

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: P413578 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0680R-40-80-2S-VHE**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413578 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-0680R-40-80-2S-VHE
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

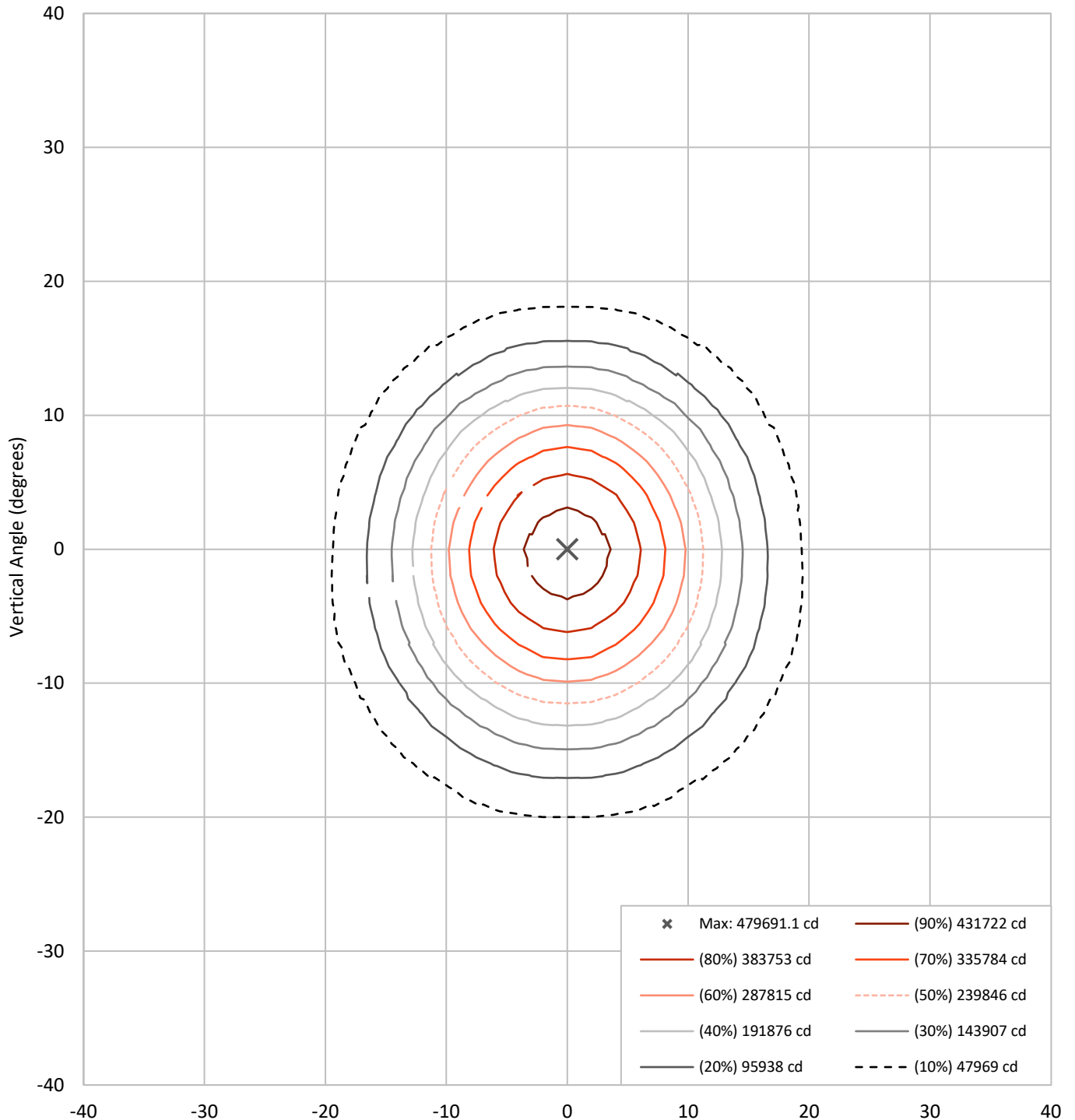
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	83842.9 lumens	Max Intensity:	479691.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	39178.4 lumens	Field Lumens:	69795.5 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 720
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





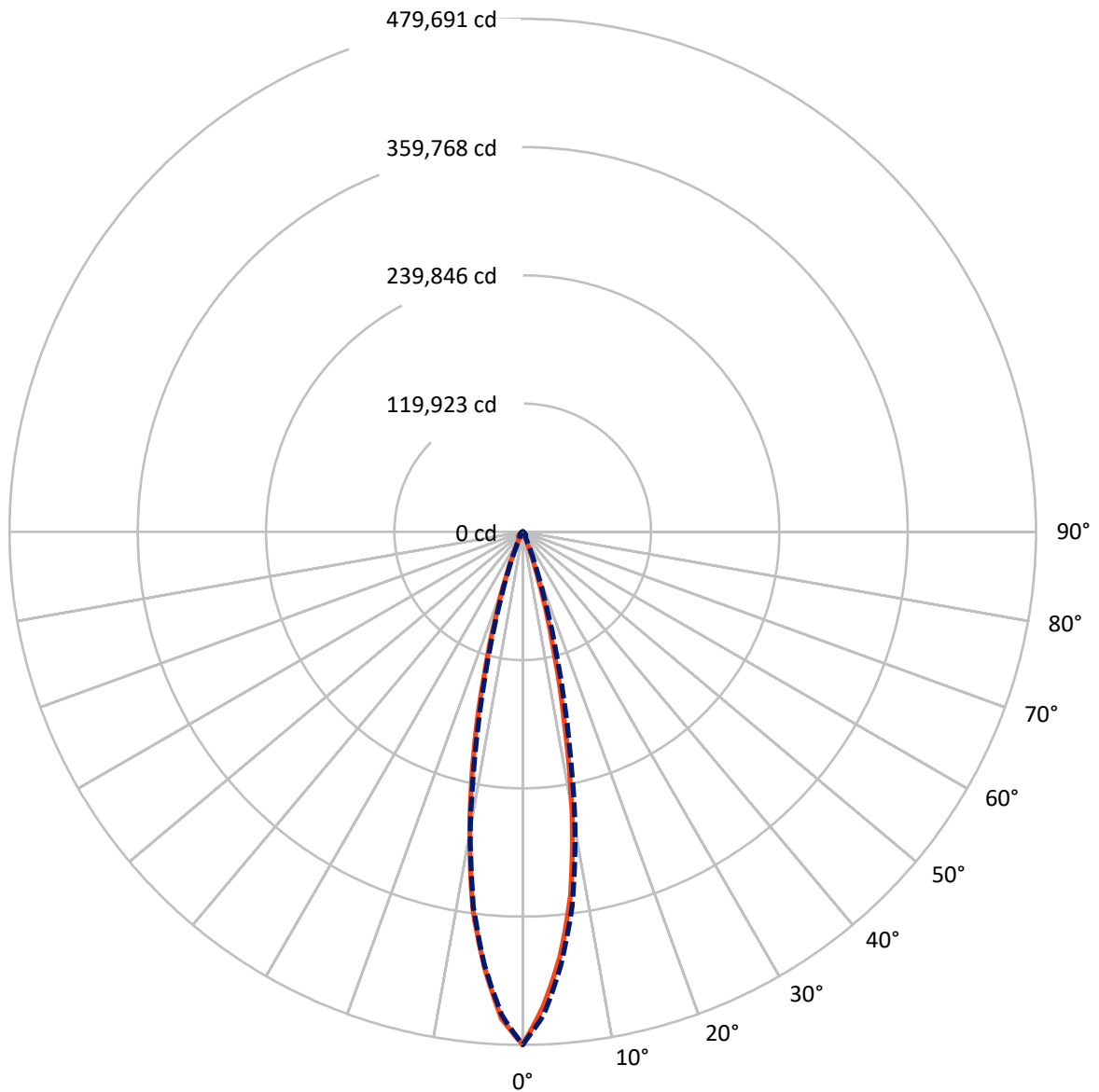
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Lumen Table

90	0.2		0.7		1.2		1.8		2.2		1.8		1.2		0.7		0.2	
80	0.2		0.1	0.2	0.6	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.6	0.2	0.1	0.2	
70	0.2		0.3	0.7	1.0	0.8	0.7	0.8	1.0	1.0	0.8	0.7	0.8	1.0	0.7	0.3	0.2	
60	0.6		1.0	2.5	5.0	8.8	14.4	22.1	26.1	26.1	22.1	14.4	8.8	5.0	2.5	1.0	0.6	
50	0.6		2.6	8.3	15.9	31.2	54.3	66.1	73.2	73.2	66.1	54.3	31.2	15.9	8.3	2.6	0.6	
40	1.7		4.5	13.7	29.1	71.2	82.9	114.3	208.9	208.9	114.3	82.9	71.2	29.1	13.7	4.5	1.7	
30	1.7		6.0	17.8	51.1	100.4	147.6	936.2	3019.6	3019.6	936.2	147.6	100.4	51.1	17.8	6.0	1.7	
20	2.4		7.2	20.6	66.7	115.1	330.0	3316.6	9970.3	9970.3	3316.6	330.0	115.1	66.7	20.6	7.2	2.4	
10	2.4		7.9	22.7	70.4	126.6	378.4	3612.0	10368.7	10368.7	3612.0	378.4	126.6	70.4	22.7	7.9	2.4	
0	2.6		8.0	23.7	67.9	133.2	216.6	1323.8	3878.0	3878.0	1323.8	216.6	133.2	67.9	23.7	8.0	2.6	
-10	2.6		7.4	23.2	51.9	125.6	172.2	239.2	478.5	478.5	239.2	172.2	125.6	51.9	23.2	7.4	2.6	
-20	2.2		6.3	20.3	40.6	87.8	154.6	181.1	190.0	190.0	181.1	154.6	87.8	40.6	20.3	6.3	2.2	
-30	2.2		4.8	15.4	32.8	52.4	80.5	122.5	153.7	153.7	122.5	80.5	52.4	32.8	15.4	4.8	2.2	
-40	1.7		3.1	9.8	21.5	36.7	49.6	59.2	65.4	65.4	59.2	49.6	36.7	21.5	9.8	3.1	1.7	
-50	1.7		2.1	4.9	10.8	18.7	26.3	33.1	37.2	37.2	33.1	26.3	18.7	10.8	4.9	2.1	1.7	
-60	1.7		2.1	4.9	10.8	18.7	26.3	33.1	37.2	37.2	33.1	26.3	18.7	10.8	4.9	2.1	1.7	
-70	1.7		2.1	4.9	10.8	18.7	26.3	33.1	37.2	37.2	33.1	26.3	18.7	10.8	4.9	2.1	1.7	
-80	1.2		7.7		18.6		31.1		38.0		31.1		18.6		7.7		1.2	
-90	1.2		7.7		18.6		31.1		38.0		31.1		18.6		7.7		1.2	

