

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: P701702 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-1S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701702 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-70-1S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

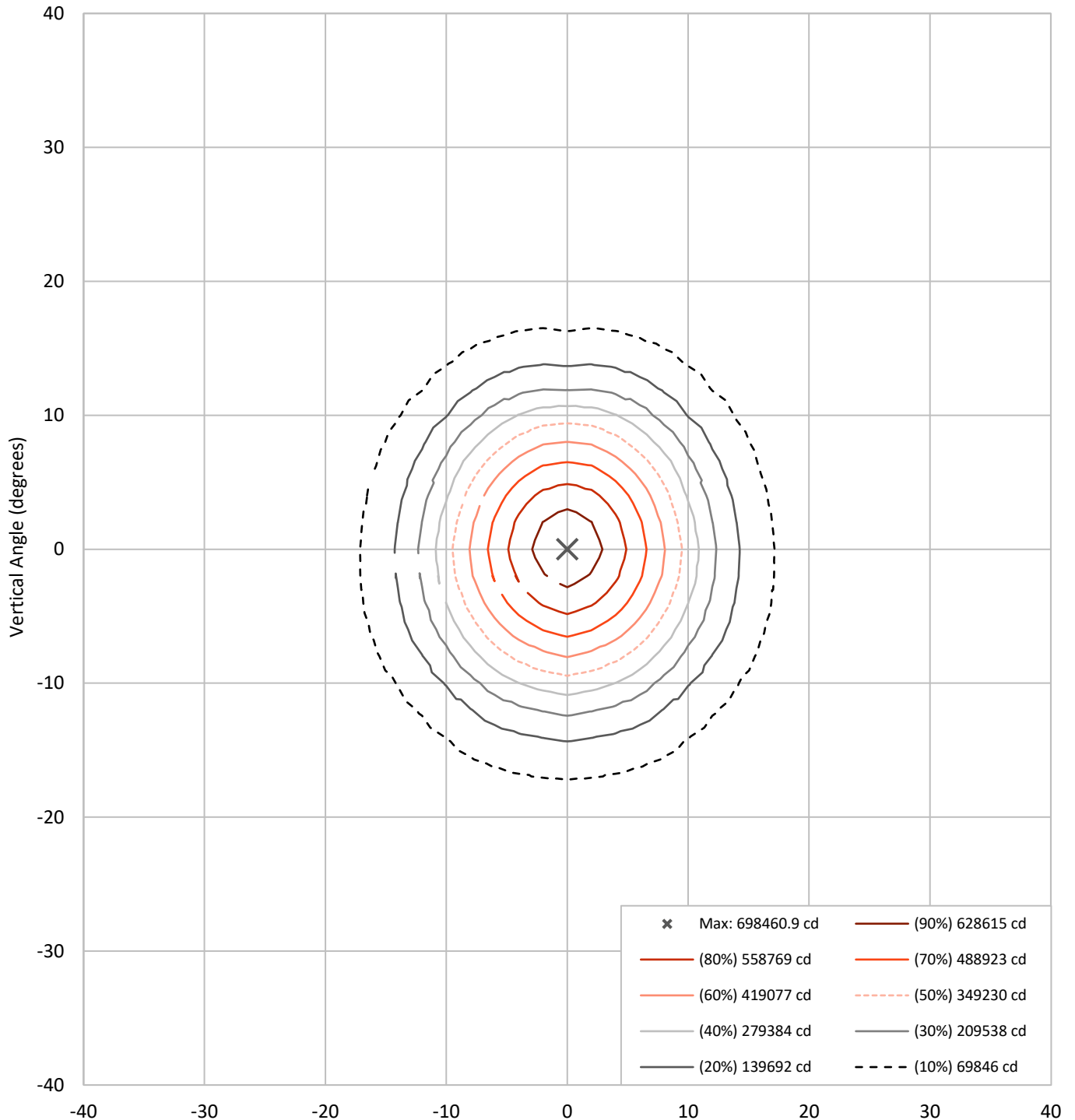
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	92063.8 lumens	Max Intensity:	698460.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	40810.3 lumens	Field Lumens:	74329.7 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 724.6  
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





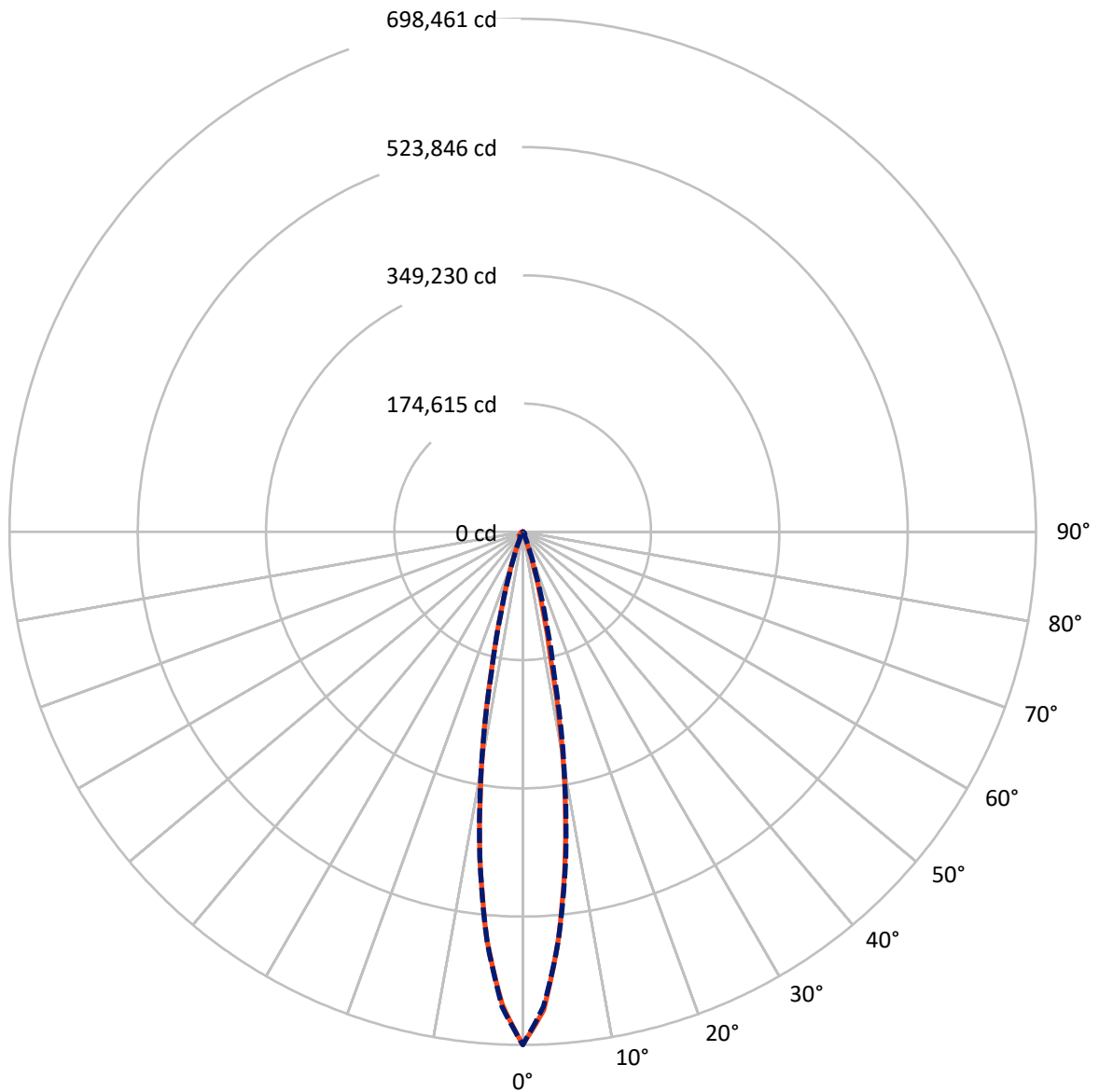
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### Lumen Table

90	0.3	1.2	2.3	3.2	3.5	3.2	2.3	1.2	0.3									
80	0.3	1.2	2.3	3.2	3.5	3.2	2.3	1.2	0.3									
70	0.4	0.2	0.3	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.7	0.3	0.2	0.4		
60		0.6	1.1	1.2	1.0	1.0	1.2	1.4	1.4	1.2	1.0	1.0	1.2	1.1	0.6			
50	1.3	1.6	3.4	6.7	10.4	17.9	27.3	30.2	30.2	27.3	17.9	10.4	6.7	3.4	1.6	1.3		
40		3.5	9.9	17.9	37.7	61.6	69.0	72.4	72.4	69.0	61.6	37.7	17.9	9.9	3.5			
30	3.0	5.9	16.2	33.3	79.2	84.0	102.0	168.8	168.8	102.0	84.0	79.2	33.3	16.2	5.9	3.0		
20		8.1	20.8	59.3	105.0	123.9	771.5	3074.3	3074.3	771.5	123.9	105.0	59.3	20.8	8.1			
10	4.5	9.9	24.5	78.5	117.1	231.1	3117.1	12968.7	12968.7	3117.1	231.1	117.1	78.5	24.5	9.9	4.5		
0		11.0	27.4	83.8	130.2	258.4	3277.0	12906.2	12906.2	3277.0	258.4	130.2	83.8	27.4	11.0			
-10	5.2	11.4	29.3	82.7	144.2	177.7	909.8	3331.1	3331.1	909.8	177.7	144.2	82.7	29.3	11.4	5.2		
-20		11.0	29.7	64.0	146.9	179.9	196.3	304.9	304.9	196.3	179.9	146.9	64.0	29.7	11.0			
-30	4.9	9.9	27.7	51.1	107.6	180.8	203.2	205.5	205.5	203.2	180.8	107.6	51.1	27.7	9.9	4.9		
-40		8.3	22.7	44.7	66.7	100.8	149.3	186.2	186.2	149.3	100.8	66.7	44.7	22.7	8.3			
-50	4.2	6.4	16.5	32.5	51.9	67.6	78.8	86.0	86.0	78.8	67.6	51.9	32.5	16.5	6.4	4.2		
-60		5.1	10.8	19.8	31.4	42.1	51.4	57.5	57.5	51.4	42.1	31.4	19.8	10.8	5.1			
-70	2.9	19.4	46.4	72.9	87.0	72.9	46.4	19.4	2.9							2.9		
-80		19.4	46.4	72.9	87.0	72.9	46.4	19.4	2.9									
-90	2.9	19.4	46.4	72.9	87.0	72.9	46.4	19.4	2.9									

