

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: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

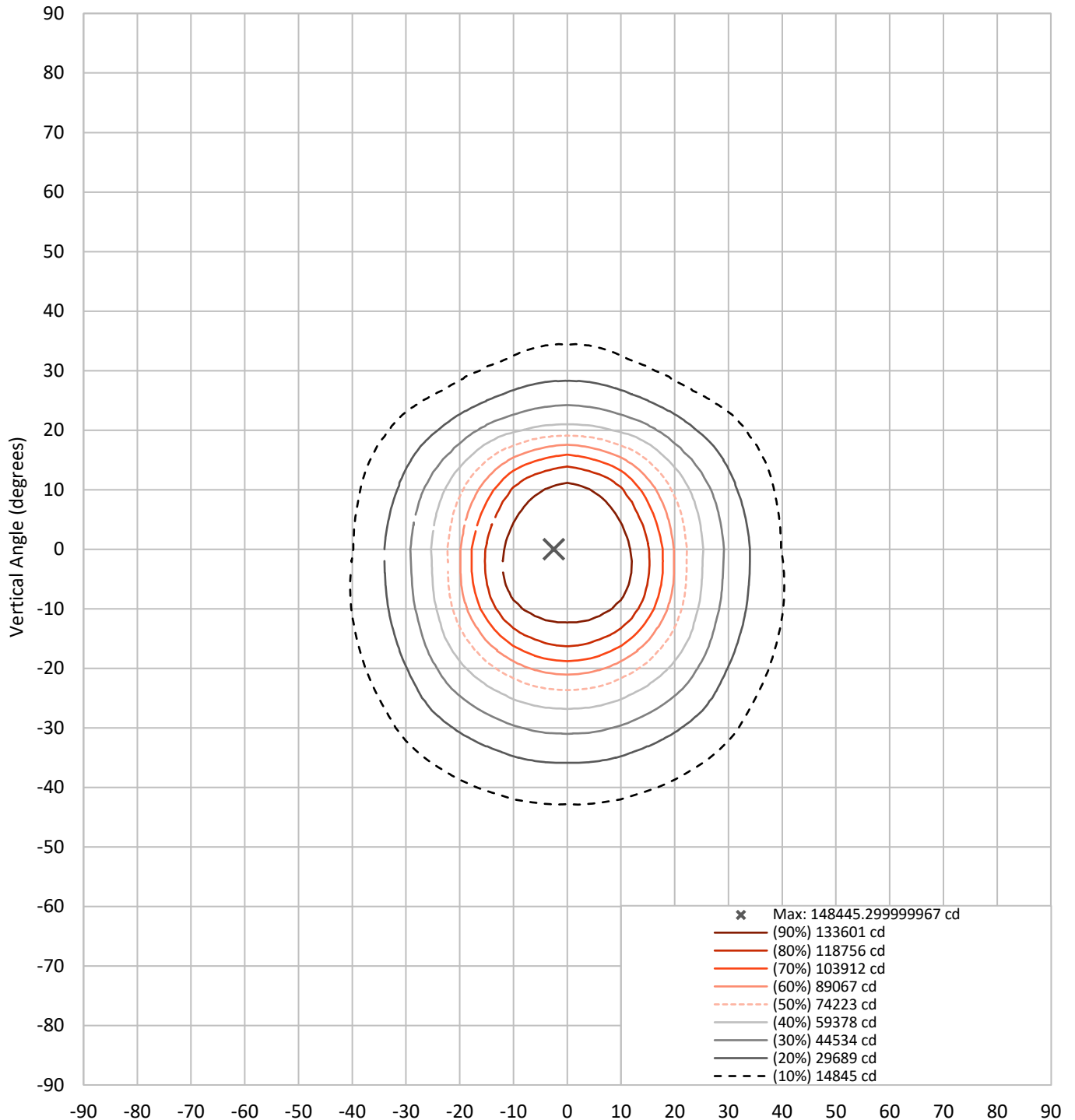
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	96658 lumens	Max Intensity:	148445.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	146.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	53074.4 lumens	Field Lumens:	88816.9 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 658
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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CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

