

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: P701562 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-70-2S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

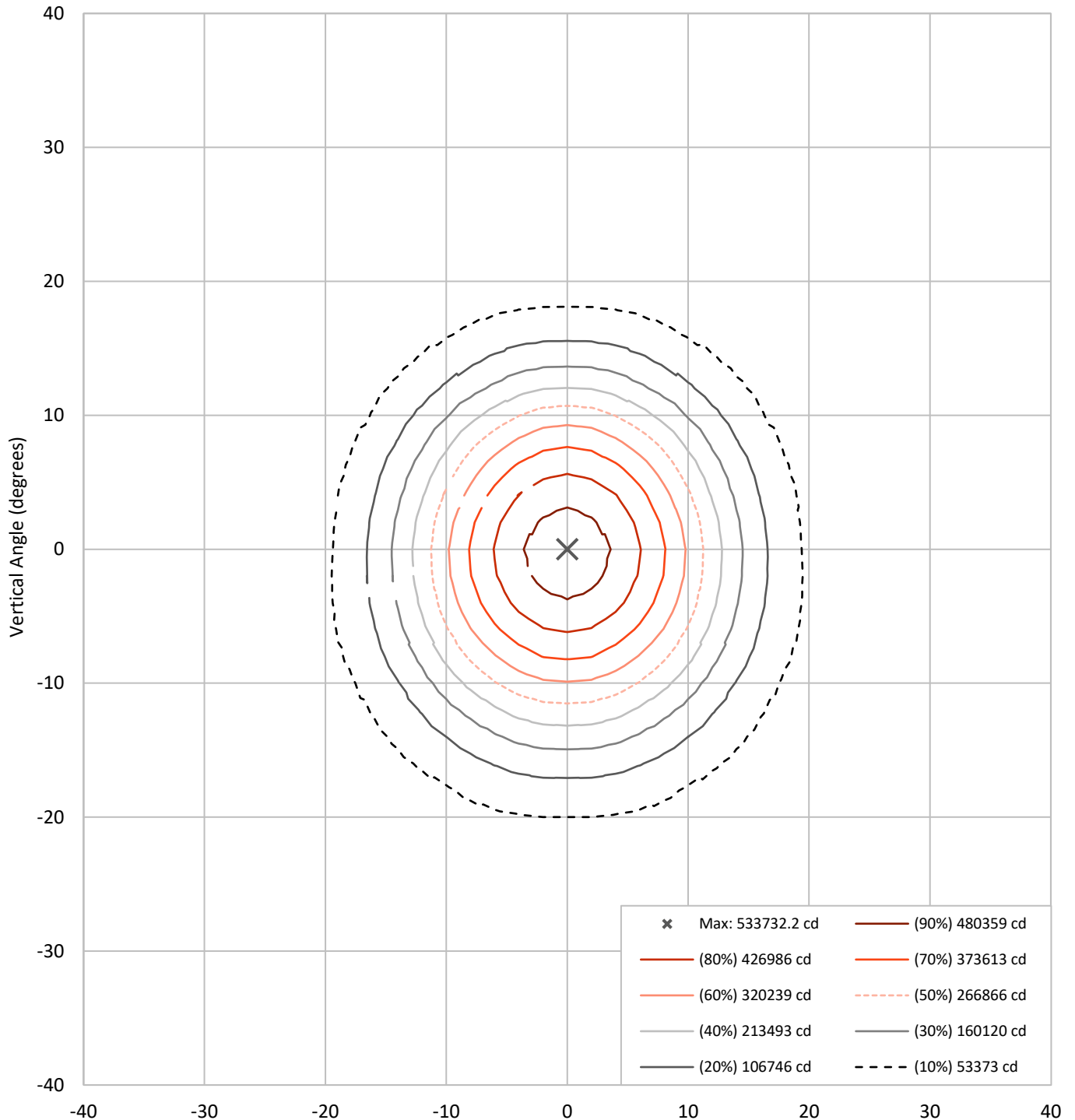
Test Method: LM-79-08  
Report Number: P701562 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-57-70-2S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 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:	93288.4 lumens	Max Intensity:	533732.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	140.0 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:	43592.2 lumens	Field Lumens:	77658.5 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%
Input Watts (W):	666.2		
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





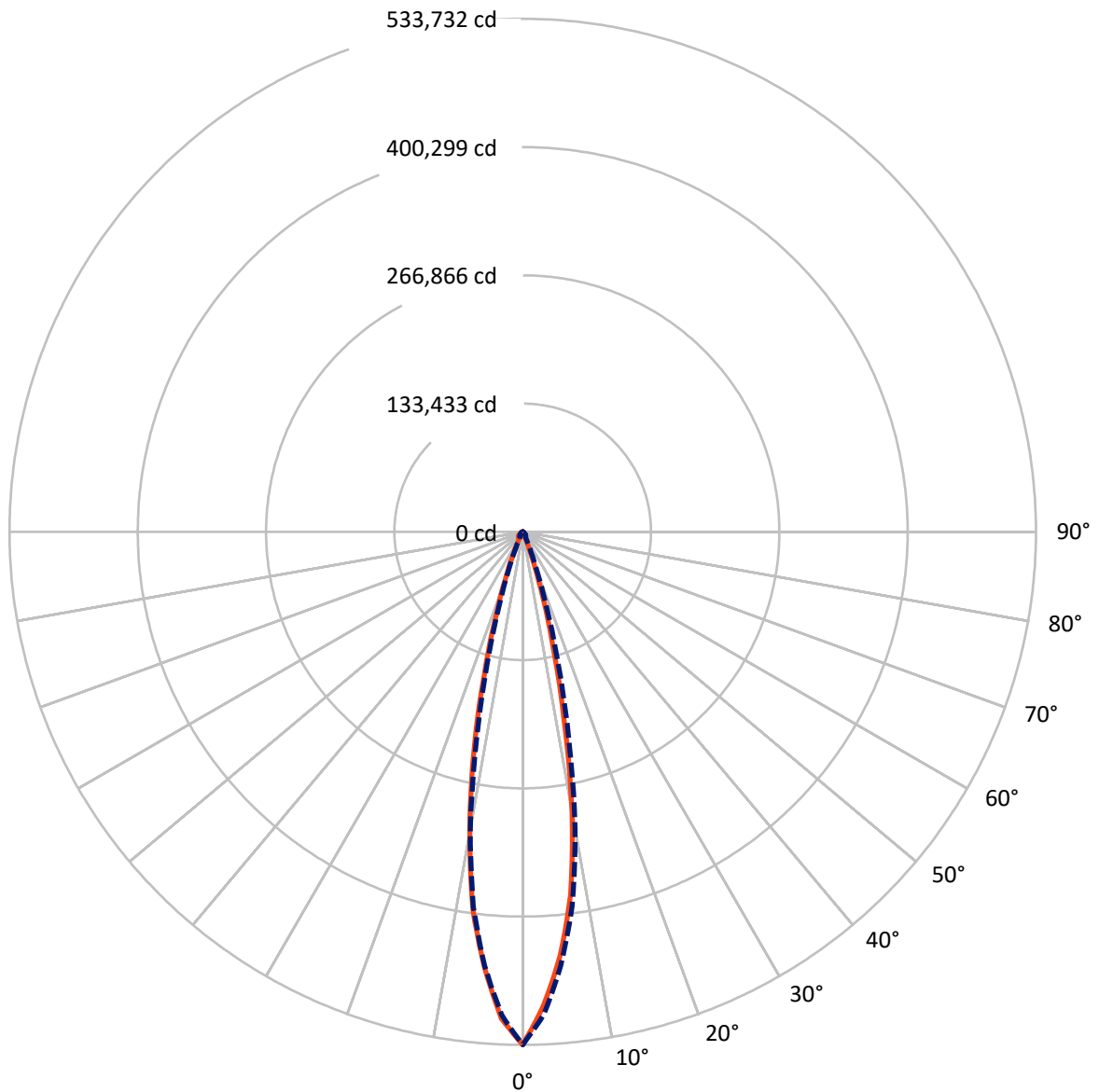
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### Lumen Table

90	0.2		0.7		1.4		2.0		2.4		2.0		1.4		0.7		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		0.3	0.8	1.1	0.9	0.8	0.9	1.1	1.1	0.9	0.8	0.9	1.1	0.8	0.3	0.2	
60	0.7		1.1	2.8	5.6	9.8	16.1	24.6	29.0	29.0	24.6	16.1	9.8	5.6	2.8	1.1	0.7	
50	0.7		2.9	9.2	17.7	34.7	60.5	73.5	81.5	81.5	73.5	60.5	34.7	17.7	9.2	2.9	0.7	
40	1.8		5.0	15.2	32.4	79.3	92.2	127.2	232.4	232.4	127.2	92.2	79.3	32.4	15.2	5.0	1.8	
30	1.8		6.7	19.8	56.8	111.8	164.2	1041.6	3359.8	3359.8	1041.6	164.2	111.8	56.8	19.8	6.7	1.8	
20	2.7		8.0	22.9	74.2	128.0	367.2	3690.2	11093.5	11093.5	3690.2	367.2	128.0	74.2	22.9	8.0	2.7	
10	2.7		8.8	25.2	78.4	140.8	421.0	4018.9	11536.8	11536.8	4018.9	421.0	140.8	78.4	25.2	8.8	2.7	
0	2.9		8.9	26.3	75.5	148.2	241.0	1472.9	4314.9	4314.9	1472.9	241.0	148.2	75.5	26.3	8.9	2.9	
-10	2.9		8.2	25.8	57.7	139.7	191.6	266.2	532.4	532.4	266.2	191.6	139.7	57.7	25.8	8.2	2.9	
-20	2.4		7.0	22.6	45.2	97.7	172.1	201.5	211.4	211.4	201.5	172.1	97.7	45.2	22.6	7.0	2.4	
-30	2.4		5.3	17.1	36.5	58.3	89.6	136.2	171.0	171.0	136.2	89.6	58.3	36.5	17.1	5.3	2.4	
-40	1.9		3.5	10.9	23.9	40.8	55.2	65.9	72.8	72.8	65.9	55.2	40.8	23.9	10.9	3.5	1.9	
-50	1.9		2.4	5.5	12.0	20.8	29.3	36.8	41.4	41.4	36.8	29.3	20.8	12.0	5.5	2.4	1.9	
-60	1.9		2.4	5.5	12.0	20.8	29.3	36.8	41.4	41.4	36.8	29.3	20.8	12.0	5.5	2.4	1.9	
-70	1.9		2.4	5.5	12.0	20.8	29.3	36.8	41.4	41.4	36.8	29.3	20.8	12.0	5.5	2.4	1.9	
-80	1.4		8.5		20.7		34.6		42.3		34.6		20.7		8.5		1.4	
-90	1.4		8.5		20.7		34.6		42.3		34.6		20.7		8.5		1.4	