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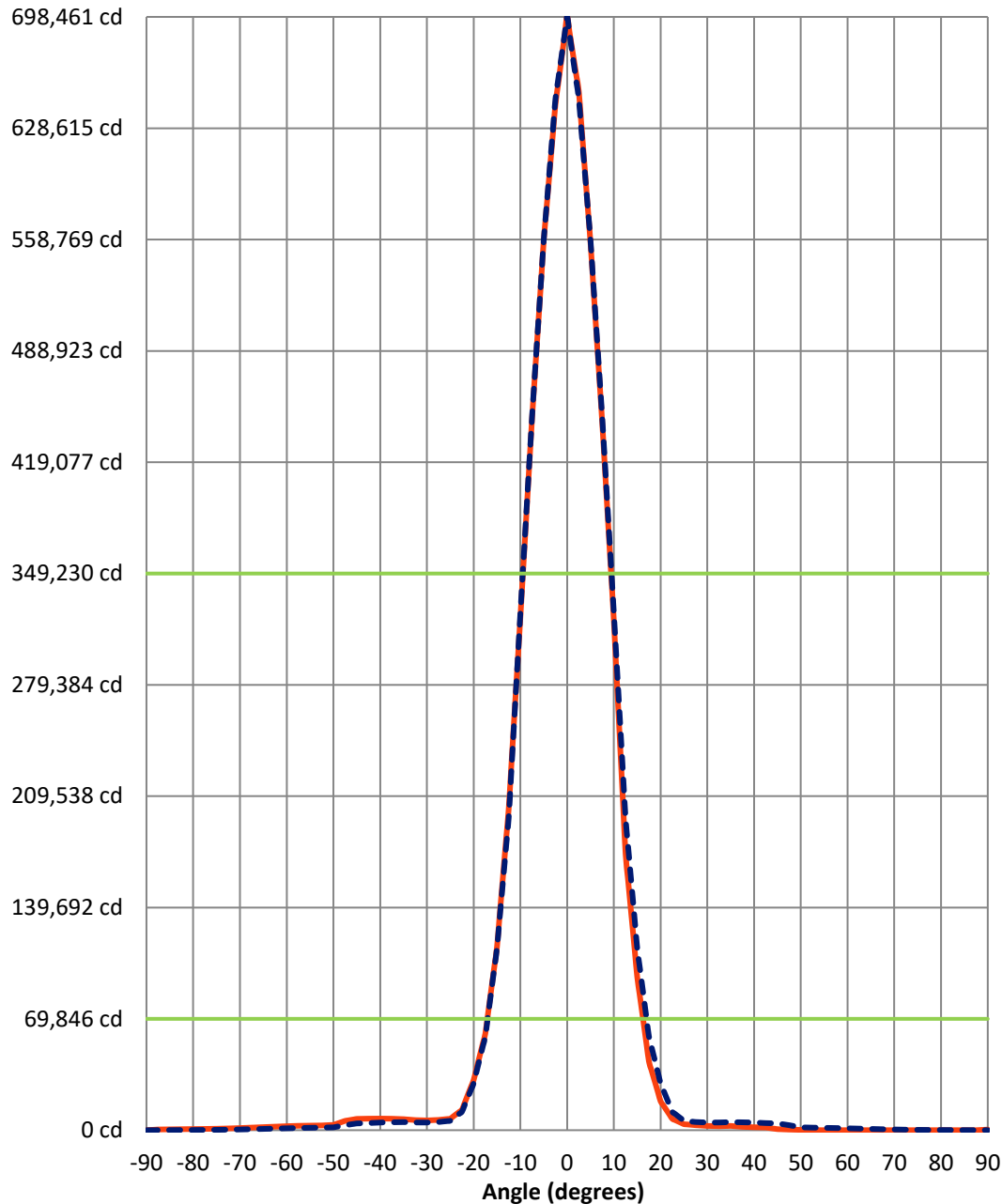
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 19°  
V Angle: 18.9°  
Lumens: 40810.3  
Efficiency: 44.3%

**Field:**  
H Angle: 34°  
V Angle: 33.3°  
Lumens: 74329.7  
Efficiency: 80.7%

**Spill:**  
Lumens: 17734.1  
Efficiency: 19.3%

— 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°	10.0	26.6	43.3	65.0	86.6	108.3	130.0	145.4	160.9	176.3	191.7
87.5°	10.0	8.6	7.0	7.0	7.0	6.9	6.7	6.7	6.7	6.7	6.7
85°	10.0	8.9	7.3	7.3	7.3	7.1	6.7	6.7	6.7	6.7	6.7
82.5°	10.0	9.2	7.6	7.7	7.6	7.3	6.7	6.7	6.7	6.8	6.7
80°	10.0	9.5	7.9	8.0	7.9	7.5	6.9	7.2	7.3	7.2	6.8
77.5°	10.0	9.8	8.3	8.3	8.2	8.0	7.8	8.0	8.0	7.6	7.1
75°	10.0	10.2	8.6	8.7	8.7	9.2	8.8	8.8	8.7	8.6	8.0
72.5°	10.0	10.5	9.0	9.0	9.9	10.3	9.9	9.9	10.3	10.0	9.0
70°	10.0	10.8	9.4	9.5	11.1	11.6	11.1	11.6	12.0	11.5	10.9
67.5°	10.0	11.1	9.9	10.6	12.3	12.9	13.3	13.5	13.8	14.2	13.2
65°	10.0	11.4	10.3	11.7	13.6	14.7	15.6	15.4	16.9	17.1	16.2
62.5°	10.0	11.8	10.8	12.8	14.9	17.2	18.0	18.3	20.1	20.5	20.5
60°	10.0	12.1	11.3	14.0	16.3	19.7	20.7	21.7	23.6	25.4	25.2
57.5°	10.0	12.5	12.4	15.1	18.6	22.3	24.7	25.4	28.3	30.5	33.3
55°	10.0	12.8	13.6	16.2	21.0	25.1	29.2	30.0	33.6	37.1	43.7
52.5°	10.0	13.2	14.8	17.4	23.4	28.1	33.9	36.3	39.0	48.3	55.1
50°	10.0	13.5	16.1	18.5	25.9	32.6	38.9	43.3	46.4	60.2	73.2
47.5°	10.0	13.9	17.3	19.9	28.4	37.1	44.4	50.8	58.1	72.9	93.2
45°	10.0	14.2	18.7	21.8	30.9	41.8	51.4	58.8	72.6	92.5	114.6
42.5°	10.0	14.6	20.0	23.7	33.5	46.6	58.7	70.1	87.7	113.1	146.5
40°	10.0	14.9	21.4	26.3	36.7	51.5	66.3	83.7	105.3	134.9	182.4
37.5°	10.0	15.3	22.8	29.2	40.6	56.5	74.2	97.6	127.3	163.1	220.7
35°	10.0	15.7	24.2	32.2	44.4	62.4	82.4	111.8	149.8	198.6	263.7
32.5°	10.0	16.0	25.7	35.3	48.2	68.9	91.7	126.3	172.7	233.3	308.5
30°	10.0	16.4	27.2	38.4	52.0	75.4	103.4	141.9	196.0	267.2	351.4
27.5°	10.0	16.7	28.6	41.5	57.4	81.9	115.1	161.0	221.3	300.3	392.4
25°	10.0	17.1	30.1	44.7	63.0	88.4	126.6	179.9	249.1	334.3	431.6
22.5°	10.0	17.4	31.6	47.8	68.4	95.3	138.0	198.6	275.9	367.6	474.6
20°	10.0	17.8	33.0	50.9	73.9	103.2	149.1	216.9	301.6	398.9	515.4
17.5°	10.0	18.1	34.5	54.0	79.2	110.8	160.3	234.7	326.0	428.3	553.6
15°	10.0	18.4	35.9	57.1	84.4	118.1	171.1	251.1	349.1	455.6	589.2
12.5°	10.0	18.7	37.3	60.1	89.4	125.2	181.2	265.5	370.0	480.9	622.0
10°	10.0	19.0	38.6	63.0	94.3	131.9	190.7	278.6	389.2	508.5	655.8
7.5°	10.0	19.3	39.9	65.8	99.0	138.2	199.6	290.5	406.9	535.4	695.2
5°	10.0	19.5	41.1	68.5	103.5	144.2	207.7	301.1	423.1	560.8	732.2
2.5°	10.0	19.8	42.2	71.0	107.7	149.8	215.1	310.4	437.6	584.2	766.3
0°	10.0	20.0	43.3	73.4	111.7	155.0	221.7	318.4	450.1	605.2	796.9
-2.5°	10.0	21.0	45.7	77.3	116.7	161.4	229.6	329.3	464.8	621.4	814.0
-5°	10.0	21.9	47.9	80.9	121.4	167.5	236.6	338.7	477.3	634.8	827.2
-7.5°	10.0	22.8	50.1	84.4	125.8	173.0	242.9	346.7	487.4	645.3	836.5
-10°	10.0	23.7	52.1	87.7	129.9	178.1	248.3	353.0	494.9	653.0	842.0
-12.5°	10.0	24.6	54.0	90.7	133.6	182.7	252.8	357.6	499.8	658.2	847.7
-15°	10.0	25.4	55.8	93.5	137.1	186.8	256.4	360.4	502.7	662.9	850.9
-17.5°	10.0	26.2	57.5	96.1	140.2	190.4	259.2	362.5	503.6	664.3	849.6
-20°	10.0	27.0	59.0	98.4	143.0	193.4	261.6	363.6	501.9	662.2	843.5



