

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: P701342 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-1S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701342 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-1S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

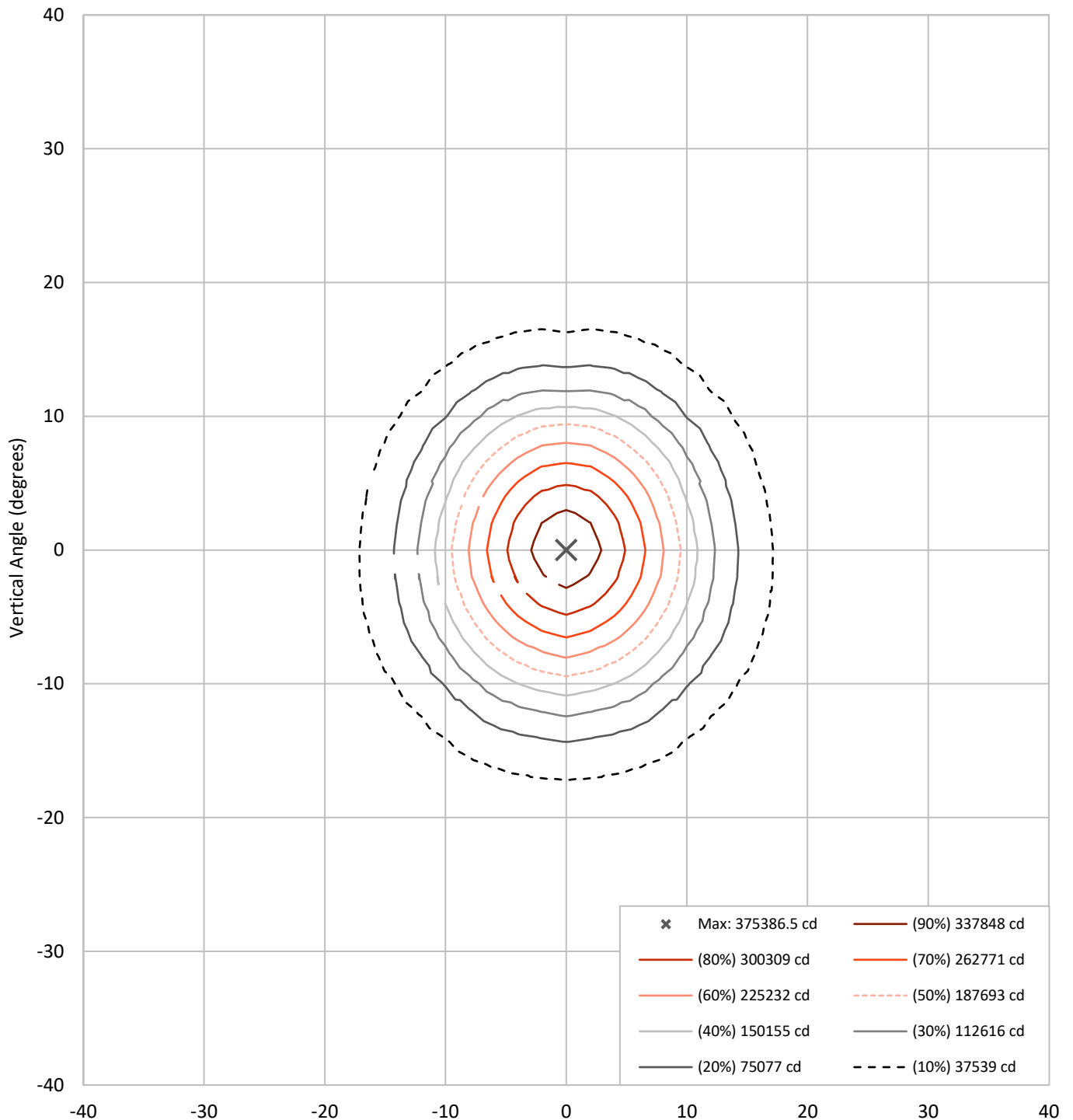
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	49479.6 lumens	Max Intensity:	375386.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	21933.4 lumens	Field Lumens:	39948.4 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 341.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





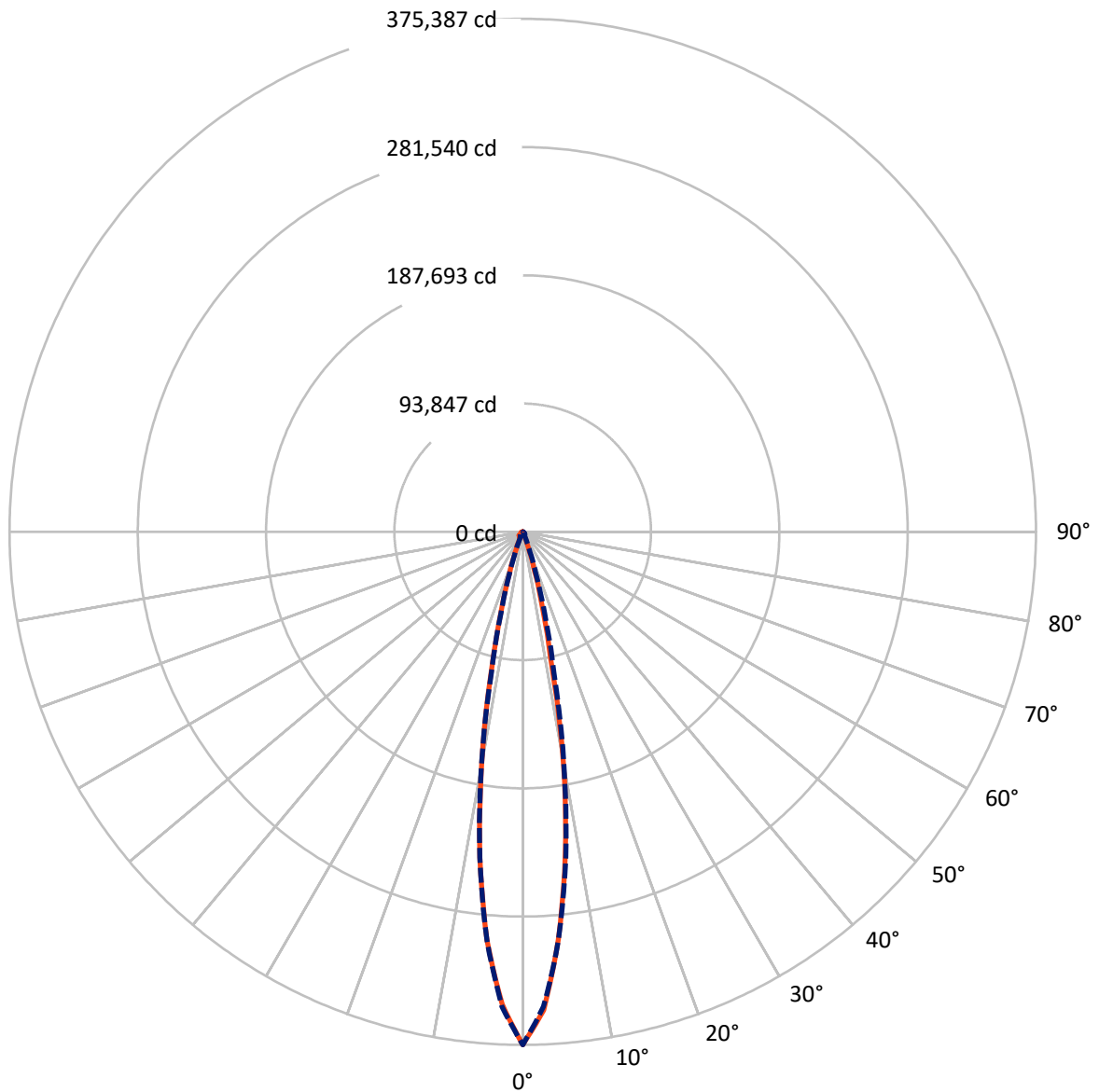
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Lumen Table

90	0.2		0.7		1.3		1.7		1.9		1.7		1.3		0.7		0.2	
80	0.2		0.1	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.1	0.2	
70	0.2		0.3	0.6	0.7	0.6	0.5	0.7	0.7	0.7	0.7	0.5	0.6	0.7	0.6	0.3	0.2	
60	0.2		0.8	1.9	3.6	5.6	9.6	14.6	16.2	16.2	14.6	9.6	5.6	3.6	1.9	0.8	0.2	
50	0.7		1.9	5.3	9.6	20.2	33.1	37.1	38.9	38.9	37.1	33.1	20.2	9.6	5.3	1.9	0.7	
40	0.7		3.2	8.7	17.9	42.6	45.2	54.8	90.7	90.7	54.8	45.2	42.6	17.9	8.7	3.2	0.7	
30	1.6		4.3	11.2	31.9	56.4	66.6	414.6	1652.3	1652.3	414.6	66.6	56.4	31.9	11.2	4.3	1.6	
20	1.6		5.3	13.1	42.2	62.9	124.2	1675.3	6970.0	6970.0	1675.3	124.2	62.9	42.2	13.1	5.3	1.6	
10	2.4		5.9	14.7	45.0	70.0	138.9	1761.2	6936.4	6936.4	1761.2	138.9	70.0	45.0	14.7	5.9	2.4	
0	2.4		6.1	15.8	44.5	77.5	95.5	489.0	1790.3	1790.3	489.0	95.5	77.5	44.5	15.8	6.1	2.4	
-10	2.8		5.9	16.0	34.4	79.0	96.7	105.5	163.9	163.9	105.5	96.7	79.0	34.4	16.0	5.9	2.8	
-20	2.8		5.3	14.9	27.4	57.9	97.2	109.2	110.5	110.5	109.2	97.2	57.9	27.4	14.9	5.3	2.8	
-30	2.6		4.5	12.2	24.0	35.8	54.2	80.3	100.1	100.1	80.3	54.2	35.8	24.0	12.2	4.5	2.6	
-40	2.6		5.3	14.9	27.4	57.9	97.2	109.2	110.5	110.5	109.2	97.2	57.9	27.4	14.9	5.3	2.6	
-50	2.2		4.5	12.2	24.0	35.8	54.2	80.3	100.1	100.1	80.3	54.2	35.8	24.0	12.2	4.5	2.2	
-60	2.2		3.5	8.9	17.5	27.9	36.3	42.3	46.2	46.2	42.3	36.3	27.9	17.5	8.9	3.5	2.2	
-70	2.2		2.7	5.8	10.7	16.9	22.6	27.6	30.9	30.9	27.6	22.6	16.9	10.7	5.8	2.7	2.2	
-80	1.5		10.4		24.9		39.2		46.7		39.2		24.9		10.4		1.5	
-90	1.5		10.4		24.9		39.2		46.7		39.2		24.9		10.4		1.5	

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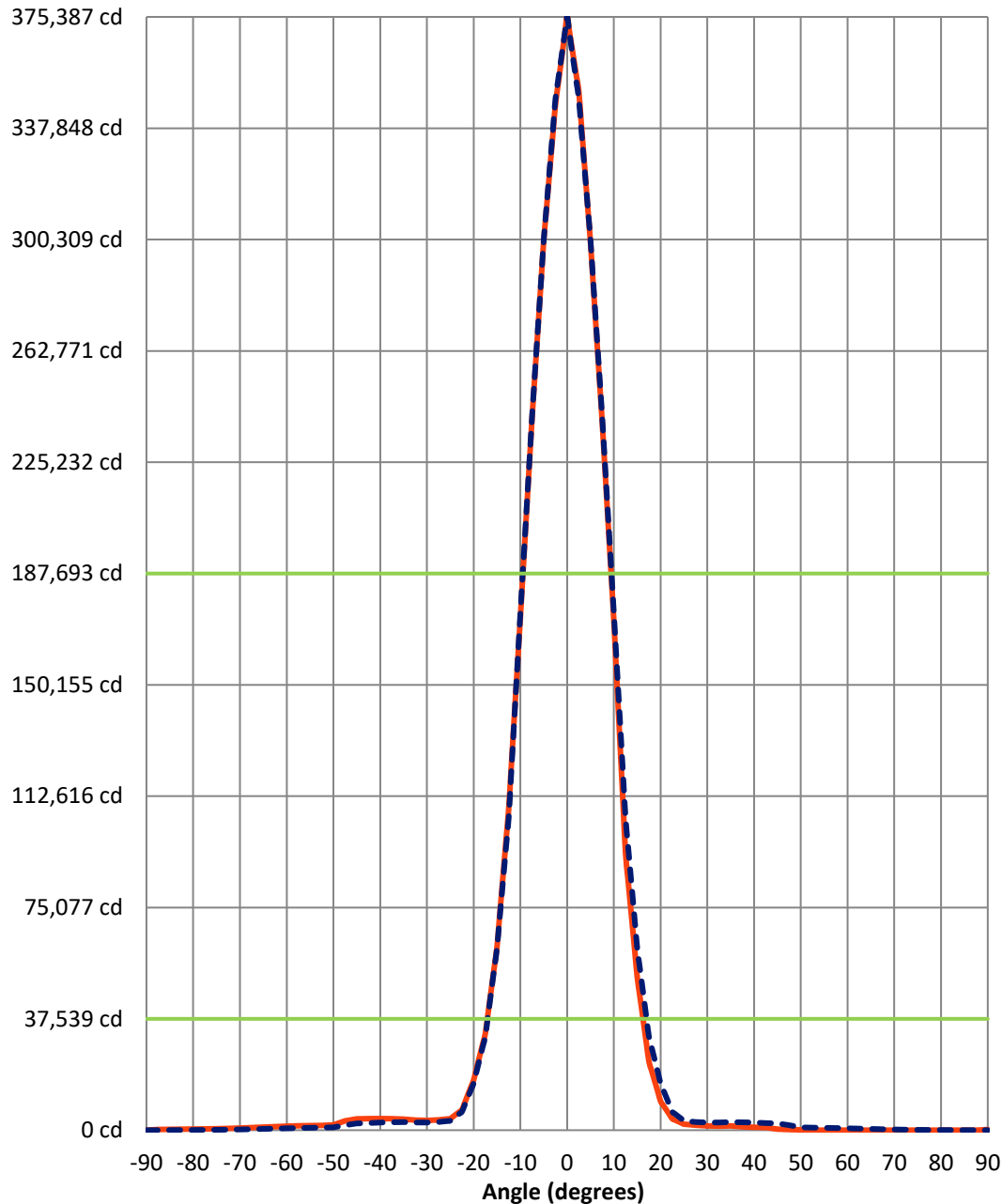
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 18.9°
 Lumens: 21933.4
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 39948.4
 Efficiency: 80.7%

Spill:
 Lumens: 9531.2
 Efficiency: 19.3%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	5.4	14.3	23.3	34.9	46.6	58.2	69.9	78.2	86.5	94.7	103.0
87.5°	5.4	4.7	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.6
85°	5.4	4.8	3.9	4.0	3.9	3.8	3.6	3.6	3.6	3.6	3.6
82.5°	5.4	5.0	4.1	4.1	4.1	3.9	3.6	3.6	3.6	3.7	3.6
80°	5.4	5.1	4.3	4.3	4.2	4.0	3.7	3.9	3.9	3.9	3.6
77.5°	5.4	5.3	4.5	4.5	4.4	4.3	4.2	4.3	4.3	4.1	3.8
75°	5.4	5.5	4.7	4.7	4.7	4.9	4.7	4.7	4.7	4.7	4.3
72.5°	5.4	5.6	4.9	4.9	5.3	5.6	5.3	5.3	5.6	5.4	4.9
70°	5.4	5.8	5.1	5.1	6.0	6.3	6.0	6.3	6.5	6.2	5.9
67.5°	5.4	6.0	5.3	5.7	6.7	6.9	7.2	7.3	7.4	7.6	7.1
65°	5.4	6.2	5.6	6.3	7.4	7.9	8.4	8.3	9.1	9.2	8.7
62.5°	5.4	6.4	5.8	6.9	8.1	9.3	9.7	9.9	10.8	11.0	11.0
60°	5.4	6.5	6.1	7.5	8.8	10.6	11.1	11.7	12.7	13.6	13.6
57.5°	5.4	6.7	6.7	8.2	10.0	12.0	13.3	13.7	15.2	16.4	17.9
55°	5.4	6.9	7.3	8.8	11.3	13.5	15.7	16.1	18.0	20.0	23.5
52.5°	5.4	7.1	8.0	9.4	12.6	15.1	18.2	19.5	21.0	26.0	29.6
50°	5.4	7.3	8.7	10.0	13.9	17.5	20.9	23.2	25.0	32.4	39.3
47.5°	5.4	7.5	9.4	10.7	15.3	19.9	23.8	27.3	31.2	39.2	50.1
45°	5.4	7.7	10.1	11.8	16.6	22.4	27.6	31.6	39.0	49.7	61.6
42.5°	5.4	7.9	10.8	12.8	18.0	25.0	31.5	37.7	47.1	60.8	78.8
40°	5.4	8.1	11.5	14.2	19.7	27.6	35.6	45.0	56.6	72.6	98.1
37.5°	5.4	8.3	12.3	15.7	21.8	30.3	39.9	52.5	68.4	87.7	118.6
35°	5.4	8.5	13.1	17.4	23.9	33.5	44.2	60.1	80.5	106.8	141.7
32.5°	5.4	8.7	13.8	19.0	25.9	37.0	49.3	67.8	92.9	125.4	165.8
30°	5.4	8.8	14.6	20.7	27.9	40.5	55.6	76.3	105.4	143.6	188.9
27.5°	5.4	9.0	15.4	22.3	30.8	44.0	61.8	86.5	119.0	161.4	210.9
25°	5.4	9.2	16.2	24.0	33.8	47.5	68.0	96.7	133.9	179.7	231.9
22.5°	5.4	9.4	17.0	25.7	36.7	51.2	74.1	106.7	148.3	197.5	255.1
20°	5.4	9.6	17.8	27.4	39.7	55.4	80.1	116.6	162.1	214.4	277.0
17.5°	5.4	9.8	18.6	29.0	42.5	59.5	86.1	126.2	175.2	230.2	297.5
15°	5.4	9.9	19.3	30.7	45.3	63.5	91.9	135.0	187.6	244.9	316.7
12.5°	5.4	10.1	20.1	32.3	48.0	67.3	97.4	142.7	198.9	258.4	334.3
10°	5.4	10.3	20.8	33.8	50.7	70.9	102.5	149.7	209.2	273.3	352.5
7.5°	5.4	10.4	21.5	35.3	53.2	74.3	107.3	156.1	218.7	287.8	373.7
5°	5.4	10.5	22.1	36.8	55.6	77.5	111.7	161.8	227.4	301.4	393.5
2.5°	5.4	10.7	22.7	38.1	57.9	80.5	115.6	166.8	235.2	314.0	411.8
