

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: P735984 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735984 (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-08-0640L-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

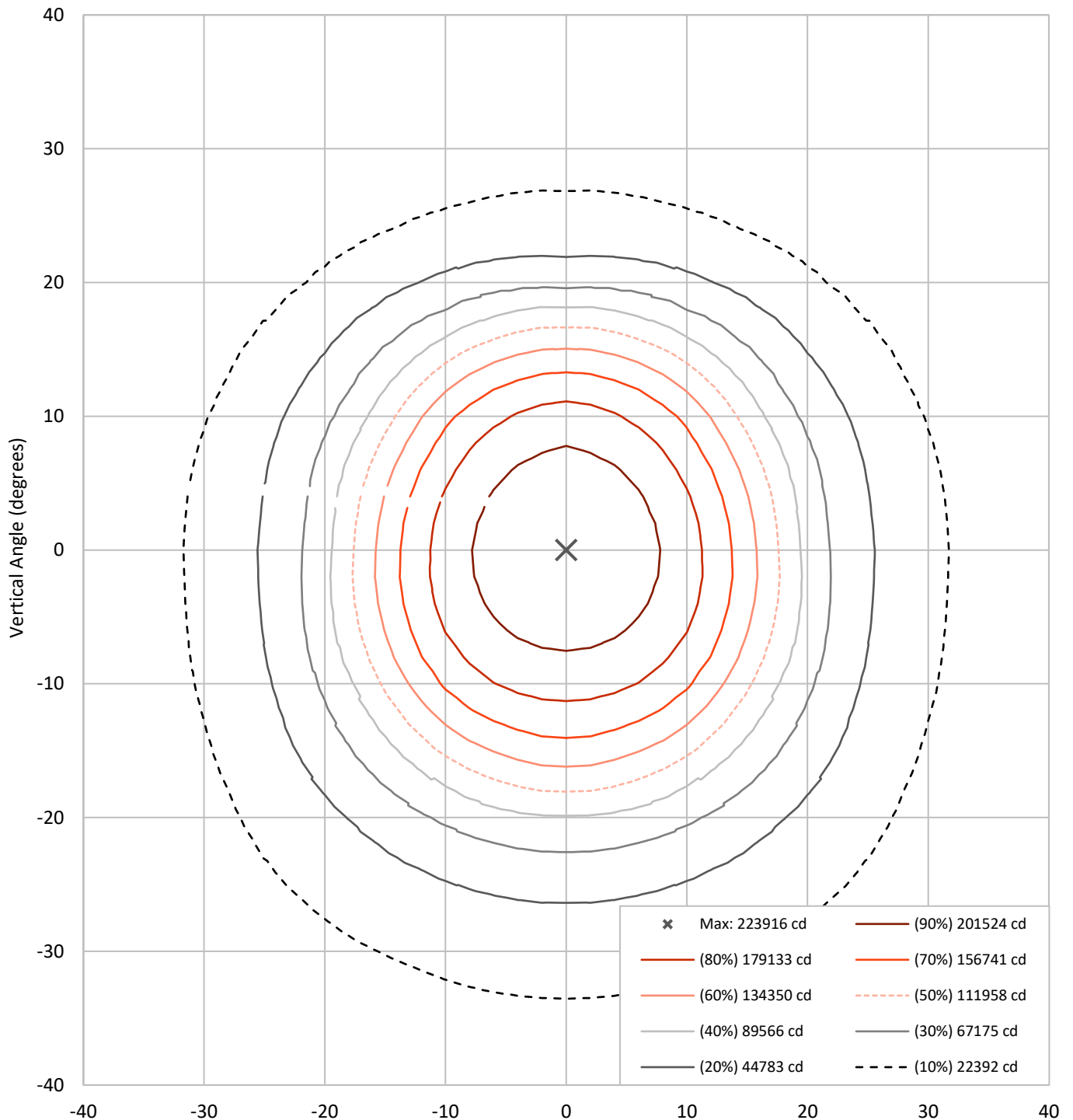
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	92884.8 lumens	Max Intensity:	223916 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.2 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:	49854.1 lumens	Field Lumens:	81127.5 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





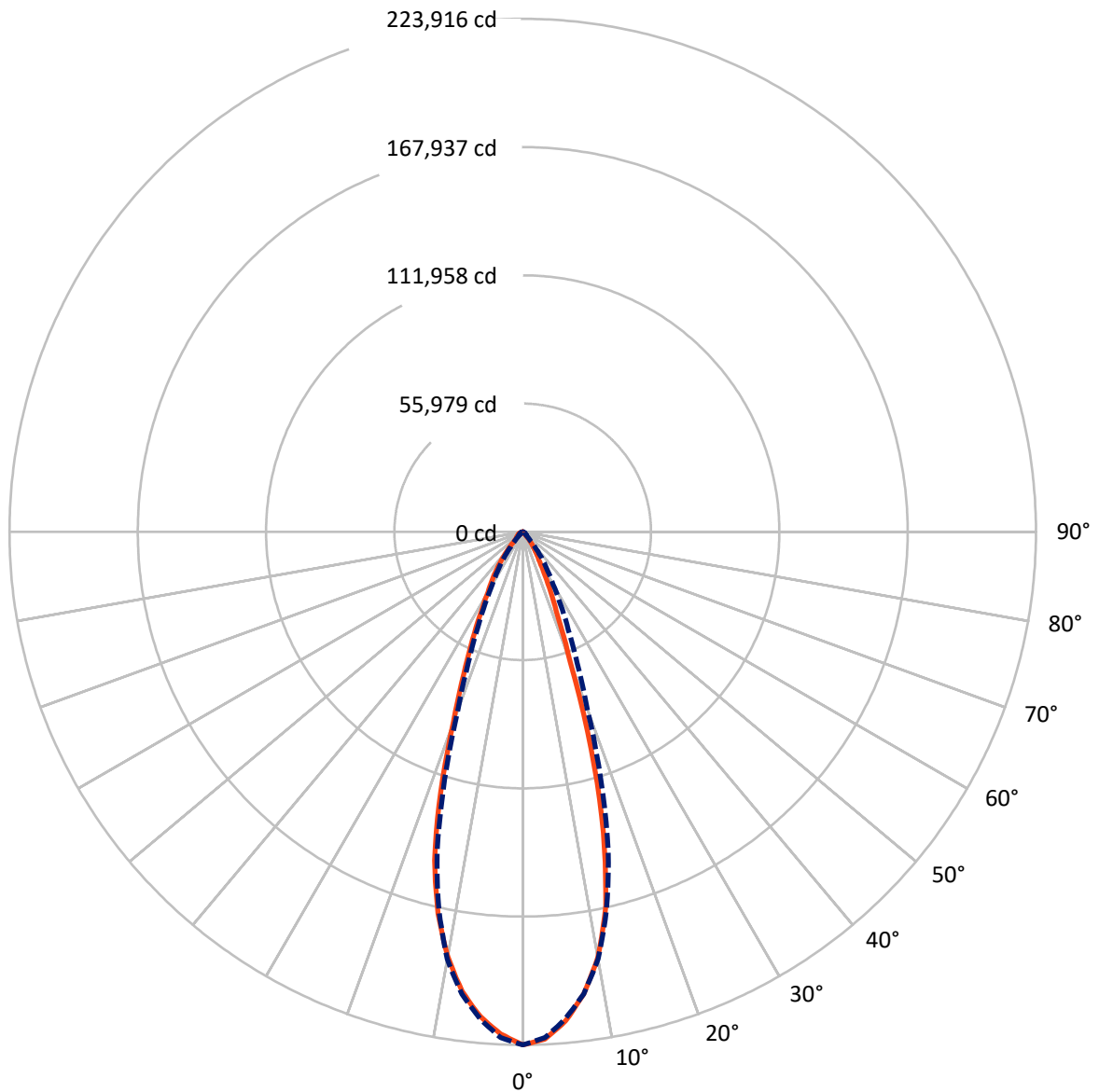
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Lumen Table

90	0.3	1.0	1.7	2.4	2.7	2.4	1.7	1.0	0.3										
80	0.3	1.0	1.7	2.4	2.7	2.4	1.7	1.0	0.3										
70	0.3	0.2	0.2	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.2	0.2	0.3			
60		0.4	0.8	1.3	1.2	0.9	1.1	1.3	1.3	1.1	0.9	1.2	1.3	0.8	0.4				
50	0.9	1.2	2.6	5.3	9.7	15.4	22.6	29.1	29.1	22.6	15.4	9.7	5.3	2.6	1.2	0.9			
40		2.8	8.8	16.9	27.8	64.1	143.3	232.3	232.3	143.3	64.1	27.8	16.9	8.8	2.8				
30	2.0	4.9	14.7	28.6	89.7	275.8	601.7	912.4	912.4	601.7	275.8	89.7	28.6	14.7	4.9	2.0			
20		6.6	19.3	45.7	233.3	773.8	2067.4	3673.7	3673.7	2067.4	773.8	233.3	45.7	19.3	6.6				
10	3.0	8.1	22.7	63.3	365.2	1270.0	3759.0	6019.3	6019.3	3759.0	1270.0	365.2	63.3	22.7	8.1	3.0			
0		9.0	25.2	70.8	391.4	1333.9	3940.8	6066.9	6066.9	3940.8	1333.9	391.4	70.8	25.2	9.0				
-10	3.4	9.3	26.6	65.2	312.4	985.3	2480.6	4075.4	4075.4	2480.6	985.3	312.4	65.2	26.6	9.3	3.4			
-20		8.7	26.5	55.9	171.9	547.2	1074.4	1551.5	1551.5	1074.4	547.2	171.9	55.9	26.5	8.7				
-30	3.2	7.4	23.9	46.8	82.6	203.1	409.1	565.6	565.6	409.1	203.1	82.6	46.8	23.9	7.4	3.2			
-40		5.8	17.9	37.4	59.0	81.9	111.8	143.1	143.1	111.8	81.9	59.0	37.4	17.9	5.8				
-50	2.7	4.3	11.2	24.4	42.0	56.6	68.4	76.7	76.7	68.4	56.6	42.0	24.4	11.2	4.3	2.7			
-60		3.2	6.6	12.3	21.1	29.9	38.0	43.4	43.4	38.0	29.9	21.1	12.3	6.6	3.2				
-70	2.0	3.2	6.6	12.3	21.1	29.9	38.0	43.4	43.4	38.0	29.9	21.1	12.3	6.6	3.2	2.0			
-80		11.8	26.5	42.9	52.7	42.9	26.5	11.8	2.0										
-90	2.0	11.8	26.5	42.9	52.7	42.9	26.5	11.8	2.0										

