

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: P735986 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735986 (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-40-80-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

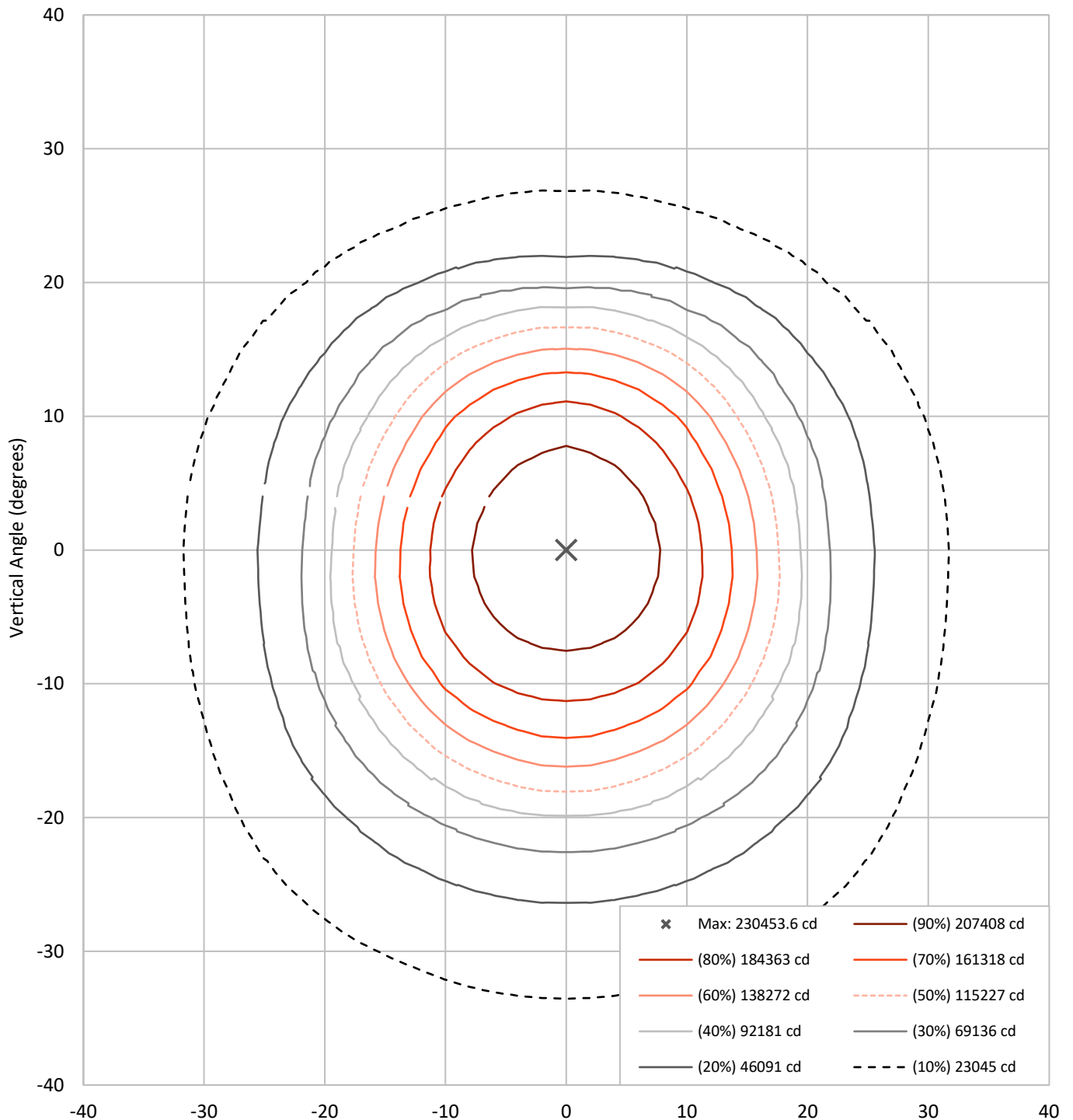
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	95596.7 lumens	Max Intensity:	230453.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.1 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:	51309.6 lumens	Field Lumens:	83496.1 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





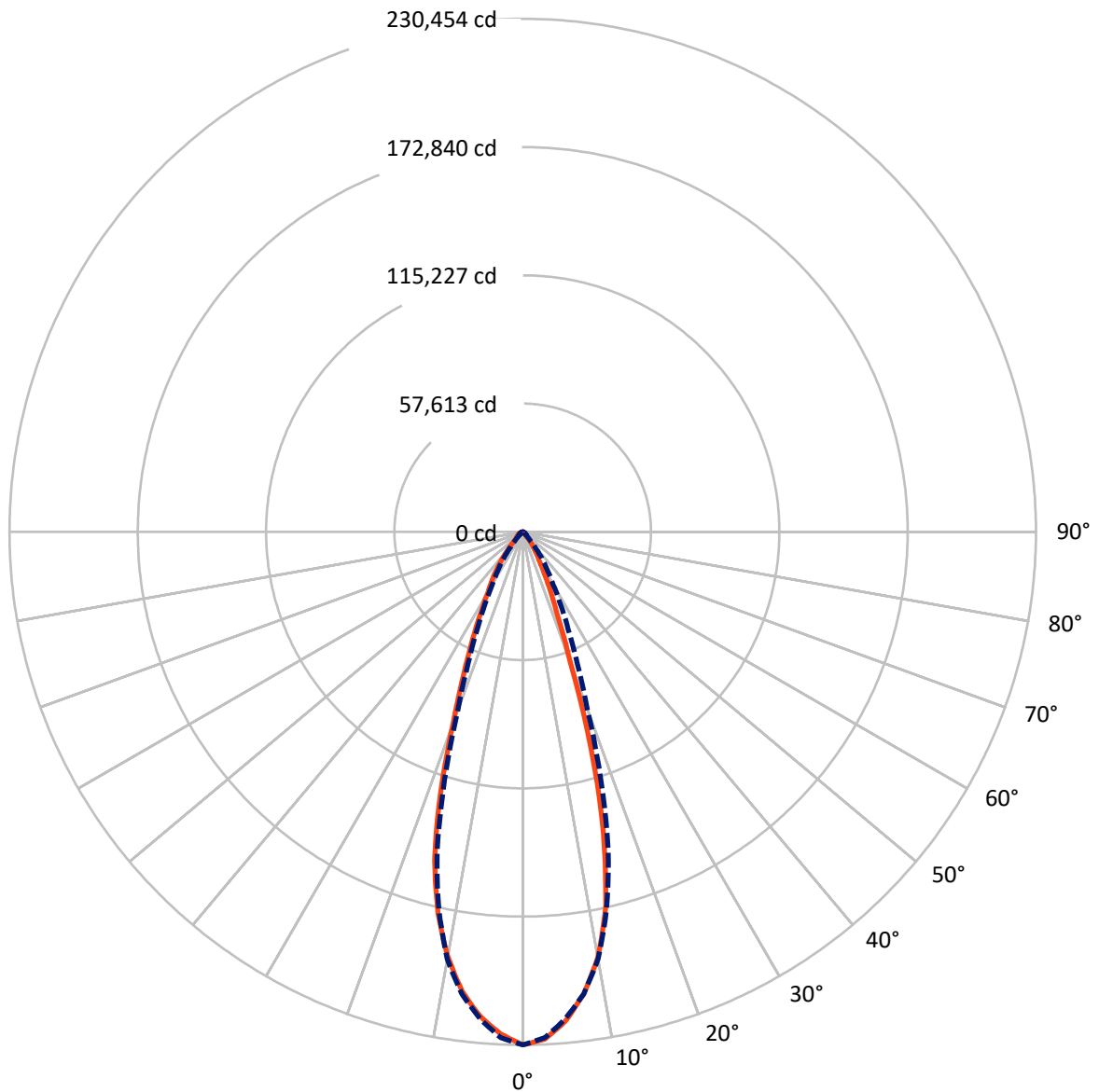
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Lumen Table

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	1.3	1.3	1.2	0.9	1.3	1.3	0.8	0.4				
50	0.9	1.2	2.7	5.5	10.0	15.9	23.2	29.9	29.9	23.2	15.9	10.0	5.5	2.7	1.2	0.9			
40		2.9	9.1	17.4	28.6	66.0	147.5	239.0	239.0	147.5	66.0	28.6	17.4	9.1	2.9				
30	2.1	5.0	15.2	29.4	92.3	283.8	619.3	939.1	939.1	619.3	283.8	92.3	29.4	15.2	5.0	2.1			
20		6.8	19.9	47.0	240.1	796.4	2127.8	3781.0	3781.0	2127.8	796.4	240.1	47.0	19.9	6.8				
10	3.1	8.3	23.3	65.2	375.8	1307.1	3868.7	6195.0	6195.0	3868.7	1307.1	375.8	65.2	23.3	8.3	3.1			
0		9.3	25.9	72.9	402.8	1372.8	4055.8	6244.0	6244.0	4055.8	1372.8	402.8	72.9	25.9	9.3				
-10	3.5	9.6	27.4	67.1	321.5	1014.1	2553.0	4194.4	4194.4	2553.0	1014.1	321.5	67.1	27.4	9.6	3.5			
-20		8.9	27.3	57.5	176.9	563.2	1105.8	1596.8	1596.8	1105.8	563.2	176.9	57.5	27.3	8.9				
-30	3.3	7.6	24.6	48.2	85.0	209.0	421.1	582.1	582.1	421.1	209.0	85.0	48.2	24.6	7.6	3.3			
-40		6.0	18.4	38.5	60.7	84.3	115.1	147.3	147.3	115.1	84.3	60.7	38.5	18.4	6.0				
-50	2.8	4.4	11.5	25.1	43.2	58.3	70.4	79.0	79.0	70.4	58.3	43.2	25.1	11.5	4.4	2.8			
-60		3.3	6.8	12.7	21.7	30.8	39.1	44.7	44.7	39.1	30.8	21.7	12.7	6.8	3.3				
-70	2.1	12.1	27.3	44.2	54.2	44.2	27.3	12.1	2.1						2.1				
-80		12.1	27.3	44.2	54.2	44.2	27.3	12.1	2.1										
-90	2.1	12.1	27.3	44.2	54.2	44.2	27.3	12.1	2.1										