0°	5.4	10.8	23.3	39.4	60.0	83.3	119.2	171.1	241.9	325.3	428.3
-2.5°	5.4	11.3	24.6	41.5	62.7	86.8	123.4	177.0	249.8	334.0	437.5
-5°	5.4	11.8	25.8	43.5	65.2	90.0	127.2	182.1	256.5	341.2	444.6
-7.5°	5.4	12.3	26.9	45.3	67.6	93.0	130.6	186.3	261.9	346.9	449.6
-10°	5.4	12.8	28.0	47.1	69.8	95.7	133.4	189.7	266.0	351.0	452.5
-12.5°	5.4	13.3	29.1	48.7	71.8	98.2	135.9	192.2	268.6	353.8	455.6
-15°	5.4	13.7	30.0	50.2	73.6	100.4	137.8	193.7	270.2	356.3	457.3
-17.5°	5.4	14.1	30.9	51.6	75.3	102.3	139.3	194.9	270.7	357.0	456.6
-20°	5.4	14.5	31.7	52.9	76.8	103.9	140.6	195.4	269.8	355.9	453.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.4	14.9	32.4	54.0	78.1	105.3	141.8	194.9	267.4	353.0	447.5
-25°	5.4	15.3	33.1	54.9	79.3	106.6	142.4	193.3	263.5	348.2	439.1
-27.5°	5.4	15.6	33.6	55.7	80.2	107.7	142.4	190.5	258.1	341.9	432.0
-30°	5.4	15.9	34.0	56.4	81.0	108.4	141.7	186.6	253.1	334.4	422.8
-32.5°	5.4	16.2	34.4	56.9	81.7	108.8	140.5	184.6	247.8	325.3	411.4
-35°	5.4	16.4	34.6	57.3	82.1	108.8	140.0	182.6	241.0	314.4	397.9
-37.5°	5.4	16.6	34.8	57.4	82.2	108.8	139.8	179.8	232.9	301.8	384.0
-40°	5.4	16.8	34.8	57.5	82.2	108.7	139.0	176.2	223.4	290.1	368.1
-42.5°	5.4	17.0	34.8	57.3	82.0	108.4	137.9	171.8	216.5	277.5	349.5
-45°	5.4	17.1	34.6	57.0	81.5	107.8	136.3	168.1	210.6	263.2	329.2
-47.5°	5.4	17.2	34.4	56.5	80.9	106.8	134.2	165.6	203.7	247.4	311.2
-50°	5.4	17.3	34.0	55.9	80.0	105.5	132.5	162.7	195.4	237.7	291.2
-52.5°	5.4	17.3	33.6	55.2	78.9	104.0	130.5	159.2	189.4	226.9	270.5
-55°	5.4	17.3	33.0	54.3	77.5	102.2	128.2	155.3	184.2	214.9	256.6
-57.5°	5.4	17.3	32.4	53.3	76.0	100.1	125.5	152.0	178.5	206.8	241.4
-60°	5.4	17.2	31.7	52.1	74.2	97.7	122.4	147.9	172.5	199.6	227.6
-62.5°	5.4	17.1	31.3	50.8	72.3	95.1	119.0	143.4	167.0	191.8	218.7
-65°	5.4	17.0	30.9	49.3	70.1	92.1	115.3	138.4	161.1	184.6	209.2
-67.5°	5.4	16.8	30.5	47.8	67.8	89.0	111.2	133.1	154.8	177.1	200.1
-70°	5.4	16.7	29.9	46.0	65.3	85.6	106.8	127.3	147.8	169.2	191.0
-72.5°	5.4	16.4	29.3	44.8	62.6	82.0	102.1	121.2	140.5	160.5	181.2
-75°	5.4	16.2	28.6	43.7	59.8	78.1	97.2	114.8	132.7	151.2	170.4
-77.5°	5.4	16.0	27.8	42.5	57.7	74.1	92.0	108.1	124.5	141.5	159.1
-80°	5.4	15.7	27.0	41.1	55.7	70.8	86.5	101.1	115.9	131.3	147.1
-82.5°	5.4	15.4	26.2	39.7	53.6	67.9	82.4	94.5	107.1	120.7	134.7
-85°	5.4	15.1	25.2	38.2	51.4	64.8	78.4	89.2	100.3	111.6	123.1
-87.5°	5.4	14.7	24.3	36.6	49.0	61.6	74.2	83.8	93.4	103.2	113.1
-90°	5.4	4.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



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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°	110.9	118.7	126.6	134.4	140.2	146.1	151.9	157.7	162.6	167.6	172.5
87.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
85°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
82.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.3
80°	3.4	3.2	3.1	3.0	3.0	3.0	2.9	2.7	2.7	2.7	2.7
77.5°	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.2	3.1	3.0
75°	4.1	4.1	4.0	3.8	3.5	3.5	3.6	3.6	3.5	3.2	3.0
72.5°	4.7	4.7	4.4	3.9	3.8	3.9	3.8	3.7	3.9	4.4	4.9
70°	5.4	5.3	5.2	4.8	4.3	4.5	5.2	5.9	6.6	7.7	9.2
67.5°	6.4	6.6	6.4	5.9	5.9	6.8	7.6	10.4	13.5	15.2	15.9
65°	8.0	8.1	8.5	8.7	8.1	10.6	13.8	17.6	21.1	21.8	21.2
62.5°	9.9	10.9	11.6	12.3	13.3	15.7	19.5	23.3	27.1	26.0	22.4
60°	13.7	14.2	16.3	18.4	19.1	20.5	24.6	26.7	27.9	27.2	21.1
57.5°	18.4	19.4	22.9	25.3	26.0	24.4	26.0	27.3	27.2	23.9	18.3
55°	24.9	26.2	30.5	33.6	33.5	27.6	27.2	28.5	26.4	23.2	18.1
52.5°	34.3	35.1	39.8	43.2	42.0	35.9	31.5	33.5	33.2	29.1	24.7
50°	44.7	48.6	50.4	55.2	54.9	49.9	41.6	45.8	53.0	51.7	45.5
47.5°	59.4	64.5	64.7	70.5	73.1	77.4	70.4	79.1	89.8	111.7	104.7
45°	76.9	85.5	86.2	91.5	105.0	121.3	127.8	127.3	181.4	200.9	215.2
42.5°	96.4	110.1	115.9	115.5	159.0	183.7	197.8	242.5	283.6	296.0	302.7
40°	121.0	137.6	150.1	178.2	223.2	257.4	292.7	340.5	362.9	365.1	365.2
37.5°	148.0	172.1	192.4	240.2	297.6	335.6	379.5	400.0	415.6	416.5	434.1
35°	177.0	209.4	246.9	300.2	363.4	406.5	431.9	450.5	459.0	478.5	564.2
32.5°	210.2	249.2	298.2	357.5	418.0	461.9	477.0	493.1	513.7	571.6	823.2
30°	243.7	294.1	346.9	410.8	472.1	503.0	519.0	539.2	571.6	797.4	1145.9
27.5°	272.1	336.2	393.8	460.4	523.0	544.4	563.0	593.1	730.9	1047.7	1531.9
25°	299.3	369.6	437.2	509.4	561.2	584.9	608.2	649.0	918.0	1420.0	1750.5
22.5°	326.5	403.4	476.5	557.8	599.3	623.8	659.6	812.2	1188.6	1792.0	1947.4
20°	354.4	437.2	515.6	597.0	635.9	661.4	710.5	997.1	1519.1	1950.7	2094.6
17.5°	381.8	469.8	552.3	624.6	664.9	701.0	778.8	1183.0	1816.7	2107.4	2207.5
15°	408.4	500.9	585.7	651.2	693.8	743.7	939.2	1430.2	2009.7	2248.0	2343.1
12.5°	433.9	530.4	615.9	676.9	722.7	786.1	1107.2	1674.7	2139.0	2358.7	2449.8
10°	458.0	558.1	643.0	701.3	751.3	827.5	1276.5	1881.0	2245.7	2433.5	2503.0
