	7.1	6.8	5.6	5.1	5.4	3.3
67.5°	8.5	7.8	7.5	6.3	5.4	5.7	3.3
65°	9.9	8.9	8.2	6.9	5.8	6.0	3.3
62.5°	11.4	10.3	8.9	7.6	6.1	6.3	3.3
60°	12.9	11.8	9.6	8.3	6.5	6.6	3.3
57.5°	15.4	13.4	11.1	8.9	7.2	6.8	3.3
55°	17.9	15.0	12.6	9.6	8.0	7.1	3.3
52.5°	20.5	16.8	14.1	10.3	8.8	7.4	3.3
50°	23.2	19.2	15.7	11.1	9.6	7.7	3.3
47.5°	26.1	21.8	17.4	11.9	10.4	8.0	3.3
45°	30.2	24.4	19.0	13.2	11.2	8.3	3.3
42.5°	34.3	27.2	20.7	14.5	12.1	8.6	3.3
40°	38.8	30.0	22.7	16.1	12.9	8.9	3.3
37.5°	43.8	32.9	24.9	17.9	13.8	9.2	3.3
35°	48.9	36.5	27.1	19.7	14.7	9.5	3.3
32.5°	55.2	40.5	29.3	21.6	15.6	9.8	3.3
30°	64.3	44.6	31.6	23.4	16.5	10.1	3.3
27.5°	73.3	48.6	34.4	25.2	17.4	10.4	3.3
25°	82.1	52.6	37.2	27.0	18.3	10.7	3.3
22.5°	90.7	56.6	40.0	28.8	19.2	11.0	3.3
20°	99.0	60.8	42.8	30.5	20.1	11.3	3.3
17.5°	106.8	64.7	45.4	32.2	21.0	11.6	3.3
15°	113.9	68.5	48.0	33.9	21.8	11.8	3.3
12.5°	120.5	72.0	50.5	35.6	22.6	12.1	3.3
10°	126.5	75.4	52.9	37.1	23.4	12.3	3.3
7.5°	132.0	78.5	55.2	38.6	24.2	12.5	3.3
5°	136.8	81.4	57.4	40.1	25.0	12.7	3.3
2.5°	141.0	84.1	59.4	41.4	25.7	12.9	3.3
0°	144.6	86.5	61.3	42.7	26.3	13.1	3.3
-2.5°	149.2	90.1	64.0	44.6	27.5	13.6	3.3
-5°	153.2	93.5	66.6	46.4	28.6	14.2	3.3
-7.5°	156.4	96.6	69.0	48.1	29.7	14.7	3.3
-10°	158.8	99.5	71.3	49.7	30.7	15.1	3.3
-12.5°	160.5	102.0	73.3	51.1	31.6	15.6	3.3
-15°	161.4	104.2	75.2	52.5	32.5	16.0	3.3
-17.5°	161.6	106.1	76.9	53.7	33.3	16.4	3.3
-20°	161.0	107.7	78.4	54.8	34.0	16.8	3.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	159.7	108.9	79.6	55.7	34.7	17.1	3.3
-25°	157.6	110.0	80.7	56.5	35.3	17.4	3.3
-27.5°	154.7	110.9	81.5	57.2	35.8	17.7	3.3
-30°	150.9	111.5	82.1	57.7	36.2	17.9	3.3
-32.5°	146.3	111.7	82.9	58.1	36.5	18.2	3.3
-35°	144.6	111.7	83.5	58.3	36.8	18.3	3.3
-37.5°	144.2	111.6	83.9	58.4	37.0	18.5	3.3
-40°	143.3	111.8	84.1	58.3	37.1	18.6	3.3
-42.5°	142.1	111.7	84.1	58.2	37.1	18.6	3.3
-45°	140.3	111.4	84.0	58.1	37.0	18.7	3.3
-47.5°	138.1	110.8	83.7	57.8	36.9	18.7	3.3
-50°	136.5	109.9	83.1	57.7	36.7	18.7	3.3
-52.5°	134.7	108.8	82.3	57.4	36.3	18.6	3.3
-55°	132.6	107.2	81.3	57.0	36.0	18.5	3.3
-57.5°	130.1	105.3	80.0	56.5	35.5	18.3	3.3
-60°	127.3	103.1	78.5	55.8	34.9	18.2	3.3
-62.5°	124.3	100.7	77.3	55.0	34.4	18.0	3.3
-65°	121.1	98.1	75.9	54.1	33.8	17.7	3.3
-67.5°	117.5	95.4	74.4	53.0	33.1	17.4	3.3
-70°	113.7	92.7	72.6	51.7	32.4	17.1	3.3
-72.5°	109.6	89.8	70.6	50.5	31.6	16.8	3.3
-75°	105.3	86.6	68.5	49.2	30.7	16.4	3.3
-77.5°	100.8	83.2	66.4	47.7	29.7	16.0	3.3
-80°	95.9	79.9	64.1	46.2	28.7	15.6	3.3
-82.5°	91.8	76.7	61.7	44.5	27.6	15.2	3.3
-85°	87.7	73.4	59.2	42.7	26.5	14.7	3.3
-87.5°	83.4	69.9	56.5	40.9	25.3	14.2	3.3
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3

(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