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 CATALOG NUMBER: EPH-LS-08-0680R-57-70-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.0	27.7	60.3	100.5	145.4	195.9	263.8	362.6	497.4	656.8	832.6
-25°	10.0	28.3	61.5	102.2	147.5	198.3	264.9	359.6	490.2	647.8	816.9
-27.5°	10.0	29.0	62.5	103.7	149.3	200.3	264.9	354.5	480.2	636.1	803.7
-30°	10.0	29.5	63.3	104.9	150.7	201.7	263.7	347.3	470.9	622.2	786.6
-32.5°	10.0	30.0	63.9	105.9	151.9	202.4	261.4	343.4	461.0	605.2	765.5
-35°	10.0	30.5	64.4	106.5	152.7	202.5	260.6	339.7	448.5	584.9	740.4
-37.5°	10.0	30.9	64.7	106.9	153.0	202.4	260.0	334.5	433.3	561.5	714.4
-40°	10.0	31.2	64.8	106.9	152.9	202.3	258.7	327.8	415.6	539.8	684.8
-42.5°	10.0	31.5	64.7	106.6	152.5	201.7	256.5	319.7	402.8	516.3	650.3
-45°	10.0	31.8	64.4	106.0	151.7	200.5	253.5	312.7	391.8	489.7	612.5
-47.5°	10.0	31.9	64.0	105.1	150.5	198.7	249.7	308.2	379.0	460.3	578.9
-50°	10.0	32.1	63.3	104.1	148.8	196.3	246.6	302.7	363.5	442.3	541.9
-52.5°	10.0	32.1	62.5	102.7	146.7	193.4	242.9	296.2	352.4	422.1	503.3
-55°	10.0	32.1	61.5	101.1	144.2	190.1	238.5	289.0	342.7	399.8	477.4
-57.5°	10.0	32.1	60.3	99.2	141.3	186.2	233.4	282.8	332.1	384.8	449.1
-60°	10.0	32.0	59.0	97.0	138.0	181.8	227.7	275.2	320.9	371.4	423.5
-62.5°	10.0	31.8	58.4	94.6	134.4	176.8	221.4	266.7	310.8	356.9	406.9
-65°	10.0	31.6	57.6	91.8	130.5	171.4	214.4	257.5	299.8	343.4	389.2
-67.5°	10.0	31.3	56.7	88.9	126.2	165.5	206.8	247.5	288.0	329.6	372.4
-70°	10.0	30.9	55.6	85.7	121.6	159.2	198.7	236.9	275.1	314.9	355.3
-72.5°	10.0	30.6	54.5	83.5	116.6	152.5	190.0	225.6	261.3	298.5	337.1
-75°	10.0	30.1	53.2	81.3	111.3	145.4	180.8	213.6	246.9	281.4	317.0
-77.5°	10.0	29.7	51.8	79.0	107.4	137.8	171.1	201.1	231.6	263.3	296.1
-80°	10.0	29.1	50.3	76.5	103.7	131.7	161.0	188.0	215.7	244.3	273.8
-82.5°	10.0	28.6	48.6	73.8	99.8	126.3	153.4	175.9	199.2	224.6	250.7
-85°	10.0	28.0	46.9	71.0	95.6	120.5	145.9	166.0	186.6	207.6	229.1
-87.5°	10.0	27.3	45.2	68.1	91.2	114.5	138.1	155.9	173.8	192.1	210.6
-90°	10.0	8.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7





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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°	206.3	220.9	235.5	250.1	260.9	271.8	282.6	293.4	302.6	311.8	320.9
87.5°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7
85°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7
82.5°	6.3	5.9	5.5	5.0	5.0	5.0	5.0	5.0	4.7	4.4	4.2
80°	6.3	5.9	5.7	5.6	5.6	5.5	5.3	5.1	5.0	5.1	5.1
77.5°	6.8	6.7	6.7	6.6	6.4	6.1	6.0	5.9	5.9	5.8	5.5
75°	7.6	7.6	7.5	7.0	6.6	6.6	6.7	6.7	6.4	6.0	5.6
72.5°	8.6	8.6	8.2	7.3	7.0	7.2	7.1	6.9	7.3	8.2	9.1
70°	10.1	9.8	9.6	8.8	7.9	8.3	9.7	10.9	12.1	14.2	17.1
67.5°	11.8	12.3	11.8	11.0	10.8	12.5	14.1	19.3	25.2	28.3	29.6
65°	14.8	15.0	15.8	16.1	15.1	19.7	25.7	32.7	39.2	40.5	39.4
62.5°	18.4	20.2	21.6	22.9	24.7	29.3	36.3	43.3	50.4	48.3	41.6
60°	25.4	26.5	30.4	34.2	35.6	38.1	45.7	49.6	51.8	50.5	39.3
57.5°	34.2	36.1	42.6	47.0	48.4	45.5	48.3	50.7	50.5	44.5	34.1
55°	46.3	48.7	56.7	62.5	62.2	51.2	50.6	53.0	49.2	43.2	33.6
52.5°	63.8	65.2	74.1	80.3	78.1	66.7	58.7	62.5	61.9	54.1	46.0
50°	83.1	90.4	93.8	102.6	102.0	92.8	77.6	85.3	98.7	96.2	84.7
47.5°	110.4	120.0	120.4	131.1	136.0	144.0	131.0	147.3	167.1	207.9	194.9
45°	143.1	159.0	160.3	170.2	195.4	225.7	237.9	236.9	337.6	373.9	400.4
42.5°	179.3	204.9	215.7	214.9	295.8	341.9	368.0	451.1	527.7	550.8	563.2
40°	225.1	255.9	279.3	331.5	415.3	479.0	544.7	633.5	675.3	679.3	679.5
37.5°	275.4	320.2	357.9	446.9	553.8	624.5	706.1	744.3	773.2	774.8	807.7
35°	329.3	389.5	459.3	558.5	676.3	756.5	803.7	838.2	854.0	890.3	1049.7
32.5°	391.1	463.7	554.8	665.3	777.8	859.5	887.6	917.4	955.8	1063.5	1531.6
30°	453.4	547.3	645.5	764.4	878.5	936.0	965.7	1003.1	1063.4	1483.6	2132.1
27.5°	506.2	625.6	732.8	856.8	973.2	1013.0	1047.4	1103.4	1359.9	1949.3	2850.4
25°	556.8	687.8	813.5	947.9	1044.2	1088.2	1131.5	1207.5	1708.1	2642.1	3257.1
22.5°	607.5	750.7	886.7	1038.0	1115.0	1160.7	1227.2	1511.2	2211.4	3334.2	3623.4
20°	659.4	813.5	959.4	1110.8	1183.0	1230.6	1322.0	1855.2	2826.5	3629.6	3897.4
17.5°	710.4	874.1	1027.8	1162.1	1237.1	1304.4	1449.1	2201.1	3380.2	3921.1	4107.5
15°	759.9	932.0	1089.9	1211.8	1290.9	1383.8	1747.6	2661.2	3739.4	4182.7	4359.7
12.5°	807.3	986.9	1146.0	1259.4	1344.7	1462.6	2060.1	3116.0	3979.9	4388.6	4558.1
10°	852.1	1038.4	1196.4	1304.9	1397.9	1539.6	2375.1	3500.0	4178.4	4527.9	4657.1
7.5°	894.5	1083.0	1241.4	1347.9	1449.7	1613.8	2680.6	3816.8	4334.9	4646.0	4725.6
5°	931.5	1119.3	1283.0	1394.3	1501.8	1679.5	2942.2	4070.3	4456.3	4744.3	4796.2
2.5°	963.3	1150.6	1320.6	1439.0	1552.1	1731.9	3068.7	4173.1	4471.7	4787.6	4869.5
0°	990.3	1177.0	1353.8	1480.5	1598.8	1777.2	3141.0	4226.3	4453.0	4799.8	4946.5
-2.5°	1012.4	1213.0	1401.1	1524.2	1643.5	1820.2	3135.7	4267.5	4499.9	4910.2	5242.3
-5°	1029.8	1243.3	1442.8	1564.7	1684.4	1857.0	3079.5	4255.7	4563.8	5007.9	5424.5
-7.5°	1042.3	1267.0	1478.0	1602.8	1724.7	1899.0	3039.2	4306.7	4749.8	5123.8	5498.4
-10°	1050.6	1282.6	1499.4	1638.4	1765.3	1940.5	2952.6	4285.3	4923.7	5240.0	5569.2
-12.5°	1060.2	1291.5	1513.1	1669.5	1800.7	1973.2	2799.8	4183.0	5084.8	5365.3	5638.6
-15°	1064.1	1294.4	1520.4	1695.6	1830.5	1996.5	2577.9	3993.5	5192.4	5433.5	5683.0
-17.5°	1062.3	1291.6	1521.0	1716.4	1854.4	2009.9	2284.9	3642.5	5023.4	5460.3	5724.3
-20°	1054.5	1283.0	1515.0	1731.8	1872.4	2026.7	2237.7	3239.0	4561.7	5440.2	5753.8