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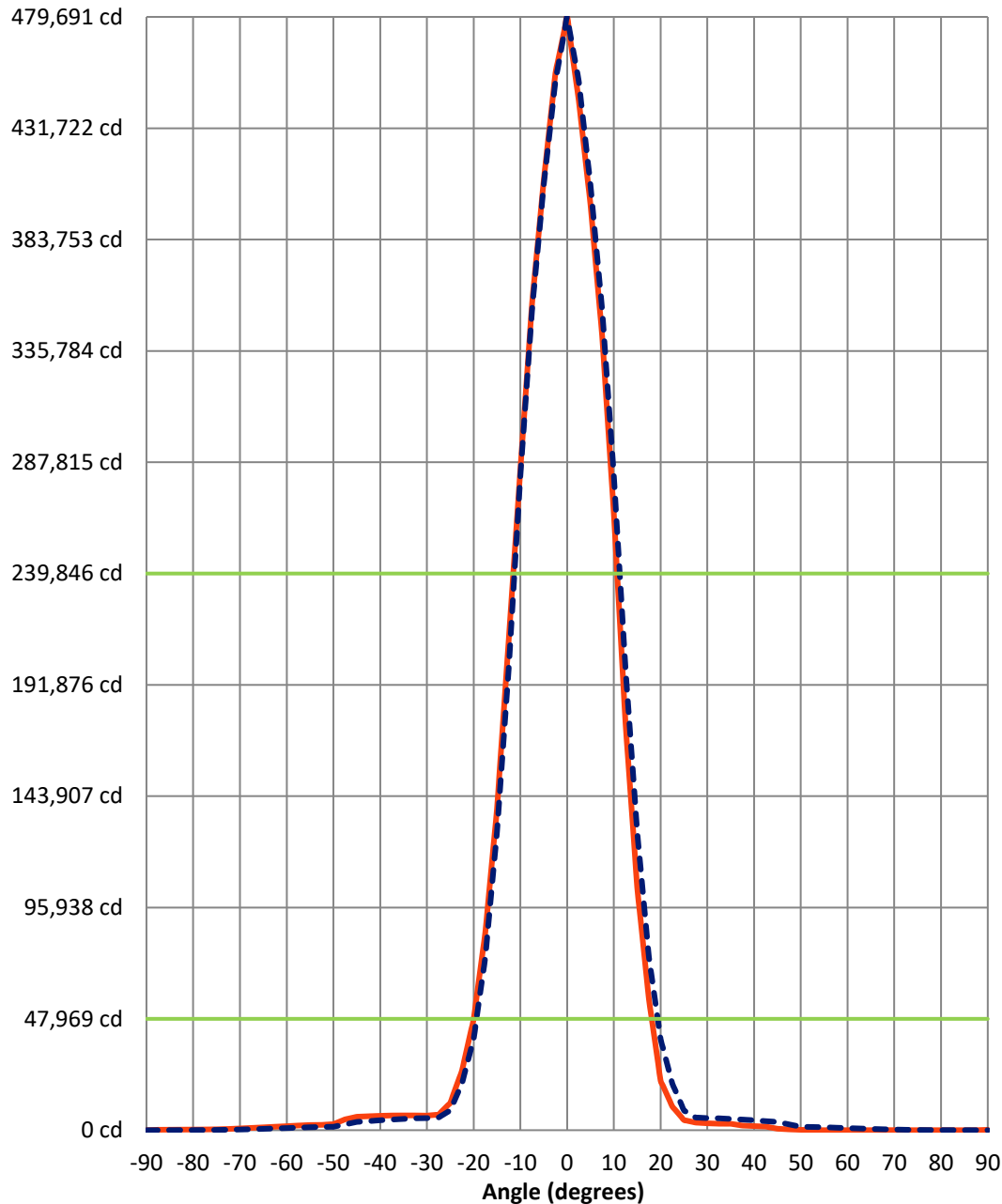
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22.5°
 V Angle: 22.2°
 Lumens: 39178.4
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 69795.5
 Efficiency: 83.2%

Spill:
 Lumens: 14047.4
 Efficiency: 16.8%

— 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°	4.9	10.2	15.6	26.9	38.2	48.0	57.8	65.1	72.4	78.3	84.2
87.5°	4.9	5.0	5.1	5.1	5.1	5.1	5.2	5.1	4.9	4.9	4.9
85°	4.9	5.2	5.2	5.3	5.2	5.3	5.4	5.2	4.9	4.9	4.9
82.5°	4.9	5.3	5.4	5.5	5.4	5.5	5.7	5.4	5.0	5.1	5.2
80°	4.9	5.4	5.6	5.7	5.6	5.8	5.9	5.7	5.6	5.7	5.6
77.5°	4.9	5.5	5.7	5.9	5.8	6.0	6.2	6.1	6.3	6.3	6.1
75°	4.9	5.7	5.9	6.1	6.0	6.3	6.4	6.5	6.8	6.8	6.5
72.5°	4.9	5.8	6.1	6.3	6.4	6.7	6.7	6.9	7.3	7.2	7.0
70°	4.9	5.9	6.3	6.5	6.7	7.0	7.1	7.4	7.7	7.6	7.5
67.5°	4.9	6.0	6.5	6.7	7.1	7.4	7.6	7.9	8.2	8.3	8.2
65°	4.9	6.2	6.7	7.0	7.4	7.9	8.2	8.5	9.2	9.1	9.1
62.5°	4.9	6.3	6.9	7.3	7.8	8.4	8.9	9.6	10.3	10.1	10.6
60°	4.9	6.4	7.1	7.5	8.1	9.0	9.5	11.0	11.6	12.1	12.3
57.5°	4.9	6.5	7.3	7.8	8.8	9.6	11.1	12.5	14.0	14.6	16.4
55°	4.9	6.7	7.6	8.0	9.4	10.3	13.0	14.4	16.8	18.1	22.0
52.5°	4.9	6.8	7.9	8.3	10.2	11.1	14.9	17.4	19.9	25.0	28.2
50°	4.9	6.9	8.3	8.5	11.0	13.2	17.0	20.7	24.3	32.4	40.3
47.5°	4.9	7.0	8.6	8.9	11.8	15.3	19.4	24.1	31.9	40.5	54.7
45°	4.9	7.2	9.0	9.5	12.7	17.5	22.5	27.7	40.2	55.0	70.4
42.5°	4.9	7.3	9.4	10.2	13.6	19.8	25.6	33.8	49.0	70.5	95.8
40°	4.9	7.4	9.9	11.2	15.0	22.1	29.0	41.8	60.4	87.1	124.5
37.5°	4.9	7.5	10.3	12.3	16.8	24.5	32.6	50.2	76.6	108.6	155.3
35°	4.9	7.6	10.8	13.5	18.6	27.3	36.4	58.8	93.6	137.4	189.8
32.5°	4.9	7.7	11.3	14.8	20.5	30.3	41.2	67.7	111.4	166.7	226.5
30°	4.9	7.8	11.7	16.0	22.3	33.3	48.5	78.0	129.8	196.2	261.4
27.5°	4.9	7.9	12.2	17.3	24.7	36.3	55.7	91.6	148.7	226.0	294.4
25°	4.9	8.1	12.8	18.7	27.1	39.2	62.7	104.5	168.6	254.2	325.8
22.5°	4.9	8.1	13.3	20.0	29.4	42.2	69.7	116.6	186.8	273.3	359.8
20°	4.9	8.2	13.8	21.4	31.6	45.4	76.4	127.9	203.5	291.0	386.2
17.5°	4.9	8.3	14.3	22.7	33.7	48.4	82.5	138.4	218.6	307.3	411.2
15°	4.9	8.4	14.8	24.0	35.8	51.4	88.0	147.6	232.0	322.0	435.3
12.5°	4.9	8.5	15.3	25.4	37.7	54.1	93.1	155.4	244.8	335.3	458.0
10°	4.9	8.6	15.8	26.6	39.6	56.8	97.6	162.4	256.9	351.7	481.5
7.5°	4.9	8.6	16.3	27.9	41.4	59.2	101.6	168.5	267.8	367.6	508.2
5°	4.9	8.7	16.8	29.1	43.0	61.5	105.2	173.6	277.3	382.1	532.7
2.5°	4.9	8.8	17.2	30.2	44.6	63.7	108.2	177.8	285.3	395.1	554.7
0°	4.9	8.8	17.6	31.3	46.0	65.6	110.7	181.1	291.7	406.2	573.7
-2.5°	4.9	9.2	18.5	32.7	48.0	68.3	114.2	187.7	300.6	417.9	583.7
-5°	4.9	9.6	19.4	34.0	49.9	70.8	117.2	193.2	307.7	427.5	590.3
-7.5°	4.9	9.9	20.3	35.2	51.7	73.1	119.6	197.5	312.8	434.8	593.9
-10°	4.9	10.3	21.1	36.3	53.3	75.2	121.4	200.5	315.9	439.6	594.5
-12.5°	4.9	10.6	21.8	37.3	54.8	77.1	122.6	202.0	316.9	441.6	593.8
-15°	4.9	10.9	22.5	38.3	56.1	78.7	123.2	202.0	314.5	438.0	589.7
-17.5°	4.9	11.2	23.2	39.1	57.3	80.0	123.2	199.9	308.7	431.9	581.0
-20°	4.9	11.5	23.8	39.9	58.3	81.1	122.7	196.1	300.9	423.1	567.4



