

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: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-2S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-57-80-2S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

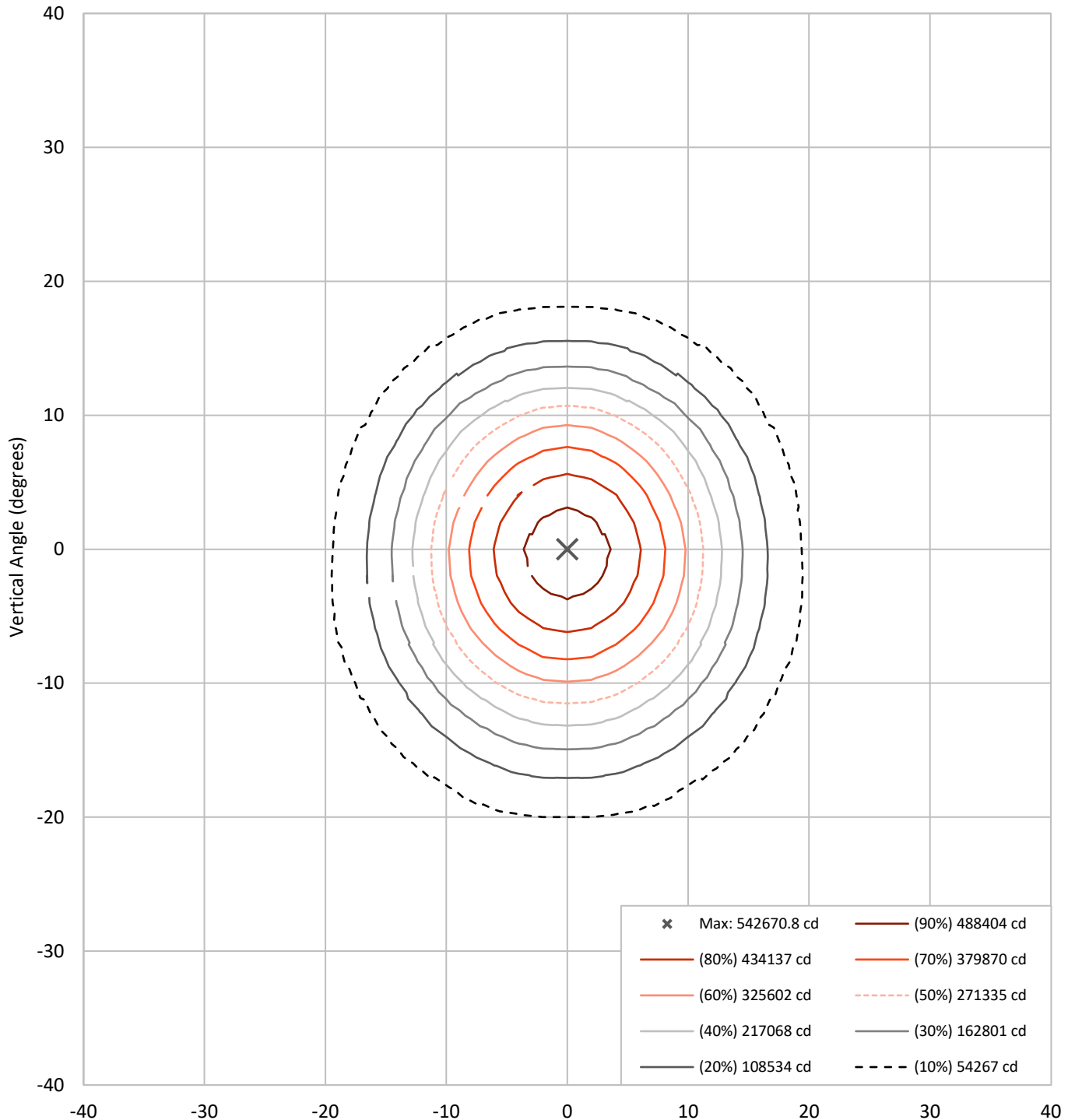
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	94850.8 lumens	Max Intensity:	542670.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	44322.2 lumens	Field Lumens:	78959.1 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 703.3  
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

REPORT NUMBER: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Iso-Candela Plot





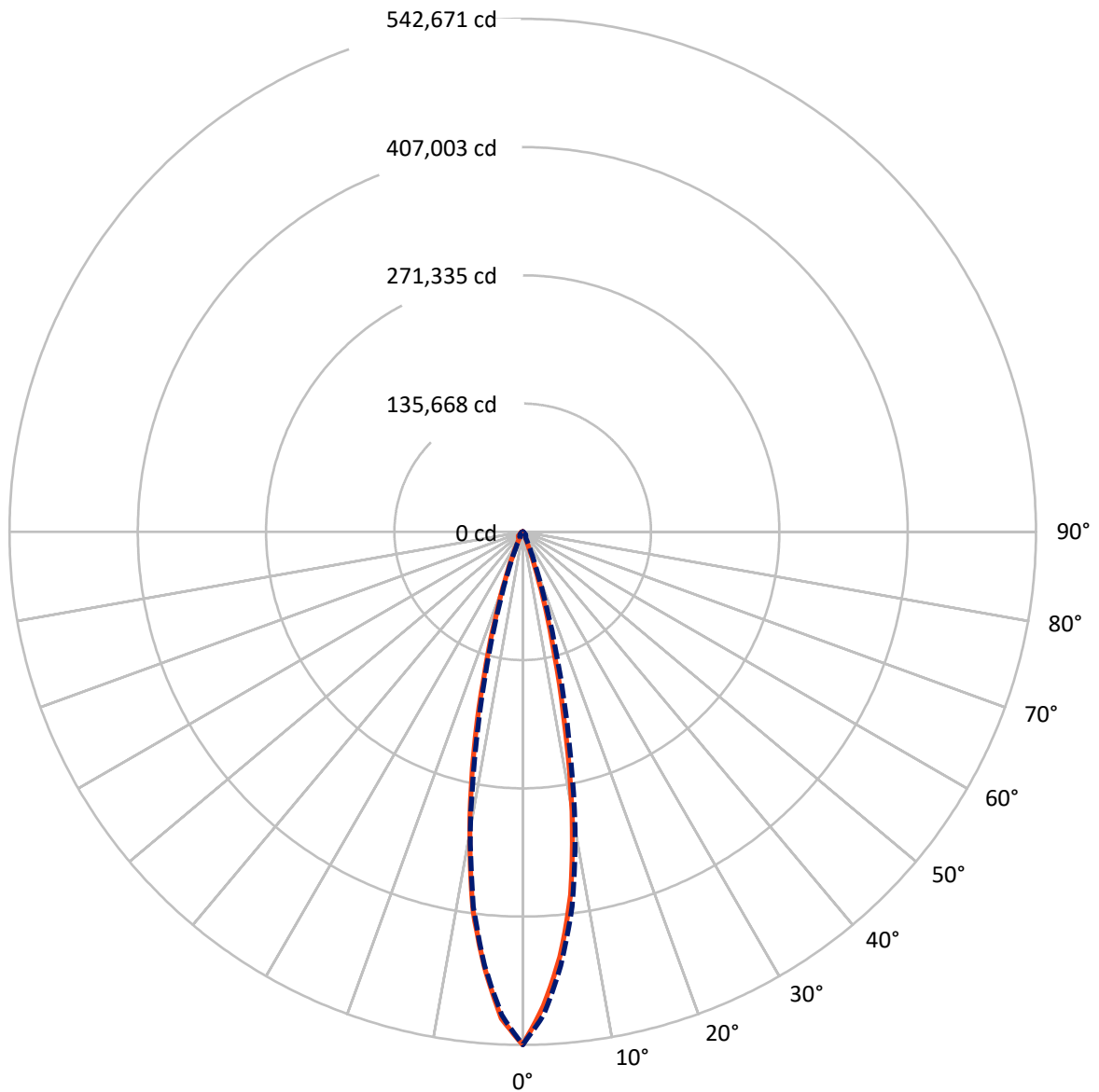
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### Lumen Table

90	0.2		0.8		1.4		2.0		2.5		2.0		1.4		0.8		0.2	
80	0.2		0.1	0.2	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.7	0.2	0.1	0.2	
70	0.2		0.4	0.8	1.1	0.9	0.8	0.9	1.1	1.1	0.9	0.8	0.9	1.1	0.8	0.4	0.2	
60	0.7		1.1	2.8	5.7	9.9	16.3	25.0	29.5	29.5	25.0	16.3	9.9	5.7	2.8	1.1	0.7	
50	0.7		2.9	9.3	18.0	35.3	61.5	74.7	82.8	82.8	74.7	61.5	35.3	18.0	9.3	2.9	0.7	
40	1.9		5.1	15.5	33.0	80.6	93.8	129.3	236.3	236.3	129.3	93.8	80.6	33.0	15.5	5.1	1.9	
30	1.9		6.8	20.2	57.8	113.6	167.0	1059.1	3416.0	3416.0	1059.1	167.0	113.6	57.8	20.2	6.8	1.9	
20	2.7		8.2	23.3	75.5	130.2	373.3	3752.0	11279.3	11279.3	3752.0	373.3	130.2	75.5	23.3	8.2	2.7	
10	2.7		9.0	25.6	79.7	143.2	428.1	4086.2	11730.0	11730.0	4086.2	428.1	143.2	79.7	25.6	9.0	2.7	
0	3.0		9.1	26.8	76.8	150.7	245.0	1497.6	4387.1	4387.1	1497.6	245.0	150.7	76.8	26.8	9.1	3.0	
-10	3.0		8.4	26.3	58.7	142.1	194.8	270.6	541.3	541.3	270.6	194.8	142.1	58.7	26.3	8.4	3.0	
-20	2.4		7.1	23.0	45.9	99.3	175.0	204.9	214.9	214.9	204.9	175.0	99.3	45.9	23.0	7.1	2.4	
-30	2.4		5.4	17.4	37.1	59.3	91.1	138.5	173.9	173.9	138.5	91.1	59.3	37.1	17.4	5.4	2.4	
-40	2.0		3.5	11.1	24.3	41.5	56.2	67.0	74.0	74.0	67.0	56.2	41.5	24.3	11.1	3.5	2.0	
-50	2.0		2.4	5.6	12.2	21.2	29.7	37.4	42.1	42.1	37.4	29.7	21.2	12.2	5.6	2.4	2.0	
-60	2.0		2.4	5.6	12.2	21.2	29.7	37.4	42.1	42.1	37.4	29.7	21.2	12.2	5.6	2.4	2.0	
-70	2.0		2.4	5.6	12.2	21.2	29.7	37.4	42.1	42.1	37.4	29.7	21.2	12.2	5.6	2.4	2.0	
-80	1.4		8.7		21.1		35.2		43.0		35.2		21.1		8.7		1.4	
-90	1.4		8.7		21.1		35.2		43.0		35.2		21.1		8.7		1.4	

