

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: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-7F-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-42)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-7F-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

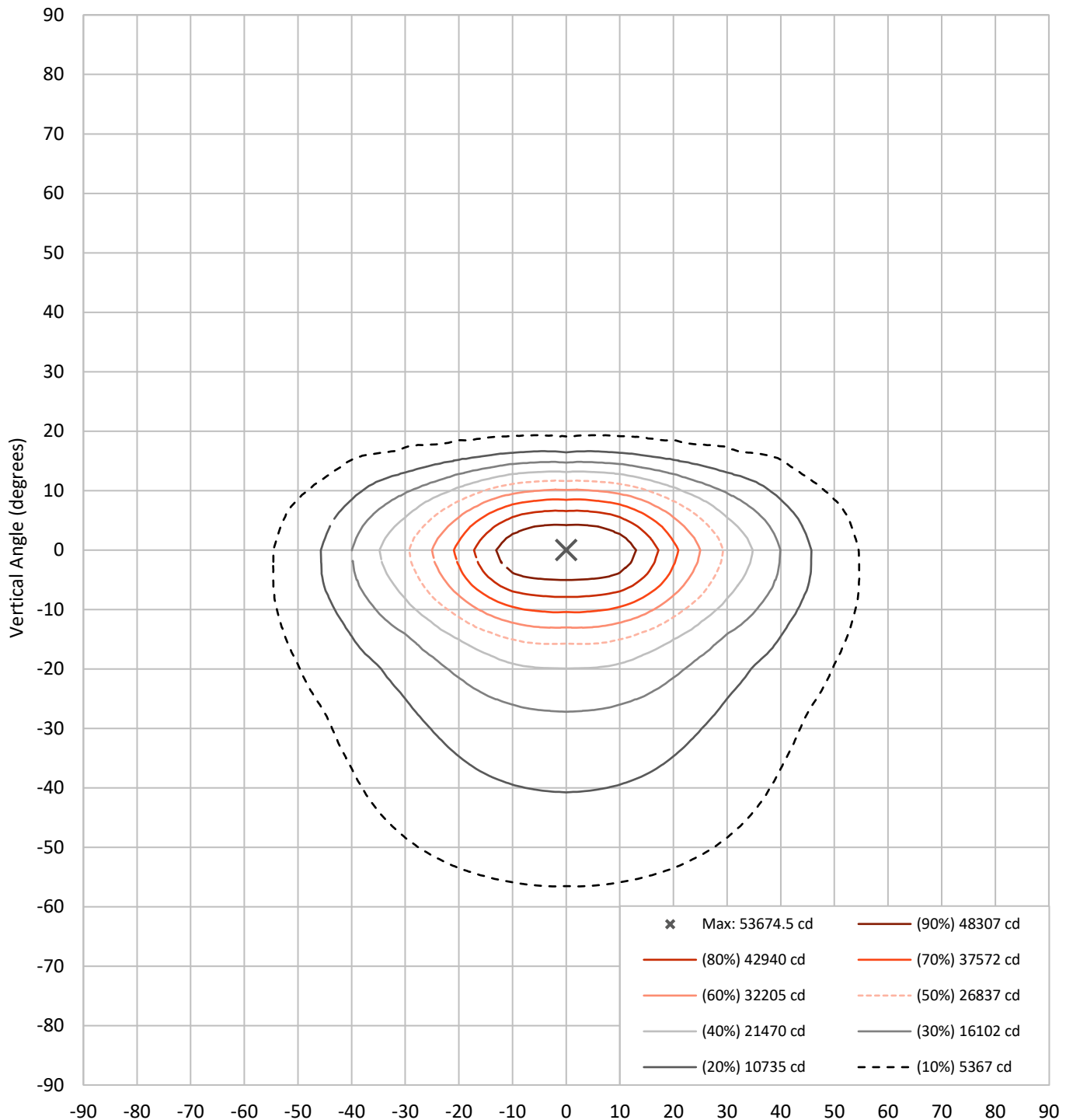
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	36115.7 lumens	Max Intensity:	53674.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	51.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 27.3°V	Field Angle (10%):	109.1°H x 75.6°V
Beam Lumens:	14353.8 lumens	Field Lumens:	31782.5 lumens
Beam Efficiency:	39.7%	Field Efficiency:	88.0%

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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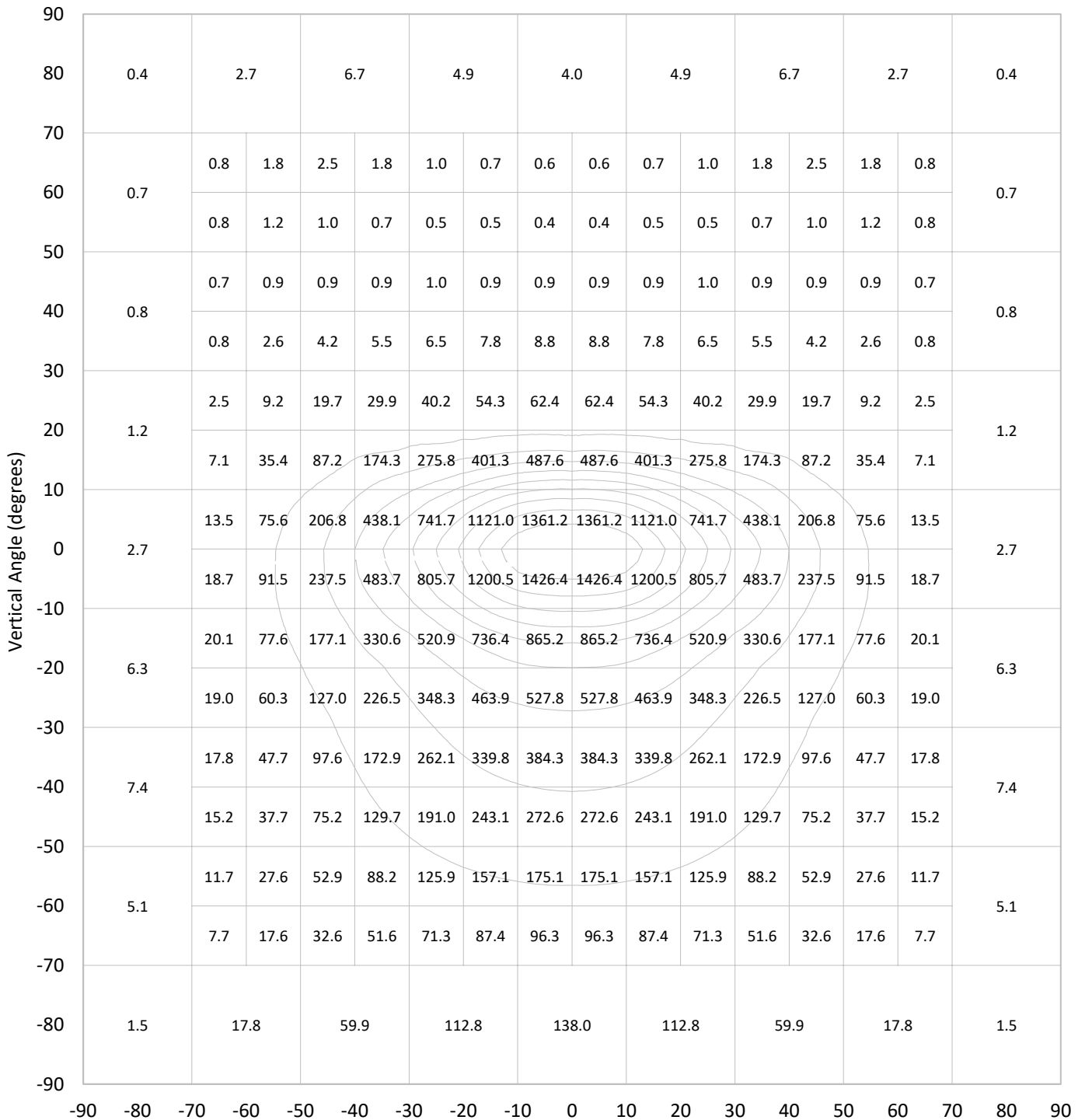
Iso-Candela Plot