7.5°	480.7	582.0	667.2	724.4	779.2	867.3	1440.7	2051.3	2329.8	2497.0	2539.8
5°	500.6	601.6	689.5	749.3	807.2	902.6	1581.2	2187.6	2395.1	2549.9	2577.7
2.5°	517.7	618.4	709.8	773.4	834.2	930.8	1649.2	2242.8	2403.3	2573.2	2617.1
0°	532.2	632.6	727.6	795.7	859.3	955.2	1688.1	2271.4	2393.3	2579.7	2658.5
-2.5°	544.1	651.9	753.0	819.2	883.3	978.3	1685.3	2293.6	2418.5	2639.0	2817.5
-5°	553.4	668.2	775.4	841.0	905.3	998.0	1655.0	2287.2	2452.8	2691.5	2915.4
-7.5°	560.1	681.0	794.3	861.5	927.0	1020.6	1633.4	2314.6	2552.8	2753.8	2955.1
-10°	564.6	689.4	805.8	880.6	948.8	1042.9	1586.9	2303.1	2646.3	2816.3	2993.2
-12.5°	569.8	694.1	813.2	897.3	967.8	1060.5	1504.7	2248.1	2732.8	2883.6	3030.5
-15°	571.9	695.7	817.1	911.3	983.8	1073.0	1385.5	2146.3	2790.6	2920.2	3054.3
-17.5°	570.9	694.2	817.5	922.5	996.6	1080.2	1228.0	1957.6	2699.8	2934.6	3076.5
-20°	566.8	689.6	814.2	930.8	1006.3	1089.2	1202.7	1740.8	2451.7	2923.8	3092.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	559.4	681.9	806.7	926.1	1017.1	1100.7	1203.9	1515.9	2158.9	2887.4	3093.6
-25°	549.8	671.1	795.0	921.2	1026.5	1108.4	1200.2	1319.5	1869.1	2572.4	3062.7
-27.5°	538.2	656.5	783.5	911.6	1034.1	1113.4	1201.1	1310.2	1613.4	2208.6	2944.9
-30°	523.6	640.3	767.4	896.8	1023.5	1118.8	1201.3	1288.6	1400.6	1880.3	2515.0
-32.5°	507.1	620.5	746.2	875.0	1003.7	1122.5	1194.4	1273.4	1369.6	1542.0	2084.2
-35°	490.5	600.1	720.3	847.9	978.6	1101.0	1188.5	1259.2	1338.1	1442.9	1690.5
-37.5°	474.3	576.2	690.0	815.6	943.8	1062.5	1177.5	1247.4	1319.7	1393.4	1496.4
-40°	455.2	549.0	659.1	777.9	898.5	1016.9	1131.0	1235.4	1301.8	1365.7	1432.4
-42.5°	433.5	524.7	625.7	734.4	848.2	963.1	1079.0	1188.7	1282.0	1339.2	1400.1
-45°	410.0	497.4	589.9	690.0	793.4	904.5	1016.2	1128.1	1227.8	1316.9	1371.3
-47.5°	383.5	467.2	555.7	642.2	738.5	840.8	948.5	1053.7	1156.3	1251.1	1343.7
-50°	356.1	434.3	516.0	596.8	682.8	776.3	875.1	974.9	1073.4	1169.8	1260.9
-52.5°	331.5	398.4	473.7	550.5	628.7	712.0	799.9	890.1	984.5	1078.3	1162.9
-55°	304.9	365.9	428.8	501.2	575.5	650.4	723.9	805.2	889.5	977.8	1056.8
-57.5°	283.5	332.4	387.6	449.0	518.6	589.0	653.7	719.2	794.1	872.5	941.2
-60°	264.6	303.1	348.0	401.3	458.5	522.1	583.0	643.4	704.0	763.8	828.7
-62.5°	246.2	279.7	314.9	355.3	405.9	454.8	508.4	564.2	620.1	673.7	725.6
-65°	235.1	258.5	288.4	321.4	354.4	397.0	440.4	483.3	532.6	581.1	628.5
-67.5°	223.1	245.1	267.5	291.8	322.1	350.0	377.8	416.6	455.0	491.4	528.7
-70°	211.9	231.4	252.2	273.2	293.6	314.3	339.7	364.9	389.6	416.3	448.4
-72.5°	200.4	218.5	237.0	255.9	274.3	291.5	308.7	325.9	346.1	367.8	389.0
-75°	188.0	205.0	222.0	239.2	255.1	270.3	285.7	301.4	316.7	331.8	347.1
-77.5°	174.8	190.1	205.8	221.7	235.8	249.2	262.7	276.4	289.8	303.1	316.2
-80°	161.1	174.9	188.8	202.9	215.1	226.9	238.9	250.8	262.6	274.3	285.9
-82.5°	146.8	158.9	171.1	183.5	193.9	204.0	214.2	224.3	234.3	244.2	254.2
-85°	132.9	142.6	153.0	163.5	172.2	180.9	189.5	198.1	206.4	214.6	222.8
-87.5°	122.0	130.7	139.5	148.2	155.0	161.8	168.6	175.4	181.7	188.1	194.5
-90°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	177.4	180.8	184.2	187.5	190.9	193.8	196.7	199.6	202.5	204.3	206.1
87.5°	1.8	1.8	1.7	1.7	1.7	1.5	1.3	1.1	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.8	1.6	1.4	1.1	0.9	0.9	0.9
82.5°	2.2	2.2	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.7	1.8
80°	2.7	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	2.8	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.8	2.7	2.8	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.2
72.5°	5.4	5.5	5.5	5.6	5.7	5.8	6.1	6.2	6.2	6.3	6.3
70°	10.1	10.4	10.7	10.6	9.9	9.4	9.2	8.9	8.7	8.9	9.4
67.5°	15.3	14.2	13.7	13.0	11.6	10.4	9.6	8.9	8.1	7.7	7.6
65°	19.0	15.0	13.1	11.6	10.4	9.1	7.9	6.8	5.8	5.2	4.9
62.5°	18.1	12.9	10.2	8.6	7.2	5.9	4.9	4.1	3.6	3.3	3.3
60°	15.5	10.1	7.1	5.8	4.3	2.9	2.7	2.5	2.3	2.1	2.3
57.5°	13.8	9.1	5.5	5.4	4.7	3.4	2.9	2.9	2.5	1.8	2.1
55°	15.4	13.0	9.1	9.3	9.1	7.6	6.5	7.8	7.5	5.9	6.4
52.5°	23.1	26.5	21.6	20.0	27.4	27.1	21.2	29.0	33.3	32.6	33.2
50°	54.3	61.3	68.7	63.0	77.3	85.8	84.0	94.1	104.5	104.2	107.5
47.5°	128.6	148.0	150.1	154.0	170.4	191.2	208.1	220.0	226.1	223.6	225.4
45°	230.2	234.6	244.6	266.9	294.7	328.2	353.8	368.6	418.6	454.1	474.9
42.5°	305.1	318.8	343.4	402.1	445.1	544.1	663.8	710.2	769.0	798.9	800.8
40°	380.2	415.0	516.7	623.7	856.1	1028.9	1039.2	1112.5	1146.2	1109.0	1103.5
37.5°	504.4	633.3	808.1	1055.4	1163.5	1210.4	1236.3	1245.6	1252.4	1246.2	1243.0
35°	748.9	973.1	1144.8	1225.4	1274.2	1275.8	1281.8	1280.9	1272.9	1268.8	1259.9
32.5°	1109.6	1323.4	1328.6	1322.4	1332.6	1326.8	1315.5	1310.4	1293.0	1282.6	1286.1
30°	1481.5	1482.7	1461.6	1412.5	1388.1	1380.6	1364.3	1351.0	1334.5	1337.0	1394.2
