

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: P735990 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-4S-VHE-S**

Issue Date: 1/29/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P735990 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-80-4S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

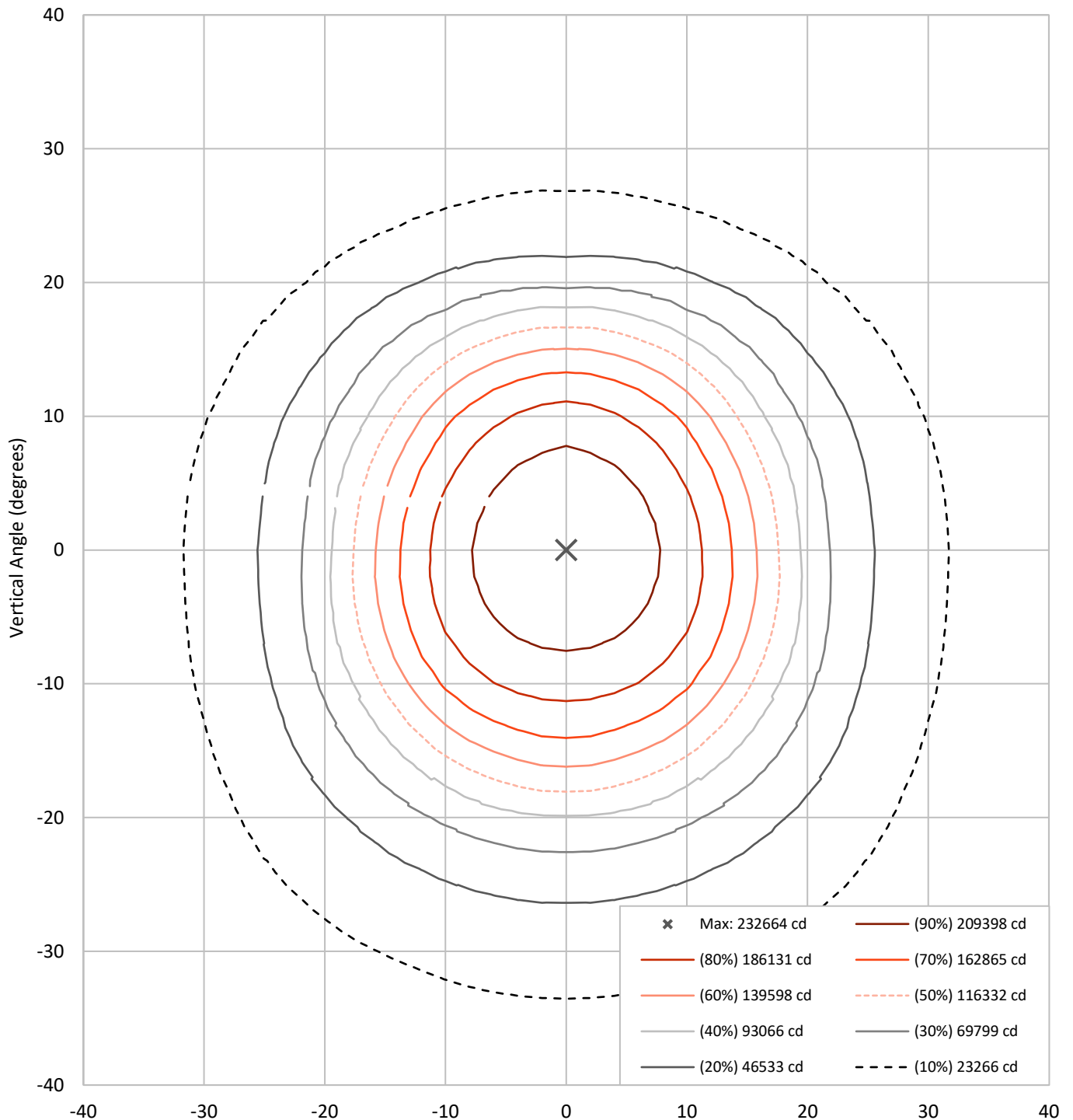
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	96513.7 lumens	Max Intensity:	232664 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	51801.8 lumens	Field Lumens:	84296.9 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 697.5  
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





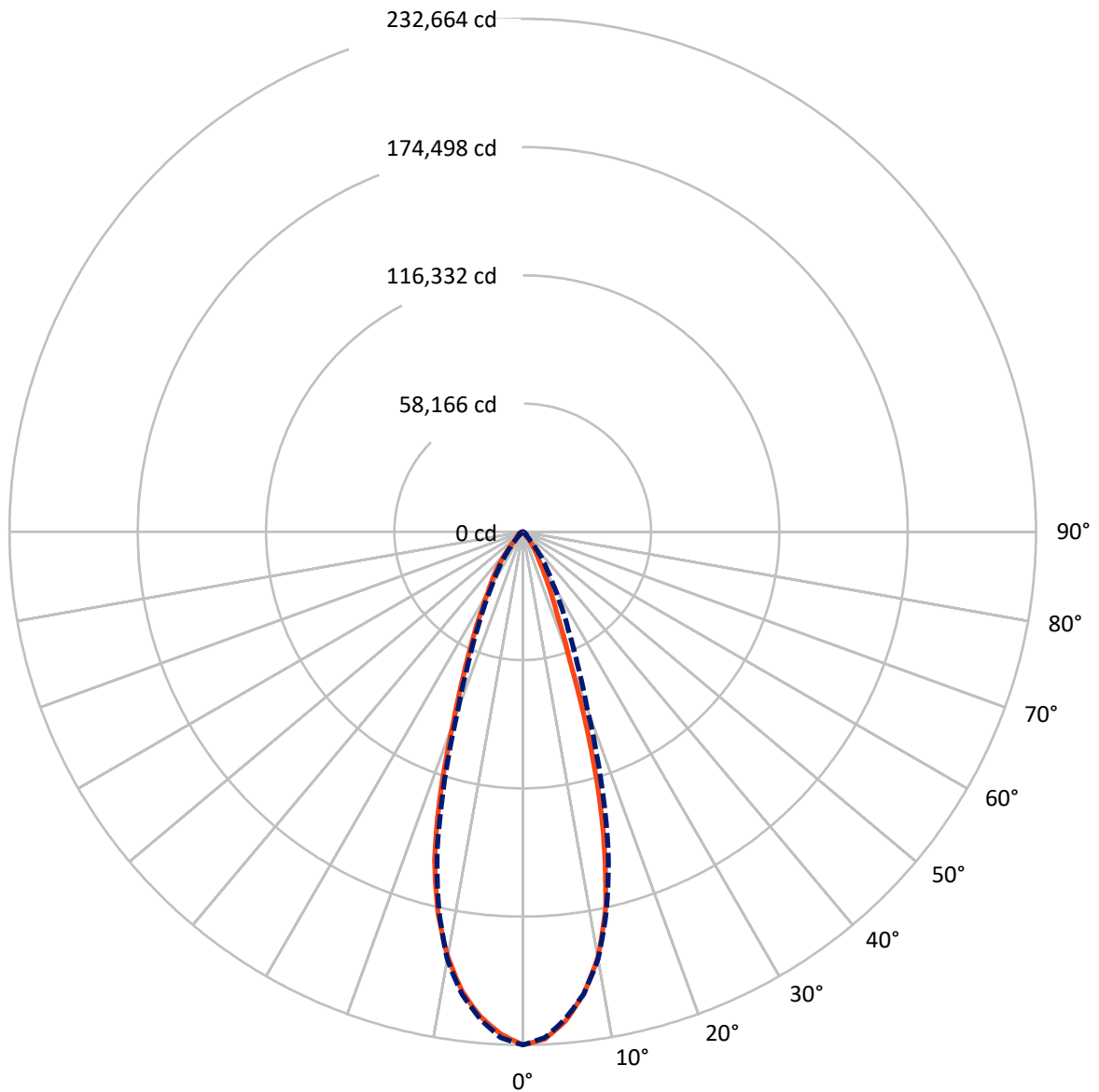
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### Lumen Table

90	0.3	1.0	1.8	2.5	2.8	2.5	1.8	1.0	0.3										
80	0.3	1.0	1.8	2.5	2.8	2.5	1.8	1.0	0.3										
70	0.3	0.2	0.3	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.3	0.2	0.3			
60		0.4	0.8	1.3	1.3	0.9	1.2	1.4	1.4	1.2	0.9	1.3	1.3	0.8	0.4				
50	0.9	1.2	2.7	5.5	10.1	16.0	23.4	30.2	30.2	23.4	16.0	10.1	5.5	2.7	1.2	0.9			
40		2.9	9.2	17.5	28.9	66.6	148.9	241.3	241.3	148.9	66.6	28.9	17.5	9.2	2.9				
30	2.1	5.1	15.3	29.7	93.2	286.5	625.2	948.1	948.1	625.2	286.5	93.2	29.7	15.3	5.1	2.1			
20		6.8	20.1	47.5	242.4	804.0	2148.2	3817.2	3817.2	2148.2	804.0	242.4	47.5	20.1	6.8				
10	3.1	8.4	23.6	65.8	379.4	1319.7	3905.8	6254.4	6254.4	3905.8	1319.7	379.4	65.8	23.6	8.4	3.1			
0		9.4	26.2	73.6	406.7	1386.0	4094.7	6303.9	6303.9	4094.7	1386.0	406.7	73.6	26.2	9.4				
-10	3.6	9.7	27.7	67.8	324.6	1023.8	2577.5	4234.7	4234.7	2577.5	1023.8	324.6	67.8	27.7	9.7	3.6			
-20		9.0	27.5	58.1	178.6	568.6	1116.4	1612.1	1612.1	1116.4	568.6	178.6	58.1	27.5	9.0				
-30	3.3	7.7	24.8	48.6	85.8	211.0	425.1	587.7	587.7	425.1	211.0	85.8	48.6	24.8	7.7	3.3			
-40		6.0	18.6	38.9	61.3	85.1	116.2	148.7	148.7	116.2	85.1	61.3	38.9	18.6	6.0				
-50	2.9	4.5	11.6	25.3	43.6	58.9	71.1	79.7	79.7	71.1	58.9	43.6	25.3	11.6	4.5	2.9			
-60		3.4	6.8	12.8	21.9	31.0	39.5	45.1	45.1	39.5	31.0	21.9	12.8	6.8	3.4				
-70	2.1	3.4	6.8	12.8	21.9	31.0	39.5	45.1	45.1	39.5	31.0	21.9	12.8	6.8	3.4	2.1			
-80		12.2	27.6	44.6	54.7	44.6	27.6	12.2											
-90	2.1	12.2	27.6	44.6	54.7	44.6	27.6	12.2	2.1										