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 CATALOG NUMBER: EPH-08-0680R-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.9	11.8	24.3	40.6	59.2	82.0	121.8	191.1	291.2	411.7	549.3
-25°	4.9	12.0	24.8	41.1	59.8	82.7	120.1	184.7	279.5	397.5	531.6
-27.5°	4.9	12.3	25.2	41.6	60.3	83.2	117.7	177.0	265.9	385.9	519.1
-30°	4.9	12.5	25.5	42.0	60.7	83.5	114.6	168.0	255.0	372.9	503.5
-32.5°	4.9	12.7	25.8	42.3	61.1	83.5	110.7	162.4	245.9	357.0	484.6
-35°	4.9	12.8	26.0	42.5	61.4	83.3	109.2	157.6	234.5	338.3	462.2
-37.5°	4.9	12.9	26.1	42.5	61.6	83.0	108.6	152.1	220.8	316.7	437.9
-40°	4.9	13.1	26.2	42.5	61.5	82.9	107.6	145.2	204.9	297.2	410.7
-42.5°	4.9	13.1	26.2	42.5	61.5	82.7	106.4	137.1	192.8	276.4	379.7
-45°	4.9	13.2	26.1	42.4	61.5	82.2	104.7	130.9	182.0	252.8	346.3
-47.5°	4.9	13.2	26.0	42.3	61.2	81.6	102.6	128.4	169.6	226.7	316.5
-50°	4.9	13.2	25.7	42.1	60.9	80.7	101.2	125.5	155.5	210.5	283.5
-52.5°	4.9	13.2	25.4	41.8	60.3	79.6	99.8	122.0	148.1	192.7	248.4
-55°	4.9	13.2	25.1	41.4	59.7	78.5	98.0	118.3	143.4	173.3	224.7
-57.5°	4.9	13.1	24.6	40.8	58.8	77.2	96.0	115.9	138.2	163.9	199.9
-60°	4.9	13.0	24.1	40.2	57.8	75.7	93.8	113.1	133.0	157.2	179.5
-62.5°	4.9	12.9	23.7	39.4	56.7	74.0	91.5	110.0	129.1	149.5	170.3
-65°	4.9	12.7	23.3	38.5	55.4	72.0	88.9	106.6	124.8	143.2	160.5
-67.5°	4.9	12.6	22.7	37.5	54.0	69.9	86.0	102.9	120.1	137.0	152.4
-70°	4.9	12.4	22.1	36.5	52.4	67.6	82.9	99.1	115.5	130.5	144.9
-72.5°	4.9	12.2	21.5	35.5	50.7	65.1	79.7	95.0	110.7	124.3	137.2
-75°	4.9	12.0	20.8	34.5	48.9	62.5	76.4	90.7	105.6	117.9	129.7
-77.5°	4.9	11.7	20.0	33.4	47.3	59.8	72.9	86.2	100.0	111.2	122.0
-80°	4.9	11.4	19.2	32.3	45.7	57.4	69.2	81.4	94.1	104.0	113.7
-82.5°	4.9	11.2	18.3	31.0	43.9	55.2	66.4	76.9	88.0	96.6	105.1
-85°	4.9	10.9	17.5	29.7	42.1	52.9	63.6	73.1	82.9	90.1	97.3
-87.5°	4.9	10.6	16.5	28.3	40.2	50.5	60.8	69.2	77.7	84.3	90.8
-90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	88.6	93.0	96.9	100.8	105.2	109.6	114.5	119.4	124.4	129.3	133.2
87.5°	4.6	4.4	4.4	4.5	4.2	3.9	3.9	3.9	3.4	2.9	2.9
85°	4.9	4.9	4.9	4.9	4.5	4.2	4.1	3.9	3.6	3.4	3.5
82.5°	5.3	5.4	5.2	4.9	4.8	4.8	4.5	4.1	4.1	4.2	4.1
80°	5.7	5.9	5.5	5.2	5.1	4.9	4.8	4.7	4.8	4.9	4.6
77.5°	6.1	6.0	5.8	5.8	5.5	5.2	5.3	5.4	5.3	5.0	4.9
75°	6.3	6.0	6.0	6.0	5.8	5.8	5.9	5.9	5.7	5.6	5.4
72.5°	6.7	6.5	6.4	6.1	6.1	6.0	5.9	5.9	6.8	8.2	9.2
70°	7.3	7.1	6.9	6.7	6.5	6.6	7.7	10.0	12.4	14.3	16.8
67.5°	7.9	7.8	7.5	7.5	8.0	9.1	10.9	17.4	23.9	26.2	27.4
65°	8.8	8.6	8.6	9.2	9.7	14.7	21.2	28.8	36.8	38.4	36.9
62.5°	9.9	10.9	10.7	12.3	16.8	22.8	31.0	39.7	48.9	46.8	39.1
60°	13.5	14.2	15.7	19.5	24.6	31.4	40.6	44.2	48.1	48.8	37.9
57.5°	18.2	20.2	23.9	27.9	34.6	38.4	39.8	39.9	45.4	45.8	34.8
55°	25.3	28.8	34.4	39.1	43.4	39.2	39.2	42.8	44.7	41.3	30.9
52.5°	36.4	40.1	48.8	52.4	50.0	46.6	45.7	48.8	47.0	42.0	35.7
50°	48.8	59.3	65.1	67.9	62.4	61.7	56.8	59.6	61.4	58.7	61.3
47.5°	68.6	81.4	86.1	90.3	85.8	90.6	85.9	99.9	100.2	134.7	138.7
45°	92.8	110.0	115.6	125.4	133.0	137.5	164.7	166.6	239.8	268.6	330.3
42.5°	121.1	143.6	163.0	167.9	214.1	236.1	274.7	345.4	412.9	471.1	504.1
40°	157.4	181.4	222.1	267.7	320.1	371.7	429.2	512.1	583.5	614.9	631.5
37.5°	197.3	243.2	297.5	373.6	451.5	510.8	579.1	657.2	704.6	721.2	725.0
35°	240.1	306.2	397.0	477.0	560.5	640.1	703.9	778.5	794.4	807.6	881.0
32.5°	292.1	369.1	476.3	566.0	650.5	741.8	806.3	850.3	875.7	924.3	1163.5
30°	344.2	434.6	540.6	636.0	734.6	821.3	882.7	925.6	954.6	1183.4	1680.3
27.5°	387.0	490.9	596.2	707.0	816.0	903.0	962.0	1001.0	1170.0	1549.3	2314.4
25°	425.9	535.1	651.9	785.6	900.2	980.7	1041.3	1079.8	1457.7	2232.3	2762.9
22.5°	462.4	577.9	714.9	868.5	984.0	1052.4	1110.5	1319.9	1892.2	2924.4	3209.8
20°	498.0	629.3	783.2	938.8	1062.5	1113.2	1174.2	1588.9	2451.0	3190.8	3503.4
17.5°	534.9	682.0	847.7	992.8	1103.4	1167.3	1265.2	1849.9	2922.7	3424.0	3650.2
15°	571.9	731.8	900.2	1040.4	1143.7	1220.4	1473.3	2223.8	3215.0	3680.4	3893.4
12.5°	608.1	775.4	939.7	1081.2	1185.9	1270.7	1663.7	2610.3	3479.1	3932.0	4213.9
10°	642.9	813.0	973.4	1120.6	1227.2	1319.6	1856.0	2988.3	3717.5	4096.1	4332.5
7.5°	673.3	843.7	1002.7	1158.4	1265.8	1367.5	2066.8	3238.9	3819.0	4200.3	4392.5
5°	699.3	868.0	1032.2	1200.5	1305.9	1411.7	2258.4	3404.2	3857.7	4264.7	4455.3
2.5°	721.2	887.5	1057.8	1240.0	1345.4	1449.1	2392.6	3509.1	3883.9	4289.3	4517.0
0°	739.1	902.6	1078.9	1274.7	1381.4	1482.2	2492.5	3559.6	3892.5	4280.1	4574.8
-2.5°	750.7	924.7	1118.0	1308.1	1410.9	1510.0	2488.3	3589.3	3903.2	4329.6	4798.6
-5°	758.6	941.9	1150.8	1336.4	1437.6	1534.4	2445.8	3567.6	3926.7	4404.7	4944.8
-7.5°	762.5	953.6	1176.0	1359.1	1462.7	1561.8	2393.2	3517.4	4047.4	4559.3	5036.6
-10°	763.8	960.4	1181.1	1370.1	1486.1	1588.8	2306.6	3411.9	4142.7	4624.0	5063.2
-12.5°	768.9	963.7	1178.4	1374.6	1506.0	1613.5	2199.5	3342.1	4270.7	4663.9	5053.5
-15°	768.4	962.5	1170.5	1373.3	1530.3	1646.4	2057.0	3177.3	4348.8	4672.9	5027.5
-17.5°	761.9	956.9	1158.5	1368.6	1553.4	1671.0	1856.1	2838.1	4125.8	4633.3	4996.7
-20°	749.1	944.9	1141.6	1353.7	1566.2	1693.9	1832.1	2541.1	3666.8	4528.5	4938.8