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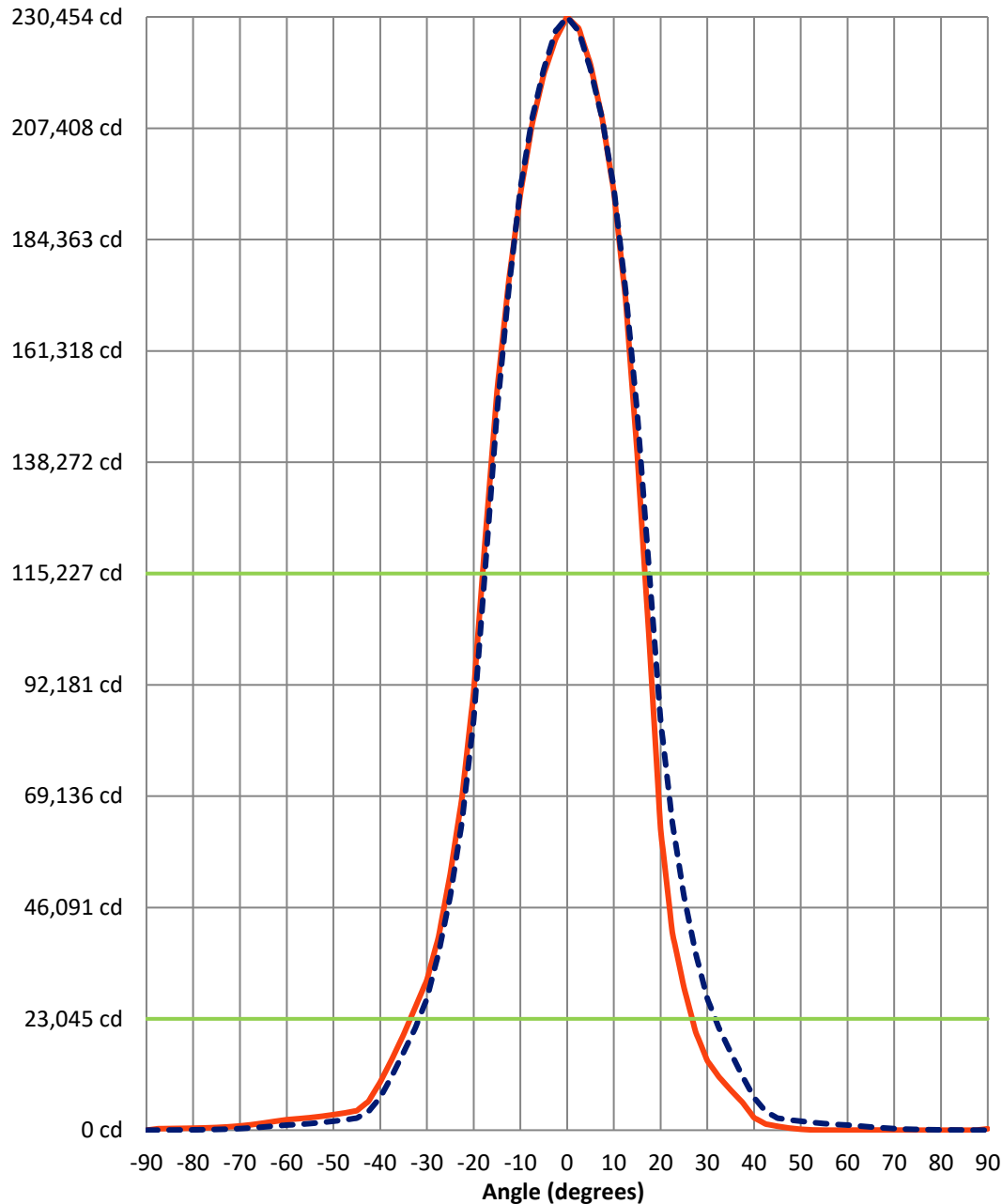
Luminous Intensity Polar Plot



— 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: 51309.6
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 83496.1
 Efficiency: 87.3%

Spill:
 Lumens: 12100.6
 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°	10.3	19.4	28.5	46.7	65.0	81.5	98.0	111.2	124.3	132.9	141.4
87.5°	10.3	9.3	8.2	8.3	8.4	8.4	8.3	7.7	7.2	7.3	7.3
85°	10.3	9.6	8.4	8.6	8.8	8.7	8.6	8.1	7.6	7.7	7.8
82.5°	10.3	9.8	8.6	8.9	9.2	9.1	8.9	8.5	8.1	8.3	8.3
80°	10.3	10.0	8.9	9.2	9.6	9.5	9.2	9.1	8.9	8.9	8.8
77.5°	10.3	10.2	9.1	9.5	10.0	9.9	9.8	9.8	9.7	9.6	9.2
75°	10.3	10.4	9.3	9.8	10.4	10.4	10.4	10.5	10.5	10.1	9.4
72.5°	10.3	10.6	9.6	10.1	10.8	10.9	11.1	11.2	11.0	10.4	9.6
70°	10.3	10.8	9.9	10.4	11.2	11.4	11.7	11.8	11.5	10.8	10.5
67.5°	10.3	11.0	10.2	10.8	11.6	11.9	12.5	12.4	12.1	11.8	11.5
65°	10.3	11.3	10.5	11.3	12.1	12.7	13.3	13.1	13.5	12.8	13.0
62.5°	10.3	11.5	10.8	11.7	12.6	13.7	14.3	14.6	15.0	14.3	15.4
60°	10.3	11.7	11.2	12.2	13.1	14.8	15.3	16.6	16.8	18.0	18.4
57.5°	10.3	12.0	11.8	12.7	14.3	15.9	17.5	18.8	20.9	22.4	24.9
55°	10.3	12.2	12.5	13.1	15.5	17.1	19.9	21.2	26.0	28.3	33.4
52.5°	10.3	12.4	13.2	13.6	16.9	18.6	22.4	26.3	31.4	38.2	42.6
50°	10.3	12.7	13.9	14.1	18.3	21.1	25.0	31.8	38.4	48.8	55.2
47.5°	10.3	12.9	14.7	14.8	19.7	23.8	28.1	37.6	48.9	60.1	69.5
45°	10.3	13.2	15.5	16.0	21.2	26.7	33.3	43.6	60.0	74.1	84.7
42.5°	10.3	13.4	16.4	17.1	22.8	29.6	38.6	52.0	71.5	88.7	109.2
40°	10.3	13.7	17.3	18.8	24.8	32.7	44.2	62.4	84.2	104.1	137.6
37.5°	10.3	13.9	18.2	20.8	27.2	35.8	50.0	72.9	98.8	124.1	168.3
35°	10.3	14.2	19.2	22.8	29.6	40.1	55.9	83.7	114.1	152.6	205.6
32.5°	10.3	14.4	20.2	24.9	32.1	44.7	62.6	94.4	129.9	181.7	248.1
30°	10.3	14.6	21.2	27.0	34.5	49.3	71.3	105.4	146.2	211.4	288.6
27.5°	10.3	14.9	22.2	29.0	37.9	53.8	79.8	117.4	164.2	241.6	327.0
25°	10.3	15.1	23.3	31.1	41.2	58.2	88.0	128.9	184.8	273.0	363.5
22.5°	10.3	15.3	24.3	33.2	44.5	62.8	95.9	139.8	204.1	297.3	400.9
20°	10.3	15.6	25.4	35.2	47.7	68.0	103.5	150.1	222.1	320.1	431.1
17.5°	10.3	15.8	26.4	37.3	50.8	73.1	111.3	159.7	238.6	341.2	459.3
15°	10.3	16.0	27.5	39.3	53.9	78.0	119.1	169.4	253.6	360.5	485.9
12.5°	10.3	16.2	28.5	41.3	56.8	82.7	126.5	179.2	268.7	378.0	510.6
10°	10.3	16.4	29.5	43.2	59.6	87.2	133.3	188.4	283.6	400.6	537.7
7.5°	10.3	16.6	30.5	45.1	62.2	91.4	139.6	196.9	297.1	423.0	572.4
5°	10.3	16.8	31.4	46.9	64.8	95.4	145.3	204.6	309.1	443.7	605.2
2.5°	10.3	16.9	32.3	48.6	67.2	99.2	150.5	211.6	319.6	462.4	635.4
0°	10.3	17.1	33.1	50.2	69.5	102.6	155.1	217.8	328.3	478.8	662.4
-2.5°	10.3	17.7	34.4	52.3	72.7	106.7	160.4	225.3	339.8	492.3	676.0
-5°	10.3	18.3	35.6	54.3	75.8	110.5	165.1	231.8	349.4	503.0	685.8
-7.5°	10.3	18.9	36.7	56.2	78.7	114.0	169.1	237.3	356.9	510.9	692.0
-10°	10.3	19.5	37.8	58.0	81.4	117.1	172.5	241.8	362.1	515.9	694.7
-12.5°	10.3	20.0	38.8	59.7	83.9	119.9	175.1	245.1	364.8	517.7	697.8
-15°	10.3	20.5	39.7	61.2	86.2	122.2	177.0	247.3	364.4	515.4	697.7
-17.5°	10.3	21.0	40.5	62.6	88.2	124.2	178.1	248.7	360.8	509.7	691.8
-20°	10.3	21.5	41.3	63.8	90.0	125.8	179.0	249.4	355.1	500.5	679.9



