

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: P701623 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-7F-CV1-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701623 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-70-7F-CV1-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

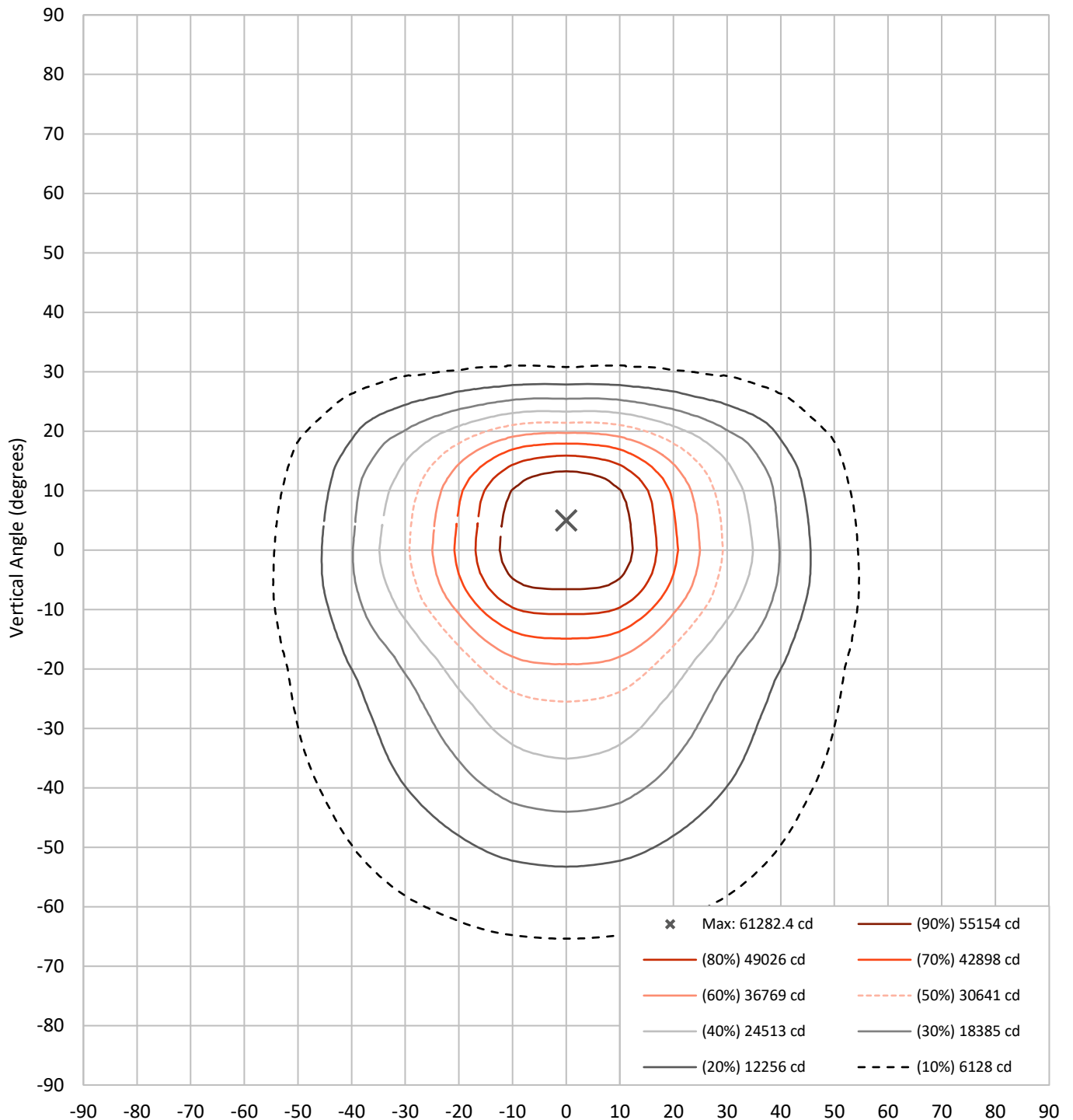
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	60046.4 lumens	Max Intensity:	61282.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	86.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	28881.1 lumens	Field Lumens:	55664.8 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

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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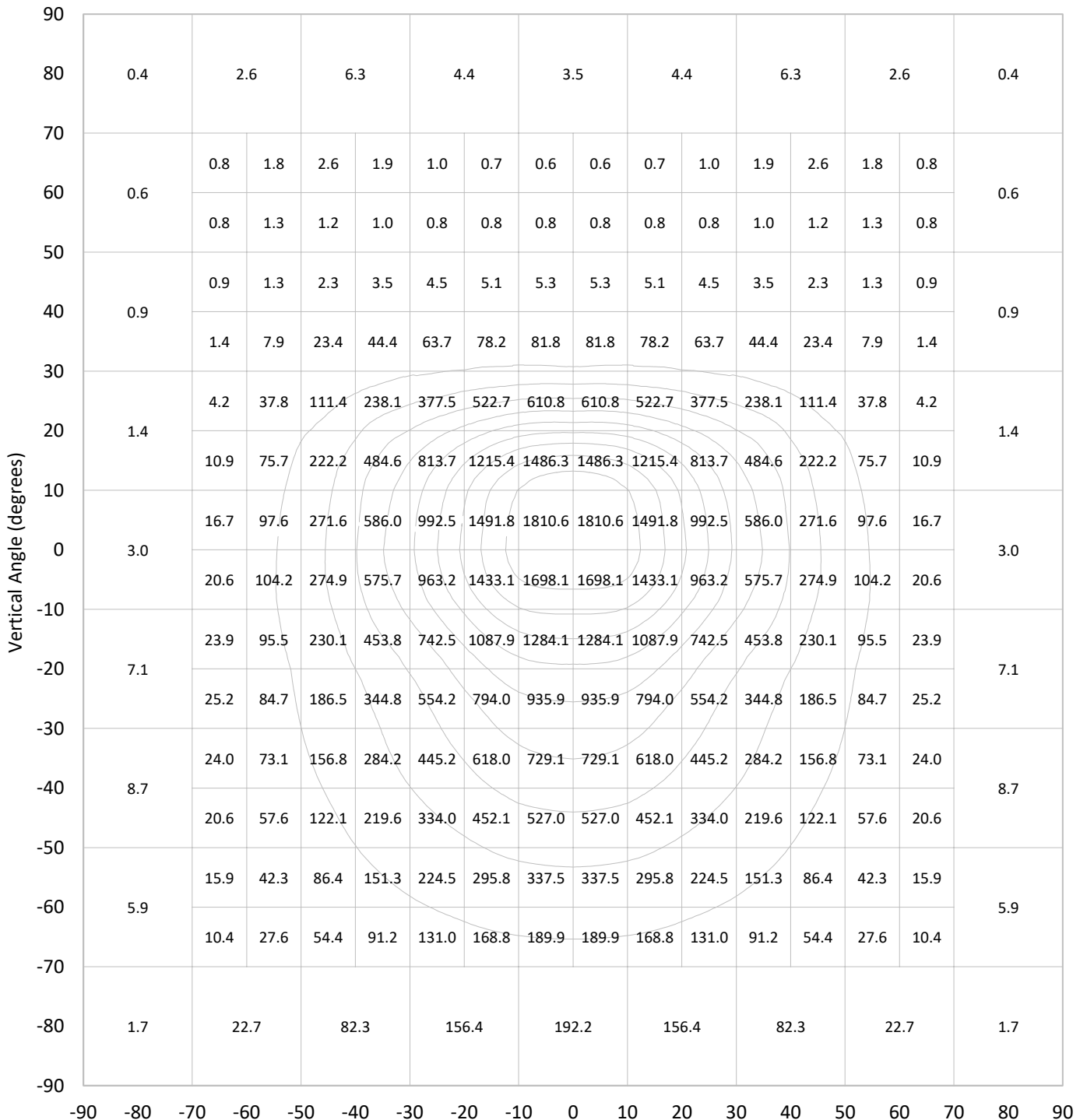
Iso-Candela Plot





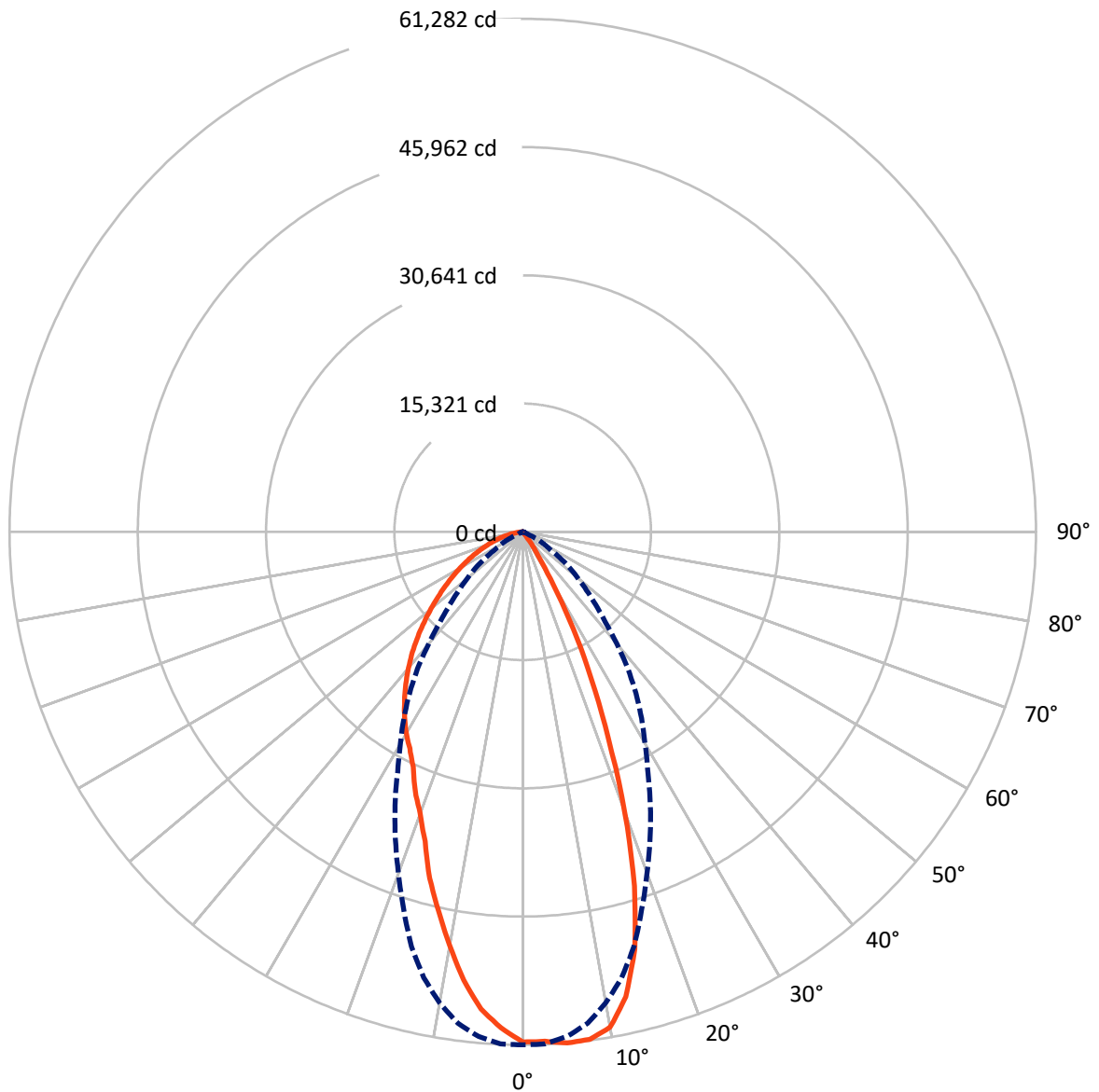
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Lumen Table