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	730.8	927.4	1120.8	1328.9	1560.1	1719.7	1848.8	2252.1	3213.3	4373.2	4844.9
-25°	709.3	902.8	1096.9	1315.4	1551.1	1744.5	1852.4	1983.7	2818.9	3859.0	4683.0
-27.5°	685.6	872.5	1070.6	1286.9	1537.1	1740.0	1850.9	1974.9	2398.8	3226.5	4425.3
-30°	658.0	838.4	1034.2	1245.5	1487.6	1693.2	1846.5	1949.1	2078.6	2730.4	3752.8
-32.5°	627.6	799.9	990.9	1198.6	1423.8	1640.9	1821.0	1928.4	2042.0	2265.2	3089.4
-35°	597.7	762.7	943.2	1144.7	1358.7	1569.8	1754.1	1906.6	2002.1	2127.6	2503.7
-37.5°	570.1	721.1	890.8	1085.7	1292.7	1481.6	1681.0	1846.2	1976.9	2067.9	2220.0
-40°	538.0	674.5	837.2	1019.6	1205.7	1385.5	1575.1	1760.9	1921.4	2041.2	2131.9
-42.5°	502.0	632.4	779.6	941.7	1113.6	1284.8	1464.0	1648.1	1824.2	1982.2	2094.6
-45°	462.9	585.4	717.9	865.0	1017.6	1180.8	1351.4	1525.6	1700.5	1874.7	2013.3
-47.5°	417.7	533.7	659.4	783.1	923.9	1073.7	1232.4	1396.2	1557.9	1726.0	1885.7
-50°	370.6	477.9	592.7	706.9	829.0	964.5	1109.7	1262.8	1416.1	1571.4	1725.2
-52.5°	328.0	417.1	522.9	630.5	738.4	854.2	985.7	1125.3	1269.9	1416.4	1551.0
-55°	282.5	362.7	449.6	550.4	651.6	752.3	859.1	985.5	1116.6	1252.4	1373.1
-57.5°	247.4	307.8	382.8	466.1	560.3	655.5	749.3	844.2	961.3	1082.1	1183.6
-60°	218.3	261.9	319.3	389.8	464.8	552.9	640.9	729.1	819.7	906.2	999.9
-62.5°	191.7	227.2	267.6	316.8	381.9	450.0	528.3	609.4	692.4	766.9	835.8
-65°	180.2	197.2	227.5	264.3	301.6	359.8	422.5	486.4	558.4	624.4	686.5
-67.5°	168.1	183.8	199.6	219.0	252.5	286.9	321.5	377.9	434.3	485.4	536.0
-70°	158.4	170.5	184.4	198.6	213.1	232.9	263.7	295.6	327.5	362.8	405.6
-72.5°	148.9	159.7	170.9	181.9	194.8	208.4	222.6	237.0	259.1	286.2	310.7
-75°	139.7	148.8	158.7	168.9	179.1	189.4	200.9	214.3	227.5	240.6	253.0
-77.5°	130.9	139.2	147.5	156.0	164.8	174.0	184.1	194.6	205.5	216.3	225.9
-80°	121.6	129.4	136.5	143.8	151.7	159.6	168.1	176.7	186.3	196.2	204.8
-82.5°	111.6	118.0	124.6	131.1	138.3	145.6	152.8	160.0	167.9	175.9	183.0
-85°	102.0	106.6	112.2	117.9	124.3	130.8	136.9	143.0	149.9	156.7	162.3
-87.5°	95.4	99.8	104.2	108.7	113.8	119.0	124.0	129.0	134.8	140.5	144.8
-90°	4.4	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	137.0	140.0	142.9	144.4	145.8	148.8	151.7	156.1	160.5	165.4	170.3
87.5°	2.9	2.9	2.9	2.8	2.8	2.4	2.0	2.0	2.0	2.0	2.0
85°	3.5	3.6	3.6	3.3	2.9	2.8	2.8	2.8	2.8	2.4	2.0
82.5°	3.9	3.9	3.9	3.7	3.6	3.3	2.9	2.9	2.9	2.9	2.9
80°	4.2	4.1	3.9	3.9	3.9	3.8	3.7	3.3	2.9	3.3	3.8
77.5°	4.9	4.6	4.3	4.2	4.0	3.7	3.3	3.0	2.9	3.0	3.0
75°	5.1	5.2	5.8	6.0	5.8	5.3	4.5	4.3	4.5	4.3	3.9
72.5°	10.0	10.5	10.8	11.7	12.2	12.8	13.9	15.8	18.0	20.1	22.1
70°	20.1	22.8	23.5	23.5	23.4	24.1	25.2	26.4	27.9	29.2	30.3
67.5°	30.8	33.3	33.6	34.2	33.2	31.8	30.5	30.5	32.3	34.3	36.6
65°	37.6	35.1	33.3	32.9	32.2	30.6	28.0	26.1	25.7	25.3	25.4
62.5°	33.8	28.9	27.2	26.8	25.3	23.4	20.0	17.1	15.7	14.9	15.1
60°	29.3	23.5	20.0	18.5	16.2	13.8	11.7	9.5	8.8	8.5	8.7
57.5°	24.1	18.0	13.9	13.3	11.4	9.1	7.4	5.9	5.6	5.6	6.0
55°	22.1	18.8	15.7	14.7	12.6	11.6	10.0	7.9	7.4	8.0	8.7
52.5°	28.7	26.9	25.4	25.5	28.2	26.1	19.5	27.3	31.7	31.8	30.3
50°	62.9	56.5	80.7	77.6	97.0	110.0	99.9	112.1	129.7	142.0	150.6
47.5°	179.4	186.1	214.9	240.0	260.2	282.8	305.7	319.5	323.1	345.9	361.6
45°	361.3	383.1	415.2	431.5	463.2	500.8	527.1	539.0	608.2	694.2	749.8
42.5°	524.4	541.2	566.4	623.8	681.9	810.6	958.3	963.4	1096.9	1215.0	1335.9
40°	638.5	670.0	759.9	896.0	1210.0	1455.0	1629.3	1800.2	1828.7	1773.2	1803.5
37.5°	786.1	898.6	1126.5	1493.5	1765.2	2011.2	2110.3	2123.2	2157.7	2179.4	2145.0
35°	1064.4	1439.2	1628.2	1940.2	2137.8	2185.8	2215.8	2245.3	2273.6	2292.9	2314.0
32.5°	1673.9	2138.1	2163.1	2243.3	2280.2	2322.8	2354.6	2373.0	2385.9	2402.9	2460.2
30°	2329.0	2437.2	2446.1	2439.7	2452.4	2481.1	2501.8	2535.7	2569.4	2608.2	2735.3
27.5°	2634.9	2717.7	2692.0	2647.7	2625.8	2648.6	2705.2	2757.8	2855.8	2958.9	3141.3
25°	2973.5	3028.4	2996.9	2918.4	2869.3	2901.7	2986.7	3087.1	3274.3	3439.6	3775.2
22.5°	3336.1	3438.1	3405.1	3381.8	3278.3	3293.8	3360.8	3587.3	4055.9	4797.7	6338.2
20°	3617.4	3742.0	3757.9	3758.4	3736.6	3743.0	3898.7	4629.1	5999.1	10304.3	14120.8
17.5°	3825.9	3899.0	3986.9	4022.9	4065.5	4190.1	5020.7	7547.6	13464.1	21382.4	27445.9
15°	4096.1	4189.7	4284.9	4345.1	4441.5	5126.6	7250.6	15011.2	25770.0	39209.5	56387.6
12.5°	4312.4	4427.8	4503.4	4551.0	4773.6	6575.8	13965.4	25137.4	41923.9	62778.7	93716.0
10°	4432.2	4522.1	4625.2	4790.5	5697.5	9538.3	19694.2	35324.5	61129.0	98693.8	139899.4
7.5°	4491.8	4608.2	4780.5	5031.7	6743.5	13924.2	27398.3	49860.6	85105.9	131881.4	189295.1
5°	4561.2	4776.3	4981.4	5268.9	7555.7	17091.0	33522.3	62258.3	106011.1	163232.0	234138.2
2.5°	4673.3	4996.9	5129.0	5405.3	8045.1	19129.6	37174.2	71955.0	121621.6	188814.9	268424.1
0°	4850.0	5119.2	5198.4	5476.5	8537.8	20137.8	39319.4	74613.9	128575.1	198777.7	281927.6
-2.5°	5049.7	5217.8	5305.6	5615.5	8785.1	21166.6	41007.0	76400.6	126919.1	195458.9	276854.5
-5°	5179.8	5313.4	5398.5	5701.4	8758.0	20137.9	39121.3	71147.7	117237.2	178540.4	251313.7
-7.5°	5268.5	5407.5	5496.6	5774.2	8240.3	17403.2	34553.8	61328.4	99631.4	149908.0	212765.8
-10°	5355.1	5506.8	5623.7	5843.0	7293.3	13285.6	27120.9	46267.8	77918.0	117920.7	164917.6
-12.5°	5433.2	5620.7	5771.0	5872.0	6403.7	10105.1	19930.6	35389.8	56084.7	85946.1	120337.1
-15°	5472.7	5697.0	5865.3	5976.6	6284.9	7990.2	12906.1	23418.0	39156.0	57678.4	80056.7
-17.5°	5404.6	5739.2	5901.1	6023.6	6125.0	6563.3	9103.8	14374.8	24204.5	36338.2	47270.0
-20°	5296.3	5743.9	5927.1	6092.1	6207.4	6326.8	6650.5	9154.4	13153.3	20597.3	27883.1