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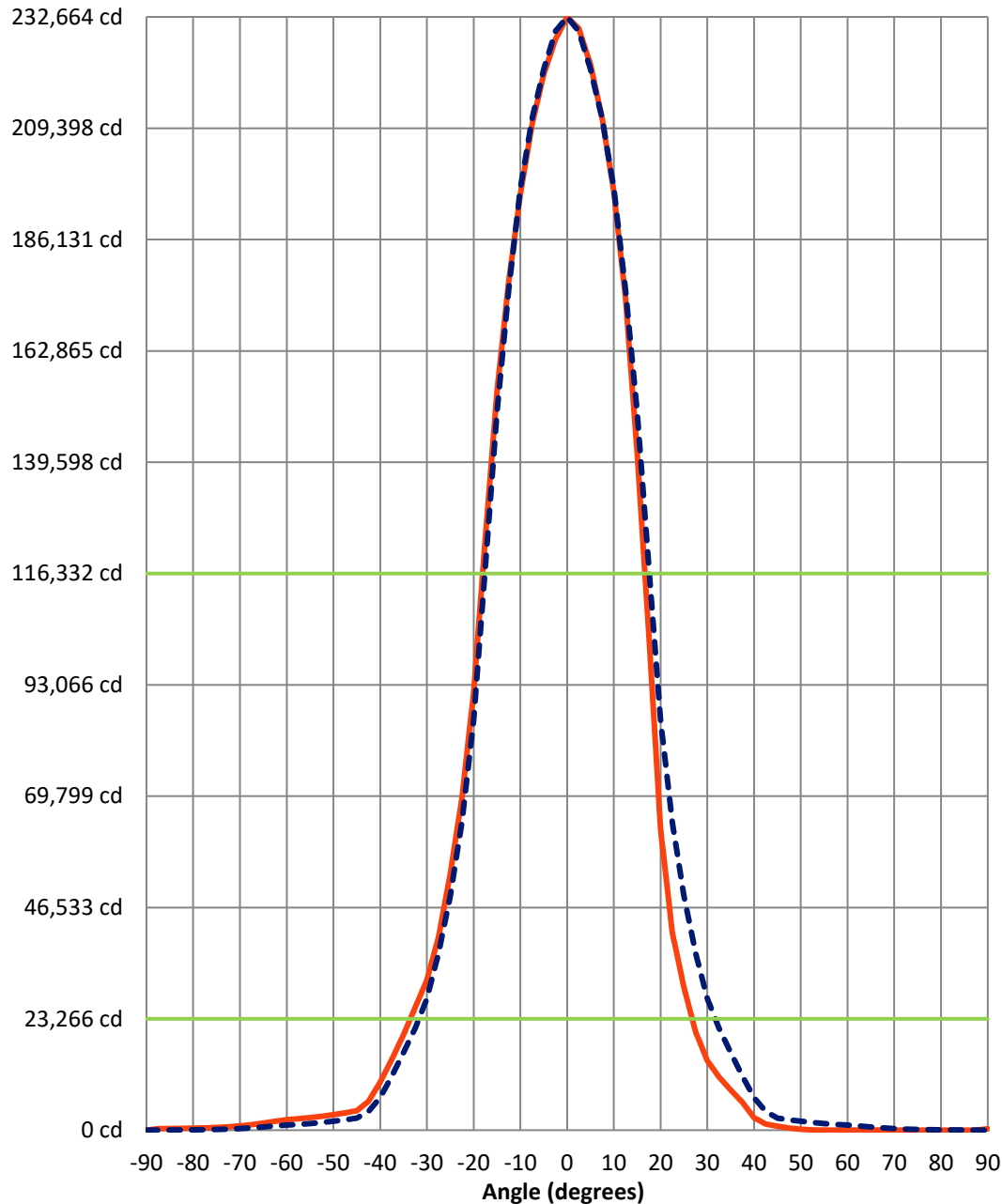
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 35.2°  
 V Angle: 34.7°  
 Lumens: 51801.8  
 Efficiency: 53.7%

**Field:**  
 H Angle: 63.4°  
 V Angle: 60.3°  
 Lumens: 84296.9  
 Efficiency: 87.3%

**Spill:**  
 Lumens: 12216.7  
 Efficiency: 12.7%

— 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°	10.4	19.6	28.8	47.2	65.6	82.3	99.0	112.3	125.5	134.1	142.7
87.5°	10.4	9.5	8.3	8.4	8.5	8.5	8.4	7.8	7.3	7.4	7.4
85°	10.4	9.7	8.5	8.7	8.9	8.8	8.7	8.2	7.7	7.8	7.9
82.5°	10.4	9.9	8.7	9.0	9.3	9.2	9.0	8.6	8.2	8.4	8.4
80°	10.4	10.1	9.0	9.3	9.7	9.6	9.3	9.2	9.0	9.0	8.9
77.5°	10.4	10.3	9.2	9.6	10.1	10.0	9.9	9.9	9.8	9.7	9.3
75°	10.4	10.5	9.4	9.9	10.5	10.6	10.6	10.6	10.6	10.2	9.5
72.5°	10.4	10.7	9.7	10.2	10.9	11.1	11.2	11.3	11.1	10.5	9.7
70°	10.4	10.9	10.0	10.5	11.3	11.6	11.8	11.9	11.6	10.9	10.6
67.5°	10.4	11.2	10.3	10.9	11.8	12.1	12.6	12.5	12.2	11.9	11.6
65°	10.4	11.4	10.6	11.4	12.3	12.8	13.5	13.2	13.6	12.9	13.1
62.5°	10.4	11.6	11.0	11.9	12.8	13.9	14.4	14.7	15.2	14.4	15.6
60°	10.4	11.9	11.3	12.3	13.3	15.0	15.5	16.7	17.0	18.1	18.6
57.5°	10.4	12.1	11.9	12.8	14.5	16.1	17.7	18.9	21.1	22.6	25.1
55°	10.4	12.3	12.6	13.3	15.7	17.3	20.1	21.5	26.2	28.6	33.7
52.5°	10.4	12.6	13.3	13.8	17.1	18.8	22.6	26.5	31.7	38.6	43.0
50°	10.4	12.8	14.1	14.3	18.5	21.4	25.3	32.1	38.8	49.3	55.7
47.5°	10.4	13.1	14.9	15.0	19.9	24.1	28.4	38.0	49.4	60.7	70.1
45°	10.4	13.3	15.7	16.2	21.5	26.9	33.6	44.0	60.6	74.8	85.5
42.5°	10.4	13.6	16.6	17.3	23.1	29.9	39.0	52.6	72.2	89.6	110.3
40°	10.4	13.8	17.5	19.1	25.1	33.0	44.6	63.0	85.0	105.1	138.8
37.5°	10.4	14.1	18.4	21.1	27.5	36.2	50.5	73.7	99.8	125.2	169.9
35°	10.4	14.3	19.4	23.1	29.9	40.4	56.4	84.5	115.2	154.0	207.5
32.5°	10.4	14.6	20.4	25.2	32.4	45.1	63.2	95.4	131.1	183.4	250.4
30°	10.4	14.8	21.4	27.2	34.9	49.8	72.0	106.5	147.6	213.4	291.3
27.5°	10.4	15.0	22.4	29.3	38.2	54.3	80.6	118.6	165.7	243.9	330.1
25°	10.4	15.3	23.5	31.4	41.6	58.8	88.8	130.1	186.5	275.6	367.0
22.5°	10.4	15.5	24.6	33.5	44.9	63.4	96.8	141.1	206.1	300.2	404.7
20°	10.4	15.8	25.6	35.6	48.2	68.7	104.5	151.5	224.2	323.1	435.2
17.5°	10.4	16.0	26.7	37.6	51.3	73.8	112.4	161.2	240.9	344.4	463.7
15°	10.4	16.2	27.7	39.7	54.4	78.7	120.3	171.0	256.1	364.0	490.5
12.5°	10.4	16.4	28.8	41.6	57.3	83.5	127.7	180.9	271.3	381.7	515.5
10°	10.4	16.6	29.8	43.6	60.1	88.0	134.5	190.1	286.4	404.5	542.8
7.5°	10.4	16.8	30.7	45.4	62.9	92.3	140.9	198.7	300.0	427.0	577.9
5°	10.4	17.0	31.7	47.2	65.4	96.4	146.7	206.5	312.2	447.9	611.0
2.5°	10.4	17.1	32.6	49.0	67.9	100.1	151.9	213.6	322.7	466.8	641.4
0°	10.4	17.3	33.4	50.6	70.2	103.6	156.5	219.8	331.5	483.4	668.7
-2.5°	10.4	17.9	34.7	52.7	73.5	107.8	161.9	227.3	343.2	497.0	682.4
-5°	10.4	18.5	35.9	54.8	76.6	111.6	166.6	234.0	352.9	507.8	692.4
-7.5°	10.4	19.1	37.0	56.7	79.5	115.1	170.7	239.5	360.4	515.8	698.7
-10°	10.4	19.7	38.1	58.5	82.2	118.2	174.1	244.1	365.7	520.8	701.4
-12.5°	10.4	20.2	39.1	60.2	84.7	121.0	176.7	247.5	368.4	522.7	704.5
-15°	10.4	20.7	40.0	61.7	87.0	123.4	178.7	249.7	368.0	520.4	704.3
-17.5°	10.4	21.2	40.9	63.1	89.1	125.4	179.8	251.1	364.4	514.6	698.4
-20°	10.4	21.7	41.7	64.4	90.9	127.0	180.7	251.9	358.6	505.3	686.3