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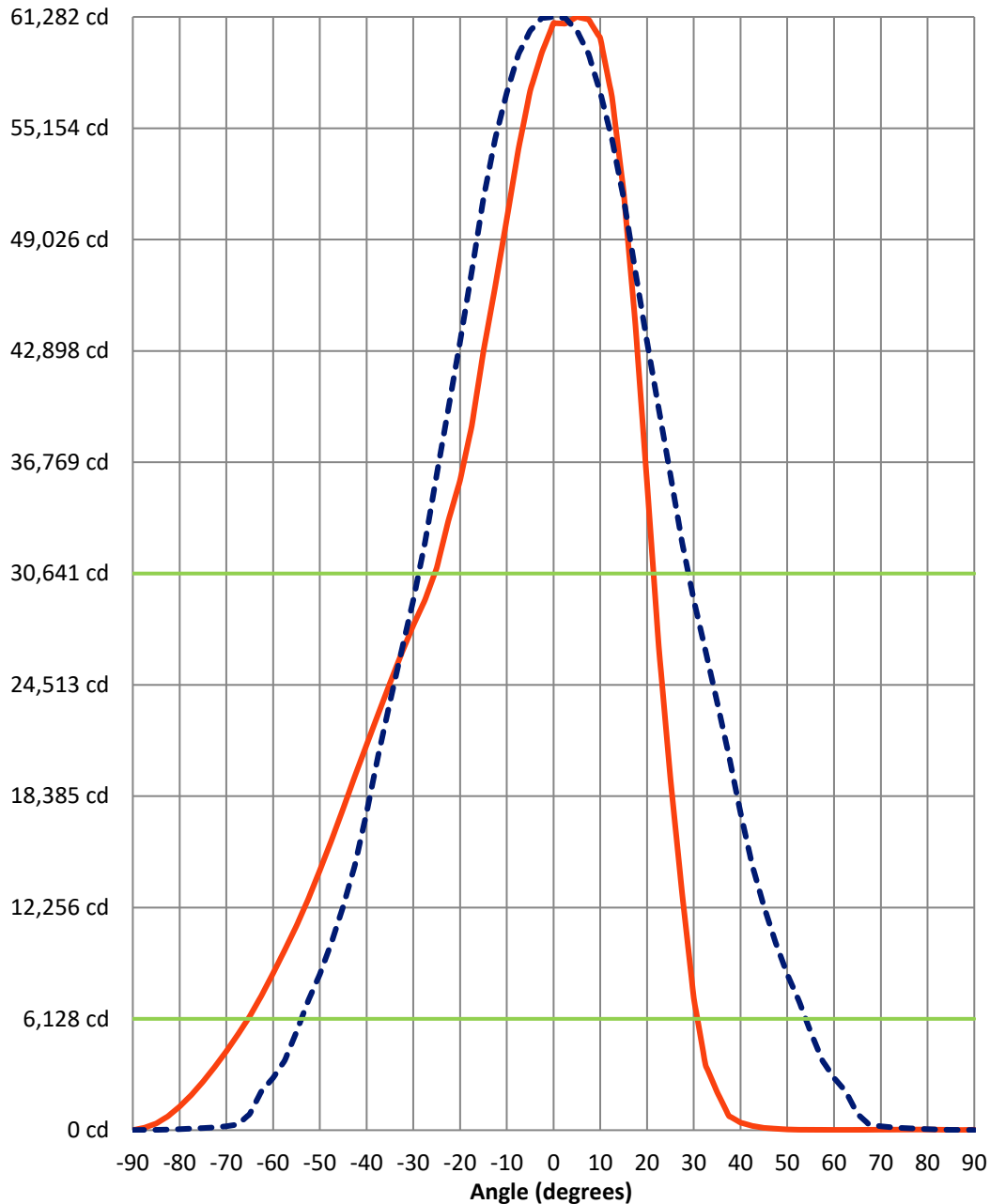
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
H Angle: 57.7°
V Angle: 46.8°
Lumens: 28881.1
Efficiency: 48.1%

Field:
H Angle: 107.9°
V Angle: 96.1°
Lumens: 55664.8
Efficiency: 92.7%

Spill:
Lumens: 4381.6
Efficiency: 7.3%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-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°	8.4	9.5	10.5	11.0	11.6	12.1	12.6	13.1	13.7	14.2	14.7
87.5°	8.4	9.8	11.2	11.3	11.6	12.1	12.7	12.6	12.4	12.1	11.6
85°	8.4	10.1	12.0	12.7	13.8	15.3	17.1	17.4	17.4	17.3	17.0
82.5°	8.4	10.4	12.7	14.1	16.0	18.4	21.4	22.1	22.5	23.7	26.1
80°	8.4	10.7	13.4	15.4	18.1	21.5	25.2	25.6	27.7	31.6	37.2
77.5°	8.4	11.0	14.1	16.7	20.2	23.6	26.1	28.3	32.6	39.2	45.7
75°	8.4	11.3	14.7	18.0	21.9	24.0	27.0	30.8	36.9	42.0	47.1
72.5°	8.4	11.6	15.4	19.2	21.9	24.4	27.8	32.6	37.9	43.1	48.3
70°	8.4	11.9	16.0	20.2	21.9	24.7	28.5	33.4	38.8	44.2	50.9
67.5°	8.4	12.2	16.6	20.0	21.9	24.9	29.3	34.2	39.7	46.7	53.6
65°	8.4	12.4	17.2	19.8	21.8	25.4	30.1	34.9	41.8	49.0	56.6
62.5°	8.4	12.7	17.8	19.5	21.6	26.2	31.0	36.3	43.8	51.4	60.3
60°	8.4	12.9	18.3	19.3	21.4	27.1	31.8	37.9	45.7	54.2	63.7
57.5°	8.4	13.1	18.2	19.0	22.1	27.9	33.4	39.6	47.7	56.8	65.4
55°	8.4	13.4	18.0	18.6	22.9	28.7	35.1	41.4	49.5	58.7	66.4
52.5°	8.4	13.6	17.9	18.3	23.6	29.6	36.7	43.5	51.0	59.8	67.5
50°	8.4	13.8	17.7	17.9	24.3	31.0	38.3	45.8	52.3	61.0	67.8
47.5°	8.4	14.0	17.6	17.7	25.0	32.3	40.0	48.2	53.3	62.1	69.0
45°	8.4	14.1	17.6	18.2	25.6	33.5	42.3	50.9	56.4	64.3	71.1
42.5°	8.4	14.3	17.5	18.7	26.3	34.7	44.8	53.9	59.9	67.2	74.7
40°	8.4	14.4	17.5	19.4	27.0	35.9	47.3	57.3	64.3	71.2	79.4
37.5°	8.4	14.5	17.5	20.4	27.9	36.9	49.9	61.0	70.1	78.1	85.2
35°	8.4	14.7	17.5	21.4	28.7	38.7	52.7	64.9	76.1	86.4	93.5
32.5°	8.4	14.8	17.5	22.5	29.4	40.7	55.5	69.1	82.4	95.8	109.0
30°	8.4	14.8	17.6	23.6	30.1	42.7	58.8	73.7	88.9	106.1	126.8
27.5°	8.4	14.9	17.6	24.7	32.2	44.8	62.1	78.9	96.3	117.3	146.8
25°	8.4	15.0	17.7	25.8	34.6	46.7	65.5	84.3	105.3	132.3	170.9
22.5°	8.4	15.0	17.8	26.9	37.2	49.6	68.8	89.6	114.6	149.7	250.8
20°	8.4	15.0	17.9	28.0	39.8	55.0	72.2	94.9	124.2	168.0	340.3
17.5°	8.4	15.0	18.1	29.1	42.6	60.4	78.4	100.1	133.9	186.8	437.2
15°	8.4	15.0	18.2	30.2	45.3	65.9	86.2	108.0	143.6	205.9	539.1
12.5°	8.4	15.0	18.3	31.3	48.1	71.4	94.1	119.5	158.6	225.0	643.5
10°	8.4	15.0	18.4	32.3	50.8	76.8	101.8	131.0	178.0	254.5	742.0
7.5°	8.4	14.9	18.6	33.2	53.5	82.0	109.3	142.3	197.3	285.0	822.0
5°	8.4	14.9	18.7	34.1	56.1	87.1	116.5	153.4	216.3	314.6	891.9
2.5°	8.4	14.8	18.8	35.0	58.6	92.0	123.5	164.1	234.6	343.0	950.7
0°	8.4	14.7	18.9	35.7	60.9	96.6	130.2	174.3	252.0	369.7	997.6
-2.5°	8.4	15.0	20.4	40.1	70.8	115.5	162.9	229.2	337.6	494.5	1127.8
-5°	8.4	15.2	21.8	44.3	80.4	133.8	194.7	282.6	420.6	615.3	1245.3
-7.5°	8.4	15.5	23.2	48.3	89.5	151.3	225.4	333.9	499.9	730.3	1349.9
-10°	8.4	15.7	24.5	52.1	98.1	167.8	254.4	382.1	574.2	837.9	1441.8
-12.5°	8.4	15.9	25.8	55.7	106.1	183.0	281.4	426.6	642.3	936.4	1527.6
-15°	8.4	16.1	27.0	58.9	113.4	196.8	306.0	466.7	706.8	1025.3	1601.0
-17.5°	8.4	16.2	28.1	61.7	119.8	209.0	327.9	509.5	769.1	1103.9	1657.8
-20°	8.4	16.4	29.0	64.1	125.3	219.4	351.8	553.3	824.0	1171.3	1697.4