27.5°	1629.1	1611.0	1581.4	1539.2	1457.1	1441.0	1427.9	1422.3	1491.0	1553.8	1609.9
25°	1794.2	1747.3	1731.1	1694.2	1609.8	1516.3	1557.4	1622.0	1711.9	1805.6	1895.9
22.5°	1937.0	1903.1	1892.7	1879.0	1741.1	1700.8	1757.2	1863.6	1986.4	2149.1	2613.6
20°	2077.7	2041.1	2029.2	1960.4	1888.1	1898.0	2002.8	2188.4	2531.9	3766.1	5273.4
17.5°	2196.0	2158.1	2117.3	2037.0	2014.0	2114.6	2324.3	2976.0	4597.3	8648.6	12766.1
15°	2306.2	2256.5	2187.0	2134.3	2177.9	2365.2	2884.6	5105.0	10356.7	17156.8	25730.4
12.5°	2404.2	2328.1	2230.8	2203.5	2336.0	2651.5	4688.7	10017.4	18050.7	27738.2	47866.1
10°	2472.3	2373.7	2288.9	2336.1	2546.7	3393.6	6747.2	15018.4	26902.8	48570.3	73628.9
7.5°	2501.6	2412.4	2363.0	2464.3	2745.5	4358.1	10157.2	20770.5	37997.2	67132.5	107114.1
5°	2534.9	2473.2	2445.7	2591.2	2937.0	5144.0	12609.6	25611.2	49861.3	84566.3	136052.6
2.5°	2601.9	2543.3	2524.0	2702.7	3104.6	5876.7	14526.0	29374.5	57721.5	99113.8	161732.9
0°	2720.3	2598.5	2583.2	2758.0	3171.9	6210.3	15783.5	31644.0	61460.1	105338.3	174368.0
-2.5°	2814.3	2669.2	2640.2	2796.0	3201.5	6046.9	15655.9	31565.8	59934.8	103258.0	166344.1
-5°	2896.4	2750.8	2710.7	2855.5	3266.7	6040.8	14826.5	28963.4	53630.7	90734.5	140188.1
-7.5°	2969.4	2843.5	2784.2	2899.4	3275.3	5409.7	11992.2	23845.9	42868.3	70840.5	108504.0
-10°	3046.4	2949.7	2868.9	2946.0	3238.9	4304.3	8022.7	17189.1	30529.1	51372.7	77216.9
-12.5°	3134.4	3085.7	2966.9	2978.1	3189.6	3632.2	5929.6	12000.6	21195.2	32361.4	51095.0
-15°	3209.0	3206.8	3107.5	3075.8	3180.9	3464.7	4136.9	6664.3	12856.9	20802.6	30069.7
-17.5°	3224.6	3304.0	3265.9	3169.4	3175.6	3334.7	3611.8	4416.3	6458.1	11446.1	16959.9
-20°	3234.6	3404.3	3408.2	3329.9	3261.2	3243.4	3370.0	3604.7	4060.9	5746.5	7965.2



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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°	3249.9	3411.2	3525.9	3504.2	3369.3	3290.4	3262.0	3350.9	3505.3	3722.8	4442.7
-25°	3257.2	3407.7	3571.9	3616.9	3560.3	3416.0	3308.0	3247.6	3302.3	3371.3	3512.1
-27.5°	3226.1	3402.3	3561.5	3694.9	3711.1	3616.7	3458.0	3329.2	3279.2	3231.8	3289.7
-30°	3174.5	3371.3	3537.8	3702.0	3767.6	3737.3	3654.2	3549.7	3427.7	3332.8	3299.5
-32.5°	2751.9	3324.9	3495.4	3637.7	3746.0	3776.9	3777.8	3721.8	3669.6	3596.5	3510.8
-35°	2267.2	2902.8	3457.6	3529.2	3628.6	3731.1	3807.3	3809.8	3803.7	3769.0	3732.9
-37.5°	1762.4	2354.8	2888.3	3315.4	3465.6	3586.3	3716.7	3804.8	3860.2	3850.2	3843.5
-40°	1534.4	1721.1	2220.2	2655.6	3020.8	3364.5	3505.8	3664.1	3791.5	3835.8	3865.7
-42.5°	1464.0	1543.8	1625.1	1955.0	2331.3	2662.3	2973.5	3270.3	3535.4	3685.5	3790.0
-45°	1425.3	1469.8	1519.6	1593.0	1656.5	1930.6	2209.5	2480.4	2811.0	3115.4	3379.3
-47.5°	1389.6	1424.4	1462.9	1500.7	1536.0	1585.7	1628.8	1705.7	1953.4	2203.1	2453.7
-50°	1332.1	1389.5	1421.5	1449.7	1474.6	1497.7	1517.6	1552.4	1593.5	1629.4	1665.6
-52.5°	1235.9	1300.6	1362.0	1408.5	1428.0	1447.2	1466.8	1493.2	1517.5	1539.8	1556.9
-55°	1128.0	1193.5	1255.4	1302.5	1344.8	1383.7	1418.4	1441.8	1464.5	1486.4	1503.1
-57.5°	1009.4	1076.1	1136.7	1181.9	1224.2	1263.4	1301.6	1338.3	1372.0	1402.2	1428.0
-60°	889.3	945.7	1000.3	1048.1	1091.7	1131.1	1168.8	1204.9	1238.0	1267.7	1293.6
-62.5°	776.5	828.7	872.0	911.1	948.6	984.9	1023.1	1058.3	1090.2	1119.4	1146.2
-65°	674.8	719.8	752.5	783.1	812.1	843.3	876.9	907.9	936.1	962.3	986.5
-67.5°	570.2	609.2	637.9	664.4	689.1	714.0	740.8	765.9	788.9	811.0	831.7
-70°	479.4	506.6	526.6	547.0	568.9	591.2	614.4	635.5	654.4	672.5	689.1
-72.5°	409.6	426.3	440.4	457.7	473.4	490.1	507.2	523.1	537.7	551.9	565.1
-75°	362.4	374.7	386.1	396.8	406.8	418.8	431.2	442.9	453.9	464.2	474.0
-77.5°	329.4	339.0	346.9	354.4	361.5	370.7	380.4	389.9	399.1	406.9	414.1
-80°	297.3	305.0	311.7	318.2	324.5	332.5	340.6	348.5	356.3	363.3	370.1
-82.5°	264.0	270.3	276.0	281.6	286.9	293.7	300.4	306.9	313.3	319.1	324.7
-85°	231.0	235.7	240.2	244.6	248.8	254.3	259.8	265.1	270.3	274.1	277.7
-87.5°	200.8	204.4	207.8	211.1	214.3	218.3	222.3	226.3	230.2	232.7	235.2
-90°	1.8	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	207.9	209.7	209.3	208.8	209.3	209.7	207.9	206.1	204.3	202.5	199.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.0	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.5	2.6
72.5°	6.3	6.2	6.3	6.3	6.3	6.2	6.3	6.3	6.3	6.2	6.2
70°	10.0	10.6	10.8	10.8	10.8	10.6	10.0	9.4	8.9	8.7	8.9
67.5°	7.4	7.3	6.8	6.3	6.8	7.3	7.4	7.6	7.7	8.1	8.9
65°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.9	5.2	5.8	6.8
62.5°	3.4	3.6	3.6	3.6	3.6	3.6	3.4	3.3	3.3	3.6	4.1
60°	2.5	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.1	2.3	2.5
57.5°	2.4	2.6	2.7	2.7	2.7	2.6	2.4	2.1	1.8	2.5	2.9
55°	6.9	7.0	6.8	6.3	6.8	7.0	6.9	6.4	5.9	7.5	7.8