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.4	22.1	42.3	65.5	92.4	128.2	181.6	251.5	350.6	492.5	668.5
-25°	10.4	22.5	42.9	66.4	93.7	129.7	181.7	250.0	340.4	475.9	649.8
-27.5°	10.4	22.9	43.5	67.2	94.7	131.1	180.9	247.5	328.1	461.7	633.8
-30°	10.4	23.2	43.9	67.7	95.5	132.0	179.3	243.8	320.7	448.5	612.9
-32.5°	10.4	23.5	44.2	68.2	96.8	132.4	176.8	240.7	316.4	431.9	586.7
-35°	10.4	23.8	44.5	68.4	97.8	132.4	175.9	237.0	310.4	411.8	555.2
-37.5°	10.4	24.0	44.7	68.5	98.5	132.4	175.4	232.2	302.6	388.2	525.0
-40°	10.4	24.1	44.7	68.4	98.9	133.0	174.3	226.1	293.0	373.0	495.6
-42.5°	10.4	24.3	44.7	68.3	99.3	133.2	172.5	218.7	283.7	360.6	462.6
-45°	10.4	24.4	44.6	68.5	99.5	133.1	169.9	212.5	273.7	345.8	429.1
-47.5°	10.4	24.4	44.4	68.4	99.4	132.6	166.7	208.7	262.2	328.7	409.6
-50°	10.4	24.4	44.2	68.4	99.0	131.8	165.0	204.3	249.1	313.5	387.3
-52.5°	10.4	24.4	43.8	68.3	98.3	130.6	163.3	199.2	240.4	296.3	361.7
-55°	10.4	24.3	43.3	68.0	97.3	129.0	161.1	193.9	233.2	277.4	337.1
-57.5°	10.4	24.2	42.8	67.6	96.0	127.0	158.5	190.7	225.1	265.3	310.7
-60°	10.4	24.0	42.2	66.9	94.5	124.7	155.5	186.8	216.9	254.6	287.3
-62.5°	10.4	23.9	41.5	66.1	93.2	122.1	152.1	182.2	211.1	242.3	272.4
-65°	10.4	23.6	40.8	65.1	91.7	119.0	148.1	177.0	204.7	232.3	256.9
-67.5°	10.4	23.4	40.0	63.9	89.9	116.0	143.8	171.2	197.7	222.9	244.7
-70°	10.4	23.1	39.0	62.5	87.9	112.9	139.1	165.0	190.3	213.0	233.6
-72.5°	10.4	22.7	38.0	61.1	85.7	109.4	134.3	158.4	182.4	203.1	222.1
-75°	10.4	22.4	36.9	59.5	83.2	105.7	129.2	151.6	174.2	192.8	210.2
-77.5°	10.4	22.0	35.7	57.8	80.7	101.7	123.7	144.5	165.5	182.1	197.9
-80°	10.4	21.5	34.4	55.9	78.0	98.0	117.9	137.0	156.5	171.3	185.7
-82.5°	10.4	21.1	33.1	53.9	75.1	94.3	113.4	130.1	147.1	160.3	173.2
-85°	10.4	20.6	31.7	51.8	72.1	90.5	108.8	124.3	140.0	150.9	161.8
-87.5°	10.4	20.1	30.3	49.5	68.9	86.5	104.0	118.4	132.9	142.6	152.3
-90°	10.4	9.3	8.1	8.1	8.1	8.1	8.1	7.5	6.9	6.9	6.9





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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°	149.1	155.4	161.2	166.9	173.8	180.7	187.6	194.5	202.0	209.5	217.0
87.5°	6.9	6.4	6.4	6.4	5.9	5.4	5.0	4.6	4.6	4.6	4.5
85°	7.4	6.9	6.9	6.9	6.5	6.1	5.6	5.1	5.2	5.2	5.0
82.5°	8.0	7.5	7.3	6.9	6.8	6.8	6.4	6.0	5.9	5.8	5.5
80°	8.5	8.2	7.7	7.3	7.2	7.0	6.8	6.7	6.4	6.0	5.9
77.5°	8.8	8.2	8.0	7.9	7.7	7.1	6.9	6.9	6.8	6.7	6.5
75°	8.8	8.3	8.2	8.2	7.7	7.1	6.9	7.2	7.2	7.0	6.8
72.5°	9.3	9.0	8.7	8.4	8.1	7.8	7.7	8.0	8.6	9.2	9.8
70°	10.3	9.8	9.5	9.3	8.8	8.8	9.8	11.7	13.6	14.4	16.3
67.5°	11.3	11.0	10.7	10.4	10.5	11.4	12.8	17.0	20.7	23.2	26.0
65°	12.5	12.3	12.4	12.5	12.7	16.2	20.0	24.2	30.6	34.3	34.4
62.5°	14.0	15.8	15.1	16.1	19.4	23.1	28.9	36.5	44.6	47.9	45.8
60°	19.9	20.8	21.3	23.8	27.0	31.1	39.1	48.3	57.7	63.5	54.9
57.5°	27.4	28.6	30.8	32.3	35.9	38.2	47.7	58.9	65.0	68.7	59.0
55°	36.8	38.6	41.8	42.5	45.5	46.5	54.5	62.1	67.3	68.4	58.0
52.5°	48.8	50.8	55.4	56.2	56.3	57.3	58.4	66.8	70.9	69.7	60.2
50°	61.7	68.8	71.3	73.8	70.4	71.9	68.1	77.8	86.1	83.9	86.7
47.5°	80.6	89.6	93.1	97.9	95.5	103.3	100.4	119.1	125.5	162.7	171.1
45°	103.5	119.3	124.1	135.1	146.2	155.4	185.4	187.8	266.3	299.0	360.8
42.5°	130.9	155.7	175.7	179.9	233.3	261.7	303.4	371.9	440.8	503.9	545.8
40°	171.7	197.3	240.3	290.5	347.2	408.5	464.0	543.6	610.3	659.9	689.5
37.5°	218.1	266.8	325.4	416.0	492.6	555.1	618.2	686.9	749.7	793.3	850.1
35°	269.0	340.0	448.7	542.9	625.2	684.0	745.6	818.5	877.9	948.1	1018.2
32.5°	330.8	414.7	551.1	652.8	719.7	789.2	860.3	937.1	1022.0	1108.6	1198.3
30°	392.0	498.8	632.1	737.8	802.5	883.6	970.0	1060.0	1171.4	1280.5	1401.7
27.5°	440.1	571.1	697.8	807.1	882.5	978.4	1083.9	1201.3	1333.6	1467.1	1628.1
25°	483.1	624.8	764.1	879.8	975.6	1082.0	1206.0	1346.9	1504.4	1692.0	2198.4
22.5°	525.0	677.1	837.2	957.8	1065.5	1185.7	1335.2	1499.7	1685.0	1934.3	2830.0
20°	568.0	736.4	907.2	1022.7	1147.6	1282.3	1457.5	1648.2	1877.9	2467.1	3788.2
17.5°	612.2	797.5	966.8	1079.6	1211.1	1375.5	1579.1	1794.3	2074.3	2966.0	4988.3
15°	655.3	855.1	1014.6	1130.0	1275.0	1466.2	1693.6	1957.3	2422.0	3662.2	6190.7
12.5°	696.5	906.9	1050.1	1173.2	1338.0	1551.7	1799.9	2095.8	2830.5	4601.7	7502.3
10°	735.2	952.7	1081.0	1214.6	1399.6	1632.1	1895.1	2217.8	3187.1	5352.5	8540.6
7.5°	777.2	992.0	1109.0	1253.9	1456.3	1705.6	1973.5	2311.6	3452.9	5928.2	9311.8
5°	815.4	1023.9	1141.3	1299.8	1512.7	1772.0	2040.7	2390.2	3634.3	6293.1	9847.1
2.5°	848.6	1049.5	1171.2	1343.5	1565.7	1830.1	2101.5	2468.8	3796.1	6601.6	10524.4
0°	877.1	1069.3	1198.2	1382.4	1611.4	1878.4	2151.2	2532.2	3904.2	6809.4	11309.8
-2.5°	894.5	1098.9	1243.1	1423.2	1649.2	1912.7	2196.2	2599.9	4013.8	7258.4	11609.0
-5°	906.9	1122.9	1283.4	1459.0	1679.7	1937.8	2229.1	2647.9	4061.0	7382.0	11521.9
-7.5°	914.1	1140.3	1317.9	1490.3	1707.0	1967.0	2281.1	2712.1	4082.3	7077.5	11028.1
-10°	917.9	1154.9	1340.5	1516.1	1732.4	1993.7	2321.6	2753.5	3994.6	6666.7	10460.0
-12.5°	927.8	1167.4	1358.5	1535.2	1749.2	2012.9	2353.1	2784.6	3794.9	6102.4	9679.3
-15°	930.4	1173.8	1373.6	1548.4	1766.8	2041.1	2376.9	2789.9	3506.4	5373.0	8682.4
-17.5°	925.2	1174.2	1384.1	1558.6	1775.6	2051.9	2384.5	2774.6	3290.9	4843.1	7679.4
-20°	911.7	1160.4	1387.3	1559.6	1772.3	2056.3	2388.3	2768.0	3238.4	4301.2	6463.1