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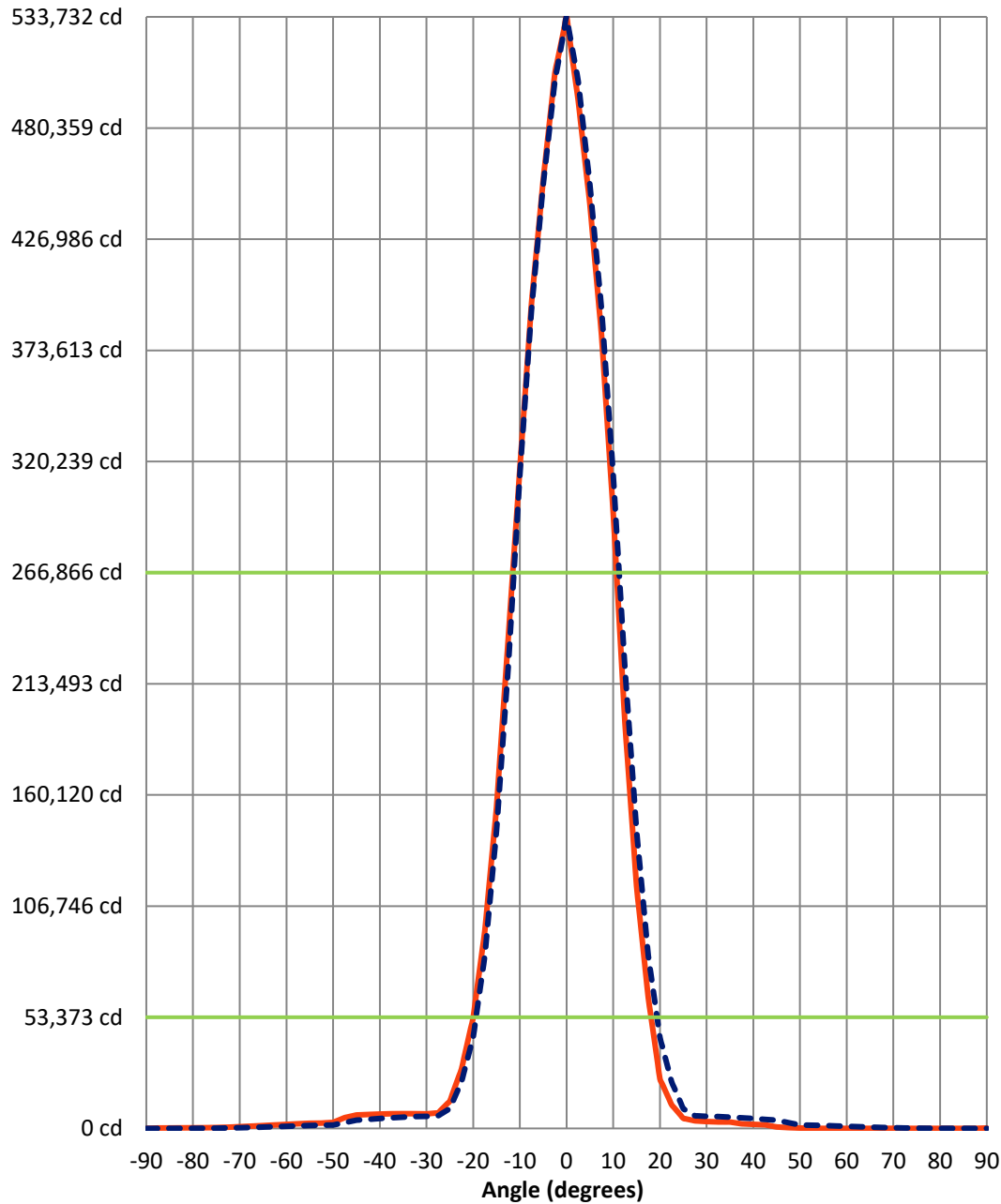
### Luminous Intensity Polar Plot



— 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: 43592.2  
Efficiency: 46.7%

**Field:**  
H Angle: 38.8°  
V Angle: 38.1°  
Lumens: 77658.5  
Efficiency: 83.2%

**Spill:**  
Lumens: 15629.9  
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°	5.4	11.4	17.4	29.9	42.5	53.4	64.3	72.5	80.6	87.2	93.7
87.5°	5.4	5.5	5.6	5.6	5.6	5.6	5.7	5.6	5.4	5.4	5.4
85°	5.4	5.7	5.8	5.8	5.8	5.9	6.0	5.7	5.4	5.4	5.4
82.5°	5.4	5.8	6.0	6.0	6.0	6.1	6.3	5.9	5.5	5.6	5.7
80°	5.4	6.0	6.2	6.3	6.2	6.3	6.5	6.3	6.2	6.3	6.2
77.5°	5.4	6.1	6.4	6.5	6.4	6.6	6.8	6.8	7.0	7.0	6.7
75°	5.4	6.3	6.6	6.7	6.6	7.0	7.1	7.3	7.6	7.5	7.2
72.5°	5.4	6.4	6.8	7.0	7.0	7.4	7.5	7.7	8.1	8.0	7.7
70°	5.4	6.6	7.0	7.2	7.4	7.8	7.9	8.3	8.5	8.4	8.3
67.5°	5.4	6.7	7.2	7.5	7.8	8.2	8.5	8.8	9.0	9.2	9.0
65°	5.4	6.8	7.4	7.8	8.2	8.7	9.2	9.4	10.2	10.1	10.0
62.5°	5.4	7.0	7.7	8.1	8.6	9.4	9.9	10.6	11.4	11.2	11.7
60°	5.4	7.1	7.9	8.4	9.0	10.0	10.6	12.1	12.8	13.5	13.7
57.5°	5.4	7.3	8.2	8.6	9.7	10.7	12.4	13.8	15.5	16.2	18.2
55°	5.4	7.4	8.5	8.9	10.5	11.4	14.4	15.8	18.6	20.1	24.5
52.5°	5.4	7.5	8.9	9.2	11.3	12.3	16.6	19.2	22.1	27.8	31.3
50°	5.4	7.7	9.2	9.5	12.2	14.6	18.9	22.9	27.0	36.0	44.8
47.5°	5.4	7.8	9.6	9.8	13.1	17.0	21.5	26.8	35.4	45.0	60.8
45°	5.4	8.0	10.1	10.6	14.1	19.5	25.0	30.8	44.7	61.2	78.4
42.5°	5.4	8.1	10.5	11.4	15.1	22.0	28.5	37.6	54.5	78.5	106.6
40°	5.4	8.2	11.0	12.4	16.7	24.7	32.3	46.5	67.2	97.0	138.6
37.5°	5.4	8.4	11.5	13.7	18.7	27.3	36.3	55.8	85.2	121.0	172.8
35°	5.4	8.5	12.0	15.1	20.8	30.5	40.5	65.4	104.2	153.0	211.2
32.5°	5.4	8.6	12.5	16.5	22.8	33.8	45.9	75.3	124.0	185.5	252.0
30°	5.4	8.7	13.1	17.9	24.9	37.1	54.0	86.8	144.4	218.3	290.8
27.5°	5.4	8.9	13.6	19.3	27.5	40.4	62.0	101.9	165.5	251.4	327.5
25°	5.4	9.0	14.2	20.8	30.2	43.7	69.9	116.2	187.6	282.8	362.4
22.5°	5.4	9.1	14.8	22.3	32.7	47.1	77.5	129.7	207.9	304.1	400.3
20°	5.4	9.2	15.4	23.8	35.2	50.6	85.0	142.3	226.4	323.8	429.7
17.5°	5.4	9.3	15.9	25.3	37.6	54.0	91.8	153.9	243.2	341.9	457.5
15°	5.4	9.4	16.5	26.8	39.9	57.2	98.0	164.2	258.2	358.4	484.3
12.5°	5.4	9.5	17.1	28.3	42.0	60.3	103.5	172.9	272.4	373.1	509.5
10°	5.4	9.5	17.6	29.7	44.1	63.2	108.6	180.7	285.9	391.3	535.7
7.5°	5.4	9.6	18.2	31.1	46.0	65.9	113.1	187.4	298.0	409.1	565.4
5°	5.4	9.7	18.7	32.4	47.9	68.5	117.0	193.2	308.6	425.3	592.7
2.5°	5.4	9.7	19.2	33.7	49.6	70.8	120.3	197.9	317.5	439.7	617.2
0°	5.4	9.8	19.6	34.9	51.2	73.0	123.1	201.5	324.6	452.1	638.3
-2.5°	5.4	10.2	20.6	36.4	53.4	76.0	127.0	208.8	334.5	465.1	649.4
-5°	5.4	10.6	21.6	37.9	55.5	78.8	130.4	215.0	342.3	475.7	656.9
-7.5°	5.4	11.0	22.6	39.2	57.5	81.4	133.1	219.7	348.0	483.8	660.9
-10°	5.4	11.4	23.5	40.5	59.3	83.7	135.1	223.0	351.4	489.1	661.5
-12.5°	5.4	11.8	24.3	41.6	61.0	85.8	136.5	224.7	352.5	491.3	660.8
-15°	5.4	12.2	25.1	42.7	62.4	87.6	137.2	224.7	349.9	487.4	656.2
-17.5°	5.4	12.5	25.8	43.6	63.7	89.1	137.1	222.4	343.5	480.5	646.4
-20°	5.4	12.8	26.5	44.5	64.9	90.3	136.6	218.2	334.8	470.8	631.3