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.3	21.9	41.9	64.9	91.6	127.0	179.9	249.1	347.2	487.7	662.2
-25°	10.3	22.3	42.5	65.8	92.8	128.5	179.9	247.6	337.2	471.3	643.6
-27.5°	10.3	22.6	43.1	66.5	93.8	129.9	179.2	245.1	325.0	457.2	627.8
-30°	10.3	23.0	43.5	67.1	94.6	130.8	177.6	241.5	317.7	444.2	607.1
-32.5°	10.3	23.3	43.8	67.5	95.8	131.2	175.2	238.4	313.4	427.8	581.1
-35°	10.3	23.5	44.1	67.8	96.8	131.2	174.3	234.8	307.4	407.8	549.9
-37.5°	10.3	23.7	44.2	67.9	97.5	131.2	173.8	230.0	299.7	384.5	520.0
-40°	10.3	23.9	44.3	67.8	98.0	131.7	172.7	224.0	290.2	369.5	490.8
-42.5°	10.3	24.0	44.3	67.7	98.3	132.0	170.8	216.7	281.0	357.1	458.2
-45°	10.3	24.1	44.2	67.8	98.5	131.8	168.2	210.5	271.1	342.5	425.0
-47.5°	10.3	24.2	44.0	67.8	98.4	131.3	165.1	206.7	259.7	325.6	405.7
-50°	10.3	24.2	43.7	67.8	98.0	130.5	163.4	202.4	246.7	310.5	383.6
-52.5°	10.3	24.1	43.4	67.7	97.3	129.3	161.7	197.3	238.1	293.5	358.2
-55°	10.3	24.1	42.9	67.4	96.4	127.7	159.5	192.0	231.0	274.8	333.9
-57.5°	10.3	24.0	42.4	66.9	95.1	125.8	157.0	188.9	222.9	262.8	307.8
-60°	10.3	23.8	41.8	66.3	93.6	123.5	154.0	185.0	214.8	252.2	284.6
-62.5°	10.3	23.6	41.2	65.5	92.4	120.9	150.6	180.4	209.1	240.0	269.8
-65°	10.3	23.4	40.4	64.5	90.8	117.9	146.7	175.3	202.7	230.1	254.5
-67.5°	10.3	23.1	39.6	63.3	89.1	114.9	142.4	169.5	195.8	220.7	242.3
-70°	10.3	22.8	38.7	62.0	87.1	111.8	137.7	163.4	188.4	211.0	231.3
-72.5°	10.3	22.5	37.6	60.5	84.9	108.4	133.0	156.8	180.7	201.1	220.0
-75°	10.3	22.1	36.5	58.9	82.4	104.7	127.9	150.1	172.5	190.9	208.2
-77.5°	10.3	21.7	35.4	57.2	79.9	100.7	122.5	143.1	163.9	180.4	196.1
-80°	10.3	21.3	34.1	55.4	77.3	97.0	116.8	135.7	155.0	169.7	184.0
-82.5°	10.3	20.9	32.8	53.4	74.4	93.4	112.2	128.8	145.7	158.8	171.7
-85°	10.3	20.4	31.4	51.3	71.5	89.6	107.7	123.1	138.7	149.5	160.3
-87.5°	10.3	19.9	30.0	49.1	68.3	85.6	102.9	117.2	131.6	141.3	151.0
-90°	10.3	9.2	8.0	8.0	8.0	8.0	8.0	7.4	6.8	6.8	6.8



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	147.7	153.9	159.6	165.3	172.2	179.0	185.9	192.7	200.1	207.5	214.9
87.5°	6.8	6.3	6.3	6.3	5.8	5.3	5.0	4.6	4.6	4.6	4.5
85°	7.3	6.8	6.8	6.8	6.4	6.0	5.6	5.1	5.1	5.2	4.9
82.5°	7.9	7.4	7.2	6.8	6.7	6.7	6.3	5.9	5.8	5.7	5.4
80°	8.4	8.1	7.6	7.2	7.1	6.9	6.7	6.6	6.3	5.9	5.8
77.5°	8.7	8.1	7.9	7.8	7.6	7.0	6.8	6.8	6.7	6.6	6.4
75°	8.7	8.2	8.1	8.1	7.6	7.0	6.8	7.1	7.1	6.9	6.7
72.5°	9.2	8.9	8.6	8.3	8.0	7.7	7.6	7.9	8.5	9.1	9.6
70°	10.2	9.7	9.4	9.2	8.7	8.7	9.7	11.6	13.4	14.2	16.1
67.5°	11.2	10.9	10.6	10.3	10.4	11.3	12.6	16.8	20.5	23.0	25.7
65°	12.4	12.2	12.2	12.4	12.5	16.0	19.7	23.9	30.4	34.0	34.1
62.5°	13.9	15.7	14.9	15.9	19.2	22.8	28.6	36.1	44.2	47.5	45.4
60°	19.7	20.6	21.0	23.5	26.7	30.8	38.7	47.8	57.2	62.8	54.4
57.5°	27.2	28.3	30.5	31.9	35.5	37.9	47.3	58.3	64.4	68.0	58.5
55°	36.4	38.2	41.4	42.0	45.1	46.1	53.9	61.5	66.6	67.8	57.5
52.5°	48.3	50.3	54.9	55.6	55.7	56.7	57.8	66.2	70.3	69.1	59.6
50°	61.1	68.1	70.6	73.1	69.8	71.2	67.4	77.0	85.3	83.1	85.8
47.5°	79.9	88.7	92.3	97.0	94.6	102.3	99.5	117.9	124.3	161.2	169.4
45°	102.5	118.2	123.0	133.8	144.8	153.9	183.6	186.0	263.7	296.2	357.3
42.5°	129.7	154.2	174.1	178.1	231.1	259.2	300.5	368.4	436.6	499.1	540.6
40°	170.1	195.5	238.0	287.7	343.9	404.6	459.6	538.5	604.5	653.6	683.0
37.5°	216.1	264.3	322.3	412.0	487.9	549.8	612.3	680.5	742.6	785.8	842.0
35°	266.5	336.8	444.5	537.8	619.3	677.5	738.5	810.8	869.5	939.1	1008.5
32.5°	327.7	410.8	545.8	646.6	712.8	781.7	852.1	928.2	1012.3	1098.0	1186.9
30°	388.3	494.1	626.1	730.8	794.9	875.2	960.8	1049.9	1160.3	1268.3	1388.4
27.5°	435.9	565.6	691.2	799.4	874.1	969.1	1073.6	1189.9	1320.9	1453.2	1612.7
25°	478.4	618.8	756.8	871.5	966.4	1071.7	1194.5	1334.1	1490.1	1676.0	2177.6
22.5°	520.0	670.6	829.2	948.7	1055.4	1174.4	1322.5	1485.4	1669.0	1916.0	2803.1
20°	562.6	729.3	898.6	1013.0	1136.7	1270.1	1443.6	1632.6	1860.1	2443.7	3752.3
17.5°	606.3	789.9	957.7	1069.3	1199.6	1362.4	1564.1	1777.3	2054.6	2937.8	4941.0
15°	649.1	847.0	1005.0	1119.2	1262.9	1452.3	1677.6	1938.7	2399.0	3627.4	6131.9
12.5°	689.9	898.3	1040.2	1162.1	1325.3	1537.0	1782.8	2075.9	2803.6	4558.0	7430.9
10°	728.3	943.7	1070.8	1203.0	1386.3	1616.6	1877.1	2196.7	3156.9	5301.7	8459.4
7.5°	769.9	982.6	1098.4	1241.9	1442.5	1689.4	1954.8	2289.6	3420.1	5871.9	9223.3
5°	807.6	1014.2	1130.4	1287.4	1498.4	1755.1	2021.3	2367.5	3599.7	6233.4	9753.5
2.5°	840.5	1039.4	1160.1	1330.6	1550.8	1812.7	2081.5	2445.4	3760.0	6538.9	10424.4
0°	868.7	1059.1	1186.8	1369.2	1596.1	1860.6	2130.8	2508.2	3867.1	6744.7	11202.4
-2.5°	885.9	1088.5	1231.3	1409.6	1633.5	1894.6	2175.3	2575.2	3975.7	7189.4	11498.7
-5°	898.2	1112.2	1271.2	1445.1	1663.8	1919.4	2207.9	2622.7	4022.4	7311.8	11412.4
-7.5°	905.5	1129.5	1305.4	1476.1	1690.9	1948.2	2259.4	2686.3	4043.5	7010.3	10923.3
-10°	909.3	1143.9	1327.8	1501.7	1715.9	1974.7	2299.5	2727.3	3956.7	6603.4	10360.7
-12.5°	919.0	1156.3	1345.6	1520.6	1732.6	1993.8	2330.7	2758.1	3758.8	6044.4	9587.3
-15°	921.6	1162.6	1360.5	1533.7	1750.0	2021.8	2354.3	2763.4	3473.1	5322.0	8599.9
-17.5°	916.4	1163.0	1370.9	1543.9	1758.7	2032.5	2361.8	2748.2	3259.6	4797.0	7606.5
-20°	903.1	1149.4	1374.1	1544.8	1755.4	2036.8	2365.6	2741.7	3207.6	4260.3	6401.7