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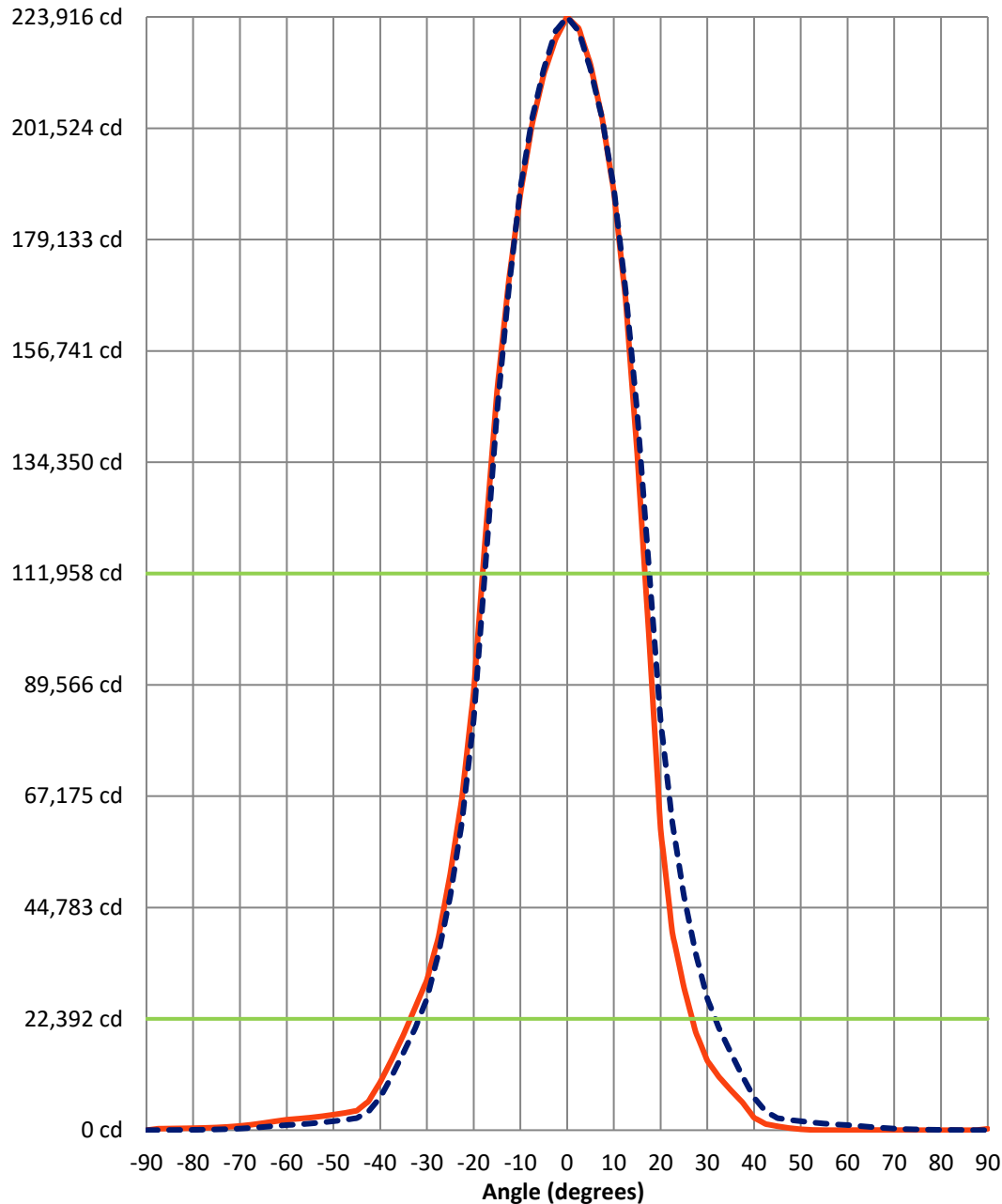
Luminous Intensity Polar Plot



— 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: 49854.1
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 81127.5
 Efficiency: 87.3%

Spill:
 Lumens: 11757.4
 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°	10.0	18.8	27.7	45.4	63.1	79.2	95.3	108.0	120.7	129.1	137.4
87.5°	10.0	9.1	8.0	8.1	8.2	8.2	8.1	7.5	7.0	7.1	7.1
85°	10.0	9.3	8.2	8.4	8.6	8.5	8.4	7.9	7.4	7.5	7.6
82.5°	10.0	9.5	8.4	8.7	8.9	8.9	8.7	8.3	7.9	8.0	8.1
80°	10.0	9.7	8.6	8.9	9.3	9.3	9.0	8.8	8.7	8.7	8.6
77.5°	10.0	9.9	8.8	9.2	9.7	9.7	9.6	9.5	9.4	9.4	9.0
75°	10.0	10.1	9.1	9.5	10.1	10.2	10.2	10.2	10.2	9.8	9.2
72.5°	10.0	10.3	9.3	9.8	10.5	10.7	10.8	10.9	10.7	10.1	9.3
70°	10.0	10.5	9.6	10.1	10.9	11.1	11.4	11.4	11.2	10.6	10.2
67.5°	10.0	10.7	9.9	10.5	11.3	11.6	12.1	12.1	11.8	11.5	11.2
65°	10.0	10.9	10.2	11.0	11.8	12.4	13.0	12.7	13.1	12.4	12.6
62.5°	10.0	11.2	10.5	11.4	12.3	13.4	13.9	14.2	14.6	13.8	15.0
60°	10.0	11.4	10.9	11.9	12.8	14.4	14.9	16.1	16.3	17.5	17.9
57.5°	10.0	11.6	11.5	12.3	13.9	15.5	17.0	18.2	20.4	21.8	24.2
55°	10.0	11.8	12.1	12.8	15.1	16.7	19.3	20.6	25.2	27.5	32.5
52.5°	10.0	12.1	12.8	13.3	16.4	18.1	21.8	25.5	30.5	37.1	41.4
50°	10.0	12.3	13.5	13.8	17.8	20.6	24.3	30.9	37.4	47.4	53.6
47.5°	10.0	12.6	14.3	14.4	19.2	23.2	27.3	36.5	47.6	58.4	67.5
45°	10.0	12.8	15.1	15.5	20.7	25.9	32.4	42.4	58.3	72.0	82.3
42.5°	10.0	13.0	15.9	16.7	22.2	28.8	37.5	50.6	69.5	86.2	106.1
40°	10.0	13.3	16.8	18.3	24.1	31.8	43.0	60.7	81.8	101.2	133.7
37.5°	10.0	13.5	17.7	20.2	26.5	34.8	48.6	70.9	96.1	120.6	163.5
35°	10.0	13.7	18.6	22.2	28.8	38.9	54.3	81.3	110.9	148.3	199.7
32.5°	10.0	14.0	19.6	24.2	31.2	43.4	60.9	91.8	126.3	176.6	241.0
30°	10.0	14.2	20.6	26.2	33.6	47.9	69.3	102.5	142.1	205.5	280.4
27.5°	10.0	14.4	21.6	28.2	36.8	52.3	77.5	114.1	159.5	234.7	317.8
25°	10.0	14.7	22.6	30.2	40.0	56.6	85.5	125.2	179.6	265.3	353.2
22.5°	10.0	14.9	23.6	32.2	43.2	61.0	93.2	135.8	198.3	288.9	389.5
20°	10.0	15.1	24.6	34.2	46.4	66.1	100.6	145.8	215.7	311.0	418.9
17.5°	10.0	15.3	25.6	36.2	49.4	71.0	108.2	155.2	231.8	331.5	446.3
15°	10.0	15.5	26.6	38.2	52.3	75.7	115.7	164.5	246.4	350.3	472.1
12.5°	10.0	15.7	27.6	40.1	55.2	80.3	122.9	174.1	261.0	367.3	496.1
10°	10.0	15.9	28.6	41.9	57.9	84.7	129.5	183.0	275.6	389.3	522.4
7.5°	10.0	16.1	29.5	43.7	60.5	88.8	135.6	191.2	288.7	411.0	556.2
5°	10.0	16.3	30.4	45.5	63.0	92.7	141.2	198.8	300.4	431.1	588.0
2.5°	10.0	16.4	31.3	47.1	65.4	96.4	146.2	205.6	310.5	449.3	617.4
0°	10.0	16.6	32.1	48.7	67.6	99.7	150.7	211.6	319.0	465.2	643.6
-2.5°	10.0	17.2	33.3	50.8	70.7	103.7	155.9	218.8	330.2	478.3	656.8
-5°	10.0	17.8	34.5	52.7	73.7	107.4	160.4	225.2	339.6	488.7	666.3
-7.5°	10.0	18.3	35.6	54.6	76.5	110.8	164.3	230.6	346.8	496.4	672.4
-10°	10.0	18.9	36.6	56.3	79.1	113.8	167.6	234.9	351.9	501.2	675.0
-12.5°	10.0	19.4	37.6	57.9	81.6	116.5	170.1	238.2	354.5	503.0	677.9
-15°	10.0	19.9	38.5	59.4	83.8	118.8	172.0	240.3	354.1	500.8	677.8
-17.5°	10.0	20.4	39.3	60.8	85.7	120.7	173.1	241.7	350.6	495.3	672.1
-20°	10.0	20.8	40.1	62.0	87.5	122.3	173.9	242.4	345.1	486.3	660.5