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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°	5204.7	5620.9	6003.5	6181.7	6314.4	6323.2	6333.2	6634.6	8195.9	10704.0	14558.1
-25°	5141.2	5535.0	5980.3	6256.4	6348.2	6351.5	6301.4	6245.4	6422.4	6600.4	8008.7
-27.5°	5033.8	5461.0	5879.4	6216.2	6352.3	6347.6	6309.6	6272.2	6210.9	6170.9	6322.8
-30°	4902.4	5331.6	5721.2	6059.8	6261.6	6323.6	6297.7	6269.9	6250.9	6237.7	6210.4
-32.5°	4202.1	5172.8	5501.0	5808.2	6096.2	6222.3	6278.5	6265.4	6248.4	6241.2	6246.0
-35°	3432.4	4434.5	5286.8	5505.8	5755.6	6006.6	6183.7	6223.7	6241.5	6238.4	6246.1
-37.5°	2631.8	3534.6	4371.9	5071.9	5372.7	5633.6	5891.0	6061.5	6163.9	6181.5	6205.6
-40°	2268.2	2523.5	3316.7	4020.2	4605.4	5144.2	5416.7	5711.4	5941.3	6033.9	6082.5
-42.5°	2172.2	2273.6	2377.8	2893.7	3499.6	4013.2	4522.0	5027.8	5447.6	5685.1	5839.6
-45°	2130.3	2186.9	2247.0	2330.0	2404.3	2838.2	3305.4	3798.3	4350.0	4762.1	5146.0
-47.5°	2008.3	2122.1	2179.6	2214.8	2241.0	2298.3	2349.5	2488.4	2947.6	3308.6	3709.2
-50°	1847.0	1962.7	2056.6	2140.1	2168.7	2181.9	2197.2	2243.4	2316.7	2370.1	2450.7
-52.5°	1660.2	1768.9	1873.5	1962.9	2026.7	2081.7	2134.2	2170.6	2200.3	2231.1	2260.3
-55°	1481.7	1574.2	1663.9	1747.8	1824.0	1887.4	1949.9	2009.2	2065.0	2117.4	2166.3
-57.5°	1285.9	1378.3	1460.7	1536.0	1600.9	1653.9	1715.5	1781.0	1842.3	1896.8	1949.8
-60°	1088.3	1172.4	1251.2	1322.5	1381.9	1428.6	1488.5	1547.2	1603.3	1653.9	1698.4
-62.5°	902.5	974.3	1042.2	1105.1	1161.4	1211.6	1261.8	1312.1	1365.0	1412.5	1454.3
-65°	745.5	802.8	851.1	896.0	933.8	979.1	1027.4	1072.5	1119.1	1163.0	1203.0
-67.5°	587.7	636.3	676.9	715.6	747.2	779.1	815.0	849.3	882.3	916.4	949.7
-70°	443.5	477.7	503.3	529.9	561.0	590.1	619.0	648.1	675.5	705.6	736.6
-72.5°	331.0	347.6	364.4	386.0	404.6	425.6	446.4	468.8	491.5	513.3	533.6
-75°	265.0	275.6	288.3	298.8	306.8	317.1	328.6	342.7	356.8	370.9	384.3
-77.5°	235.7	243.0	248.8	253.3	257.3	262.5	267.8	277.7	288.3	300.1	312.1
-80°	213.0	217.7	221.8	225.1	228.1	232.5	236.8	245.4	254.5	263.3	271.9
-82.5°	190.1	194.0	197.3	200.2	203.0	207.1	211.2	218.1	225.0	233.6	242.1
-85°	167.8	171.2	174.5	177.1	179.6	182.8	186.0	192.4	198.8	205.7	212.6
-87.5°	149.0	151.9	154.8	157.0	159.1	161.9	164.6	169.7	174.7	180.3	185.8
-90°	2.9	2.9	2.9	2.5	2.0	2.0	2.0	2.0	2.0	1.5	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°	170.9	171.4	171.4	171.4	171.4	171.4	170.9	170.3	165.4	160.5	156.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.8	2.8
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.3	2.9	3.3
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	2.9	3.0
75°	3.4	2.9	2.9	2.9	2.9	2.9	3.4	3.9	4.3	4.5	4.3
72.5°	24.0	25.8	26.8	27.4	26.8	25.8	24.0	22.1	20.1	18.0	15.8
70°	30.9	31.1	31.3	31.3	31.3	31.1	30.9	30.3	29.2	27.9	26.4
67.5°	38.0	38.8	39.1	39.2	39.1	38.8	38.0	36.6	34.3	32.3	30.5
65°	24.2	22.4	20.8	19.5	20.8	22.4	24.2	25.4	25.3	25.7	26.1
62.5°	14.7	14.2	13.9	13.8	13.9	14.2	14.7	15.1	14.9	15.7	17.1
60°	8.8	8.9	8.5	7.9	8.5	8.9	8.8	8.7	8.5	8.8	9.5
57.5°	6.4	6.7	7.3	7.9	7.3	6.7	6.4	6.0	5.6	5.6	5.9
55°	9.4	10.3	11.1	11.8	11.1	10.3	9.4	8.7	8.0	7.4	7.9
52.5°	27.3	24.5	23.7	24.5	23.7	24.5	27.3	30.3	31.8	31.7	27.3
50°	155.0	158.1	161.9	166.4	161.9	158.1	155.0	150.6	142.0	129.7	112.1
47.5°	366.1	359.1	352.6	350.5	352.6	359.1	366.1	361.6	345.9	323.1	319.5
45°	694.0	643.0	617.0	632.4	617.0	643.0	694.0	749.8	694.2	608.2	539.0
42.5°	1400.7	1476.3	1535.4	1563.4	1535.4	1476.3	1400.7	1335.9	1215.0	1096.9	963.4
40°	1756.1	1727.7	1742.9	1766.1	1742.9	1727.7	1756.1	1803.5	1773.2	1828.7	1800.2
37.5°	2161.8	2171.2	2103.0	1991.3	2103.0	2171.2	2161.8	2145.0	2179.4	2157.7	2123.2
35°	2358.6	2480.3	2708.1	2762.8	2708.1	2480.3	2358.6	2314.0	2292.9	2273.6	2245.3
32.5°	2604.9	2731.2	2769.9	2785.2	2769.9	2731.2	2604.9	2460.2	2402.9	2385.9	2373.0
30°	2899.4	2956.4	2942.0	2963.4	2942.0	2956.4	2899.4	2735.3	2608.2	2569.4	2535.7
27.5°	3221.9	3255.2	3244.4	3272.7	3244.4	3255.2	3221.9	3141.3	2958.9	2855.8	2757.8
25°	4054.5	4317.6	4303.9	4365.4	4303.9	4317.6	4054.5	3775.2	3439.6	3274.3	3087.1
22.5°	8213.4	9143.4	9700.3	10239.3	9700.3	9143.4	8213.4	6338.2	4797.7	4055.9	3587.3
20°	18351.8	21031.9	21615.3	21402.8	21615.3	21031.9	18351.8	14120.8	10304.3	5999.1	4629.1
17.5°	39392.8	50086.1	55827.8	56466.4	55827.8	50086.1	39392.8	27445.9	21382.4	13464.1	7547.6
15°	74134.7	92824.2	103435.7	104550.6	103435.7	92824.2	74134.7	56387.6	39209.5	25770.0	15011.2
12.5°	121192.3	150955.4	172805.1	175242.8	172805.1	150955.4	121192.3	93716.0	62778.7	41923.9	25137.4
10°	185650.4	225890.0	257710.0	265461.9	257710.0	225890.0	185650.4	139899.4	98693.8	61129.0	35324.5
7.5°	249986.0	295907.6	333357.6	342169.0	333357.6	295907.6	249986.0	189295.1	131881.4	85105.9	49860.6
5°	300279.3	359035.0	388920.8	398794.9	388920.8	359035.0	300279.3	234138.2	163232.0	106011.1	62258.3
2.5°	338615.2	394094.7	429179.7	443574.6	429179.7	394094.7	338615.2	268424.1	188814.9	121621.6	71955.0
0°	353413.6	407229.0	451907.8	479691.1	451907.8	407229.0	353413.6	281927.6	198777.7	128575.1	74613.9
-2.5°	347612.9	399427.7	437399.3	455421.9	437399.3	399427.7	347612.9	276854.5	195458.9	126919.1	76400.6
-5°	318288.1	370578.6	399937.2	409236.9	399937.2	370578.6	318288.1	251313.7	178540.4	117237.2	71147.7
-7.5°	269146.2	315173.5	349985.0	356224.9	349985.0	315173.5	269146.2	212765.8	149908.0	99631.4	61328.4
-10°	213314.7	253159.4	279715.9	284739.2	279715.9	253159.4	213314.7	164917.6	117920.7	77918.0	46267.8
-12.5°	151208.3	186207.6	207204.0	211078.3	207204.0	186207.6	151208.3	120337.1	85946.1	56084.7	35389.8
-15°	102753.6	124554.0	137279.7	138564.7	137279.7	124554.0	102753.6	80056.7	57678.4	39156.0	23418.0
-17.5°	64293.0	77260.4	85191.9	85265.5	85191.9	77260.4	64293.0	47270.0	36338.2	24204.5	14374.8
-20°	37221.9	43409.8	47847.3	47828.8	47847.3	43409.8	37221.9	27883.1	20597.3	13153.3	9154.4