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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-2S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.4	13.1	27.1	45.2	65.8	91.2	135.5	212.6	324.0	458.0	611.2
-25°	5.4	13.4	27.6	45.8	66.6	92.0	133.7	205.4	311.0	442.3	591.5
-27.5°	5.4	13.6	28.0	46.3	67.1	92.6	131.0	196.9	295.9	429.4	577.6
-30°	5.4	13.9	28.4	46.8	67.5	92.9	127.5	186.9	283.7	414.9	560.3
-32.5°	5.4	14.1	28.7	47.1	68.0	92.9	123.2	180.6	273.6	397.2	539.1
-35°	5.4	14.2	28.9	47.3	68.4	92.6	121.5	175.3	260.9	376.4	514.3
-37.5°	5.4	14.4	29.1	47.3	68.5	92.3	120.8	169.2	245.7	352.4	487.2
-40°	5.4	14.5	29.1	47.3	68.5	92.2	119.7	161.6	228.0	330.7	456.9
-42.5°	5.4	14.6	29.1	47.2	68.4	91.9	118.3	152.6	214.6	307.6	422.5
-45°	5.4	14.7	29.0	47.2	68.4	91.4	116.4	145.6	202.5	281.3	385.4
-47.5°	5.4	14.7	28.8	47.0	68.2	90.7	114.1	142.9	188.7	252.3	352.2
-50°	5.4	14.7	28.6	46.8	67.7	89.8	112.6	139.6	173.0	234.2	315.4
-52.5°	5.4	14.7	28.2	46.5	67.1	88.6	111.0	135.7	164.8	214.4	276.3
-55°	5.4	14.6	27.8	46.0	66.4	87.4	109.1	131.6	159.6	192.8	250.0
-57.5°	5.4	14.5	27.3	45.4	65.4	85.9	106.9	129.0	153.8	182.4	222.4
-60°	5.4	14.4	26.8	44.7	64.3	84.3	104.5	125.9	147.9	174.9	199.8
-62.5°	5.4	14.3	26.3	43.8	63.1	82.3	101.9	122.5	143.6	166.3	189.5
-65°	5.4	14.2	25.8	42.8	61.7	80.1	99.0	118.7	138.8	159.2	178.6
-67.5°	5.4	14.0	25.2	41.7	60.1	77.8	95.8	114.6	133.6	152.4	169.6
-70°	5.4	13.8	24.6	40.5	58.3	75.2	92.3	110.3	128.5	145.1	161.2
-72.5°	5.4	13.5	23.8	39.5	56.4	72.5	88.8	105.7	123.1	138.3	152.6
-75°	5.4	13.3	23.1	38.4	54.3	69.6	85.0	100.9	117.4	131.2	144.3
-77.5°	5.4	13.0	22.2	37.2	52.6	66.5	81.1	95.9	111.2	123.7	135.7
-80°	5.4	12.7	21.3	35.9	50.8	63.8	76.9	90.6	104.7	115.7	126.5
-82.5°	5.4	12.4	20.4	34.5	48.9	61.4	73.8	85.6	97.9	107.4	116.9
-85°	5.4	12.1	19.4	33.1	46.9	58.8	70.8	81.3	92.2	100.3	108.2
-87.5°	5.4	11.8	18.4	31.6	44.7	56.2	67.6	77.0	86.5	93.8	101.0
-90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	98.6	103.5	107.9	112.2	117.1	122.0	127.5	132.9	138.4	143.8	148.2
87.5°	5.1	4.9	4.9	5.0	4.7	4.4	4.4	4.4	3.9	3.3	3.3
85°	5.4	5.4	5.4	5.4	5.0	4.7	4.6	4.4	4.1	3.9	3.9
82.5°	5.8	5.9	5.8	5.4	5.3	5.3	5.0	4.6	4.6	4.7	4.6
80°	6.3	6.5	6.1	5.8	5.7	5.5	5.3	5.2	5.3	5.4	5.1
77.5°	6.7	6.6	6.4	6.4	6.1	5.7	5.8	6.0	5.9	5.5	5.4
75°	7.0	6.7	6.6	6.6	6.4	6.4	6.5	6.5	6.3	6.1	6.0
72.5°	7.5	7.3	7.1	6.8	6.7	6.6	6.5	6.5	7.5	9.1	10.3
70°	8.1	7.9	7.7	7.4	7.2	7.3	8.6	11.0	13.7	15.8	18.7
67.5°	8.7	8.7	8.3	8.3	8.9	10.1	12.1	19.3	26.5	29.1	30.4
65°	9.7	9.6	9.5	10.2	10.8	16.3	23.5	32.0	40.9	42.7	41.0
62.5°	11.0	12.1	11.8	13.7	18.7	25.4	34.5	44.2	54.4	52.0	43.4
60°	15.0	15.8	17.5	21.7	27.4	35.0	45.1	49.2	53.5	54.3	42.1
57.5°	20.3	22.5	26.6	31.0	38.5	42.8	44.3	44.4	50.5	50.9	38.7
55°	28.2	32.0	38.2	43.5	48.3	43.6	43.6	47.6	49.7	45.9	34.4
52.5°	40.5	44.6	54.3	58.3	55.7	51.9	50.9	54.3	52.3	46.7	39.7
50°	54.2	65.9	72.4	75.6	69.5	68.7	63.2	66.3	68.3	65.3	68.2
47.5°	76.3	90.5	95.8	100.5	95.6	100.9	95.5	111.1	111.5	149.9	154.3
45°	103.2	122.4	128.5	139.6	148.1	153.0	183.3	185.3	266.8	298.8	367.5
42.5°	134.8	159.7	181.4	186.9	238.3	262.7	305.6	384.3	459.5	524.2	560.9
40°	175.2	201.8	247.1	297.8	356.1	413.6	477.5	569.8	649.3	684.2	702.7
37.5°	219.5	270.6	331.0	415.7	502.4	568.4	644.4	731.2	784.0	802.4	806.7
35°	267.1	340.7	441.7	530.7	623.7	712.2	783.2	866.2	883.9	898.6	980.3
32.5°	324.9	410.7	529.9	629.8	723.8	825.3	897.1	946.1	974.4	1028.4	1294.6
30°	382.9	483.5	601.5	707.6	817.3	913.8	982.2	1029.8	1062.1	1316.7	1869.6
27.5°	430.6	546.1	663.4	786.7	907.9	1004.7	1070.4	1113.7	1301.8	1723.8	2575.1
25°	473.8	595.3	725.3	874.1	1001.5	1091.2	1158.5	1201.4	1621.9	2483.8	3074.2
22.5°	514.4	643.0	795.4	966.3	1094.7	1170.9	1235.6	1468.5	2105.3	3253.9	3571.5
20°	554.1	700.2	871.4	1044.6	1182.1	1238.6	1306.5	1767.9	2727.1	3550.3	3898.2
17.5°	595.1	758.9	943.1	1104.7	1227.7	1298.8	1407.7	2058.3	3252.0	3809.8	4061.4
15°	636.3	814.2	1001.6	1157.6	1272.5	1357.9	1639.3	2474.3	3577.2	4095.0	4332.0
12.5°	676.6	862.7	1045.5	1203.0	1319.5	1413.9	1851.1	2904.4	3871.0	4375.0	4688.7
10°	715.3	904.6	1083.1	1246.9	1365.5	1468.3	2065.1	3324.9	4136.4	4557.6	4820.6
7.5°	749.2	938.8	1115.6	1288.8	1408.5	1521.6	2299.7	3603.8	4249.3	4673.6	4887.4
5°	778.1	965.7	1148.5	1335.7	1453.1	1570.7	2512.8	3787.8	4292.2	4745.2	4957.2
2.5°	802.4	987.5	1176.9	1379.6	1497.0	1612.3	2662.1	3904.4	4321.4	4772.6	5025.8
0°	822.4	1004.3	1200.4	1418.2	1537.0	1649.2	2773.3	3960.6	4331.0	4762.4	5090.2
-2.5°	835.3	1028.9	1243.9	1455.4	1569.8	1680.1	2768.7	3993.7	4342.8	4817.4	5339.2
-5°	844.0	1048.1	1280.5	1486.9	1599.5	1707.3	2721.3	3969.6	4369.1	4900.9	5501.8
-7.5°	848.3	1061.0	1308.5	1512.3	1627.6	1737.8	2662.8	3913.7	4503.3	5072.9	5604.0
-10°	849.7	1068.6	1314.2	1524.5	1653.5	1767.8	2566.4	3796.3	4609.3	5144.9	5633.6
-12.5°	855.4	1072.2	1311.2	1529.4	1675.6	1795.1	2447.2	3718.6	4751.9	5189.3	5622.8
-15°	854.9	1070.9	1302.4	1528.0	1702.7	1831.8	2288.7	3535.2	4838.7	5199.3	5593.9
-17.5°	847.7	1064.7	1289.0	1522.7	1728.4	1859.3	2065.2	3157.8	4590.6	5155.3	5559.7
-20°	833.5	1051.4	1270.2	1506.2	1742.7	1884.7	2038.6	2827.3	4079.8	5038.7	5495.2