52.5°	32.7	30.2	26.3	21.5	26.3	30.2	32.7	33.2	32.6	33.3	29.0
50°	113.7	116.8	114.1	105.7	114.1	116.8	113.7	107.5	104.2	104.5	94.1
47.5°	234.2	236.8	228.6	209.7	228.6	236.8	234.2	225.4	223.6	226.1	220.0
45°	490.3	486.5	444.3	356.6	444.3	486.5	490.3	474.9	454.1	418.6	368.6
42.5°	845.6	883.3	905.5	905.9	905.5	883.3	845.6	800.8	798.9	769.0	710.2
40°	1094.5	1050.3	1002.0	994.6	1002.0	1050.3	1094.5	1103.5	1109.0	1146.2	1112.5
37.5°	1235.5	1244.8	1239.4	1135.3	1239.4	1244.8	1235.5	1243.0	1246.2	1252.4	1245.6
35°	1280.3	1350.4	1422.4	1437.2	1422.4	1350.4	1280.3	1259.9	1268.8	1272.9	1280.9
32.5°	1302.1	1326.1	1332.6	1335.1	1332.6	1326.1	1302.1	1286.1	1282.6	1293.0	1310.4
30°	1420.6	1436.3	1434.0	1431.0	1434.0	1436.3	1420.6	1394.2	1337.0	1334.5	1351.0
27.5°	1636.4	1662.3	1673.9	1681.8	1673.9	1662.3	1636.4	1609.9	1553.8	1491.0	1422.3
25°	1945.3	1985.0	2012.2	2024.1	2012.2	1985.0	1945.3	1895.9	1805.6	1711.9	1622.0
22.5°	3150.1	3424.9	3697.0	3837.7	3697.0	3424.9	3150.1	2613.6	2149.1	1986.4	1863.6
20°	7863.9	9051.5	9594.0	9752.3	9594.0	9051.5	7863.9	5273.4	3766.1	2531.9	2188.4
17.5°	18313.2	22815.4	25826.7	23188.2	25826.7	22815.4	18313.2	12766.1	8648.6	4597.3	2976.0
15°	37483.0	48885.4	55265.9	51675.5	55265.9	48885.4	37483.0	25730.4	17156.8	10356.7	5105.0
12.5°	67533.6	85328.8	97280.6	93339.3	97280.6	85328.8	67533.6	47866.1	27738.2	18050.7	10017.4
10°	106296.5	142079.7	165906.3	171796.5	165906.3	142079.7	106296.5	73628.9	48570.3	26902.8	15018.4
7.5°	154256.5	198561.0	233532.7	238945.4	233532.7	198561.0	154256.5	107114.1	67132.5	37997.2	20770.5
5°	201175.7	253471.4	289858.7	299305.1	289858.7	253471.4	201175.7	136052.6	84566.3	49861.3	25611.2
2.5°	230297.0	287216.7	331047.2	350353.5	331047.2	287216.7	230297.0	161732.9	99113.8	57721.5	29374.5
0°	240691.3	300136.7	347692.7	375386.5	347692.7	300136.7	240691.3	174368.0	105338.3	61460.1	31644.0
-2.5°	232632.4	286465.8	326611.5	345863.4	326611.5	286465.8	232632.4	166344.1	103258.0	59934.8	31565.8
-5°	198137.2	251624.4	284287.8	299970.0	284287.8	251624.4	198137.2	140188.1	90734.5	53630.7	28963.4
-7.5°	154826.5	197636.6	225842.0	240109.3	225842.0	197636.6	154826.5	108504.0	70840.5	42868.3	23845.9
-10°	108332.1	142296.3	161309.0	172950.5	161309.0	142296.3	108332.1	77216.9	51372.7	30529.1	17189.1
-12.5°	70486.2	90255.4	100903.7	108362.4	100903.7	90255.4	70486.2	51095.0	32361.4	21195.2	12000.6
-15°	42789.3	52424.0	58205.2	61829.2	58205.2	52424.0	42789.3	30069.7	20802.6	12856.9	6664.3
-17.5°	23882.5	28020.7	30950.9	32572.3	30950.9	28020.7	23882.5	16959.9	11446.1	6458.1	4416.3
-20°	11850.5	14468.4	16187.9	16909.8	16187.9	14468.4	11850.5	7965.2	5746.5	4060.9	3604.7



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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°	5469.1	6168.4	6631.4	6851.9	6631.4	6168.4	5469.1	4442.7	3722.8	3505.3	3350.9
-25°	3649.0	3758.7	3839.4	3874.4	3839.4	3758.7	3649.0	3512.1	3371.3	3302.3	3247.6
-27.5°	3342.2	3400.4	3448.6	3467.6	3448.6	3400.4	3342.2	3289.7	3231.8	3279.2	3329.2
-30°	3273.9	3276.4	3290.1	3290.2	3290.1	3276.4	3273.9	3299.5	3332.8	3427.7	3549.7
-32.5°	3446.0	3408.2	3391.7	3409.4	3391.7	3408.2	3446.0	3510.8	3596.5	3669.6	3721.8
-35°	3708.9	3698.6	3699.5	3718.5	3699.5	3698.6	3708.9	3732.9	3769.0	3803.7	3809.8
-37.5°	3845.2	3853.2	3862.3	3864.6	3862.3	3853.2	3845.2	3843.5	3850.2	3860.2	3804.8
-40°	3883.1	3898.7	3910.5	3914.7	3910.5	3898.7	3883.1	3865.7	3835.8	3791.5	3664.1
-42.5°	3836.2	3867.4	3883.9	3887.8	3883.9	3867.4	3836.2	3790.0	3685.5	3535.4	3270.3
-45°	3571.0	3710.0	3788.7	3809.9	3788.7	3710.0	3571.0	3379.3	3115.4	2811.0	2480.4
-47.5°	2697.5	2915.8	3067.7	3137.9	3067.7	2915.8	2697.5	2453.7	2203.1	1953.4	1705.7
-50°	1703.6	1739.5	1766.4	1783.1	1766.4	1739.5	1703.6	1665.6	1629.4	1593.5	1552.4
-52.5°	1571.7	1584.9	1592.6	1595.8	1592.6	1584.9	1571.7	1556.9	1539.8	1517.5	1493.2
-55°	1517.3	1529.6	1534.9	1535.8	1534.9	1529.6	1517.3	1503.1	1486.4	1464.5	1441.8
-57.5°	1450.2	1468.9	1477.1	1478.4	1477.1	1468.9	1450.2	1428.0	1402.2	1372.0	1338.3
-60°	1315.5	1333.5	1342.4	1345.8	1342.4	1333.5	1315.5	1293.6	1267.7	1238.0	1204.9
-62.5°	1169.5	1189.1	1195.1	1194.4	1195.1	1189.1	1169.5	1146.2	1119.4	1090.2	1058.3
-65°	1007.6	1025.6	1030.8	1030.4	1030.8	1025.6	1007.6	986.5	962.3	936.1	907.9
-67.5°	850.0	865.8	871.3	872.7	871.3	865.8	850.0	831.7	811.0	788.9	765.9
-70°	703.7	716.3	719.4	719.5	719.4	716.3	703.7	689.1	672.5	654.4	635.5
-72.5°	577.2	588.0	589.9	589.6	589.9	588.0	577.2	565.1	551.9	537.7	523.1
-75°	483.2	491.7	492.0	491.0	492.0	491.7	483.2	474.0	464.2	453.9	442.9
-77.5°	420.8	427.2	428.5	429.2	428.5	427.2	420.8	414.1	406.9	399.1	389.9