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 CATALOG NUMBER: EPH-LS-08-0640L-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°	10.0	21.3	40.7	63.0	89.0	123.4	174.8	242.0	337.4	473.9	643.3
-25°	10.0	21.6	41.3	63.9	90.2	124.9	174.8	240.6	327.6	458.0	625.4
-27.5°	10.0	22.0	41.8	64.6	91.1	126.2	174.1	238.1	315.8	444.3	610.0
-30°	10.0	22.3	42.2	65.2	91.9	127.0	172.6	234.6	308.7	431.6	589.9
-32.5°	10.0	22.6	42.6	65.6	93.1	127.4	170.2	231.6	304.6	415.6	564.7
-35°	10.0	22.8	42.8	65.9	94.1	127.4	169.3	228.1	298.7	396.3	534.3
-37.5°	10.0	23.0	43.0	65.9	94.8	127.4	168.8	223.5	291.2	373.6	505.3
-40°	10.0	23.2	43.0	65.8	95.2	128.0	167.8	217.6	282.0	359.1	476.9
-42.5°	10.0	23.3	43.0	65.8	95.6	128.2	166.0	210.5	273.0	347.0	445.2
-45°	10.0	23.4	42.9	65.9	95.7	128.1	163.4	204.5	263.4	332.8	413.0
-47.5°	10.0	23.5	42.8	65.8	95.6	127.6	160.4	200.9	252.4	316.4	394.2
-50°	10.0	23.5	42.5	65.8	95.3	126.8	158.8	196.6	239.7	301.7	372.7
-52.5°	10.0	23.5	42.1	65.7	94.6	125.7	157.1	191.7	231.3	285.2	348.0
-55°	10.0	23.4	41.7	65.5	93.6	124.1	155.0	186.5	224.4	266.9	324.4
-57.5°	10.0	23.3	41.2	65.0	92.4	122.3	152.5	183.6	216.6	255.3	299.1
-60°	10.0	23.1	40.6	64.4	90.9	120.0	149.7	179.8	208.7	245.0	276.5
-62.5°	10.0	22.9	40.0	63.6	89.7	117.5	146.3	175.3	203.2	233.1	262.2
-65°	10.0	22.7	39.3	62.6	88.2	114.6	142.6	170.3	197.0	223.5	247.3
-67.5°	10.0	22.5	38.5	61.5	86.5	111.6	138.4	164.8	190.2	214.5	235.5
-70°	10.0	22.2	37.6	60.2	84.6	108.6	133.9	158.8	183.1	205.0	224.8
-72.5°	10.0	21.9	36.6	58.8	82.4	105.3	129.3	152.4	175.6	195.4	213.7
-75°	10.0	21.5	35.5	57.3	80.1	101.7	124.3	145.9	167.6	185.5	202.3
-77.5°	10.0	21.1	34.4	55.6	77.6	97.9	119.1	139.0	159.3	175.3	190.5
-80°	10.0	20.7	33.1	53.8	75.1	94.3	113.5	131.9	150.6	164.9	178.7
-82.5°	10.0	20.3	31.9	51.9	72.3	90.7	109.1	125.2	141.6	154.3	166.7
-85°	10.0	19.8	30.5	49.8	69.4	87.1	104.7	119.6	134.7	145.3	155.8
-87.5°	10.0	19.3	29.1	47.7	66.3	83.2	100.1	113.9	127.8	137.2	146.7
-90°	10.0	8.9	7.8	7.8	7.8	7.8	7.8	7.2	6.6	6.6	6.6



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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°	143.5	149.5	155.1	160.6	167.3	173.9	180.6	187.2	194.4	201.6	208.8
87.5°	6.6	6.1	6.1	6.1	5.6	5.1	4.8	4.4	4.4	4.4	4.3
85°	7.1	6.6	6.6	6.6	6.2	5.8	5.4	4.9	4.9	5.0	4.7
82.5°	7.7	7.2	7.0	6.6	6.5	6.5	6.1	5.7	5.6	5.5	5.2
80°	8.2	7.9	7.4	7.0	6.9	6.7	6.5	6.4	6.1	5.7	5.6
77.5°	8.5	7.9	7.7	7.6	7.4	6.8	6.6	6.6	6.5	6.4	6.2
75°	8.5	8.0	7.9	7.9	7.4	6.8	6.6	6.9	6.9	6.7	6.5
72.5°	9.0	8.7	8.4	8.1	7.8	7.5	7.4	7.7	8.3	8.8	9.4
70°	9.9	9.5	9.2	8.9	8.5	8.5	9.4	11.3	13.1	13.8	15.7
67.5°	11.0	10.7	10.4	10.1	10.1	11.0	12.3	16.3	19.9	22.4	25.0
65°	12.1	11.9	11.9	12.1	12.2	15.6	19.3	23.3	29.5	33.0	33.1
62.5°	13.5	15.2	14.5	15.5	18.7	22.3	27.8	35.1	42.9	46.1	44.1
60°	19.2	20.1	20.5	22.9	26.0	29.9	37.6	46.4	55.5	61.0	52.9
57.5°	26.4	27.6	29.6	31.1	34.5	36.7	45.9	56.6	62.5	66.1	56.8
55°	35.4	37.2	40.2	40.9	43.8	44.7	52.4	59.7	64.7	65.8	55.8
52.5°	46.9	48.9	53.3	54.0	54.1	55.1	56.1	64.2	68.3	67.1	57.9
50°	59.3	66.2	68.6	71.1	67.7	69.1	65.5	74.9	82.8	80.7	83.4
47.5°	77.6	86.2	89.7	94.2	91.8	99.4	96.7	114.6	120.8	156.6	164.6
45°	99.5	114.8	119.5	130.0	140.7	149.5	178.4	180.7	256.2	287.8	347.2
42.5°	126.0	149.8	169.2	173.0	224.5	251.8	292.0	357.9	424.2	484.9	525.3
40°	165.2	189.9	231.3	279.5	334.2	393.1	446.5	523.2	587.4	635.1	663.7
37.5°	209.9	256.8	313.2	400.3	474.1	534.2	594.9	661.1	721.5	763.5	818.1
35°	258.9	327.2	431.9	522.5	601.7	658.3	717.6	787.8	844.8	912.5	979.9
32.5°	318.4	399.1	530.4	628.3	692.6	759.6	828.0	901.8	983.6	1066.9	1153.3
30°	377.2	480.1	608.4	710.1	772.4	850.4	933.6	1020.1	1127.3	1232.3	1349.0
27.5°	423.5	549.6	671.6	776.7	849.3	941.7	1043.2	1156.2	1283.5	1411.9	1566.9
25°	464.9	601.3	735.3	846.8	939.0	1041.4	1160.7	1296.2	1447.8	1628.4	2115.7
22.5°	505.2	651.6	805.7	921.9	1025.5	1141.1	1285.0	1443.3	1621.6	1861.6	2723.6
20°	546.6	708.7	873.1	984.3	1104.4	1234.1	1402.6	1586.3	1807.4	2374.3	3645.8
17.5°	589.1	767.5	930.5	1039.0	1165.6	1323.7	1519.7	1726.9	1996.3	2854.5	4800.8
15°	630.6	823.0	976.5	1087.5	1227.0	1411.1	1630.0	1883.7	2330.9	3524.5	5957.9
12.5°	670.3	872.8	1010.6	1129.1	1287.7	1493.4	1732.3	2017.0	2724.0	4428.7	7220.1
10°	707.6	916.9	1040.4	1168.9	1347.0	1570.8	1823.9	2134.3	3067.3	5151.3	8219.4
7.5°	748.0	954.8	1067.2	1206.7	1401.6	1641.5	1899.3	2224.7	3323.1	5705.4	8961.7
5°	784.7	985.5	1098.3	1250.9	1455.8	1705.3	1963.9	2300.3	3497.6	6056.5	9476.8
2.5°	816.7	1010.0	1127.1	1292.9	1506.8	1761.3	2022.5	2376.1	3653.3	6353.4	10128.6
0°	844.1	1029.1	1153.1	1330.4	1550.8	1807.8	2070.4	2437.0	3757.4	6553.3	10884.6
-2.5°	860.8	1057.6	1196.4	1369.7	1587.2	1840.8	2113.7	2502.1	3862.9	6985.5	11172.5
-5°	872.8	1080.7	1235.1	1404.1	1616.6	1864.9	2145.3	2548.3	3908.3	7104.4	11088.6
-7.5°	879.8	1097.4	1268.4	1434.2	1642.9	1893.0	2195.3	2610.1	3928.8	6811.4	10613.4
-10°	883.5	1111.5	1290.1	1459.0	1667.3	1918.7	2234.3	2649.9	3844.4	6416.0	10066.7
-12.5°	892.9	1123.5	1307.4	1477.5	1683.5	1937.2	2264.6	2679.9	3652.2	5872.9	9315.3
-15°	895.4	1129.6	1321.9	1490.2	1700.4	1964.4	2287.5	2685.1	3374.6	5170.9	8355.9
-17.5°	890.4	1130.0	1332.0	1500.1	1708.9	1974.9	2294.8	2670.3	3167.2	4660.9	7390.7
-20°	877.4	1116.7	1335.1	1501.0	1705.6	1979.1	2298.5	2664.0	3116.6	4139.5	6220.1