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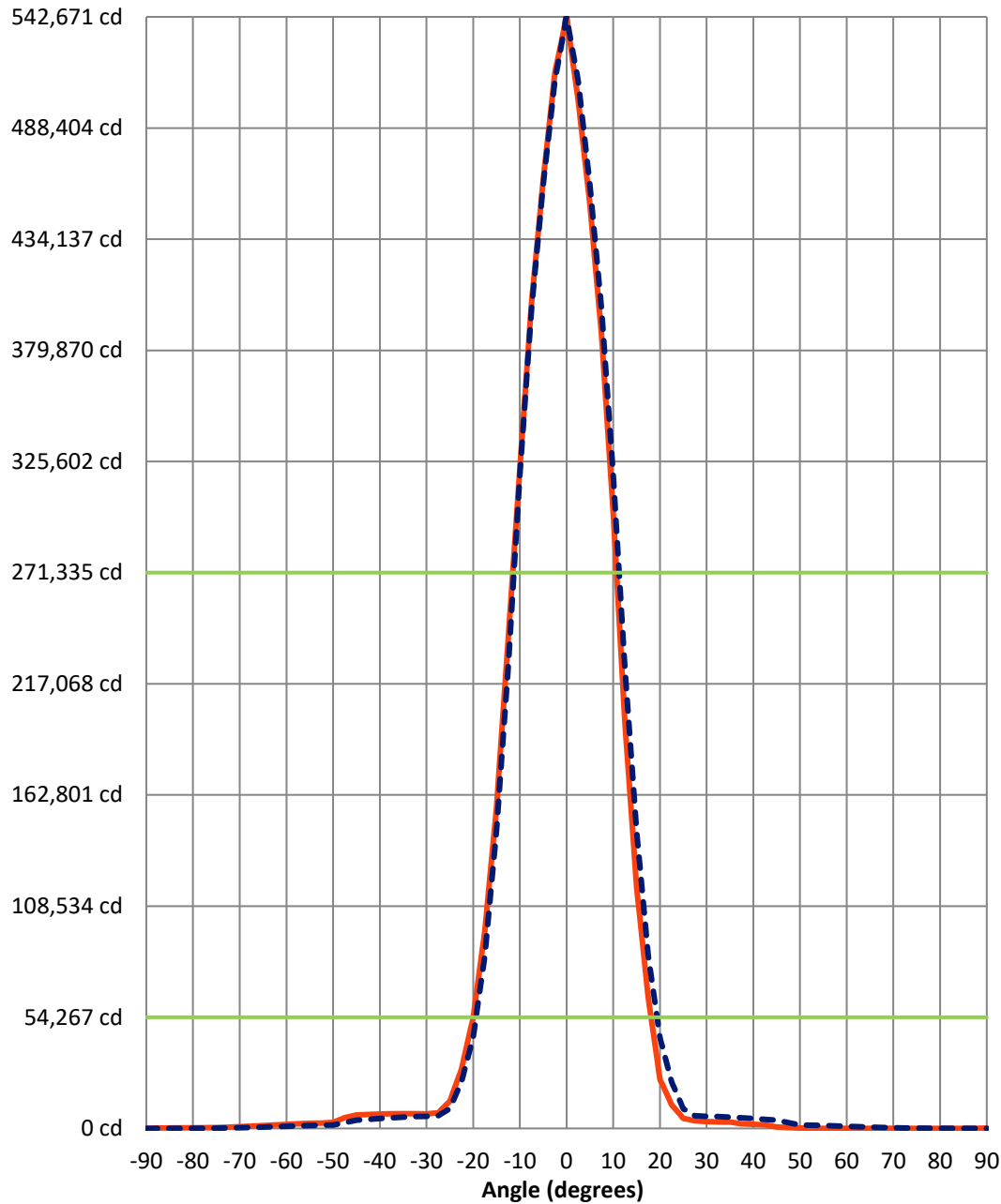
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 22.5°  
V Angle: 22.2°  
Lumens: 44322.2  
Efficiency: 46.7%

**Field:**  
H Angle: 38.8°  
V Angle: 38.1°  
Lumens: 78959.1  
Efficiency: 83.2%

**Spill:**  
Lumens: 15891.7  
Efficiency: 16.8%

— 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°	5.5	11.6	17.7	30.4	43.2	54.2	65.3	73.7	82.0	88.6	95.2
87.5°	5.5	5.6	5.7	5.7	5.7	5.7	5.8	5.7	5.5	5.5	5.5
85°	5.5	5.8	5.9	5.9	5.9	6.0	6.1	5.8	5.5	5.5	5.5
82.5°	5.5	5.9	6.1	6.2	6.1	6.2	6.4	6.0	5.6	5.8	5.8
80°	5.5	6.1	6.3	6.4	6.3	6.4	6.6	6.4	6.4	6.4	6.3
77.5°	5.5	6.2	6.5	6.6	6.5	6.7	7.0	7.0	7.1	7.1	6.8
75°	5.5	6.4	6.7	6.9	6.7	7.1	7.3	7.5	7.8	7.7	7.4
72.5°	5.5	6.5	6.9	7.1	7.2	7.5	7.7	7.9	8.3	8.2	7.9
70°	5.5	6.7	7.2	7.4	7.6	7.9	8.1	8.5	8.7	8.6	8.5
67.5°	5.5	6.8	7.4	7.7	8.0	8.4	8.7	9.0	9.2	9.4	9.2
65°	5.5	7.0	7.6	8.0	8.4	8.9	9.4	9.6	10.4	10.3	10.2
62.5°	5.5	7.1	7.9	8.3	8.8	9.6	10.1	10.8	11.6	11.4	12.0
60°	5.5	7.3	8.1	8.5	9.2	10.2	10.8	12.4	13.1	13.7	13.9
57.5°	5.5	7.4	8.4	8.8	9.9	10.9	12.6	14.1	15.8	16.5	18.6
55°	5.5	7.6	8.7	9.1	10.7	11.6	14.7	16.1	19.0	20.5	24.9
52.5°	5.5	7.7	9.1	9.4	11.5	12.5	16.9	19.6	22.5	28.2	31.8
50°	5.5	7.9	9.5	9.7	12.4	14.9	19.2	23.4	27.6	36.6	45.5
47.5°	5.5	8.0	9.9	10.1	13.3	17.3	21.9	27.3	36.1	45.8	61.9
45°	5.5	8.1	10.3	10.8	14.3	19.8	25.4	31.3	45.4	62.2	79.7
42.5°	5.5	8.3	10.7	11.6	15.4	22.4	29.0	38.3	55.5	79.8	108.4
40°	5.5	8.4	11.2	12.7	17.0	25.1	32.8	47.4	68.3	98.6	140.9
37.5°	5.5	8.5	11.7	14.0	19.0	27.8	37.0	56.8	86.7	122.9	175.8
35°	5.5	8.7	12.2	15.3	21.1	30.9	41.2	66.5	105.9	155.5	214.8
32.5°	5.5	8.8	12.8	16.7	23.2	34.3	46.7	76.6	126.0	188.6	256.2
30°	5.5	8.9	13.3	18.2	25.3	37.7	54.9	88.2	146.9	222.0	295.7
27.5°	5.5	9.0	13.9	19.7	28.0	41.1	63.0	103.6	168.3	255.7	333.0
25°	5.5	9.2	14.5	21.2	30.6	44.4	71.0	118.2	190.7	287.6	368.5
22.5°	5.5	9.3	15.0	22.7	33.2	47.8	78.8	131.9	211.4	309.2	407.0
20°	5.5	9.4	15.6	24.2	35.8	51.4	86.4	144.7	230.2	329.2	436.9
17.5°	5.5	9.5	16.2	25.7	38.2	54.8	93.3	156.5	247.3	347.6	465.2
15°	5.5	9.6	16.8	27.2	40.5	58.1	99.6	167.0	262.6	364.3	492.4
12.5°	5.5	9.7	17.4	28.7	42.7	61.3	105.2	175.9	277.0	379.3	518.1
10°	5.5	9.7	17.9	30.1	44.8	64.2	110.4	183.8	290.7	397.9	544.7
7.5°	5.5	9.8	18.5	31.6	46.8	67.0	115.0	190.6	303.0	415.9	574.9
5°	5.5	9.9	19.0	32.9	48.7	69.6	119.0	196.5	313.7	432.3	602.7
2.5°	5.5	9.9	19.4	34.2	50.5	72.0	122.4	201.2	322.8	447.0	627.5
0°	5.5	10.0	19.9	35.4	52.1	74.2	125.2	204.9	330.0	459.6	649.0
-2.5°	5.5	10.4	20.9	37.0	54.4	77.3	129.2	212.4	340.1	472.9	660.3
-5°	5.5	10.8	22.0	38.4	56.5	80.1	132.6	218.6	348.1	483.7	667.9
-7.5°	5.5	11.3	22.9	39.8	58.5	82.8	135.3	223.4	353.9	491.8	671.9
-10°	5.5	11.7	23.8	41.1	60.3	85.1	137.4	226.8	357.4	497.3	672.6
-12.5°	5.5	12.0	24.7	42.3	62.0	87.2	138.8	228.5	358.5	499.5	671.8
-15°	5.5	12.4	25.5	43.3	63.5	89.0	139.5	228.5	355.8	495.5	667.1
-17.5°	5.5	12.7	26.2	44.3	64.8	90.6	139.4	226.2	349.2	488.6	657.2
-20°	5.5	13.1	26.9	45.2	66.0	91.8	138.9	221.9	340.4	478.6	641.8