-80°	376.5	382.6	382.4	381.7	382.4	382.6	376.5	370.1	363.3	356.3	348.5
-82.5°	330.1	335.3	335.4	335.1	335.4	335.3	330.1	324.7	319.1	313.3	306.9
-85°	281.2	284.5	284.4	284.0	284.4	284.5	281.2	277.7	274.1	270.3	265.1
-87.5°	237.6	240.0	240.1	240.1	240.1	240.0	237.6	235.2	232.7	230.2	226.3
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	196.7	193.8	190.9	187.5	184.2	180.8	177.4	172.5	167.6	162.6	157.7
87.5°	1.3	1.5	1.7	1.7	1.7	1.8	1.8	2.0	2.3	2.5	2.7
85°	1.4	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.3	2.5	2.7
82.5°	1.7	1.8	1.8	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.7
80°	1.8	1.8	1.8	2.1	2.3	2.5	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	2.1	2.3	2.5	2.8	3.0	3.1	3.2	3.2
75°	2.7	2.7	2.7	2.8	2.8	2.7	2.8	3.0	3.2	3.5	3.6
72.5°	6.1	5.8	5.7	5.6	5.5	5.5	5.4	4.9	4.4	3.9	3.7
70°	9.2	9.4	9.9	10.6	10.7	10.4	10.1	9.2	7.7	6.6	5.9
67.5°	9.6	10.4	11.6	13.0	13.7	14.2	15.3	15.9	15.2	13.5	10.4
65°	7.9	9.1	10.4	11.6	13.1	15.0	19.0	21.2	21.8	21.1	17.6
62.5°	4.9	5.9	7.2	8.6	10.2	12.9	18.1	22.4	26.0	27.1	23.3
60°	2.7	2.9	4.3	5.8	7.1	10.1	15.5	21.1	27.2	27.9	26.7
57.5°	2.9	3.4	4.7	5.4	5.5	9.1	13.8	18.3	23.9	27.2	27.3
55°	6.5	7.6	9.1	9.3	9.1	13.0	15.4	18.1	23.2	26.4	28.5
52.5°	21.2	27.1	27.4	20.0	21.6	26.5	23.1	24.7	29.1	33.2	33.5
50°	84.0	85.8	77.3	63.0	68.7	61.3	54.3	45.5	51.7	53.0	45.8
47.5°	208.1	191.2	170.4	154.0	150.1	148.0	128.6	104.7	111.7	89.8	79.1
45°	353.8	328.2	294.7	266.9	244.6	234.6	230.2	215.2	200.9	181.4	127.3
42.5°	663.8	544.1	445.1	402.1	343.4	318.8	305.1	302.7	296.0	283.6	242.5
40°	1039.2	1028.9	856.1	623.7	516.7	415.0	380.2	365.2	365.1	362.9	340.5
37.5°	1236.3	1210.4	1163.5	1055.4	808.1	633.3	504.4	434.1	416.5	415.6	400.0
35°	1281.8	1275.8	1274.2	1225.4	1144.8	973.1	748.9	564.2	478.5	459.0	450.5
32.5°	1315.5	1326.8	1332.6	1322.4	1328.6	1323.4	1109.6	823.2	571.6	513.7	493.1
30°	1364.3	1380.6	1388.1	1412.5	1461.6	1482.7	1481.5	1145.9	797.4	571.6	539.2
27.5°	1427.9	1441.0	1457.1	1539.2	1581.4	1611.0	1629.1	1531.9	1047.7	730.9	593.1
25°	1557.4	1516.3	1609.8	1694.2	1731.1	1747.3	1794.2	1750.5	1420.0	918.0	649.0
22.5°	1757.2	1700.8	1741.1	1879.0	1892.7	1903.1	1937.0	1947.4	1792.0	1188.6	812.2
20°	2002.8	1898.0	1888.1	1960.4	2029.2	2041.1	2077.7	2094.6	1950.7	1519.1	997.1
17.5°	2324.3	2114.6	2014.0	2037.0	2117.3	2158.1	2196.0	2207.5	2107.4	1816.7	1183.0
15°	2884.6	2365.2	2177.9	2134.3	2187.0	2256.5	2306.2	2343.1	2248.0	2009.7	1430.2
12.5°	4688.7	2651.5	2336.0	2203.5	2230.8	2328.1	2404.2	2449.8	2358.7	2139.0	1674.7
10°	6747.2	3393.6	2546.7	2336.1	2288.9	2373.7	2472.3	2503.0	2433.5	2245.7	1881.0
7.5°	10157.2	4358.1	2745.5	2464.3	2363.0	2412.4	2501.6	2539.8	2497.0	2329.8	2051.3
5°	12609.6	5144.0	2937.0	2591.2	2445.7	2473.2	2534.9	2577.7	2549.9	2395.1	2187.6
2.5°	14526.0	5876.7	3104.6	2702.7	2524.0	2543.3	2601.9	2617.1	2573.2	2403.3	2242.8
0°	15783.5	6210.3	3171.9	2758.0	2583.2	2598.5	2720.3	2658.5	2579.7	2393.3	2271.4
-2.5°	15655.9	6046.9	3201.5	2796.0	2640.2	2669.2	2814.3	2817.5	2639.0	2418.5	2293.6
-5°	14826.5	6040.8	3266.7	2855.5	2710.7	2750.8	2896.4	2915.4	2691.5	2452.8	2287.2
-7.5°	11992.2	5409.7	3275.3	2899.4	2784.2	2843.5	2969.4	2955.1	2753.8	2552.8	2314.6
-10°	8022.7	4304.3	3238.9	2946.0	2868.9	2949.7	3046.4	2993.2	2816.3	2646.3	2303.1
-12.5°	5929.6	3632.2	3189.6	2978.1	2966.9	3085.7	3134.4	3030.5	2883.6	2732.8	2248.1
-15°	4136.9	3464.7	3180.9	3075.8	3107.5	3206.8	3209.0	3054.3	2920.2	2790.6	2146.3
-17.5°	3611.8	3334.7	3175.6	3169.4	3265.9	3304.0	3224.6	3076.5	2934.6	2699.8	1957.6
-20°	3370.0	3243.4	3261.2	3329.9	3408.2	3404.3	3234.6	3092.4	2923.8	2451.7	1740.8



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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°	3262.0	3290.4	3369.3	3504.2	3525.9	3411.2	3249.9	3093.6	2887.4	2158.9	1515.9
-25°	3308.0	3416.0	3560.3	3616.9	3571.9	3407.7	3257.2	3062.7	2572.4	1869.1	1319.5
-27.5°	3458.0	3616.7	3711.1	3694.9	3561.5	3402.3	3226.1	2944.9	2208.6	1613.4	1310.2
-30°	3654.2	3737.3	3767.6	3702.0	3537.8	3371.3	3174.5	2515.0	1880.3	1400.6	1288.6
-32.5°	3777.8	3776.9	3746.0	3637.7	3495.4	3324.9	2751.9	2084.2	1542.0	1369.6	1273.4
-35°	3807.3	3731.1	3628.6	3529.2	3457.6	2902.8	2267.2	1690.5	1442.9	1338.1	1259.2
-37.5°	3716.7	3586.3	3465.6	3315.4	2888.3	2354.8	1762.4	1496.4	1393.4	1319.7	1247.4
-40°	3505.8	3364.5	3020.8	2655.6	2220.2	1721.1	1534.4	1432.4	1365.7	1301.8	1235.4
-42.5°	2973.5	2662.3	2331.3	1955.0	1625.1	1543.8	1464.0	1400.1	1339.2	1282.0	1188.7
-45°	2209.5	1930.6	1656.5	1593.0	1519.6	1469.8	1425.3	1371.3	1316.9	1227.8	1128.1
-47.5°	1628.8	1585.7	1536.0	1500.7	1462.9	1424.4	1389.6	1343.7	1251.1	1156.3	1053.7
-50°	1517.6	1497.7	1474.6	1449.7	1421.5	1389.5	1332.1	1260.9	1169.8	1073.4	974.9