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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°	889.8	1138.7	1376.1	1558.0	1783.8	2058.2	2377.2	2727.1	3124.3	3647.6	5252.3
-25°	866.4	1107.9	1346.9	1563.5	1786.1	2048.7	2330.7	2651.9	3018.8	3428.0	4388.4
-27.5°	841.0	1071.9	1316.9	1556.6	1775.2	2012.8	2274.8	2575.7	2877.9	3208.4	3617.5
-30°	810.4	1032.8	1276.8	1531.4	1749.4	1971.4	2213.0	2456.3	2727.1	3024.6	3371.1
-32.5°	773.7	986.9	1227.2	1478.6	1715.3	1923.3	2125.3	2343.9	2585.5	2847.9	3134.4
-35°	733.7	940.3	1168.8	1414.4	1673.6	1864.7	2040.2	2229.3	2443.3	2683.0	2949.2
-37.5°	693.3	886.6	1100.4	1339.9	1592.0	1792.0	1950.1	2126.5	2315.0	2520.3	2767.8
-40°	647.4	824.7	1029.2	1255.4	1479.0	1695.1	1868.9	2028.8	2194.4	2382.2	2584.4
-42.5°	597.9	764.4	951.1	1156.1	1359.2	1565.2	1782.9	1940.0	2088.2	2247.6	2424.8
-45°	556.6	697.9	866.7	1049.1	1232.1	1431.7	1641.7	1851.7	1987.0	2125.0	2276.0
-47.5°	508.7	630.4	784.8	936.7	1105.6	1293.8	1492.7	1687.5	1879.6	2013.9	2140.9
-50°	463.0	573.2	691.1	831.0	981.5	1155.2	1337.4	1515.6	1695.7	1877.5	2022.4
-52.5°	431.6	512.1	614.3	724.8	864.0	1017.5	1177.3	1336.0	1505.1	1678.7	1845.7
-55°	397.6	466.6	539.5	633.3	747.9	884.7	1017.6	1159.8	1305.1	1465.1	1627.9
-57.5°	365.4	422.5	479.7	551.0	647.4	751.9	868.5	985.2	1116.9	1250.9	1390.3
-60°	333.4	380.2	428.8	485.7	552.1	640.2	724.6	826.4	935.7	1045.9	1169.8
-62.5°	302.8	341.0	381.4	429.5	485.0	537.0	606.7	685.6	764.4	862.1	962.4
-65°	284.8	306.0	337.8	379.5	422.7	468.7	514.0	562.3	631.0	703.8	775.1
-67.5°	265.7	285.2	305.1	330.8	368.6	404.5	440.9	483.4	527.3	574.4	626.3
-70°	251.3	264.9	282.6	302.8	322.5	344.3	376.7	410.5	444.2	480.9	521.6
-72.5°	237.8	250.5	263.7	277.9	295.2	311.8	328.8	347.1	373.7	405.9	436.1
-75°	224.1	235.9	247.9	260.4	273.3	285.9	299.3	315.8	334.1	353.8	372.3
-77.5°	210.2	221.1	232.1	242.8	254.6	266.8	278.3	290.1	304.4	319.7	334.3
-80°	196.4	206.2	216.4	226.3	236.7	247.2	257.5	267.3	279.7	292.9	305.8
-82.5°	183.0	192.2	201.0	209.7	218.7	227.5	236.7	245.9	257.3	268.8	279.8
-85°	170.0	178.1	185.6	193.0	201.2	209.3	217.2	225.0	235.4	245.7	255.2
-87.5°	159.6	166.8	173.2	179.4	186.7	193.9	200.7	207.4	216.3	225.3	233.3
-90°	6.4	5.8	5.8	5.8	5.2	4.6	4.6	4.6	4.6	4.6	4.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	224.4	229.6	234.8	238.3	241.7	246.9	252.1	259.6	267.0	273.4	279.7
87.5°	4.4	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.3	2.3	2.3
85°	4.6	4.4	4.3	4.4	4.4	4.0	3.5	3.4	3.4	3.4	3.5
82.5°	5.2	4.9	4.6	4.6	4.6	4.5	4.4	4.0	3.5	3.5	3.5
80°	5.8	5.5	5.2	5.0	4.7	4.6	4.6	4.1	3.5	3.5	3.5
77.5°	6.0	5.9	5.8	5.3	4.7	4.6	4.6	4.1	3.6	3.5	3.5
75°	6.8	6.7	6.6	6.5	6.3	6.5	6.8	6.7	6.3	6.0	5.7
72.5°	10.4	10.4	10.2	10.8	11.4	11.9	12.2	12.6	13.0	13.9	14.9
70°	18.3	19.8	19.8	19.8	19.8	19.2	18.5	18.3	18.4	18.8	19.1
67.5°	27.7	28.8	29.3	29.6	27.0	25.3	24.6	24.6	25.7	27.8	30.8
65°	35.3	33.1	31.2	29.2	29.4	29.3	27.9	27.3	28.2	29.5	30.9
62.5°	41.9	33.3	27.8	25.1	25.5	26.4	23.9	22.0	21.4	21.0	21.1
60°	45.0	31.4	22.1	18.7	16.8	15.8	14.1	12.1	11.4	11.3	11.6
57.5°	45.5	29.9	17.6	13.9	10.6	8.2	6.9	6.1	6.1	5.8	5.7
55°	44.1	30.2	17.1	15.6	14.3	13.1	11.4	11.1	10.5	10.4	11.1
52.5°	45.7	42.4	34.7	33.6	41.0	41.3	35.5	43.7	49.2	53.6	55.6
50°	90.3	86.8	109.7	109.6	132.7	152.6	146.8	158.3	178.3	195.8	206.5
47.5°	211.1	227.6	261.9	292.7	327.4	371.3	390.8	404.6	422.0	445.5	461.2
45°	393.1	434.3	478.8	528.6	586.7	638.1	668.0	696.9	716.0	736.8	761.4
42.5°	583.7	632.8	698.8	758.3	821.2	881.3	928.6	970.4	1051.7	1167.7	1260.0
40°	746.9	802.6	879.3	958.7	1032.8	1108.8	1317.8	1496.0	1717.9	2049.3	2343.0
37.5°	908.9	973.4	1058.9	1156.2	1379.8	1606.1	2062.7	2555.8	2983.0	3462.1	3945.9
35°	1085.5	1170.2	1284.6	1612.0	2025.8	2629.2	3283.8	4016.2	4637.8	5306.8	6286.9
32.5°	1293.9	1441.9	1811.9	2406.9	3149.0	4006.1	4818.2	5738.8	6515.2	7744.3	9241.2
30°	1562.7	2026.8	2737.0	3558.6	4560.0	5644.9	6663.1	8154.2	9896.2	11438.3	12711.8
27.5°	2210.9	3107.5	4099.1	5140.3	6394.3	7708.9	9843.6	11773.5	13647.8	15313.0	17247.5
25°	3178.7	4617.1	6311.8	7707.6	9411.6	11787.6	14201.4	16326.9	19175.5	21681.0	24491.6
22.5°	4547.7	6595.9	8778.7	10816.7	13433.6	16409.3	19656.9	23573.2	27530.4	31926.1	35836.8
20°	5883.9	8475.3	11239.6	14173.4	17524.8	21245.3	26554.1	32909.8	39007.7	45933.1	51772.8
17.5°	7663.4	10795.9	14065.2	17794.6	22103.4	27827.3	35663.0	44353.6	53783.2	64124.6	73687.7
15°	9472.9	12847.6	16646.4	21419.5	27514.1	35293.5	45290.0	57120.5	70910.7	86113.0	104594.9
12.5°	10955.9	14646.1	19088.1	25103.3	33074.4	43478.1	55589.6	69830.8	88736.7	111665.8	133138.4
10°	12222.9	16647.7	22260.8	29379.8	38755.8	50500.6	64259.2	81890.7	107358.0	133920.6	157484.7
7.5°	13528.0	18762.7	24707.2	32425.8	43086.4	56417.8	73360.1	96384.5	124405.2	151649.6	173258.9
5°	14759.0	20204.9	26250.9	34497.4	46025.8	60343.8	79566.7	107610.6	138103.1	164787.2	185089.1
2.5°	15723.3	20930.2	27063.8	36040.1	47614.8	62477.5	83457.5	114552.4	146539.3	172837.6	193655.6
0°	16223.5	21323.6	27514.9	37005.0	48932.9	64435.8	85688.1	117615.9	149970.8	175580.8	196799.6
-2.5°	16112.8	21133.7	27235.6	36260.4	48631.6	64790.1	87542.8	119212.5	150561.9	176516.4	196514.0
-5°	15880.0	20834.6	26852.2	35345.4	47553.1	63899.4	85528.9	114645.1	144921.6	171545.1	190985.9
-7.5°	15446.0	20333.8	26087.6	34007.0	45765.5	61244.8	80763.3	106064.2	135109.4	161784.3	180604.6
-10°	14807.7	19560.1	24990.3	32192.8	42752.9	56970.4	73564.5	93322.8	120493.4	145432.8	166344.7
-12.5°	13900.5	18465.5	23467.9	29657.2	39114.3	51643.7	65949.5	82366.2	101785.3	125837.6	145439.3
-15°	12745.9	17039.3	21687.6	27527.4	35435.0	45701.1	57762.6	70498.1	85382.3	101985.1	121091.5
-17.5°	11329.0	15361.9	19690.7	24725.2	31120.4	39733.7	49274.9	59212.2	69955.8	82173.9	93399.0
-20°	9639.5	13328.3	17407.7	22090.4	27570.2	33791.8	40727.6	48761.1	57088.7	65809.1	73524.6