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-CV1-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.4	16.5	29.9	66.2	129.7	227.8	380.4	591.4	870.9	1226.6	1719.2
-25°	8.4	16.6	30.7	67.7	133.1	240.7	404.7	623.4	909.4	1269.0	1722.9
-27.5°	8.4	16.6	31.3	68.8	135.4	253.6	424.5	648.9	938.9	1302.4	1763.8
-30°	8.4	16.7	31.8	69.3	137.0	263.7	439.5	667.6	964.2	1332.1	1789.6
-32.5°	8.4	16.7	32.1	69.3	142.1	270.8	449.5	683.5	983.2	1349.8	1797.4
-35°	8.4	16.6	32.3	68.8	145.5	274.8	456.7	693.6	992.5	1355.2	1786.8
-37.5°	8.4	16.6	32.3	67.7	147.0	276.6	460.1	696.3	992.2	1348.0	1734.0
-40°	8.4	16.5	32.2	66.0	146.7	277.7	458.7	691.5	982.0	1335.5	1678.3
-42.5°	8.4	16.4	31.9	64.5	145.9	275.6	452.6	679.2	966.4	1290.1	1612.1
-45°	8.4	16.2	31.5	63.7	145.0	270.6	441.6	662.3	943.2	1232.8	1537.4
-47.5°	8.4	16.0	30.9	62.1	142.5	262.5	425.9	642.8	909.6	1167.6	1463.1
-50°	8.4	15.8	30.1	61.5	138.5	251.5	410.3	616.9	853.3	1102.4	1379.3
-52.5°	8.4	15.6	29.2	60.9	132.9	237.5	391.3	584.7	798.5	1029.7	1287.4
-55°	8.4	15.3	28.2	59.6	125.9	225.8	368.1	547.2	741.1	949.9	1195.0
-57.5°	8.4	15.0	26.9	57.6	117.4	212.7	340.9	511.1	678.2	872.4	1094.6
-60°	8.4	14.7	25.6	54.9	107.7	197.4	311.0	465.6	612.4	791.0	990.4
-62.5°	8.4	14.4	24.7	51.7	101.0	180.0	286.1	415.1	551.0	703.6	887.3
-65°	8.4	14.0	23.7	47.9	93.2	160.7	258.4	365.3	485.8	622.7	777.4
-67.5°	8.4	13.6	22.6	43.5	84.4	142.8	228.1	322.3	417.1	540.5	675.1
-70°	8.4	13.2	21.4	38.7	74.7	126.6	195.4	277.1	361.3	454.5	573.6
-72.5°	8.4	12.8	20.2	35.4	64.2	109.1	168.1	230.2	303.5	384.4	472.7
-75°	8.4	12.4	18.9	32.4	53.0	90.5	140.2	189.3	243.6	312.2	387.2
-77.5°	8.4	11.9	17.6	29.1	45.8	70.9	110.9	149.9	193.0	241.6	299.1
-80°	8.4	11.4	16.2	25.7	39.3	57.0	80.4	109.4	142.3	179.5	220.9
-82.5°	8.4	10.9	14.8	22.2	32.6	46.1	62.5	75.2	90.5	116.1	144.9
-85°	8.4	10.5	13.4	18.5	25.7	34.9	46.1	54.7	63.8	73.5	83.7
-87.5°	8.4	10.0	12.0	14.8	18.6	23.5	29.4	33.9	38.8	43.9	49.3
-90°	8.4	9.5	10.5	10.0	9.5	8.9	8.4	7.9	7.4	6.8	6.3



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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°	14.7	14.7	14.7	14.7	15.2	15.8	16.3	16.8	17.9	18.9	20.0
87.5°	12.4	13.1	13.9	14.7	13.7	12.4	10.9	9.3	9.8	10.3	10.9
85°	18.4	19.9	21.8	23.1	22.1	21.2	20.6	20.1	21.2	22.2	22.9
82.5°	28.7	30.5	31.5	31.7	32.3	33.3	35.1	38.8	41.3	42.9	43.7
80°	40.0	41.2	42.1	44.8	49.8	55.7	62.3	69.5	71.8	72.1	71.2
77.5°	47.0	49.4	54.4	61.7	70.0	78.3	87.4	97.3	100.2	99.3	97.5
75°	51.0	57.0	65.6	76.2	87.1	98.3	110.2	121.4	124.6	121.1	116.4
72.5°	54.9	64.0	75.5	89.3	101.3	112.8	125.6	139.7	144.6	137.4	129.0
70°	58.8	70.3	83.4	97.0	110.7	123.8	136.3	149.8	157.8	146.6	129.6
67.5°	62.2	75.5	89.5	103.5	115.9	128.7	142.8	148.5	152.1	134.1	114.8
65°	66.1	80.2	92.9	105.4	118.6	123.9	128.4	133.3	132.6	112.0	91.5
62.5°	70.0	81.6	93.8	103.6	106.8	109.9	109.9	106.8	101.7	87.6	70.0
60°	71.4	81.5	89.8	93.1	93.9	90.9	86.9	83.0	76.8	64.9	52.9
57.5°	72.2	77.6	81.5	82.5	78.9	72.9	70.2	63.9	58.7	51.8	41.9
55°	71.8	71.2	73.4	71.5	67.2	62.3	57.4	53.3	46.9	44.7	40.3
52.5°	70.0	66.8	65.8	63.6	60.7	55.7	50.9	47.6	46.0	43.4	39.7
50°	69.3	65.2	60.2	60.0	57.7	54.0	48.9	48.2	48.3	46.0	41.8
47.5°	70.2	65.3	58.9	59.1	59.3	60.6	56.3	54.3	55.1	61.2	54.6
45°	72.5	69.9	63.2	63.1	68.9	76.8	83.7	64.4	83.9	93.6	101.3
42.5°	76.3	77.5	80.9	69.0	91.2	119.2	132.7	139.6	132.4	163.0	194.7
40°	84.7	87.7	111.2	120.4	129.9	188.0	268.5	287.4	218.3	303.6	356.4
37.5°	95.2	124.8	165.6	214.9	210.4	331.7	457.9	554.6	545.1	515.4	738.1
35°	107.1	170.5	280.5	390.4	438.6	553.5	786.2	954.8	1055.0	1115.6	1299.0
32.5°	140.1	224.7	424.2	657.6	858.6	972.6	1192.3	1561.7	1911.3	2120.0	2117.9
30°	198.0	358.0	627.0	985.6	1376.3	1696.7	1878.4	2353.1	3019.4	3493.2	3808.9
27.5°	283.6	520.0	939.7	1459.3	2006.7	2550.8	2913.3	3530.2	4426.7	5148.8	5823.3
25°	388.2	777.3	1292.1	2022.7	2827.6	3518.7	4040.3	4897.7	6033.6	7166.2	8294.6
22.5°	554.7	1076.2	1683.0	2638.6	3733.5	4519.0	5285.2	6330.2	7644.0	9234.0	10954.6
20°	786.8	1424.0	2100.5	3121.9	4639.5	5537.3	6478.0	7725.2	9257.5	11190.0	13487.2
17.5°	1037.6	1752.4	2509.9	3648.5	5129.3	6373.4	7636.4	9057.9	10775.0	13016.8	15491.4
15°	1301.4	2061.2	2875.7	4118.8	5587.7	6931.8	8426.3	10275.1	12300.0	14724.4	17313.0
12.5°	1571.9	2350.4	3199.7	4533.0	6025.4	7437.8	9031.6	10954.4	13310.1	16154.0	18871.4
10°	1842.3	2619.8	3484.6	4891.9	6435.9	7890.2	9551.4	11518.8	13915.5	16764.7	19701.9
7.5°	2008.1	2797.5	3717.4	5196.7	6812.4	8288.1	9987.8	11972.2	14334.8	17201.4	20228.4
5°	2133.5	2877.4	3838.4	5404.3	7110.1	8582.8	10328.3	12319.6	14587.3	17467.5	20628.3
2.5°	2231.0	2936.3	3935.1	5558.6	7335.1	8743.0	10531.0	12541.9	14850.3	17798.2	21032.1
0°	2299.8	2976.1	4005.3	5664.5	7504.4	8846.4	10663.2	12675.3	15033.9	18085.6	21391.5
-2.5°	2366.7	3099.2	4147.9	5799.6	7528.8	8861.8	10713.5	12680.7	15033.8	18029.8	21242.5
-5°	2408.7	3201.6	4260.6	5884.6	7503.8	8830.2	10685.7	12604.6	14870.0	17702.9	20690.5
-7.5°	2430.5	3280.0	4341.9	5897.4	7374.2	8643.9	10351.7	12155.6	14329.2	16983.9	19738.5
-10°	2442.1	3327.2	4333.2	5719.9	7105.0	8344.4	9905.8	11633.9	13681.5	16150.1	18698.8
-12.5°	2474.2	3352.8	4294.0	5526.1	6812.7	8005.9	9411.2	11047.7	12930.1	15217.6	17556.0
-15°	2491.6	3365.7	4239.5	5326.1	6505.4	7630.9	8875.8	10402.5	12116.3	14162.4	16237.2
-17.5°	2496.4	3368.1	4173.0	5129.1	6190.6	7222.1	8349.1	9849.6	11410.0	13177.0	14946.4
-20°	2491.0	3361.8	4097.7	4943.7	5881.2	6925.2	8062.9	9372.0	10768.8	12262.9	13737.0