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	881.4	1127.9	1363.0	1543.2	1766.9	2038.7	2354.6	2701.1	3094.6	3612.9	5202.4
-25°	858.2	1097.4	1334.1	1548.7	1769.1	2029.2	2308.6	2626.7	2990.1	3395.4	4346.7
-27.5°	833.1	1061.8	1304.4	1541.8	1758.3	1993.6	2253.2	2551.3	2850.5	3177.9	3583.1
-30°	802.7	1023.1	1264.7	1516.8	1732.7	1952.7	2191.9	2433.0	2701.2	2995.9	3339.1
-32.5°	766.3	977.5	1215.5	1464.5	1699.0	1905.0	2105.1	2321.6	2560.9	2820.8	3104.6
-35°	726.8	931.4	1157.7	1400.9	1657.8	1847.0	2020.8	2208.1	2420.1	2657.5	2921.2
-37.5°	686.7	878.2	1090.0	1327.1	1576.9	1775.0	1931.6	2106.3	2293.0	2496.3	2741.5
-40°	641.2	816.9	1019.4	1243.4	1464.9	1679.0	1851.1	2009.5	2173.6	2359.6	2559.8
-42.5°	592.2	757.2	942.1	1145.1	1346.2	1550.4	1765.9	1921.6	2068.4	2226.3	2401.8
-45°	551.3	691.3	858.5	1039.1	1220.3	1418.1	1626.1	1834.2	1968.1	2104.8	2254.4
-47.5°	503.8	624.5	777.3	927.8	1095.1	1281.5	1478.5	1671.5	1861.8	1994.8	2120.6
-50°	458.6	567.8	684.6	823.1	972.1	1144.2	1324.8	1501.2	1679.6	1859.7	2003.2
-52.5°	427.5	507.2	608.5	717.9	855.7	1007.8	1166.1	1323.3	1490.8	1662.7	1828.2
-55°	393.9	462.1	534.4	627.3	740.8	876.3	1007.9	1148.8	1292.7	1451.2	1612.4
-57.5°	361.9	418.5	475.1	545.7	641.2	744.7	860.2	975.9	1106.3	1239.0	1377.1
-60°	330.2	376.6	424.7	481.1	546.8	634.1	717.7	818.5	926.8	1036.0	1158.7
-62.5°	299.9	337.7	377.8	425.4	480.4	531.9	600.9	679.0	757.2	853.9	953.3
-65°	282.1	303.1	334.6	375.9	418.7	464.3	509.1	556.9	624.9	697.1	767.7
-67.5°	263.1	282.5	302.2	327.7	365.2	400.7	436.7	478.8	522.2	568.9	620.4
-70°	248.9	262.5	279.9	299.9	319.5	341.0	373.1	406.6	440.0	476.3	516.7
-72.5°	235.5	248.1	261.2	275.3	292.4	308.8	325.7	343.8	370.1	402.1	432.0
-75°	222.0	233.6	245.5	257.9	270.7	283.2	296.5	312.7	330.9	350.5	368.8
-77.5°	208.2	219.0	229.9	240.6	252.2	264.2	275.7	287.3	301.5	316.7	331.1
-80°	194.6	204.2	214.3	224.2	234.4	244.9	255.0	264.8	277.0	290.1	302.9
-82.5°	181.3	190.4	199.0	207.7	216.6	225.3	234.4	243.6	254.8	266.3	277.1
-85°	168.5	176.4	183.8	191.1	199.3	207.3	215.1	222.9	233.1	243.4	252.8
-87.5°	158.1	165.2	171.5	177.7	184.9	192.1	198.9	205.5	214.3	223.1	231.1
-90°	6.3	5.7	5.7	5.7	5.2	4.6	4.6	4.6	4.6	4.6	4.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	222.3	227.5	232.6	236.0	239.4	244.6	249.7	257.1	264.5	270.8	277.0
87.5°	4.4	3.9	3.4	3.3	3.3	3.3	3.3	2.8	2.3	2.3	2.3
85°	4.6	4.4	4.3	4.3	4.4	3.9	3.4	3.4	3.3	3.3	3.4
82.5°	5.1	4.9	4.6	4.6	4.6	4.5	4.4	3.9	3.4	3.4	3.4
80°	5.7	5.4	5.2	4.9	4.6	4.6	4.6	4.1	3.5	3.4	3.4
77.5°	5.9	5.8	5.7	5.3	4.7	4.6	4.6	4.1	3.5	3.4	3.4
75°	6.7	6.6	6.5	6.4	6.2	6.4	6.7	6.6	6.2	5.9	5.6
72.5°	10.2	10.3	10.1	10.7	11.3	11.8	12.1	12.4	12.9	13.7	14.8
70°	18.1	19.6	19.6	19.6	19.5	18.9	18.3	18.1	18.2	18.6	19.0
67.5°	27.4	28.5	29.0	29.3	26.7	25.0	24.3	24.4	25.5	27.5	30.5
65°	34.9	32.8	30.9	28.9	29.1	29.0	27.7	27.1	28.0	29.2	30.6
62.5°	41.6	33.0	27.5	24.8	25.3	26.2	23.7	21.7	21.1	20.8	20.9
60°	44.7	31.1	21.9	18.6	16.7	15.7	14.0	12.0	11.3	11.1	11.4
57.5°	45.1	29.6	17.4	13.8	10.5	8.1	6.8	6.0	6.0	5.8	5.7
55°	43.7	29.9	17.0	15.5	14.2	13.0	11.3	11.0	10.4	10.4	11.0
52.5°	45.2	41.9	34.3	33.3	40.6	40.8	35.1	43.3	48.7	53.0	55.0
50°	89.4	85.9	108.6	108.5	131.4	151.1	145.4	156.9	176.7	193.9	204.5
47.5°	209.0	225.5	259.4	289.9	324.3	367.8	387.1	400.8	418.1	441.3	456.9
45°	389.4	430.1	474.2	523.5	581.1	632.0	661.7	690.2	709.1	729.8	754.2
42.5°	578.1	626.7	692.2	751.1	813.4	872.9	919.8	961.1	1041.7	1156.6	1248.0
40°	739.8	795.1	871.0	949.7	1023.0	1098.3	1305.3	1481.8	1701.6	2029.8	2320.7
37.5°	900.3	964.2	1048.9	1145.3	1366.7	1590.9	2043.1	2531.5	2954.7	3429.3	3908.5
35°	1075.2	1159.0	1272.3	1596.7	2006.6	2604.2	3252.6	3978.1	4593.8	5256.4	6227.2
32.5°	1281.6	1428.2	1794.6	2384.1	3119.1	3968.1	4772.4	5684.3	6453.3	7670.8	9153.4
30°	1547.8	2007.6	2711.0	3524.8	4516.7	5591.3	6599.8	8076.7	9802.2	11329.7	12591.0
27.5°	2189.8	3077.9	4060.1	5091.4	6333.5	7635.6	9750.0	11661.6	13518.2	15167.5	17083.6
25°	3148.5	4573.2	6251.8	7634.4	9322.2	11675.6	14066.5	16171.7	18993.3	21475.0	24258.9
22.5°	4504.5	6533.2	8695.3	10714.0	13305.9	16253.4	19470.1	23349.2	27268.9	31622.9	35496.3
20°	5828.1	8394.8	11132.8	14038.8	17358.3	21043.5	26301.8	32597.1	38637.2	45496.7	51280.9
17.5°	7590.6	10693.4	13931.6	17625.5	21893.3	27563.0	35324.2	43932.1	53272.3	63515.4	72987.6
15°	9382.9	12725.6	16488.3	21216.0	27252.7	34958.3	44859.6	56577.8	70237.1	85294.8	103601.2
12.5°	10851.8	14506.9	18906.8	24864.8	32760.2	43065.0	55061.5	69167.4	87893.7	110605.0	131873.5
10°	12106.7	16489.6	22049.3	29100.7	38387.6	50020.8	63648.7	81112.7	106338.1	132648.3	155988.5
7.5°	13399.5	18584.4	24472.5	32117.8	42677.1	55881.8	72663.2	95468.8	123223.3	150208.8	171612.8
5°	14618.8	20012.9	26001.4	34169.7	45588.6	59770.5	78810.8	106588.2	136791.1	163221.6	183330.6
2.5°	15573.9	20731.3	26806.7	35697.7	47162.6	61884.0	82664.6	113464.2	145147.0	171195.6	191815.8
0°	16069.4	21121.0	27253.5	36653.4	48468.0	63823.7	84874.0	116498.5	148546.0	173912.7	194930.0
-2.5°	15959.8	20933.0	26976.9	35915.9	48169.7	64174.6	86711.1	118079.9	149131.5	174839.5	194647.1
-5°	15729.1	20636.7	26597.2	35009.6	47101.3	63292.4	84716.4	113555.9	143544.8	169915.4	189171.5
-7.5°	15299.3	20140.6	25839.7	33683.9	45330.7	60663.0	79996.1	105056.5	133825.9	160247.2	178888.8
-10°	14667.1	19374.2	24752.8	31887.0	42346.8	56429.1	72865.7	92436.2	119348.6	144051.2	164764.3
-12.5°	13768.4	18290.1	23244.9	29375.5	38742.7	51153.1	65323.0	81583.6	100818.3	124642.1	144057.5
-15°	12624.8	16877.3	21481.5	27265.9	35098.3	45266.9	57213.9	69828.3	84571.1	101016.2	119941.1
-17.5°	11221.4	15216.0	19503.6	24490.3	30824.7	39356.2	48806.7	58649.6	69291.2	81393.2	92511.6
-20°	9548.0	13201.7	17242.3	21880.6	27308.3	33470.7	40340.6	48297.9	56546.4	65183.9	72826.1