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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°	5.5	13.4	27.5	45.9	66.9	92.7	137.8	216.1	329.4	465.7	621.4
-25°	5.5	13.6	28.0	46.6	67.7	93.6	135.9	208.9	316.2	449.7	601.3
-27.5°	5.5	13.9	28.5	47.1	68.3	94.2	133.2	200.2	300.8	436.5	587.2
-30°	5.5	14.1	28.9	47.5	68.7	94.5	129.7	190.0	288.5	421.8	569.6
-32.5°	5.5	14.3	29.2	47.8	69.2	94.5	125.3	183.7	278.2	403.9	548.1
-35°	5.5	14.5	29.4	48.0	69.5	94.2	123.6	178.2	265.3	382.7	522.8
-37.5°	5.5	14.6	29.5	48.1	69.7	93.8	122.8	172.0	249.8	358.3	495.4
-40°	5.5	14.8	29.6	48.1	69.7	93.8	121.8	164.3	231.8	336.2	464.6
-42.5°	5.5	14.9	29.6	48.0	69.6	93.5	120.3	155.1	218.1	312.7	429.6
-45°	5.5	14.9	29.5	48.0	69.5	93.0	118.4	148.1	205.9	285.9	391.8
-47.5°	5.5	15.0	29.3	47.8	69.3	92.2	116.0	145.2	191.8	256.5	358.0
-50°	5.5	15.0	29.1	47.6	68.9	91.3	114.5	141.9	175.8	238.1	320.7
-52.5°	5.5	14.9	28.7	47.2	68.3	90.1	112.8	138.0	167.5	217.9	280.9
-55°	5.5	14.9	28.3	46.7	67.5	88.8	110.9	133.8	162.2	196.0	254.2
-57.5°	5.5	14.8	27.8	46.1	66.5	87.4	108.7	131.1	156.3	185.4	226.1
-60°	5.5	14.7	27.2	45.4	65.4	85.7	106.2	128.0	150.4	177.7	203.1
-62.5°	5.5	14.6	26.8	44.5	64.1	83.7	103.6	124.5	146.0	169.1	192.6
-65°	5.5	14.4	26.3	43.5	62.7	81.5	100.6	120.6	141.2	161.9	181.6
-67.5°	5.5	14.2	25.7	42.4	61.1	79.1	97.4	116.5	135.9	154.9	172.5
-70°	5.5	14.0	25.0	41.2	59.3	76.5	93.9	112.1	130.7	147.6	163.9
-72.5°	5.5	13.8	24.3	40.1	57.3	73.7	90.3	107.5	125.2	140.6	155.2
-75°	5.5	13.5	23.5	39.0	55.2	70.7	86.5	102.6	119.4	133.4	146.7
-77.5°	5.5	13.2	22.6	37.8	53.4	67.6	82.4	97.5	113.1	125.8	138.0
-80°	5.5	12.9	21.7	36.5	51.6	64.9	78.2	92.1	106.5	117.6	128.6
-82.5°	5.5	12.6	20.8	35.1	49.7	62.4	75.1	87.0	99.6	109.2	118.9
-85°	5.5	12.3	19.8	33.6	47.6	59.8	71.9	82.7	93.8	102.0	110.0
-87.5°	5.5	12.0	18.8	32.1	45.5	57.1	68.7	78.3	88.0	95.3	102.7
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5





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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	100.2	105.2	109.7	114.1	119.1	124.0	129.6	135.1	140.7	146.2	150.7
87.5°	5.2	5.0	5.0	5.0	4.7	4.4	4.4	4.4	3.9	3.3	3.3
85°	5.5	5.5	5.5	5.5	5.1	4.7	4.6	4.4	4.1	3.9	3.9
82.5°	5.9	6.0	5.9	5.5	5.4	5.4	5.0	4.6	4.6	4.7	4.6
80°	6.4	6.6	6.2	5.9	5.8	5.6	5.4	5.3	5.4	5.5	5.1
77.5°	6.8	6.7	6.5	6.5	6.2	5.8	5.9	6.1	6.0	5.6	5.5
75°	7.2	6.8	6.8	6.7	6.5	6.5	6.6	6.6	6.4	6.2	6.1
72.5°	7.7	7.4	7.2	6.9	6.8	6.7	6.6	6.6	7.7	9.2	10.4
70°	8.3	8.1	7.8	7.6	7.4	7.4	8.7	11.2	14.0	16.1	19.0
67.5°	8.9	8.9	8.5	8.5	9.1	10.3	12.3	19.6	27.0	29.6	30.9
65°	9.9	9.8	9.7	10.4	11.0	16.6	23.9	32.5	41.6	43.4	41.7
62.5°	11.2	12.4	12.0	14.0	19.0	25.8	35.1	44.9	55.3	52.9	44.2
60°	15.3	16.0	17.8	22.1	27.8	35.5	45.8	50.0	54.4	55.2	42.9
57.5°	20.6	22.9	27.1	31.5	39.2	43.5	45.0	45.1	51.3	51.7	39.3
55°	28.6	32.6	38.9	44.2	49.1	44.3	44.3	48.4	50.5	46.7	35.0
52.5°	41.2	45.4	55.2	59.2	56.7	52.7	51.7	55.2	53.2	47.5	40.4
50°	55.2	67.0	73.6	76.8	70.6	69.9	64.2	67.4	69.5	66.4	69.4
47.5°	77.7	92.1	97.4	102.2	97.2	102.5	97.2	113.0	113.3	152.4	156.9
45°	105.0	124.4	130.7	141.9	150.5	155.5	186.3	188.4	271.3	303.8	373.6
42.5°	137.1	162.4	184.4	190.0	242.2	267.1	310.8	390.7	467.2	533.0	570.2
40°	178.1	205.1	251.2	302.8	362.0	420.5	485.5	579.4	660.2	695.6	714.4
37.5°	223.2	275.1	336.5	422.6	510.7	577.9	655.1	743.4	797.1	815.9	820.2
35°	271.6	346.3	449.1	539.6	634.1	724.2	796.3	880.7	898.6	913.6	996.7
32.5°	330.4	417.5	538.8	640.3	735.9	839.2	912.2	962.0	990.7	1045.6	1316.3
30°	389.3	491.6	611.6	719.4	831.0	929.1	998.7	1047.1	1079.9	1338.8	1900.9
27.5°	437.8	555.3	674.5	799.8	923.1	1021.5	1088.4	1132.4	1323.6	1752.7	2618.2
25°	481.8	605.3	737.5	888.7	1018.3	1109.4	1177.9	1221.5	1649.1	2525.4	3125.7
22.5°	523.0	653.8	808.7	982.6	1113.1	1190.5	1256.3	1493.1	2140.6	3308.4	3631.2
20°	563.4	711.9	886.0	1062.1	1201.9	1259.3	1328.3	1797.5	2772.7	3609.8	3963.4
17.5°	605.1	771.6	959.0	1123.2	1248.3	1320.6	1431.2	2092.7	3306.5	3873.6	4129.4
15°	646.9	827.9	1018.4	1177.1	1293.9	1380.6	1666.7	2515.7	3637.2	4163.6	4404.5
12.5°	687.9	877.1	1063.0	1223.2	1341.6	1437.6	1882.1	2953.1	3935.9	4448.3	4767.2
10°	727.3	919.7	1101.2	1267.8	1388.4	1492.8	2099.6	3380.6	4205.7	4633.9	4901.4
7.5°	761.7	954.5	1134.3	1310.5	1432.1	1547.0	2338.2	3664.2	4320.4	4751.9	4969.2
5°	791.1	981.9	1167.7	1358.1	1477.4	1597.0	2554.9	3851.2	4364.1	4824.7	5040.3
2.5°	815.9	1004.0	1196.6	1402.8	1522.0	1639.3	2706.7	3969.8	4393.8	4852.6	5110.0
0°	836.2	1021.1	1220.5	1442.0	1562.7	1676.8	2819.8	4027.0	4403.5	4842.1	5175.5
-2.5°	849.3	1046.1	1264.7	1479.9	1596.1	1708.2	2815.1	4060.6	4415.6	4898.1	5428.6
-5°	858.2	1065.6	1301.9	1511.8	1626.3	1735.9	2766.9	4036.1	4442.3	4983.0	5594.0
-7.5°	862.6	1078.8	1330.4	1537.6	1654.8	1766.9	2707.4	3979.2	4578.8	5157.9	5697.8
-10°	864.0	1086.5	1336.2	1550.0	1681.2	1797.4	2609.4	3859.9	4686.5	5231.0	5727.9
-12.5°	869.8	1090.2	1333.2	1555.1	1703.7	1825.2	2488.2	3780.9	4831.4	5276.2	5717.0
-15°	869.2	1088.8	1324.3	1553.6	1731.2	1862.5	2327.1	3594.4	4919.7	5286.4	5687.6
-17.5°	861.9	1082.6	1310.7	1548.3	1757.4	1890.4	2099.8	3210.6	4667.4	5241.6	5652.8
-20°	847.4	1069.0	1291.5	1531.5	1771.9	1916.3	2072.7	2874.6	4148.1	5123.1	5587.3