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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°	2477.2	3348.6	4034.2	4812.2	5732.6	6730.6	7777.2	8909.9	10111.8	11409.3	12904.2
-25°	2470.3	3300.5	3991.7	4719.1	5588.8	6526.0	7476.7	8483.1	9531.0	10889.8	12315.6
-27.5°	2459.5	3249.7	3908.3	4589.9	5422.4	6319.2	7211.0	8129.5	9205.4	10426.1	11749.3
-30°	2427.0	3126.9	3794.9	4438.7	5246.4	6110.4	6961.9	7835.2	8853.1	10004.0	11231.6
-32.5°	2335.7	2987.5	3644.2	4290.9	5034.5	5881.5	6704.8	7551.6	8495.9	9527.2	10708.1
-35°	2233.5	2843.7	3475.3	4107.7	4787.0	5603.9	6405.0	7223.3	8100.0	9067.5	10168.5
-37.5°	2159.1	2689.2	3294.3	3901.2	4553.2	5279.0	6064.6	6852.3	7682.2	8604.2	9645.5
-40°	2070.5	2524.6	3110.8	3691.6	4285.1	4954.2	5688.2	6444.2	7223.3	8142.7	9097.0
-42.5°	1971.4	2410.0	2920.4	3469.3	4029.0	4637.3	5292.2	6011.6	6793.3	7648.6	8544.6
-45°	1885.9	2281.2	2730.0	3243.7	3763.7	4314.7	4922.1	5565.3	6337.4	7133.2	7965.3
-47.5°	1788.7	2146.6	2568.7	3005.2	3495.0	4003.1	4540.3	5166.8	5852.7	6597.9	7361.2
-50°	1683.5	2024.7	2384.6	2790.5	3224.7	3689.8	4180.2	4751.8	5377.9	6043.7	6746.0
-52.5°	1577.7	1890.2	2221.5	2574.8	2969.1	3387.0	3841.4	4350.4	4904.5	5487.9	6107.7
-55°	1461.8	1753.6	2055.1	2375.5	2719.4	3098.6	3504.8	3959.9	4436.3	4965.2	5486.4
-57.5°	1342.6	1606.5	1884.7	2181.4	2490.4	2812.8	3181.0	3566.4	3996.9	4449.0	4909.0
-60°	1218.2	1454.6	1706.7	1979.5	2266.6	2557.1	2855.3	3196.8	3562.2	3937.9	4349.0
-62.5°	1087.8	1300.0	1525.4	1767.2	2030.0	2292.9	2560.3	2842.8	3138.8	3476.2	3819.3
-65°	958.4	1141.2	1341.9	1557.1	1782.2	2018.3	2258.0	2500.0	2759.0	3037.0	3325.8
-67.5°	822.1	987.2	1159.8	1342.4	1542.3	1742.7	1952.0	2170.8	2390.9	2616.1	2853.3
-70°	699.3	830.3	980.6	1140.1	1301.5	1465.6	1646.5	1834.3	2026.1	2217.7	2414.8
-72.5°	575.6	688.1	808.3	935.7	1071.2	1206.4	1347.6	1494.1	1649.8	1811.1	1974.9
-75°	463.1	542.9	641.4	747.6	851.1	952.9	1058.8	1177.9	1301.2	1425.6	1549.6
-77.5°	359.2	422.8	491.3	564.5	636.4	718.2	802.0	887.4	976.7	1068.4	1161.2
-80°	260.0	300.2	350.8	405.4	457.6	510.5	564.9	620.6	678.8	743.0	812.4
-82.5°	172.3	200.9	231.0	262.4	291.5	320.4	351.3	389.2	427.5	466.7	506.8
-85°	92.1	100.6	118.4	137.1	155.6	174.2	192.8	211.3	230.3	248.8	266.7
-87.5°	53.5	57.7	62.1	66.5	71.1	75.8	80.4	85.1	91.3	97.7	104.0
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	21.0	21.5	22.1	22.6	23.1	23.6	24.2	24.7	25.2	25.7	26.3
87.5°	11.5	10.7	9.8	8.9	8.0	10.5	13.1	15.7	18.4	17.0	15.6
85°	23.3	23.5	23.6	23.7	23.8	26.5	29.3	31.9	34.5	31.9	29.0
82.5°	44.0	43.3	41.8	39.5	36.6	36.0	35.0	33.7	32.0	30.7	29.4
80°	69.7	66.2	61.6	56.2	50.1	47.0	44.1	40.8	37.3	36.2	35.4
77.5°	93.7	87.2	79.5	71.1	62.2	56.6	51.6	46.1	40.4	38.7	37.7
75°	110.7	102.4	91.3	79.5	67.0	58.3	51.5	44.6	37.8	36.2	35.9
72.5°	119.4	108.0	93.9	77.4	61.6	51.1	44.7	38.9	33.7	31.9	31.1
70°	112.3	95.0	78.7	63.5	49.4	40.1	35.5	31.5	27.9	27.0	27.5
67.5°	94.9	77.4	62.7	49.5	38.3	30.7	28.0	25.9	24.3	23.7	23.7
65°	74.1	59.4	47.4	37.4	29.4	24.7	23.8	22.9	22.1	21.3	20.6
62.5°	54.7	43.5	35.9	30.2	25.9	23.1	22.4	21.4	20.4	19.3	18.5
60°	42.6	33.8	29.9	27.5	25.3	23.5	22.7	22.2	21.9	21.6	20.9
57.5°	37.0	32.6	29.0	27.6	26.4	25.5	25.1	24.6	23.9	23.0	22.3
55°	36.1	32.7	29.6	28.8	28.3	27.6	27.0	26.2	25.4	24.5	24.1
52.5°	36.2	34.7	32.3	31.3	31.8	30.9	29.2	30.1	30.2	29.4	28.9
50°	40.9	41.3	41.8	38.3	41.9	43.5	41.3	43.1	45.7	46.0	45.8
47.5°	58.0	61.8	66.9	63.0	67.6	74.6	74.0	74.5	80.8	81.6	81.3
45°	92.5	109.2	117.1	121.6	119.9	136.2	139.3	134.1	142.7	144.3	141.8
42.5°	185.2	194.4	215.3	231.9	222.4	239.2	244.2	228.9	243.8	250.4	243.2
40°	414.7	329.7	391.5	434.2	419.3	386.7	443.2	423.0	421.0	444.6	426.1
37.5°	818.8	726.8	790.1	911.9	907.4	754.1	925.1	914.1	768.3	941.0	926.0
35°	1468.4	1638.5	1562.6	1790.3	1856.3	1890.6	1985.4	2083.5	1976.1	2117.5	2113.8
32.5°	2629.3	2982.2	3138.2	3165.9	3458.1	3696.2	3595.4	3977.3	3954.0	4049.5	4147.1
30°	4150.9	4937.4	5335.6	5345.5	5830.3	6256.9	6392.3	6871.7	7155.2	7108.2	7583.0
27.5°	6622.7	7395.5	8051.2	8610.6	8988.3	9661.1	10597.5	11070.1	11766.7	12039.9	12696.3
25°	9415.7	10375.8	11410.9	12384.5	13183.9	14389.0	15554.5	16289.4	17286.1	18067.2	18860.8
22.5°	12441.4	13715.1	15043.1	16499.4	17986.3	19456.7	20872.3	22230.0	23558.8	25026.5	25923.7
20°	15534.8	16974.4	18590.8	20564.6	22627.6	24400.6	26334.2	28463.1	30498.5	32392.9	33823.8
17.5°	17885.5	20113.3	21864.5	23999.8	26561.6	29059.3	31524.3	34331.9	36921.2	39336.5	41490.6
15°	19680.6	22015.9	24554.1	27131.5	29830.3	32804.2	36194.9	39267.1	42465.7	45306.4	47966.8
12.5°	21245.3	23616.2	26272.5	29278.4	32682.4	35875.3	39429.0	43271.0	46664.7	50001.7	52497.9
10°	22400.1	25033.8	27726.8	30749.0	34220.3	37948.1	41799.4	45682.9	49488.1	52709.5	55391.3
7.5°	23037.2	25834.2	28651.8	31807.8	35376.7	39043.4	42890.6	46945.4	50775.6	54093.2	56556.0
5°	23555.7	26399.4	29184.4	32352.9	36071.5	39713.8	43399.3	47269.3	51279.8	54552.0	57114.3
2.5°	24008.3	26782.8	29499.5	32584.6	36416.6	40075.1	43864.5	47876.2	51754.4	54911.0	57405.2
0°	24401.2	27020.3	29677.2	32735.2	36742.6	40445.4	44173.4	48098.9	52049.5	55124.3	57648.9
-2.5°	24117.0	26685.0	29302.9	32428.8	36250.5	39892.9	43642.0	47617.1	51359.2	54473.7	56921.2
-5°	23376.0	25849.6	28449.2	31567.4	35215.5	38783.2	42482.4	46311.3	49828.9	52942.6	55194.1
-7.5°	22292.5	24714.1	27303.6	30372.9	33767.6	37005.7	40311.6	43861.0	47362.2	50111.3	52255.8
-10°	21088.1	23392.9	25776.3	28475.8	31481.6	34506.1	37543.7	40843.2	43928.2	46509.5	48573.9
-12.5°	19658.2	21705.6	23900.1	26254.6	29014.1	31894.7	34791.5	37681.5	40526.8	42848.9	44719.0
-15°	18113.8	19924.3	21928.6	24206.0	26664.7	29206.6	31819.6	34579.6	37142.1	39305.1	40953.8
-17.5°	16590.3	18211.6	20248.7	22319.3	24306.2	26637.2	29235.9	31518.2	33856.7	35799.0	37255.5
-20°	15298.7	17042.9	18814.3	20583.4	22481.5	24747.7	26951.1	29102.9	31180.9	32949.5	34397.7