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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°	7848.6	11181.8	15032.0	19087.7	23805.3	28509.1	33123.3	39039.8	45409.7	51662.9	57351.2
-25°	6141.1	9083.6	12663.5	16467.5	20254.0	24096.2	27842.6	31516.5	36100.3	40125.2	44300.3
-27.5°	4877.7	7078.9	10085.0	13404.7	16704.1	19910.1	23149.2	26218.0	29108.8	31539.5	34354.3
-30°	3836.1	5321.9	7644.1	10256.3	13143.3	15968.1	18759.3	21351.7	23628.1	25629.5	27584.1
-32.5°	3468.3	4075.0	5455.0	7440.1	9717.7	12195.9	14529.0	16755.7	18632.4	20492.3	22243.7
-35°	3208.3	3542.4	3993.6	5233.6	6716.9	8689.0	10517.9	12365.9	13942.0	15799.5	17235.8
-37.5°	2995.3	3252.6	3537.8	3830.3	4732.2	5719.7	7036.4	8421.6	9639.3	11197.5	12465.6
-40°	2789.0	3016.8	3239.7	3462.1	3701.9	3922.3	4706.1	5420.4	6246.3	7312.3	8224.3
-42.5°	2589.5	2790.1	2983.2	3163.9	3331.5	3476.2	3633.9	3785.1	4231.1	4774.4	5191.6
-45°	2410.5	2581.0	2742.7	2895.5	3023.1	3139.0	3260.5	3387.0	3552.8	3703.5	3828.0
-47.5°	2258.3	2393.1	2525.6	2650.1	2748.1	2847.0	2943.7	3052.9	3182.0	3308.5	3414.4
-50°	2120.7	2237.3	2337.8	2426.0	2507.6	2591.2	2668.2	2765.2	2869.1	2973.8	3061.3
-52.5°	1988.8	2092.6	2176.5	2243.7	2305.8	2374.0	2440.3	2517.7	2602.0	2690.1	2759.6
-55°	1767.2	1899.1	2021.0	2084.1	2132.8	2189.1	2245.2	2307.8	2379.1	2453.0	2508.2
-57.5°	1522.3	1652.5	1767.4	1849.2	1930.0	2012.5	2074.3	2123.4	2187.7	2250.8	2298.5
-60°	1276.3	1385.5	1487.0	1569.7	1653.9	1736.5	1806.0	1870.0	1949.7	2022.1	2081.0
-62.5°	1047.4	1142.9	1221.2	1288.2	1360.0	1431.8	1498.0	1561.0	1633.4	1698.4	1753.6
-65°	839.3	919.4	977.3	1029.9	1087.0	1146.5	1199.0	1251.3	1309.4	1361.5	1406.7
-67.5°	678.7	731.8	767.9	801.4	846.8	893.0	934.1	975.7	1020.1	1059.6	1093.8
-70°	555.6	588.7	611.0	636.7	669.0	698.5	725.5	755.9	788.7	818.9	846.2
-72.5°	460.6	483.3	500.0	520.5	541.0	559.8	576.8	598.7	622.5	645.8	668.0
-75°	385.9	400.6	416.5	431.3	445.4	459.0	471.6	489.2	507.5	525.0	541.8
-77.5°	346.2	357.2	366.1	374.3	382.0	390.8	399.5	414.3	430.4	443.9	456.6
-80°	315.5	324.0	331.4	337.7	343.5	350.7	357.9	370.1	382.7	394.0	405.1
-82.5°	287.9	295.2	302.0	307.8	313.3	319.5	325.7	336.3	347.1	356.8	366.3
-85°	262.1	268.5	274.6	279.7	284.8	290.5	296.1	305.3	314.6	323.3	331.8
-87.5°	239.0	244.7	250.3	254.2	257.9	263.4	268.9	277.2	285.4	293.0	300.6
-90°	3.4	3.4	3.4	2.9	2.3	2.3	2.3	2.3	2.3	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°	280.5	283.9	284.5	285.0	284.5	283.9	280.5	277.0	270.8	264.5	257.1
87.5°	1.7	1.1	1.7	2.3	1.7	1.1	1.7	2.3	2.3	2.3	2.8
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.9
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	4.1
77.5°	2.9	2.3	2.8	3.4	2.8	2.3	2.9	3.4	3.4	3.5	4.1
75°	5.1	4.6	4.0	3.4	4.0	4.6	5.1	5.6	5.9	6.2	6.6
72.5°	15.3	15.7	16.4	17.1	16.4	15.7	15.3	14.8	13.7	12.9	12.4
70°	18.3	17.2	17.1	17.1	17.1	17.2	18.3	19.0	18.6	18.2	18.1
67.5°	32.7	34.5	35.1	35.3	35.1	34.5	32.7	30.5	27.5	25.5	24.4
65°	31.8	33.0	33.1	33.1	33.1	33.0	31.8	30.6	29.2	28.0	27.1
62.5°	21.3	21.9	22.3	22.8	22.3	21.9	21.3	20.9	20.8	21.1	21.7
60°	11.9	12.6	13.1	13.7	13.1	12.6	11.9	11.4	11.1	11.3	12.0
57.5°	5.6	5.9	6.2	6.8	6.2	5.9	5.6	5.7	5.8	6.0	6.0
55°	11.4	12.1	12.4	12.5	12.4	12.1	11.4	11.0	10.4	10.4	11.0
52.5°	54.0	51.5	49.4	47.9	49.4	51.5	54.0	55.0	53.0	48.7	43.3
50°	208.9	203.8	198.1	192.7	198.1	203.8	208.9	204.5	193.9	176.7	156.9
47.5°	466.1	462.0	453.4	442.3	453.4	462.0	466.1	456.9	441.3	418.1	400.8
45°	787.8	810.6	820.8	815.2	820.8	810.6	787.8	754.2	729.8	709.1	690.2
42.5°	1279.1	1299.2	1301.0	1271.2	1301.0	1299.2	1279.1	1248.0	1156.6	1041.7	961.1
40°	2531.1	2706.5	2766.7	2585.7	2766.7	2706.5	2531.1	2320.7	2029.8	1701.6	1481.8
37.5°	4486.1	5175.2	5750.1	5772.2	5750.1	5175.2	4486.1	3908.5	3429.3	2954.7	2531.5
35°	7270.5	7979.4	8322.2	8307.7	8322.2	7979.4	7270.5	6227.2	5256.4	4593.8	3978.1
32.5°	10218.8	10755.9	11099.2	11016.5	11099.2	10755.9	10218.8	9153.4	7670.8	6453.3	5684.3
30°	13491.9	13990.3	14390.4	14384.3	14390.4	13990.3	13491.9	12591.0	11329.7	9802.2	8076.7
27.5°	18643.3	19670.3	20486.5	20348.1	20486.5	19670.3	18643.3	17083.6	15167.5	13518.2	11661.6
25°	26607.2	28485.7	29813.8	29540.5	29813.8	28485.7	26607.2	24258.9	21475.0	18993.3	16171.7
22.5°	38372.0	40781.8	41789.4	40990.2	41789.4	40781.8	38372.0	35496.3	31622.9	27268.9	23349.2
20°	56791.4	61259.1	64036.6	62380.3	64036.6	61259.1	56791.4	51280.9	45496.7	38637.2	32597.1
17.5°	85247.3	94939.6	102597.7	102386.7	102597.7	94939.6	85247.3	72987.6	63515.4	53272.3	43932.1
15°	119539.5	130571.3	139065.7	140047.9	139065.7	130571.3	119539.5	103601.2	85294.8	70237.1	56577.8
12.5°	150244.6	161464.0	169776.5	172168.4	169776.5	161464.0	150244.6	131873.5	110605.0	87893.7	69167.4
10°	172128.0	183324.2	191370.0	194207.2	191370.0	183324.2	172128.0	155988.5	132648.3	106338.1	81112.7
7.5°	188181.5	200328.3	206359.4	209442.0	206359.4	200328.3	188181.5	171612.8	150208.8	123223.3	95468.8
5°	199732.9	211021.9	216856.5	220591.9	216856.5	211021.9	199732.9	183330.6	163221.6	136791.1	106588.2
2.5°	207014.8	217672.5	224679.2	228029.8	224679.2	217672.5	207014.8	191815.8	171195.6	145147.0	113464.2
0°	209365.1	219596.6	227450.0	230453.6	227450.0	219596.6	209365.1	194930.0	173912.7	148546.0	116498.5
-2.5°	208271.8	218294.6	224558.2	225772.4	224558.2	218294.6	208271.8	194647.1	174839.5	149131.5	118079.9
-5°	202582.8	211820.4	217604.2	218554.6	217604.2	211820.4	202582.8	189171.5	169915.4	143544.8	113555.9
-7.5°	192775.0	201989.9	206770.6	208178.2	206770.6	201989.9	192775.0	178888.8	160247.2	133825.9	105056.5
-10°	178554.6	187457.2	192566.6	193778.5	192566.6	187457.2	178554.6	164764.3	144051.2	119348.6	92436.2
-12.5°	159150.5	168647.8	174366.4	175626.3	174366.4	168647.8	159150.5	144057.5	124642.1	100818.3	81583.6
-15°	133989.2	143758.4	151058.6	152824.7	151058.6	143758.4	133989.2	119941.1	101016.2	84571.1	69828.3
-17.5°	104985.7	114761.7	121321.7	122574.0	121321.7	114761.7	104985.7	92511.6	81393.2	69291.2	58649.6
-20°	80006.1	86293.4	89995.7	90640.5	89995.7	86293.4	80006.1	72826.1	65183.9	56546.4	48297.9