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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°	856.4	1095.9	1324.3	1499.4	1716.8	1980.9	2287.9	2624.6	3006.9	3510.5	5054.8
-25°	833.8	1066.2	1296.3	1504.7	1718.9	1971.7	2243.1	2552.3	2905.3	3299.1	4223.4
-27.5°	809.4	1031.6	1267.4	1498.0	1708.4	1937.1	2189.2	2479.0	2769.7	3087.8	3481.4
-30°	779.9	994.0	1228.8	1473.8	1683.6	1897.3	2129.8	2364.0	2624.6	2910.9	3244.4
-32.5°	744.6	949.8	1181.0	1423.0	1650.8	1851.0	2045.5	2255.8	2488.3	2740.8	3016.6
-35°	706.2	905.0	1124.9	1361.2	1610.8	1794.6	1963.5	2145.4	2351.4	2582.1	2838.3
-37.5°	667.2	853.3	1059.1	1289.4	1532.1	1724.7	1876.8	2046.6	2227.9	2425.5	2663.7
-40°	623.0	793.7	990.5	1208.1	1423.3	1631.4	1798.6	1952.6	2111.9	2292.7	2487.2
-42.5°	575.4	735.7	915.3	1112.6	1308.0	1506.4	1715.9	1867.1	2009.7	2163.2	2333.7
-45°	535.6	671.7	834.1	1009.6	1185.8	1377.8	1579.9	1782.1	1912.3	2045.2	2190.4
-47.5°	489.6	606.7	755.3	901.5	1064.1	1245.2	1436.6	1624.1	1808.9	1938.2	2060.4
-50°	445.6	551.7	665.2	799.7	944.5	1111.8	1287.2	1458.5	1631.8	1806.9	1946.4
-52.5°	415.4	492.8	591.3	697.5	831.4	979.2	1133.0	1285.7	1448.5	1615.5	1776.3
-55°	382.7	449.1	519.2	609.5	719.8	851.4	979.3	1116.2	1256.0	1410.0	1566.7
-57.5°	351.7	406.6	461.7	530.3	623.0	723.6	835.8	948.1	1074.9	1203.8	1338.0
-60°	320.9	366.0	412.7	467.4	531.3	616.1	697.3	795.2	900.5	1006.6	1125.8
-62.5°	291.4	328.2	367.1	413.3	466.7	516.7	583.8	659.8	735.7	829.7	926.2
-65°	274.1	294.5	325.1	365.2	406.8	451.1	494.6	541.1	607.2	677.3	745.9
-67.5°	255.7	274.5	293.6	318.3	354.8	389.4	424.4	465.3	507.4	552.8	602.8
-70°	241.9	255.0	271.9	291.4	310.4	331.4	362.6	395.1	427.5	462.8	502.0
-72.5°	228.8	241.1	253.8	267.5	284.1	300.1	316.5	334.1	359.6	390.7	419.8
-75°	215.6	227.0	238.6	250.6	263.1	275.2	288.1	303.9	321.5	340.5	358.3
-77.5°	202.3	212.8	223.4	233.7	245.1	256.8	267.9	279.2	293.0	307.7	321.7
-80°	189.0	198.4	208.2	217.9	227.8	238.0	247.8	257.3	269.2	281.9	294.3
-82.5°	176.1	185.0	193.4	201.9	210.5	218.9	227.7	236.6	247.5	258.7	269.3
-85°	163.7	171.4	178.6	185.7	193.7	201.5	209.0	216.6	226.5	236.4	245.6
-87.5°	153.6	160.5	166.6	172.6	179.7	186.7	193.2	199.7	208.2	216.8	224.5
-90°	6.1	5.5	5.5	5.5	5.0	4.4	4.4	4.4	4.4	4.4	3.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	216.0	221.0	226.0	229.3	232.6	237.6	242.6	249.8	257.0	263.1	269.2
87.5°	4.2	3.8	3.3	3.2	3.2	3.2	3.2	2.7	2.2	2.2	2.2
85°	4.4	4.2	4.1	4.2	4.2	3.8	3.3	3.3	3.2	3.2	3.3
82.5°	4.9	4.7	4.4	4.4	4.4	4.3	4.2	3.8	3.3	3.3	3.3
80°	5.5	5.2	5.0	4.7	4.4	4.4	4.4	3.9	3.3	3.3	3.3
77.5°	5.7	5.6	5.5	5.1	4.5	4.4	4.4	3.9	3.4	3.3	3.3
75°	6.5	6.4	6.3	6.2	6.0	6.2	6.5	6.4	6.0	5.7	5.4
72.5°	10.0	10.0	9.8	10.4	11.0	11.5	11.8	12.1	12.5	13.3	14.3
70°	17.7	19.1	19.1	19.0	19.0	18.4	17.8	17.6	17.7	18.0	18.4
67.5°	26.6	27.7	28.2	28.4	26.0	24.3	23.6	23.7	24.7	26.7	29.6
65°	33.9	31.9	30.0	28.1	28.3	28.2	26.9	26.3	27.2	28.4	29.7
62.5°	40.4	32.1	26.8	24.2	24.6	25.5	23.0	21.1	20.5	20.2	20.3
60°	43.4	30.2	21.3	18.0	16.2	15.2	13.5	11.6	11.0	10.8	11.1
57.5°	43.8	28.8	16.9	13.4	10.3	7.9	6.6	5.8	5.8	5.6	5.5
55°	42.5	29.1	16.4	15.1	13.8	12.6	11.0	10.7	10.1	10.0	10.7
52.5°	44.0	40.8	33.4	32.3	39.4	39.7	34.2	42.0	47.4	51.5	53.4
50°	86.9	83.5	105.5	105.5	127.7	146.8	141.3	152.4	171.6	188.4	198.7
47.5°	203.1	219.1	252.1	281.7	315.1	357.3	376.1	389.4	406.2	428.8	443.9
45°	378.4	417.9	460.8	508.7	564.6	614.2	643.0	670.7	689.0	709.1	732.9
42.5°	561.8	609.0	672.6	729.8	790.3	848.2	893.7	933.9	1012.1	1123.8	1212.6
40°	718.8	772.5	846.3	922.7	994.0	1067.1	1268.3	1439.7	1653.3	1972.2	2254.8
37.5°	874.7	936.8	1019.1	1112.8	1327.9	1545.8	1985.2	2459.7	2870.9	3332.0	3797.6
35°	1044.6	1126.2	1236.3	1551.4	1949.7	2530.4	3160.4	3865.2	4463.5	5107.3	6050.6
32.5°	1245.2	1387.7	1743.7	2316.4	3030.7	3855.5	4637.0	5523.0	6270.3	7453.2	8893.8
30°	1503.9	1950.6	2634.1	3424.8	4388.6	5432.7	6412.5	7847.6	9524.1	11008.3	12233.9
27.5°	2127.7	2990.6	3944.9	4947.0	6153.8	7419.0	9473.5	11330.8	13134.6	14737.2	16599.0
25°	3059.2	4443.5	6074.5	7417.8	9057.7	11344.3	13667.4	15713.0	18454.5	20865.8	23570.8
22.5°	4376.7	6347.9	8448.6	10410.0	12928.5	15792.3	18917.8	22686.9	26495.4	30725.8	34489.3
20°	5662.7	8156.6	10817.0	13640.6	16865.9	20446.5	25555.7	31672.4	37541.1	44206.1	49826.2
17.5°	7375.2	10390.0	13536.3	17125.6	21272.3	26781.1	34322.1	42685.9	51761.1	61713.6	70917.1
15°	9116.7	12364.5	16020.5	20614.2	26479.6	33966.6	43587.1	54972.8	68244.6	82875.2	100662.2
12.5°	10543.9	14095.4	18370.4	24159.4	31830.8	41843.4	53499.5	67205.2	85400.3	107467.4	128132.5
10°	11763.3	16021.8	21423.8	28275.1	37298.6	48601.8	61843.1	78811.7	103321.5	128885.3	151563.4
7.5°	13019.4	18057.2	23778.3	31206.7	41466.4	54296.5	70601.8	92760.5	119727.7	145947.7	166744.5
5°	14204.0	19445.2	25263.8	33200.3	44295.3	58074.9	76575.1	103564.5	132910.6	158591.3	178129.9
2.5°	15132.0	20143.2	26046.2	34685.0	45824.6	60128.4	80319.6	110245.4	141029.5	166339.1	186374.4
0°	15613.5	20521.9	26480.4	35613.6	47093.0	62013.1	82466.3	113193.7	144332.1	168979.1	189400.2
-2.5°	15507.0	20339.1	26211.6	34897.0	46803.2	62354.1	84251.3	114730.2	144900.9	169879.6	189125.2
-5°	15282.9	20051.2	25842.6	34016.4	45765.2	61496.9	82313.1	110334.5	139472.7	165095.1	183805.1
-7.5°	14865.3	19569.2	25106.7	32728.4	44044.7	58942.1	77726.8	102076.3	130029.4	155701.3	173814.0
-10°	14251.0	18824.6	24050.6	30982.4	41145.4	54828.4	70798.6	89813.9	115962.9	139964.7	160090.2
-12.5°	13377.8	17771.2	22585.5	28542.1	37643.6	49702.0	63469.9	79269.2	97958.3	121106.2	139970.9
-15°	12266.7	16398.6	20872.1	26492.4	34102.6	43982.8	55590.8	67847.4	82172.0	98150.6	116538.6
-17.5°	10903.1	14784.3	18950.3	23795.6	29950.3	38239.8	47422.2	56985.9	67325.5	79084.3	89887.3
-20°	9277.1	12827.2	16753.1	21259.9	26533.7	32521.2	39196.2	46927.7	54942.2	63334.8	70760.1