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1040.7	1268.8	1500.9	1723.2	1892.4	2048.0	2240.0	2820.6	4017.0	5372.5	5756.1
-25°	1022.9	1248.7	1479.1	1713.9	1910.0	2062.4	2233.2	2455.1	3477.7	4786.4	5698.6
-27.5°	1001.3	1221.6	1457.7	1696.2	1924.2	2071.8	2234.9	2437.8	3002.0	4109.4	5479.5
-30°	974.2	1191.3	1427.8	1668.7	1904.4	2081.8	2235.3	2397.7	2605.9	3498.6	4679.6
-32.5°	943.5	1154.4	1388.4	1628.0	1867.6	2088.5	2222.4	2369.4	2548.5	2869.1	3877.9
-35°	912.6	1116.4	1340.3	1577.8	1820.9	2048.6	2211.3	2342.9	2489.7	2684.8	3145.3
-37.5°	882.5	1072.1	1283.9	1517.5	1756.1	1977.0	2190.9	2320.9	2455.4	2592.7	2784.3
-40°	847.0	1021.5	1226.4	1447.5	1671.8	1892.1	2104.3	2298.6	2422.2	2541.1	2665.3
-42.5°	806.5	976.3	1164.2	1366.4	1578.2	1792.1	2007.7	2211.8	2385.4	2491.8	2605.0
-45°	762.8	925.4	1097.6	1283.9	1476.2	1683.0	1890.7	2098.9	2284.4	2450.2	2551.5
-47.5°	713.5	869.2	1033.9	1194.9	1374.2	1564.5	1764.7	1960.5	2151.5	2327.8	2500.1
-50°	662.4	808.1	960.0	1110.4	1270.4	1444.4	1628.3	1813.8	1997.1	2176.6	2345.9
-52.5°	616.8	741.2	881.4	1024.3	1169.8	1324.8	1488.4	1656.2	1831.9	2006.3	2163.8
-55°	567.4	680.8	797.8	932.6	1070.7	1210.2	1346.9	1498.2	1655.1	1819.4	1966.5
-57.5°	527.5	618.4	721.1	835.4	964.9	1096.0	1216.3	1338.1	1477.7	1623.4	1751.2
-60°	492.3	564.0	647.5	746.6	853.1	971.4	1084.8	1197.2	1309.9	1421.1	1541.9
-62.5°	458.1	520.4	585.9	661.0	755.2	846.1	945.9	1049.8	1153.7	1253.4	1350.0
-65°	437.4	480.9	536.6	598.0	659.4	738.7	819.4	899.3	991.0	1081.1	1169.5
-67.5°	415.1	456.1	497.6	542.9	599.3	651.3	703.0	775.2	846.6	914.3	983.7
-70°	394.2	430.7	469.2	508.4	546.3	584.8	632.1	679.0	725.0	774.7	834.4
-72.5°	372.8	406.5	441.0	476.3	510.5	542.3	574.4	606.4	644.0	684.4	723.8
-75°	349.7	381.4	413.0	445.1	474.7	503.0	531.6	560.7	589.2	617.4	645.8
-77.5°	325.2	353.8	382.9	412.5	438.7	463.6	488.8	514.2	539.2	563.9	588.4
-80°	299.7	325.5	351.3	377.6	400.2	422.2	444.4	466.6	488.6	510.4	531.9
-82.5°	273.2	295.6	318.4	341.5	360.8	379.7	398.5	417.4	435.9	454.4	472.9
-85°	247.3	265.3	284.7	304.2	320.5	336.6	352.6	368.5	384.0	399.4	414.6
-87.5°	226.9	243.3	259.5	275.8	288.5	301.1	313.7	326.3	338.1	350.0	361.8
-90°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	330.1	336.4	342.6	348.9	355.1	360.5	366.0	371.4	376.8	380.1	383.5
87.5°	3.3	3.2	3.2	3.2	3.2	2.8	2.5	2.1	1.7	1.7	1.7
85°	3.3	3.3	3.3	3.3	3.3	2.9	2.5	2.1	1.7	1.7	1.7
82.5°	4.1	4.0	3.8	3.6	3.3	3.2	3.2	3.1	3.1	3.2	3.2
80°	5.0	4.6	4.2	3.8	3.4	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	5.1	4.7	4.3	3.8	3.4	3.3	3.3	3.3	3.3	3.3	3.3
75°	5.2	5.0	5.3	5.3	5.0	5.0	5.0	4.9	4.7	4.5	4.1
72.5°	9.9	10.3	10.2	10.5	10.5	10.8	11.3	11.5	11.5	11.6	11.7
70°	18.7	19.4	19.8	19.6	18.5	17.5	17.1	16.6	16.0	16.4	17.4
67.5°	28.5	26.5	25.5	24.1	21.5	19.2	17.9	16.4	14.9	14.2	14.0
65°	35.4	27.9	24.3	21.5	19.4	16.8	14.5	12.5	10.7	9.6	9.1
62.5°	33.6	23.9	18.9	16.0	13.3	11.0	9.1	7.7	6.6	6.0	6.1
60°	28.7	18.8	13.2	10.7	8.0	5.3	4.9	4.7	4.3	3.9	4.2
57.5°	25.7	16.9	10.3	10.1	8.7	6.3	5.4	5.5	4.6	3.3	3.8
55°	28.6	24.2	16.8	17.3	16.8	14.2	12.1	14.4	13.9	10.9	11.9
52.5°	43.0	49.2	40.2	37.3	50.9	50.5	39.5	53.9	61.9	60.6	61.8
50°	101.0	114.1	127.9	117.2	143.8	159.7	156.2	175.0	194.3	193.9	199.9
47.5°	239.3	275.4	279.4	286.6	317.1	355.7	387.3	409.4	420.8	416.0	419.4
45°	428.3	436.4	455.1	496.6	548.3	610.7	658.3	685.9	778.9	844.9	883.5
42.5°	567.7	593.0	638.9	748.2	828.3	1012.4	1235.1	1321.5	1430.9	1486.4	1489.9
40°	707.4	772.0	961.4	1160.5	1592.9	1914.4	1933.6	2069.9	2132.7	2063.5	2053.1
37.5°	938.4	1178.2	1503.6	1963.8	2164.8	2252.2	2300.2	2317.6	2330.3	2318.8	2312.8
35°	1393.4	1810.6	2130.0	2280.0	2370.9	2373.7	2384.9	2383.4	2368.5	2360.7	2344.2
32.5°	2064.5	2462.4	2472.1	2460.5	2479.5	2468.6	2447.7	2438.1	2405.9	2386.4	2393.0
30°	2756.6	2758.8	2719.5	2628.3	2582.7	2568.7	2538.5	2513.6	2483.1	2487.7	2594.1
27.5°	3031.1	2997.4	2942.5	2863.8	2711.0	2681.0	2656.7	2646.3	2774.3	2891.2	2995.5
25°	3338.3	3251.1	3221.0	3152.3	2995.1	2821.1	2897.7	3018.0	3185.3	3359.5	3527.5
22.5°	3604.0	3541.1	3521.6	3496.1	3239.5	3164.6	3269.6	3467.5	3696.0	3998.7	4863.0
20°	3865.8	3797.8	3775.6	3647.5	3513.0	3531.6	3726.6	4071.8	4711.0	7007.4	9811.9
17.5°	4086.0	4015.6	3939.5	3790.1	3747.3	3934.5	4324.7	5537.2	8553.9	16091.9	23753.2
15°	4291.1	4198.6	4069.2	3971.2	4052.3	4400.8	5367.3	9498.6	19270.1	31922.7	47875.2
12.5°	4473.3	4331.8	4150.7	4099.9	4346.5	4933.4	8724.0	18638.8	33586.0	51611.0	89061.8
10°	4600.1	4416.7	4258.8	4346.6	4738.5	6314.2	12554.2	27943.9	50056.6	90372.2	136997.3
7.5°	4654.7	4488.6	4396.7	4585.2	5108.5	8109.0	18899.0	38646.6	70699.4	124909.8	199301.3
5°	4716.4	4601.8	4550.6	4821.4	5464.8	9571.2	23462.0	47653.3	92774.3	157347.9	253145.4
2.5°	4841.3	4732.1	4696.4	5028.7	5776.6	10934.5	27027.7	54655.5	107399.2	184415.6	300927.3
0°	5061.6	4834.8	4806.5	5131.6	5901.8	11555.2	29367.4	58878.2	114355.3	195997.2	324437.0
-2.5°	5236.5	4966.4	4912.4	5202.4	5956.9	11251.1	29130.1	58732.7	111517.4	192126.3	309507.2
-5°	5389.2	5118.2	5043.7	5313.0	6078.1	11239.8	27586.8	53890.6	99787.7	168824.7	260840.1
-7.5°	5525.0	5290.7	5180.4	5394.8	6094.1	10065.5	22313.2	44368.8	79762.8	131809.0	201887.4
-10°	5668.2	5488.3	5338.0	5481.4	6026.4	8008.7	14927.4	31982.8	56803.7	95586.3	143673.1
-12.5°	5831.9	5741.3	5520.4	5541.2	5934.8	6758.2	11032.8	22328.8	39436.7	60213.1	95069.5
-15°	5970.8	5966.7	5781.8	5723.0	5918.6	6446.6	7697.3	12399.9	23922.2	38706.2	55949.1
-17.5°	5999.8	6147.5	6076.8	5897.1	5908.6	6204.6	6720.2	8217.2	12016.3	21297.1	31556.4
-20°	6018.5	6334.1	6341.5	6195.7	6067.8	6034.7	6270.4	6707.1	7556.0	10692.2	14820.4