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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°	61999.8	66225.6	68479.7	68797.8	68479.7	66225.6	61999.8	57351.2	51662.9	45409.7	39039.8
-25°	48043.9	51114.3	52793.2	53072.8	52793.2	51114.3	48043.9	44300.3	40125.2	36100.3	31516.5
-27.5°	36889.5	38796.8	40359.0	40033.7	40359.0	38796.8	36889.5	34354.3	31539.5	29108.8	26218.0
-30°	29190.1	30413.4	31336.2	31094.4	31336.2	30413.4	29190.1	27584.1	25629.5	23628.1	21351.7
-32.5°	23625.5	24583.9	25232.6	25405.4	25232.6	24583.9	23625.5	22243.7	20492.3	18632.4	16755.7
-35°	18362.9	19146.0	19595.5	19770.0	19595.5	19146.0	18362.9	17235.8	15799.5	13942.0	12365.9
-37.5°	13406.8	14093.7	14522.5	14671.6	14522.5	14093.7	13406.8	12465.6	11197.5	9639.3	8421.6
-40°	8922.6	9451.8	9803.2	9939.2	9803.2	9451.8	8922.6	8224.3	7312.3	6246.3	5420.4
-42.5°	5516.7	5764.5	5921.4	5970.6	5921.4	5764.5	5516.7	5191.6	4774.4	4231.1	3785.1
-45°	3924.1	3992.6	4031.8	4039.3	4031.8	3992.6	3924.1	3828.0	3703.5	3552.8	3387.0
-47.5°	3497.1	3551.1	3578.6	3579.8	3578.6	3551.1	3497.1	3414.4	3308.5	3182.0	3052.9
-50°	3133.6	3183.5	3208.8	3210.5	3208.8	3183.5	3133.6	3061.3	2973.8	2869.1	2765.2
-52.5°	2816.6	2856.4	2874.9	2875.3	2874.9	2856.4	2816.6	2759.6	2690.1	2602.0	2517.7
-55°	2553.5	2584.4	2595.9	2593.7	2595.9	2584.4	2553.5	2508.2	2453.0	2379.1	2307.8
-57.5°	2338.1	2368.4	2378.0	2374.8	2378.0	2368.4	2338.1	2298.5	2250.8	2187.7	2123.4
-60°	2127.0	2159.4	2171.7	2170.7	2171.7	2159.4	2127.0	2081.0	2022.1	1949.7	1870.0
-62.5°	1793.1	1818.0	1831.4	1835.5	1831.4	1818.0	1793.1	1753.6	1698.4	1633.4	1561.0
-65°	1437.8	1457.7	1468.4	1471.8	1468.4	1457.7	1437.8	1406.7	1361.5	1309.4	1251.3
-67.5°	1116.1	1130.4	1137.2	1138.9	1137.2	1130.4	1116.1	1093.8	1059.6	1020.1	975.7
-70°	863.2	874.9	880.3	882.4	880.3	874.9	863.2	846.2	818.9	788.7	755.9
-72.5°	680.8	690.1	693.9	695.4	693.9	690.1	680.8	668.0	645.8	622.5	598.7
-75°	549.7	555.3	557.5	558.6	557.5	555.3	549.7	541.8	525.0	507.5	489.2
-77.5°	463.6	469.6	471.7	473.1	471.7	469.6	463.6	456.6	443.9	430.4	414.3
-80°	410.1	414.3	416.0	417.3	416.0	414.3	410.1	405.1	394.0	382.7	370.1
-82.5°	372.3	378.0	378.4	378.5	378.4	378.0	372.3	366.3	356.8	347.1	336.3
-85°	336.3	340.6	341.4	342.0	341.4	340.6	336.3	331.8	323.3	314.6	305.3
-87.5°	304.8	308.9	309.0	309.0	309.0	308.9	304.8	300.6	293.0	285.4	277.2
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	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°	249.7	244.6	239.4	236.0	232.6	227.5	222.3	214.9	207.5	200.1	192.7
87.5°	3.3	3.3	3.3	3.3	3.4	3.9	4.4	4.5	4.6	4.6	4.6
85°	3.4	3.9	4.4	4.3	4.3	4.4	4.6	4.9	5.2	5.1	5.1
82.5°	4.4	4.5	4.6	4.6	4.6	4.9	5.1	5.4	5.7	5.8	5.9
80°	4.6	4.6	4.6	4.9	5.2	5.4	5.7	5.8	5.9	6.3	6.6
77.5°	4.6	4.6	4.7	5.3	5.7	5.8	5.9	6.4	6.6	6.7	6.8
75°	6.7	6.4	6.2	6.4	6.5	6.6	6.7	6.7	6.9	7.1	7.1
72.5°	12.1	11.8	11.3	10.7	10.1	10.3	10.2	9.6	9.1	8.5	7.9
70°	18.3	18.9	19.5	19.6	19.6	19.6	18.1	16.1	14.2	13.4	11.6
67.5°	24.3	25.0	26.7	29.3	29.0	28.5	27.4	25.7	23.0	20.5	16.8
65°	27.7	29.0	29.1	28.9	30.9	32.8	34.9	34.1	34.0	30.4	23.9
62.5°	23.7	26.2	25.3	24.8	27.5	33.0	41.6	45.4	47.5	44.2	36.1
60°	14.0	15.7	16.7	18.6	21.9	31.1	44.7	54.4	62.8	57.2	47.8
57.5°	6.8	8.1	10.5	13.8	17.4	29.6	45.1	58.5	68.0	64.4	58.3
55°	11.3	13.0	14.2	15.5	17.0	29.9	43.7	57.5	67.8	66.6	61.5
52.5°	35.1	40.8	40.6	33.3	34.3	41.9	45.2	59.6	69.1	70.3	66.2
50°	145.4	151.1	131.4	108.5	108.6	85.9	89.4	85.8	83.1	85.3	77.0
47.5°	387.1	367.8	324.3	289.9	259.4	225.5	209.0	169.4	161.2	124.3	117.9
45°	661.7	632.0	581.1	523.5	474.2	430.1	389.4	357.3	296.2	263.7	186.0
42.5°	919.8	872.9	813.4	751.1	692.2	626.7	578.1	540.6	499.1	436.6	368.4
40°	1305.3	1098.3	1023.0	949.7	871.0	795.1	739.8	683.0	653.6	604.5	538.5
37.5°	2043.1	1590.9	1366.7	1145.3	1048.9	964.2	900.3	842.0	785.8	742.6	680.5
35°	3252.6	2604.2	2006.6	1596.7	1272.3	1159.0	1075.2	1008.5	939.1	869.5	810.8
32.5°	4772.4	3968.1	3119.1	2384.1	1794.6	1428.2	1281.6	1186.9	1098.0	1012.3	928.2
30°	6599.8	5591.3	4516.7	3524.8	2711.0	2007.6	1547.8	1388.4	1268.3	1160.3	1049.9
27.5°	9750.0	7635.6	6333.5	5091.4	4060.1	3077.9	2189.8	1612.7	1453.2	1320.9	1189.9
25°	14066.5	11675.6	9322.2	7634.4	6251.8	4573.2	3148.5	2177.6	1676.0	1490.1	1334.1
22.5°	19470.1	16253.4	13305.9	10714.0	8695.3	6533.2	4504.5	2803.1	1916.0	1669.0	1485.4
20°	26301.8	21043.5	17358.3	14038.8	11132.8	8394.8	5828.1	3752.3	2443.7	1860.1	1632.6
17.5°	35324.2	27563.0	21893.3	17625.5	13931.6	10693.4	7590.6	4941.0	2937.8	2054.6	1777.3
15°	44859.6	34958.3	27252.7	21216.0	16488.3	12725.6	9382.9	6131.9	3627.4	2399.0	1938.7
12.5°	55061.5	43065.0	32760.2	24864.8	18906.8	14506.9	10851.8	7430.9	4558.0	2803.6	2075.9
10°	63648.7	50020.8	38387.6	29100.7	22049.3	16489.6	12106.7	8459.4	5301.7	3156.9	2196.7
7.5°	72663.2	55881.8	42677.1	32117.8	24472.5	18584.4	13399.5	9223.3	5871.9	3420.1	2289.6
5°	78810.8	59770.5	45588.6	34169.7	26001.4	20012.9	14618.8	9753.5	6233.4	3599.7	2367.5
2.5°	82664.6	61884.0	47162.6	35697.7	26806.7	20731.3	15573.9	10424.4	6538.9	3760.0	2445.4
0°	84874.0	63823.7	48468.0	36653.4	27253.5	21121.0	16069.4	11202.4	6744.7	3867.1	2508.2
-2.5°	86711.1	64174.6	48169.7	35915.9	26976.9	20933.0	15959.8	11498.7	7189.4	3975.7	2575.2
-5°	84716.4	63292.4	47101.3	35009.6	26597.2	20636.7	15729.1	11412.4	7311.8	4022.4	2622.7
-7.5°	79996.1	60663.0	45330.7	33683.9	25839.7	20140.6	15299.3	10923.3	7010.3	4043.5	2686.3
-10°	72865.7	56429.1	42346.8	31887.0	24752.8	19374.2	14667.1	10360.7	6603.4	3956.7	2727.3
-12.5°	65323.0	51153.1	38742.7	29375.5	23244.9	18290.1	13768.4	9587.3	6044.4	3758.8	2758.1
-15°	57213.9	45266.9	35098.3	27265.9	21481.5	16877.3	12624.8	8599.9	5322.0	3473.1	2763.4
-17.5°	48806.7	39356.2	30824.7	24490.3	19503.6	15216.0	11221.4	7606.5	4797.0	3259.6	2748.2
-20°	40340.6	33470.7	27308.3	21880.6	17242.3	13201.7	9548.0	6401.7	4260.3	3207.6	2741.7