-52.5°	1466.8	1447.2	1428.0	1408.5	1362.0	1300.6	1235.9	1162.9	1078.3	984.5	890.1
-55°	1418.4	1383.7	1344.8	1302.5	1255.4	1193.5	1128.0	1056.8	977.8	889.5	805.2
-57.5°	1301.6	1263.4	1224.2	1181.9	1136.7	1076.1	1009.4	941.2	872.5	794.1	719.2
-60°	1168.8	1131.1	1091.7	1048.1	1000.3	945.7	889.3	828.7	763.8	704.0	643.4
-62.5°	1023.1	984.9	948.6	911.1	872.0	828.7	776.5	725.6	673.7	620.1	564.2
-65°	876.9	843.3	812.1	783.1	752.5	719.8	674.8	628.5	581.1	532.6	483.3
-67.5°	740.8	714.0	689.1	664.4	637.9	609.2	570.2	528.7	491.4	455.0	416.6
-70°	614.4	591.2	568.9	547.0	526.6	506.6	479.4	448.4	416.3	389.6	364.9
-72.5°	507.2	490.1	473.4	457.7	440.4	426.3	409.6	389.0	367.8	346.1	325.9
-75°	431.2	418.8	406.8	396.8	386.1	374.7	362.4	347.1	331.8	316.7	301.4
-77.5°	380.4	370.7	361.5	354.4	346.9	339.0	329.4	316.2	303.1	289.8	276.4
-80°	340.6	332.5	324.5	318.2	311.7	305.0	297.3	285.9	274.3	262.6	250.8
-82.5°	300.4	293.7	286.9	281.6	276.0	270.3	264.0	254.2	244.2	234.3	224.3
-85°	259.8	254.3	248.8	244.6	240.2	235.7	231.0	222.8	214.6	206.4	198.1
-87.5°	222.3	218.3	214.3	211.1	207.8	204.4	200.8	194.5	188.1	181.7	175.4
-90°	0.9	0.9	0.9	1.1	1.4	1.6	1.8	2.0	2.3	2.5	2.7



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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°	151.9	146.1	140.2	134.4	126.6	118.7	110.9	103.0	94.7	86.5	78.2
87.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
85°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
82.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.7	3.6	3.6
80°	2.9	3.0	3.0	3.0	3.1	3.2	3.4	3.6	3.9	3.9	3.9
77.5°	3.2	3.3	3.4	3.5	3.6	3.6	3.7	3.8	4.1	4.3	4.3
75°	3.6	3.5	3.5	3.8	4.0	4.1	4.1	4.3	4.7	4.7	4.7
72.5°	3.8	3.9	3.8	3.9	4.4	4.7	4.7	4.9	5.4	5.6	5.3
70°	5.2	4.5	4.3	4.8	5.2	5.3	5.4	5.9	6.2	6.5	6.3
67.5°	7.6	6.8	5.9	5.9	6.4	6.6	6.4	7.1	7.6	7.4	7.3
65°	13.8	10.6	8.1	8.7	8.5	8.1	8.0	8.7	9.2	9.1	8.3
62.5°	19.5	15.7	13.3	12.3	11.6	10.9	9.9	11.0	11.0	10.8	9.9
60°	24.6	20.5	19.1	18.4	16.3	14.2	13.7	13.6	13.6	12.7	11.7
57.5°	26.0	24.4	26.0	25.3	22.9	19.4	18.4	17.9	16.4	15.2	13.7
55°	27.2	27.6	33.5	33.6	30.5	26.2	24.9	23.5	20.0	18.0	16.1
52.5°	31.5	35.9	42.0	43.2	39.8	35.1	34.3	29.6	26.0	21.0	19.5
50°	41.6	49.9	54.9	55.2	50.4	48.6	44.7	39.3	32.4	25.0	23.2
47.5°	70.4	77.4	73.1	70.5	64.7	64.5	59.4	50.1	39.2	31.2	27.3
45°	127.8	121.3	105.0	91.5	86.2	85.5	76.9	61.6	49.7	39.0	31.6
42.5°	197.8	183.7	159.0	115.5	115.9	110.1	96.4	78.8	60.8	47.1	37.7
40°	292.7	257.4	223.2	178.2	150.1	137.6	121.0	98.1	72.6	56.6	45.0
37.5°	379.5	335.6	297.6	240.2	192.4	172.1	148.0	118.6	87.7	68.4	52.5
35°	431.9	406.5	363.4	300.2	246.9	209.4	177.0	141.7	106.8	80.5	60.1
32.5°	477.0	461.9	418.0	357.5	298.2	249.2	210.2	165.8	125.4	92.9	67.8
30°	519.0	503.0	472.1	410.8	346.9	294.1	243.7	188.9	143.6	105.4	76.3
27.5°	563.0	544.4	523.0	460.4	393.8	336.2	272.1	210.9	161.4	119.0	86.5
25°	608.2	584.9	561.2	509.4	437.2	369.6	299.3	231.9	179.7	133.9	96.7
22.5°	659.6	623.8	599.3	557.8	476.5	403.4	326.5	255.1	197.5	148.3	106.7
20°	710.5	661.4	635.9	597.0	515.6	437.2	354.4	277.0	214.4	162.1	116.6
17.5°	778.8	701.0	664.9	624.6	552.3	469.8	381.8	297.5	230.2	175.2	126.2
15°	939.2	743.7	693.8	651.2	585.7	500.9	408.4	316.7	244.9	187.6	135.0
12.5°	1107.2	786.1	722.7	676.9	615.9	530.4	433.9	334.3	258.4	198.9	142.7
10°	1276.5	827.5	751.3	701.3	643.0	558.1	458.0	352.5	273.3	209.2	149.7
7.5°	1440.7	867.3	779.2	724.4	667.2	582.0	480.7	373.7	287.8	218.7	156.1
5°	1581.2	902.6	807.2	749.3	689.5	601.6	500.6	393.5	301.4	227.4	161.8
2.5°	1649.2	930.8	834.2	773.4	709.8	618.4	517.7	411.8	314.0	235.2	166.8
0°	1688.1	955.2	859.3	795.7	727.6	632.6	532.2	428.3	325.3	241.9	171.1
-2.5°	1685.3	978.3	883.3	819.2	753.0	651.9	544.1	437.5	334.0	249.8	177.0
-5°	1655.0	998.0	905.3	841.0	775.4	668.2	553.4	444.6	341.2	256.5	182.1
-7.5°	1633.4	1020.6	927.0	861.5	794.3	681.0	560.1	449.6	346.9	261.9	186.3
-10°	1586.9	1042.9	948.8	880.6	805.8	689.4	564.6	452.5	351.0	266.0	189.7
-12.5°	1504.7	1060.5	967.8	897.3	813.2	694.1	569.8	455.6	353.8	268.6	192.2
-15°	1385.5	1073.0	983.8	911.3	817.1	695.7	571.9	457.3	356.3	270.2	193.7
-17.5°	1228.0	1080.2	996.6	922.5	817.5	694.2	570.9	456.6	357.0	270.7	194.9
-20°	1202.7	1089.2	1006.3	930.8	814.2	689.6	566.8	453.4	355.9	269.8	195.4



REPORT NUMBER: P701342 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1203.9	1100.7	1017.1	926.1	806.7	681.9	559.4	447.5	353.0	267.4	194.9
-25°	1200.2	1108.4	1026.5	921.2	795.0	671.1	549.8	439.1	348.2	263.5	193.3
-27.5°	1201.1	1113.4	1034.1	911.6	783.5	656.5	538.2	432.0	341.9	258.1	190.5
-30°	1201.3	1118.8	1023.5	896.8	767.4	640.3	523.6	422.8	334.4	253.1	186.6
-32.5°	1194.4	1122.5	1003.7	875.0	746.2	620.5	507.1	411.4	325.3	247.8	184.6