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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°	826.7	1049.1	1268.0	1503.3	1765.0	1945.6	2091.6	2547.8	3635.2	4947.4	5481.0
-25°	802.4	1021.3	1240.9	1488.1	1754.8	1973.5	2095.5	2244.2	3189.0	4365.7	5297.9
-27.5°	775.6	987.1	1211.1	1455.9	1738.9	1968.5	2093.9	2234.2	2713.8	3650.1	5006.4
-30°	744.4	948.5	1170.0	1409.1	1682.9	1915.5	2088.9	2205.0	2351.5	3089.0	4245.6
-32.5°	710.0	905.0	1121.0	1356.0	1610.8	1856.3	2060.1	2181.6	2310.2	2562.7	3495.0
-35°	676.2	862.9	1067.0	1294.9	1537.1	1776.0	1984.4	2157.0	2264.9	2406.9	2832.4
-37.5°	644.8	815.7	1007.8	1228.2	1462.5	1676.2	1901.7	2088.7	2236.4	2339.3	2511.4
-40°	608.6	763.0	947.1	1153.5	1364.0	1567.4	1781.9	1992.1	2173.7	2309.2	2411.8
-42.5°	567.9	715.4	882.0	1065.3	1259.8	1453.4	1656.2	1864.5	2063.7	2242.5	2369.7
-45°	523.7	662.3	812.2	978.6	1151.2	1335.7	1528.8	1725.9	1923.7	2120.8	2277.7
-47.5°	472.5	603.8	746.0	886.0	1045.2	1214.7	1394.2	1579.5	1762.4	1952.6	2133.2
-50°	419.3	540.7	670.6	799.7	937.9	1091.1	1255.4	1428.6	1602.0	1777.7	1951.7
-52.5°	371.0	471.9	591.6	713.3	835.4	966.4	1115.2	1273.0	1436.7	1602.3	1754.6
-55°	319.5	410.3	508.6	622.6	737.2	851.1	972.0	1114.9	1263.2	1416.9	1553.4
-57.5°	279.9	348.2	433.0	527.3	633.8	741.7	847.7	955.1	1087.6	1224.2	1339.0
-60°	247.0	296.3	361.2	440.9	525.7	625.4	725.1	824.8	927.3	1025.1	1131.2
-62.5°	216.9	257.1	302.8	358.4	432.0	509.0	597.6	689.4	783.2	867.5	945.5
-65°	203.9	223.2	257.5	299.0	341.2	407.0	478.0	550.3	631.7	706.3	776.6
-67.5°	190.2	208.0	225.8	247.8	285.7	324.6	363.7	427.6	491.3	549.1	606.4
-70°	179.2	192.9	208.6	224.7	241.1	263.4	298.3	334.4	370.5	410.4	458.8
-72.5°	168.4	180.7	193.3	205.7	220.4	235.8	251.8	268.1	293.2	323.8	351.5
-75°	158.1	168.3	179.6	191.0	202.6	214.3	227.3	242.4	257.3	272.2	286.3
-77.5°	148.0	157.4	166.8	176.5	186.5	196.9	208.3	220.2	232.5	244.7	255.6
-80°	137.5	146.3	154.5	162.7	171.6	180.6	190.1	199.9	210.7	221.9	231.8
-82.5°	126.2	133.5	140.9	148.3	156.5	164.7	172.8	181.0	189.9	199.0	207.1
-85°	115.4	120.5	126.9	133.3	140.7	148.0	154.9	161.8	169.6	177.3	183.6
-87.5°	107.8	112.9	117.9	122.9	128.8	134.7	140.4	146.0	152.4	158.9	163.8
-90°	5.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.9	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	155.1	158.4	161.7	163.4	165.0	168.4	171.7	176.7	181.6	187.2	192.7
87.5°	3.3	3.3	3.3	3.2	3.2	2.7	2.2	2.2	2.2	2.2	2.2
85°	4.0	4.1	4.1	3.7	3.3	3.2	3.2	3.2	3.2	2.7	2.2
82.5°	4.4	4.4	4.4	4.2	4.1	3.8	3.3	3.3	3.3	3.3	3.3
80°	4.8	4.6	4.4	4.4	4.4	4.3	4.1	3.8	3.3	3.8	4.3
77.5°	5.5	5.2	4.8	4.7	4.5	4.1	3.7	3.4	3.3	3.4	3.4
75°	5.7	5.8	6.6	6.7	6.6	6.0	5.0	4.9	5.0	4.8	4.4
72.5°	11.3	11.9	12.2	13.3	13.9	14.5	15.7	17.9	20.4	22.7	25.0
70°	22.7	25.8	26.5	26.6	26.6	27.3	28.5	29.8	31.5	33.0	34.3
67.5°	34.9	37.6	38.0	38.6	37.6	36.0	34.5	34.5	36.5	38.9	41.4
65°	42.5	39.7	37.6	37.1	36.4	34.6	31.7	29.6	29.1	28.7	28.8
62.5°	38.2	32.7	30.7	30.3	28.6	26.5	22.6	19.4	17.8	16.9	17.0
60°	33.1	26.7	22.7	20.9	18.2	15.5	13.1	10.7	10.0	9.7	9.8
57.5°	27.3	20.3	15.6	14.9	12.9	10.2	8.4	6.6	6.3	6.4	6.7
55°	25.0	21.3	17.8	16.7	14.3	13.1	11.3	8.9	8.4	9.0	9.9
52.5°	32.4	30.4	28.8	28.9	31.8	29.6	22.0	30.9	35.9	35.9	34.3
50°	71.1	64.0	91.3	87.9	109.8	124.4	113.0	126.8	146.6	160.6	170.4
47.5°	203.0	210.4	243.1	271.4	294.3	319.9	345.8	361.4	365.4	391.3	409.1
45°	408.7	433.3	469.7	488.1	524.0	566.5	596.3	609.7	688.0	785.4	848.3
42.5°	593.2	612.2	640.8	705.7	771.4	917.0	1084.1	1089.9	1240.8	1374.5	1511.2
40°	722.3	757.9	859.7	1013.6	1368.8	1646.0	1843.2	2036.6	2068.8	2006.0	2040.3
37.5°	889.3	1016.6	1274.3	1689.5	1997.0	2275.4	2387.4	2402.0	2441.0	2465.6	2426.6
35°	1204.1	1628.2	1842.0	2194.9	2418.6	2472.8	2506.7	2540.1	2572.1	2593.9	2617.7
32.5°	1893.6	2418.9	2447.1	2537.8	2579.6	2627.8	2663.7	2684.6	2699.2	2718.3	2783.2
30°	2634.8	2757.1	2767.2	2760.0	2774.4	2806.8	2830.3	2868.6	2906.8	2950.7	3094.4
27.5°	2980.8	3074.5	3045.3	2995.4	2970.6	2996.4	3060.4	3119.9	3230.8	3347.4	3553.7
25°	3363.9	3426.0	3390.3	3301.6	3246.0	3282.7	3378.8	3492.4	3704.3	3891.1	4270.8
22.5°	3774.1	3889.6	3852.2	3825.8	3708.7	3726.2	3802.0	4058.3	4588.4	5427.6	7170.3
20°	4092.3	4233.4	4251.2	4251.9	4227.2	4234.5	4410.6	5236.9	6786.8	11657.3	15974.8
17.5°	4328.2	4410.9	4510.2	4551.0	4599.3	4740.3	5679.9	8538.5	15231.8	24189.8	31049.4
15°	4634.0	4739.8	4847.4	4915.6	5024.7	5799.7	8202.5	16982.0	29153.5	44357.4	63790.9
12.5°	4878.7	5009.2	5094.6	5148.6	5400.2	7439.1	15799.0	28437.8	47428.3	71021.1	106020.1
10°	5014.2	5115.9	5232.4	5419.5	6445.5	10790.6	22279.9	39962.4	69154.8	111651.6	158267.1
7.5°	5081.5	5213.2	5408.1	5692.3	7628.8	15752.4	30995.5	56406.9	96279.6	149196.4	214148.1
5°	5160.0	5403.4	5635.4	5960.8	8547.7	19334.9	37923.6	70432.3	119929.5	184663.0	264878.6
2.5°	5286.8	5652.9	5802.4	6114.9	9101.4	21641.2	42054.9	81402.2	137589.5	213604.8	303666.0
0°	5486.7	5791.3	5881.0	6195.5	9658.7	22781.8	44481.6	84410.2	145456.0	224875.7	318942.5
-2.5°	5712.6	5902.8	6002.1	6352.8	9938.6	23945.5	46390.9	86431.4	143582.6	221121.1	313203.3
-5°	5859.9	6010.9	6107.2	6449.9	9907.9	22781.8	44257.6	80488.9	132629.5	201981.3	284309.2
-7.5°	5960.2	6117.4	6218.3	6532.3	9322.2	19688.1	39090.5	69380.3	112712.2	169589.8	240700.3
-10°	6058.2	6229.9	6362.0	6610.1	8250.8	15029.8	30681.7	52342.4	88148.0	133402.8	186570.0
-12.5°	6146.6	6358.7	6528.7	6642.9	7244.5	11431.9	22547.3	40036.2	63448.1	97230.1	136136.4
-15°	6191.2	6445.0	6635.3	6761.2	7110.1	9039.3	14600.5	26492.6	44296.9	65251.1	90567.6
-17.5°	6114.2	6492.7	6675.9	6814.5	6929.2	7425.0	10299.1	16262.2	27382.4	41109.1	53476.1
-20°	5991.7	6498.0	6705.4	6892.0	7022.4	7157.5	7523.6	10356.3	14880.3	23301.5	31544.0