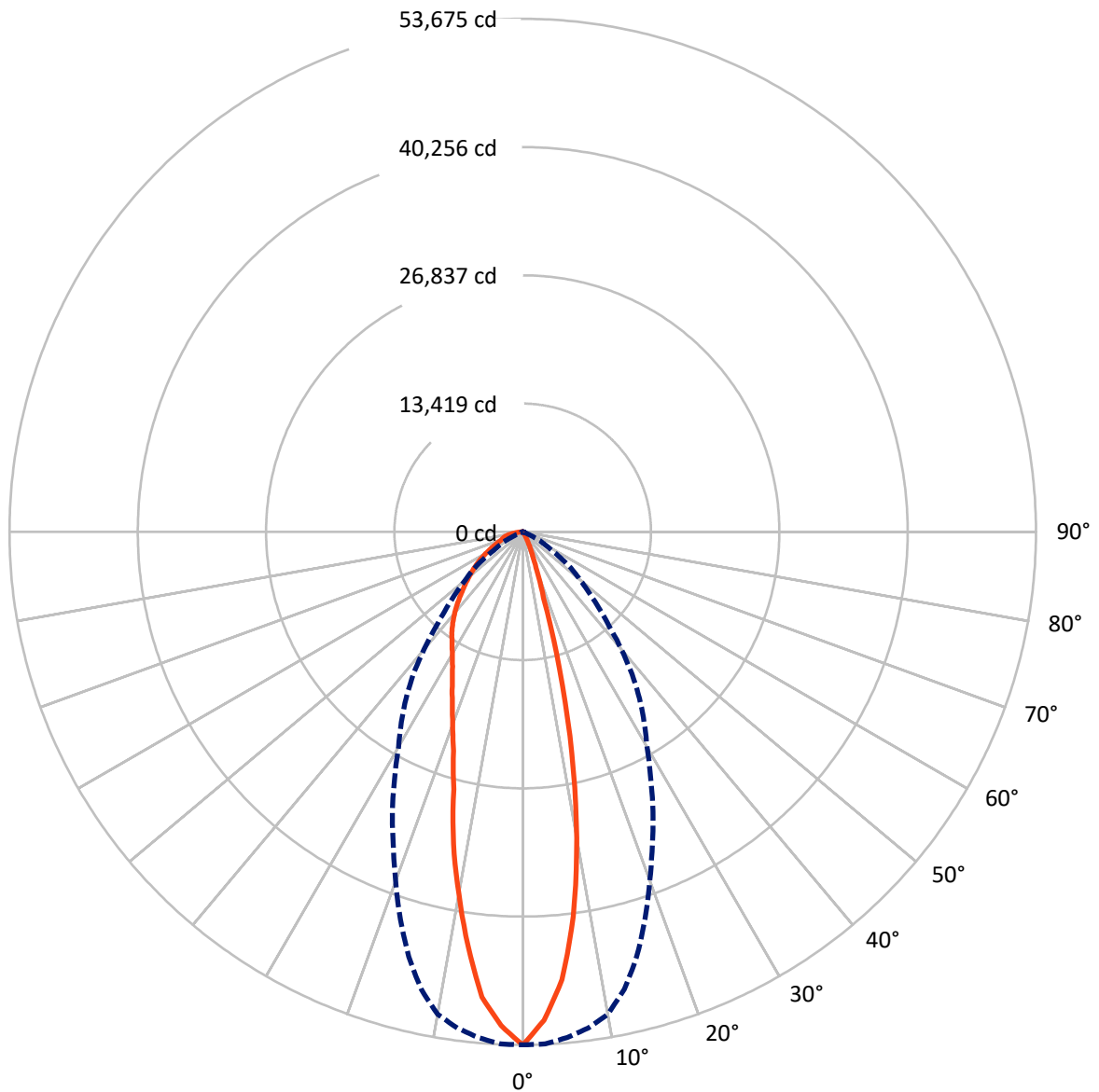
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Lumen Table



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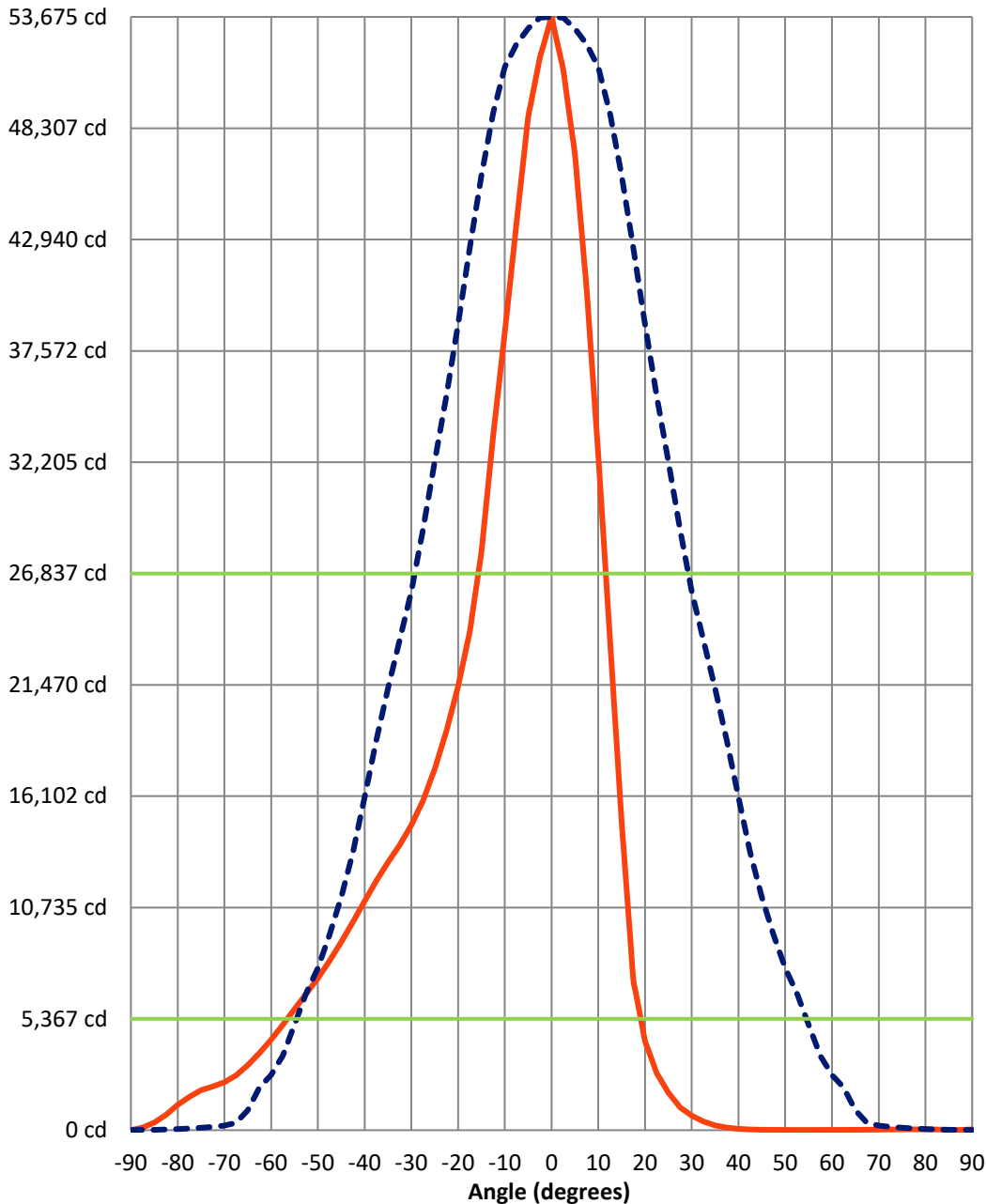
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 27.3°
 Lumens: 14353.8
 Efficiency: 39.7%

Field:
 H Angle: 109.1°
 V Angle: 75.6°
 Lumens: 31782.5
 Efficiency: 88.0%

Spill:
 Lumens: 4333.2
 Efficiency: 12.0%

— 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°	7.8	8.8	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.2	13.7
87.5°	7.8	8.1	8.7	9.3	10.0	10.9	11.8	12.1	12.1	12.1	11.9
85°	7.8	8.5	9.5	10.7	12.2	13.9	15.8	16.3	16.5	16.4	16.1
82.5°	7.8	8.8	10.3	12.2	14.4	16.9	19.8	20.6	21.0	22.6	25.3
80°	7.8	9.2	11.2	13.6	16.5	19.9	23.5	24.6	27.1	31.4	37.3
77.5°	7.8	9.5	12.0	15.0	18.6	22.2	25.3	28.2	33.0	39.9	46.7
75°	7.8	9.8	12.8	16.4	20.4	23.1	27.0	31.7	38.2	43.8	49.5
72.5°	7.8	10.1	13.6	17.7	20.7	24.0	28.6	34.4	40.1	46.0	52.2
70°	7.8	10.4	14.3	18.8	21.0	24.8	30.0	35.8	41.8	48.1	54.2
67.5°	7.8	10.7	15.1	18.7	21.2	25.4	31.2	37.1	43.4	49.7	55.9
65°	7.8	11.0	15.8	18.6	21.3	26.2	32.4	38.3	44.7	51.1	58.1
62.5°	7.8	11.3	16.4	18.4	21.4	27.3	33.5	39.3	45.9	52.7	61.4
60°	7.8	11.6	17.1	18.2	21.3	28.4	34.7	40.2	46.9	55.2	64.5
57.5°	7.8	11.9	16.9	18.0	22.2	29.4	35.9	41.2	48.6	57.5	65.6
55°	7.8	12.1	16.8	17.6	23.1	30.5	37.3	42.5	50.1	59.0	65.8
52.5°	7.8	12.3	16.6	17.3	23.9	31.5	38.7	44.3	51.5	59.1	65.9
50°	7.8	12.6	16.5	16.9	24.7	32.8	40.1	46.2	52.3	59.0	62.6
47.5°	7.8	12.8	16.4	16.7	25.5	34.1	41.7	48.0	52.1	58.8	59.5
45°	7.8	12.9	16.3	17.2	26.3	35.5	43.3	49.9	53.3	56.6	56.7
42.5°	7.8	13.1	16.3	17.8	27.0	36.8	44.9	51.5	54.8	54.6	54.1
40°	7.8	13.3	16.3	18.6	27.8	38.2	46.5	52.9	56.1	53.2	51.8
37.5°	7.8	13.4	16.3	19.6	28.8	39.5	48.1	54.4	57.2	54.6	49.9
35°	7.8	13.5	16.3	20.7	29.8	40.8	49.6	56.1	58.7	57.0	50.2
32.5°	7.8	13.7	16.3	21.7	30.8	42.0	51.1	57.8	60.7	60.7	60.0
30°	7.8	13.8	16.3	22.8	31.7	43.1	52.4	59.6	63.1	65.6	72.3
27.5°	7.8	13.8	16.4	23.8	33.6	44.2	53.8	61.5	66.4	71.8	86.9
25°	7.8	13.9	16.5	24.9	35.7	45.2	55.2	63.5	71.1	82.1	105.2
22.5°	7.8	13.9	16.6	25.9	37.8	46.9	56.6	65.8	76.4	95.2	164.9
20°	7.8	14.0	16.7	26.9	39.9	50.6	58.0	68.2	82.3	109.3	233.1
17.5°	7.8	14.0	16.8	27.9	42.0	54.5	63.0	70.8	88.6	124.3	308.0
15°	7.8	14.0	16.9	28.8	44.1	58.5	70.6	77.9	95.2	139.8	387.7
12.5°	7.8	14.0	17.0	29.7	46.1	62.5	78.5	91.1	110.5	155.5	469.9
10°	7.8	13.9	17.2	30.5	48.0	66.6	86.6	104.8	132.8	192.5	561.9
7.5°	7.8	13.9	17.3	31.3	49.8	70.6	94.9	118.7	155.5	233.4	671.5
5°	7.8	13.8	17.4	32.0	51.5	74.5	103.1	132.6	178.2	274.2	776.7
2.5°	7.8	13.8	17.5	32.6	53.1	78.3	111.2	146.4	200.6	314.4	875.0
0°	7.8	13.7	17.6	33.2	54.6	81.9	119.0	159.9	222.3	353.0	963.5
-2.5°	7.8	14.0	19.0	37.3	63.8	99.7	150.1	211.2	300.1	460.3	1071.9
-5°	7.8	14.3	20.3	41.2	72.7	117.0	180.3	261.1	375.8	563.9	1168.1
-7.5°	7.8	14.5	21.6	44.9	81.2	133.6	209.3	309.1	448.4	662.5	1252.2
-10°	7.8	14.8	22.8	48.5	89.3	149.3	236.6	354.4	516.7	754.8	1324.6
-12.5°	7.8	15.0	24.0	51.7	96.8	163.8	262.0	396.3	580.0	836.2	1354.0
-15°	7.8	15.2	25.1	54.7	103.6	177.1	285.0	434.1	631.5	885.7	1360.4
-17.5°	7.8	15.4	26.1	57.3	109.7	188.8	305.2	467.0	670.9	928.8	1360.6
-20°	7.8	15.6	27.1	59.6	114.9	198.9	324.3	495.5	705.6	965.2	1355.7