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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°	7923.9	11289.0	15176.2	19270.8	24033.7	28782.6	33441.0	39414.3	45845.3	52158.5	57901.3
-25°	6200.0	9170.8	12785.0	16625.5	20448.3	24327.3	28109.7	31818.8	36446.5	40510.1	44725.2
-27.5°	4924.5	7146.8	10181.7	13533.2	16864.3	20101.1	23371.3	26469.5	29388.0	31842.1	34683.8
-30°	3872.9	5372.9	7717.4	10354.7	13269.4	16121.3	18939.2	21556.5	23854.7	25875.3	27848.7
-32.5°	3501.6	4114.1	5507.3	7511.5	9811.0	12312.9	14668.4	16916.4	18811.1	20688.9	22457.1
-35°	3239.1	3576.4	4031.8	5283.8	6781.3	8772.4	10618.8	12484.4	14075.7	15951.0	17401.1
-37.5°	3024.0	3283.8	3571.7	3867.0	4777.6	5774.6	7103.9	8502.4	9731.7	11304.9	12585.1
-40°	2815.7	3045.6	3270.8	3495.3	3737.4	3959.9	4751.2	5472.4	6306.2	7382.4	8303.1
-42.5°	2614.4	2816.9	3011.8	3194.3	3363.5	3509.5	3668.8	3821.4	4271.7	4820.2	5241.4
-45°	2433.6	2605.8	2768.9	2923.2	3052.2	3169.1	3291.8	3419.5	3586.9	3739.1	3864.7
-47.5°	2280.0	2416.1	2549.8	2675.5	2774.5	2874.3	2972.0	3082.2	3212.6	3340.3	3447.1
-50°	2141.0	2258.8	2360.3	2449.3	2531.6	2616.0	2693.8	2791.7	2896.7	3002.3	3090.7
-52.5°	2007.9	2112.7	2197.4	2265.2	2327.9	2396.8	2463.7	2541.8	2627.0	2715.9	2786.1
-55°	1784.2	1917.3	2040.4	2104.1	2153.3	2210.1	2266.8	2330.0	2401.9	2476.6	2532.2
-57.5°	1536.9	1668.3	1784.3	1866.9	1948.5	2031.8	2094.2	2143.7	2208.7	2272.5	2320.5
-60°	1288.6	1398.8	1501.2	1584.8	1669.8	1753.2	1823.4	1887.9	1968.3	2041.5	2101.0
-62.5°	1057.4	1153.8	1232.9	1300.5	1373.0	1445.5	1512.3	1576.0	1649.1	1714.8	1770.5
-65°	847.4	928.2	986.7	1039.8	1097.5	1157.5	1210.5	1263.2	1322.0	1374.5	1420.2
-67.5°	685.2	738.8	775.3	809.1	854.9	901.5	943.0	985.0	1029.9	1069.7	1104.3
-70°	560.9	594.4	616.8	642.8	675.4	705.2	732.5	763.2	796.2	826.7	854.3
-72.5°	465.0	488.0	504.8	525.5	546.2	565.1	582.4	604.4	628.5	652.0	674.4
-75°	389.5	404.4	420.5	435.4	449.6	463.4	476.1	493.8	512.3	530.0	547.0
-77.5°	349.5	360.6	369.6	377.9	385.7	394.6	403.3	418.3	434.5	448.1	461.0
-80°	318.5	327.1	334.6	340.9	346.8	354.0	361.3	373.6	386.3	397.8	409.0
-82.5°	290.6	298.0	305.0	310.8	316.3	322.6	328.8	339.5	350.5	360.3	369.9
-85°	264.6	271.1	277.3	282.4	287.5	293.3	299.0	308.3	317.7	326.4	335.0
-87.5°	241.4	247.0	252.7	256.6	260.4	266.0	271.5	279.8	288.1	295.8	303.5
-90°	3.5	3.5	3.5	2.9	2.3	2.3	2.3	2.3	2.3	1.8	1.2



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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°	283.2	286.6	287.2	287.8	287.2	286.6	283.2	279.7	273.4	267.0	259.6
87.5°	1.7	1.2	1.7	2.3	1.7	1.2	1.7	2.3	2.3	2.3	2.9
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1
77.5°	3.0	2.4	2.9	3.5	2.9	2.4	3.0	3.5	3.5	3.6	4.1
75°	5.1	4.6	4.1	3.5	4.1	4.6	5.1	5.7	6.0	6.3	6.7
72.5°	15.4	15.8	16.6	17.3	16.6	15.8	15.4	14.9	13.9	13.0	12.6
70°	18.5	17.4	17.3	17.3	17.3	17.4	18.5	19.1	18.8	18.4	18.3
67.5°	33.0	34.9	35.5	35.7	35.5	34.9	33.0	30.8	27.8	25.7	24.6
65°	32.1	33.3	33.4	33.4	33.4	33.3	32.1	30.9	29.5	28.2	27.3
62.5°	21.5	22.1	22.5	23.0	22.5	22.1	21.5	21.1	21.0	21.4	22.0
60°	12.1	12.8	13.3	13.8	13.3	12.8	12.1	11.6	11.3	11.4	12.1
57.5°	5.6	6.0	6.3	6.9	6.3	6.0	5.6	5.7	5.8	6.1	6.1
55°	11.6	12.3	12.6	12.7	12.6	12.3	11.6	11.1	10.4	10.5	11.1
52.5°	54.6	52.0	49.9	48.3	49.9	52.0	54.6	55.6	53.6	49.2	43.7
50°	210.9	205.8	200.0	194.5	200.0	205.8	210.9	206.5	195.8	178.3	158.3
47.5°	470.6	466.5	457.8	446.6	457.8	466.5	470.6	461.2	445.5	422.0	404.6
45°	795.3	818.4	828.6	823.0	828.6	818.4	795.3	761.4	736.8	716.0	696.9
42.5°	1291.4	1311.7	1313.5	1283.4	1313.5	1311.7	1291.4	1260.0	1167.7	1051.7	970.4
40°	2555.4	2732.5	2793.2	2610.5	2793.2	2732.5	2555.4	2343.0	2049.3	1717.9	1496.0
37.5°	4529.1	5224.9	5805.2	5827.6	5805.2	5224.9	4529.1	3945.9	3462.1	2983.0	2555.8
35°	7340.2	8056.0	8402.1	8387.4	8402.1	8056.0	7340.2	6286.9	5306.8	4637.8	4016.2
32.5°	10316.8	10859.1	11205.7	11122.2	11205.7	10859.1	10316.8	9241.2	7744.3	6515.2	5738.8
30°	13621.4	14124.5	14528.5	14522.3	14528.5	14124.5	13621.4	12711.8	11438.3	9896.2	8154.2
27.5°	18822.1	19858.9	20682.9	20543.2	20682.9	19858.9	18822.1	17247.5	15313.0	13647.8	11773.5
25°	26862.4	28758.8	30099.7	29823.8	30099.7	28758.8	26862.4	24491.6	21681.0	19175.5	16326.9
22.5°	38740.1	41172.9	42190.2	41383.4	42190.2	41172.9	38740.1	35836.8	31926.1	27530.4	23573.2
20°	57336.1	61846.7	64650.8	62978.6	64650.8	61846.7	57336.1	51772.8	45933.1	39007.7	32909.8
17.5°	86065.0	95850.2	103581.8	103368.7	103581.8	95850.2	86065.0	73687.7	64124.6	53783.2	44353.6
15°	120686.1	131823.7	140399.5	141391.2	140399.5	131823.7	120686.1	104594.9	86113.0	70910.7	57120.5
12.5°	151685.7	163012.7	171404.9	173819.7	171404.9	163012.7	151685.7	133138.4	111665.8	88736.7	69830.8
10°	173779.0	185082.5	193205.5	196069.9	193205.5	185082.5	173779.0	157484.7	133920.6	107358.0	81890.7
7.5°	189986.4	202249.7	208338.7	211450.9	208338.7	202249.7	189986.4	173258.9	151649.6	124405.2	96384.5
5°	201648.7	213045.9	218936.5	222707.7	218936.5	213045.9	201648.7	185089.1	164787.2	138103.1	107610.6
2.5°	209000.4	219760.4	226834.2	230216.9	226834.2	219760.4	209000.4	193655.6	172837.6	146539.3	114552.4
0°	211373.2	221702.9	229631.7	232664.0	229631.7	221702.9	211373.2	196799.6	175580.8	149970.8	117615.9
-2.5°	210269.5	220388.3	226712.1	227937.9	226712.1	220388.3	210269.5	196514.0	176516.4	150561.9	119212.5
-5°	204525.9	213852.1	219691.3	220650.9	219691.3	213852.1	204525.9	190985.9	171545.1	144921.6	114645.1
-7.5°	194624.0	203927.2	208753.8	210174.9	208753.8	203927.2	194624.0	180604.6	161784.3	135109.4	106064.2
-10°	180267.2	189255.2	194413.6	195637.1	194413.6	189255.2	180267.2	166344.7	145432.8	120493.4	93322.8
-12.5°	160677.0	170265.4	176038.8	177310.8	176038.8	170265.4	160677.0	145439.3	125837.6	101785.3	82366.2
-15°	135274.4	145137.3	152507.5	154290.5	152507.5	145137.3	135274.4	121091.5	101985.1	85382.3	70498.1
-17.5°	105992.7	115862.4	122485.3	123749.7	122485.3	115862.4	105992.7	93399.0	82173.9	69955.8	59212.2
-20°	80773.4	87121.0	90858.9	91509.9	90858.9	87121.0	80773.4	73524.6	65809.1	57088.7	48761.1