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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°	7626.0	10864.5	14605.6	18546.3	23130.0	27700.3	32183.7	37932.3	44121.6	50197.3	55724.3
-25°	5966.9	8826.0	12304.3	16000.4	19679.4	23412.6	27052.8	30622.4	35076.2	38986.9	43043.5
-27.5°	4739.4	6878.1	9798.9	13024.4	16230.2	19345.3	22492.6	25474.3	28283.0	30644.8	33379.8
-30°	3727.3	5170.9	7427.3	9965.5	12770.5	15515.1	18227.2	20746.0	22957.8	24902.5	26801.6
-32.5°	3369.9	3959.4	5300.3	7229.1	9442.1	11850.0	14116.9	16280.3	18103.8	19911.0	21612.7
-35°	3117.3	3441.9	3880.2	5085.2	6526.3	8442.6	10219.5	12015.0	13546.4	15351.3	16746.9
-37.5°	2910.3	3160.3	3437.4	3721.6	4598.0	5557.4	6836.8	8182.7	9365.8	10879.9	12111.9
-40°	2709.8	2931.2	3147.8	3363.9	3596.9	3811.0	4572.6	5266.6	6069.1	7104.8	7991.0
-42.5°	2516.1	2711.0	2898.6	3074.2	3237.0	3377.6	3530.9	3677.7	4111.1	4638.9	5044.4
-45°	2342.1	2507.9	2664.9	2813.4	2937.4	3050.0	3168.0	3290.9	3452.0	3598.5	3719.4
-47.5°	2194.3	2325.3	2453.9	2574.9	2670.2	2766.2	2860.2	2966.3	3091.8	3214.7	3317.5
-50°	2060.5	2173.9	2271.5	2357.2	2436.4	2517.7	2592.5	2686.7	2787.7	2889.4	2974.5
-52.5°	1932.4	2033.2	2114.8	2180.0	2240.4	2306.7	2371.1	2446.2	2528.2	2613.8	2681.4
-55°	1717.1	1845.2	1963.7	2025.0	2072.3	2127.0	2181.5	2242.4	2311.6	2383.4	2437.0
-57.5°	1479.1	1605.6	1717.2	1796.7	1875.2	1955.4	2015.5	2063.1	2125.7	2187.0	2233.3
-60°	1240.1	1346.2	1444.8	1525.2	1607.1	1687.3	1754.8	1816.9	1894.4	1964.8	2022.0
-62.5°	1017.7	1110.4	1186.5	1251.6	1321.4	1391.2	1455.5	1516.7	1587.1	1650.3	1703.9
-65°	815.5	893.3	949.6	1000.7	1056.2	1114.0	1165.0	1215.8	1272.2	1322.8	1366.8
-67.5°	659.4	711.0	746.1	778.7	822.7	867.6	907.6	948.0	991.1	1029.5	1062.8
-70°	539.9	572.0	593.7	618.6	650.0	678.7	705.0	734.5	766.3	795.6	822.1
-72.5°	447.6	469.7	485.8	505.8	525.7	543.9	560.5	581.7	604.9	627.5	649.0
-75°	374.9	389.2	404.7	419.1	432.7	446.0	458.2	475.3	493.1	510.1	526.4
-77.5°	336.3	347.0	355.7	363.7	371.2	379.7	388.2	402.6	418.2	431.3	443.6
-80°	306.5	314.8	322.0	328.1	333.7	340.7	347.8	359.5	371.8	382.8	393.7
-82.5°	279.8	286.9	293.5	299.1	304.5	310.5	316.5	326.8	337.3	346.7	355.9
-85°	254.7	260.9	266.8	271.8	276.8	282.3	287.7	296.7	305.7	314.1	322.4
-87.5°	232.2	237.7	243.2	247.0	250.7	256.0	261.3	269.3	277.2	284.6	292.0
-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°	272.5	275.8	276.4	276.9	276.4	275.8	272.5	269.2	263.1	257.0	249.8
87.5°	1.6	1.1	1.6	2.2	1.6	1.1	1.6	2.2	2.2	2.2	2.7
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9
77.5°	2.8	2.2	2.7	3.3	2.7	2.2	2.8	3.3	3.3	3.4	3.9
75°	4.9	4.4	3.9	3.3	3.9	4.4	4.9	5.4	5.7	6.0	6.4
72.5°	14.9	15.2	15.9	16.6	15.9	15.2	14.9	14.3	13.3	12.5	12.1
70°	17.7	16.7	16.6	16.6	16.6	16.7	17.7	18.4	18.0	17.7	17.6
67.5°	31.7	33.5	34.1	34.3	34.1	33.5	31.7	29.6	26.7	24.7	23.7
65°	30.9	32.0	32.1	32.1	32.1	32.0	30.9	29.7	28.4	27.2	26.3
62.5°	20.6	21.2	21.6	22.2	21.6	21.2	20.6	20.3	20.2	20.5	21.1
60°	11.6	12.3	12.8	13.3	12.8	12.3	11.6	11.1	10.8	11.0	11.6
57.5°	5.4	5.7	6.0	6.6	6.0	5.7	5.4	5.5	5.6	5.8	5.8
55°	11.2	11.8	12.1	12.2	12.1	11.8	11.2	10.7	10.0	10.1	10.7
52.5°	52.5	50.0	48.0	46.5	48.0	50.0	52.5	53.4	51.5	47.4	42.0
50°	203.0	198.0	192.5	187.2	192.5	198.0	203.0	198.7	188.4	171.6	152.4
47.5°	452.9	448.9	440.6	429.8	440.6	448.9	452.9	443.9	428.8	406.2	389.4
45°	765.5	787.6	797.5	792.0	797.5	787.6	765.5	732.9	709.1	689.0	670.7
42.5°	1242.8	1262.4	1264.1	1235.1	1264.1	1262.4	1242.8	1212.6	1123.8	1012.1	933.9
40°	2459.3	2629.8	2688.2	2512.3	2688.2	2629.8	2459.3	2254.8	1972.2	1653.3	1439.7
37.5°	4358.8	5028.4	5587.0	5608.5	5587.0	5028.4	4358.8	3797.6	3332.0	2870.9	2459.7
35°	7064.2	7753.1	8086.2	8072.0	8086.2	7753.1	7064.2	6050.6	5107.3	4463.5	3865.2
32.5°	9928.9	10450.8	10784.3	10704.0	10784.3	10450.8	9928.9	8893.8	7453.2	6270.3	5523.0
30°	13109.2	13593.4	13982.2	13976.3	13982.2	13593.4	13109.2	12233.9	11008.3	9524.1	7847.6
27.5°	18114.4	19112.2	19905.3	19770.8	19905.3	19112.2	18114.4	16599.0	14737.2	13134.6	11330.8
25°	25852.4	27677.6	28968.0	28702.5	28968.0	27677.6	25852.4	23570.8	20865.8	18454.5	15713.0
22.5°	37283.4	39624.8	40603.9	39827.4	40603.9	39624.8	37283.4	34489.3	30725.8	26495.4	22686.9
20°	55180.3	59521.2	62220.0	60610.7	62220.0	59521.2	55180.3	49826.2	44206.1	37541.1	31672.4
17.5°	82829.0	92246.3	99687.3	99482.2	99687.3	92246.3	82829.0	70917.1	61713.6	51761.1	42685.9
15°	116148.4	126867.2	135120.7	136075.0	135120.7	126867.2	116148.4	100662.2	82875.2	68244.6	54972.8
12.5°	145982.5	156883.5	164960.3	167284.3	164960.3	156883.5	145982.5	128132.5	107467.4	85400.3	67205.2
10°	167245.1	178123.6	185941.2	188697.9	185941.2	178123.6	167245.1	151563.4	128885.3	103321.5	78811.7
7.5°	182843.1	194645.3	200505.4	203500.5	200505.4	194645.3	182843.1	166744.5	145947.7	119727.7	92760.5
5°	194066.8	205035.6	210704.6	214334.1	210704.6	205035.6	194066.8	178129.9	158591.3	132910.6	103564.5
2.5°	201142.2	211497.6	218305.5	221561.0	218305.5	211497.6	201142.2	186374.4	166339.1	141029.5	110245.4
0°	203425.7	213367.1	220997.7	223916.0	220997.7	213367.1	203425.7	189400.2	168979.1	144332.1	113193.7
-2.5°	202363.6	212102.0	218187.9	219367.6	218187.9	212102.0	202363.6	189125.2	169879.6	144900.9	114730.2
-5°	196835.9	205811.5	211431.2	212354.6	211431.2	205811.5	196835.9	183805.1	165095.1	139472.7	110334.5
-7.5°	187306.3	196259.8	200904.9	202272.6	200904.9	196259.8	187306.3	173814.0	155701.3	130029.4	102076.3
-10°	173489.3	182139.4	187103.9	188281.4	187103.9	182139.4	173489.3	160090.2	139964.7	115962.9	89813.9
-12.5°	154635.7	163863.6	169419.9	170644.1	169419.9	163863.6	154635.7	139970.9	121106.2	97958.3	79269.2
-15°	130188.2	139680.3	146773.4	148489.4	146773.4	139680.3	130188.2	116538.6	98150.6	82172.0	67847.4
-17.5°	102007.5	111506.2	117880.0	119096.8	117880.0	111506.2	102007.5	89887.3	79084.3	67325.5	56985.9
-20°	77736.4	83845.4	87442.7	88069.2	87442.7	83845.4	77736.4	70760.1	63334.8	54942.2	46927.7