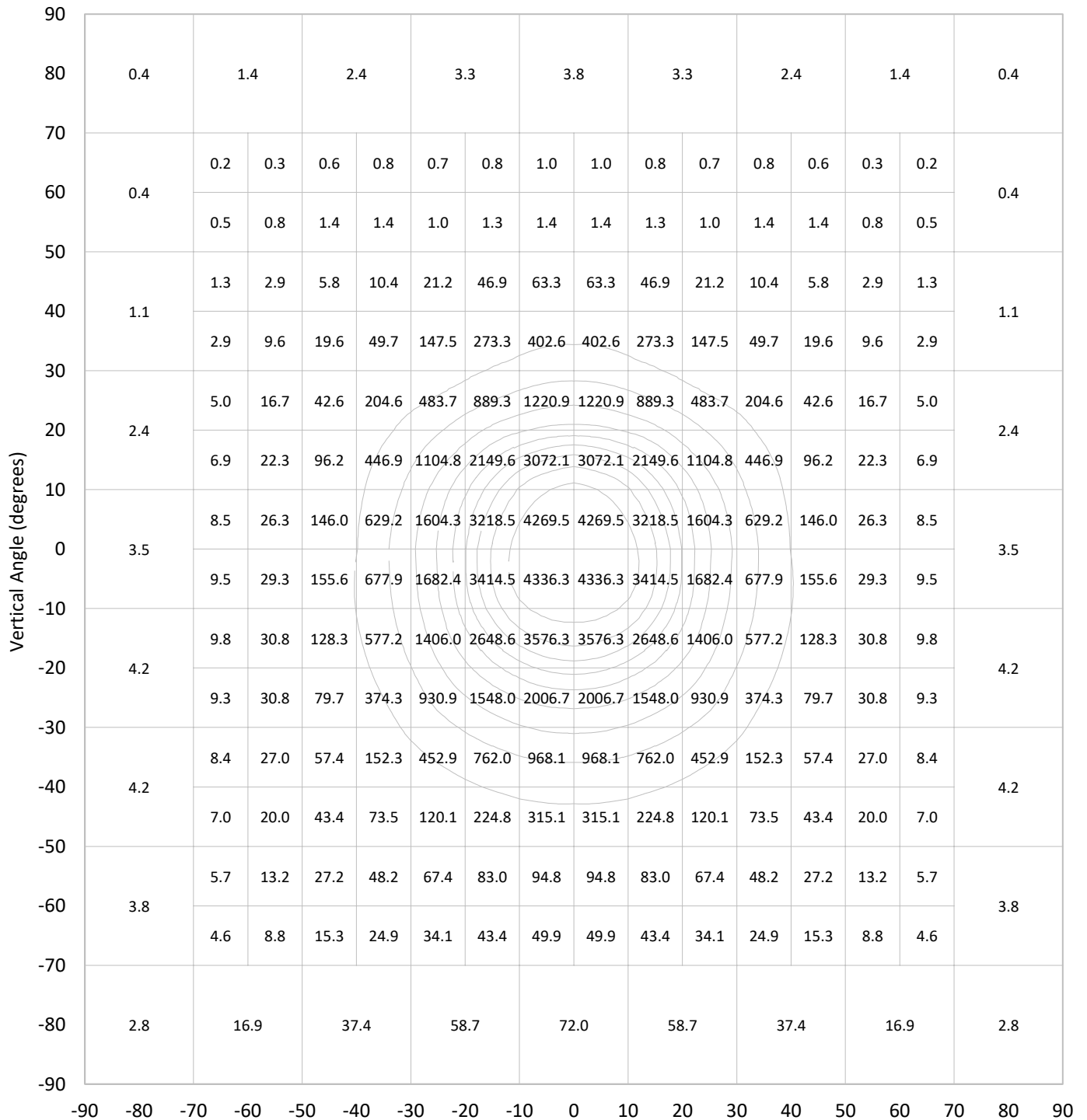
Iso-Candela Plot





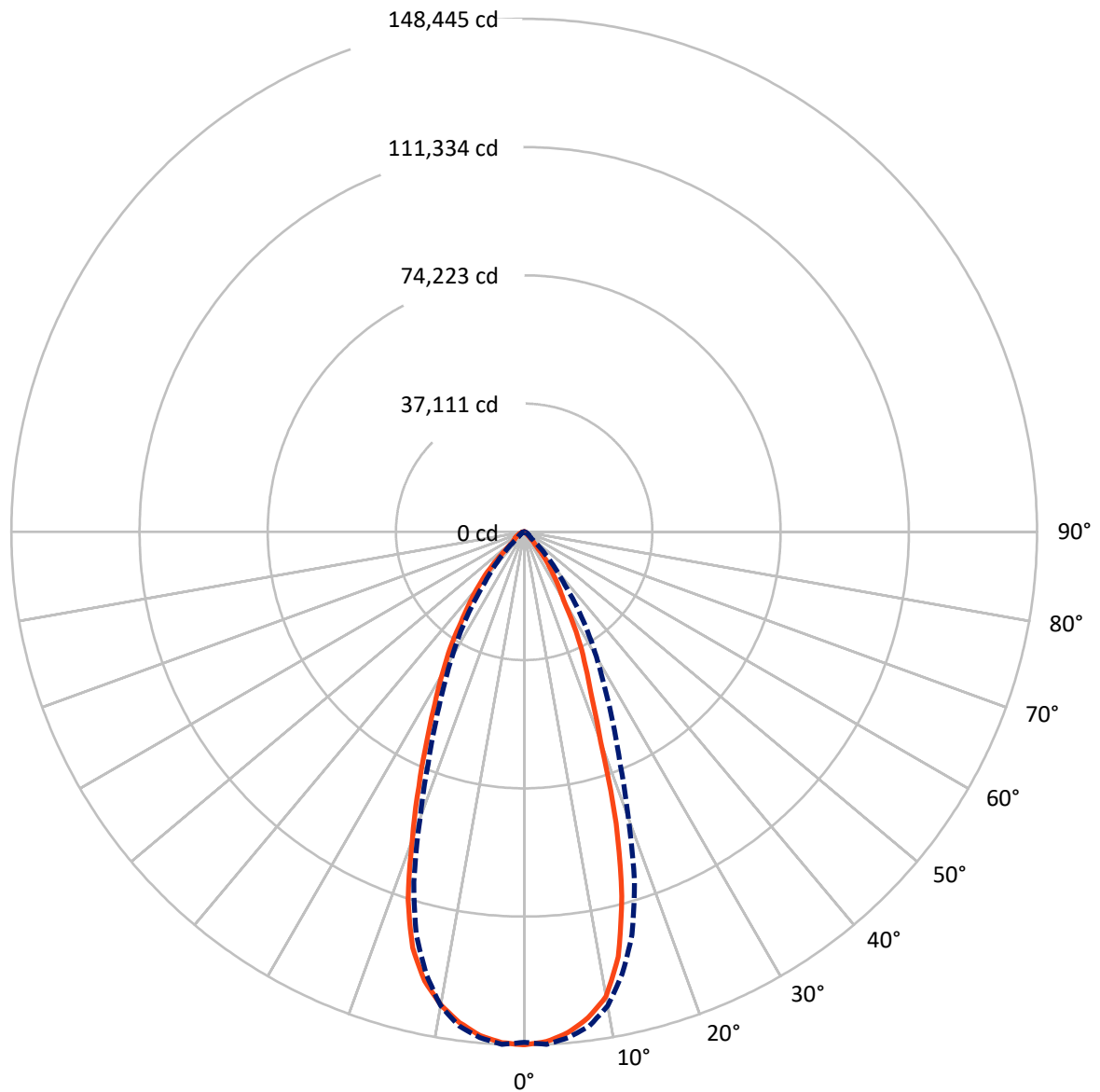
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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