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	813.0	1031.8	1247.2	1478.6	1735.9	1913.5	2057.1	2505.9	3575.3	4865.9	5390.7
-25°	789.2	1004.5	1220.5	1463.6	1725.9	1941.0	2061.0	2207.2	3136.5	4293.8	5210.6
-27.5°	762.8	970.8	1191.2	1431.9	1710.3	1936.1	2059.5	2197.4	2669.1	3590.0	4923.9
-30°	732.2	932.9	1150.7	1385.9	1655.2	1884.0	2054.5	2168.7	2312.8	3038.1	4175.6
-32.5°	698.3	890.1	1102.5	1333.7	1584.2	1825.8	2026.1	2145.7	2272.1	2520.4	3437.4
-35°	665.1	848.7	1049.4	1273.6	1511.8	1746.8	1951.8	2121.5	2227.6	2367.2	2785.8
-37.5°	634.3	802.3	991.2	1208.0	1438.4	1648.6	1870.4	2054.3	2199.6	2300.8	2470.1
-40°	598.6	750.4	931.5	1134.4	1341.5	1541.6	1752.5	1959.3	2137.8	2271.1	2372.1
-42.5°	558.5	703.7	867.4	1047.7	1239.0	1429.5	1628.9	1833.8	2029.8	2205.5	2330.6
-45°	515.1	651.4	798.8	962.4	1132.2	1313.8	1503.6	1697.5	1892.1	2085.9	2240.1
-47.5°	464.7	593.9	733.7	871.4	1028.0	1194.7	1371.2	1553.4	1733.4	1920.5	2098.0
-50°	412.4	531.8	659.5	786.5	922.4	1073.2	1234.7	1405.0	1575.6	1748.4	1919.5
-52.5°	365.0	464.1	581.8	701.6	821.6	950.5	1096.8	1252.0	1413.0	1576.0	1725.7
-55°	314.3	403.5	500.3	612.4	725.0	837.1	956.0	1096.5	1242.4	1393.5	1527.8
-57.5°	275.3	342.5	425.9	518.6	623.4	729.5	833.8	939.3	1069.6	1204.0	1316.9
-60°	243.0	291.4	355.3	433.7	517.1	615.1	713.2	811.3	912.0	1008.2	1112.5
-62.5°	213.3	252.8	297.8	352.5	425.0	500.6	587.7	678.1	770.3	853.2	929.9
-65°	200.6	219.5	253.2	294.1	335.7	400.4	470.1	541.2	621.2	694.7	763.8
-67.5°	187.1	204.6	222.1	243.7	281.0	319.2	357.7	420.5	483.2	540.1	596.4
-70°	176.2	189.7	205.2	221.0	237.1	259.1	293.4	328.9	364.4	403.7	451.3
-72.5°	165.6	177.7	190.1	202.4	216.8	231.9	247.6	263.7	288.3	318.5	345.7
-75°	155.4	165.4	176.6	187.9	199.3	210.8	223.6	238.4	253.1	267.8	281.6
-77.5°	145.6	154.8	164.0	173.6	183.4	193.6	204.9	216.6	228.7	240.8	251.4
-80°	135.3	144.0	151.9	160.0	168.8	177.6	187.0	196.6	207.3	218.3	227.9
-82.5°	124.2	131.3	138.6	145.8	153.9	162.0	170.0	178.1	186.8	195.8	203.7
-85°	113.5	118.5	124.8	131.1	138.3	145.5	152.3	159.2	166.8	174.3	180.6
-87.5°	106.1	111.1	116.0	120.9	126.6	132.4	138.0	143.6	149.9	156.2	161.0
-90°	4.9	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°	152.5	155.8	159.0	160.7	162.3	165.6	168.8	173.7	178.6	184.1	189.5
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°	4.7	4.6	4.4	4.4	4.4	4.3	4.1	3.8	3.3	3.8	4.3
77.5°	5.4	5.1	4.8	4.7	4.5	4.1	3.7	3.4	3.3	3.4	3.4
75°	5.6	5.7	6.5	6.6	6.5	5.9	4.9	4.8	5.0	4.7	4.4
72.5°	11.1	11.7	12.0	13.0	13.6	14.2	15.4	17.6	20.0	22.3	24.5
70°	22.3	25.4	26.1	26.1	26.1	26.9	28.0	29.4	31.1	32.5	33.8
67.5°	34.3	37.0	37.4	38.0	36.9	35.4	34.0	34.0	35.9	38.2	40.8
65°	41.9	39.1	37.0	36.5	35.8	34.0	31.2	29.2	28.7	28.2	28.3
62.5°	37.6	32.2	30.2	29.8	28.1	26.0	22.2	19.1	17.5	16.6	16.6
60°	32.6	26.2	22.3	20.5	17.9	15.2	12.9	10.5	9.8	9.5	9.6
57.5°	26.8	20.0	15.3	14.7	12.6	10.0	8.2	6.5	6.2	6.2	6.6
55°	24.6	20.9	17.5	16.4	14.0	12.8	11.1	8.8	8.2	8.8	9.7
52.5°	31.8	29.9	28.3	28.4	31.3	29.1	21.7	30.4	35.3	35.3	33.8
50°	70.0	63.0	89.8	86.4	108.0	122.4	111.2	124.7	144.2	158.0	167.5
47.5°	199.7	207.0	239.1	267.0	289.4	314.6	340.1	355.5	359.4	384.9	402.3
45°	402.1	426.2	461.9	480.0	515.3	557.1	586.5	599.7	676.6	772.4	834.3
42.5°	583.5	602.1	630.2	694.0	758.8	901.9	1066.2	1071.9	1220.4	1351.8	1486.3
40°	710.4	745.4	845.5	996.8	1346.2	1618.8	1812.8	2003.0	2034.7	1972.9	2006.6
37.5°	874.7	999.8	1253.3	1661.7	1964.1	2237.9	2348.1	2362.4	2400.8	2424.9	2386.7
35°	1184.3	1601.4	1811.6	2158.8	2378.7	2432.1	2465.4	2498.3	2529.7	2551.2	2574.6
32.5°	1862.5	2379.0	2406.8	2496.0	2537.1	2584.5	2619.8	2640.4	2654.7	2673.5	2737.3
30°	2591.4	2711.7	2721.6	2714.6	2728.7	2760.6	2783.7	2821.4	2858.9	2902.1	3043.4
27.5°	2931.8	3023.9	2995.2	2946.0	2921.6	2947.0	3010.0	3068.5	3177.6	3292.3	3495.2
25°	3308.5	3369.6	3334.5	3247.2	3192.5	3228.6	3323.2	3434.8	3643.3	3827.0	4200.5
22.5°	3712.0	3825.5	3788.8	3762.8	3647.5	3664.8	3739.4	3991.4	4512.8	5338.2	7052.2
20°	4024.9	4163.6	4181.2	4181.8	4157.5	4164.7	4338.0	5150.7	6675.0	11465.2	15711.7
17.5°	4257.0	4338.3	4436.0	4476.1	4523.6	4662.1	5586.3	8397.8	14980.9	23791.3	30537.9
15°	4557.6	4661.7	4767.6	4834.6	4941.9	5704.2	8067.4	16702.2	28673.3	43626.8	62740.2
12.5°	4798.4	4926.7	5010.7	5063.8	5311.3	7316.6	15538.8	27969.4	46647.0	69851.3	104273.9
10°	4931.6	5031.6	5146.2	5330.2	6339.3	10612.8	21912.9	39304.2	68015.8	109812.5	155660.2
7.5°	4997.9	5127.3	5319.0	5598.5	7503.2	15492.9	30485.0	55477.8	94693.8	146739.0	210620.8
5°	5075.1	5314.4	5542.6	5862.6	8407.0	19016.4	37298.9	69272.2	117954.1	181621.3	260515.7
2.5°	5199.8	5559.8	5706.8	6014.2	8951.5	21284.7	41362.2	80061.3	135323.2	210086.4	298664.2
0°	5396.3	5695.9	5784.1	6093.5	9499.7	22406.6	43748.9	83019.8	143060.1	221171.6	313689.0
-2.5°	5618.5	5805.5	5903.3	6248.1	9774.8	23551.1	45626.8	85007.7	141217.6	217478.9	308044.4
-5°	5763.3	5911.9	6006.7	6343.7	9744.7	22406.6	43528.6	79163.1	130444.9	198654.4	279626.2
-7.5°	5862.0	6016.7	6115.9	6424.7	9168.7	19363.9	38446.5	68237.5	110855.6	166796.4	236735.6
-10°	5958.4	6127.3	6257.2	6501.2	8114.9	14782.3	30176.4	51480.2	86696.1	131205.4	183497.0
-12.5°	6045.3	6254.0	6421.2	6533.5	7125.2	11243.6	22176.0	39376.7	62403.0	95628.6	133894.0
-15°	6089.2	6338.9	6526.1	6649.9	6993.0	8890.4	14360.1	26056.3	43567.2	64176.3	89075.8
-17.5°	6013.5	6385.8	6565.9	6702.2	6815.0	7302.7	10129.4	15994.3	26931.4	40432.0	52595.3
-20°	5893.0	6390.9	6595.0	6778.5	6906.7	7039.6	7399.7	10185.7	14635.2	22917.7	31024.5