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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°	60241.0	64346.9	66537.1	66846.1	66537.1	64346.9	60241.0	55724.3	50197.3	44121.6	37932.3
-25°	46681.0	49664.3	51295.6	51567.2	51295.6	49664.3	46681.0	43043.5	38986.9	35076.2	30622.4
-27.5°	35843.0	37696.2	39214.1	38898.0	39214.1	37696.2	35843.0	33379.8	30644.8	28283.0	25474.3
-30°	28362.1	29550.7	30447.2	30212.3	30447.2	29550.7	28362.1	26801.6	24902.5	22957.8	20746.0
-32.5°	22955.3	23886.5	24516.8	24684.7	24516.8	23886.5	22955.3	21612.7	19911.0	18103.8	16280.3
-35°	17842.0	18602.9	19039.6	19209.2	19039.6	18602.9	17842.0	16746.9	15351.3	13546.4	12015.0
-37.5°	13026.4	13693.9	14110.6	14255.4	14110.6	13693.9	13026.4	12111.9	10879.9	9365.8	8182.7
-40°	8669.4	9183.7	9525.1	9657.2	9525.1	9183.7	8669.4	7991.0	7104.8	6069.1	5266.6
-42.5°	5360.2	5601.0	5753.4	5801.2	5753.4	5601.0	5360.2	5044.4	4638.9	4111.1	3677.7
-45°	3812.8	3879.3	3917.4	3924.7	3917.4	3879.3	3812.8	3719.4	3598.5	3452.0	3290.9
-47.5°	3397.9	3450.3	3477.1	3478.3	3477.1	3450.3	3397.9	3317.5	3214.7	3091.8	2966.3
-50°	3044.7	3093.2	3117.7	3119.4	3117.7	3093.2	3044.7	2974.5	2889.4	2787.7	2686.7
-52.5°	2736.7	2775.4	2793.3	2793.7	2793.3	2775.4	2736.7	2681.4	2613.8	2528.2	2446.2
-55°	2481.0	2511.1	2522.3	2520.1	2522.3	2511.1	2481.0	2437.0	2383.4	2311.6	2242.4
-57.5°	2271.8	2301.3	2310.6	2307.4	2310.6	2301.3	2271.8	2233.3	2187.0	2125.7	2063.1
-60°	2066.6	2098.2	2110.1	2109.1	2110.1	2098.2	2066.6	2022.0	1964.8	1894.4	1816.9
-62.5°	1742.2	1766.4	1779.4	1783.4	1779.4	1766.4	1742.2	1703.9	1650.3	1587.1	1516.7
-65°	1397.1	1416.4	1426.8	1430.1	1426.8	1416.4	1397.1	1366.8	1322.8	1272.2	1215.8
-67.5°	1084.4	1098.3	1104.9	1106.6	1104.9	1098.3	1084.4	1062.8	1029.5	991.1	948.0
-70°	838.7	850.0	855.4	857.4	855.4	850.0	838.7	822.1	795.6	766.3	734.5
-72.5°	661.4	670.5	674.2	675.7	674.2	670.5	661.4	649.0	627.5	604.9	581.7
-75°	534.1	539.5	541.7	542.8	541.7	539.5	534.1	526.4	510.1	493.1	475.3
-77.5°	450.4	456.2	458.3	459.7	458.3	456.2	450.4	443.6	431.3	418.2	402.6
-80°	398.5	402.6	404.1	405.4	404.1	402.6	398.5	393.7	382.8	371.8	359.5
-82.5°	361.8	367.3	367.7	367.8	367.7	367.3	361.8	355.9	346.7	337.3	326.8
-85°	326.8	330.9	331.7	332.3	331.7	330.9	326.8	322.4	314.1	305.7	296.7
-87.5°	296.1	300.1	300.2	300.2	300.2	300.1	296.1	292.0	284.6	277.2	269.3
-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°	242.6	237.6	232.6	229.3	226.0	221.0	216.0	208.8	201.6	194.4	187.2
87.5°	3.2	3.2	3.2	3.2	3.3	3.8	4.2	4.3	4.4	4.4	4.4
85°	3.3	3.8	4.2	4.2	4.1	4.2	4.4	4.7	5.0	4.9	4.9
82.5°	4.2	4.3	4.4	4.4	4.4	4.7	4.9	5.2	5.5	5.6	5.7
80°	4.4	4.4	4.4	4.7	5.0	5.2	5.5	5.6	5.7	6.1	6.4
77.5°	4.4	4.4	4.5	5.1	5.5	5.6	5.7	6.2	6.4	6.5	6.6
75°	6.5	6.2	6.0	6.2	6.3	6.4	6.5	6.5	6.7	6.9	6.9
72.5°	11.8	11.5	11.0	10.4	9.8	10.0	10.0	9.4	8.8	8.3	7.7
70°	17.8	18.4	19.0	19.0	19.1	19.1	17.7	15.7	13.8	13.1	11.3
67.5°	23.6	24.3	26.0	28.4	28.2	27.7	26.6	25.0	22.4	19.9	16.3
65°	26.9	28.2	28.3	28.1	30.0	31.9	33.9	33.1	33.0	29.5	23.3
62.5°	23.0	25.5	24.6	24.2	26.8	32.1	40.4	44.1	46.1	42.9	35.1
60°	13.5	15.2	16.2	18.0	21.3	30.2	43.4	52.9	61.0	55.5	46.4
57.5°	6.6	7.9	10.3	13.4	16.9	28.8	43.8	56.8	66.1	62.5	56.6
55°	11.0	12.6	13.8	15.1	16.4	29.1	42.5	55.8	65.8	64.7	59.7
52.5°	34.2	39.7	39.4	32.3	33.4	40.8	44.0	57.9	67.1	68.3	64.2
50°	141.3	146.8	127.7	105.5	105.5	83.5	86.9	83.4	80.7	82.8	74.9
47.5°	376.1	357.3	315.1	281.7	252.1	219.1	203.1	164.6	156.6	120.8	114.6
45°	643.0	614.2	564.6	508.7	460.8	417.9	378.4	347.2	287.8	256.2	180.7
42.5°	893.7	848.2	790.3	729.8	672.6	609.0	561.8	525.3	484.9	424.2	357.9
40°	1268.3	1067.1	994.0	922.7	846.3	772.5	718.8	663.7	635.1	587.4	523.2
37.5°	1985.2	1545.8	1327.9	1112.8	1019.1	936.8	874.7	818.1	763.5	721.5	661.1
35°	3160.4	2530.4	1949.7	1551.4	1236.3	1126.2	1044.6	979.9	912.5	844.8	787.8
32.5°	4637.0	3855.5	3030.7	2316.4	1743.7	1387.7	1245.2	1153.3	1066.9	983.6	901.8
30°	6412.5	5432.7	4388.6	3424.8	2634.1	1950.6	1503.9	1349.0	1232.3	1127.3	1020.1
27.5°	9473.5	7419.0	6153.8	4947.0	3944.9	2990.6	2127.7	1566.9	1411.9	1283.5	1156.2
25°	13667.4	11344.3	9057.7	7417.8	6074.5	4443.5	3059.2	2115.7	1628.4	1447.8	1296.2
22.5°	18917.8	15792.3	12928.5	10410.0	8448.6	6347.9	4376.7	2723.6	1861.6	1621.6	1443.3
20°	25555.7	20446.5	16865.9	13640.6	10817.0	8156.6	5662.7	3645.8	2374.3	1807.4	1586.3
17.5°	34322.1	26781.1	21272.3	17125.6	13536.3	10390.0	7375.2	4800.8	2854.5	1996.3	1726.9
15°	43587.1	33966.6	26479.6	20614.2	16020.5	12364.5	9116.7	5957.9	3524.5	2330.9	1883.7
12.5°	53499.5	41843.4	31830.8	24159.4	18370.4	14095.4	10543.9	7220.1	4428.7	2724.0	2017.0
10°	61843.1	48601.8	37298.6	28275.1	21423.8	16021.8	11763.3	8219.4	5151.3	3067.3	2134.3
7.5°	70601.8	54296.5	41466.4	31206.7	23778.3	18057.2	13019.4	8961.7	5705.4	3323.1	2224.7
5°	76575.1	58074.9	44295.3	33200.3	25263.8	19445.2	14204.0	9476.8	6056.5	3497.6	2300.3
2.5°	80319.6	60128.4	45824.6	34685.0	26046.2	20143.2	15132.0	10128.6	6353.4	3653.3	2376.1
0°	82466.3	62013.1	47093.0	35613.6	26480.4	20521.9	15613.5	10884.6	6553.3	3757.4	2437.0
-2.5°	84251.3	62354.1	46803.2	34897.0	26211.6	20339.1	15507.0	11172.5	6985.5	3862.9	2502.1
-5°	82313.1	61496.9	45765.2	34016.4	25842.6	20051.2	15282.9	11088.6	7104.4	3908.3	2548.3
-7.5°	77726.8	58942.1	44044.7	32728.4	25106.7	19569.2	14865.3	10613.4	6811.4	3928.8	2610.1
-10°	70798.6	54828.4	41145.4	30982.4	24050.6	18824.6	14251.0	10066.7	6416.0	3844.4	2649.9
-12.5°	63469.9	49702.0	37643.6	28542.1	22585.5	17771.2	13377.8	9315.3	5872.9	3652.2	2679.9
-15°	55590.8	43982.8	34102.6	26492.4	20872.1	16398.6	12266.7	8355.9	5170.9	3374.6	2685.1
-17.5°	47422.2	38239.8	29950.3	23795.6	18950.3	14784.3	10903.1	7390.7	4660.9	3167.2	2670.3
-20°	39196.2	32521.2	26533.7	21259.9	16753.1	12827.2	9277.1	6220.1	4139.5	3116.6	2664.0