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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°	14456.7	15989.2	17500.7	19174.2	21103.7	23103.5	25097.8	27054.1	28934.8	30614.8	31992.3
-25°	13691.1	14987.9	16484.7	18183.8	19813.1	21567.3	23450.2	25085.4	26869.4	28390.8	29569.3
-27.5°	13021.8	14305.2	15774.0	17302.2	18775.9	20357.0	22072.0	23632.7	25238.1	26701.1	27729.3
-30°	12439.0	13768.5	15149.8	16547.8	17935.7	19398.5	20889.1	22397.5	23870.5	25197.0	26185.3
-32.5°	11942.4	13189.6	14485.0	15786.0	17051.4	18383.9	19766.7	21153.4	22518.0	23678.6	24646.4
-35°	11377.8	12571.8	13775.4	14943.8	16115.9	17307.7	18591.0	19889.2	21110.2	22169.9	23114.6
-37.5°	10747.6	11898.0	12996.5	14060.1	15146.7	16248.8	17437.4	18630.0	19751.5	20710.7	21611.4
-40°	10120.5	11168.8	12163.7	13156.5	14152.6	15184.6	16259.7	17327.6	18312.0	19219.2	20058.6
-42.5°	9469.0	10386.5	11292.1	12216.2	13135.1	14065.8	15026.2	15997.4	16874.6	17702.0	18446.1
-45°	8811.5	9599.0	10399.0	11245.6	12084.5	12920.1	13751.6	14571.4	15392.7	16163.7	16792.2
-47.5°	8112.5	8823.1	9549.4	10277.2	11029.0	11791.7	12518.6	13228.3	13953.7	14642.8	15162.0
-50°	7407.0	8064.9	8721.4	9362.6	10027.2	10698.1	11360.3	11984.9	12592.7	13178.7	13584.6
-52.5°	6696.3	7304.8	7906.4	8486.3	9063.0	9634.8	10195.9	10750.0	11282.5	11784.7	12106.6
-55°	6021.6	6564.2	7093.1	7599.6	8108.6	8610.8	9105.7	9590.4	10050.0	10481.9	10730.1
-57.5°	5386.9	5859.5	6322.7	6758.8	7184.8	7598.6	8036.0	8476.5	8890.3	9261.4	9461.5
-60°	4768.4	5194.1	5591.7	5956.2	6321.5	6685.0	7053.5	7417.2	7771.5	8079.7	8251.9
-62.5°	4160.2	4524.0	4862.4	5176.0	5477.8	5777.9	6097.6	6404.4	6696.2	6934.1	7080.1
-65°	3627.4	3935.6	4188.9	4438.7	4686.5	4950.5	5216.0	5469.3	5709.0	5895.4	6018.3
-67.5°	3109.3	3362.8	3573.7	3780.9	3988.4	4198.3	4412.1	4619.2	4818.1	4968.8	5075.6
-70°	2616.7	2808.3	2973.4	3142.1	3314.1	3485.6	3657.4	3822.8	3980.7	4095.5	4181.5
-72.5°	2140.3	2288.3	2416.9	2547.8	2677.1	2810.0	2943.0	3070.9	3192.7	3274.9	3335.2
-75°	1672.8	1780.2	1883.3	1983.3	2079.6	2178.5	2276.4	2369.9	2458.5	2520.8	2570.4
-77.5°	1259.5	1335.7	1403.0	1468.9	1533.0	1601.7	1668.8	1732.2	1791.4	1834.7	1871.2
-80°	882.3	931.5	974.4	1014.8	1052.5	1095.1	1136.7	1176.1	1213.0	1238.2	1258.4
-82.5°	547.5	576.5	602.2	626.0	647.6	669.9	690.6	709.3	726.1	745.9	764.2
-85°	284.0	296.0	306.9	317.1	326.4	335.5	343.8	351.1	357.5	361.1	363.6
-87.5°	110.4	113.2	115.7	118.0	120.2	123.0	125.8	128.3	130.7	132.8	134.8
-90°	6.3	5.8	5.3	4.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2



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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°	26.8	27.3	27.3	27.3	27.3	27.3	26.8	26.3	25.7	25.2	24.7
87.5°	14.1	12.6	11.5	10.5	11.5	12.6	14.1	15.6	17.0	18.4	15.7
85°	26.1	23.0	21.0	18.9	21.0	23.0	26.1	29.0	31.9	34.5	31.9
82.5°	28.3	27.3	27.3	27.3	27.3	27.3	28.3	29.4	30.7	32.0	33.7
80°	34.5	33.5	34.6	35.7	34.6	33.5	34.5	35.4	36.2	37.3	40.8
77.5°	36.7	35.7	35.7	35.7	35.7	35.7	36.7	37.7	38.7	40.4	46.1
75°	35.8	35.7	34.7	33.6	34.7	35.7	35.8	35.9	36.2	37.8	44.6
72.5°	30.4	29.6	29.4	29.4	29.4	29.6	30.4	31.1	31.9	33.7	38.9
70°	28.3	29.3	28.4	27.3	28.4	29.3	28.3	27.5	27.0	27.9	31.5
67.5°	23.5	23.3	23.1	23.1	23.1	23.3	23.5	23.7	23.7	24.3	25.9
65°	19.9	19.2	18.9	18.9	18.9	19.2	19.9	20.6	21.3	22.1	22.9
62.5°	17.7	17.0	16.8	16.8	16.8	17.0	17.7	18.5	19.3	20.4	21.4
60°	20.1	19.1	18.0	16.8	18.0	19.1	20.1	20.9	21.6	21.9	22.2
57.5°	21.7	21.1	21.0	21.0	21.0	21.1	21.7	22.3	23.0	23.9	24.6
55°	23.7	23.2	23.1	23.1	23.1	23.2	23.7	24.1	24.5	25.4	26.2
52.5°	28.4	27.5	26.5	25.2	26.5	27.5	28.4	28.9	29.4	30.2	30.1
50°	44.9	42.7	41.7	42.0	41.7	42.7	44.9	45.8	46.0	45.7	43.1
47.5°	82.9	82.9	82.5	81.9	82.5	82.9	82.9	81.3	81.6	80.8	74.5
45°	141.1	135.4	130.0	128.1	130.0	135.4	141.1	141.8	144.3	142.7	134.1
42.5°	248.0	246.7	242.4	237.3	242.4	246.7	248.0	243.2	250.4	243.8	228.9
40°	431.0	425.2	415.1	418.0	415.1	425.2	431.0	426.1	444.6	421.0	423.0
37.5°	897.6	854.5	789.2	789.7	789.2	854.5	897.6	926.0	941.0	768.3	914.1
35°	2101.0	2136.3	2094.5	2094.0	2094.5	2136.3	2101.0	2113.8	2117.5	1976.1	2083.5
32.5°	4020.6	3962.2	3725.3	3602.0	3725.3	3962.2	4020.6	4147.1	4049.5	3954.0	3977.3
30°	7574.5	7612.1	7257.0	7264.9	7257.0	7612.1	7574.5	7583.0	7108.2	7155.2	6871.7
27.5°	12961.0	13249.3	13173.5	13047.0	13173.5	13249.3	12961.0	12696.3	12039.9	11766.7	11070.1
25°	19381.3	19598.5	19453.1	19364.7	19453.1	19598.5	19381.3	18860.8	18067.2	17286.1	16289.4
22.5°	26795.0	27097.4	27021.5	26638.0	27021.5	27097.4	26795.0	25923.7	25026.5	23558.8	22230.0
20°	35002.2	35520.2	35821.0	35627.3	35821.0	35520.2	35002.2	33823.8	32392.9	30498.5	28463.1
17.5°	43020.5	43688.4	44200.6	44372.9	44200.6	43688.4	43020.5	41490.6	39336.5	36921.2	34331.9
15°	49762.8	50718.0	51390.8	51629.4	51390.8	50718.0	49762.8	47966.8	45306.4	42465.7	39267.1
12.5°	54601.4	55844.8	56633.8	56870.8	56633.8	55844.8	54601.4	52497.9	50001.7	46664.7	43271.0
10°	57262.2	58829.4	59727.5	60102.0	59727.5	58829.4	57262.2	55391.3	52709.5	49488.1	45682.9
7.5°	58748.8	60164.3	61012.9	61138.6	61012.9	60164.3	58748.8	56556.0	54093.2	50775.6	46945.4
5°	59231.2	60517.2	61217.7	61282.4	61217.7	60517.2	59231.2	57114.3	54552.0	51279.8	47269.3
2.5°	59442.6	60529.4	61046.0	60913.8	61046.0	60529.4	59442.6	57405.2	54911.0	51754.4	47876.2
0°	59334.4	60305.8	60853.9	60935.9	60853.9	60305.8	59334.4	57648.9	55124.3	52049.5	48098.9
-2.5°	58453.2	59176.7	59565.4	59315.5	59565.4	59176.7	58453.2	56921.2	54473.7	51359.2	47617.1
-5°	56444.3	56964.8	57127.2	57218.3	57127.2	56964.8	56444.3	55194.1	52942.6	49828.9	46311.3
-7.5°	53540.7	53965.5	54125.8	54013.3	54125.8	53965.5	53540.7	52255.8	50111.3	47362.2	43861.0
-10°	49713.6	50102.8	50238.8	50161.3	50238.8	50102.8	49713.6	48573.9	46509.5	43928.2	40843.2
-12.5°	45839.6	46300.9	46406.7	46413.3	46406.7	46300.9	45839.6	44719.0	42848.9	40526.8	37681.5
-15°	42031.3	42558.7	42719.9	42860.7	42719.9	42558.7	42031.3	40953.8	39305.1	37142.1	34579.6
-17.5°	38289.2	38813.1	38949.1	38765.1	38949.1	38813.1	38289.2	37255.5	35799.0	33856.7	31518.2
-20°	35213.3	35484.8	35774.6	35772.2	35774.6	35484.8	35213.3	34397.7	32949.5	31180.9	29102.9