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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°	6047.0	6347.0	6560.4	6520.1	6269.1	6122.3	6069.5	6234.9	6522.2	6926.9	8266.3
-25°	6060.5	6340.5	6646.0	6729.8	6624.5	6355.9	6154.9	6042.7	6144.4	6272.8	6534.8
-27.5°	6002.7	6330.5	6626.7	6874.9	6905.1	6729.5	6434.1	6194.5	6101.3	6013.1	6121.0
-30°	5906.7	6272.8	6582.5	6888.0	7010.1	6953.9	6799.2	6604.8	6377.8	6201.2	6139.2
-32.5°	5120.3	6186.5	6503.7	6768.4	6969.9	7027.5	7029.1	6925.0	6828.0	6691.8	6532.4
-35°	4218.5	5401.2	6433.4	6566.7	6751.4	6942.2	7083.9	7088.8	7077.4	7012.9	6945.7
-37.5°	3279.3	4381.4	5374.1	6168.8	6448.2	6672.8	6915.4	7079.4	7182.4	7163.8	7151.4
-40°	2855.0	3202.4	4131.1	4941.1	5620.7	6260.1	6523.0	6817.6	7054.6	7137.1	7192.7
-42.5°	2724.0	2872.6	3023.7	3637.6	4337.7	4953.5	5532.6	6084.9	6578.0	6857.4	7051.9
-45°	2652.1	2734.8	2827.3	2964.0	3082.2	3592.2	4111.1	4615.1	5230.3	5796.6	6287.7
-47.5°	2585.6	2650.2	2721.9	2792.2	2857.8	2950.5	3030.8	3173.8	3634.6	4099.3	4565.5
-50°	2478.5	2585.4	2644.8	2697.3	2743.7	2786.7	2823.8	2888.5	2965.0	3031.6	3099.0
-52.5°	2299.5	2419.8	2534.1	2620.6	2657.0	2692.7	2729.2	2778.2	2823.5	2864.9	2896.7
-55°	2098.9	2220.7	2335.8	2423.5	2502.2	2574.7	2639.3	2682.7	2724.9	2765.7	2796.7
-57.5°	1878.2	2002.3	2115.0	2199.1	2277.8	2350.8	2421.9	2490.2	2552.7	2609.0	2657.0
-60°	1654.7	1759.5	1861.2	1950.2	2031.3	2104.5	2174.8	2242.0	2303.4	2358.8	2406.9
-62.5°	1444.9	1541.9	1622.4	1695.1	1765.0	1832.5	1903.6	1969.1	2028.5	2082.9	2132.7
-65°	1255.7	1339.3	1400.2	1457.2	1511.0	1569.0	1631.6	1689.2	1741.7	1790.5	1835.5
-67.5°	1061.0	1133.5	1187.0	1236.4	1282.3	1328.5	1378.5	1425.0	1468.0	1509.0	1547.4
-70°	892.0	942.6	979.9	1017.7	1058.5	1100.1	1143.2	1182.4	1217.7	1251.3	1282.3
-72.5°	762.1	793.2	819.4	851.7	880.8	911.8	943.8	973.4	1000.5	1026.8	1051.5
-75°	674.2	697.0	718.3	738.4	757.0	779.2	802.3	824.1	844.6	863.8	881.9
-77.5°	613.0	630.7	645.4	659.3	672.6	689.8	707.8	725.4	742.5	757.0	770.4
-80°	553.3	567.5	580.0	592.1	603.7	618.6	633.7	648.5	662.8	676.0	688.6
-82.5°	491.3	502.9	513.6	523.9	533.8	546.4	558.9	571.0	582.8	593.6	604.1
-85°	429.8	438.6	446.9	455.0	462.9	473.1	483.3	493.2	503.0	510.0	516.8
-87.5°	373.7	380.3	386.6	392.8	398.9	406.3	413.7	421.0	428.2	433.0	437.6
-90°	3.3	2.9	2.5	2.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	386.8	390.1	389.3	388.5	389.3	390.1	386.8	383.5	380.1	376.8	371.4
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	3.7	3.3	3.3	3.3	3.3	3.3	3.7	4.1	4.5	4.7	4.9
72.5°	11.6	11.5	11.6	11.7	11.6	11.5	11.6	11.7	11.6	11.5	11.5
70°	18.5	19.6	19.9	20.0	19.9	19.6	18.5	17.4	16.4	16.0	16.6
67.5°	13.8	13.5	12.6	11.7	12.6	13.5	13.8	14.0	14.2	14.9	16.4
65°	8.8	8.5	8.3	8.3	8.3	8.5	8.8	9.1	9.6	10.7	12.5
62.5°	6.3	6.7	6.7	6.7	6.7	6.7	6.3	6.1	6.0	6.6	7.7
60°	4.6	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.9	4.3	4.7
57.5°	4.3	4.8	5.0	5.0	5.0	4.8	4.3	3.8	3.3	4.6	5.5
55°	12.7	13.0	12.6	11.7	12.6	13.0	12.7	11.9	10.9	13.9	14.4
52.5°	60.8	56.1	48.8	40.0	48.8	56.1	60.8	61.8	60.6	61.9	53.9
50°	211.6	217.2	212.2	196.7	212.2	217.2	211.6	199.9	193.9	194.3	175.0
47.5°	435.8	440.6	425.4	390.1	425.4	440.6	435.8	419.4	416.0	420.8	409.4
45°	912.3	905.2	826.7	663.5	826.7	905.2	912.3	883.5	844.9	778.9	685.9
42.5°	1573.3	1643.4	1684.7	1685.5	1684.7	1643.4	1573.3	1489.9	1486.4	1430.9	1321.5
40°	2036.4	1954.2	1864.5	1850.6	1864.5	1954.2	2036.4	2053.1	2063.5	2132.7	2069.9
37.5°	2298.8	2316.1	2306.1	2112.3	2306.1	2316.1	2298.8	2312.8	2318.8	2330.3	2317.6
35°	2382.3	2512.6	2646.7	2674.2	2646.7	2512.6	2382.3	2344.2	2360.7	2368.5	2383.4
32.5°	2422.7	2467.3	2479.5	2484.1	2479.5	2467.3	2422.7	2393.0	2386.4	2405.9	2438.1
30°	2643.1	2672.3	2668.1	2662.5	2668.1	2672.3	2643.1	2594.1	2487.7	2483.1	2513.6
27.5°	3044.7	3093.0	3114.6	3129.3	3114.6	3093.0	3044.7	2995.5	2891.2	2774.3	2646.3
25°	3619.5	3693.3	3743.9	3766.2	3743.9	3693.3	3619.5	3527.5	3359.5	3185.3	3018.0
22.5°	5861.2	6372.6	6878.8	7140.5	6878.8	6372.6	5861.2	4863.0	3998.7	3696.0	3467.5
20°	14631.9	16841.8	17851.0	18145.6	17851.0	16841.8	14631.9	9811.9	7007.4	4711.0	4071.8
17.5°	34074.4	42451.4	48054.3	43145.0	48054.3	42451.4	34074.4	23753.2	16091.9	8553.9	5537.2
15°	69742.6	90958.3	102830.0	96149.7	102830.0	90958.3	69742.6	47875.2	31922.7	19270.1	9498.6
12.5°	125656.1	158766.5	181004.7	173671.2	181004.7	158766.5	125656.1	89061.8	51611.0	33586.0	18638.8
10°	197780.0	264359.8	308692.7	319652.1	308692.7	264359.8	197780.0	136997.3	90372.2	50056.6	27943.9
7.5°	287016.6	369451.5	434521.4	444592.4	434521.4	369451.5	287016.6	199301.3	124909.8	70699.4	38646.6
5°	374316.4	471620.1	539324.0	556900.5	539324.0	471620.1	374316.4	253145.4	157347.9	92774.3	47653.3
2.5°	428500.9	534408.2	615961.1	651883.2	615961.1	534408.2	428500.9	300927.3	184415.6	107399.2	54655.5
0°	447841.0	558447.6	646932.5	698460.9	646932.5	558447.6	447841.0	324437.0	195997.2	114355.3	58878.2
-2.5°	432846.3	533011.0	607708.0	643528.9	607708.0	533011.0	432846.3	309507.2	192126.3	111517.4	58732.7
-5°	368662.8	468183.6	528958.5	558137.5	528958.5	468183.6	368662.8	260840.1	168824.7	99787.7	53890.6
-7.5°	288077.2	367731.4	420211.8	446758.1	420211.8	367731.4	288077.2	201887.4	131809.0	79762.8	44368.8
-10°	201567.5	264762.8	300138.8	321799.5	300138.8	264762.8	201567.5	143673.1	95586.3	56803.7	31982.8
-12.5°	131149.7	167933.1	187746.0	201624.0	187746.0	167933.1	131149.7	95069.5	60213.1	39436.7	22328.8
-15°	79615.7	97542.4	108299.2	115042.2	108299.2	97542.4	79615.7	55949.1	38706.2	23922.2	12399.9
-17.5°	44436.7	52136.5	57588.6	60605.4	57588.6	52136.5	44436.7	31556.4	21297.1	12016.3	8217.2
-20°	22049.6	26920.5	30119.9	31463.1	30119.9	26920.5	22049.6	14820.4	10692.2	7556.0	6707.1