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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°	19393.1	23070.9	25746.5	25624.2	25746.5	23070.9	19393.1	14558.1	10704.0	8195.9	6634.6
-25°	9522.9	10930.9	11868.0	11795.0	11868.0	10930.9	9522.9	8008.7	6600.4	6422.4	6245.4
-27.5°	6453.6	6608.5	6715.5	6726.6	6715.5	6608.5	6453.6	6322.8	6170.9	6210.9	6272.2
-30°	6199.9	6235.3	6272.7	6282.2	6272.7	6235.3	6199.9	6210.4	6237.7	6250.9	6269.9
-32.5°	6261.2	6288.8	6329.7	6355.7	6329.7	6288.8	6261.2	6246.0	6241.2	6248.4	6265.4
-35°	6265.6	6297.7	6345.1	6366.4	6345.1	6297.7	6265.6	6246.1	6238.4	6241.5	6223.7
-37.5°	6236.4	6275.7	6316.4	6335.1	6316.4	6275.7	6236.4	6205.6	6181.5	6163.9	6061.5
-40°	6125.8	6165.9	6195.7	6198.0	6195.7	6165.9	6125.8	6082.5	6033.9	5941.3	5711.4
-42.5°	5942.6	5992.2	6015.1	6011.0	6015.1	5992.2	5942.6	5839.6	5685.1	5447.6	5027.8
-45°	5510.0	5686.1	5772.6	5793.7	5772.6	5686.1	5510.0	5146.0	4762.1	4350.0	3798.3
-47.5°	4173.4	4431.6	4597.1	4662.9	4597.1	4431.6	4173.4	3709.2	3308.6	2947.6	2488.4
-50°	2556.2	2580.2	2596.0	2604.1	2596.0	2580.2	2556.2	2450.7	2370.1	2316.7	2243.4
-52.5°	2284.6	2291.5	2295.2	2295.7	2295.2	2291.5	2284.6	2260.3	2231.1	2200.3	2170.6
-55°	2201.6	2215.4	2224.0	2226.2	2224.0	2215.4	2201.6	2166.3	2117.4	2065.0	2009.2
-57.5°	1984.8	1992.7	2001.5	2007.0	2001.5	1992.7	1984.8	1949.8	1896.8	1842.3	1781.0
-60°	1725.1	1732.3	1733.7	1728.9	1733.7	1732.3	1725.1	1698.4	1653.9	1603.3	1547.2
-62.5°	1477.2	1483.9	1490.5	1493.0	1490.5	1483.9	1477.2	1454.3	1412.5	1365.0	1312.1
-65°	1221.7	1225.1	1226.7	1223.8	1226.7	1225.1	1221.7	1203.0	1163.0	1119.1	1072.5
-67.5°	965.4	972.1	981.5	987.8	981.5	972.1	965.4	949.7	916.4	882.3	849.3
-70°	743.7	740.7	747.0	751.9	747.0	740.7	743.7	736.6	705.6	675.5	648.1
-72.5°	536.2	532.9	530.7	526.7	530.7	532.9	536.2	533.6	513.3	491.5	468.8
-75°	383.5	379.6	379.0	377.9	379.0	379.6	383.5	384.3	370.9	356.8	342.7
-77.5°	312.2	310.7	308.7	306.4	308.7	310.7	312.2	312.1	300.1	288.3	277.7
-80°	272.6	272.7	271.6	270.2	271.6	272.7	272.6	271.9	263.3	254.5	245.4
-82.5°	242.5	242.5	241.8	240.9	241.8	242.5	242.5	242.1	233.6	225.0	218.1
-85°	213.0	213.3	212.5	211.5	212.5	213.3	213.0	212.6	205.7	198.8	192.4
-87.5°	186.4	186.9	186.5	186.1	186.5	186.9	186.4	185.8	180.3	174.7	169.7
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	151.7	148.8	145.8	144.4	142.9	140.0	137.0	133.2	129.3	124.4	119.4
87.5°	2.0	2.4	2.8	2.8	2.9	2.9	2.9	2.9	2.9	3.4	3.9
85°	2.8	2.8	2.9	3.3	3.6	3.6	3.5	3.5	3.4	3.6	3.9
82.5°	2.9	3.3	3.6	3.7	3.9	3.9	3.9	4.1	4.2	4.1	4.1
80°	3.7	3.8	3.9	3.9	3.9	4.1	4.2	4.6	4.9	4.8	4.7
77.5°	3.3	3.7	4.0	4.2	4.3	4.6	4.9	4.9	5.0	5.3	5.4
75°	4.5	5.3	5.8	6.0	5.8	5.2	5.1	5.4	5.6	5.7	5.9
72.5°	13.9	12.8	12.2	11.7	10.8	10.5	10.0	9.2	8.2	6.8	5.9
70°	25.2	24.1	23.4	23.5	23.5	22.8	20.1	16.8	14.3	12.4	10.0
67.5°	30.5	31.8	33.2	34.2	33.6	33.3	30.8	27.4	26.2	23.9	17.4
65°	28.0	30.6	32.2	32.9	33.3	35.1	37.6	36.9	38.4	36.8	28.8
62.5°	20.0	23.4	25.3	26.8	27.2	28.9	33.8	39.1	46.8	48.9	39.7
60°	11.7	13.8	16.2	18.5	20.0	23.5	29.3	37.9	48.8	48.1	44.2
57.5°	7.4	9.1	11.4	13.3	13.9	18.0	24.1	34.8	45.8	45.4	39.9
55°	10.0	11.6	12.6	14.7	15.7	18.8	22.1	30.9	41.3	44.7	42.8
52.5°	19.5	26.1	28.2	25.5	25.4	26.9	28.7	35.7	42.0	47.0	48.8
50°	99.9	110.0	97.0	77.6	80.7	56.5	62.9	61.3	58.7	61.4	59.6
47.5°	305.7	282.8	260.2	240.0	214.9	186.1	179.4	138.7	134.7	100.2	99.9
45°	527.1	500.8	463.2	431.5	415.2	383.1	361.3	330.3	268.6	239.8	166.6
42.5°	958.3	810.6	681.9	623.8	566.4	541.2	524.4	504.1	471.1	412.9	345.4
40°	1629.3	1455.0	1210.0	896.0	759.9	670.0	638.5	631.5	614.9	583.5	512.1
37.5°	2110.3	2011.2	1765.2	1493.5	1126.5	898.6	786.1	725.0	721.2	704.6	657.2
35°	2215.8	2185.8	2137.8	1940.2	1628.2	1439.2	1064.4	881.0	807.6	794.4	778.5
32.5°	2354.6	2322.8	2280.2	2243.3	2163.1	2138.1	1673.9	1163.5	924.3	875.7	850.3
30°	2501.8	2481.1	2452.4	2439.7	2446.1	2437.2	2329.0	1680.3	1183.4	954.6	925.6
27.5°	2705.2	2648.6	2625.8	2647.7	2692.0	2717.7	2634.9	2314.4	1549.3	1170.0	1001.0
25°	2986.7	2901.7	2869.3	2918.4	2996.9	3028.4	2973.5	2762.9	2232.3	1457.7	1079.8
22.5°	3360.8	3293.8	3278.3	3381.8	3405.1	3438.1	3336.1	3209.8	2924.4	1892.2	1319.9
20°	3898.7	3743.0	3736.6	3758.4	3757.9	3742.0	3617.4	3503.4	3190.8	2451.0	1588.9
17.5°	5020.7	4190.1	4065.5	4022.9	3986.9	3899.0	3825.9	3650.2	3424.0	2922.7	1849.9
15°	7250.6	5126.6	4441.5	4345.1	4284.9	4189.7	4096.1	3893.4	3680.4	3215.0	2223.8
12.5°	13965.4	6575.8	4773.6	4551.0	4503.4	4427.8	4312.4	4213.9	3932.0	3479.1	2610.3
10°	19694.2	9538.3	5697.5	4790.5	4625.2	4522.1	4432.2	4332.5	4096.1	3717.5	2988.3
7.5°	27398.3	13924.2	6743.5	5031.7	4780.5	4608.2	4491.8	4392.5	4200.3	3819.0	3238.9
5°	33522.3	17091.0	7555.7	5268.9	4981.4	4776.3	4561.2	4455.3	4264.7	3857.7	3404.2
2.5°	37174.2	19129.6	8045.1	5405.3	5129.0	4996.9	4673.3	4517.0	4289.3	3883.9	3509.1
0°	39319.4	20137.8	8537.8	5476.5	5198.4	5119.2	4850.0	4574.8	4280.1	3892.5	3559.6
-2.5°	41007.0	21166.6	8785.1	5615.5	5305.6	5217.8	5049.7	4798.6	4329.6	3903.2	3589.3
-5°	39121.3	20137.9	8758.0	5701.4	5398.5	5313.4	5179.8	4944.8	4404.7	3926.7	3567.6
-7.5°	34553.8	17403.2	8240.3	5774.2	5496.6	5407.5	5268.5	5036.6	4559.3	4047.4	3517.4
-10°	27120.9	13285.6	7293.3	5843.0	5623.7	5506.8	5355.1	5063.2	4624.0	4142.7	3411.9
-12.5°	19930.6	10105.1	6403.7	5872.0	5771.0	5620.7	5433.2	5053.5	4663.9	4270.7	3342.1
-15°	12906.1	7990.2	6284.9	5976.6	5865.3	5697.0	5472.7	5027.5	4672.9	4348.8	3177.3
-17.5°	9103.8	6563.3	6125.0	6023.6	5901.1	5739.2	5404.6	4996.7	4633.3	4125.8	2838.1
-20°	6650.5	6326.8	6207.4	6092.1	5927.1	5743.9	5296.3	4938.8	4528.5	3666.8	2541.1