REPORT NUMBER: P701623 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-CV1-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	32672.8	33121.7	33368.5	33543.8	33368.5	33121.7	32672.8	31992.3	30614.8	28934.8	27054.1
-25°	30290.1	30671.3	30824.7	30941.5	30824.7	30671.3	30290.1	29569.3	28390.8	26869.4	25085.4
-27.5°	28454.6	28841.5	29060.3	29189.9	29060.3	28841.5	28454.6	27729.3	26701.1	25238.1	23632.7
-30°	26990.7	27370.9	27631.6	27795.3	27631.6	27370.9	26990.7	26185.3	25197.0	23870.5	22397.5
-32.5°	25413.4	25811.0	26082.8	26251.6	26082.8	25811.0	25413.4	24646.4	23678.6	22518.0	21153.4
-35°	23774.3	24172.0	24465.2	24602.9	24465.2	24172.0	23774.3	23114.6	22169.9	21110.2	19889.2
-37.5°	22181.9	22553.2	22812.3	22914.2	22812.3	22553.2	22181.9	21611.4	20710.7	19751.5	18630.0
-40°	20522.0	20872.3	21113.0	21206.7	21113.0	20872.3	20522.0	20058.6	19219.2	18312.0	17327.6
-42.5°	18848.1	19175.0	19397.3	19490.7	19397.3	19175.0	18848.1	18446.1	17702.0	16874.6	15997.4
-45°	17152.6	17443.3	17631.6	17703.4	17631.6	17443.3	17152.6	16792.2	16163.7	15392.7	14571.4
-47.5°	15483.8	15745.9	15907.7	15960.1	15907.7	15745.9	15483.8	15162.0	14642.8	13953.7	13228.3
-50°	13854.7	14069.4	14217.5	14300.9	14217.5	14069.4	13854.7	13584.6	13178.7	12592.7	11984.9
-52.5°	12347.9	12542.9	12659.1	12704.7	12659.1	12542.9	12347.9	12106.6	11784.7	11282.5	10750.0
-55°	10935.7	11104.4	11203.2	11242.9	11203.2	11104.4	10935.7	10730.1	10481.9	10050.0	9590.4
-57.5°	9631.5	9769.8	9862.9	9915.5	9862.9	9769.8	9631.5	9461.5	9261.4	8890.3	8476.5
-60°	8395.0	8508.3	8586.4	8632.2	8586.4	8508.3	8395.0	8251.9	8079.7	7771.5	7417.2
-62.5°	7201.3	7297.6	7360.9	7397.2	7360.9	7297.6	7201.3	7080.1	6934.1	6696.2	6404.4
-65°	6122.1	6206.6	6247.4	6263.1	6247.4	6206.6	6122.1	6018.3	5895.4	5709.0	5469.3
-67.5°	5167.3	5243.3	5270.9	5275.9	5270.9	5243.3	5167.3	5075.6	4968.8	4818.1	4619.2
-70°	4255.9	4317.8	4338.7	4341.3	4338.7	4317.8	4255.9	4181.5	4095.5	3980.7	3822.8
-72.5°	3384.9	3423.9	3454.1	3473.9	3454.1	3423.9	3384.9	3335.2	3274.9	3192.7	3070.9
-75°	2612.0	2645.5	2660.0	2665.3	2660.0	2645.5	2612.0	2570.4	2520.8	2458.5	2369.9
-77.5°	1902.3	1927.7	1933.5	1932.3	1933.5	1927.7	1902.3	1871.2	1834.7	1791.4	1732.2
-80°	1274.3	1286.1	1293.9	1298.0	1293.9	1286.1	1274.3	1258.4	1238.2	1213.0	1176.1
-82.5°	780.7	795.1	780.3	762.4	780.3	795.1	780.7	764.2	745.9	726.1	709.3
-85°	365.2	365.9	367.2	367.6	367.2	365.9	365.2	363.6	361.1	357.5	351.1
-87.5°	136.6	138.2	137.4	136.5	137.4	138.2	136.6	134.8	132.8	130.7	128.3
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	24.2	23.6	23.1	22.6	22.1	21.5	21.0	20.0	18.9	17.9	16.8
87.5°	13.1	10.5	8.0	8.9	9.8	10.7	11.5	10.9	10.3	9.8	9.3
85°	29.3	26.5	23.8	23.7	23.6	23.5	23.3	22.9	22.2	21.2	20.1
82.5°	35.0	36.0	36.6	39.5	41.8	43.3	44.0	43.7	42.9	41.3	38.8
80°	44.1	47.0	50.1	56.2	61.6	66.2	69.7	71.2	72.1	71.8	69.5
77.5°	51.6	56.6	62.2	71.1	79.5	87.2	93.7	97.5	99.3	100.2	97.3
75°	51.5	58.3	67.0	79.5	91.3	102.4	110.7	116.4	121.1	124.6	121.4
72.5°	44.7	51.1	61.6	77.4	93.9	108.0	119.4	129.0	137.4	144.6	139.7
70°	35.5	40.1	49.4	63.5	78.7	95.0	112.3	129.6	146.6	157.8	149.8
67.5°	28.0	30.7	38.3	49.5	62.7	77.4	94.9	114.8	134.1	152.1	148.5
65°	23.8	24.7	29.4	37.4	47.4	59.4	74.1	91.5	112.0	132.6	133.3
62.5°	22.4	23.1	25.9	30.2	35.9	43.5	54.7	70.0	87.6	101.7	106.8
60°	22.7	23.5	25.3	27.5	29.9	33.8	42.6	52.9	64.9	76.8	83.0
57.5°	25.1	25.5	26.4	27.6	29.0	32.6	37.0	41.9	51.8	58.7	63.9
55°	27.0	27.6	28.3	28.8	29.6	32.7	36.1	40.3	44.7	46.9	53.3
52.5°	29.2	30.9	31.8	31.3	32.3	34.7	36.2	39.7	43.4	46.0	47.6
50°	41.3	43.5	41.9	38.3	41.8	41.3	40.9	41.8	46.0	48.3	48.2
47.5°	74.0	74.6	67.6	63.0	66.9	61.8	58.0	54.6	61.2	55.1	54.3
45°	139.3	136.2	119.9	121.6	117.1	109.2	92.5	101.3	93.6	83.9	64.4
42.5°	244.2	239.2	222.4	231.9	215.3	194.4	185.2	194.7	163.0	132.4	139.6
40°	443.2	386.7	419.3	434.2	391.5	329.7	414.7	356.4	303.6	218.3	287.4
37.5°	925.1	754.1	907.4	911.9	790.1	726.8	818.8	738.1	515.4	545.1	554.6
35°	1985.4	1890.6	1856.3	1790.3	1562.6	1638.5	1468.4	1299.0	1115.6	1055.0	954.8
32.5°	3595.4	3696.2	3458.1	3165.9	3138.2	2982.2	2629.3	2117.9	2120.0	1911.3	1561.7
30°	6392.3	6256.9	5830.3	5345.5	5335.6	4937.4	4150.9	3808.9	3493.2	3019.4	2353.1
27.5°	10597.5	9661.1	8988.3	8610.6	8051.2	7395.5	6622.7	5823.3	5148.8	4426.7	3530.2
25°	15554.5	14389.0	13183.9	12384.5	11410.9	10375.8	9415.7	8294.6	7166.2	6033.6	4897.7
22.5°	20872.3	19456.7	17986.3	16499.4	15043.1	13715.1	12441.4	10954.6	9234.0	7644.0	6330.2
20°	26334.2	24400.6	22627.6	20564.6	18590.8	16974.4	15534.8	13487.2	11190.0	9257.5	7725.2
17.5°	31524.3	29059.3	26561.6	23999.8	21864.5	20113.3	17885.5	15491.4	13016.8	10775.0	9057.9
15°	36194.9	32804.2	29830.3	27131.5	24554.1	22015.9	19680.6	17313.0	14724.4	12300.0	10275.1
12.5°	39429.0	35875.3	32682.4	29278.4	26272.5	23616.2	21245.3	18871.4	16154.0	13310.1	10954.4
10°	41799.4	37948.1	34220.3	30749.0	27726.8	25033.8	22400.1	19701.9	16764.7	13915.5	11518.8
7.5°	42890.6	39043.4	35376.7	31807.8	28651.8	25834.2	23037.2	20228.4	17201.4	14334.8	11972.2
5°	43399.3	39713.8	36071.5	32352.9	29184.4	26399.4	23555.7	20628.3	17467.5	14587.3	12319.6
2.5°	43864.5	40075.1	36416.6	32584.6	29499.5	26782.8	24008.3	21032.1	17798.2	14850.3	12541.9
0°	44173.4	40445.4	36742.6	32735.2	29677.2	27020.3	24401.2	21391.5	18085.6	15033.9	12675.3
-2.5°	43642.0	39892.9	36250.5	32428.8	29302.9	26685.0	24117.0	21242.5	18029.8	15033.8	12680.7
-5°	42482.4	38783.2	35215.5	31567.4	28449.2	25849.6	23376.0	20690.5	17702.9	14870.0	12604.6
-7.5°	40311.6	37005.7	33767.6	30372.9	27303.6	24714.1	22292.5	19738.5	16983.9	14329.2	12155.6
-10°	37543.7	34506.1	31481.6	28475.8	25776.3	23392.9	21088.1	18698.8	16150.1	13681.5	11633.9
-12.5°	34791.5	31894.7	29014.1	26254.6	23900.1	21705.6	19658.2	17556.0	15217.6	12930.1	11047.7
-15°	31819.6	29206.6	26664.7	24206.0	21928.6	19924.3	18113.8	16237.2	14162.4	12116.3	10402.5
-17.5°	29235.9	26637.2	24306.2	22319.3	20248.7	18211.6	16590.3	14946.4	13177.0	11410.0	9849.6
-20°	26951.1	24747.7	22481.5	20583.4	18814.3	17042.9	15298.7	13737.0	12262.9	10768.8	9372.0