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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°	62594.5	66860.8	69136.5	69457.7	69136.5	66860.8	62594.5	57901.3	52158.5	45845.3	39414.3
-25°	48504.8	51604.5	53299.6	53581.8	53299.6	51604.5	48504.8	44725.2	40510.1	36446.5	31818.8
-27.5°	37243.3	39168.9	40746.1	40417.7	40746.1	39168.9	37243.3	34683.8	31842.1	29388.0	26469.5
-30°	29470.1	30705.1	31636.7	31392.6	31636.7	30705.1	29470.1	27848.7	25875.3	23854.7	21556.5
-32.5°	23852.1	24819.7	25474.6	25649.1	25474.6	24819.7	23852.1	22457.1	20688.9	18811.1	16916.4
-35°	18539.0	19329.7	19783.4	19959.7	19783.4	19329.7	18539.0	17401.1	15951.0	14075.7	12484.4
-37.5°	13535.4	14228.9	14661.9	14812.3	14661.9	14228.9	13535.4	12585.1	11304.9	9731.7	8502.4
-40°	9008.1	9542.6	9897.2	10034.5	9897.2	9542.6	9008.1	8303.1	7382.4	6306.2	5472.4
-42.5°	5569.6	5819.8	5978.2	6027.8	5978.2	5819.8	5569.6	5241.4	4820.2	4271.7	3821.4
-45°	3961.8	4030.9	4070.4	4078.0	4070.4	4030.9	3961.8	3864.7	3739.1	3586.9	3419.5
-47.5°	3530.7	3585.1	3613.0	3614.2	3613.0	3585.1	3530.7	3447.1	3340.3	3212.6	3082.2
-50°	3163.7	3214.1	3239.5	3241.2	3239.5	3214.1	3163.7	3090.7	3002.3	2896.7	2791.7
-52.5°	2843.6	2883.9	2902.5	2902.8	2902.5	2883.9	2843.6	2786.1	2715.9	2627.0	2541.8
-55°	2577.9	2609.2	2620.8	2618.5	2620.8	2609.2	2577.9	2532.2	2476.6	2401.9	2330.0
-57.5°	2360.5	2391.2	2400.8	2397.6	2400.8	2391.2	2360.5	2320.5	2272.5	2208.7	2143.7
-60°	2147.4	2180.1	2192.5	2191.5	2192.5	2180.1	2147.4	2101.0	2041.5	1968.3	1887.9
-62.5°	1810.3	1835.4	1848.9	1853.1	1848.9	1835.4	1810.3	1770.5	1714.8	1649.1	1576.0
-65°	1451.7	1471.8	1482.6	1486.0	1482.6	1471.8	1451.7	1420.2	1374.5	1322.0	1263.2
-67.5°	1126.8	1141.2	1148.1	1149.9	1148.1	1141.2	1126.8	1104.3	1069.7	1029.9	985.0
-70°	871.4	883.2	888.8	890.9	888.8	883.2	871.4	854.3	826.7	796.2	763.2
-72.5°	687.3	696.8	700.6	702.1	700.6	696.8	687.3	674.4	652.0	628.5	604.4
-75°	555.0	560.6	562.9	564.0	562.9	560.6	555.0	547.0	530.0	512.3	493.8
-77.5°	468.1	474.1	476.2	477.7	476.2	474.1	468.1	461.0	448.1	434.5	418.3
-80°	414.1	418.3	420.0	421.3	420.0	418.3	414.1	409.0	397.8	386.3	373.6
-82.5°	375.9	381.6	382.0	382.1	382.0	381.6	375.9	369.9	360.3	350.5	339.5
-85°	339.6	343.9	344.7	345.3	344.7	343.9	339.6	335.0	326.4	317.7	308.3
-87.5°	307.7	311.8	311.9	311.9	311.9	311.8	307.7	303.5	295.8	288.1	279.8
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	252.1	246.9	241.7	238.3	234.8	229.6	224.4	217.0	209.5	202.0	194.5
87.5°	3.4	3.4	3.4	3.4	3.5	4.0	4.4	4.5	4.6	4.6	4.6
85°	3.5	4.0	4.4	4.4	4.3	4.4	4.6	5.0	5.2	5.2	5.1
82.5°	4.4	4.5	4.6	4.6	4.6	4.9	5.2	5.5	5.8	5.9	6.0
80°	4.6	4.6	4.7	5.0	5.2	5.5	5.8	5.9	6.0	6.4	6.7
77.5°	4.6	4.6	4.7	5.3	5.8	5.9	6.0	6.5	6.7	6.8	6.9
75°	6.8	6.5	6.3	6.5	6.6	6.7	6.8	6.8	7.0	7.2	7.2
72.5°	12.2	11.9	11.4	10.8	10.2	10.4	10.4	9.8	9.2	8.6	8.0
70°	18.5	19.2	19.8	19.8	19.8	19.8	18.3	16.3	14.4	13.6	11.7
67.5°	24.6	25.3	27.0	29.6	29.3	28.8	27.7	26.0	23.2	20.7	17.0
65°	27.9	29.3	29.4	29.2	31.2	33.1	35.3	34.4	34.3	30.6	24.2
62.5°	23.9	26.4	25.5	25.1	27.8	33.3	41.9	45.8	47.9	44.6	36.5
60°	14.1	15.8	16.8	18.7	22.1	31.4	45.0	54.9	63.5	57.7	48.3
57.5°	6.9	8.2	10.6	13.9	17.6	29.9	45.5	59.0	68.7	65.0	58.9
55°	11.4	13.1	14.3	15.6	17.1	30.2	44.1	58.0	68.4	67.3	62.1
52.5°	35.5	41.3	41.0	33.6	34.7	42.4	45.7	60.2	69.7	70.9	66.8
50°	146.8	152.6	132.7	109.6	109.7	86.8	90.3	86.7	83.9	86.1	77.8
47.5°	390.8	371.3	327.4	292.7	261.9	227.6	211.1	171.1	162.7	125.5	119.1
45°	668.0	638.1	586.7	528.6	478.8	434.3	393.1	360.8	299.0	266.3	187.8
42.5°	928.6	881.3	821.2	758.3	698.8	632.8	583.7	545.8	503.9	440.8	371.9
40°	1317.8	1108.8	1032.8	958.7	879.3	802.6	746.9	689.5	659.9	610.3	543.6
37.5°	2062.7	1606.1	1379.8	1156.2	1058.9	973.4	908.9	850.1	793.3	749.7	686.9
35°	3283.8	2629.2	2025.8	1612.0	1284.6	1170.2	1085.5	1018.2	948.1	877.9	818.5
32.5°	4818.2	4006.1	3149.0	2406.9	1811.9	1441.9	1293.9	1198.3	1108.6	1022.0	937.1
30°	6663.1	5644.9	4560.0	3558.6	2737.0	2026.8	1562.7	1401.7	1280.5	1171.4	1060.0
27.5°	9843.6	7708.9	6394.3	5140.3	4099.1	3107.5	2210.9	1628.1	1467.1	1333.6	1201.3
25°	14201.4	11787.6	9411.6	7707.6	6311.8	4617.1	3178.7	2198.4	1692.0	1504.4	1346.9
22.5°	19656.9	16409.3	13433.6	10816.7	8778.7	6595.9	4547.7	2830.0	1934.3	1685.0	1499.7
20°	26554.1	21245.3	17524.8	14173.4	11239.6	8475.3	5883.9	3788.2	2467.1	1877.9	1648.2
17.5°	35663.0	27827.3	22103.4	17794.6	14065.2	10795.9	7663.4	4988.3	2966.0	2074.3	1794.3
15°	45290.0	35293.5	27514.1	21419.5	16646.4	12847.6	9472.9	6190.7	3662.2	2422.0	1957.3
12.5°	55589.6	43478.1	33074.4	25103.3	19088.1	14646.1	10955.9	7502.3	4601.7	2830.5	2095.8
10°	64259.2	50500.6	38755.8	29379.8	22260.8	16647.7	12222.9	8540.6	5352.5	3187.1	2217.8
7.5°	73360.1	56417.8	43086.4	32425.8	24707.2	18762.7	13528.0	9311.8	5928.2	3452.9	2311.6
5°	79566.7	60343.8	46025.8	34497.4	26250.9	20204.9	14759.0	9847.1	6293.1	3634.3	2390.2
2.5°	83457.5	62477.5	47614.8	36040.1	27063.8	20930.2	15723.3	10524.4	6601.6	3796.1	2468.8
0°	85688.1	64435.8	48932.9	37005.0	27514.9	21323.6	16223.5	11309.8	6809.4	3904.2	2532.2
-2.5°	87542.8	64790.1	48631.6	36260.4	27235.6	21133.7	16112.8	11609.0	7258.4	4013.8	2599.9
-5°	85528.9	63899.4	47553.1	35345.4	26852.2	20834.6	15880.0	11521.9	7382.0	4061.0	2647.9
-7.5°	80763.3	61244.8	45765.5	34007.0	26087.6	20333.8	15446.0	11028.1	7077.5	4082.3	2712.1
-10°	73564.5	56970.4	42752.9	32192.8	24990.3	19560.1	14807.7	10460.0	6666.7	3994.6	2753.5
-12.5°	65949.5	51643.7	39114.3	29657.2	23467.9	18465.5	13900.5	9679.3	6102.4	3794.9	2784.6
-15°	57762.6	45701.1	35435.0	27527.4	21687.6	17039.3	12745.9	8682.4	5373.0	3506.4	2789.9
-17.5°	49274.9	39733.7	31120.4	24725.2	19690.7	15361.9	11329.0	7679.4	4843.1	3290.9	2774.6
-20°	40727.6	33791.8	27570.2	22090.4	17407.7	13328.3	9639.5	6463.1	4301.2	3238.4	2768.0