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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°	5791.1	6254.1	6679.9	6878.2	7025.8	7035.5	7046.6	7382.0	9119.3	11909.8	16198.3
-25°	5720.4	6158.6	6654.0	6961.2	7063.4	7067.1	7011.3	6949.0	7146.0	7344.0	8911.0
-27.5°	5600.9	6076.2	6541.8	6916.5	7067.9	7062.8	7020.5	6978.8	6910.6	6866.1	7035.1
-30°	5454.7	5932.3	6365.8	6742.6	6967.1	7036.1	7007.2	6976.3	6955.2	6940.3	6910.1
-32.5°	4675.6	5755.5	6120.7	6462.6	6783.0	6923.3	6985.8	6971.3	6952.4	6944.2	6949.6
-35°	3819.2	4934.1	5882.3	6126.0	6404.1	6683.3	6880.4	6924.9	6944.6	6941.2	6949.8
-37.5°	2928.4	3932.9	4864.5	5643.2	5977.9	6268.3	6554.7	6744.4	6858.2	6877.9	6904.7
-40°	2523.8	2807.8	3690.4	4473.1	5124.2	5723.7	6027.0	6354.9	6610.7	6713.7	6767.7
-42.5°	2416.9	2529.7	2645.6	3219.6	3893.8	4465.3	5031.5	5594.3	6061.4	6325.6	6497.6
-45°	2370.2	2433.2	2500.0	2592.5	2675.2	3157.9	3677.8	4226.1	4840.1	5298.6	5725.8
-47.5°	2234.5	2361.3	2425.2	2464.3	2493.5	2557.2	2614.2	2768.7	3279.6	3681.4	4127.1
-50°	2055.0	2183.9	2288.3	2381.2	2413.0	2427.7	2444.8	2496.2	2577.7	2637.1	2726.8
-52.5°	1847.3	1968.1	2084.5	2184.0	2255.0	2316.2	2374.6	2415.1	2448.2	2482.5	2515.0
-55°	1648.7	1751.6	1851.3	1944.7	2029.4	2100.0	2169.5	2235.6	2297.6	2355.9	2410.3
-57.5°	1430.8	1533.6	1625.4	1709.1	1781.3	1840.2	1908.8	1981.6	2049.9	2110.4	2169.5
-60°	1210.9	1304.5	1392.2	1471.5	1537.6	1589.6	1656.2	1721.5	1783.9	1840.3	1889.8
-62.5°	1004.2	1084.1	1159.7	1229.6	1292.2	1348.0	1403.9	1459.8	1518.8	1571.6	1618.2
-65°	829.5	893.3	946.9	996.9	1038.9	1089.3	1143.1	1193.2	1245.2	1294.0	1338.6
-67.5°	654.0	708.0	753.1	796.2	831.4	866.8	906.8	945.0	981.6	1019.6	1056.7
-70°	493.5	531.6	560.0	589.6	624.2	656.5	688.8	721.2	751.7	785.1	819.5
-72.5°	368.3	386.8	405.5	429.5	450.2	473.6	496.8	521.6	546.8	571.1	593.7
-75°	294.8	306.6	320.7	332.4	341.3	352.8	365.6	381.3	397.0	412.7	427.5
-77.5°	262.2	270.4	276.9	281.9	286.3	292.0	297.9	308.9	320.8	333.9	347.1
-80°	237.1	242.3	246.8	250.5	253.8	258.6	263.5	273.0	283.2	292.9	302.4
-82.5°	211.5	215.9	219.6	222.8	225.8	230.4	235.0	242.6	250.3	259.8	269.4
-85°	186.7	190.5	194.1	197.0	199.8	203.4	207.0	214.1	221.2	228.9	236.5
-87.5°	165.8	169.0	172.2	174.6	177.1	180.1	183.2	188.8	194.4	200.6	206.7
-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°	190.1	190.6	190.6	190.6	190.6	190.6	190.1	189.5	184.1	178.6	173.7
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	4.7	5.0	4.8
72.5°	26.6	28.6	29.7	30.5	29.7	28.6	26.6	24.5	22.3	20.0	17.6
70°	34.4	34.7	34.9	34.9	34.9	34.7	34.4	33.8	32.5	31.1	29.4
67.5°	42.3	43.2	43.5	43.6	43.5	43.2	42.3	40.8	38.2	35.9	34.0
65°	27.0	25.0	23.2	21.8	23.2	25.0	27.0	28.3	28.2	28.7	29.2
62.5°	16.2	15.6	15.3	15.2	15.3	15.6	16.2	16.6	16.6	17.5	19.1
60°	9.7	9.9	9.4	8.7	9.4	9.9	9.7	9.6	9.5	9.8	10.5
57.5°	7.0	7.5	8.1	8.7	8.1	7.5	7.0	6.6	6.2	6.2	6.5
55°	10.5	11.5	12.4	13.1	12.4	11.5	10.5	9.7	8.8	8.2	8.8
52.5°	30.5	27.3	26.3	27.2	26.3	27.3	30.5	33.8	35.3	35.3	30.4
50°	172.4	175.9	180.2	185.2	180.2	175.9	172.4	167.5	158.0	144.2	124.7
47.5°	407.3	399.6	392.4	390.0	392.4	399.6	407.3	402.3	384.9	359.4	355.5
45°	772.2	715.3	686.4	703.7	686.4	715.3	772.2	834.3	772.4	676.6	599.7
42.5°	1558.5	1642.7	1708.4	1739.6	1708.4	1642.7	1558.5	1486.3	1351.8	1220.4	1071.9
40°	1953.9	1922.3	1939.2	1965.1	1939.2	1922.3	1953.9	2006.6	1972.9	2034.7	2003.0
37.5°	2405.4	2415.8	2339.9	2215.6	2339.9	2415.8	2405.4	2386.7	2424.9	2400.8	2362.4
35°	2624.3	2759.7	3013.1	3074.0	3013.1	2759.7	2624.3	2574.6	2551.2	2529.7	2498.3
32.5°	2898.4	3039.0	3082.1	3099.0	3082.1	3039.0	2898.4	2737.3	2673.5	2654.7	2640.4
30°	3226.0	3289.5	3273.5	3297.3	3273.5	3289.5	3226.0	3043.4	2902.1	2858.9	2821.4
27.5°	3584.8	3622.0	3609.9	3641.5	3609.9	3622.0	3584.8	3495.2	3292.3	3177.6	3068.5
25°	4511.3	4804.0	4788.7	4857.1	4788.7	4804.0	4511.3	4200.5	3827.0	3643.3	3434.8
22.5°	9138.8	10173.5	10793.1	11392.8	10793.1	10173.5	9138.8	7052.2	5338.2	4512.8	3991.4
20°	20419.3	23401.3	24050.4	23813.9	24050.4	23401.3	20419.3	15711.7	11465.2	6675.0	5150.7
17.5°	43830.7	55728.7	62117.2	62827.8	62117.2	55728.7	43830.7	30537.9	23791.3	14980.9	8397.8
15°	82486.5	103281.6	115088.6	116329.1	115088.6	103281.6	82486.5	62740.2	43626.8	28673.3	16702.2
12.5°	134845.6	167961.8	192273.0	194985.3	192273.0	167961.8	134845.6	104273.9	69851.3	46647.0	27969.4
10°	206565.4	251338.3	286743.1	295368.3	286743.1	251338.3	206565.4	155660.2	109812.5	68015.8	39304.2
7.5°	278148.9	329244.0	370913.0	380717.1	370913.0	329244.0	278148.9	210620.8	146739.0	94693.8	55477.8
5°	334108.2	399483.2	432735.8	443722.4	432735.8	399483.2	334108.2	260515.7	181621.3	117954.1	69272.2
2.5°	376762.9	438492.6	477530.3	493546.9	477530.3	438492.6	376762.9	298664.2	210086.4	135323.2	80061.3
0°	393228.5	453106.6	502818.9	533732.2	502818.9	453106.6	393228.5	313689.0	221171.6	143060.1	83019.8
-2.5°	386774.3	444426.4	486675.8	506728.8	486675.8	444426.4	386774.3	308044.4	217478.9	141217.6	85007.7
-5°	354145.8	412327.2	444993.4	455340.7	444993.4	412327.2	354145.8	279626.2	198654.4	130444.9	79163.1
-7.5°	299467.7	350680.3	389413.6	396356.5	389413.6	350680.3	299467.7	236735.6	166796.4	110855.6	68237.5
-10°	237346.3	281679.8	311228.1	316817.4	311228.1	281679.8	237346.3	183497.0	131205.4	86696.1	51480.2
-12.5°	168243.1	207185.4	230547.2	234858.0	230547.2	207185.4	168243.1	133894.0	95628.6	62403.0	39376.7
-15°	114329.6	138586.0	152745.4	154175.2	152745.4	138586.0	114329.6	89075.8	64176.3	43567.2	26056.3
-17.5°	71536.1	85964.4	94789.4	94871.3	94789.4	85964.4	71536.1	52595.3	40432.0	26931.4	15994.3
-20°	41415.2	48300.3	53237.7	53217.0	53237.7	48300.3	41415.2	31024.5	22917.7	14635.2	10185.7