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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°	32183.7	27700.3	23130.0	18546.3	14605.6	10864.5	7626.0	5054.8	3510.5	3006.9	2624.6
-25°	27052.8	23412.6	19679.4	16000.4	12304.3	8826.0	5966.9	4223.4	3299.1	2905.3	2552.3
-27.5°	22492.6	19345.3	16230.2	13024.4	9798.9	6878.1	4739.4	3481.4	3087.8	2769.7	2479.0
-30°	18227.2	15515.1	12770.5	9965.5	7427.3	5170.9	3727.3	3244.4	2910.9	2624.6	2364.0
-32.5°	14116.9	11850.0	9442.1	7229.1	5300.3	3959.4	3369.9	3016.6	2740.8	2488.3	2255.8
-35°	10219.5	8442.6	6526.3	5085.2	3880.2	3441.9	3117.3	2838.3	2582.1	2351.4	2145.4
-37.5°	6836.8	5557.4	4598.0	3721.6	3437.4	3160.3	2910.3	2663.7	2425.5	2227.9	2046.6
-40°	4572.6	3811.0	3596.9	3363.9	3147.8	2931.2	2709.8	2487.2	2292.7	2111.9	1952.6
-42.5°	3530.9	3377.6	3237.0	3074.2	2898.6	2711.0	2516.1	2333.7	2163.2	2009.7	1867.1
-45°	3168.0	3050.0	2937.4	2813.4	2664.9	2507.9	2342.1	2190.4	2045.2	1912.3	1782.1
-47.5°	2860.2	2766.2	2670.2	2574.9	2453.9	2325.3	2194.3	2060.4	1938.2	1808.9	1624.1
-50°	2592.5	2517.7	2436.4	2357.2	2271.5	2173.9	2060.5	1946.4	1806.9	1631.8	1458.5
-52.5°	2371.1	2306.7	2240.4	2180.0	2114.8	2033.2	1932.4	1776.3	1615.5	1448.5	1285.7
-55°	2181.5	2127.0	2072.3	2025.0	1963.7	1845.2	1717.1	1566.7	1410.0	1256.0	1116.2
-57.5°	2015.5	1955.4	1875.2	1796.7	1717.2	1605.6	1479.1	1338.0	1203.8	1074.9	948.1
-60°	1754.8	1687.3	1607.1	1525.2	1444.8	1346.2	1240.1	1125.8	1006.6	900.5	795.2
-62.5°	1455.5	1391.2	1321.4	1251.6	1186.5	1110.4	1017.7	926.2	829.7	735.7	659.8
-65°	1165.0	1114.0	1056.2	1000.7	949.6	893.3	815.5	745.9	677.3	607.2	541.1
-67.5°	907.6	867.6	822.7	778.7	746.1	711.0	659.4	602.8	552.8	507.4	465.3
-70°	705.0	678.7	650.0	618.6	593.7	572.0	539.9	502.0	462.8	427.5	395.1
-72.5°	560.5	543.9	525.7	505.8	485.8	469.7	447.6	419.8	390.7	359.6	334.1
-75°	458.2	446.0	432.7	419.1	404.7	389.2	374.9	358.3	340.5	321.5	303.9
-77.5°	388.2	379.7	371.2	363.7	355.7	347.0	336.3	321.7	307.7	293.0	279.2
-80°	347.8	340.7	333.7	328.1	322.0	314.8	306.5	294.3	281.9	269.2	257.3
-82.5°	316.5	310.5	304.5	299.1	293.5	286.9	279.8	269.3	258.7	247.5	236.6
-85°	287.7	282.3	276.8	271.8	266.8	260.9	254.7	245.6	236.4	226.5	216.6
-87.5°	261.3	256.0	250.7	247.0	243.2	237.7	232.2	224.5	216.8	208.2	199.7
-90°	2.2	2.2	2.2	2.8	3.3	3.3	3.3	3.9	4.4	4.4	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°	180.6	173.9	167.3	160.6	155.1	149.5	143.5	137.4	129.1	120.7	108.0
87.5°	4.8	5.1	5.6	6.1	6.1	6.1	6.6	7.1	7.1	7.0	7.5
85°	5.4	5.8	6.2	6.6	6.6	6.6	7.1	7.6	7.5	7.4	7.9
82.5°	6.1	6.5	6.5	6.6	7.0	7.2	7.7	8.1	8.0	7.9	8.3
80°	6.5	6.7	6.9	7.0	7.4	7.9	8.2	8.6	8.7	8.7	8.8
77.5°	6.6	6.8	7.4	7.6	7.7	7.9	8.5	9.0	9.4	9.4	9.5
75°	6.6	6.8	7.4	7.9	7.9	8.0	8.5	9.2	9.8	10.2	10.2
72.5°	7.4	7.5	7.8	8.1	8.4	8.7	9.0	9.3	10.1	10.7	10.9
70°	9.4	8.5	8.5	8.9	9.2	9.5	9.9	10.2	10.6	11.2	11.4
67.5°	12.3	11.0	10.1	10.1	10.4	10.7	11.0	11.2	11.5	11.8	12.1
65°	19.3	15.6	12.2	12.1	11.9	11.9	12.1	12.6	12.4	13.1	12.7
62.5°	27.8	22.3	18.7	15.5	14.5	15.2	13.5	15.0	13.8	14.6	14.2
60°	37.6	29.9	26.0	22.9	20.5	20.1	19.2	17.9	17.5	16.3	16.1
57.5°	45.9	36.7	34.5	31.1	29.6	27.6	26.4	24.2	21.8	20.4	18.2
55°	52.4	44.7	43.8	40.9	40.2	37.2	35.4	32.5	27.5	25.2	20.6
52.5°	56.1	55.1	54.1	54.0	53.3	48.9	46.9	41.4	37.1	30.5	25.5
50°	65.5	69.1	67.7	71.1	68.6	66.2	59.3	53.6	47.4	37.4	30.9
47.5°	96.7	99.4	91.8	94.2	89.7	86.2	77.6	67.5	58.4	47.6	36.5
45°	178.4	149.5	140.7	130.0	119.5	114.8	99.5	82.3	72.0	58.3	42.4
42.5°	292.0	251.8	224.5	173.0	169.2	149.8	126.0	106.1	86.2	69.5	50.6
40°	446.5	393.1	334.2	279.5	231.3	189.9	165.2	133.7	101.2	81.8	60.7
37.5°	594.9	534.2	474.1	400.3	313.2	256.8	209.9	163.5	120.6	96.1	70.9
35°	717.6	658.3	601.7	522.5	431.9	327.2	258.9	199.7	148.3	110.9	81.3
32.5°	828.0	759.6	692.6	628.3	530.4	399.1	318.4	241.0	176.6	126.3	91.8
30°	933.6	850.4	772.4	710.1	608.4	480.1	377.2	280.4	205.5	142.1	102.5
27.5°	1043.2	941.7	849.3	776.7	671.6	549.6	423.5	317.8	234.7	159.5	114.1
25°	1160.7	1041.4	939.0	846.8	735.3	601.3	464.9	353.2	265.3	179.6	125.2
22.5°	1285.0	1141.1	1025.5	921.9	805.7	651.6	505.2	389.5	288.9	198.3	135.8
20°	1402.6	1234.1	1104.4	984.3	873.1	708.7	546.6	418.9	311.0	215.7	145.8
17.5°	1519.7	1323.7	1165.6	1039.0	930.5	767.5	589.1	446.3	331.5	231.8	155.2
15°	1630.0	1411.1	1227.0	1087.5	976.5	823.0	630.6	472.1	350.3	246.4	164.5
12.5°	1732.3	1493.4	1287.7	1129.1	1010.6	872.8	670.3	496.1	367.3	261.0	174.1
10°	1823.9	1570.8	1347.0	1168.9	1040.4	916.9	707.6	522.4	389.3	275.6	183.0
7.5°	1899.3	1641.5	1401.6	1206.7	1067.2	954.8	748.0	556.2	411.0	288.7	191.2
5°	1963.9	1705.3	1455.8	1250.9	1098.3	985.5	784.7	588.0	431.1	300.4	198.8
2.5°	2022.5	1761.3	1506.8	1292.9	1127.1	1010.0	816.7	617.4	449.3	310.5	205.6
0°	2070.4	1807.8	1550.8	1330.4	1153.1	1029.1	844.1	643.6	465.2	319.0	211.6
-2.5°	2113.7	1840.8	1587.2	1369.7	1196.4	1057.6	860.8	656.8	478.3	330.2	218.8
-5°	2145.3	1864.9	1616.6	1404.1	1235.1	1080.7	872.8	666.3	488.7	339.6	225.2
-7.5°	2195.3	1893.0	1642.9	1434.2	1268.4	1097.4	879.8	672.4	496.4	346.8	230.6
-10°	2234.3	1918.7	1667.3	1459.0	1290.1	1111.5	883.5	675.0	501.2	351.9	234.9
-12.5°	2264.6	1937.2	1683.5	1477.5	1307.4	1123.5	892.9	677.9	503.0	354.5	238.2
-15°	2287.5	1964.4	1700.4	1490.2	1321.9	1129.6	895.4	677.8	500.8	354.1	240.3
-17.5°	2294.8	1974.9	1708.9	1500.1	1332.0	1130.0	890.4	672.1	495.3	350.6	241.7
-20°	2298.5	1979.1	1705.6	1501.0	1335.1	1116.7	877.4	660.5	486.3	345.1	242.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2287.9	1980.9	1716.8	1499.4	1324.3	1095.9	856.4	643.3	473.9	337.4	242.0
-25°	2243.1	1971.7	1718.9	1504.7	1296.3	1066.2	833.8	625.4	458.0	327.6	240.6
-27.5°	2189.2	1937.1	1708.4	1498.0	1267.4	1031.6	809.4	610.0	444.3	315.8	238.1
-30°	2129.8	1897.3	1683.6	1473.8	1228.8	994.0	779.9	589.9	431.6	308.7	234.6
-32.5°	2045.5	1851.0	1650.8	1423.0	1181.0	949.8	744.6	564.7	415.6	304.6	231.6
-35°	1963.5	1794.6	1610.8	1361.2	1124.9	905.0	706.2	534.3	396.3	298.7	228.1
-37.5°	1876.8	1724.7	1532.1	1289.4	1059.1	853.3	667.2	505.3	373.6	291.2	223.5
-40°	1798.6	1631.4	1423.3	1208.1	990.5	793.7	623.0	476.9	359.1	282.0	217.6
-42.5°	1715.9	1506.4	1308.0	1112.6	915.3	735.7	575.4	445.2	347.0	273.0	210.5
-45°	1579.9	1377.8	1185.8	1009.6	834.1	671.7	535.6	413.0	332.8	263.4	204.5
-47.5°	1436.6	1245.2	1064.1	901.5	755.3	606.7	489.6	394.2	316.4	252.4	200.9
-50°	1287.2	1111.8	944.5	799.7	665.2	551.7	445.6	372.7	301.7	239.7	196.6
-52.5°	1133.0	979.2	831.4	697.5	591.3	492.8	415.4	348.0	285.2	231.3	191.7
-55°	979.3	851.4	719.8	609.5	519.2	449.1	382.7	324.4	266.9	224.4	186.5
-57.5°	835.8	723.6	623.0	530.3	461.7	406.6	351.7	299.1	255.3	216.6	183.6
-60°	697.3	616.1	531.3	467.4	412.7	366.0	320.9	276.5	245.0	208.7	179.8
-62.5°	583.8	516.7	466.7	413.3	367.1	328.2	291.4	262.2	233.1	203.2	175.3
-65°	494.6	451.1	406.8	365.2	325.1	294.5	274.1	247.3	223.5	197.0	170.3
-67.5°	424.4	389.4	354.8	318.3	293.6	274.5	255.7	235.5	214.5	190.2	164.8
-70°	362.6	331.4	310.4	291.4	271.9	255.0	241.9	224.8	205.0	183.1	158.8
-72.5°	316.5	300.1	284.1	267.5	253.8	241.1	228.8	213.7	195.4	175.6	152.4
-75°	288.1	275.2	263.1	250.6	238.6	227.0	215.6	202.3	185.5	167.6	145.9
-77.5°	267.9	256.8	245.1	233.7	223.4	212.8	202.3	190.5	175.3	159.3	139.0
-80°	247.8	238.0	227.8	217.9	208.2	198.4	189.0	178.7	164.9	150.6	131.9
-82.5°	227.7	218.9	210.5	201.9	193.4	185.0	176.1	166.7	154.3	141.6	125.2
-85°	209.0	201.5	193.7	185.7	178.6	171.4	163.7	155.8	145.3	134.7	119.6
-87.5°	193.2	186.7	179.7	172.6	166.6	160.5	153.6	146.7	137.2	127.8	113.9
-90°	4.4	4.4	5.0	5.5	5.5	5.5	6.1	6.6	6.6	6.6	7.2