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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°	33441.0	28782.6	24033.7	19270.8	15176.2	11289.0	7923.9	5252.3	3647.6	3124.3	2727.1
-25°	28109.7	24327.3	20448.3	16625.5	12785.0	9170.8	6200.0	4388.4	3428.0	3018.8	2651.9
-27.5°	23371.3	20101.1	16864.3	13533.2	10181.7	7146.8	4924.5	3617.5	3208.4	2877.9	2575.7
-30°	18939.2	16121.3	13269.4	10354.7	7717.4	5372.9	3872.9	3371.1	3024.6	2727.1	2456.3
-32.5°	14668.4	12312.9	9811.0	7511.5	5507.3	4114.1	3501.6	3134.4	2847.9	2585.5	2343.9
-35°	10618.8	8772.4	6781.3	5283.8	4031.8	3576.4	3239.1	2949.2	2683.0	2443.3	2229.3
-37.5°	7103.9	5774.6	4777.6	3867.0	3571.7	3283.8	3024.0	2767.8	2520.3	2315.0	2126.5
-40°	4751.2	3959.9	3737.4	3495.3	3270.8	3045.6	2815.7	2584.4	2382.2	2194.4	2028.8
-42.5°	3668.8	3509.5	3363.5	3194.3	3011.8	2816.9	2614.4	2424.8	2247.6	2088.2	1940.0
-45°	3291.8	3169.1	3052.2	2923.2	2768.9	2605.8	2433.6	2276.0	2125.0	1987.0	1851.7
-47.5°	2972.0	2874.3	2774.5	2675.5	2549.8	2416.1	2280.0	2140.9	2013.9	1879.6	1687.5
-50°	2693.8	2616.0	2531.6	2449.3	2360.3	2258.8	2141.0	2022.4	1877.5	1695.7	1515.6
-52.5°	2463.7	2396.8	2327.9	2265.2	2197.4	2112.7	2007.9	1845.7	1678.7	1505.1	1336.0
-55°	2266.8	2210.1	2153.3	2104.1	2040.4	1917.3	1784.2	1627.9	1465.1	1305.1	1159.8
-57.5°	2094.2	2031.8	1948.5	1866.9	1784.3	1668.3	1536.9	1390.3	1250.9	1116.9	985.2
-60°	1823.4	1753.2	1669.8	1584.8	1501.2	1398.8	1288.6	1169.8	1045.9	935.7	826.4
-62.5°	1512.3	1445.5	1373.0	1300.5	1232.9	1153.8	1057.4	962.4	862.1	764.4	685.6
-65°	1210.5	1157.5	1097.5	1039.8	986.7	928.2	847.4	775.1	703.8	631.0	562.3
-67.5°	943.0	901.5	854.9	809.1	775.3	738.8	685.2	626.3	574.4	527.3	483.4
-70°	732.5	705.2	675.4	642.8	616.8	594.4	560.9	521.6	480.9	444.2	410.5
-72.5°	582.4	565.1	546.2	525.5	504.8	488.0	465.0	436.1	405.9	373.7	347.1
-75°	476.1	463.4	449.6	435.4	420.5	404.4	389.5	372.3	353.8	334.1	315.8
-77.5°	403.3	394.6	385.7	377.9	369.6	360.6	349.5	334.3	319.7	304.4	290.1
-80°	361.3	354.0	346.8	340.9	334.6	327.1	318.5	305.8	292.9	279.7	267.3
-82.5°	328.8	322.6	316.3	310.8	305.0	298.0	290.6	279.8	268.8	257.3	245.9
-85°	299.0	293.3	287.5	282.4	277.3	271.1	264.6	255.2	245.7	235.4	225.0
-87.5°	271.5	266.0	260.4	256.6	252.7	247.0	241.4	233.3	225.3	216.3	207.4
-90°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	4.1	4.6	4.6	4.6





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	187.6	180.7	173.8	166.9	161.2	155.4	149.1	142.7	134.1	125.5	112.3
87.5°	5.0	5.4	5.9	6.4	6.4	6.4	6.9	7.4	7.4	7.3	7.8
85°	5.6	6.1	6.5	6.9	6.9	6.9	7.4	7.9	7.8	7.7	8.2
82.5°	6.4	6.8	6.8	6.9	7.3	7.5	8.0	8.4	8.4	8.2	8.6
80°	6.8	7.0	7.2	7.3	7.7	8.2	8.5	8.9	9.0	9.0	9.2
77.5°	6.9	7.1	7.7	7.9	8.0	8.2	8.8	9.3	9.7	9.8	9.9
75°	6.9	7.1	7.7	8.2	8.2	8.3	8.8	9.5	10.2	10.6	10.6
72.5°	7.7	7.8	8.1	8.4	8.7	9.0	9.3	9.7	10.5	11.1	11.3
70°	9.8	8.8	8.8	9.3	9.5	9.8	10.3	10.6	10.9	11.6	11.9
67.5°	12.8	11.4	10.5	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5
65°	20.0	16.2	12.7	12.5	12.4	12.3	12.5	13.1	12.9	13.6	13.2
62.5°	28.9	23.1	19.4	16.1	15.1	15.8	14.0	15.6	14.4	15.2	14.7
60°	39.1	31.1	27.0	23.8	21.3	20.8	19.9	18.6	18.1	17.0	16.7
57.5°	47.7	38.2	35.9	32.3	30.8	28.6	27.4	25.1	22.6	21.1	18.9
55°	54.5	46.5	45.5	42.5	41.8	38.6	36.8	33.7	28.6	26.2	21.5
52.5°	58.4	57.3	56.3	56.2	55.4	50.8	48.8	43.0	38.6	31.7	26.5
50°	68.1	71.9	70.4	73.8	71.3	68.8	61.7	55.7	49.3	38.8	32.1
47.5°	100.4	103.3	95.5	97.9	93.1	89.6	80.6	70.1	60.7	49.4	38.0
45°	185.4	155.4	146.2	135.1	124.1	119.3	103.5	85.5	74.8	60.6	44.0
42.5°	303.4	261.7	233.3	179.9	175.7	155.7	130.9	110.3	89.6	72.2	52.6
40°	464.0	408.5	347.2	290.5	240.3	197.3	171.7	138.8	105.1	85.0	63.0
37.5°	618.2	555.1	492.6	416.0	325.4	266.8	218.1	169.9	125.2	99.8	73.7
35°	745.6	684.0	625.2	542.9	448.7	340.0	269.0	207.5	154.0	115.2	84.5
32.5°	860.3	789.2	719.7	652.8	551.1	414.7	330.8	250.4	183.4	131.1	95.4
30°	970.0	883.6	802.5	737.8	632.1	498.8	392.0	291.3	213.4	147.6	106.5
27.5°	1083.9	978.4	882.5	807.1	697.8	571.1	440.1	330.1	243.9	165.7	118.6
25°	1206.0	1082.0	975.6	879.8	764.1	624.8	483.1	367.0	275.6	186.5	130.1
22.5°	1335.2	1185.7	1065.5	957.8	837.2	677.1	525.0	404.7	300.2	206.1	141.1
20°	1457.5	1282.3	1147.6	1022.7	907.2	736.4	568.0	435.2	323.1	224.2	151.5
17.5°	1579.1	1375.5	1211.1	1079.6	966.8	797.5	612.2	463.7	344.4	240.9	161.2
15°	1693.6	1466.2	1275.0	1130.0	1014.6	855.1	655.3	490.5	364.0	256.1	171.0
12.5°	1799.9	1551.7	1338.0	1173.2	1050.1	906.9	696.5	515.5	381.7	271.3	180.9
10°	1895.1	1632.1	1399.6	1214.6	1081.0	952.7	735.2	542.8	404.5	286.4	190.1
7.5°	1973.5	1705.6	1456.3	1253.9	1109.0	992.0	777.2	577.9	427.0	300.0	198.7
5°	2040.7	1772.0	1512.7	1299.8	1141.3	1023.9	815.4	611.0	447.9	312.2	206.5
2.5°	2101.5	1830.1	1565.7	1343.5	1171.2	1049.5	848.6	641.4	466.8	322.7	213.6
0°	2151.2	1878.4	1611.4	1382.4	1198.2	1069.3	877.1	668.7	483.4	331.5	219.8
-2.5°	2196.2	1912.7	1649.2	1423.2	1243.1	1098.9	894.5	682.4	497.0	343.2	227.3
-5°	2229.1	1937.8	1679.7	1459.0	1283.4	1122.9	906.9	692.4	507.8	352.9	234.0
-7.5°	2281.1	1967.0	1707.0	1490.3	1317.9	1140.3	914.1	698.7	515.8	360.4	239.5
-10°	2321.6	1993.7	1732.4	1516.1	1340.5	1154.9	917.9	701.4	520.8	365.7	244.1
-12.5°	2353.1	2012.9	1749.2	1535.2	1358.5	1167.4	927.8	704.5	522.7	368.4	247.5
-15°	2376.9	2041.1	1766.8	1548.4	1373.6	1173.8	930.4	704.3	520.4	368.0	249.7
-17.5°	2384.5	2051.9	1775.6	1558.6	1384.1	1174.2	925.2	698.4	514.6	364.4	251.1
-20°	2388.3	2056.3	1772.3	1559.6	1387.3	1160.4	911.7	686.3	505.3	358.6	251.9