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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°	5888.1	6358.9	6791.8	6993.4	7143.4	7153.3	7164.6	7505.6	9272.0	12109.3	16469.5
-25°	5816.2	6261.7	6765.4	7077.8	7181.7	7185.4	7128.7	7065.4	7265.7	7467.0	9060.2
-27.5°	5694.7	6178.0	6651.4	7032.3	7186.3	7181.0	7138.0	7095.7	7026.3	6981.1	7152.9
-30°	5546.1	6031.6	6472.4	6855.5	7083.8	7153.9	7124.6	7093.1	7071.7	7056.6	7025.8
-32.5°	4753.9	5851.9	6223.2	6570.8	6896.6	7039.3	7102.8	7088.1	7068.8	7060.5	7066.0
-35°	3883.1	5016.7	5980.9	6228.6	6511.3	6795.2	6995.6	7040.9	7060.9	7057.4	7066.2
-37.5°	2977.4	3998.7	4946.0	5737.8	6078.1	6373.3	6664.5	6857.3	6973.1	6993.1	7020.3
-40°	2566.0	2854.8	3752.2	4548.0	5210.1	5819.7	6128.0	6461.3	6721.4	6826.1	6881.1
-42.5°	2457.3	2572.0	2689.9	3273.6	3959.0	4540.1	5115.8	5687.9	6162.9	6431.5	6606.4
-45°	2410.0	2473.9	2541.9	2635.9	2720.1	3210.8	3739.4	4296.9	4921.1	5387.3	5821.6
-47.5°	2272.0	2400.8	2465.7	2505.6	2535.3	2600.0	2658.0	2815.1	3334.5	3743.0	4196.2
-50°	2089.5	2220.5	2326.7	2421.1	2453.4	2468.3	2485.7	2538.0	2620.9	2681.3	2772.5
-52.5°	1878.3	2001.2	2119.5	2220.6	2292.8	2355.0	2414.4	2455.6	2489.2	2524.1	2557.1
-55°	1676.3	1780.9	1882.4	1977.3	2063.5	2135.2	2205.8	2273.0	2336.1	2395.3	2450.7
-57.5°	1454.8	1559.3	1652.6	1737.8	1811.2	1871.0	1940.7	2014.8	2084.2	2145.7	2205.7
-60°	1231.2	1326.3	1415.5	1496.1	1563.4	1616.2	1684.0	1750.4	1813.8	1871.1	1921.4
-62.5°	1021.0	1102.2	1179.1	1250.2	1313.8	1370.6	1427.4	1484.4	1544.3	1598.0	1645.3
-65°	843.3	908.2	962.8	1013.5	1056.3	1107.6	1162.3	1213.3	1266.1	1315.7	1361.0
-67.5°	664.9	719.9	765.7	809.5	845.3	881.3	922.0	960.8	998.1	1036.7	1074.5
-70°	501.8	540.5	569.4	599.5	634.7	667.5	700.3	733.3	764.3	798.2	833.2
-72.5°	374.5	393.3	412.3	436.7	457.7	481.5	505.1	530.4	556.0	580.7	603.7
-75°	299.8	311.7	326.1	338.0	347.0	358.7	371.7	387.6	403.6	419.6	434.6
-77.5°	266.7	274.9	281.5	286.6	291.0	296.9	302.9	314.1	326.1	339.5	352.9
-80°	241.1	246.4	250.9	254.7	258.0	262.9	267.9	277.6	287.9	297.8	307.5
-82.5°	215.1	219.5	223.3	226.5	229.6	234.2	239.0	246.7	254.6	264.2	273.9
-85°	189.9	193.7	197.4	200.3	203.1	206.9	210.5	217.7	224.9	232.6	240.3
-87.5°	168.7	171.9	175.1	177.6	180.0	183.2	186.2	191.9	197.6	203.9	210.1
-90°	3.3	3.3	3.3	2.8	2.2	2.2	2.2	2.2	2.2	1.7	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°	193.3	193.8	193.8	193.8	193.8	193.8	193.3	192.7	187.2	181.6	176.7
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.2	3.2
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	3.8	3.3	3.8
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.3	3.4
75°	3.9	3.3	3.3	3.3	3.3	3.3	3.9	4.4	4.8	5.0	4.9
72.5°	27.1	29.1	30.2	31.0	30.2	29.1	27.1	25.0	22.7	20.4	17.9
70°	34.9	35.2	35.4	35.4	35.4	35.2	34.9	34.3	33.0	31.5	29.8
67.5°	42.9	43.9	44.2	44.3	44.2	43.9	42.9	41.4	38.9	36.5	34.5
65°	27.5	25.4	23.6	22.2	23.6	25.4	27.5	28.8	28.7	29.1	29.6
62.5°	16.6	15.9	15.6	15.5	15.6	15.9	16.6	17.0	16.9	17.8	19.4
60°	9.9	10.1	9.6	8.9	9.6	10.1	9.9	9.8	9.7	10.0	10.7
57.5°	7.2	7.7	8.3	8.9	8.3	7.7	7.2	6.7	6.4	6.3	6.6
55°	10.7	11.7	12.6	13.3	12.6	11.7	10.7	9.9	9.0	8.4	8.9
52.5°	30.9	27.7	26.8	27.7	26.8	27.7	30.9	34.3	35.9	35.9	30.9
50°	175.3	178.9	183.2	188.3	183.2	178.9	175.3	170.4	160.6	146.6	126.8
47.5°	414.1	406.3	398.9	396.5	398.9	406.3	414.1	409.1	391.3	365.4	361.4
45°	785.1	727.4	698.0	715.5	698.0	727.4	785.1	848.3	785.4	688.0	609.7
42.5°	1584.6	1670.1	1737.0	1768.7	1737.0	1670.1	1584.6	1511.2	1374.5	1240.8	1089.9
40°	1986.7	1954.5	1971.7	1998.0	1971.7	1954.5	1986.7	2040.3	2006.0	2068.8	2036.6
37.5°	2445.6	2456.3	2379.1	2252.7	2379.1	2456.3	2445.6	2426.6	2465.6	2441.0	2402.0
35°	2668.2	2805.9	3063.6	3125.4	3063.6	2805.9	2668.2	2617.7	2593.9	2572.1	2540.1
32.5°	2946.9	3089.8	3133.7	3150.9	3133.7	3089.8	2946.9	2783.2	2718.3	2699.2	2684.6
30°	3280.0	3344.5	3328.3	3352.5	3328.3	3344.5	3280.0	3094.4	2950.7	2906.8	2868.6
27.5°	3644.9	3682.7	3670.3	3702.5	3670.3	3682.7	3644.9	3553.7	3347.4	3230.8	3119.9
25°	4586.8	4884.4	4868.9	4938.5	4868.9	4884.4	4586.8	4270.8	3891.1	3704.3	3492.4
22.5°	9291.8	10343.9	10973.8	11583.6	10973.8	10343.9	9291.8	7170.3	5427.6	4588.4	4058.3
20°	20761.2	23793.2	24453.2	24212.8	24453.2	23793.2	20761.2	15974.8	11657.3	6786.8	5236.9
17.5°	44564.7	56662.0	63157.5	63880.0	63157.5	56662.0	44564.7	31049.4	24189.8	15231.8	8538.5
15°	83868.0	105011.3	117016.0	118277.3	117016.0	105011.3	83868.0	63790.9	44357.4	29153.5	16982.0
12.5°	137103.9	170774.8	195493.0	198250.8	195493.0	170774.8	137103.9	106020.1	71021.1	47428.3	28437.8
10°	210024.8	255547.5	291545.4	300315.0	291545.4	255547.5	210024.8	158267.1	111651.6	69154.8	39962.4
7.5°	282807.2	334758.0	377124.9	387093.1	377124.9	334758.0	282807.2	214148.1	149196.4	96279.6	56406.9
5°	339703.6	406173.5	439983.0	451153.6	439983.0	406173.5	339703.6	264878.6	184663.0	119929.5	70432.3
2.5°	383072.6	445836.3	485527.7	501812.5	485527.7	445836.3	383072.6	303666.0	213604.8	137589.5	81402.2
0°	399814.1	460694.9	511239.7	542670.8	511239.7	460694.9	399814.1	318942.5	224875.7	145456.0	84410.2
-2.5°	393251.8	451869.4	494826.4	515215.2	494826.4	451869.4	393251.8	313203.3	221121.1	143582.6	86431.4
-5°	360076.8	419232.7	452445.8	462966.5	452445.8	419232.7	360076.8	284309.2	201981.3	132629.5	80488.9
-7.5°	304483.0	356553.3	395935.2	402994.4	395935.2	356553.3	304483.0	240700.3	169589.8	112712.2	69380.3
-10°	241321.2	286397.2	316440.3	322123.3	316440.3	286397.2	241321.2	186570.0	133402.8	88148.0	52342.4
-12.5°	171060.8	210655.2	234408.3	238791.3	234408.3	210655.2	171060.8	136136.4	97230.1	63448.1	40036.2
-15°	116244.3	140906.9	155303.5	156757.2	155303.5	140906.9	116244.3	90567.6	65251.1	44296.9	26492.6
-17.5°	72734.1	87404.1	96376.9	96460.1	96376.9	87404.1	72734.1	53476.1	41109.1	27382.4	16262.2
-20°	42108.8	49109.2	54129.3	54108.3	54129.3	49109.2	42108.8	31544.0	23301.5	14880.3	10356.3