-35°	1188.5	1101.0	978.6	847.9	720.3	600.1	490.5	397.9	314.4	241.0	182.6
-37.5°	1177.5	1062.5	943.8	815.6	690.0	576.2	474.3	384.0	301.8	232.9	179.8
-40°	1131.0	1016.9	898.5	777.9	659.1	549.0	455.2	368.1	290.1	223.4	176.2
-42.5°	1079.0	963.1	848.2	734.4	625.7	524.7	433.5	349.5	277.5	216.5	171.8
-45°	1016.2	904.5	793.4	690.0	589.9	497.4	410.0	329.2	263.2	210.6	168.1
-47.5°	948.5	840.8	738.5	642.2	555.7	467.2	383.5	311.2	247.4	203.7	165.6
-50°	875.1	776.3	682.8	596.8	516.0	434.3	356.1	291.2	237.7	195.4	162.7
-52.5°	799.9	712.0	628.7	550.5	473.7	398.4	331.5	270.5	226.9	189.4	159.2
-55°	723.9	650.4	575.5	501.2	428.8	365.9	304.9	256.6	214.9	184.2	155.3
-57.5°	653.7	589.0	518.6	449.0	387.6	332.4	283.5	241.4	206.8	178.5	152.0
-60°	583.0	522.1	458.5	401.3	348.0	303.1	264.6	227.6	199.6	172.5	147.9
-62.5°	508.4	454.8	405.9	355.3	314.9	279.7	246.2	218.7	191.8	167.0	143.4
-65°	440.4	397.0	354.4	321.4	288.4	258.5	235.1	209.2	184.6	161.1	138.4
-67.5°	377.8	350.0	322.1	291.8	267.5	245.1	223.1	200.1	177.1	154.8	133.1
-70°	339.7	314.3	293.6	273.2	252.2	231.4	211.9	191.0	169.2	147.8	127.3
-72.5°	308.7	291.5	274.3	255.9	237.0	218.5	200.4	181.2	160.5	140.5	121.2
-75°	285.7	270.3	255.1	239.2	222.0	205.0	188.0	170.4	151.2	132.7	114.8
-77.5°	262.7	249.2	235.8	221.7	205.8	190.1	174.8	159.1	141.5	124.5	108.1
-80°	238.9	226.9	215.1	202.9	188.8	174.9	161.1	147.1	131.3	115.9	101.1
-82.5°	214.2	204.0	193.9	183.5	171.1	158.9	146.8	134.7	120.7	107.1	94.5
-85°	189.5	180.9	172.2	163.5	153.0	142.6	132.9	123.1	111.6	100.3	89.2
-87.5°	168.6	161.8	155.0	148.2	139.5	130.7	122.0	113.1	103.2	93.4	83.8
-90°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6



REPORT NUMBER: P701342 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	69.9	58.2	46.6	34.9	23.3	14.3	5.4
87.5°	3.6	3.7	3.8	3.8	3.8	4.7	5.4
85°	3.6	3.8	3.9	4.0	3.9	4.8	5.4
82.5°	3.6	3.9	4.1	4.1	4.1	5.0	5.4
80°	3.7	4.0	4.2	4.3	4.3	5.1	5.4
77.5°	4.2	4.3	4.4	4.5	4.5	5.3	5.4
75°	4.7	4.9	4.7	4.7	4.7	5.5	5.4
72.5°	5.3	5.6	5.3	4.9	4.9	5.6	5.4
70°	6.0	6.3	6.0	5.1	5.1	5.8	5.4
67.5°	7.2	6.9	6.7	5.7	5.3	6.0	5.4
65°	8.4	7.9	7.4	6.3	5.6	6.2	5.4
62.5°	9.7	9.3	8.1	6.9	5.8	6.4	5.4
60°	11.1	10.6	8.8	7.5	6.1	6.5	5.4
57.5°	13.3	12.0	10.0	8.2	6.7	6.7	5.4
55°	15.7	13.5	11.3	8.8	7.3	6.9	5.4
52.5°	18.2	15.1	12.6	9.4	8.0	7.1	5.4
50°	20.9	17.5	13.9	10.0	8.7	7.3	5.4
47.5°	23.8	19.9	15.3	10.7	9.4	7.5	5.4
45°	27.6	22.4	16.6	11.8	10.1	7.7	5.4
42.5°	31.5	25.0	18.0	12.8	10.8	7.9	5.4
40°	35.6	27.6	19.7	14.2	11.5	8.1	5.4
37.5°	39.9	30.3	21.8	15.7	12.3	8.3	5.4
35°	44.2	33.5	23.9	17.4	13.1	8.5	5.4
32.5°	49.3	37.0	25.9	19.0	13.8	8.7	5.4
30°	55.6	40.5	27.9	20.7	14.6	8.8	5.4
27.5°	61.8	44.0	30.8	22.3	15.4	9.0	5.4
25°	68.0	47.5	33.8	24.0	16.2	9.2	5.4
22.5°	74.1	51.2	36.7	25.7	17.0	9.4	5.4
20°	80.1	55.4	39.7	27.4	17.8	9.6	5.4
17.5°	86.1	59.5	42.5	29.0	18.6	9.8	5.4
15°	91.9	63.5	45.3	30.7	19.3	9.9	5.4
12.5°	97.4	67.3	48.0	32.3	20.1	10.1	5.4
10°	102.5	70.9	50.7	33.8	20.8	10.3	5.4
7.5°	107.3	74.3	53.2	35.3	21.5	10.4	5.4
5°	111.7	77.5	55.6	36.8	22.1	10.5	5.4
2.5°	115.6	80.5	57.9	38.1	22.7	10.7	5.4
0°	119.2	83.3	60.0	39.4	23.3	10.8	5.4
-2.5°	123.4	86.8	62.7	41.5	24.6	11.3	5.4
-5°	127.2	90.0	65.2	43.5	25.8	11.8	5.4
-7.5°	130.6	93.0	67.6	45.3	26.9	12.3	5.4
-10°	133.4	95.7	69.8	47.1	28.0	12.8	5.4
-12.5°	135.9	98.2	71.8	48.7	29.1	13.3	5.4
-15°	137.8	100.4	73.6	50.2	30.0	13.7	5.4
-17.5°	139.3	102.3	75.3	51.6	30.9	14.1	5.4
-20°	140.6	103.9	76.8	52.9	31.7	14.5	5.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	141.8	105.3	78.1	54.0	32.4	14.9	5.4
-25°	142.4	106.6	79.3	54.9	33.1	15.3	5.4
-27.5°	142.4	107.7	80.2	55.7	33.6	15.6	5.4
-30°	141.7	108.4	81.0	56.4	34.0	15.9	5.4
-32.5°	140.5	108.8	81.7	56.9	34.4	16.2	5.4
-35°	140.0	108.8	82.1	57.3	34.6	16.4	5.4
-37.5°	139.8	108.8	82.2	57.4	34.8	16.6	5.4
-40°	139.0	108.7	82.2	57.5	34.8	16.8	5.4
-42.5°	137.9	108.4	82.0	57.3	34.8	17.0	5.4
-45°	136.3	107.8	81.5	57.0	34.6	17.1	5.4
-47.5°	134.2	106.8	80.9	56.5	34.4	17.2	5.4
-50°	132.5	105.5	80.0	55.9	34.0	17.3	5.4
-52.5°	130.5	104.0	78.9	55.2	33.6	17.3	5.4
-55°	128.2	102.2	77.5	54.3	33.0	17.3	5.4
-57.5°	125.5	100.1	76.0	53.3	32.4	17.3	5.4
-60°	122.4	97.7	74.2	52.1	31.7	17.2	5.4
-62.5°	119.0	95.1	72.3	50.8	31.3	17.1	5.4
-65°	115.3	92.1	70.1	49.3	30.9	17.0	5.4
-67.5°	111.2	89.0	67.8	47.8	30.5	16.8	5.4
-70°	106.8	85.6	65.3	46.0	29.9	16.7	5.4
-72.5°	102.1	82.0	62.6	44.8	29.3	16.4	5.4
-75°	97.2	78.1	59.8	43.7	28.6	16.2	5.4
-77.5°	92.0	74.1	57.7	42.5	27.8	16.0	5.4
-80°	86.5	70.8	55.7	41.1	27.0	15.7	5.4
-82.5°	82.4	67.9	53.6	39.7	26.2	15.4	5.4
-85°	78.4	64.8	51.4	38.2	25.2	15.1	5.4
-87.5°	74.2	61.6	49.0	36.6	24.3	14.7	5.4
-90°	3.6	3.6	3.6	3.6	3.6	4.5	5.4

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