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.8	15.7	27.9	61.5	119.1	207.2	343.5	519.9	735.3	994.7	1346.7
-25°	7.8	15.8	28.7	62.9	122.4	217.8	359.9	540.0	759.9	1016.8	1334.8
-27.5°	7.8	15.9	29.3	63.9	124.7	228.0	373.2	555.6	779.0	1035.1	1353.1
-30°	7.8	15.9	29.8	64.4	126.2	236.0	383.4	566.4	794.3	1053.3	1363.9
-32.5°	7.8	15.9	30.2	64.4	130.3	241.6	390.4	576.1	804.4	1064.5	1365.3
-35°	7.8	15.9	30.4	63.9	132.9	244.8	395.8	582.4	808.0	1068.6	1357.4
-37.5°	7.8	15.9	30.6	62.9	133.9	246.3	398.4	584.2	805.2	1065.5	1313.0
-40°	7.8	15.8	30.5	61.3	133.4	246.8	397.4	581.5	795.8	1055.5	1266.6
-42.5°	7.8	15.7	30.4	59.8	132.5	244.8	392.8	574.1	785.1	1012.7	1213.7
-45°	7.8	15.6	30.1	58.8	131.2	240.2	384.4	562.9	771.1	961.5	1154.7
-47.5°	7.8	15.4	29.7	57.0	128.6	233.1	372.4	548.1	750.6	906.1	1092.0
-50°	7.8	15.2	29.1	56.5	124.6	223.6	359.2	528.4	706.1	854.8	1024.2
-52.5°	7.8	15.0	28.4	55.9	119.3	211.6	343.0	503.9	659.1	798.9	952.4
-55°	7.8	14.7	27.5	54.7	112.6	200.8	323.3	475.2	609.4	738.5	882.9
-57.5°	7.8	14.4	26.6	53.0	104.7	188.8	300.2	444.7	557.0	677.1	808.4
-60°	7.8	14.1	25.5	50.7	95.8	174.8	274.8	404.1	503.0	613.2	731.2
-62.5°	7.8	13.8	24.5	47.9	89.9	159.0	252.2	359.5	452.0	546.3	654.6
-65°	7.8	13.4	23.5	44.6	83.2	141.5	227.2	316.3	399.5	485.1	574.8
-67.5°	7.8	13.0	22.4	40.8	75.5	125.5	200.0	278.6	345.6	424.4	502.9
-70°	7.8	12.6	21.2	36.6	67.1	111.5	170.6	240.1	302.3	362.4	433.9
-72.5°	7.8	12.2	19.9	33.5	58.0	96.3	146.8	201.1	258.6	314.0	367.2
-75°	7.8	11.7	18.6	30.6	48.3	80.2	122.6	166.2	214.3	265.2	314.3
-77.5°	7.8	11.3	17.2	27.5	41.8	63.1	97.1	131.9	170.8	214.8	261.0
-80°	7.8	10.8	15.8	24.2	35.9	50.9	70.7	96.7	126.4	160.1	197.8
-82.5°	7.8	10.3	14.3	20.8	29.8	41.3	55.1	66.8	80.9	104.3	130.5
-85°	7.8	9.8	12.8	17.4	23.5	31.4	40.8	48.8	57.3	66.4	76.1
-87.5°	7.8	9.3	11.3	13.8	17.2	21.3	26.3	30.5	35.0	39.9	45.0
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8



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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°	14.2	14.7	15.1	15.6	17.1	18.6	20.0	21.5	23.9	26.4	28.8
87.5°	12.8	13.7	14.6	15.7	15.0	14.1	13.1	12.0	12.9	13.8	14.8
85°	17.7	19.5	22.0	24.0	23.9	24.0	24.4	25.0	26.7	28.1	29.2
82.5°	28.6	31.2	33.0	34.2	36.0	38.3	41.4	46.0	48.5	50.2	51.2
80°	40.8	43.0	44.7	48.0	53.8	60.5	67.8	75.7	78.3	78.6	77.8
77.5°	48.9	52.1	57.5	64.8	73.5	82.0	91.2	100.9	103.7	103.1	101.7
75°	54.2	60.6	68.6	78.5	89.2	100.1	111.5	122.0	125.0	121.9	117.7
72.5°	58.5	66.7	77.5	90.5	102.4	113.5	125.3	137.9	142.2	135.4	126.9
70°	61.3	71.9	84.8	98.5	112.1	124.1	135.2	147.2	154.1	142.6	125.8
67.5°	63.8	76.9	90.8	105.0	117.3	128.7	141.3	145.2	146.9	129.4	111.3
65°	67.3	81.3	94.1	106.6	119.8	123.6	126.3	129.0	126.2	106.2	86.6
62.5°	70.9	82.5	94.7	104.3	107.5	109.4	107.2	102.0	95.0	81.2	65.1
60°	71.9	82.2	90.1	93.0	93.9	89.9	83.7	77.4	70.1	58.7	47.7
57.5°	72.3	77.5	80.5	81.1	77.4	70.9	64.9	56.8	50.7	43.5	34.5
55°	70.6	69.5	71.0	68.5	63.1	56.3	49.2	43.6	36.4	32.2	26.9
52.5°	65.7	62.9	61.6	57.7	51.7	45.4	39.5	34.2	30.1	25.4	22.1
50°	61.4	57.7	53.6	48.9	44.2	40.0	33.4	29.7	26.2	22.5	19.6
47.5°	57.4	53.0	46.9	43.0	42.4	39.8	33.5	27.7	24.5	24.4	21.7
45°	53.8	50.2	43.1	43.9	45.1	45.0	40.5	27.1	30.1	30.7	29.2
42.5°	50.8	49.3	51.2	46.6	54.0	58.0	54.4	45.4	40.3	44.8	46.6
40°	51.2	50.4	67.4	67.0	68.0	78.6	83.7	77.2	59.4	70.5	75.5
37.5°	53.2	70.8	92.0	98.9	92.8	110.8	121.7	129.2	115.2	106.3	121.9
35°	56.5	96.4	127.9	142.7	143.5	153.9	182.3	193.9	184.6	170.4	183.0
32.5°	73.7	126.9	170.4	195.5	218.6	229.4	254.6	266.6	276.7	276.7	271.4
30°	110.4	167.2	219.8	254.0	309.6	360.2	349.2	351.8	389.1	427.1	445.5
27.5°	172.9	217.2	274.8	336.6	421.6	519.9	537.5	487.7	538.4	608.6	670.9
25°	251.5	368.2	333.3	435.2	576.5	712.9	785.4	820.0	750.6	852.7	1000.0
22.5°	360.3	559.7	561.5	542.5	750.7	941.4	1120.0	1291.1	1379.6	1268.6	1421.8
20°	506.9	764.4	846.9	938.5	1011.2	1201.1	1509.4	1882.8	2224.8	2418.4	2329.6
17.5°	675.2	988.0	1177.3	1422.4	1664.5	1768.2	1964.6	2576.1	3239.9	3805.1	4108.9
15°	860.6	1226.9	1534.7	1956.2	2391.6	2719.9	3060.0	3585.4	4461.8	5428.6	6202.6
12.5°	1057.7	1477.0	1912.2	2528.2	3175.2	3714.9	4321.5	5120.4	6131.4	7337.4	8598.2
10°	1260.8	1733.9	2302.6	3125.9	3998.6	4739.6	5607.7	6655.7	7946.5	9449.2	11033.8
7.5°	1476.0	1985.3	2687.4	3735.2	4843.6	5778.8	6901.2	8176.5	9742.9	11529.1	13439.4
5°	1684.4	2222.6	3008.2	4225.2	5529.5	6655.9	8079.7	9662.3	11499.0	13553.5	15804.8
2.5°	1878.8	2449.8	3312.1	4673.6	6086.0	7255.4	8779.9	10481.6	12553.5	14975.8	17579.6
0°	2053.8	2664.2	3594.6	5086.6	6600.1	7813.2	9422.3	11232.3	13391.3	16049.7	18786.1
-2.5°	2129.7	2776.1	3721.9	5148.1	6587.3	7823.3	9371.6	11218.1	13300.2	15834.7	18518.8
-5°	2183.3	2870.6	3822.2	5170.4	6531.9	7786.8	9263.5	11118.9	13010.6	15265.0	17669.7
-7.5°	2217.2	2945.7	3894.6	5132.5	6351.6	7500.8	8785.4	10365.8	12090.6	14097.4	16214.5
-10°	2224.3	2937.7	3785.9	4885.4	6001.2	7054.9	8199.6	9572.1	11114.4	12869.4	14710.0
-12.5°	2155.2	2856.4	3632.7	4620.7	5638.4	6591.7	7594.0	8760.0	10096.7	11605.5	13234.9
-15°	2080.2	2764.3	3468.0	4344.8	5272.1	6119.1	6979.0	7946.1	9132.1	10506.6	11911.8
-17.5°	2003.1	2663.1	3295.2	4063.8	4910.5	5644.4	6397.1	7315.5	8378.2	9536.5	10680.3
-20°	1927.5	2554.2	3117.4	3783.3	4559.2	5252.0	5986.1	6793.1	7685.3	8629.2	9538.6