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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°	6333.2	6323.2	6314.4	6181.7	6003.5	5620.9	5204.7	4844.9	4373.2	3213.3	2252.1
-25°	6301.4	6351.5	6348.2	6256.4	5980.3	5535.0	5141.2	4683.0	3859.0	2818.9	1983.7
-27.5°	6309.6	6347.6	6352.3	6216.2	5879.4	5461.0	5033.8	4425.3	3226.5	2398.8	1974.9
-30°	6297.7	6323.6	6261.6	6059.8	5721.2	5331.6	4902.4	3752.8	2730.4	2078.6	1949.1
-32.5°	6278.5	6222.3	6096.2	5808.2	5501.0	5172.8	4202.1	3089.4	2265.2	2042.0	1928.4
-35°	6183.7	6006.6	5755.6	5505.8	5286.8	4434.5	3432.4	2503.7	2127.6	2002.1	1906.6
-37.5°	5891.0	5633.6	5372.7	5071.9	4371.9	3534.6	2631.8	2220.0	2067.9	1976.9	1846.2
-40°	5416.7	5144.2	4605.4	4020.2	3316.7	2523.5	2268.2	2131.9	2041.2	1921.4	1760.9
-42.5°	4522.0	4013.2	3499.6	2893.7	2377.8	2273.6	2172.2	2094.6	1982.2	1824.2	1648.1
-45°	3305.4	2838.2	2404.3	2330.0	2247.0	2186.9	2130.3	2013.3	1874.7	1700.5	1525.6
-47.5°	2349.5	2298.3	2241.0	2214.8	2179.6	2122.1	2008.3	1885.7	1726.0	1557.9	1396.2
-50°	2197.2	2181.9	2168.7	2140.1	2056.6	1962.7	1847.0	1725.2	1571.4	1416.1	1262.8
-52.5°	2134.2	2081.7	2026.7	1962.9	1873.5	1768.9	1660.2	1551.0	1416.4	1269.9	1125.3
-55°	1949.9	1887.4	1824.0	1747.8	1663.9	1574.2	1481.7	1373.1	1252.4	1116.6	985.5
-57.5°	1715.5	1653.9	1600.9	1536.0	1460.7	1378.3	1285.9	1183.6	1082.1	961.3	844.2
-60°	1488.5	1428.6	1381.9	1322.5	1251.2	1172.4	1088.3	999.9	906.2	819.7	729.1
-62.5°	1261.8	1211.6	1161.4	1105.1	1042.2	974.3	902.5	835.8	766.9	692.4	609.4
-65°	1027.4	979.1	933.8	896.0	851.1	802.8	745.5	686.5	624.4	558.4	486.4
-67.5°	815.0	779.1	747.2	715.6	676.9	636.3	587.7	536.0	485.4	434.3	377.9
-70°	619.0	590.1	561.0	529.9	503.3	477.7	443.5	405.6	362.8	327.5	295.6
-72.5°	446.4	425.6	404.6	386.0	364.4	347.6	331.0	310.7	286.2	259.1	237.0
-75°	328.6	317.1	306.8	298.8	288.3	275.6	265.0	253.0	240.6	227.5	214.3
-77.5°	267.8	262.5	257.3	253.3	248.8	243.0	235.7	225.9	216.3	205.5	194.6
-80°	236.8	232.5	228.1	225.1	221.8	217.7	213.0	204.8	196.2	186.3	176.7
-82.5°	211.2	207.1	203.0	200.2	197.3	194.0	190.1	183.0	175.9	167.9	160.0
-85°	186.0	182.8	179.6	177.1	174.5	171.2	167.8	162.3	156.7	149.9	143.0
-87.5°	164.6	161.9	159.1	157.0	154.8	151.9	149.0	144.8	140.5	134.8	129.0
-90°	2.0	2.0	2.0	2.5	2.9	2.9	2.9	2.9	2.9	3.4	3.9



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	114.5	109.6	105.2	100.8	96.9	93.0	88.6	84.2	78.3	72.4	65.1
87.5°	3.9	3.9	4.2	4.5	4.4	4.4	4.6	4.9	4.9	4.9	5.1
85°	4.1	4.2	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.2
82.5°	4.5	4.8	4.8	4.9	5.2	5.4	5.3	5.2	5.1	5.0	5.4
80°	4.8	4.9	5.1	5.2	5.5	5.9	5.7	5.6	5.7	5.6	5.7
77.5°	5.3	5.2	5.5	5.8	5.8	6.0	6.1	6.1	6.3	6.3	6.1
75°	5.9	5.8	5.8	6.0	6.0	6.0	6.3	6.5	6.8	6.8	6.5
72.5°	5.9	6.0	6.1	6.1	6.4	6.5	6.7	7.0	7.2	7.3	6.9
70°	7.7	6.6	6.5	6.7	6.9	7.1	7.3	7.5	7.6	7.7	7.4
67.5°	10.9	9.1	8.0	7.5	7.5	7.8	7.9	8.2	8.3	8.2	7.9
65°	21.2	14.7	9.7	9.2	8.6	8.6	8.8	9.1	9.1	9.2	8.5
62.5°	31.0	22.8	16.8	12.3	10.7	10.9	9.9	10.6	10.1	10.3	9.6
60°	40.6	31.4	24.6	19.5	15.7	14.2	13.5	12.3	12.1	11.6	11.0
57.5°	39.8	38.4	34.6	27.9	23.9	20.2	18.2	16.4	14.6	14.0	12.5
55°	39.2	39.2	43.4	39.1	34.4	28.8	25.3	22.0	18.1	16.8	14.4
52.5°	45.7	46.6	50.0	52.4	48.8	40.1	36.4	28.2	25.0	19.9	17.4
50°	56.8	61.7	62.4	67.9	65.1	59.3	48.8	40.3	32.4	24.3	20.7
47.5°	85.9	90.6	85.8	90.3	86.1	81.4	68.6	54.7	40.5	31.9	24.1
45°	164.7	137.5	133.0	125.4	115.6	110.0	92.8	70.4	55.0	40.2	27.7
42.5°	274.7	236.1	214.1	167.9	163.0	143.6	121.1	95.8	70.5	49.0	33.8
40°	429.2	371.7	320.1	267.7	222.1	181.4	157.4	124.5	87.1	60.4	41.8
37.5°	579.1	510.8	451.5	373.6	297.5	243.2	197.3	155.3	108.6	76.6	50.2
35°	703.9	640.1	560.5	477.0	397.0	306.2	240.1	189.8	137.4	93.6	58.8
32.5°	806.3	741.8	650.5	566.0	476.3	369.1	292.1	226.5	166.7	111.4	67.7
30°	882.7	821.3	734.6	636.0	540.6	434.6	344.2	261.4	196.2	129.8	78.0
27.5°	962.0	903.0	816.0	707.0	596.2	490.9	387.0	294.4	226.0	148.7	91.6
25°	1041.3	980.7	900.2	785.6	651.9	535.1	425.9	325.8	254.2	168.6	104.5
22.5°	1110.5	1052.4	984.0	868.5	714.9	577.9	462.4	359.8	273.3	186.8	116.6
20°	1174.2	1113.2	1062.5	938.8	783.2	629.3	498.0	386.2	291.0	203.5	127.9
17.5°	1265.2	1167.3	1103.4	992.8	847.7	682.0	534.9	411.2	307.3	218.6	138.4
15°	1473.3	1220.4	1143.7	1040.4	900.2	731.8	571.9	435.3	322.0	232.0	147.6
12.5°	1663.7	1270.7	1185.9	1081.2	939.7	775.4	608.1	458.0	335.3	244.8	155.4
10°	1856.0	1319.6	1227.2	1120.6	973.4	813.0	642.9	481.5	351.7	256.9	162.4
7.5°	2066.8	1367.5	1265.8	1158.4	1002.7	843.7	673.3	508.2	367.6	267.8	168.5
5°	2258.4	1411.7	1305.9	1200.5	1032.2	868.0	699.3	532.7	382.1	277.3	173.6
2.5°	2392.6	1449.1	1345.4	1240.0	1057.8	887.5	721.2	554.7	395.1	285.3	177.8
0°	2492.5	1482.2	1381.4	1274.7	1078.9	902.6	739.1	573.7	406.2	291.7	181.1
-2.5°	2488.3	1510.0	1410.9	1308.1	1118.0	924.7	750.7	583.7	417.9	300.6	187.7
-5°	2445.8	1534.4	1437.6	1336.4	1150.8	941.9	758.6	590.3	427.5	307.7	193.2
-7.5°	2393.2	1561.8	1462.7	1359.1	1176.0	953.6	762.5	593.9	434.8	312.8	197.5
-10°	2306.6	1588.8	1486.1	1370.1	1181.1	960.4	763.8	594.5	439.6	315.9	200.5
-12.5°	2199.5	1613.5	1506.0	1374.6	1178.4	963.7	768.9	593.8	441.6	316.9	202.0
-15°	2057.0	1646.4	1530.3	1373.3	1170.5	962.5	768.4	589.7	438.0	314.5	202.0
-17.5°	1856.1	1671.0	1553.4	1368.6	1158.5	956.9	761.9	581.0	431.9	308.7	199.9
-20°	1832.1	1693.9	1566.2	1353.7	1141.6	944.9	749.1	567.4	423.1	300.9	196.1