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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°	21939.2	26099.8	29126.8	28988.4	29126.8	26099.8	21939.2	16469.5	12109.3	9272.0	7505.6
-25°	10773.2	12366.1	13426.2	13343.5	13426.2	12366.1	10773.2	9060.2	7467.0	7265.7	7065.4
-27.5°	7300.9	7476.2	7597.2	7609.8	7597.2	7476.2	7300.9	7152.9	6981.1	7026.3	7095.7
-30°	7013.9	7054.0	7096.2	7107.0	7096.2	7054.0	7013.9	7025.8	7056.6	7071.7	7093.1
-32.5°	7083.2	7114.5	7160.9	7190.1	7160.9	7114.5	7083.2	7066.0	7060.5	7068.8	7088.1
-35°	7088.2	7124.6	7178.2	7202.3	7178.2	7124.6	7088.2	7066.2	7057.4	7060.9	7040.9
-37.5°	7055.2	7099.7	7145.7	7166.8	7145.7	7099.7	7055.2	7020.3	6993.1	6973.1	6857.3
-40°	6930.0	6975.4	7009.1	7011.8	7009.1	6975.4	6930.0	6881.1	6826.1	6721.4	6461.3
-42.5°	6722.8	6779.0	6804.9	6800.2	6804.9	6779.0	6722.8	6606.4	6431.5	6162.9	5687.9
-45°	6233.4	6432.6	6530.4	6554.3	6530.4	6432.6	6233.4	5821.6	5387.3	4921.1	4296.9
-47.5°	4721.4	5013.4	5200.6	5275.2	5200.6	5013.4	4721.4	4196.2	3743.0	3334.5	2815.1
-50°	2891.8	2918.9	2936.8	2946.0	2936.8	2918.9	2891.8	2772.5	2681.3	2620.9	2538.0
-52.5°	2584.5	2592.4	2596.6	2597.2	2596.6	2592.4	2584.5	2557.1	2524.1	2489.2	2455.6
-55°	2490.6	2506.2	2516.0	2518.5	2516.0	2506.2	2490.6	2450.7	2395.3	2336.1	2273.0
-57.5°	2245.3	2254.3	2264.2	2270.4	2264.2	2254.3	2245.3	2205.7	2145.7	2084.2	2014.8
-60°	1951.6	1959.8	1961.4	1955.9	1961.4	1959.8	1951.6	1921.4	1871.1	1813.8	1750.4
-62.5°	1671.1	1678.7	1686.2	1689.0	1686.2	1678.7	1671.1	1645.3	1598.0	1544.3	1484.4
-65°	1382.2	1385.9	1387.7	1384.4	1387.7	1385.9	1382.2	1361.0	1315.7	1266.1	1213.3
-67.5°	1092.2	1099.6	1110.3	1117.5	1110.3	1099.6	1092.2	1074.5	1036.7	998.1	960.8
-70°	841.3	837.9	845.1	850.6	845.1	837.9	841.3	833.2	798.2	764.3	733.3
-72.5°	606.6	603.0	600.4	595.8	600.4	603.0	606.6	603.7	580.7	556.0	530.4
-75°	433.8	429.4	428.7	427.5	428.7	429.4	433.8	434.6	419.6	403.6	387.6
-77.5°	353.2	351.5	349.3	346.7	349.3	351.5	353.2	352.9	339.5	326.1	314.1
-80°	308.4	308.5	307.2	305.7	307.2	308.5	308.4	307.5	297.8	287.9	277.6
-82.5°	274.4	274.3	273.5	272.5	273.5	274.3	274.4	273.9	264.2	254.6	246.7
-85°	240.9	241.2	240.2	239.2	240.2	241.2	240.9	240.3	232.6	224.9	217.7
-87.5°	210.8	211.4	210.9	210.4	210.9	211.4	210.8	210.1	203.9	197.6	191.9
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	171.7	168.4	165.0	163.4	161.7	158.4	155.1	150.7	146.2	140.7	135.1
87.5°	2.2	2.7	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.9	4.4
85°	3.2	3.2	3.3	3.7	4.1	4.1	4.0	3.9	3.9	4.1	4.4
82.5°	3.3	3.8	4.1	4.2	4.4	4.4	4.4	4.6	4.7	4.6	4.6
80°	4.1	4.3	4.4	4.4	4.4	4.6	4.8	5.1	5.5	5.4	5.3
77.5°	3.7	4.1	4.5	4.7	4.8	5.2	5.5	5.5	5.6	6.0	6.1
75°	5.0	6.0	6.6	6.7	6.6	5.8	5.7	6.1	6.2	6.4	6.6
72.5°	15.7	14.5	13.9	13.3	12.2	11.9	11.3	10.4	9.2	7.7	6.6
70°	28.5	27.3	26.6	26.6	26.5	25.8	22.7	19.0	16.1	14.0	11.2
67.5°	34.5	36.0	37.6	38.6	38.0	37.6	34.9	30.9	29.6	27.0	19.6
65°	31.7	34.6	36.4	37.1	37.6	39.7	42.5	41.7	43.4	41.6	32.5
62.5°	22.6	26.5	28.6	30.3	30.7	32.7	38.2	44.2	52.9	55.3	44.9
60°	13.1	15.5	18.2	20.9	22.7	26.7	33.1	42.9	55.2	54.4	50.0
57.5°	8.4	10.2	12.9	14.9	15.6	20.3	27.3	39.3	51.7	51.3	45.1
55°	11.3	13.1	14.3	16.7	17.8	21.3	25.0	35.0	46.7	50.5	48.4
52.5°	22.0	29.6	31.8	28.9	28.8	30.4	32.4	40.4	47.5	53.2	55.2
50°	113.0	124.4	109.8	87.9	91.3	64.0	71.1	69.4	66.4	69.5	67.4
47.5°	345.8	319.9	294.3	271.4	243.1	210.4	203.0	156.9	152.4	113.3	113.0
45°	596.3	566.5	524.0	488.1	469.7	433.3	408.7	373.6	303.8	271.3	188.4
42.5°	1084.1	917.0	771.4	705.7	640.8	612.2	593.2	570.2	533.0	467.2	390.7
40°	1843.2	1646.0	1368.8	1013.6	859.7	757.9	722.3	714.4	695.6	660.2	579.4
37.5°	2387.4	2275.4	1997.0	1689.5	1274.3	1016.6	889.3	820.2	815.9	797.1	743.4
35°	2506.7	2472.8	2418.6	2194.9	1842.0	1628.2	1204.1	996.7	913.6	898.6	880.7
32.5°	2663.7	2627.8	2579.6	2537.8	2447.1	2418.9	1893.6	1316.3	1045.6	990.7	962.0
30°	2830.3	2806.8	2774.4	2760.0	2767.2	2757.1	2634.8	1900.9	1338.8	1079.9	1047.1
27.5°	3060.4	2996.4	2970.6	2995.4	3045.3	3074.5	2980.8	2618.2	1752.7	1323.6	1132.4
25°	3378.8	3282.7	3246.0	3301.6	3390.3	3426.0	3363.9	3125.7	2525.4	1649.1	1221.5
22.5°	3802.0	3726.2	3708.7	3825.8	3852.2	3889.6	3774.1	3631.2	3308.4	2140.6	1493.1
20°	4410.6	4234.5	4227.2	4251.9	4251.2	4233.4	4092.3	3963.4	3609.8	2772.7	1797.5
17.5°	5679.9	4740.3	4599.3	4551.0	4510.2	4410.9	4328.2	4129.4	3873.6	3306.5	2092.7
15°	8202.5	5799.7	5024.7	4915.6	4847.4	4739.8	4634.0	4404.5	4163.6	3637.2	2515.7
12.5°	15799.0	7439.1	5400.2	5148.6	5094.6	5009.2	4878.7	4767.2	4448.3	3935.9	2953.1
10°	22279.9	10790.6	6445.5	5419.5	5232.4	5115.9	5014.2	4901.4	4633.9	4205.7	3380.6
7.5°	30995.5	15752.4	7628.8	5692.3	5408.1	5213.2	5081.5	4969.2	4751.9	4320.4	3664.2
5°	37923.6	19334.9	8547.7	5960.8	5635.4	5403.4	5160.0	5040.3	4824.7	4364.1	3851.2
2.5°	42054.9	21641.2	9101.4	6114.9	5802.4	5652.9	5286.8	5110.0	4852.6	4393.8	3969.8
0°	44481.6	22781.8	9658.7	6195.5	5881.0	5791.3	5486.7	5175.5	4842.1	4403.5	4027.0
-2.5°	46390.9	23945.5	9938.6	6352.8	6002.1	5902.8	5712.6	5428.6	4898.1	4415.6	4060.6
-5°	44257.6	22781.8	9907.9	6449.9	6107.2	6010.9	5859.9	5594.0	4983.0	4442.3	4036.1
-7.5°	39090.5	19688.1	9322.2	6532.3	6218.3	6117.4	5960.2	5697.8	5157.9	4578.8	3979.2
-10°	30681.7	15029.8	8250.8	6610.1	6362.0	6229.9	6058.2	5727.9	5231.0	4686.5	3859.9
-12.5°	22547.3	11431.9	7244.5	6642.9	6528.7	6358.7	6146.6	5717.0	5276.2	4831.4	3780.9
-15°	14600.5	9039.3	7110.1	6761.2	6635.3	6445.0	6191.2	5687.6	5286.4	4919.7	3594.4
-17.5°	10299.1	7425.0	6929.2	6814.5	6675.9	6492.7	6114.2	5652.8	5241.6	4667.4	3210.6
-20°	7523.6	7157.5	7022.4	6892.0	6705.4	6498.0	5991.7	5587.3	5123.1	4148.1	2874.6