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1856.5	2439.1	2953.1	3548.0	4257.3	4921.7	5577.4	6270.7	7009.5	7773.7	8733.3
-25°	1808.9	2328.7	2809.7	3361.4	3973.8	4587.0	5165.4	5761.4	6397.3	7242.7	8131.4
-27.5°	1779.3	2234.6	2683.8	3173.9	3702.5	4256.8	4780.3	5306.1	6015.0	6775.6	7562.2
-30°	1750.2	2141.1	2552.6	2996.7	3477.9	3958.8	4409.4	5003.5	5664.4	6360.3	7059.9
-32.5°	1694.9	2042.9	2433.0	2844.1	3269.3	3685.6	4156.1	4740.3	5346.6	5958.4	6589.8
-35°	1626.4	1956.2	2315.7	2688.9	3070.1	3481.9	3958.9	4473.1	5030.1	5599.3	6222.4
-37.5°	1566.5	1861.9	2194.0	2542.0	2899.3	3304.8	3743.3	4223.8	4731.4	5263.7	5858.6
-40°	1500.1	1760.3	2078.9	2405.2	2740.6	3119.6	3532.7	3969.3	4436.5	4945.5	5479.4
-42.5°	1428.9	1679.5	1960.3	2264.8	2583.7	2930.3	3305.5	3716.1	4152.0	4615.3	5104.3
-45°	1362.8	1592.6	1839.8	2124.1	2419.0	2734.3	3082.2	3450.8	3863.9	4290.5	4731.0
-47.5°	1289.3	1501.9	1736.0	1973.9	2250.1	2540.8	2849.1	3197.8	3562.9	3959.0	4365.7
-50°	1210.0	1411.9	1617.9	1835.6	2077.3	2342.9	2624.5	2938.3	3276.2	3622.2	3988.1
-52.5°	1128.5	1314.0	1500.5	1694.4	1910.1	2146.0	2402.1	2679.8	2983.9	3301.2	3616.9
-55°	1041.7	1213.0	1378.8	1555.1	1743.1	1953.3	2179.6	2427.1	2682.2	2971.2	3249.3
-57.5°	953.9	1104.7	1255.5	1415.6	1583.1	1759.2	1965.3	2175.0	2404.9	2642.5	2874.2
-60°	863.1	994.6	1128.8	1273.4	1424.7	1584.2	1752.0	1939.2	2134.0	2326.2	2530.3
-62.5°	768.8	884.9	1003.0	1126.9	1262.9	1406.5	1556.5	1712.5	1873.1	2040.3	2205.2
-65°	677.9	776.3	879.4	987.8	1096.8	1228.4	1361.1	1492.4	1632.8	1768.3	1900.4
-67.5°	585.4	678.6	765.3	849.9	950.4	1063.4	1167.6	1286.6	1404.2	1515.5	1623.2
-70°	508.6	583.3	662.9	739.5	818.6	914.8	1017.0	1111.6	1200.6	1294.0	1394.9
-72.5°	434.8	506.8	573.4	634.6	714.8	804.7	888.7	966.7	1051.6	1140.3	1221.9
-75°	367.2	430.0	494.9	555.1	621.9	700.5	785.0	864.5	936.7	1008.4	1082.7
-77.5°	302.1	349.3	404.0	465.7	531.9	593.0	659.8	731.9	799.3	867.7	940.3
-80°	232.0	265.6	302.7	345.5	394.8	448.6	506.5	568.1	622.0	671.5	720.5
-82.5°	156.1	181.8	207.8	234.0	261.4	290.5	322.5	361.7	396.6	431.7	467.3
-85°	86.4	97.3	115.0	133.0	148.3	164.5	181.5	199.3	215.9	232.1	248.1
-87.5°	50.4	56.1	62.0	68.2	72.3	76.2	79.9	83.5	88.2	92.8	97.2
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	31.2	31.7	32.2	32.7	33.2	34.7	36.1	37.6	39.0	38.5	38.1
87.5°	15.8	15.6	15.3	15.0	14.7	16.2	17.7	19.3	20.9	19.2	17.4
85°	30.0	30.2	30.2	30.1	29.9	31.9	33.9	35.9	37.8	34.9	31.8
82.5°	51.5	50.6	48.8	46.4	43.3	42.6	41.7	40.6	39.1	37.5	36.0
80°	76.4	72.8	68.0	62.5	56.3	53.1	50.0	46.5	42.7	41.6	40.7
77.5°	98.5	91.9	83.8	75.0	65.7	60.1	55.3	50.4	45.3	44.2	43.7
75°	112.6	104.0	92.2	80.0	67.5	59.6	53.8	48.3	42.8	41.2	40.4
72.5°	116.9	104.9	91.2	75.9	61.2	51.9	46.5	41.8	37.5	35.7	34.9
70°	109.4	93.4	78.2	63.5	50.0	41.3	37.6	34.4	31.6	30.4	29.9
67.5°	92.4	75.7	61.5	49.2	39.3	33.0	30.9	28.9	27.2	26.0	25.2
65°	70.2	57.1	46.7	38.5	32.3	28.4	26.7	25.1	23.5	22.2	21.3
62.5°	51.5	42.0	35.9	31.2	27.6	25.0	23.4	22.0	20.8	19.9	19.1
60°	38.9	32.3	28.5	25.6	23.3	21.6	20.6	19.7	18.9	18.1	17.3
57.5°	29.7	25.7	22.9	21.5	20.4	19.7	18.9	18.0	17.1	16.2	15.4
55°	23.5	21.4	19.8	19.4	19.0	18.3	17.4	16.6	15.6	14.5	13.6
52.5°	19.7	19.5	19.5	19.2	18.6	18.1	17.5	16.3	15.1	13.9	13.2
50°	19.5	19.6	19.7	19.3	18.8	18.2	17.7	16.8	16.0	15.2	14.7
47.5°	20.3	20.5	21.7	19.8	19.5	20.1	19.7	19.0	18.7	18.3	17.8
45°	23.8	28.0	29.0	27.5	24.2	26.9	25.9	22.9	24.7	24.5	23.0
42.5°	42.5	46.8	50.3	48.1	41.2	43.5	43.5	38.8	40.1	40.3	38.5
40°	80.9	79.3	84.9	82.6	75.1	72.4	75.6	70.2	69.2	71.8	68.7
37.5°	133.2	134.1	131.6	131.9	129.2	122.0	126.3	124.8	120.3	128.7	129.7
35°	208.2	214.6	194.2	202.3	205.8	197.9	202.8	217.0	207.9	227.5	232.9
32.5°	308.6	322.0	312.4	303.2	318.5	330.6	336.3	366.5	374.5	392.3	413.3
30°	432.5	467.3	494.7	477.6	475.6	518.8	543.7	584.1	623.4	646.9	689.9
27.5°	690.2	679.5	744.8	764.1	721.1	790.1	883.7	901.6	1021.0	1030.7	1114.3
25°	1090.8	1085.3	1104.9	1199.6	1223.6	1258.2	1418.9	1503.8	1640.8	1714.8	1778.9
22.5°	1628.7	1780.8	1806.7	1763.2	1971.3	2107.4	2152.3	2396.6	2508.4	2675.2	2725.3
20°	2301.6	2655.2	3101.9	3108.9	3023.3	3415.3	3577.7	3706.1	3979.2	4169.4	4298.4
17.5°	4065.5	4062.8	4975.1	5479.2	5422.1	5704.4	6502.9	6420.5	7065.6	7456.8	7473.2
15°	6654.3	7136.8	7715.7	8630.0	9408.1	10035.4	10793.6	11784.2	12586.4	13528.6	14243.9
12.5°	9615.9	10566.2	11557.1	12600.0	13821.3	15208.0	16716.3	18036.8	19607.5	20982.1	22403.5
10°	12583.3	14088.4	15486.9	17045.5	18781.3	20628.6	22840.5	24773.3	27096.8	29134.7	30474.4
7.5°	15304.4	17109.9	19000.0	21265.6	23688.3	26008.0	28512.2	31223.0	33941.3	36295.9	38295.4
5°	17964.0	19993.6	22088.6	24584.2	27352.9	30259.6	33358.4	36564.2	39412.6	42094.9	44429.6
2.5°	20050.4	22375.2	24768.8	27590.7	30569.5	33515.2	36617.2	40068.4	43381.0	46518.2	48916.6
0°	21290.4	23623.0	25971.3	28961.2	32232.0	35397.5	38855.5	42530.0	46027.1	49026.7	51250.2
-2.5°	20796.4	23068.5	25441.3	28395.2	31546.3	34495.7	37799.8	41359.2	44746.2	47784.2	50091.9
-5°	19679.5	21718.0	23893.1	26624.3	29572.3	32502.6	35741.8	39127.8	42049.8	44746.4	46815.3
-7.5°	18109.0	19989.6	22018.1	24546.8	27257.7	29816.7	32464.4	35196.1	37855.1	40161.4	41863.8
-10°	16441.0	18143.4	19889.6	21917.5	24227.9	26461.4	28695.4	31187.0	33378.4	35282.4	36686.3
-12.5°	14768.3	16166.8	17544.4	19094.9	21077.5	23087.7	25019.8	27109.1	28854.6	30425.4	31674.3
-15°	13162.7	14251.5	15296.7	16797.5	18543.3	20027.8	21216.8	23109.1	24294.0	25690.4	26563.6
-17.5°	11670.4	12539.8	13810.1	15100.2	16345.7	17565.7	18937.5	20057.9	21220.9	22361.4	23111.9
-20°	10496.2	11571.4	12645.2	13694.4	14764.4	15928.9	17014.8	18073.5	19087.1	19963.6	20565.3