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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°	21577.9	25670.0	28647.1	28510.9	28647.1	25670.0	21577.9	16198.3	11909.8	9119.3	7382.0
-25°	10595.7	12162.3	13205.1	13123.7	13205.1	12162.3	10595.7	8911.0	7344.0	7146.0	6949.0
-27.5°	7180.7	7353.0	7472.0	7484.5	7472.0	7353.0	7180.7	7035.1	6866.1	6910.6	6978.8
-30°	6898.4	6937.8	6979.3	6989.9	6979.3	6937.8	6898.4	6910.1	6940.3	6955.2	6976.3
-32.5°	6966.6	6997.3	7042.8	7071.6	7042.8	6997.3	6966.6	6949.6	6944.2	6952.4	6971.3
-35°	6971.5	7007.2	7059.9	7083.6	7059.9	7007.2	6971.5	6949.8	6941.2	6944.6	6924.9
-37.5°	6939.1	6982.8	7028.0	7048.8	7028.0	6982.8	6939.1	6904.7	6877.9	6858.2	6744.4
-40°	6815.9	6860.5	6893.6	6896.3	6893.6	6860.5	6815.9	6767.7	6713.7	6610.7	6354.9
-42.5°	6612.0	6667.3	6692.8	6688.2	6692.8	6667.3	6612.0	6497.6	6325.6	6061.4	5594.3
-45°	6130.8	6326.6	6422.8	6446.4	6422.8	6326.6	6130.8	5725.8	5298.6	4840.1	4226.1
-47.5°	4643.6	4930.8	5115.0	5188.3	5115.0	4930.8	4643.6	4127.1	3681.4	3279.6	2768.7
-50°	2844.2	2870.8	2888.4	2897.5	2888.4	2870.8	2844.2	2726.8	2637.1	2577.7	2496.2
-52.5°	2542.0	2549.7	2553.8	2554.4	2553.8	2549.7	2542.0	2515.0	2482.5	2448.2	2415.1
-55°	2449.6	2464.9	2474.6	2477.0	2474.6	2464.9	2449.6	2410.3	2355.9	2297.6	2235.6
-57.5°	2208.4	2217.2	2227.0	2233.0	2227.0	2217.2	2208.4	2169.5	2110.4	2049.9	1981.6
-60°	1919.5	1927.5	1929.1	1923.7	1929.1	1927.5	1919.5	1889.8	1840.3	1783.9	1721.5
-62.5°	1643.6	1651.0	1658.4	1661.2	1658.4	1651.0	1643.6	1618.2	1571.6	1518.8	1459.8
-65°	1359.4	1363.1	1364.8	1361.6	1364.8	1363.1	1359.4	1338.6	1294.0	1245.2	1193.2
-67.5°	1074.2	1081.6	1092.0	1099.1	1092.0	1081.6	1074.2	1056.7	1019.6	981.6	945.0
-70°	827.4	824.1	831.2	836.6	831.2	824.1	827.4	819.5	785.1	751.7	721.2
-72.5°	596.6	593.0	590.5	586.0	590.5	593.0	596.6	593.7	571.1	546.8	521.6
-75°	426.7	422.3	421.7	420.5	421.7	422.3	426.7	427.5	412.7	397.0	381.3
-77.5°	347.3	345.7	343.5	340.9	343.5	345.7	347.3	347.1	333.9	320.8	308.9
-80°	303.3	303.4	302.1	300.6	302.1	303.4	303.3	302.4	292.9	283.2	273.0
-82.5°	269.8	269.7	269.0	268.0	269.0	269.7	269.8	269.4	259.8	250.3	242.6
-85°	237.0	237.3	236.3	235.3	236.3	237.3	237.0	236.5	228.9	221.2	214.1
-87.5°	207.4	208.0	207.5	207.0	207.5	208.0	207.4	206.7	200.6	194.4	188.8
-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°	168.8	165.6	162.3	160.7	159.0	155.8	152.5	148.2	143.8	138.4	132.9
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	4.7	5.1	5.4	5.3	5.2
77.5°	3.7	4.1	4.5	4.7	4.8	5.1	5.4	5.4	5.5	5.9	6.0
75°	4.9	5.9	6.5	6.6	6.5	5.7	5.6	6.0	6.1	6.3	6.5
72.5°	15.4	14.2	13.6	13.0	12.0	11.7	11.1	10.3	9.1	7.5	6.5
70°	28.0	26.9	26.1	26.1	26.1	25.4	22.3	18.7	15.8	13.7	11.0
67.5°	34.0	35.4	36.9	38.0	37.4	37.0	34.3	30.4	29.1	26.5	19.3
65°	31.2	34.0	35.8	36.5	37.0	39.1	41.9	41.0	42.7	40.9	32.0
62.5°	22.2	26.0	28.1	29.8	30.2	32.2	37.6	43.4	52.0	54.4	44.2
60°	12.9	15.2	17.9	20.5	22.3	26.2	32.6	42.1	54.3	53.5	49.2
57.5°	8.2	10.0	12.6	14.7	15.3	20.0	26.8	38.7	50.9	50.5	44.4
55°	11.1	12.8	14.0	16.4	17.5	20.9	24.6	34.4	45.9	49.7	47.6
52.5°	21.7	29.1	31.3	28.4	28.3	29.9	31.8	39.7	46.7	52.3	54.3
50°	111.2	122.4	108.0	86.4	89.8	63.0	70.0	68.2	65.3	68.3	66.3
47.5°	340.1	314.6	289.4	267.0	239.1	207.0	199.7	154.3	149.9	111.5	111.1
45°	586.5	557.1	515.3	480.0	461.9	426.2	402.1	367.5	298.8	266.8	185.3
42.5°	1066.2	901.9	758.8	694.0	630.2	602.1	583.5	560.9	524.2	459.5	384.3
40°	1812.8	1618.8	1346.2	996.8	845.5	745.4	710.4	702.7	684.2	649.3	569.8
37.5°	2348.1	2237.9	1964.1	1661.7	1253.3	999.8	874.7	806.7	802.4	784.0	731.2
35°	2465.4	2432.1	2378.7	2158.8	1811.6	1601.4	1184.3	980.3	898.6	883.9	866.2
32.5°	2619.8	2584.5	2537.1	2496.0	2406.8	2379.0	1862.5	1294.6	1028.4	974.4	946.1
30°	2783.7	2760.6	2728.7	2714.6	2721.6	2711.7	2591.4	1869.6	1316.7	1062.1	1029.8
27.5°	3010.0	2947.0	2921.6	2946.0	2995.2	3023.9	2931.8	2575.1	1723.8	1301.8	1113.7
25°	3323.2	3228.6	3192.5	3247.2	3334.5	3369.6	3308.5	3074.2	2483.8	1621.9	1201.4
22.5°	3739.4	3664.8	3647.5	3762.8	3788.8	3825.5	3712.0	3571.5	3253.9	2105.3	1468.5
20°	4338.0	4164.7	4157.5	4181.8	4181.2	4163.6	4024.9	3898.2	3550.3	2727.1	1767.9
17.5°	5586.3	4662.1	4523.6	4476.1	4436.0	4338.3	4257.0	4061.4	3809.8	3252.0	2058.3
15°	8067.4	5704.2	4941.9	4834.6	4767.6	4661.7	4557.6	4332.0	4095.0	3577.2	2474.3
12.5°	15538.8	7316.6	5311.3	5063.8	5010.7	4926.7	4798.4	4688.7	4375.0	3871.0	2904.4
10°	21912.9	10612.8	6339.3	5330.2	5146.2	5031.6	4931.6	4820.6	4557.6	4136.4	3324.9
7.5°	30485.0	15492.9	7503.2	5598.5	5319.0	5127.3	4997.9	4887.4	4673.6	4249.3	3603.8
5°	37298.9	19016.4	8407.0	5862.6	5542.6	5314.4	5075.1	4957.2	4745.2	4292.2	3787.8
2.5°	41362.2	21284.7	8951.5	6014.2	5706.8	5559.8	5199.8	5025.8	4772.6	4321.4	3904.4
0°	43748.9	22406.6	9499.7	6093.5	5784.1	5695.9	5396.3	5090.2	4762.4	4331.0	3960.6
-2.5°	45626.8	23551.1	9774.8	6248.1	5903.3	5805.5	5618.5	5339.2	4817.4	4342.8	3993.7
-5°	43528.6	22406.6	9744.7	6343.7	6006.7	5911.9	5763.3	5501.8	4900.9	4369.1	3969.6
-7.5°	38446.5	19363.9	9168.7	6424.7	6115.9	6016.7	5862.0	5604.0	5072.9	4503.3	3913.7
-10°	30176.4	14782.3	8114.9	6501.2	6257.2	6127.3	5958.4	5633.6	5144.9	4609.3	3796.3
-12.5°	22176.0	11243.6	7125.2	6533.5	6421.2	6254.0	6045.3	5622.8	5189.3	4751.9	3718.6
-15°	14360.1	8890.4	6993.0	6649.9	6526.1	6338.9	6089.2	5593.9	5199.3	4838.7	3535.2
-17.5°	10129.4	7302.7	6815.0	6702.2	6565.9	6385.8	6013.5	5559.7	5155.3	4590.6	3157.8
-20°	7399.7	7039.6	6906.7	6778.5	6595.0	6390.9	5893.0	5495.2	5038.7	4079.8	2827.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7046.6	7035.5	7025.8	6878.2	6679.9	6254.1	5791.1	5390.7	4865.9	3575.3	2505.9
-25°	7011.3	7067.1	7063.4	6961.2	6654.0	6158.6	5720.4	5210.6	4293.8	3136.5	2207.2
-27.5°	7020.5	7062.8	7067.9	6916.5	6541.8	6076.2	5600.9	4923.9	3590.0	2669.1	2197.4
-30°	7007.2	7036.1	6967.1	6742.6	6365.8	5932.3	5454.7	4175.6	3038.1	2312.8	2168.7
-32.5°	6985.8	6923.3	6783.0	6462.6	6120.7	5755.5	4675.6	3437.4	2520.4	2272.1	2145.7
-35°	6880.4	6683.3	6404.1	6126.0	5882.3	4934.1	3819.2	2785.8	2367.2	2227.6	2121.5
-37.5°	6554.7	6268.3	5977.9	5643.2	4864.5	3932.9	2928.4	2470.1	2300.8	2199.6	2054.3
-40°	6027.0	5723.7	5124.2	4473.1	3690.4	2807.8	2523.8	2372.1	2271.1	2137.8	1959.3
-42.5°	5031.5	4465.3	3893.8	3219.6	2645.6	2529.7	2416.9	2330.6	2205.5	2029.8	1833.8
-45°	3677.8	3157.9	2675.2	2592.5	2500.0	2433.2	2370.2	2240.1	2085.9	1892.1	1697.5
-47.5°	2614.2	2557.2	2493.5	2464.3	2425.2	2361.3	2234.5	2098.0	1920.5	1733.4	1553.4
-50°	2444.8	2427.7	2413.0	2381.2	2288.3	2183.9	2055.0	1919.5	1748.4	1575.6	1405.0
-52.5°	2374.6	2316.2	2255.0	2184.0	2084.5	1968.1	1847.3	1725.7	1576.0	1413.0	1252.0
-55°	2169.5	2100.0	2029.4	1944.7	1851.3	1751.6	1648.7	1527.8	1393.5	1242.4	1096.5
-57.5°	1908.8	1840.2	1781.3	1709.1	1625.4	1533.6	1430.8	1316.9	1204.0	1069.6	939.3
-60°	1656.2	1589.6	1537.6	1471.5	1392.2	1304.5	1210.9	1112.5	1008.2	912.0	811.3
-62.5°	1403.9	1348.0	1292.2	1229.6	1159.7	1084.1	1004.2	929.9	853.2	770.3	678.1
-65°	1143.1	1089.3	1038.9	996.9	946.9	893.3	829.5	763.8	694.7	621.2	541.2
-67.5°	906.8	866.8	831.4	796.2	753.1	708.0	654.0	596.4	540.1	483.2	420.5
-70°	688.8	656.5	624.2	589.6	560.0	531.6	493.5	451.3	403.7	364.4	328.9
-72.5°	496.8	473.6	450.2	429.5	405.5	386.8	368.3	345.7	318.5	288.3	263.7
-75°	365.6	352.8	341.3	332.4	320.7	306.6	294.8	281.6	267.8	253.1	238.4
-77.5°	297.9	292.0	286.3	281.9	276.9	270.4	262.2	251.4	240.8	228.7	216.6
-80°	263.5	258.6	253.8	250.5	246.8	242.3	237.1	227.9	218.3	207.3	196.6
-82.5°	235.0	230.4	225.8	222.8	219.6	215.9	211.5	203.7	195.8	186.8	178.1
-85°	207.0	203.4	199.8	197.0	194.1	190.5	186.7	180.6	174.3	166.8	159.2
-87.5°	183.2	180.1	177.1	174.6	172.2	169.0	165.8	161.0	156.2	149.9	143.6
-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°	127.5	122.0	117.1	112.2	107.9	103.5	98.6	93.7	87.2	80.6	72.5
87.5°	4.4	4.4	4.7	5.0	4.9	4.9	5.1	5.4	5.4	5.4	5.6
85°	4.6	4.7	5.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.7
82.5°	5.0	5.3	5.3	5.4	5.8	5.9	5.8	5.7	5.6	5.5	5.9
80°	5.3	5.5	5.7	5.8	6.1	6.5	6.3	6.2	6.3	6.2	6.3
77.5°	5.8	5.7	6.1	6.4	6.4	6.6	6.7	6.7	7.0	7.0	6.8
75°	6.5	6.4	6.4	6.6	6.6	6.7	7.0	7.2	7.5	7.6	7.3
72.5°	6.5	6.6	6.7	6.8	7.1	7.3	7.5	7.7	8.0	8.1	7.7
70°	8.6	7.3	7.2	7.4	7.7	7.9	8.1	8.3	8.4	8.5	8.3
67.5°	12.1	10.1	8.9	8.3	8.3	8.7	8.7	9.0	9.2	9.0	8.8
65°	23.5	16.3	10.8	10.2	9.5	9.6	9.7	10.0	10.1	10.2	9.4
62.5°	34.5	25.4	18.7	13.7	11.8	12.1	11.0	11.7	11.2	11.4	10.6
60°	45.1	35.0	27.4	21.7	17.5	15.8	15.0	13.7	13.5	12.8	12.1
57.5°	44.3	42.8	38.5	31.0	26.6	22.5	20.3	18.2	16.2	15.5	13.8
55°	43.6	43.6	48.3	43.5	38.2	32.0	28.2	24.5	20.1	18.6	15.8
52.5°	50.9	51.9	55.7	58.3	54.3	44.6	40.5	31.3	27.8	22.1	19.2
50°	63.2	68.7	69.5	75.6	72.4	65.9	54.2	44.8	36.0	27.0	22.9
47.5°	95.5	100.9	95.6	100.5	95.8	90.5	76.3	60.8	45.0	35.4	26.8
45°	183.3	153.0	148.1	139.6	128.5	122.4	103.2	78.4	61.2	44.7	30.8
42.5°	305.6	262.7	238.3	186.9	181.4	159.7	134.8	106.6	78.5	54.5	37.6
40°	477.5	413.6	356.1	297.8	247.1	201.8	175.2	138.6	97.0	67.2	46.5
37.5°	644.4	568.4	502.4	415.7	331.0	270.6	219.5	172.8	121.0	85.2	55.8
35°	783.2	712.2	623.7	530.7	441.7	340.7	267.1	211.2	153.0	104.2	65.4
32.5°	897.1	825.3	723.8	629.8	529.9	410.7	324.9	252.0	185.5	124.0	75.3
30°	982.2	913.8	817.3	707.6	601.5	483.5	382.9	290.8	218.3	144.4	86.8
27.5°	1070.4	1004.7	907.9	786.7	663.4	546.1	430.6	327.5	251.4	165.5	101.9
25°	1158.5	1091.2	1001.5	874.1	725.3	595.3	473.8	362.4	282.8	187.6	116.2
22.5°	1235.6	1170.9	1094.7	966.3	795.4	643.0	514.4	400.3	304.1	207.9	129.7
20°	1306.5	1238.6	1182.1	1044.6	871.4	700.2	554.1	429.7	323.8	226.4	142.3
17.5°	1407.7	1298.8	1227.7	1104.7	943.1	758.9	595.1	457.5	341.9	243.2	153.9
15°	1639.3	1357.9	1272.5	1157.6	1001.6	814.2	636.3	484.3	358.4	258.2	164.2
12.5°	1851.1	1413.9	1319.5	1203.0	1045.5	862.7	676.6	509.5	373.1	272.4	172.9
10°	2065.1	1468.3	1365.5	1246.9	1083.1	904.6	715.3	535.7	391.3	285.9	180.7
7.5°	2299.7	1521.6	1408.5	1288.8	1115.6	938.8	749.2	565.4	409.1	298.0	187.4
5°	2512.8	1570.7	1453.1	1335.7	1148.5	965.7	778.1	592.7	425.3	308.6	193.2
2.5°	2662.1	1612.3	1497.0	1379.6	1176.9	987.5	802.4	617.2	439.7	317.5	197.9
0°	2773.3	1649.2	1537.0	1418.2	1200.4	1004.3	822.4	638.3	452.1	324.6	201.5
-2.5°	2768.7	1680.1	1569.8	1455.4	1243.9	1028.9	835.3	649.4	465.1	334.5	208.8
-5°	2721.3	1707.3	1599.5	1486.9	1280.5	1048.1	844.0	656.9	475.7	342.3	215.0
-7.5°	2662.8	1737.8	1627.6	1512.3	1308.5	1061.0	848.3	660.9	483.8	348.0	219.7
-10°	2566.4	1767.8	1653.5	1524.5	1314.2	1068.6	849.7	661.5	489.1	351.4	223.0
-12.5°	2447.2	1795.1	1675.6	1529.4	1311.2	1072.2	855.4	660.8	491.3	352.5	224.7
-15°	2288.7	1831.8	1702.7	1528.0	1302.4	1070.9	854.9	656.2	487.4	349.9	224.7
-17.5°	2065.2	1859.3	1728.4	1522.7	1289.0	1064.7	847.7	646.4	480.5	343.5	222.4
-20°	2038.6	1884.7	1742.7	1506.2	1270.2	1051.4	833.5	631.3	470.8	334.8	218.2