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10176.0	11477.2	12338.6	12748.9	12338.6	11477.2	10176.0	8266.3	6926.9	6522.2	6234.9
-25°	6789.4	6993.6	7143.7	7208.9	7143.7	6993.6	6789.4	6534.8	6272.8	6144.4	6042.7
-27.5°	6218.7	6326.9	6416.6	6452.0	6416.6	6326.9	6218.7	6121.0	6013.1	6101.3	6194.5
-30°	6091.6	6096.3	6121.7	6121.9	6121.7	6096.3	6091.6	6139.2	6201.2	6377.8	6604.8
-32.5°	6411.8	6341.4	6310.7	6343.6	6310.7	6341.4	6411.8	6532.4	6691.8	6828.0	6925.0
-35°	6900.9	6881.9	6883.4	6918.8	6883.4	6881.9	6900.9	6945.7	7012.9	7077.4	7088.8
-37.5°	7154.6	7169.5	7186.4	7190.6	7186.4	7169.5	7154.6	7151.4	7163.8	7182.4	7079.4
-40°	7225.0	7254.2	7276.2	7283.9	7276.2	7254.2	7225.0	7192.7	7137.1	7054.6	6817.6
-42.5°	7137.7	7195.8	7226.6	7233.9	7226.6	7195.8	7137.7	7051.9	6857.4	6578.0	6084.9
-45°	6644.3	6903.1	7049.4	7088.9	7049.4	6903.1	6644.3	6287.7	5796.6	5230.3	4615.1
-47.5°	5019.0	5425.1	5707.8	5838.5	5707.8	5425.1	5019.0	4565.5	4099.3	3634.6	3173.8
-50°	3169.7	3236.6	3286.7	3317.7	3286.7	3236.6	3169.7	3099.0	3031.6	2965.0	2888.5
-52.5°	2924.3	2948.9	2963.3	2969.3	2963.3	2948.9	2924.3	2896.7	2864.9	2823.5	2778.2
-55°	2823.2	2845.9	2855.9	2857.5	2855.9	2845.9	2823.2	2796.7	2765.7	2724.9	2682.7
-57.5°	2698.4	2733.1	2748.4	2750.9	2748.4	2733.1	2698.4	2657.0	2609.0	2552.7	2490.2
-60°	2447.6	2481.2	2497.8	2504.1	2497.8	2481.2	2447.6	2406.9	2358.8	2303.4	2242.0
-62.5°	2175.9	2212.5	2223.6	2222.4	2223.6	2212.5	2175.9	2132.7	2082.9	2028.5	1969.1
-65°	1874.8	1908.3	1917.9	1917.3	1917.9	1908.3	1874.8	1835.5	1790.5	1741.7	1689.2
-67.5°	1581.5	1611.1	1621.2	1623.8	1621.2	1611.1	1581.5	1547.4	1509.0	1468.0	1425.0
-70°	1309.4	1332.8	1338.6	1338.7	1338.6	1332.8	1309.4	1282.3	1251.3	1217.7	1182.4
-72.5°	1073.9	1094.0	1097.5	1097.0	1097.5	1094.0	1073.9	1051.5	1026.8	1000.5	973.4
-75°	899.0	914.9	915.5	913.6	915.5	914.9	899.0	881.9	863.8	844.6	824.1
-77.5°	783.0	794.8	797.3	798.6	797.3	794.8	783.0	770.4	757.0	742.5	725.4
-80°	700.6	711.9	711.6	710.2	711.6	711.9	700.6	688.6	676.0	662.8	648.5
-82.5°	614.3	624.0	624.1	623.5	624.1	624.0	614.3	604.1	593.6	582.8	571.0
-85°	523.3	529.5	529.2	528.5	529.2	529.5	523.3	516.8	510.0	503.0	493.2
-87.5°	442.1	446.6	446.7	446.8	446.7	446.6	442.1	437.6	433.0	428.2	421.0
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	366.0	360.5	355.1	348.9	342.6	336.4	330.1	320.9	311.8	302.6	293.4
87.5°	2.5	2.8	3.2	3.2	3.2	3.2	3.3	3.7	4.2	4.6	5.0
85°	2.5	2.9	3.3	3.3	3.3	3.3	3.3	3.7	4.2	4.6	5.0
82.5°	3.2	3.2	3.3	3.6	3.8	4.0	4.1	4.2	4.4	4.7	5.0
80°	3.3	3.3	3.4	3.8	4.2	4.6	5.0	5.1	5.1	5.0	5.1
77.5°	3.3	3.3	3.4	3.8	4.3	4.7	5.1	5.5	5.8	5.9	5.9
75°	5.0	5.0	5.0	5.3	5.3	5.0	5.2	5.6	6.0	6.4	6.7
72.5°	11.3	10.8	10.5	10.5	10.2	10.3	9.9	9.1	8.2	7.3	6.9
70°	17.1	17.5	18.5	19.6	19.8	19.4	18.7	17.1	14.2	12.1	10.9
67.5°	17.9	19.2	21.5	24.1	25.5	26.5	28.5	29.6	28.3	25.2	19.3
65°	14.5	16.8	19.4	21.5	24.3	27.9	35.4	39.4	40.5	39.2	32.7
62.5°	9.1	11.0	13.3	16.0	18.9	23.9	33.6	41.6	48.3	50.4	43.3
60°	4.9	5.3	8.0	10.7	13.2	18.8	28.7	39.3	50.5	51.8	49.6
57.5°	5.4	6.3	8.7	10.1	10.3	16.9	25.7	34.1	44.5	50.5	50.7
55°	12.1	14.2	16.8	17.3	16.8	24.2	28.6	33.6	43.2	49.2	53.0
52.5°	39.5	50.5	50.9	37.3	40.2	49.2	43.0	46.0	54.1	61.9	62.5
50°	156.2	159.7	143.8	117.2	127.9	114.1	101.0	84.7	96.2	98.7	85.3
47.5°	387.3	355.7	317.1	286.6	279.4	275.4	239.3	194.9	207.9	167.1	147.3
45°	658.3	610.7	548.3	496.6	455.1	436.4	428.3	400.4	373.9	337.6	236.9
42.5°	1235.1	1012.4	828.3	748.2	638.9	593.0	567.7	563.2	550.8	527.7	451.1
40°	1933.6	1914.4	1592.9	1160.5	961.4	772.0	707.4	679.5	679.3	675.3	633.5
37.5°	2300.2	2252.2	2164.8	1963.8	1503.6	1178.2	938.4	807.7	774.8	773.2	744.3
35°	2384.9	2373.7	2370.9	2280.0	2130.0	1810.6	1393.4	1049.7	890.3	854.0	838.2
32.5°	2447.7	2468.6	2479.5	2460.5	2472.1	2462.4	2064.5	1531.6	1063.5	955.8	917.4
30°	2538.5	2568.7	2582.7	2628.3	2719.5	2758.8	2756.6	2132.1	1483.6	1063.4	1003.1
27.5°	2656.7	2681.0	2711.0	2863.8	2942.5	2997.4	3031.1	2850.4	1949.3	1359.9	1103.4
25°	2897.7	2821.1	2995.1	3152.3	3221.0	3251.1	3338.3	3257.1	2642.1	1708.1	1207.5
22.5°	3269.6	3164.6	3239.5	3496.1	3521.6	3541.1	3604.0	3623.4	3334.2	2211.4	1511.2
20°	3726.6	3531.6	3513.0	3647.5	3775.6	3797.8	3865.8	3897.4	3629.6	2826.5	1855.2
17.5°	4324.7	3934.5	3747.3	3790.1	3939.5	4015.6	4086.0	4107.5	3921.1	3380.2	2201.1
15°	5367.3	4400.8	4052.3	3971.2	4069.2	4198.6	4291.1	4359.7	4182.7	3739.4	2661.2
12.5°	8724.0	4933.4	4346.5	4099.9	4150.7	4331.8	4473.3	4558.1	4388.6	3979.9	3116.0
10°	12554.2	6314.2	4738.5	4346.6	4258.8	4416.7	4600.1	4657.1	4527.9	4178.4	3500.0
7.5°	18899.0	8109.0	5108.5	4585.2	4396.7	4488.6	4654.7	4725.6	4646.0	4334.9	3816.8
5°	23462.0	9571.2	5464.8	4821.4	4550.6	4601.8	4716.4	4796.2	4744.3	4456.3	4070.3
2.5°	27027.7	10934.5	5776.6	5028.7	4696.4	4732.1	4841.3	4869.5	4787.6	4471.7	4173.1
0°	29367.4	11555.2	5901.8	5131.6	4806.5	4834.8	5061.6	4946.5	4799.8	4453.0	4226.3
-2.5°	29130.1	11251.1	5956.9	5202.4	4912.4	4966.4	5236.5	5242.3	4910.2	4499.9	4267.5
-5°	27586.8	11239.8	6078.1	5313.0	5043.7	5118.2	5389.2	5424.5	5007.9	4563.8	4255.7
-7.5°	22313.2	10065.5	6094.1	5394.8	5180.4	5290.7	5525.0	5498.4	5123.8	4749.8	4306.7
-10°	14927.4	8008.7	6026.4	5481.4	5338.0	5488.3	5668.2	5569.2	5240.0	4923.7	4285.3
-12.5°	11032.8	6758.2	5934.8	5541.2	5520.4	5741.3	5831.9	5638.6	5365.3	5084.8	4183.0
-15°	7697.3	6446.6	5918.6	5723.0	5781.8	5966.7	5970.8	5683.0	5433.5	5192.4	3993.5
-17.5°	6720.2	6204.6	5908.6	5897.1	6076.8	6147.5	5999.8	5724.3	5460.3	5023.4	3642.5
-20°	6270.4	6034.7	6067.8	6195.7	6341.5	6334.1	6018.5	5753.8	5440.2	4561.7	3239.0