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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°	9731.8	10686.4	11590.2	12534.4	13576.7	14554.6	15472.1	16447.0	17313.6	17968.1	18457.6
-25°	8997.9	9828.0	10707.4	11652.0	12533.9	13357.0	14201.9	14954.4	15694.0	16238.9	16697.0
-27.5°	8336.4	9123.9	9990.3	10827.5	11613.7	12382.9	13100.9	13724.3	14340.4	14776.2	15231.7
-30°	7761.0	8558.6	9346.6	10090.8	10829.2	11526.1	12159.2	12751.2	13268.1	13692.7	14074.4
-32.5°	7326.3	8049.7	8751.3	9447.6	10147.4	10789.9	11344.1	11912.6	12388.3	12795.3	13141.1
-35°	6896.5	7576.7	8225.3	8863.3	9507.4	10126.9	10663.4	11158.4	11626.6	11990.9	12307.8
-37.5°	6477.4	7111.6	7711.7	8285.5	8874.8	9445.9	9935.4	10400.4	10818.9	11155.6	11456.2
-40°	6055.2	6636.2	7172.7	7707.3	8236.8	8715.4	9175.4	9603.7	9962.3	10272.7	10546.3
-42.5°	5619.0	6130.5	6614.5	7103.8	7587.5	8010.9	8416.9	8801.7	9106.9	9382.0	9618.9
-45°	5181.2	5631.3	6074.8	6514.4	6912.3	7303.3	7671.3	7996.2	8271.3	8514.9	8720.4
-47.5°	4759.8	5142.3	5548.0	5948.9	6290.8	6625.5	6947.4	7222.9	7461.8	7674.9	7855.7
-50°	4338.7	4680.0	5033.9	5377.9	5691.5	5985.2	6255.0	6495.7	6713.5	6897.6	7052.7
-52.5°	3921.7	4238.7	4541.2	4821.0	5105.8	5375.9	5626.8	5837.3	6028.1	6198.5	6335.1
-55°	3523.7	3804.0	4086.9	4325.1	4555.3	4780.3	4989.3	5177.3	5350.2	5506.6	5629.1
-57.5°	3122.2	3366.6	3603.0	3816.6	4023.3	4221.7	4391.1	4538.4	4676.4	4802.8	4910.9
-60°	2734.7	2938.4	3138.0	3316.3	3488.4	3653.6	3797.8	3923.2	4034.3	4132.3	4220.9
-62.5°	2370.8	2545.9	2705.0	2848.9	2983.6	3118.3	3241.2	3349.7	3443.8	3524.4	3593.8
-65°	2036.4	2181.2	2308.5	2427.7	2539.5	2653.0	2751.7	2840.7	2920.0	2986.6	3040.0
-67.5°	1739.0	1852.4	1958.3	2050.6	2145.7	2242.3	2331.6	2409.6	2476.8	2530.0	2571.5
-70°	1488.2	1579.9	1674.9	1766.9	1857.5	1940.5	2017.7	2086.7	2148.2	2194.0	2230.6
-72.5°	1296.7	1374.1	1461.7	1554.6	1640.5	1723.0	1801.6	1874.6	1942.6	1986.3	2020.4
-75°	1159.2	1239.1	1317.5	1394.8	1471.0	1543.6	1616.7	1691.3	1766.6	1811.0	1846.7
-77.5°	1007.3	1063.3	1121.6	1184.7	1251.9	1317.0	1380.7	1443.5	1505.1	1536.0	1559.6
-80°	772.2	816.9	860.8	905.2	949.8	995.6	1041.8	1087.6	1132.6	1153.5	1169.0
-82.5°	503.4	534.0	563.2	591.3	618.1	641.1	662.5	682.4	700.8	709.8	716.0
-85°	263.6	277.1	289.9	301.9	313.2	320.3	326.3	331.5	335.7	341.3	346.1
-87.5°	101.5	105.3	109.0	112.6	116.2	117.9	119.4	120.8	121.9	123.7	125.4
-90°	7.8	7.3	6.9	6.4	5.9	5.4	4.9	4.4	3.9	3.9	3.9



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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°	37.6	37.1	38.1	39.0	38.1	37.1	37.6	38.1	38.5	39.0	37.6
87.5°	15.6	13.7	12.7	11.7	12.7	13.7	15.6	17.4	19.2	20.9	19.3
85°	28.6	25.3	23.4	21.5	23.4	25.3	28.6	31.8	34.9	37.8	35.9
82.5°	34.5	33.1	33.2	33.2	33.2	33.1	34.5	36.0	37.5	39.1	40.6
80°	39.8	38.9	39.0	39.0	39.0	38.9	39.8	40.7	41.6	42.7	46.5
77.5°	43.3	42.8	42.0	41.0	42.0	42.8	43.3	43.7	44.2	45.3	50.4
75°	39.8	39.1	39.0	39.0	39.0	39.1	39.8	40.4	41.2	42.8	48.3
72.5°	34.1	33.4	33.2	33.2	33.2	33.4	34.1	34.9	35.7	37.5	41.8
70°	29.6	29.4	28.4	27.3	28.4	29.4	29.6	29.9	30.4	31.6	34.4
67.5°	24.5	23.7	23.4	23.4	23.4	23.7	24.5	25.2	26.0	27.2	28.9
65°	20.5	19.8	19.5	19.5	19.5	19.8	20.5	21.3	22.2	23.5	25.1
62.5°	18.5	17.8	16.8	15.6	16.8	17.8	18.5	19.1	19.9	20.8	22.0
60°	16.6	15.9	14.8	13.7	14.8	15.9	16.6	17.3	18.1	18.9	19.7
57.5°	14.7	14.0	13.7	13.7	13.7	14.0	14.7	15.4	16.2	17.1	18.0
55°	12.8	12.0	11.7	11.7	11.7	12.0	12.8	13.6	14.5	15.6	16.6
52.5°	12.6	12.0	11.7	11.7	11.7	12.0	12.6	13.2	13.9	15.1	16.3
50°	14.3	13.8	13.7	13.7	13.7	13.8	14.3	14.7	15.2	16.0	16.8
47.5°	17.1	16.1	15.6	15.6	15.6	16.1	17.1	17.8	18.3	18.7	19.0
45°	22.5	21.8	21.4	21.5	21.4	21.8	22.5	23.0	24.5	24.7	22.9
42.5°	38.9	37.8	36.2	35.1	36.2	37.8	38.9	38.5	40.3	40.1	38.8
40°	68.9	67.4	65.1	64.4	65.1	67.4	68.9	68.7	71.8	69.2	70.2
37.5°	131.5	130.4	126.2	124.8	126.2	130.4	131.5	129.7	128.7	120.3	124.8
35°	232.5	234.2	230.2	230.1	230.2	234.2	232.5	232.9	227.5	207.9	217.0
32.5°	420.3	424.8	413.0	419.3	413.0	424.8	420.3	413.3	392.3	374.5	366.5
30°	688.5	703.9	697.1	700.2	697.1	703.9	688.5	689.9	646.9	623.4	584.1
27.5°	1122.4	1133.9	1110.3	1102.0	1110.3	1133.9	1122.4	1114.3	1030.7	1021.0	901.6
25°	1814.9	1822.1	1799.0	1808.0	1799.0	1822.1	1814.9	1778.9	1714.8	1640.8	1503.8
22.5°	2827.2	2800.1	2774.4	2750.0	2774.4	2800.1	2827.2	2725.3	2675.2	2508.4	2396.6
20°	4418.3	4355.9	4347.5	4300.6	4347.5	4355.9	4418.3	4298.4	4169.4	3979.2	3706.1
17.5°	7872.1	7985.4	7733.9	7247.6	7733.9	7985.4	7872.1	7473.2	7456.8	7065.6	6420.5
15°	14665.3	15197.5	15426.2	14867.8	15426.2	15197.5	14665.3	14243.9	13528.6	12586.4	11784.2
12.5°	23188.1	23562.8	24016.6	23685.5	24016.6	23562.8	23188.1	22403.5	20982.1	19607.5	18036.8
10°	31625.3	32186.2	32873.1	32563.6	32873.1	32186.2	31625.3	30474.4	29134.7	27096.8	24773.3
7.5°	39395.8	40362.3	40965.8	40577.7	40965.8	40362.3	39395.8	38295.4	36295.9	33941.3	31223.0
5°	46027.4	46791.5	47155.4	47054.9	47155.4	46791.5	46027.4	44429.6	42094.9	39412.6	36564.2
2.5°	50280.2	51086.9	51412.9	51142.0	51412.9	51086.9	50280.2	48916.6	46518.2	43381.0	40068.4
0°	52358.9	53114.8	53633.5	53674.5	53633.5	53114.8	52358.9	51250.2	49026.7	46027.1	42530.0
-2.5°	51157.7	51617.0	51865.1	51699.8	51865.1	51617.0	51157.7	50091.9	47784.2	44746.2	41359.2
-5°	48011.6	48497.2	48654.9	48847.3	48654.9	48497.2	48011.6	46815.3	44746.4	42049.8	39127.8
-7.5°	42821.3	43354.1	43747.0	43730.5	43747.0	43354.1	42821.3	41863.8	40161.4	37855.1	35196.1
-10°	37730.5	38126.4	38536.2	38467.4	38536.2	38126.4	37730.5	36686.3	35282.4	33378.4	31187.0
-12.5°	32685.2	33345.6	33506.1	33457.9	33506.1	33345.6	32685.2	31674.3	30425.4	28854.6	27109.1
-15°	27557.6	28046.9	28006.8	27876.8	28006.8	28046.9	27557.6	26563.6	25690.4	24294.0	23109.1
-17.5°	23761.3	24031.1	24134.2	24032.6	24134.2	24031.1	23761.3	23111.9	22361.4	21220.9	20057.9
-20°	21059.9	21268.4	21338.6	21385.9	21338.6	21268.4	21059.9	20565.3	19963.6	19087.1	18073.5