REPORT NUMBER: P701562 (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°	2057.1	1913.5	1735.9	1478.6	1247.2	1031.8	813.0	611.2	458.0	324.0	212.6
-25°	2061.0	1941.0	1725.9	1463.6	1220.5	1004.5	789.2	591.5	442.3	311.0	205.4
-27.5°	2059.5	1936.1	1710.3	1431.9	1191.2	970.8	762.8	577.6	429.4	295.9	196.9
-30°	2054.5	1884.0	1655.2	1385.9	1150.7	932.9	732.2	560.3	414.9	283.7	186.9
-32.5°	2026.1	1825.8	1584.2	1333.7	1102.5	890.1	698.3	539.1	397.2	273.6	180.6
-35°	1951.8	1746.8	1511.8	1273.6	1049.4	848.7	665.1	514.3	376.4	260.9	175.3
-37.5°	1870.4	1648.6	1438.4	1208.0	991.2	802.3	634.3	487.2	352.4	245.7	169.2
-40°	1752.5	1541.6	1341.5	1134.4	931.5	750.4	598.6	456.9	330.7	228.0	161.6
-42.5°	1628.9	1429.5	1239.0	1047.7	867.4	703.7	558.5	422.5	307.6	214.6	152.6
-45°	1503.6	1313.8	1132.2	962.4	798.8	651.4	515.1	385.4	281.3	202.5	145.6
-47.5°	1371.2	1194.7	1028.0	871.4	733.7	593.9	464.7	352.2	252.3	188.7	142.9
-50°	1234.7	1073.2	922.4	786.5	659.5	531.8	412.4	315.4	234.2	173.0	139.6
-52.5°	1096.8	950.5	821.6	701.6	581.8	464.1	365.0	276.3	214.4	164.8	135.7
-55°	956.0	837.1	725.0	612.4	500.3	403.5	314.3	250.0	192.8	159.6	131.6
-57.5°	833.8	729.5	623.4	518.6	425.9	342.5	275.3	222.4	182.4	153.8	129.0
-60°	713.2	615.1	517.1	433.7	355.3	291.4	243.0	199.8	174.9	147.9	125.9
-62.5°	587.7	500.6	425.0	352.5	297.8	252.8	213.3	189.5	166.3	143.6	122.5
-65°	470.1	400.4	335.7	294.1	253.2	219.5	200.6	178.6	159.2	138.8	118.7
-67.5°	357.7	319.2	281.0	243.7	222.1	204.6	187.1	169.6	152.4	133.6	114.6
-70°	293.4	259.1	237.1	221.0	205.2	189.7	176.2	161.2	145.1	128.5	110.3
-72.5°	247.6	231.9	216.8	202.4	190.1	177.7	165.6	152.6	138.3	123.1	105.7
-75°	223.6	210.8	199.3	187.9	176.6	165.4	155.4	144.3	131.2	117.4	100.9
-77.5°	204.9	193.6	183.4	173.6	164.0	154.8	145.6	135.7	123.7	111.2	95.9
-80°	187.0	177.6	168.8	160.0	151.9	144.0	135.3	126.5	115.7	104.7	90.6
-82.5°	170.0	162.0	153.9	145.8	138.6	131.3	124.2	116.9	107.4	97.9	85.6
-85°	152.3	145.5	138.3	131.1	124.8	118.5	113.5	108.2	100.3	92.2	81.3
-87.5°	138.0	132.4	126.6	120.9	116.0	111.1	106.1	101.0	93.8	86.5	77.0
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.9	5.4	5.4	5.4	5.4