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	95.3	79.2	63.1	45.4	27.7	18.8	10.0
87.5°	8.1	8.2	8.2	8.1	8.0	9.1	10.0
85°	8.4	8.5	8.6	8.4	8.2	9.3	10.0
82.5°	8.7	8.9	8.9	8.7	8.4	9.5	10.0
80°	9.0	9.3	9.3	8.9	8.6	9.7	10.0
77.5°	9.6	9.7	9.7	9.2	8.8	9.9	10.0
75°	10.2	10.2	10.1	9.5	9.1	10.1	10.0
72.5°	10.8	10.7	10.5	9.8	9.3	10.3	10.0
70°	11.4	11.1	10.9	10.1	9.6	10.5	10.0
67.5°	12.1	11.6	11.3	10.5	9.9	10.7	10.0
65°	13.0	12.4	11.8	11.0	10.2	10.9	10.0
62.5°	13.9	13.4	12.3	11.4	10.5	11.2	10.0
60°	14.9	14.4	12.8	11.9	10.9	11.4	10.0
57.5°	17.0	15.5	13.9	12.3	11.5	11.6	10.0
55°	19.3	16.7	15.1	12.8	12.1	11.8	10.0
52.5°	21.8	18.1	16.4	13.3	12.8	12.1	10.0
50°	24.3	20.6	17.8	13.8	13.5	12.3	10.0
47.5°	27.3	23.2	19.2	14.4	14.3	12.6	10.0
45°	32.4	25.9	20.7	15.5	15.1	12.8	10.0
42.5°	37.5	28.8	22.2	16.7	15.9	13.0	10.0
40°	43.0	31.8	24.1	18.3	16.8	13.3	10.0
37.5°	48.6	34.8	26.5	20.2	17.7	13.5	10.0
35°	54.3	38.9	28.8	22.2	18.6	13.7	10.0
32.5°	60.9	43.4	31.2	24.2	19.6	14.0	10.0
30°	69.3	47.9	33.6	26.2	20.6	14.2	10.0
27.5°	77.5	52.3	36.8	28.2	21.6	14.4	10.0
25°	85.5	56.6	40.0	30.2	22.6	14.7	10.0
22.5°	93.2	61.0	43.2	32.2	23.6	14.9	10.0
20°	100.6	66.1	46.4	34.2	24.6	15.1	10.0
17.5°	108.2	71.0	49.4	36.2	25.6	15.3	10.0
15°	115.7	75.7	52.3	38.2	26.6	15.5	10.0
12.5°	122.9	80.3	55.2	40.1	27.6	15.7	10.0
10°	129.5	84.7	57.9	41.9	28.6	15.9	10.0
7.5°	135.6	88.8	60.5	43.7	29.5	16.1	10.0
5°	141.2	92.7	63.0	45.5	30.4	16.3	10.0
2.5°	146.2	96.4	65.4	47.1	31.3	16.4	10.0
0°	150.7	99.7	67.6	48.7	32.1	16.6	10.0
-2.5°	155.9	103.7	70.7	50.8	33.3	17.2	10.0
-5°	160.4	107.4	73.7	52.7	34.5	17.8	10.0
-7.5°	164.3	110.8	76.5	54.6	35.6	18.3	10.0
-10°	167.6	113.8	79.1	56.3	36.6	18.9	10.0
-12.5°	170.1	116.5	81.6	57.9	37.6	19.4	10.0
-15°	172.0	118.8	83.8	59.4	38.5	19.9	10.0
-17.5°	173.1	120.7	85.7	60.8	39.3	20.4	10.0
-20°	173.9	122.3	87.5	62.0	40.1	20.8	10.0



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	174.8	123.4	89.0	63.0	40.7	21.3	10.0
-25°	174.8	124.9	90.2	63.9	41.3	21.6	10.0
-27.5°	174.1	126.2	91.1	64.6	41.8	22.0	10.0
-30°	172.6	127.0	91.9	65.2	42.2	22.3	10.0
-32.5°	170.2	127.4	93.1	65.6	42.6	22.6	10.0
-35°	169.3	127.4	94.1	65.9	42.8	22.8	10.0
-37.5°	168.8	127.4	94.8	65.9	43.0	23.0	10.0
-40°	167.8	128.0	95.2	65.8	43.0	23.2	10.0
-42.5°	166.0	128.2	95.6	65.8	43.0	23.3	10.0
-45°	163.4	128.1	95.7	65.9	42.9	23.4	10.0
-47.5°	160.4	127.6	95.6	65.8	42.8	23.5	10.0
-50°	158.8	126.8	95.3	65.8	42.5	23.5	10.0
-52.5°	157.1	125.7	94.6	65.7	42.1	23.5	10.0
-55°	155.0	124.1	93.6	65.5	41.7	23.4	10.0
-57.5°	152.5	122.3	92.4	65.0	41.2	23.3	10.0
-60°	149.7	120.0	90.9	64.4	40.6	23.1	10.0
-62.5°	146.3	117.5	89.7	63.6	40.0	22.9	10.0
-65°	142.6	114.6	88.2	62.6	39.3	22.7	10.0
-67.5°	138.4	111.6	86.5	61.5	38.5	22.5	10.0
-70°	133.9	108.6	84.6	60.2	37.6	22.2	10.0
-72.5°	129.3	105.3	82.4	58.8	36.6	21.9	10.0
-75°	124.3	101.7	80.1	57.3	35.5	21.5	10.0
-77.5°	119.1	97.9	77.6	55.6	34.4	21.1	10.0
-80°	113.5	94.3	75.1	53.8	33.1	20.7	10.0
-82.5°	109.1	90.7	72.3	51.9	31.9	20.3	10.0
-85°	104.7	87.1	69.4	49.8	30.5	19.8	10.0
-87.5°	100.1	83.2	66.3	47.7	29.1	19.3	10.0
-90°	7.8	7.8	7.8	7.8	7.8	8.9	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