REPORT NUMBER: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	18879.2	19092.2	19153.9	19234.7	19153.9	19092.2	18879.2	18457.6	17968.1	17313.6	16447.0
-25°	17050.3	17258.5	17328.9	17409.1	17328.9	17258.5	17050.3	16697.0	16238.9	15694.0	14954.4
-27.5°	15537.2	15740.3	15825.0	15885.9	15825.0	15740.3	15537.2	15231.7	14776.2	14340.4	13724.3
-30°	14345.6	14545.6	14666.6	14705.9	14666.6	14545.6	14345.6	14074.4	13692.7	13268.1	12751.2
-32.5°	13400.2	13574.8	13688.5	13746.3	13688.5	13574.8	13400.2	13141.1	12795.3	12388.3	11912.6
-35°	12558.1	12733.5	12851.6	12911.5	12851.6	12733.5	12558.1	12307.8	11990.9	11626.6	11158.4
-37.5°	11697.0	11888.0	12013.0	12016.3	12013.0	11888.0	11697.0	11456.2	11155.6	10818.9	10400.4
-40°	10747.1	10898.5	10997.6	11037.2	10997.6	10898.5	10747.1	10546.3	10272.7	9962.3	9603.7
-42.5°	9794.3	9922.9	10003.2	10036.7	10003.2	9922.9	9794.3	9618.9	9382.0	9106.9	8801.7
-45°	8884.5	9014.1	9081.1	9071.2	9081.1	9014.1	8884.5	8720.4	8514.9	8271.3	7996.2
-47.5°	7994.5	8095.1	8150.0	8162.3	8150.0	8095.1	7994.5	7855.7	7674.9	7461.8	7222.9
-50°	7184.4	7290.9	7336.5	7323.7	7336.5	7290.9	7184.4	7052.7	6897.6	6713.5	6495.7
-52.5°	6447.7	6538.3	6577.6	6572.8	6577.6	6538.3	6447.7	6335.1	6198.5	6028.1	5837.3
-55°	5729.4	5807.7	5838.8	5833.6	5838.8	5807.7	5729.4	5629.1	5506.6	5350.2	5177.3
-57.5°	5000.5	5071.0	5091.9	5078.8	5091.9	5071.0	5000.5	4910.9	4802.8	4676.4	4538.4
-60°	4294.4	4352.4	4370.5	4363.0	4370.5	4352.4	4294.4	4220.9	4132.3	4034.3	3923.2
-62.5°	3651.1	3695.9	3714.3	3715.5	3714.3	3695.9	3651.1	3593.8	3524.4	3443.8	3349.7
-65°	3083.4	3116.6	3131.4	3134.3	3131.4	3116.6	3083.4	3040.0	2986.6	2920.0	2840.7
-67.5°	2604.9	2630.8	2639.9	2640.8	2639.9	2630.8	2604.9	2571.5	2530.0	2476.8	2409.6
-70°	2263.4	2292.3	2304.4	2311.2	2304.4	2292.3	2263.4	2230.6	2194.0	2148.2	2086.7
-72.5°	2052.3	2082.1	2096.0	2106.4	2096.0	2082.1	2052.3	2020.4	1986.3	1942.6	1874.6
-75°	1880.6	1912.2	1922.1	1927.0	1922.1	1912.2	1880.6	1846.7	1811.0	1766.6	1691.3
-77.5°	1580.0	1597.0	1603.3	1605.2	1603.3	1597.0	1580.0	1559.6	1536.0	1505.1	1443.5
-80°	1181.3	1190.2	1207.2	1220.9	1207.2	1190.2	1181.3	1169.0	1153.5	1132.6	1087.6
-82.5°	719.8	721.3	731.2	739.2	731.2	721.3	719.8	716.0	709.8	700.8	682.4
-85°	350.1	353.3	361.3	368.6	361.3	353.3	350.1	346.1	341.3	335.7	331.5
-87.5°	127.0	128.3	127.7	126.8	127.7	128.3	127.0	125.4	123.7	121.9	120.8
-90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	36.1	34.7	33.2	32.7	32.2	31.7	31.2	28.8	26.4	23.9	21.5
87.5°	17.7	16.2	14.7	15.0	15.3	15.6	15.8	14.8	13.8	12.9	12.0
85°	33.9	31.9	29.9	30.1	30.2	30.2	30.0	29.2	28.1	26.7	25.0
82.5°	41.7	42.6	43.3	46.4	48.8	50.6	51.5	51.2	50.2	48.5	46.0
80°	50.0	53.1	56.3	62.5	68.0	72.8	76.4	77.8	78.6	78.3	75.7
77.5°	55.3	60.1	65.7	75.0	83.8	91.9	98.5	101.7	103.1	103.7	100.9
75°	53.8	59.6	67.5	80.0	92.2	104.0	112.6	117.7	121.9	125.0	122.0
72.5°	46.5	51.9	61.2	75.9	91.2	104.9	116.9	126.9	135.4	142.2	137.9
70°	37.6	41.3	50.0	63.5	78.2	93.4	109.4	125.8	142.6	154.1	147.2
67.5°	30.9	33.0	39.3	49.2	61.5	75.7	92.4	111.3	129.4	146.9	145.2
65°	26.7	28.4	32.3	38.5	46.7	57.1	70.2	86.6	106.2	126.2	129.0
62.5°	23.4	25.0	27.6	31.2	35.9	42.0	51.5	65.1	81.2	95.0	102.0
60°	20.6	21.6	23.3	25.6	28.5	32.3	38.9	47.7	58.7	70.1	77.4
57.5°	18.9	19.7	20.4	21.5	22.9	25.7	29.7	34.5	43.5	50.7	56.8
55°	17.4	18.3	19.0	19.4	19.8	21.4	23.5	26.9	32.2	36.4	43.6
52.5°	17.5	18.1	18.6	19.2	19.5	19.5	19.7	22.1	25.4	30.1	34.2
50°	17.7	18.2	18.8	19.3	19.7	19.6	19.5	19.6	22.5	26.2	29.7
47.5°	19.7	20.1	19.5	19.8	21.7	20.5	20.3	21.7	24.4	24.5	27.7
45°	25.9	26.9	24.2	27.5	29.0	28.0	23.8	29.2	30.7	30.1	27.1
42.5°	43.5	43.5	41.2	48.1	50.3	46.8	42.5	46.6	44.8	40.3	45.4
40°	75.6	72.4	75.1	82.6	84.9	79.3	80.9	75.5	70.5	59.4	77.2
37.5°	126.3	122.0	129.2	131.9	131.6	134.1	133.2	121.9	106.3	115.2	129.2
35°	202.8	197.9	205.8	202.3	194.2	214.6	208.2	183.0	170.4	184.6	193.9
32.5°	336.3	330.6	318.5	303.2	312.4	322.0	308.6	271.4	276.7	276.7	266.6
30°	543.7	518.8	475.6	477.6	494.7	467.3	432.5	445.5	427.1	389.1	351.8
27.5°	883.7	790.1	721.1	764.1	744.8	679.5	690.2	670.9	608.6	538.4	487.7
25°	1418.9	1258.2	1223.6	1199.6	1104.9	1085.3	1090.8	1000.0	852.7	750.6	820.0
22.5°	2152.3	2107.4	1971.3	1763.2	1806.7	1780.8	1628.7	1421.8	1268.6	1379.6	1291.1
20°	3577.7	3415.3	3023.3	3108.9	3101.9	2655.2	2301.6	2329.6	2418.4	2224.8	1882.8
17.5°	6502.9	5704.4	5422.1	5479.2	4975.1	4062.8	4065.5	4108.9	3805.1	3239.9	2576.1
15°	10793.6	10035.4	9408.1	8630.0	7715.7	7136.8	6654.3	6202.6	5428.6	4461.8	3585.4
12.5°	16716.3	15208.0	13821.3	12600.0	11557.1	10566.2	9615.9	8598.2	7337.4	6131.4	5120.4
10°	22840.5	20628.6	18781.3	17045.5	15486.9	14088.4	12583.3	11033.8	9449.2	7946.5	6655.7
7.5°	28512.2	26008.0	23688.3	21265.6	19000.0	17109.9	15304.4	13439.4	11529.1	9742.9	8176.5
5°	33358.4	30259.6	27352.9	24584.2	22088.6	19993.6	17964.0	15804.8	13553.5	11499.0	9662.3
2.5°	36617.2	33515.2	30569.5	27590.7	24768.8	22375.2	20050.4	17579.6	14975.8	12553.5	10481.6
0°	38855.5	35397.5	32232.0	28961.2	25971.3	23623.0	21290.4	18786.1	16049.7	13391.3	11232.3
-2.5°	37799.8	34495.7	31546.3	28395.2	25441.3	23068.5	20796.4	18518.8	15834.7	13300.2	11218.1
-5°	35741.8	32502.6	29572.3	26624.3	23893.1	21718.0	19679.5	17669.7	15265.0	13010.6	11118.9
-7.5°	32464.4	29816.7	27257.7	24546.8	22018.1	19989.6	18109.0	16214.5	14097.4	12090.6	10365.8
-10°	28695.4	26461.4	24227.9	21917.5	19889.6	18143.4	16441.0	14710.0	12869.4	11114.4	9572.1
-12.5°	25019.8	23087.7	21077.5	19094.9	17544.4	16166.8	14768.3	13234.9	11605.5	10096.7	8760.0
-15°	21216.8	20027.8	18543.3	16797.5	15296.7	14251.5	13162.7	11911.8	10506.6	9132.1	7946.1
-17.5°	18937.5	17565.7	16345.7	15100.2	13810.1	12539.8	11670.4	10680.3	9536.5	8378.2	7315.5
-20°	17014.8	15928.9	14764.4	13694.4	12645.2	11571.4	10496.2	9538.6	8629.2	7685.3	6793.1