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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°	33123.3	28509.1	23805.3	19087.7	15032.0	11181.8	7848.6	5202.4	3612.9	3094.6	2701.1
-25°	27842.6	24096.2	20254.0	16467.5	12663.5	9083.6	6141.1	4346.7	3395.4	2990.1	2626.7
-27.5°	23149.2	19910.1	16704.1	13404.7	10085.0	7078.9	4877.7	3583.1	3177.9	2850.5	2551.3
-30°	18759.3	15968.1	13143.3	10256.3	7644.1	5321.9	3836.1	3339.1	2995.9	2701.2	2433.0
-32.5°	14529.0	12195.9	9717.7	7440.1	5455.0	4075.0	3468.3	3104.6	2820.8	2560.9	2321.6
-35°	10517.9	8689.0	6716.9	5233.6	3993.6	3542.4	3208.3	2921.2	2657.5	2420.1	2208.1
-37.5°	7036.4	5719.7	4732.2	3830.3	3537.8	3252.6	2995.3	2741.5	2496.3	2293.0	2106.3
-40°	4706.1	3922.3	3701.9	3462.1	3239.7	3016.8	2789.0	2559.8	2359.6	2173.6	2009.5
-42.5°	3633.9	3476.2	3331.5	3163.9	2983.2	2790.1	2589.5	2401.8	2226.3	2068.4	1921.6
-45°	3260.5	3139.0	3023.1	2895.5	2742.7	2581.0	2410.5	2254.4	2104.8	1968.1	1834.2
-47.5°	2943.7	2847.0	2748.1	2650.1	2525.6	2393.1	2258.3	2120.6	1994.8	1861.8	1671.5
-50°	2668.2	2591.2	2507.6	2426.0	2337.8	2237.3	2120.7	2003.2	1859.7	1679.6	1501.2
-52.5°	2440.3	2374.0	2305.8	2243.7	2176.5	2092.6	1988.8	1828.2	1662.7	1490.8	1323.3
-55°	2245.2	2189.1	2132.8	2084.1	2021.0	1899.1	1767.2	1612.4	1451.2	1292.7	1148.8
-57.5°	2074.3	2012.5	1930.0	1849.2	1767.4	1652.5	1522.3	1377.1	1239.0	1106.3	975.9
-60°	1806.0	1736.5	1653.9	1569.7	1487.0	1385.5	1276.3	1158.7	1036.0	926.8	818.5
-62.5°	1498.0	1431.8	1360.0	1288.2	1221.2	1142.9	1047.4	953.3	853.9	757.2	679.0
-65°	1199.0	1146.5	1087.0	1029.9	977.3	919.4	839.3	767.7	697.1	624.9	556.9
-67.5°	934.1	893.0	846.8	801.4	767.9	731.8	678.7	620.4	568.9	522.2	478.8
-70°	725.5	698.5	669.0	636.7	611.0	588.7	555.6	516.7	476.3	440.0	406.6
-72.5°	576.8	559.8	541.0	520.5	500.0	483.3	460.6	432.0	402.1	370.1	343.8
-75°	471.6	459.0	445.4	431.3	416.5	400.6	385.9	368.8	350.5	330.9	312.7
-77.5°	399.5	390.8	382.0	374.3	366.1	357.2	346.2	331.1	316.7	301.5	287.3
-80°	357.9	350.7	343.5	337.7	331.4	324.0	315.5	302.9	290.1	277.0	264.8
-82.5°	325.7	319.5	313.3	307.8	302.0	295.2	287.9	277.1	266.3	254.8	243.6
-85°	296.1	290.5	284.8	279.7	274.6	268.5	262.1	252.8	243.4	233.1	222.9
-87.5°	268.9	263.4	257.9	254.2	250.3	244.7	239.0	231.1	223.1	214.3	205.5
-90°	2.3	2.3	2.3	2.9	3.4	3.4	3.4	4.0	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°	185.9	179.0	172.2	165.3	159.6	153.9	147.7	141.4	132.9	124.3	111.2
87.5°	5.0	5.3	5.8	6.3	6.3	6.3	6.8	7.3	7.3	7.2	7.7
85°	5.6	6.0	6.4	6.8	6.8	6.8	7.3	7.8	7.7	7.6	8.1
82.5°	6.3	6.7	6.7	6.8	7.2	7.4	7.9	8.3	8.3	8.1	8.5
80°	6.7	6.9	7.1	7.2	7.6	8.1	8.4	8.8	8.9	8.9	9.1
77.5°	6.8	7.0	7.6	7.8	7.9	8.1	8.7	9.2	9.6	9.7	9.8
75°	6.8	7.0	7.6	8.1	8.1	8.2	8.7	9.4	10.1	10.5	10.5
72.5°	7.6	7.7	8.0	8.3	8.6	8.9	9.2	9.6	10.4	11.0	11.2
70°	9.7	8.7	8.7	9.2	9.4	9.7	10.2	10.5	10.8	11.5	11.8
67.5°	12.6	11.3	10.4	10.3	10.6	10.9	11.2	11.5	11.8	12.1	12.4
65°	19.7	16.0	12.5	12.4	12.2	12.2	12.4	13.0	12.8	13.5	13.1
62.5°	28.6	22.8	19.2	15.9	14.9	15.7	13.9	15.4	14.3	15.0	14.6
60°	38.7	30.8	26.7	23.5	21.0	20.6	19.7	18.4	18.0	16.8	16.6
57.5°	47.3	37.9	35.5	31.9	30.5	28.3	27.2	24.9	22.4	20.9	18.8
55°	53.9	46.1	45.1	42.0	41.4	38.2	36.4	33.4	28.3	26.0	21.2
52.5°	57.8	56.7	55.7	55.6	54.9	50.3	48.3	42.6	38.2	31.4	26.3
50°	67.4	71.2	69.8	73.1	70.6	68.1	61.1	55.2	48.8	38.4	31.8
47.5°	99.5	102.3	94.6	97.0	92.3	88.7	79.9	69.5	60.1	48.9	37.6
45°	183.6	153.9	144.8	133.8	123.0	118.2	102.5	84.7	74.1	60.0	43.6
42.5°	300.5	259.2	231.1	178.1	174.1	154.2	129.7	109.2	88.7	71.5	52.0
40°	459.6	404.6	343.9	287.7	238.0	195.5	170.1	137.6	104.1	84.2	62.4
37.5°	612.3	549.8	487.9	412.0	322.3	264.3	216.1	168.3	124.1	98.8	72.9
35°	738.5	677.5	619.3	537.8	444.5	336.8	266.5	205.6	152.6	114.1	83.7
32.5°	852.1	781.7	712.8	646.6	545.8	410.8	327.7	248.1	181.7	129.9	94.4
30°	960.8	875.2	794.9	730.8	626.1	494.1	388.3	288.6	211.4	146.2	105.4
27.5°	1073.6	969.1	874.1	799.4	691.2	565.6	435.9	327.0	241.6	164.2	117.4
25°	1194.5	1071.7	966.4	871.5	756.8	618.8	478.4	363.5	273.0	184.8	128.9
22.5°	1322.5	1174.4	1055.4	948.7	829.2	670.6	520.0	400.9	297.3	204.1	139.8
20°	1443.6	1270.1	1136.7	1013.0	898.6	729.3	562.6	431.1	320.1	222.1	150.1
17.5°	1564.1	1362.4	1199.6	1069.3	957.7	789.9	606.3	459.3	341.2	238.6	159.7
15°	1677.6	1452.3	1262.9	1119.2	1005.0	847.0	649.1	485.9	360.5	253.6	169.4
12.5°	1782.8	1537.0	1325.3	1162.1	1040.2	898.3	689.9	510.6	378.0	268.7	179.2
10°	1877.1	1616.6	1386.3	1203.0	1070.8	943.7	728.3	537.7	400.6	283.6	188.4
7.5°	1954.8	1689.4	1442.5	1241.9	1098.4	982.6	769.9	572.4	423.0	297.1	196.9
5°	2021.3	1755.1	1498.4	1287.4	1130.4	1014.2	807.6	605.2	443.7	309.1	204.6
2.5°	2081.5	1812.7	1550.8	1330.6	1160.1	1039.4	840.5	635.4	462.4	319.6	211.6
0°	2130.8	1860.6	1596.1	1369.2	1186.8	1059.1	868.7	662.4	478.8	328.3	217.8
-2.5°	2175.3	1894.6	1633.5	1409.6	1231.3	1088.5	885.9	676.0	492.3	339.8	225.3
-5°	2207.9	1919.4	1663.8	1445.1	1271.2	1112.2	898.2	685.8	503.0	349.4	231.8
-7.5°	2259.4	1948.2	1690.9	1476.1	1305.4	1129.5	905.5	692.0	510.9	356.9	237.3
-10°	2299.5	1974.7	1715.9	1501.7	1327.8	1143.9	909.3	694.7	515.9	362.1	241.8
-12.5°	2330.7	1993.8	1732.6	1520.6	1345.6	1156.3	919.0	697.8	517.7	364.8	245.1
-15°	2354.3	2021.8	1750.0	1533.7	1360.5	1162.6	921.6	697.7	515.4	364.4	247.3
-17.5°	2361.8	2032.5	1758.7	1543.9	1370.9	1163.0	916.4	691.8	509.7	360.8	248.7
-20°	2365.6	2036.8	1755.4	1544.8	1374.1	1149.4	903.1	679.9	500.5	355.1	249.4