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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°	6069.5	6122.3	6269.1	6520.1	6560.4	6347.0	6047.0	5756.1	5372.5	4017.0	2820.6
-25°	6154.9	6355.9	6624.5	6729.8	6646.0	6340.5	6060.5	5698.6	4786.4	3477.7	2455.1
-27.5°	6434.1	6729.5	6905.1	6874.9	6626.7	6330.5	6002.7	5479.5	4109.4	3002.0	2437.8
-30°	6799.2	6953.9	7010.1	6888.0	6582.5	6272.8	5906.7	4679.6	3498.6	2605.9	2397.7
-32.5°	7029.1	7027.5	6969.9	6768.4	6503.7	6186.5	5120.3	3877.9	2869.1	2548.5	2369.4
-35°	7083.9	6942.2	6751.4	6566.7	6433.4	5401.2	4218.5	3145.3	2684.8	2489.7	2342.9
-37.5°	6915.4	6672.8	6448.2	6168.8	5374.1	4381.4	3279.3	2784.3	2592.7	2455.4	2320.9
-40°	6523.0	6260.1	5620.7	4941.1	4131.1	3202.4	2855.0	2665.3	2541.1	2422.2	2298.6
-42.5°	5532.6	4953.5	4337.7	3637.6	3023.7	2872.6	2724.0	2605.0	2491.8	2385.4	2211.8
-45°	4111.1	3592.2	3082.2	2964.0	2827.3	2734.8	2652.1	2551.5	2450.2	2284.4	2098.9
-47.5°	3030.8	2950.5	2857.8	2792.2	2721.9	2650.2	2585.6	2500.1	2327.8	2151.5	1960.5
-50°	2823.8	2786.7	2743.7	2697.3	2644.8	2585.4	2478.5	2345.9	2176.6	1997.1	1813.8
-52.5°	2729.2	2692.7	2657.0	2620.6	2534.1	2419.8	2299.5	2163.8	2006.3	1831.9	1656.2
-55°	2639.3	2574.7	2502.2	2423.5	2335.8	2220.7	2098.9	1966.5	1819.4	1655.1	1498.2
-57.5°	2421.9	2350.8	2277.8	2199.1	2115.0	2002.3	1878.2	1751.2	1623.4	1477.7	1338.1
-60°	2174.8	2104.5	2031.3	1950.2	1861.2	1759.5	1654.7	1541.9	1421.1	1309.9	1197.2
-62.5°	1903.6	1832.5	1765.0	1695.1	1622.4	1541.9	1444.9	1350.0	1253.4	1153.7	1049.8
-65°	1631.6	1569.0	1511.0	1457.2	1400.2	1339.3	1255.7	1169.5	1081.1	991.0	899.3
-67.5°	1378.5	1328.5	1282.3	1236.4	1187.0	1133.5	1061.0	983.7	914.3	846.6	775.2
-70°	1143.2	1100.1	1058.5	1017.7	979.9	942.6	892.0	834.4	774.7	725.0	679.0
-72.5°	943.8	911.8	880.8	851.7	819.4	793.2	762.1	723.8	684.4	644.0	606.4
-75°	802.3	779.2	757.0	738.4	718.3	697.0	674.2	645.8	617.4	589.2	560.7
-77.5°	707.8	689.8	672.6	659.3	645.4	630.7	613.0	588.4	563.9	539.2	514.2
-80°	633.7	618.6	603.7	592.1	580.0	567.5	553.3	531.9	510.4	488.6	466.6
-82.5°	558.9	546.4	533.8	523.9	513.6	502.9	491.3	472.9	454.4	435.9	417.4
-85°	483.3	473.1	462.9	455.0	446.9	438.6	429.8	414.6	399.4	384.0	368.5
-87.5°	413.7	406.3	398.9	392.8	386.6	380.3	373.7	361.8	350.0	338.1	326.3
-90°	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.7	4.2	4.6	5.0





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	282.6	271.8	260.9	250.1	235.5	220.9	206.3	191.7	176.3	160.9	145.4
87.5°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7
85°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7
82.5°	5.0	5.0	5.0	5.0	5.5	5.9	6.3	6.7	6.8	6.7	6.7
80°	5.3	5.5	5.6	5.6	5.7	5.9	6.3	6.8	7.2	7.3	7.2
77.5°	6.0	6.1	6.4	6.6	6.7	6.7	6.8	7.1	7.6	8.0	8.0
75°	6.7	6.6	6.6	7.0	7.5	7.6	7.6	8.0	8.6	8.7	8.8
72.5°	7.1	7.2	7.0	7.3	8.2	8.6	8.6	9.0	10.0	10.3	9.9
70°	9.7	8.3	7.9	8.8	9.6	9.8	10.1	10.9	11.5	12.0	11.6
67.5°	14.1	12.5	10.8	11.0	11.8	12.3	11.8	13.2	14.2	13.8	13.5
65°	25.7	19.7	15.1	16.1	15.8	15.0	14.8	16.2	17.1	16.9	15.4
62.5°	36.3	29.3	24.7	22.9	21.6	20.2	18.4	20.5	20.5	20.1	18.3
60°	45.7	38.1	35.6	34.2	30.4	26.5	25.4	25.2	25.4	23.6	21.7
57.5°	48.3	45.5	48.4	47.0	42.6	36.1	34.2	33.3	30.5	28.3	25.4
55°	50.6	51.2	62.2	62.5	56.7	48.7	46.3	43.7	37.1	33.6	30.0
52.5°	58.7	66.7	78.1	80.3	74.1	65.2	63.8	55.1	48.3	39.0	36.3
50°	77.6	92.8	102.0	102.6	93.8	90.4	83.1	73.2	60.2	46.4	43.3
47.5°	131.0	144.0	136.0	131.1	120.4	120.0	110.4	93.2	72.9	58.1	50.8
45°	237.9	225.7	195.4	170.2	160.3	159.0	143.1	114.6	92.5	72.6	58.8
42.5°	368.0	341.9	295.8	214.9	215.7	204.9	179.3	146.5	113.1	87.7	70.1
40°	544.7	479.0	415.3	331.5	279.3	255.9	225.1	182.4	134.9	105.3	83.7
37.5°	706.1	624.5	553.8	446.9	357.9	320.2	275.4	220.7	163.1	127.3	97.6
35°	803.7	756.5	676.3	558.5	459.3	389.5	329.3	263.7	198.6	149.8	111.8
32.5°	887.6	859.5	777.8	665.3	554.8	463.7	391.1	308.5	233.3	172.7	126.3
30°	965.7	936.0	878.5	764.4	645.5	547.3	453.4	351.4	267.2	196.0	141.9
27.5°	1047.4	1013.0	973.2	856.8	732.8	625.6	506.2	392.4	300.3	221.3	161.0
25°	1131.5	1088.2	1044.2	947.9	813.5	687.8	556.8	431.6	334.3	249.1	179.9
22.5°	1227.2	1160.7	1115.0	1038.0	886.7	750.7	607.5	474.6	367.6	275.9	198.6
20°	1322.0	1230.6	1183.0	1110.8	959.4	813.5	659.4	515.4	398.9	301.6	216.9
17.5°	1449.1	1304.4	1237.1	1162.1	1027.8	874.1	710.4	553.6	428.3	326.0	234.7
15°	1747.6	1383.8	1290.9	1211.8	1089.9	932.0	759.9	589.2	455.6	349.1	251.1
12.5°	2060.1	1462.6	1344.7	1259.4	1146.0	986.9	807.3	622.0	480.9	370.0	265.5
10°	2375.1	1539.6	1397.9	1304.9	1196.4	1038.4	852.1	655.8	508.5	389.2	278.6
7.5°	2680.6	1613.8	1449.7	1347.9	1241.4	1083.0	894.5	695.2	535.4	406.9	290.5
5°	2942.2	1679.5	1501.8	1394.3	1283.0	1119.3	931.5	732.2	560.8	423.1	301.1
2.5°	3068.7	1731.9	1552.1	1439.0	1320.6	1150.6	963.3	766.3	584.2	437.6	310.4
0°	3141.0	1777.2	1598.8	1480.5	1353.8	1177.0	990.3	796.9	605.2	450.1	318.4
-2.5°	3135.7	1820.2	1643.5	1524.2	1401.1	1213.0	1012.4	814.0	621.4	464.8	329.3
-5°	3079.5	1857.0	1684.4	1564.7	1442.8	1243.3	1029.8	827.2	634.8	477.3	338.7
-7.5°	3039.2	1899.0	1724.7	1602.8	1478.0	1267.0	1042.3	836.5	645.3	487.4	346.7
-10°	2952.6	1940.5	1765.3	1638.4	1499.4	1282.6	1050.6	842.0	653.0	494.9	353.0
-12.5°	2799.8	1973.2	1800.7	1669.5	1513.1	1291.5	1060.2	847.7	658.2	499.8	357.6
-15°	2577.9	1996.5	1830.5	1695.6	1520.4	1294.4	1064.1	850.9	662.9	502.7	360.4
-17.5°	2284.9	2009.9	1854.4	1716.4	1521.0	1291.6	1062.3	849.6	664.3	503.6	362.5
-20°	2237.7	2026.7	1872.4	1731.8	1515.0	1283.0	1054.5	843.5	662.2	501.9	363.6