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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°	2377.2	2058.2	1783.8	1558.0	1376.1	1138.7	889.8	668.5	492.5	350.6	251.5
-25°	2330.7	2048.7	1786.1	1563.5	1346.9	1107.9	866.4	649.8	475.9	340.4	250.0
-27.5°	2274.8	2012.8	1775.2	1556.6	1316.9	1071.9	841.0	633.8	461.7	328.1	247.5
-30°	2213.0	1971.4	1749.4	1531.4	1276.8	1032.8	810.4	612.9	448.5	320.7	243.8
-32.5°	2125.3	1923.3	1715.3	1478.6	1227.2	986.9	773.7	586.7	431.9	316.4	240.7
-35°	2040.2	1864.7	1673.6	1414.4	1168.8	940.3	733.7	555.2	411.8	310.4	237.0
-37.5°	1950.1	1792.0	1592.0	1339.9	1100.4	886.6	693.3	525.0	388.2	302.6	232.2
-40°	1868.9	1695.1	1479.0	1255.4	1029.2	824.7	647.4	495.6	373.0	293.0	226.1
-42.5°	1782.9	1565.2	1359.2	1156.1	951.1	764.4	597.9	462.6	360.6	283.7	218.7
-45°	1641.7	1431.7	1232.1	1049.1	866.7	697.9	556.6	429.1	345.8	273.7	212.5
-47.5°	1492.7	1293.8	1105.6	936.7	784.8	630.4	508.7	409.6	328.7	262.2	208.7
-50°	1337.4	1155.2	981.5	831.0	691.1	573.2	463.0	387.3	313.5	249.1	204.3
-52.5°	1177.3	1017.5	864.0	724.8	614.3	512.1	431.6	361.7	296.3	240.4	199.2
-55°	1017.6	884.7	747.9	633.3	539.5	466.6	397.6	337.1	277.4	233.2	193.9
-57.5°	868.5	751.9	647.4	551.0	479.7	422.5	365.4	310.7	265.3	225.1	190.7
-60°	724.6	640.2	552.1	485.7	428.8	380.2	333.4	287.3	254.6	216.9	186.8
-62.5°	606.7	537.0	485.0	429.5	381.4	341.0	302.8	272.4	242.3	211.1	182.2
-65°	514.0	468.7	422.7	379.5	337.8	306.0	284.8	256.9	232.3	204.7	177.0
-67.5°	440.9	404.5	368.6	330.8	305.1	285.2	265.7	244.7	222.9	197.7	171.2
-70°	376.7	344.3	322.5	302.8	282.6	264.9	251.3	233.6	213.0	190.3	165.0
-72.5°	328.8	311.8	295.2	277.9	263.7	250.5	237.8	222.1	203.1	182.4	158.4
-75°	299.3	285.9	273.3	260.4	247.9	235.9	224.1	210.2	192.8	174.2	151.6
-77.5°	278.3	266.8	254.6	242.8	232.1	221.1	210.2	197.9	182.1	165.5	144.5
-80°	257.5	247.2	236.7	226.3	216.4	206.2	196.4	185.7	171.3	156.5	137.0
-82.5°	236.7	227.5	218.7	209.7	201.0	192.2	183.0	173.2	160.3	147.1	130.1
-85°	217.2	209.3	201.2	193.0	185.6	178.1	170.0	161.8	150.9	140.0	124.3
-87.5°	200.7	193.9	186.7	179.4	173.2	166.8	159.6	152.3	142.6	132.9	118.4
-90°	4.6	4.6	5.2	5.8	5.8	5.8	6.4	6.9	6.9	6.9	7.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	99.0	82.3	65.6	47.2	28.8	19.6	10.4
87.5°	8.4	8.5	8.5	8.4	8.3	9.5	10.4
85°	8.7	8.8	8.9	8.7	8.5	9.7	10.4
82.5°	9.0	9.2	9.3	9.0	8.7	9.9	10.4
80°	9.3	9.6	9.7	9.3	9.0	10.1	10.4
77.5°	9.9	10.0	10.1	9.6	9.2	10.3	10.4
75°	10.6	10.6	10.5	9.9	9.4	10.5	10.4
72.5°	11.2	11.1	10.9	10.2	9.7	10.7	10.4
70°	11.8	11.6	11.3	10.5	10.0	10.9	10.4
67.5°	12.6	12.1	11.8	10.9	10.3	11.2	10.4
65°	13.5	12.8	12.3	11.4	10.6	11.4	10.4
62.5°	14.4	13.9	12.8	11.9	11.0	11.6	10.4
60°	15.5	15.0	13.3	12.3	11.3	11.9	10.4
57.5°	17.7	16.1	14.5	12.8	11.9	12.1	10.4
55°	20.1	17.3	15.7	13.3	12.6	12.3	10.4
52.5°	22.6	18.8	17.1	13.8	13.3	12.6	10.4
50°	25.3	21.4	18.5	14.3	14.1	12.8	10.4
47.5°	28.4	24.1	19.9	15.0	14.9	13.1	10.4
45°	33.6	26.9	21.5	16.2	15.7	13.3	10.4
42.5°	39.0	29.9	23.1	17.3	16.6	13.6	10.4
40°	44.6	33.0	25.1	19.1	17.5	13.8	10.4
37.5°	50.5	36.2	27.5	21.1	18.4	14.1	10.4
35°	56.4	40.4	29.9	23.1	19.4	14.3	10.4
32.5°	63.2	45.1	32.4	25.2	20.4	14.6	10.4
30°	72.0	49.8	34.9	27.2	21.4	14.8	10.4
27.5°	80.6	54.3	38.2	29.3	22.4	15.0	10.4
25°	88.8	58.8	41.6	31.4	23.5	15.3	10.4
22.5°	96.8	63.4	44.9	33.5	24.6	15.5	10.4
20°	104.5	68.7	48.2	35.6	25.6	15.8	10.4
17.5°	112.4	73.8	51.3	37.6	26.7	16.0	10.4
15°	120.3	78.7	54.4	39.7	27.7	16.2	10.4
12.5°	127.7	83.5	57.3	41.6	28.8	16.4	10.4
10°	134.5	88.0	60.1	43.6	29.8	16.6	10.4
7.5°	140.9	92.3	62.9	45.4	30.7	16.8	10.4
5°	146.7	96.4	65.4	47.2	31.7	17.0	10.4
2.5°	151.9	100.1	67.9	49.0	32.6	17.1	10.4
0°	156.5	103.6	70.2	50.6	33.4	17.3	10.4
-2.5°	161.9	107.8	73.5	52.7	34.7	17.9	10.4
-5°	166.6	111.6	76.6	54.8	35.9	18.5	10.4
-7.5°	170.7	115.1	79.5	56.7	37.0	19.1	10.4
-10°	174.1	118.2	82.2	58.5	38.1	19.7	10.4
-12.5°	176.7	121.0	84.7	60.2	39.1	20.2	10.4
-15°	178.7	123.4	87.0	61.7	40.0	20.7	10.4
-17.5°	179.8	125.4	89.1	63.1	40.9	21.2	10.4
-20°	180.7	127.0	90.9	64.4	41.7	21.7	10.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	181.6	128.2	92.4	65.5	42.3	22.1	10.4
-25°	181.7	129.7	93.7	66.4	42.9	22.5	10.4
-27.5°	180.9	131.1	94.7	67.2	43.5	22.9	10.4
-30°	179.3	132.0	95.5	67.7	43.9	23.2	10.4
-32.5°	176.8	132.4	96.8	68.2	44.2	23.5	10.4
-35°	175.9	132.4	97.8	68.4	44.5	23.8	10.4
-37.5°	175.4	132.4	98.5	68.5	44.7	24.0	10.4
-40°	174.3	133.0	98.9	68.4	44.7	24.1	10.4
-42.5°	172.5	133.2	99.3	68.3	44.7	24.3	10.4
-45°	169.9	133.1	99.5	68.5	44.6	24.4	10.4
-47.5°	166.7	132.6	99.4	68.4	44.4	24.4	10.4
-50°	165.0	131.8	99.0	68.4	44.2	24.4	10.4
-52.5°	163.3	130.6	98.3	68.3	43.8	24.4	10.4
-55°	161.1	129.0	97.3	68.0	43.3	24.3	10.4
-57.5°	158.5	127.0	96.0	67.6	42.8	24.2	10.4
-60°	155.5	124.7	94.5	66.9	42.2	24.0	10.4
-62.5°	152.1	122.1	93.2	66.1	41.5	23.9	10.4
-65°	148.1	119.0	91.7	65.1	40.8	23.6	10.4
-67.5°	143.8	116.0	89.9	63.9	40.0	23.4	10.4
-70°	139.1	112.9	87.9	62.5	39.0	23.1	10.4
-72.5°	134.3	109.4	85.7	61.1	38.0	22.7	10.4
-75°	129.2	105.7	83.2	59.5	36.9	22.4	10.4
-77.5°	123.7	101.7	80.7	57.8	35.7	22.0	10.4
-80°	117.9	98.0	78.0	55.9	34.4	21.5	10.4
-82.5°	113.4	94.3	75.1	53.9	33.1	21.1	10.4
-85°	108.8	90.5	72.1	51.8	31.7	20.6	10.4
-87.5°	104.0	86.5	68.9	49.5	30.3	20.1	10.4
-90°	8.1	8.1	8.1	8.1	8.1	9.3	10.4

(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