REPORT NUMBER: P701562 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	64.3	53.4	42.5	29.9	17.4	11.4	5.4
87.5°	5.7	5.6	5.6	5.6	5.6	5.5	5.4
85°	6.0	5.9	5.8	5.8	5.8	5.7	5.4
82.5°	6.3	6.1	6.0	6.0	6.0	5.8	5.4
80°	6.5	6.3	6.2	6.3	6.2	6.0	5.4
77.5°	6.8	6.6	6.4	6.5	6.4	6.1	5.4
75°	7.1	7.0	6.6	6.7	6.6	6.3	5.4
72.5°	7.5	7.4	7.0	7.0	6.8	6.4	5.4
70°	7.9	7.8	7.4	7.2	7.0	6.6	5.4
67.5°	8.5	8.2	7.8	7.5	7.2	6.7	5.4
65°	9.2	8.7	8.2	7.8	7.4	6.8	5.4
62.5°	9.9	9.4	8.6	8.1	7.7	7.0	5.4
60°	10.6	10.0	9.0	8.4	7.9	7.1	5.4
57.5°	12.4	10.7	9.7	8.6	8.2	7.3	5.4
55°	14.4	11.4	10.5	8.9	8.5	7.4	5.4
52.5°	16.6	12.3	11.3	9.2	8.9	7.5	5.4
50°	18.9	14.6	12.2	9.5	9.2	7.7	5.4
47.5°	21.5	17.0	13.1	9.8	9.6	7.8	5.4
45°	25.0	19.5	14.1	10.6	10.1	8.0	5.4
42.5°	28.5	22.0	15.1	11.4	10.5	8.1	5.4
40°	32.3	24.7	16.7	12.4	11.0	8.2	5.4
37.5°	36.3	27.3	18.7	13.7	11.5	8.4	5.4
35°	40.5	30.5	20.8	15.1	12.0	8.5	5.4
32.5°	45.9	33.8	22.8	16.5	12.5	8.6	5.4
30°	54.0	37.1	24.9	17.9	13.1	8.7	5.4
27.5°	62.0	40.4	27.5	19.3	13.6	8.9	5.4
25°	69.9	43.7	30.2	20.8	14.2	9.0	5.4
22.5°	77.5	47.1	32.7	22.3	14.8	9.1	5.4
20°	85.0	50.6	35.2	23.8	15.4	9.2	5.4
17.5°	91.8	54.0	37.6	25.3	15.9	9.3	5.4
15°	98.0	57.2	39.9	26.8	16.5	9.4	5.4
12.5°	103.5	60.3	42.0	28.3	17.1	9.5	5.4
10°	108.6	63.2	44.1	29.7	17.6	9.5	5.4
7.5°	113.1	65.9	46.0	31.1	18.2	9.6	5.4
5°	117.0	68.5	47.9	32.4	18.7	9.7	5.4
2.5°	120.3	70.8	49.6	33.7	19.2	9.7	5.4
0°	123.1	73.0	51.2	34.9	19.6	9.8	5.4
-2.5°	127.0	76.0	53.4	36.4	20.6	10.2	5.4
-5°	130.4	78.8	55.5	37.9	21.6	10.6	5.4
-7.5°	133.1	81.4	57.5	39.2	22.6	11.0	5.4
-10°	135.1	83.7	59.3	40.5	23.5	11.4	5.4
-12.5°	136.5	85.8	61.0	41.6	24.3	11.8	5.4
-15°	137.2	87.6	62.4	42.7	25.1	12.2	5.4
-17.5°	137.1	89.1	63.7	43.6	25.8	12.5	5.4
-20°	136.6	90.3	64.9	44.5	26.5	12.8	5.4



REPORT NUMBER: P701562 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-2S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	135.5	91.2	65.8	45.2	27.1	13.1	5.4
-25°	133.7	92.0	66.6	45.8	27.6	13.4	5.4
-27.5°	131.0	92.6	67.1	46.3	28.0	13.6	5.4
-30°	127.5	92.9	67.5	46.8	28.4	13.9	5.4
-32.5°	123.2	92.9	68.0	47.1	28.7	14.1	5.4
-35°	121.5	92.6	68.4	47.3	28.9	14.2	5.4
-37.5°	120.8	92.3	68.5	47.3	29.1	14.4	5.4
-40°	119.7	92.2	68.5	47.3	29.1	14.5	5.4
-42.5°	118.3	91.9	68.4	47.2	29.1	14.6	5.4
-45°	116.4	91.4	68.4	47.2	29.0	14.7	5.4
-47.5°	114.1	90.7	68.2	47.0	28.8	14.7	5.4
-50°	112.6	89.8	67.7	46.8	28.6	14.7	5.4
-52.5°	111.0	88.6	67.1	46.5	28.2	14.7	5.4
-55°	109.1	87.4	66.4	46.0	27.8	14.6	5.4
-57.5°	106.9	85.9	65.4	45.4	27.3	14.5	5.4
-60°	104.5	84.3	64.3	44.7	26.8	14.4	5.4
-62.5°	101.9	82.3	63.1	43.8	26.3	14.3	5.4
-65°	99.0	80.1	61.7	42.8	25.8	14.2	5.4
-67.5°	95.8	77.8	60.1	41.7	25.2	14.0	5.4
-70°	92.3	75.2	58.3	40.5	24.6	13.8	5.4
-72.5°	88.8	72.5	56.4	39.5	23.8	13.5	5.4
-75°	85.0	69.6	54.3	38.4	23.1	13.3	5.4
-77.5°	81.1	66.5	52.6	37.2	22.2	13.0	5.4
-80°	76.9	63.8	50.8	35.9	21.3	12.7	5.4
-82.5°	73.8	61.4	48.9	34.5	20.4	12.4	5.4
-85°	70.8	58.8	46.9	33.1	19.4	12.1	5.4
-87.5°	67.6	56.2	44.7	31.6	18.4	11.8	5.4
-90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4

(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