REPORT NUMBER: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15472.1	14554.6	13576.7	12534.4	11590.2	10686.4	9731.8	8733.3	7773.7	7009.5	6270.7
-25°	14201.9	13357.0	12533.9	11652.0	10707.4	9828.0	8997.9	8131.4	7242.7	6397.3	5761.4
-27.5°	13100.9	12382.9	11613.7	10827.5	9990.3	9123.9	8336.4	7562.2	6775.6	6015.0	5306.1
-30°	12159.2	11526.1	10829.2	10090.8	9346.6	8558.6	7761.0	7059.9	6360.3	5664.4	5003.5
-32.5°	11344.1	10789.9	10147.4	9447.6	8751.3	8049.7	7326.3	6589.8	5958.4	5346.6	4740.3
-35°	10663.4	10126.9	9507.4	8863.3	8225.3	7576.7	6896.5	6222.4	5599.3	5030.1	4473.1
-37.5°	9935.4	9445.9	8874.8	8285.5	7711.7	7111.6	6477.4	5858.6	5263.7	4731.4	4223.8
-40°	9175.4	8715.4	8236.8	7707.3	7172.7	6636.2	6055.2	5479.4	4945.5	4436.5	3969.3
-42.5°	8416.9	8010.9	7587.5	7103.8	6614.5	6130.5	5619.0	5104.3	4615.3	4152.0	3716.1
-45°	7671.3	7303.3	6912.3	6514.4	6074.8	5631.3	5181.2	4731.0	4290.5	3863.9	3450.8
-47.5°	6947.4	6625.5	6290.8	5948.9	5548.0	5142.3	4759.8	4365.7	3959.0	3562.9	3197.8
-50°	6255.0	5985.2	5691.5	5377.9	5033.9	4680.0	4338.7	3988.1	3622.2	3276.2	2938.3
-52.5°	5626.8	5375.9	5105.8	4821.0	4541.2	4238.7	3921.7	3616.9	3301.2	2983.9	2679.8
-55°	4989.3	4780.3	4555.3	4325.1	4086.9	3804.0	3523.7	3249.3	2971.2	2682.2	2427.1
-57.5°	4391.1	4221.7	4023.3	3816.6	3603.0	3366.6	3122.2	2874.2	2642.5	2404.9	2175.0
-60°	3797.8	3653.6	3488.4	3316.3	3138.0	2938.4	2734.7	2530.3	2326.2	2134.0	1939.2
-62.5°	3241.2	3118.3	2983.6	2848.9	2705.0	2545.9	2370.8	2205.2	2040.3	1873.1	1712.5
-65°	2751.7	2653.0	2539.5	2427.7	2308.5	2181.2	2036.4	1900.4	1768.3	1632.8	1492.4
-67.5°	2331.6	2242.3	2145.7	2050.6	1958.3	1852.4	1739.0	1623.2	1515.5	1404.2	1286.6
-70°	2017.7	1940.5	1857.5	1766.9	1674.9	1579.9	1488.2	1394.9	1294.0	1200.6	1111.6
-72.5°	1801.6	1723.0	1640.5	1554.6	1461.7	1374.1	1296.7	1221.9	1140.3	1051.6	966.7
-75°	1616.7	1543.6	1471.0	1394.8	1317.5	1239.1	1159.2	1082.7	1008.4	936.7	864.5
-77.5°	1380.7	1317.0	1251.9	1184.7	1121.6	1063.3	1007.3	940.3	867.7	799.3	731.9
-80°	1041.8	995.6	949.8	905.2	860.8	816.9	772.2	720.5	671.5	622.0	568.1
-82.5°	662.5	641.1	618.1	591.3	563.2	534.0	503.4	467.3	431.7	396.6	361.7
-85°	326.3	320.3	313.2	301.9	289.9	277.1	263.6	248.1	232.1	215.9	199.3
-87.5°	119.4	117.9	116.2	112.6	109.0	105.3	101.5	97.2	92.8	88.2	83.5
-90°	4.9	5.4	5.9	6.4	6.9	7.3	7.8	7.8	7.8	7.8	7.8



REPORT NUMBER: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	20.0	18.6	17.1	15.6	15.1	14.7	14.2	13.7	13.2	12.7	12.2
87.5°	13.1	14.1	15.0	15.7	14.6	13.7	12.8	11.9	12.1	12.1	12.1
85°	24.4	24.0	23.9	24.0	22.0	19.5	17.7	16.1	16.4	16.5	16.3
82.5°	41.4	38.3	36.0	34.2	33.0	31.2	28.6	25.3	22.6	21.0	20.6
80°	67.8	60.5	53.8	48.0	44.7	43.0	40.8	37.3	31.4	27.1	24.6
77.5°	91.2	82.0	73.5	64.8	57.5	52.1	48.9	46.7	39.9	33.0	28.2
75°	111.5	100.1	89.2	78.5	68.6	60.6	54.2	49.5	43.8	38.2	31.7
72.5°	125.3	113.5	102.4	90.5	77.5	66.7	58.5	52.2	46.0	40.1	34.4
70°	135.2	124.1	112.1	98.5	84.8	71.9	61.3	54.2	48.1	41.8	35.8
67.5°	141.3	128.7	117.3	105.0	90.8	76.9	63.8	55.9	49.7	43.4	37.1
65°	126.3	123.6	119.8	106.6	94.1	81.3	67.3	58.1	51.1	44.7	38.3
62.5°	107.2	109.4	107.5	104.3	94.7	82.5	70.9	61.4	52.7	45.9	39.3
60°	83.7	89.9	93.9	93.0	90.1	82.2	71.9	64.5	55.2	46.9	40.2
57.5°	64.9	70.9	77.4	81.1	80.5	77.5	72.3	65.6	57.5	48.6	41.2
55°	49.2	56.3	63.1	68.5	71.0	69.5	70.6	65.8	59.0	50.1	42.5
52.5°	39.5	45.4	51.7	57.7	61.6	62.9	65.7	65.9	59.1	51.5	44.3
50°	33.4	40.0	44.2	48.9	53.6	57.7	61.4	62.6	59.0	52.3	46.2
47.5°	33.5	39.8	42.4	43.0	46.9	53.0	57.4	59.5	58.8	52.1	48.0
45°	40.5	45.0	45.1	43.9	43.1	50.2	53.8	56.7	56.6	53.3	49.9
42.5°	54.4	58.0	54.0	46.6	51.2	49.3	50.8	54.1	54.6	54.8	51.5
40°	83.7	78.6	68.0	67.0	67.4	50.4	51.2	51.8	53.2	56.1	52.9
37.5°	121.7	110.8	92.8	98.9	92.0	70.8	53.2	49.9	54.6	57.2	54.4
35°	182.3	153.9	143.5	142.7	127.9	96.4	56.5	50.2	57.0	58.7	56.1
32.5°	254.6	229.4	218.6	195.5	170.4	126.9	73.7	60.0	60.7	60.7	57.8
30°	349.2	360.2	309.6	254.0	219.8	167.2	110.4	72.3	65.6	63.1	59.6
27.5°	537.5	519.9	421.6	336.6	274.8	217.2	172.9	86.9	71.8	66.4	61.5
25°	785.4	712.9	576.5	435.2	333.3	368.2	251.5	105.2	82.1	71.1	63.5
22.5°	1120.0	941.4	750.7	542.5	561.5	559.7	360.3	164.9	95.2	76.4	65.8
20°	1509.4	1201.1	1011.2	938.5	846.9	764.4	506.9	233.1	109.3	82.3	68.2
17.5°	1964.6	1768.2	1664.5	1422.4	1177.3	988.0	675.2	308.0	124.3	88.6	70.8
15°	3060.0	2719.9	2391.6	1956.2	1534.7	1226.9	860.6	387.7	139.8	95.2	77.9
12.5°	4321.5	3714.9	3175.2	2528.2	1912.2	1477.0	1057.7	469.9	155.5	110.5	91.1
10°	5607.7	4739.6	3998.6	3125.9	2302.6	1733.9	1260.8	561.9	192.5	132.8	104.8
7.5°	6901.2	5778.8	4843.6	3735.2	2687.4	1985.3	1476.0	671.5	233.4	155.5	118.7
5°	8079.7	6655.9	5529.5	4225.2	3008.2	2222.6	1684.4	776.7	274.2	178.2	132.6
2.5°	8779.9	7255.4	6086.0	4673.6	3312.1	2449.8	1878.8	875.0	314.4	200.6	146.4
0°	9422.3	7813.2	6600.1	5086.6	3594.6	2664.2	2053.8	963.5	353.0	222.3	159.9
-2.5°	9371.6	7823.3	6587.3	5148.1	3721.9	2776.1	2129.7	1071.9	460.3	300.1	211.2
-5°	9263.5	7786.8	6531.9	5170.4	3822.2	2870.6	2183.3	1168.1	563.9	375.8	261.1
-7.5°	8785.4	7500.8	6351.6	5132.5	3894.6	2945.7	2217.2	1252.2	662.5	448.4	309.1
-10°	8199.6	7054.9	6001.2	4885.4	3785.9	2937.7	2224.3	1324.6	754.8	516.7	354.4
-12.5°	7594.0	6591.7	5638.4	4620.7	3632.7	2856.4	2155.2	1354.0	836.2	580.0	396.3
-15°	6979.0	6119.1	5272.1	4344.8	3468.0	2764.3	2080.2	1360.4	885.7	631.5	434.1
-17.5°	6397.1	5644.4	4910.5	4063.8	3295.2	2663.1	2003.1	1360.6	928.8	670.9	467.0
-20°	5986.1	5252.0	4559.2	3783.3	3117.4	2554.2	1927.5	1355.7	965.2	705.6	495.5