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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°	7164.6	7153.3	7143.4	6993.4	6791.8	6358.9	5888.1	5481.0	4947.4	3635.2	2547.8
-25°	7128.7	7185.4	7181.7	7077.8	6765.4	6261.7	5816.2	5297.9	4365.7	3189.0	2244.2
-27.5°	7138.0	7181.0	7186.3	7032.3	6651.4	6178.0	5694.7	5006.4	3650.1	2713.8	2234.2
-30°	7124.6	7153.9	7083.8	6855.5	6472.4	6031.6	5546.1	4245.6	3089.0	2351.5	2205.0
-32.5°	7102.8	7039.3	6896.6	6570.8	6223.2	5851.9	4753.9	3495.0	2562.7	2310.2	2181.6
-35°	6995.6	6795.2	6511.3	6228.6	5980.9	5016.7	3883.1	2832.4	2406.9	2264.9	2157.0
-37.5°	6664.5	6373.3	6078.1	5737.8	4946.0	3998.7	2977.4	2511.4	2339.3	2236.4	2088.7
-40°	6128.0	5819.7	5210.1	4548.0	3752.2	2854.8	2566.0	2411.8	2309.2	2173.7	1992.1
-42.5°	5115.8	4540.1	3959.0	3273.6	2689.9	2572.0	2457.3	2369.7	2242.5	2063.7	1864.5
-45°	3739.4	3210.8	2720.1	2635.9	2541.9	2473.9	2410.0	2277.7	2120.8	1923.7	1725.9
-47.5°	2658.0	2600.0	2535.3	2505.6	2465.7	2400.8	2272.0	2133.2	1952.6	1762.4	1579.5
-50°	2485.7	2468.3	2453.4	2421.1	2326.7	2220.5	2089.5	1951.7	1777.7	1602.0	1428.6
-52.5°	2414.4	2355.0	2292.8	2220.6	2119.5	2001.2	1878.3	1754.6	1602.3	1436.7	1273.0
-55°	2205.8	2135.2	2063.5	1977.3	1882.4	1780.9	1676.3	1553.4	1416.9	1263.2	1114.9
-57.5°	1940.7	1871.0	1811.2	1737.8	1652.6	1559.3	1454.8	1339.0	1224.2	1087.6	955.1
-60°	1684.0	1616.2	1563.4	1496.1	1415.5	1326.3	1231.2	1131.2	1025.1	927.3	824.8
-62.5°	1427.4	1370.6	1313.8	1250.2	1179.1	1102.2	1021.0	945.5	867.5	783.2	689.4
-65°	1162.3	1107.6	1056.3	1013.5	962.8	908.2	843.3	776.6	706.3	631.7	550.3
-67.5°	922.0	881.3	845.3	809.5	765.7	719.9	664.9	606.4	549.1	491.3	427.6
-70°	700.3	667.5	634.7	599.5	569.4	540.5	501.8	458.8	410.4	370.5	334.4
-72.5°	505.1	481.5	457.7	436.7	412.3	393.3	374.5	351.5	323.8	293.2	268.1
-75°	371.7	358.7	347.0	338.0	326.1	311.7	299.8	286.3	272.2	257.3	242.4
-77.5°	302.9	296.9	291.0	286.6	281.5	274.9	266.7	255.6	244.7	232.5	220.2
-80°	267.9	262.9	258.0	254.7	250.9	246.4	241.1	231.8	221.9	210.7	199.9
-82.5°	239.0	234.2	229.6	226.5	223.3	219.5	215.1	207.1	199.0	189.9	181.0
-85°	210.5	206.9	203.1	200.3	197.4	193.7	189.9	183.6	177.3	169.6	161.8
-87.5°	186.2	183.2	180.0	177.6	175.1	171.9	168.7	163.8	158.9	152.4	146.0
-90°	2.2	2.2	2.2	2.8	3.3	3.3	3.3	3.3	3.3	3.9	4.4





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	129.6	124.0	119.1	114.1	109.7	105.2	100.2	95.2	88.6	82.0	73.7
87.5°	4.4	4.4	4.7	5.0	5.0	5.0	5.2	5.5	5.5	5.5	5.7
85°	4.6	4.7	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8
82.5°	5.0	5.4	5.4	5.5	5.9	6.0	5.9	5.8	5.8	5.6	6.0
80°	5.4	5.6	5.8	5.9	6.2	6.6	6.4	6.3	6.4	6.4	6.4
77.5°	5.9	5.8	6.2	6.5	6.5	6.7	6.8	6.8	7.1	7.1	7.0
75°	6.6	6.5	6.5	6.7	6.8	6.8	7.2	7.4	7.7	7.8	7.5
72.5°	6.6	6.7	6.8	6.9	7.2	7.4	7.7	7.9	8.2	8.3	7.9
70°	8.7	7.4	7.4	7.6	7.8	8.1	8.3	8.5	8.6	8.7	8.5
67.5°	12.3	10.3	9.1	8.5	8.5	8.9	8.9	9.2	9.4	9.2	9.0
65°	23.9	16.6	11.0	10.4	9.7	9.8	9.9	10.2	10.3	10.4	9.6
62.5°	35.1	25.8	19.0	14.0	12.0	12.4	11.2	12.0	11.4	11.6	10.8
60°	45.8	35.5	27.8	22.1	17.8	16.0	15.3	13.9	13.7	13.1	12.4
57.5°	45.0	43.5	39.2	31.5	27.1	22.9	20.6	18.6	16.5	15.8	14.1
55°	44.3	44.3	49.1	44.2	38.9	32.6	28.6	24.9	20.5	19.0	16.1
52.5°	51.7	52.7	56.7	59.2	55.2	45.4	41.2	31.8	28.2	22.5	19.6
50°	64.2	69.9	70.6	76.8	73.6	67.0	55.2	45.5	36.6	27.6	23.4
47.5°	97.2	102.5	97.2	102.2	97.4	92.1	77.7	61.9	45.8	36.1	27.3
45°	186.3	155.5	150.5	141.9	130.7	124.4	105.0	79.7	62.2	45.4	31.3
42.5°	310.8	267.1	242.2	190.0	184.4	162.4	137.1	108.4	79.8	55.5	38.3
40°	485.5	420.5	362.0	302.8	251.2	205.1	178.1	140.9	98.6	68.3	47.4
37.5°	655.1	577.9	510.7	422.6	336.5	275.1	223.2	175.8	122.9	86.7	56.8
35°	796.3	724.2	634.1	539.6	449.1	346.3	271.6	214.8	155.5	105.9	66.5
32.5°	912.2	839.2	735.9	640.3	538.8	417.5	330.4	256.2	188.6	126.0	76.6
30°	998.7	929.1	831.0	719.4	611.6	491.6	389.3	295.7	222.0	146.9	88.2
27.5°	1088.4	1021.5	923.1	799.8	674.5	555.3	437.8	333.0	255.7	168.3	103.6
25°	1177.9	1109.4	1018.3	888.7	737.5	605.3	481.8	368.5	287.6	190.7	118.2
22.5°	1256.3	1190.5	1113.1	982.6	808.7	653.8	523.0	407.0	309.2	211.4	131.9
20°	1328.3	1259.3	1201.9	1062.1	886.0	711.9	563.4	436.9	329.2	230.2	144.7
17.5°	1431.2	1320.6	1248.3	1123.2	959.0	771.6	605.1	465.2	347.6	247.3	156.5
15°	1666.7	1380.6	1293.9	1177.1	1018.4	827.9	646.9	492.4	364.3	262.6	167.0
12.5°	1882.1	1437.6	1341.6	1223.2	1063.0	877.1	687.9	518.1	379.3	277.0	175.9
10°	2099.6	1492.8	1388.4	1267.8	1101.2	919.7	727.3	544.7	397.9	290.7	183.8
7.5°	2338.2	1547.0	1432.1	1310.5	1134.3	954.5	761.7	574.9	415.9	303.0	190.6
5°	2554.9	1597.0	1477.4	1358.1	1167.7	981.9	791.1	602.7	432.3	313.7	196.5
2.5°	2706.7	1639.3	1522.0	1402.8	1196.6	1004.0	815.9	627.5	447.0	322.8	201.2
0°	2819.8	1676.8	1562.7	1442.0	1220.5	1021.1	836.2	649.0	459.6	330.0	204.9
-2.5°	2815.1	1708.2	1596.1	1479.9	1264.7	1046.1	849.3	660.3	472.9	340.1	212.4
-5°	2766.9	1735.9	1626.3	1511.8	1301.9	1065.6	858.2	667.9	483.7	348.1	218.6
-7.5°	2707.4	1766.9	1654.8	1537.6	1330.4	1078.8	862.6	671.9	491.8	353.9	223.4
-10°	2609.4	1797.4	1681.2	1550.0	1336.2	1086.5	864.0	672.6	497.3	357.4	226.8
-12.5°	2488.2	1825.2	1703.7	1555.1	1333.2	1090.2	869.8	671.8	499.5	358.5	228.5
-15°	2327.1	1862.5	1731.2	1553.6	1324.3	1088.8	869.2	667.1	495.5	355.8	228.5
-17.5°	2099.8	1890.4	1757.4	1548.3	1310.7	1082.6	861.9	657.2	488.6	349.2	226.2
-20°	2072.7	1916.3	1771.9	1531.5	1291.5	1069.0	847.4	641.8	478.6	340.4	221.9