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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°	2240.0	2048.0	1892.4	1723.2	1500.9	1268.8	1040.7	832.6	656.8	497.4	362.6
-25°	2233.2	2062.4	1910.0	1713.9	1479.1	1248.7	1022.9	816.9	647.8	490.2	359.6
-27.5°	2234.9	2071.8	1924.2	1696.2	1457.7	1221.6	1001.3	803.7	636.1	480.2	354.5
-30°	2235.3	2081.8	1904.4	1668.7	1427.8	1191.3	974.2	786.6	622.2	470.9	347.3
-32.5°	2222.4	2088.5	1867.6	1628.0	1388.4	1154.4	943.5	765.5	605.2	461.0	343.4
-35°	2211.3	2048.6	1820.9	1577.8	1340.3	1116.4	912.6	740.4	584.9	448.5	339.7
-37.5°	2190.9	1977.0	1756.1	1517.5	1283.9	1072.1	882.5	714.4	561.5	433.3	334.5
-40°	2104.3	1892.1	1671.8	1447.5	1226.4	1021.5	847.0	684.8	539.8	415.6	327.8
-42.5°	2007.7	1792.1	1578.2	1366.4	1164.2	976.3	806.5	650.3	516.3	402.8	319.7
-45°	1890.7	1683.0	1476.2	1283.9	1097.6	925.4	762.8	612.5	489.7	391.8	312.7
-47.5°	1764.7	1564.5	1374.2	1194.9	1033.9	869.2	713.5	578.9	460.3	379.0	308.2
-50°	1628.3	1444.4	1270.4	1110.4	960.0	808.1	662.4	541.9	442.3	363.5	302.7
-52.5°	1488.4	1324.8	1169.8	1024.3	881.4	741.2	616.8	503.3	422.1	352.4	296.2
-55°	1346.9	1210.2	1070.7	932.6	797.8	680.8	567.4	477.4	399.8	342.7	289.0
-57.5°	1216.3	1096.0	964.9	835.4	721.1	618.4	527.5	449.1	384.8	332.1	282.8
-60°	1084.8	971.4	853.1	746.6	647.5	564.0	492.3	423.5	371.4	320.9	275.2
-62.5°	945.9	846.1	755.2	661.0	585.9	520.4	458.1	406.9	356.9	310.8	266.7
-65°	819.4	738.7	659.4	598.0	536.6	480.9	437.4	389.2	343.4	299.8	257.5
-67.5°	703.0	651.3	599.3	542.9	497.6	456.1	415.1	372.4	329.6	288.0	247.5
-70°	632.1	584.8	546.3	508.4	469.2	430.7	394.2	355.3	314.9	275.1	236.9
-72.5°	574.4	542.3	510.5	476.3	441.0	406.5	372.8	337.1	298.5	261.3	225.6
-75°	531.6	503.0	474.7	445.1	413.0	381.4	349.7	317.0	281.4	246.9	213.6
-77.5°	488.8	463.6	438.7	412.5	382.9	353.8	325.2	296.1	263.3	231.6	201.1
-80°	444.4	422.2	400.2	377.6	351.3	325.5	299.7	273.8	244.3	215.7	188.0
-82.5°	398.5	379.7	360.8	341.5	318.4	295.6	273.2	250.7	224.6	199.2	175.9
-85°	352.6	336.6	320.5	304.2	284.7	265.3	247.3	229.1	207.6	186.6	166.0
-87.5°	313.7	301.1	288.5	275.8	259.5	243.3	226.9	210.6	192.1	173.8	155.9
-90°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	130.0	108.3	86.6	65.0	43.3	26.6	10.0
87.5°	6.7	6.9	7.0	7.0	7.0	8.6	10.0
85°	6.7	7.1	7.3	7.3	7.3	8.9	10.0
82.5°	6.7	7.3	7.6	7.7	7.6	9.2	10.0
80°	6.9	7.5	7.9	8.0	7.9	9.5	10.0
77.5°	7.8	8.0	8.2	8.3	8.3	9.8	10.0
75°	8.8	9.2	8.7	8.7	8.6	10.2	10.0
72.5°	9.9	10.3	9.9	9.0	9.0	10.5	10.0
70°	11.1	11.6	11.1	9.5	9.4	10.8	10.0
67.5°	13.3	12.9	12.3	10.6	9.9	11.1	10.0
65°	15.6	14.7	13.6	11.7	10.3	11.4	10.0
62.5°	18.0	17.2	14.9	12.8	10.8	11.8	10.0
60°	20.7	19.7	16.3	14.0	11.3	12.1	10.0
57.5°	24.7	22.3	18.6	15.1	12.4	12.5	10.0
55°	29.2	25.1	21.0	16.2	13.6	12.8	10.0
52.5°	33.9	28.1	23.4	17.4	14.8	13.2	10.0
50°	38.9	32.6	25.9	18.5	16.1	13.5	10.0
47.5°	44.4	37.1	28.4	19.9	17.3	13.9	10.0
45°	51.4	41.8	30.9	21.8	18.7	14.2	10.0
42.5°	58.7	46.6	33.5	23.7	20.0	14.6	10.0
40°	66.3	51.5	36.7	26.3	21.4	14.9	10.0
37.5°	74.2	56.5	40.6	29.2	22.8	15.3	10.0
35°	82.4	62.4	44.4	32.2	24.2	15.7	10.0
32.5°	91.7	68.9	48.2	35.3	25.7	16.0	10.0
30°	103.4	75.4	52.0	38.4	27.2	16.4	10.0
27.5°	115.1	81.9	57.4	41.5	28.6	16.7	10.0
25°	126.6	88.4	63.0	44.7	30.1	17.1	10.0
22.5°	138.0	95.3	68.4	47.8	31.6	17.4	10.0
20°	149.1	103.2	73.9	50.9	33.0	17.8	10.0
17.5°	160.3	110.8	79.2	54.0	34.5	18.1	10.0
15°	171.1	118.1	84.4	57.1	35.9	18.4	10.0
12.5°	181.2	125.2	89.4	60.1	37.3	18.7	10.0
10°	190.7	131.9	94.3	63.0	38.6	19.0	10.0
7.5°	199.6	138.2	99.0	65.8	39.9	19.3	10.0
5°	207.7	144.2	103.5	68.5	41.1	19.5	10.0
2.5°	215.1	149.8	107.7	71.0	42.2	19.8	10.0
0°	221.7	155.0	111.7	73.4	43.3	20.0	10.0
-2.5°	229.6	161.4	116.7	77.3	45.7	21.0	10.0
-5°	236.6	167.5	121.4	80.9	47.9	21.9	10.0
-7.5°	242.9	173.0	125.8	84.4	50.1	22.8	10.0
-10°	248.3	178.1	129.9	87.7	52.1	23.7	10.0
-12.5°	252.8	182.7	133.6	90.7	54.0	24.6	10.0
-15°	256.4	186.8	137.1	93.5	55.8	25.4	10.0
-17.5°	259.2	190.4	140.2	96.1	57.5	26.2	10.0
-20°	261.6	193.4	143.0	98.4	59.0	27.0	10.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	263.8	195.9	145.4	100.5	60.3	27.7	10.0
-25°	264.9	198.3	147.5	102.2	61.5	28.3	10.0
-27.5°	264.9	200.3	149.3	103.7	62.5	29.0	10.0
-30°	263.7	201.7	150.7	104.9	63.3	29.5	10.0
-32.5°	261.4	202.4	151.9	105.9	63.9	30.0	10.0
-35°	260.6	202.5	152.7	106.5	64.4	30.5	10.0
-37.5°	260.0	202.4	153.0	106.9	64.7	30.9	10.0
-40°	258.7	202.3	152.9	106.9	64.8	31.2	10.0
-42.5°	256.5	201.7	152.5	106.6	64.7	31.5	10.0
-45°	253.5	200.5	151.7	106.0	64.4	31.8	10.0
-47.5°	249.7	198.7	150.5	105.1	64.0	31.9	10.0
-50°	246.6	196.3	148.8	104.1	63.3	32.1	10.0
-52.5°	242.9	193.4	146.7	102.7	62.5	32.1	10.0
-55°	238.5	190.1	144.2	101.1	61.5	32.1	10.0
-57.5°	233.4	186.2	141.3	99.2	60.3	32.1	10.0
-60°	227.7	181.8	138.0	97.0	59.0	32.0	10.0
-62.5°	221.4	176.8	134.4	94.6	58.4	31.8	10.0
-65°	214.4	171.4	130.5	91.8	57.6	31.6	10.0
-67.5°	206.8	165.5	126.2	88.9	56.7	31.3	10.0
-70°	198.7	159.2	121.6	85.7	55.6	30.9	10.0
-72.5°	190.0	152.5	116.6	83.5	54.5	30.6	10.0
-75°	180.8	145.4	111.3	81.3	53.2	30.1	10.0
-77.5°	171.1	137.8	107.4	79.0	51.8	29.7	10.0
-80°	161.0	131.7	103.7	76.5	50.3	29.1	10.0
-82.5°	153.4	126.3	99.8	73.8	48.6	28.6	10.0
-85°	145.9	120.5	95.6	71.0	46.9	28.0	10.0
-87.5°	138.1	114.5	91.2	68.1	45.2	27.3	10.0
-90°	6.7	6.7	6.7	6.7	6.7	8.4	10.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



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

Scaled Data Report