REPORT NUMBER: P701623 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-CV1-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25097.8	23103.5	21103.7	19174.2	17500.7	15989.2	14456.7	12904.2	11409.3	10111.8	8909.9
-25°	23450.2	21567.3	19813.1	18183.8	16484.7	14987.9	13691.1	12315.6	10889.8	9531.0	8483.1
-27.5°	22072.0	20357.0	18775.9	17302.2	15774.0	14305.2	13021.8	11749.3	10426.1	9205.4	8129.5
-30°	20889.1	19398.5	17935.7	16547.8	15149.8	13768.5	12439.0	11231.6	10004.0	8853.1	7835.2
-32.5°	19766.7	18383.9	17051.4	15786.0	14485.0	13189.6	11942.4	10708.1	9527.2	8495.9	7551.6
-35°	18591.0	17307.7	16115.9	14943.8	13775.4	12571.8	11377.8	10168.5	9067.5	8100.0	7223.3
-37.5°	17437.4	16248.8	15146.7	14060.1	12996.5	11898.0	10747.6	9645.5	8604.2	7682.2	6852.3
-40°	16259.7	15184.6	14152.6	13156.5	12163.7	11168.8	10120.5	9097.0	8142.7	7223.3	6444.2
-42.5°	15026.2	14065.8	13135.1	12216.2	11292.1	10386.5	9469.0	8544.6	7648.6	6793.3	6011.6
-45°	13751.6	12920.1	12084.5	11245.6	10399.0	9599.0	8811.5	7965.3	7133.2	6337.4	5565.3
-47.5°	12518.6	11791.7	11029.0	10277.2	9549.4	8823.1	8112.5	7361.2	6597.9	5852.7	5166.8
-50°	11360.3	10698.1	10027.2	9362.6	8721.4	8064.9	7407.0	6746.0	6043.7	5377.9	4751.8
-52.5°	10195.9	9634.8	9063.0	8486.3	7906.4	7304.8	6696.3	6107.7	5487.9	4904.5	4350.4
-55°	9105.7	8610.8	8108.6	7599.6	7093.1	6564.2	6021.6	5486.4	4965.2	4436.3	3959.9
-57.5°	8036.0	7598.6	7184.8	6758.8	6322.7	5859.5	5386.9	4909.0	4449.0	3996.9	3566.4
-60°	7053.5	6685.0	6321.5	5956.2	5591.7	5194.1	4768.4	4349.0	3937.9	3562.2	3196.8
-62.5°	6097.6	5777.9	5477.8	5176.0	4862.4	4524.0	4160.2	3819.3	3476.2	3138.8	2842.8
-65°	5216.0	4950.5	4686.5	4438.7	4188.9	3935.6	3627.4	3325.8	3037.0	2759.0	2500.0
-67.5°	4412.1	4198.3	3988.4	3780.9	3573.7	3362.8	3109.3	2853.3	2616.1	2390.9	2170.8
-70°	3657.4	3485.6	3314.1	3142.1	2973.4	2808.3	2616.7	2414.8	2217.7	2026.1	1834.3
-72.5°	2943.0	2810.0	2677.1	2547.8	2416.9	2288.3	2140.3	1974.9	1811.1	1649.8	1494.1
-75°	2276.4	2178.5	2079.6	1983.3	1883.3	1780.2	1672.8	1549.6	1425.6	1301.2	1177.9
-77.5°	1668.8	1601.7	1533.0	1468.9	1403.0	1335.7	1259.5	1161.2	1068.4	976.7	887.4
-80°	1136.7	1095.1	1052.5	1014.8	974.4	931.5	882.3	812.4	743.0	678.8	620.6
-82.5°	690.6	669.9	647.6	626.0	602.2	576.5	547.5	506.8	466.7	427.5	389.2
-85°	343.8	335.5	326.4	317.1	306.9	296.0	284.0	266.7	248.8	230.3	211.3
-87.5°	125.8	123.0	120.2	118.0	115.7	113.2	110.4	104.0	97.7	91.3	85.1
-90°	4.2	4.2	4.2	4.7	5.3	5.8	6.3	6.3	6.3	6.3	6.3



REPORT NUMBER: P701623 (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°
90°	16.3	15.8	15.2	14.7	14.7	14.7	14.7	14.7	14.2	13.7	13.1
87.5°	10.9	12.4	13.7	14.7	13.9	13.1	12.4	11.6	12.1	12.4	12.6
85°	20.6	21.2	22.1	23.1	21.8	19.9	18.4	17.0	17.3	17.4	17.4
82.5°	35.1	33.3	32.3	31.7	31.5	30.5	28.7	26.1	23.7	22.5	22.1
80°	62.3	55.7	49.8	44.8	42.1	41.2	40.0	37.2	31.6	27.7	25.6
77.5°	87.4	78.3	70.0	61.7	54.4	49.4	47.0	45.7	39.2	32.6	28.3
75°	110.2	98.3	87.1	76.2	65.6	57.0	51.0	47.1	42.0	36.9	30.8
72.5°	125.6	112.8	101.3	89.3	75.5	64.0	54.9	48.3	43.1	37.9	32.6
70°	136.3	123.8	110.7	97.0	83.4	70.3	58.8	50.9	44.2	38.8	33.4
67.5°	142.8	128.7	115.9	103.5	89.5	75.5	62.2	53.6	46.7	39.7	34.2
65°	128.4	123.9	118.6	105.4	92.9	80.2	66.1	56.6	49.0	41.8	34.9
62.5°	109.9	109.9	106.8	103.6	93.8	81.6	70.0	60.3	51.4	43.8	36.3
60°	86.9	90.9	93.9	93.1	89.8	81.5	71.4	63.7	54.2	45.7	37.9
57.5°	70.2	72.9	78.9	82.5	81.5	77.6	72.2	65.4	56.8	47.7	39.6
55°	57.4	62.3	67.2	71.5	73.4	71.2	71.8	66.4	58.7	49.5	41.4
52.5°	50.9	55.7	60.7	63.6	65.8	66.8	70.0	67.5	59.8	51.0	43.5
50°	48.9	54.0	57.7	60.0	60.2	65.2	69.3	67.8	61.0	52.3	45.8
47.5°	56.3	60.6	59.3	59.1	58.9	65.3	70.2	69.0	62.1	53.3	48.2
45°	83.7	76.8	68.9	63.1	63.2	69.9	72.5	71.1	64.3	56.4	50.9
42.5°	132.7	119.2	91.2	69.0	80.9	77.5	76.3	74.7	67.2	59.9	53.9
40°	268.5	188.0	129.9	120.4	111.2	87.7	84.7	79.4	71.2	64.3	57.3
37.5°	457.9	331.7	210.4	214.9	165.6	124.8	95.2	85.2	78.1	70.1	61.0
35°	786.2	553.5	438.6	390.4	280.5	170.5	107.1	93.5	86.4	76.1	64.9
32.5°	1192.3	972.6	858.6	657.6	424.2	224.7	140.1	109.0	95.8	82.4	69.1
30°	1878.4	1696.7	1376.3	985.6	627.0	358.0	198.0	126.8	106.1	88.9	73.7
27.5°	2913.3	2550.8	2006.7	1459.3	939.7	520.0	283.6	146.8	117.3	96.3	78.9
25°	4040.3	3518.7	2827.6	2022.7	1292.1	777.3	388.2	170.9	132.3	105.3	84.3
22.5°	5285.2	4519.0	3733.5	2638.6	1683.0	1076.2	554.7	250.8	149.7	114.6	89.6
20°	6478.0	5537.3	4639.5	3121.9	2100.5	1424.0	786.8	340.3	168.0	124.2	94.9
17.5°	7636.4	6373.4	5129.3	3648.5	2509.9	1752.4	1037.6	437.2	186.8	133.9	100.1
15°	8426.3	6931.8	5587.7	4118.8	2875.7	2061.2	1301.4	539.1	205.9	143.6	108.0
12.5°	9031.6	7437.8	6025.4	4533.0	3199.7	2350.4	1571.9	643.5	225.0	158.6	119.5
10°	9551.4	7890.2	6435.9	4891.9	3484.6	2619.8	1842.3	742.0	254.5	178.0	131.0
7.5°	9987.8	8288.1	6812.4	5196.7	3717.4	2797.5	2008.1	822.0	285.0	197.3	142.3
5°	10328.3	8582.8	7110.1	5404.3	3838.4	2877.4	2133.5	891.9	314.6	216.3	153.4
2.5°	10531.0	8743.0	7335.1	5558.6	3935.1	2936.3	2231.0	950.7	343.0	234.6	164.1
0°	10663.2	8846.4	7504.4	5664.5	4005.3	2976.1	2299.8	997.6	369.7	252.0	174.3
-2.5°	10713.5	8861.8	7528.8	5799.6	4147.9	3099.2	2366.7	1127.8	494.5	337.6	229.2
-5°	10685.7	8830.2	7503.8	5884.6	4260.6	3201.6	2408.7	1245.3	615.3	420.6	282.6
-7.5°	10351.7	8643.9	7374.2	5897.4	4341.9	3280.0	2430.5	1349.9	730.3	499.9	333.9
-10°	9905.8	8344.4	7105.0	5719.9	4333.2	3327.2	2442.1	1441.8	837.9	574.2	382.1
-12.5°	9411.2	8005.9	6812.7	5526.1	4294.0	3352.8	2474.2	1527.6	936.4	642.3	426.6
-15°	8875.8	7630.9	6505.4	5326.1	4239.5	3365.7	2491.6	1601.0	1025.3	706.8	466.7
-17.5°	8349.1	7222.1	6190.6	5129.1	4173.0	3368.1	2496.4	1657.8	1103.9	769.1	509.5
-20°	8062.9	6925.2	5881.2	4943.7	4097.7	3361.8	2491.0	1697.4	1171.3	824.0	553.3