REPORT NUMBER: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	2091.6	1945.6	1765.0	1503.3	1268.0	1049.1	826.7	621.4	465.7	329.4	216.1
-25°	2095.5	1973.5	1754.8	1488.1	1240.9	1021.3	802.4	601.3	449.7	316.2	208.9
-27.5°	2093.9	1968.5	1738.9	1455.9	1211.1	987.1	775.6	587.2	436.5	300.8	200.2
-30°	2088.9	1915.5	1682.9	1409.1	1170.0	948.5	744.4	569.6	421.8	288.5	190.0
-32.5°	2060.1	1856.3	1610.8	1356.0	1121.0	905.0	710.0	548.1	403.9	278.2	183.7
-35°	1984.4	1776.0	1537.1	1294.9	1067.0	862.9	676.2	522.8	382.7	265.3	178.2
-37.5°	1901.7	1676.2	1462.5	1228.2	1007.8	815.7	644.8	495.4	358.3	249.8	172.0
-40°	1781.9	1567.4	1364.0	1153.5	947.1	763.0	608.6	464.6	336.2	231.8	164.3
-42.5°	1656.2	1453.4	1259.8	1065.3	882.0	715.4	567.9	429.6	312.7	218.1	155.1
-45°	1528.8	1335.7	1151.2	978.6	812.2	662.3	523.7	391.8	285.9	205.9	148.1
-47.5°	1394.2	1214.7	1045.2	886.0	746.0	603.8	472.5	358.0	256.5	191.8	145.2
-50°	1255.4	1091.1	937.9	799.7	670.6	540.7	419.3	320.7	238.1	175.8	141.9
-52.5°	1115.2	966.4	835.4	713.3	591.6	471.9	371.0	280.9	217.9	167.5	138.0
-55°	972.0	851.1	737.2	622.6	508.6	410.3	319.5	254.2	196.0	162.2	133.8
-57.5°	847.7	741.7	633.8	527.3	433.0	348.2	279.9	226.1	185.4	156.3	131.1
-60°	725.1	625.4	525.7	440.9	361.2	296.3	247.0	203.1	177.7	150.4	128.0
-62.5°	597.6	509.0	432.0	358.4	302.8	257.1	216.9	192.6	169.1	146.0	124.5
-65°	478.0	407.0	341.2	299.0	257.5	223.2	203.9	181.6	161.9	141.2	120.6
-67.5°	363.7	324.6	285.7	247.8	225.8	208.0	190.2	172.5	154.9	135.9	116.5
-70°	298.3	263.4	241.1	224.7	208.6	192.9	179.2	163.9	147.6	130.7	112.1
-72.5°	251.8	235.8	220.4	205.7	193.3	180.7	168.4	155.2	140.6	125.2	107.5
-75°	227.3	214.3	202.6	191.0	179.6	168.3	158.1	146.7	133.4	119.4	102.6
-77.5°	208.3	196.9	186.5	176.5	166.8	157.4	148.0	138.0	125.8	113.1	97.5
-80°	190.1	180.6	171.6	162.7	154.5	146.3	137.5	128.6	117.6	106.5	92.1
-82.5°	172.8	164.7	156.5	148.3	140.9	133.5	126.2	118.9	109.2	99.6	87.0
-85°	154.9	148.0	140.7	133.3	126.9	120.5	115.4	110.0	102.0	93.8	82.7
-87.5°	140.4	134.7	128.8	122.9	117.9	112.9	107.8	102.7	95.3	88.0	78.3
-90°	4.4	4.4	4.4	4.4	4.4	4.4	5.0	5.5	5.5	5.5	5.5



REPORT NUMBER: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	65.3	54.2	43.2	30.4	17.7	11.6	5.5
87.5°	5.8	5.7	5.7	5.7	5.7	5.6	5.5
85°	6.1	6.0	5.9	5.9	5.9	5.8	5.5
82.5°	6.4	6.2	6.1	6.2	6.1	5.9	5.5
80°	6.6	6.4	6.3	6.4	6.3	6.1	5.5
77.5°	7.0	6.7	6.5	6.6	6.5	6.2	5.5
75°	7.3	7.1	6.7	6.9	6.7	6.4	5.5
72.5°	7.7	7.5	7.2	7.1	6.9	6.5	5.5
70°	8.1	7.9	7.6	7.4	7.2	6.7	5.5
67.5°	8.7	8.4	8.0	7.7	7.4	6.8	5.5
65°	9.4	8.9	8.4	8.0	7.6	7.0	5.5
62.5°	10.1	9.6	8.8	8.3	7.9	7.1	5.5
60°	10.8	10.2	9.2	8.5	8.1	7.3	5.5
57.5°	12.6	10.9	9.9	8.8	8.4	7.4	5.5
55°	14.7	11.6	10.7	9.1	8.7	7.6	5.5
52.5°	16.9	12.5	11.5	9.4	9.1	7.7	5.5
50°	19.2	14.9	12.4	9.7	9.5	7.9	5.5
47.5°	21.9	17.3	13.3	10.1	9.9	8.0	5.5
45°	25.4	19.8	14.3	10.8	10.3	8.1	5.5
42.5°	29.0	22.4	15.4	11.6	10.7	8.3	5.5
40°	32.8	25.1	17.0	12.7	11.2	8.4	5.5
37.5°	37.0	27.8	19.0	14.0	11.7	8.5	5.5
35°	41.2	30.9	21.1	15.3	12.2	8.7	5.5
32.5°	46.7	34.3	23.2	16.7	12.8	8.8	5.5
30°	54.9	37.7	25.3	18.2	13.3	8.9	5.5
27.5°	63.0	41.1	28.0	19.7	13.9	9.0	5.5
25°	71.0	44.4	30.6	21.2	14.5	9.2	5.5
22.5°	78.8	47.8	33.2	22.7	15.0	9.3	5.5
20°	86.4	51.4	35.8	24.2	15.6	9.4	5.5
17.5°	93.3	54.8	38.2	25.7	16.2	9.5	5.5
15°	99.6	58.1	40.5	27.2	16.8	9.6	5.5
12.5°	105.2	61.3	42.7	28.7	17.4	9.7	5.5
10°	110.4	64.2	44.8	30.1	17.9	9.7	5.5
7.5°	115.0	67.0	46.8	31.6	18.5	9.8	5.5
5°	119.0	69.6	48.7	32.9	19.0	9.9	5.5
2.5°	122.4	72.0	50.5	34.2	19.4	9.9	5.5
0°	125.2	74.2	52.1	35.4	19.9	10.0	5.5
-2.5°	129.2	77.3	54.4	37.0	20.9	10.4	5.5
-5°	132.6	80.1	56.5	38.4	22.0	10.8	5.5
-7.5°	135.3	82.8	58.5	39.8	22.9	11.3	5.5
-10°	137.4	85.1	60.3	41.1	23.8	11.7	5.5
-12.5°	138.8	87.2	62.0	42.3	24.7	12.0	5.5
-15°	139.5	89.0	63.5	43.3	25.5	12.4	5.5
-17.5°	139.4	90.6	64.8	44.3	26.2	12.7	5.5
-20°	138.9	91.8	66.0	45.2	26.9	13.1	5.5



REPORT NUMBER: P731721 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	137.8	92.7	66.9	45.9	27.5	13.4	5.5
-25°	135.9	93.6	67.7	46.6	28.0	13.6	5.5
-27.5°	133.2	94.2	68.3	47.1	28.5	13.9	5.5
-30°	129.7	94.5	68.7	47.5	28.9	14.1	5.5
-32.5°	125.3	94.5	69.2	47.8	29.2	14.3	5.5
-35°	123.6	94.2	69.5	48.0	29.4	14.5	5.5
-37.5°	122.8	93.8	69.7	48.1	29.5	14.6	5.5
-40°	121.8	93.8	69.7	48.1	29.6	14.8	5.5
-42.5°	120.3	93.5	69.6	48.0	29.6	14.9	5.5
-45°	118.4	93.0	69.5	48.0	29.5	14.9	5.5
-47.5°	116.0	92.2	69.3	47.8	29.3	15.0	5.5
-50°	114.5	91.3	68.9	47.6	29.1	15.0	5.5
-52.5°	112.8	90.1	68.3	47.2	28.7	14.9	5.5
-55°	110.9	88.8	67.5	46.7	28.3	14.9	5.5
-57.5°	108.7	87.4	66.5	46.1	27.8	14.8	5.5
-60°	106.2	85.7	65.4	45.4	27.2	14.7	5.5
-62.5°	103.6	83.7	64.1	44.5	26.8	14.6	5.5
-65°	100.6	81.5	62.7	43.5	26.3	14.4	5.5
-67.5°	97.4	79.1	61.1	42.4	25.7	14.2	5.5
-70°	93.9	76.5	59.3	41.2	25.0	14.0	5.5
-72.5°	90.3	73.7	57.3	40.1	24.3	13.8	5.5
-75°	86.5	70.7	55.2	39.0	23.5	13.5	5.5
-77.5°	82.4	67.6	53.4	37.8	22.6	13.2	5.5
-80°	78.2	64.9	51.6	36.5	21.7	12.9	5.5
-82.5°	75.1	62.4	49.7	35.1	20.8	12.6	5.5
-85°	71.9	59.8	47.6	33.6	19.8	12.3	5.5
-87.5°	68.7	57.1	45.5	32.1	18.8	12.0	5.5
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



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

Scaled Data Report