REPORT NUMBER: P413578 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1848.8	1719.7	1560.1	1328.9	1120.8	927.4	730.8	549.3	411.7	291.2	191.1
-25°	1852.4	1744.5	1551.1	1315.4	1096.9	902.8	709.3	531.6	397.5	279.5	184.7
-27.5°	1850.9	1740.0	1537.1	1286.9	1070.6	872.5	685.6	519.1	385.9	265.9	177.0
-30°	1846.5	1693.2	1487.6	1245.5	1034.2	838.4	658.0	503.5	372.9	255.0	168.0
-32.5°	1821.0	1640.9	1423.8	1198.6	990.9	799.9	627.6	484.6	357.0	245.9	162.4
-35°	1754.1	1569.8	1358.7	1144.7	943.2	762.7	597.7	462.2	338.3	234.5	157.6
-37.5°	1681.0	1481.6	1292.7	1085.7	890.8	721.1	570.1	437.9	316.7	220.8	152.1
-40°	1575.1	1385.5	1205.7	1019.6	837.2	674.5	538.0	410.7	297.2	204.9	145.2
-42.5°	1464.0	1284.8	1113.6	941.7	779.6	632.4	502.0	379.7	276.4	192.8	137.1
-45°	1351.4	1180.8	1017.6	865.0	717.9	585.4	462.9	346.3	252.8	182.0	130.9
-47.5°	1232.4	1073.7	923.9	783.1	659.4	533.7	417.7	316.5	226.7	169.6	128.4
-50°	1109.7	964.5	829.0	706.9	592.7	477.9	370.6	283.5	210.5	155.5	125.5
-52.5°	985.7	854.2	738.4	630.5	522.9	417.1	328.0	248.4	192.7	148.1	122.0
-55°	859.1	752.3	651.6	550.4	449.6	362.7	282.5	224.7	173.3	143.4	118.3
-57.5°	749.3	655.5	560.3	466.1	382.8	307.8	247.4	199.9	163.9	138.2	115.9
-60°	640.9	552.9	464.8	389.8	319.3	261.9	218.3	179.5	157.2	133.0	113.1
-62.5°	528.3	450.0	381.9	316.8	267.6	227.2	191.7	170.3	149.5	129.1	110.0
-65°	422.5	359.8	301.6	264.3	227.5	197.2	180.2	160.5	143.2	124.8	106.6
-67.5°	321.5	286.9	252.5	219.0	199.6	183.8	168.1	152.4	137.0	120.1	102.9
-70°	263.7	232.9	213.1	198.6	184.4	170.5	158.4	144.9	130.5	115.5	99.1
-72.5°	222.6	208.4	194.8	181.9	170.9	159.7	148.9	137.2	124.3	110.7	95.0
-75°	200.9	189.4	179.1	168.9	158.7	148.8	139.7	129.7	117.9	105.6	90.7
-77.5°	184.1	174.0	164.8	156.0	147.5	139.2	130.9	122.0	111.2	100.0	86.2
-80°	168.1	159.6	151.7	143.8	136.5	129.4	121.6	113.7	104.0	94.1	81.4
-82.5°	152.8	145.6	138.3	131.1	124.6	118.0	111.6	105.1	96.6	88.0	76.9
-85°	136.9	130.8	124.3	117.9	112.2	106.6	102.0	97.3	90.1	82.9	73.1
-87.5°	124.0	119.0	113.8	108.7	104.2	99.8	95.4	90.8	84.3	77.7	69.2
-90°	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.9	4.9	4.9	4.9



REPORT NUMBER: P413578 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	57.8	48.0	38.2	26.9	15.6	10.2	4.9
87.5°	5.2	5.1	5.1	5.1	5.1	5.0	4.9
85°	5.4	5.3	5.2	5.3	5.2	5.2	4.9
82.5°	5.7	5.5	5.4	5.5	5.4	5.3	4.9
80°	5.9	5.8	5.6	5.7	5.6	5.4	4.9
77.5°	6.2	6.0	5.8	5.9	5.7	5.5	4.9
75°	6.4	6.3	6.0	6.1	5.9	5.7	4.9
72.5°	6.7	6.7	6.4	6.3	6.1	5.8	4.9
70°	7.1	7.0	6.7	6.5	6.3	5.9	4.9
67.5°	7.6	7.4	7.1	6.7	6.5	6.0	4.9
65°	8.2	7.9	7.4	7.0	6.7	6.2	4.9
62.5°	8.9	8.4	7.8	7.3	6.9	6.3	4.9
60°	9.5	9.0	8.1	7.5	7.1	6.4	4.9
57.5°	11.1	9.6	8.8	7.8	7.3	6.5	4.9
55°	13.0	10.3	9.4	8.0	7.6	6.7	4.9
52.5°	14.9	11.1	10.2	8.3	7.9	6.8	4.9
50°	17.0	13.2	11.0	8.5	8.3	6.9	4.9
47.5°	19.4	15.3	11.8	8.9	8.6	7.0	4.9
45°	22.5	17.5	12.7	9.5	9.0	7.2	4.9
42.5°	25.6	19.8	13.6	10.2	9.4	7.3	4.9
40°	29.0	22.1	15.0	11.2	9.9	7.4	4.9
37.5°	32.6	24.5	16.8	12.3	10.3	7.5	4.9
35°	36.4	27.3	18.6	13.5	10.8	7.6	4.9
32.5°	41.2	30.3	20.5	14.8	11.3	7.7	4.9
30°	48.5	33.3	22.3	16.0	11.7	7.8	4.9
27.5°	55.7	36.3	24.7	17.3	12.2	7.9	4.9
25°	62.7	39.2	27.1	18.7	12.8	8.1	4.9
22.5°	69.7	42.2	29.4	20.0	13.3	8.1	4.9
20°	76.4	45.4	31.6	21.4	13.8	8.2	4.9
17.5°	82.5	48.4	33.7	22.7	14.3	8.3	4.9
15°	88.0	51.4	35.8	24.0	14.8	8.4	4.9
12.5°	93.1	54.1	37.7	25.4	15.3	8.5	4.9
10°	97.6	56.8	39.6	26.6	15.8	8.6	4.9
7.5°	101.6	59.2	41.4	27.9	16.3	8.6	4.9
5°	105.2	61.5	43.0	29.1	16.8	8.7	4.9
2.5°	108.2	63.7	44.6	30.2	17.2	8.8	4.9
0°	110.7	65.6	46.0	31.3	17.6	8.8	4.9
-2.5°	114.2	68.3	48.0	32.7	18.5	9.2	4.9
-5°	117.2	70.8	49.9	34.0	19.4	9.6	4.9
-7.5°	119.6	73.1	51.7	35.2	20.3	9.9	4.9
-10°	121.4	75.2	53.3	36.3	21.1	10.3	4.9
-12.5°	122.6	77.1	54.8	37.3	21.8	10.6	4.9
-15°	123.2	78.7	56.1	38.3	22.5	10.9	4.9
-17.5°	123.2	80.0	57.3	39.1	23.2	11.2	4.9
-20°	122.7	81.1	58.3	39.9	23.8	11.5	4.9



REPORT NUMBER: P413578 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	121.8	82.0	59.2	40.6	24.3	11.8	4.9
-25°	120.1	82.7	59.8	41.1	24.8	12.0	4.9
-27.5°	117.7	83.2	60.3	41.6	25.2	12.3	4.9
-30°	114.6	83.5	60.7	42.0	25.5	12.5	4.9
-32.5°	110.7	83.5	61.1	42.3	25.8	12.7	4.9
-35°	109.2	83.3	61.4	42.5	26.0	12.8	4.9
-37.5°	108.6	83.0	61.6	42.5	26.1	12.9	4.9
-40°	107.6	82.9	61.5	42.5	26.2	13.1	4.9
-42.5°	106.4	82.7	61.5	42.5	26.2	13.1	4.9
-45°	104.7	82.2	61.5	42.4	26.1	13.2	4.9
-47.5°	102.6	81.6	61.2	42.3	26.0	13.2	4.9
-50°	101.2	80.7	60.9	42.1	25.7	13.2	4.9
-52.5°	99.8	79.6	60.3	41.8	25.4	13.2	4.9
-55°	98.0	78.5	59.7	41.4	25.1	13.2	4.9
-57.5°	96.0	77.2	58.8	40.8	24.6	13.1	4.9
-60°	93.8	75.7	57.8	40.2	24.1	13.0	4.9
-62.5°	91.5	74.0	56.7	39.4	23.7	12.9	4.9
-65°	88.9	72.0	55.4	38.5	23.3	12.7	4.9
-67.5°	86.0	69.9	54.0	37.5	22.7	12.6	4.9
-70°	82.9	67.6	52.4	36.5	22.1	12.4	4.9
-72.5°	79.7	65.1	50.7	35.5	21.5	12.2	4.9
-75°	76.4	62.5	48.9	34.5	20.8	12.0	4.9
-77.5°	72.9	59.8	47.3	33.4	20.0	11.7	4.9
-80°	69.2	57.4	45.7	32.3	19.2	11.4	4.9
-82.5°	66.4	55.2	43.9	31.0	18.3	11.2	4.9
-85°	63.6	52.9	42.1	29.7	17.5	10.9	4.9
-87.5°	60.8	50.5	40.2	28.3	16.5	10.6	4.9
-90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9

(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