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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°	7777.2	6730.6	5732.6	4812.2	4034.2	3348.6	2477.2	1719.2	1226.6	870.9	591.4
-25°	7476.7	6526.0	5588.8	4719.1	3991.7	3300.5	2470.3	1722.9	1269.0	909.4	623.4
-27.5°	7211.0	6319.2	5422.4	4589.9	3908.3	3249.7	2459.5	1763.8	1302.4	938.9	648.9
-30°	6961.9	6110.4	5246.4	4438.7	3794.9	3126.9	2427.0	1789.6	1332.1	964.2	667.6
-32.5°	6704.8	5881.5	5034.5	4290.9	3644.2	2987.5	2335.7	1797.4	1349.8	983.2	683.5
-35°	6405.0	5603.9	4787.0	4107.7	3475.3	2843.7	2233.5	1786.8	1355.2	992.5	693.6
-37.5°	6064.6	5279.0	4553.2	3901.2	3294.3	2689.2	2159.1	1734.0	1348.0	992.2	696.3
-40°	5688.2	4954.2	4285.1	3691.6	3110.8	2524.6	2070.5	1678.3	1335.5	982.0	691.5
-42.5°	5292.2	4637.3	4029.0	3469.3	2920.4	2410.0	1971.4	1612.1	1290.1	966.4	679.2
-45°	4922.1	4314.7	3763.7	3243.7	2730.0	2281.2	1885.9	1537.4	1232.8	943.2	662.3
-47.5°	4540.3	4003.1	3495.0	3005.2	2568.7	2146.6	1788.7	1463.1	1167.6	909.6	642.8
-50°	4180.2	3689.8	3224.7	2790.5	2384.6	2024.7	1683.5	1379.3	1102.4	853.3	616.9
-52.5°	3841.4	3387.0	2969.1	2574.8	2221.5	1890.2	1577.7	1287.4	1029.7	798.5	584.7
-55°	3504.8	3098.6	2719.4	2375.5	2055.1	1753.6	1461.8	1195.0	949.9	741.1	547.2
-57.5°	3181.0	2812.8	2490.4	2181.4	1884.7	1606.5	1342.6	1094.6	872.4	678.2	511.1
-60°	2855.3	2557.1	2266.6	1979.5	1706.7	1454.6	1218.2	990.4	791.0	612.4	465.6
-62.5°	2560.3	2292.9	2030.0	1767.2	1525.4	1300.0	1087.8	887.3	703.6	551.0	415.1
-65°	2258.0	2018.3	1782.2	1557.1	1341.9	1141.2	958.4	777.4	622.7	485.8	365.3
-67.5°	1952.0	1742.7	1542.3	1342.4	1159.8	987.2	822.1	675.1	540.5	417.1	322.3
-70°	1646.5	1465.6	1301.5	1140.1	980.6	830.3	699.3	573.6	454.5	361.3	277.1
-72.5°	1347.6	1206.4	1071.2	935.7	808.3	688.1	575.6	472.7	384.4	303.5	230.2
-75°	1058.8	952.9	851.1	747.6	641.4	542.9	463.1	387.2	312.2	243.6	189.3
-77.5°	802.0	718.2	636.4	564.5	491.3	422.8	359.2	299.1	241.6	193.0	149.9
-80°	564.9	510.5	457.6	405.4	350.8	300.2	260.0	220.9	179.5	142.3	109.4
-82.5°	351.3	320.4	291.5	262.4	231.0	200.9	172.3	144.9	116.1	90.5	75.2
-85°	192.8	174.2	155.6	137.1	118.4	100.6	92.1	83.7	73.5	63.8	54.7
-87.5°	80.4	75.8	71.1	66.5	62.1	57.7	53.5	49.3	43.9	38.8	33.9
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.8	7.4	7.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	12.6	12.1	11.6	11.0	10.5	9.5	8.4
87.5°	12.7	12.1	11.6	11.3	11.2	9.8	8.4
85°	17.1	15.3	13.8	12.7	12.0	10.1	8.4
82.5°	21.4	18.4	16.0	14.1	12.7	10.4	8.4
80°	25.2	21.5	18.1	15.4	13.4	10.7	8.4
77.5°	26.1	23.6	20.2	16.7	14.1	11.0	8.4
75°	27.0	24.0	21.9	18.0	14.7	11.3	8.4
72.5°	27.8	24.4	21.9	19.2	15.4	11.6	8.4
70°	28.5	24.7	21.9	20.2	16.0	11.9	8.4
67.5°	29.3	24.9	21.9	20.0	16.6	12.2	8.4
65°	30.1	25.4	21.8	19.8	17.2	12.4	8.4
62.5°	31.0	26.2	21.6	19.5	17.8	12.7	8.4
60°	31.8	27.1	21.4	19.3	18.3	12.9	8.4
57.5°	33.4	27.9	22.1	19.0	18.2	13.1	8.4
55°	35.1	28.7	22.9	18.6	18.0	13.4	8.4
52.5°	36.7	29.6	23.6	18.3	17.9	13.6	8.4
50°	38.3	31.0	24.3	17.9	17.7	13.8	8.4
47.5°	40.0	32.3	25.0	17.7	17.6	14.0	8.4
45°	42.3	33.5	25.6	18.2	17.6	14.1	8.4
42.5°	44.8	34.7	26.3	18.7	17.5	14.3	8.4
40°	47.3	35.9	27.0	19.4	17.5	14.4	8.4
37.5°	49.9	36.9	27.9	20.4	17.5	14.5	8.4
35°	52.7	38.7	28.7	21.4	17.5	14.7	8.4
32.5°	55.5	40.7	29.4	22.5	17.5	14.8	8.4
30°	58.8	42.7	30.1	23.6	17.6	14.8	8.4
27.5°	62.1	44.8	32.2	24.7	17.6	14.9	8.4
25°	65.5	46.7	34.6	25.8	17.7	15.0	8.4
22.5°	68.8	49.6	37.2	26.9	17.8	15.0	8.4
20°	72.2	55.0	39.8	28.0	17.9	15.0	8.4
17.5°	78.4	60.4	42.6	29.1	18.1	15.0	8.4
15°	86.2	65.9	45.3	30.2	18.2	15.0	8.4
12.5°	94.1	71.4	48.1	31.3	18.3	15.0	8.4
10°	101.8	76.8	50.8	32.3	18.4	15.0	8.4
7.5°	109.3	82.0	53.5	33.2	18.6	14.9	8.4
5°	116.5	87.1	56.1	34.1	18.7	14.9	8.4
2.5°	123.5	92.0	58.6	35.0	18.8	14.8	8.4
0°	130.2	96.6	60.9	35.7	18.9	14.7	8.4
-2.5°	162.9	115.5	70.8	40.1	20.4	15.0	8.4
-5°	194.7	133.8	80.4	44.3	21.8	15.2	8.4
-7.5°	225.4	151.3	89.5	48.3	23.2	15.5	8.4
-10°	254.4	167.8	98.1	52.1	24.5	15.7	8.4
-12.5°	281.4	183.0	106.1	55.7	25.8	15.9	8.4
-15°	306.0	196.8	113.4	58.9	27.0	16.1	8.4
-17.5°	327.9	209.0	119.8	61.7	28.1	16.2	8.4
-20°	351.8	219.4	125.3	64.1	29.0	16.4	8.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	380.4	227.8	129.7	66.2	29.9	16.5	8.4
-25°	404.7	240.7	133.1	67.7	30.7	16.6	8.4
-27.5°	424.5	253.6	135.4	68.8	31.3	16.6	8.4
-30°	439.5	263.7	137.0	69.3	31.8	16.7	8.4
-32.5°	449.5	270.8	142.1	69.3	32.1	16.7	8.4
-35°	456.7	274.8	145.5	68.8	32.3	16.6	8.4
-37.5°	460.1	276.6	147.0	67.7	32.3	16.6	8.4
-40°	458.7	277.7	146.7	66.0	32.2	16.5	8.4
-42.5°	452.6	275.6	145.9	64.5	31.9	16.4	8.4
-45°	441.6	270.6	145.0	63.7	31.5	16.2	8.4
-47.5°	425.9	262.5	142.5	62.1	30.9	16.0	8.4
-50°	410.3	251.5	138.5	61.5	30.1	15.8	8.4
-52.5°	391.3	237.5	132.9	60.9	29.2	15.6	8.4
-55°	368.1	225.8	125.9	59.6	28.2	15.3	8.4
-57.5°	340.9	212.7	117.4	57.6	26.9	15.0	8.4
-60°	311.0	197.4	107.7	54.9	25.6	14.7	8.4
-62.5°	286.1	180.0	101.0	51.7	24.7	14.4	8.4
-65°	258.4	160.7	93.2	47.9	23.7	14.0	8.4
-67.5°	228.1	142.8	84.4	43.5	22.6	13.6	8.4
-70°	195.4	126.6	74.7	38.7	21.4	13.2	8.4
-72.5°	168.1	109.1	64.2	35.4	20.2	12.8	8.4
-75°	140.2	90.5	53.0	32.4	18.9	12.4	8.4
-77.5°	110.9	70.9	45.8	29.1	17.6	11.9	8.4
-80°	80.4	57.0	39.3	25.7	16.2	11.4	8.4
-82.5°	62.5	46.1	32.6	22.2	14.8	10.9	8.4
-85°	46.1	34.9	25.7	18.5	13.4	10.5	8.4
-87.5°	29.4	23.5	18.6	14.8	12.0	10.0	8.4
-90°	8.4	8.9	9.5	10.0	10.5	9.5	8.4

(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