REPORT NUMBER: P701649 (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°	5577.4	4921.7	4257.3	3548.0	2953.1	2439.1	1856.5	1346.7	994.7	735.3	519.9
-25°	5165.4	4587.0	3973.8	3361.4	2809.7	2328.7	1808.9	1334.8	1016.8	759.9	540.0
-27.5°	4780.3	4256.8	3702.5	3173.9	2683.8	2234.6	1779.3	1353.1	1035.1	779.0	555.6
-30°	4409.4	3958.8	3477.9	2996.7	2552.6	2141.1	1750.2	1363.9	1053.3	794.3	566.4
-32.5°	4156.1	3685.6	3269.3	2844.1	2433.0	2042.9	1694.9	1365.3	1064.5	804.4	576.1
-35°	3958.9	3481.9	3070.1	2688.9	2315.7	1956.2	1626.4	1357.4	1068.6	808.0	582.4
-37.5°	3743.3	3304.8	2899.3	2542.0	2194.0	1861.9	1566.5	1313.0	1065.5	805.2	584.2
-40°	3532.7	3119.6	2740.6	2405.2	2078.9	1760.3	1500.1	1266.6	1055.5	795.8	581.5
-42.5°	3305.5	2930.3	2583.7	2264.8	1960.3	1679.5	1428.9	1213.7	1012.7	785.1	574.1
-45°	3082.2	2734.3	2419.0	2124.1	1839.8	1592.6	1362.8	1154.7	961.5	771.1	562.9
-47.5°	2849.1	2540.8	2250.1	1973.9	1736.0	1501.9	1289.3	1092.0	906.1	750.6	548.1
-50°	2624.5	2342.9	2077.3	1835.6	1617.9	1411.9	1210.0	1024.2	854.8	706.1	528.4
-52.5°	2402.1	2146.0	1910.1	1694.4	1500.5	1314.0	1128.5	952.4	798.9	659.1	503.9
-55°	2179.6	1953.3	1743.1	1555.1	1378.8	1213.0	1041.7	882.9	738.5	609.4	475.2
-57.5°	1965.3	1759.2	1583.1	1415.6	1255.5	1104.7	953.9	808.4	677.1	557.0	444.7
-60°	1752.0	1584.2	1424.7	1273.4	1128.8	994.6	863.1	731.2	613.2	503.0	404.1
-62.5°	1556.5	1406.5	1262.9	1126.9	1003.0	884.9	768.8	654.6	546.3	452.0	359.5
-65°	1361.1	1228.4	1096.8	987.8	879.4	776.3	677.9	574.8	485.1	399.5	316.3
-67.5°	1167.6	1063.4	950.4	849.9	765.3	678.6	585.4	502.9	424.4	345.6	278.6
-70°	1017.0	914.8	818.6	739.5	662.9	583.3	508.6	433.9	362.4	302.3	240.1
-72.5°	888.7	804.7	714.8	634.6	573.4	506.8	434.8	367.2	314.0	258.6	201.1
-75°	785.0	700.5	621.9	555.1	494.9	430.0	367.2	314.3	265.2	214.3	166.2
-77.5°	659.8	593.0	531.9	465.7	404.0	349.3	302.1	261.0	214.8	170.8	131.9
-80°	506.5	448.6	394.8	345.5	302.7	265.6	232.0	197.8	160.1	126.4	96.7
-82.5°	322.5	290.5	261.4	234.0	207.8	181.8	156.1	130.5	104.3	80.9	66.8
-85°	181.5	164.5	148.3	133.0	115.0	97.3	86.4	76.1	66.4	57.3	48.8
-87.5°	79.9	76.2	72.3	68.2	62.0	56.1	50.4	45.0	39.9	35.0	30.5
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8



REPORT NUMBER: P701649 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	11.7	11.2	10.8	10.3	9.8	8.8	7.8
87.5°	11.8	10.9	10.0	9.3	8.7	8.1	7.8
85°	15.8	13.9	12.2	10.7	9.5	8.5	7.8
82.5°	19.8	16.9	14.4	12.2	10.3	8.8	7.8
80°	23.5	19.9	16.5	13.6	11.2	9.2	7.8
77.5°	25.3	22.2	18.6	15.0	12.0	9.5	7.8
75°	27.0	23.1	20.4	16.4	12.8	9.8	7.8
72.5°	28.6	24.0	20.7	17.7	13.6	10.1	7.8
70°	30.0	24.8	21.0	18.8	14.3	10.4	7.8
67.5°	31.2	25.4	21.2	18.7	15.1	10.7	7.8
65°	32.4	26.2	21.3	18.6	15.8	11.0	7.8
62.5°	33.5	27.3	21.4	18.4	16.4	11.3	7.8
60°	34.7	28.4	21.3	18.2	17.1	11.6	7.8
57.5°	35.9	29.4	22.2	18.0	16.9	11.9	7.8
55°	37.3	30.5	23.1	17.6	16.8	12.1	7.8
52.5°	38.7	31.5	23.9	17.3	16.6	12.3	7.8
50°	40.1	32.8	24.7	16.9	16.5	12.6	7.8
47.5°	41.7	34.1	25.5	16.7	16.4	12.8	7.8
45°	43.3	35.5	26.3	17.2	16.3	12.9	7.8
42.5°	44.9	36.8	27.0	17.8	16.3	13.1	7.8
40°	46.5	38.2	27.8	18.6	16.3	13.3	7.8
37.5°	48.1	39.5	28.8	19.6	16.3	13.4	7.8
35°	49.6	40.8	29.8	20.7	16.3	13.5	7.8
32.5°	51.1	42.0	30.8	21.7	16.3	13.7	7.8
30°	52.4	43.1	31.7	22.8	16.3	13.8	7.8
27.5°	53.8	44.2	33.6	23.8	16.4	13.8	7.8
25°	55.2	45.2	35.7	24.9	16.5	13.9	7.8
22.5°	56.6	46.9	37.8	25.9	16.6	13.9	7.8
20°	58.0	50.6	39.9	26.9	16.7	14.0	7.8
17.5°	63.0	54.5	42.0	27.9	16.8	14.0	7.8
15°	70.6	58.5	44.1	28.8	16.9	14.0	7.8
12.5°	78.5	62.5	46.1	29.7	17.0	14.0	7.8
10°	86.6	66.6	48.0	30.5	17.2	13.9	7.8
7.5°	94.9	70.6	49.8	31.3	17.3	13.9	7.8
5°	103.1	74.5	51.5	32.0	17.4	13.8	7.8
2.5°	111.2	78.3	53.1	32.6	17.5	13.8	7.8
0°	119.0	81.9	54.6	33.2	17.6	13.7	7.8
-2.5°	150.1	99.7	63.8	37.3	19.0	14.0	7.8
-5°	180.3	117.0	72.7	41.2	20.3	14.3	7.8
-7.5°	209.3	133.6	81.2	44.9	21.6	14.5	7.8
-10°	236.6	149.3	89.3	48.5	22.8	14.8	7.8
-12.5°	262.0	163.8	96.8	51.7	24.0	15.0	7.8
-15°	285.0	177.1	103.6	54.7	25.1	15.2	7.8
-17.5°	305.2	188.8	109.7	57.3	26.1	15.4	7.8
-20°	324.3	198.9	114.9	59.6	27.1	15.6	7.8



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	343.5	207.2	119.1	61.5	27.9	15.7	7.8
-25°	359.9	217.8	122.4	62.9	28.7	15.8	7.8
-27.5°	373.2	228.0	124.7	63.9	29.3	15.9	7.8
-30°	383.4	236.0	126.2	64.4	29.8	15.9	7.8
-32.5°	390.4	241.6	130.3	64.4	30.2	15.9	7.8
-35°	395.8	244.8	132.9	63.9	30.4	15.9	7.8
-37.5°	398.4	246.3	133.9	62.9	30.6	15.9	7.8
-40°	397.4	246.8	133.4	61.3	30.5	15.8	7.8
-42.5°	392.8	244.8	132.5	59.8	30.4	15.7	7.8
-45°	384.4	240.2	131.2	58.8	30.1	15.6	7.8
-47.5°	372.4	233.1	128.6	57.0	29.7	15.4	7.8
-50°	359.2	223.6	124.6	56.5	29.1	15.2	7.8
-52.5°	343.0	211.6	119.3	55.9	28.4	15.0	7.8
-55°	323.3	200.8	112.6	54.7	27.5	14.7	7.8
-57.5°	300.2	188.8	104.7	53.0	26.6	14.4	7.8
-60°	274.8	174.8	95.8	50.7	25.5	14.1	7.8
-62.5°	252.2	159.0	89.9	47.9	24.5	13.8	7.8
-65°	227.2	141.5	83.2	44.6	23.5	13.4	7.8
-67.5°	200.0	125.5	75.5	40.8	22.4	13.0	7.8
-70°	170.6	111.5	67.1	36.6	21.2	12.6	7.8
-72.5°	146.8	96.3	58.0	33.5	19.9	12.2	7.8
-75°	122.6	80.2	48.3	30.6	18.6	11.7	7.8
-77.5°	97.1	63.1	41.8	27.5	17.2	11.3	7.8
-80°	70.7	50.9	35.9	24.2	15.8	10.8	7.8
-82.5°	55.1	41.3	29.8	20.8	14.3	10.3	7.8
-85°	40.8	31.4	23.5	17.4	12.8	9.8	7.8
-87.5°	26.3	21.3	17.2	13.8	11.3	9.3	7.8
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8

(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