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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°	2354.6	2038.7	1766.9	1543.2	1363.0	1127.9	881.4	662.2	487.7	347.2	249.1
-25°	2308.6	2029.2	1769.1	1548.7	1334.1	1097.4	858.2	643.6	471.3	337.2	247.6
-27.5°	2253.2	1993.6	1758.3	1541.8	1304.4	1061.8	833.1	627.8	457.2	325.0	245.1
-30°	2191.9	1952.7	1732.7	1516.8	1264.7	1023.1	802.7	607.1	444.2	317.7	241.5
-32.5°	2105.1	1905.0	1699.0	1464.5	1215.5	977.5	766.3	581.1	427.8	313.4	238.4
-35°	2020.8	1847.0	1657.8	1400.9	1157.7	931.4	726.8	549.9	407.8	307.4	234.8
-37.5°	1931.6	1775.0	1576.9	1327.1	1090.0	878.2	686.7	520.0	384.5	299.7	230.0
-40°	1851.1	1679.0	1464.9	1243.4	1019.4	816.9	641.2	490.8	369.5	290.2	224.0
-42.5°	1765.9	1550.4	1346.2	1145.1	942.1	757.2	592.2	458.2	357.1	281.0	216.7
-45°	1626.1	1418.1	1220.3	1039.1	858.5	691.3	551.3	425.0	342.5	271.1	210.5
-47.5°	1478.5	1281.5	1095.1	927.8	777.3	624.5	503.8	405.7	325.6	259.7	206.7
-50°	1324.8	1144.2	972.1	823.1	684.6	567.8	458.6	383.6	310.5	246.7	202.4
-52.5°	1166.1	1007.8	855.7	717.9	608.5	507.2	427.5	358.2	293.5	238.1	197.3
-55°	1007.9	876.3	740.8	627.3	534.4	462.1	393.9	333.9	274.8	231.0	192.0
-57.5°	860.2	744.7	641.2	545.7	475.1	418.5	361.9	307.8	262.8	222.9	188.9
-60°	717.7	634.1	546.8	481.1	424.7	376.6	330.2	284.6	252.2	214.8	185.0
-62.5°	600.9	531.9	480.4	425.4	377.8	337.7	299.9	269.8	240.0	209.1	180.4
-65°	509.1	464.3	418.7	375.9	334.6	303.1	282.1	254.5	230.1	202.7	175.3
-67.5°	436.7	400.7	365.2	327.7	302.2	282.5	263.1	242.3	220.7	195.8	169.5
-70°	373.1	341.0	319.5	299.9	279.9	262.5	248.9	231.3	211.0	188.4	163.4
-72.5°	325.7	308.8	292.4	275.3	261.2	248.1	235.5	220.0	201.1	180.7	156.8
-75°	296.5	283.2	270.7	257.9	245.5	233.6	222.0	208.2	190.9	172.5	150.1
-77.5°	275.7	264.2	252.2	240.6	229.9	219.0	208.2	196.1	180.4	163.9	143.1
-80°	255.0	244.9	234.4	224.2	214.3	204.2	194.6	184.0	169.7	155.0	135.7
-82.5°	234.4	225.3	216.6	207.7	199.0	190.4	181.3	171.7	158.8	145.7	128.8
-85°	215.1	207.3	199.3	191.1	183.8	176.4	168.5	160.3	149.5	138.7	123.1
-87.5°	198.9	192.1	184.9	177.7	171.5	165.2	158.1	151.0	141.3	131.6	117.2
-90°	4.6	4.6	5.2	5.7	5.7	5.7	6.3	6.8	6.8	6.8	7.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	98.0	81.5	65.0	46.7	28.5	19.4	10.3
87.5°	8.3	8.4	8.4	8.3	8.2	9.3	10.3
85°	8.6	8.7	8.8	8.6	8.4	9.6	10.3
82.5°	8.9	9.1	9.2	8.9	8.6	9.8	10.3
80°	9.2	9.5	9.6	9.2	8.9	10.0	10.3
77.5°	9.8	9.9	10.0	9.5	9.1	10.2	10.3
75°	10.4	10.4	10.4	9.8	9.3	10.4	10.3
72.5°	11.1	10.9	10.8	10.1	9.6	10.6	10.3
70°	11.7	11.4	11.2	10.4	9.9	10.8	10.3
67.5°	12.5	11.9	11.6	10.8	10.2	11.0	10.3
65°	13.3	12.7	12.1	11.3	10.5	11.3	10.3
62.5°	14.3	13.7	12.6	11.7	10.8	11.5	10.3
60°	15.3	14.8	13.1	12.2	11.2	11.7	10.3
57.5°	17.5	15.9	14.3	12.7	11.8	12.0	10.3
55°	19.9	17.1	15.5	13.1	12.5	12.2	10.3
52.5°	22.4	18.6	16.9	13.6	13.2	12.4	10.3
50°	25.0	21.1	18.3	14.1	13.9	12.7	10.3
47.5°	28.1	23.8	19.7	14.8	14.7	12.9	10.3
45°	33.3	26.7	21.2	16.0	15.5	13.2	10.3
42.5°	38.6	29.6	22.8	17.1	16.4	13.4	10.3
40°	44.2	32.7	24.8	18.8	17.3	13.7	10.3
37.5°	50.0	35.8	27.2	20.8	18.2	13.9	10.3
35°	55.9	40.1	29.6	22.8	19.2	14.2	10.3
32.5°	62.6	44.7	32.1	24.9	20.2	14.4	10.3
30°	71.3	49.3	34.5	27.0	21.2	14.6	10.3
27.5°	79.8	53.8	37.9	29.0	22.2	14.9	10.3
25°	88.0	58.2	41.2	31.1	23.3	15.1	10.3
22.5°	95.9	62.8	44.5	33.2	24.3	15.3	10.3
20°	103.5	68.0	47.7	35.2	25.4	15.6	10.3
17.5°	111.3	73.1	50.8	37.3	26.4	15.8	10.3
15°	119.1	78.0	53.9	39.3	27.5	16.0	10.3
12.5°	126.5	82.7	56.8	41.3	28.5	16.2	10.3
10°	133.3	87.2	59.6	43.2	29.5	16.4	10.3
7.5°	139.6	91.4	62.2	45.1	30.5	16.6	10.3
5°	145.3	95.4	64.8	46.9	31.4	16.8	10.3
2.5°	150.5	99.2	67.2	48.6	32.3	16.9	10.3
0°	155.1	102.6	69.5	50.2	33.1	17.1	10.3
-2.5°	160.4	106.7	72.7	52.3	34.4	17.7	10.3
-5°	165.1	110.5	75.8	54.3	35.6	18.3	10.3
-7.5°	169.1	114.0	78.7	56.2	36.7	18.9	10.3
-10°	172.5	117.1	81.4	58.0	37.8	19.5	10.3
-12.5°	175.1	119.9	83.9	59.7	38.8	20.0	10.3
-15°	177.0	122.2	86.2	61.2	39.7	20.5	10.3
-17.5°	178.1	124.2	88.2	62.6	40.5	21.0	10.3
-20°	179.0	125.8	90.0	63.8	41.3	21.5	10.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	179.9	127.0	91.6	64.9	41.9	21.9	10.3
-25°	179.9	128.5	92.8	65.8	42.5	22.3	10.3
-27.5°	179.2	129.9	93.8	66.5	43.1	22.6	10.3
-30°	177.6	130.8	94.6	67.1	43.5	23.0	10.3
-32.5°	175.2	131.2	95.8	67.5	43.8	23.3	10.3
-35°	174.3	131.2	96.8	67.8	44.1	23.5	10.3
-37.5°	173.8	131.2	97.5	67.9	44.2	23.7	10.3
-40°	172.7	131.7	98.0	67.8	44.3	23.9	10.3
-42.5°	170.8	132.0	98.3	67.7	44.3	24.0	10.3
-45°	168.2	131.8	98.5	67.8	44.2	24.1	10.3
-47.5°	165.1	131.3	98.4	67.8	44.0	24.2	10.3
-50°	163.4	130.5	98.0	67.8	43.7	24.2	10.3
-52.5°	161.7	129.3	97.3	67.7	43.4	24.1	10.3
-55°	159.5	127.7	96.4	67.4	42.9	24.1	10.3
-57.5°	157.0	125.8	95.1	66.9	42.4	24.0	10.3
-60°	154.0	123.5	93.6	66.3	41.8	23.8	10.3
-62.5°	150.6	120.9	92.4	65.5	41.2	23.6	10.3
-65°	146.7	117.9	90.8	64.5	40.4	23.4	10.3
-67.5°	142.4	114.9	89.1	63.3	39.6	23.1	10.3
-70°	137.7	111.8	87.1	62.0	38.7	22.8	10.3
-72.5°	133.0	108.4	84.9	60.5	37.6	22.5	10.3
-75°	127.9	104.7	82.4	58.9	36.5	22.1	10.3
-77.5°	122.5	100.7	79.9	57.2	35.4	21.7	10.3
-80°	116.8	97.0	77.3	55.4	34.1	21.3	10.3
-82.5°	112.2	93.4	74.4	53.4	32.8	20.9	10.3
-85°	107.7	89.6	71.5	51.3	31.4	20.4	10.3
-87.5°	102.9	85.6	68.3	49.1	30.0	19.9	10.3
-90°	8.0	8.0	8.0	8.0	8.0	9.2	10.3

(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