Lumen Table



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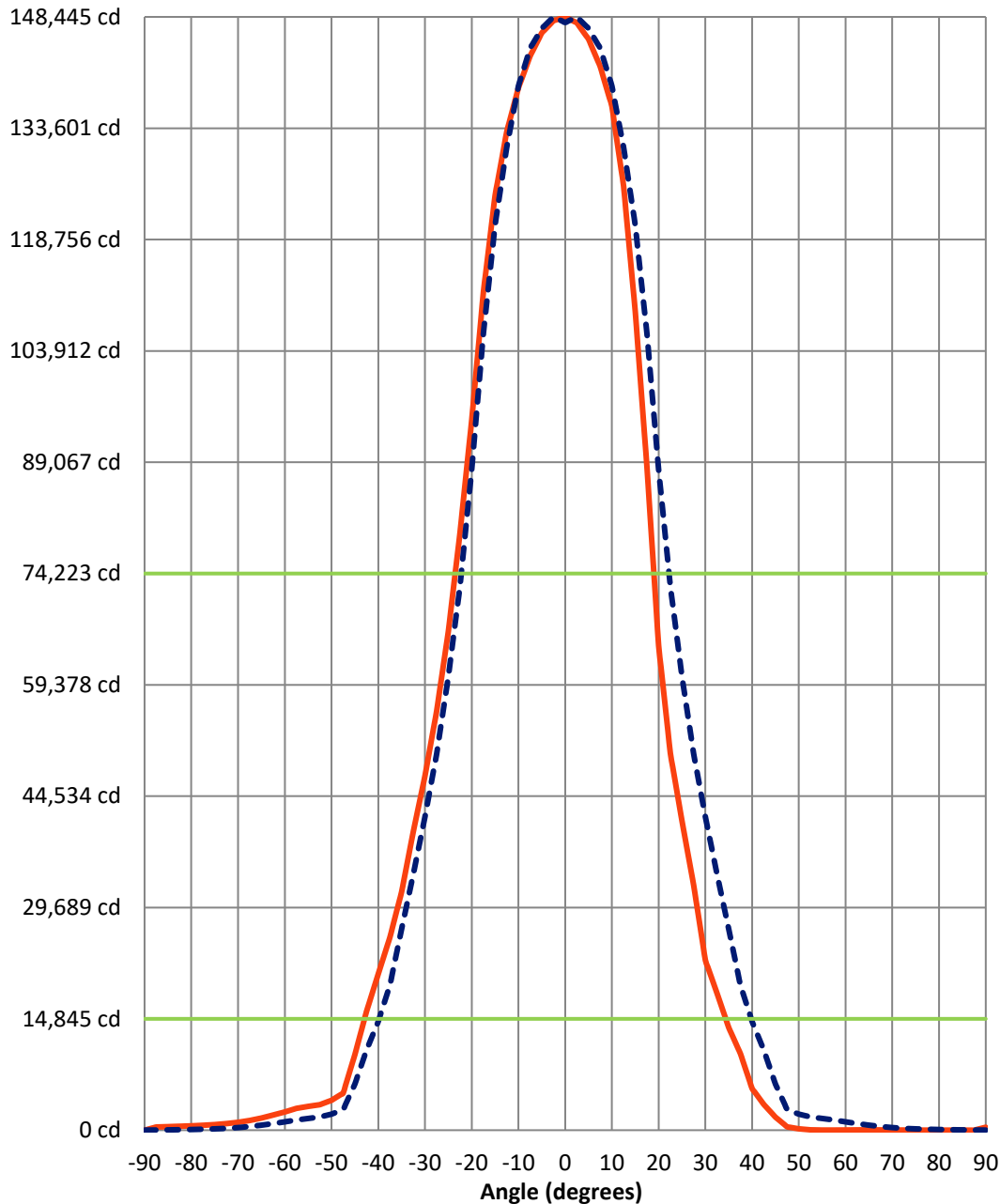
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 53074.4
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 88816.9
 Efficiency: 91.9%

Spill:
 Lumens: 7841.1
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	12.8	25.0	37.3	61.8	86.3	109.0	131.8	150.5	169.2	182.6	196.0
87.5°	12.8	11.9	10.8	10.9	10.9	11.0	11.1	10.6	10.1	10.0	9.8
85°	12.8	12.2	11.1	11.3	11.3	11.5	11.7	11.3	11.0	10.7	10.3
82.5°	12.8	12.4	11.4	11.6	11.7	12.0	12.3	12.0	11.8	11.4	10.9
80°	12.8	12.7	11.8	12.0	12.1	12.5	12.9	12.8	12.6	12.1	11.5
77.5°	12.8	13.0	12.1	12.4	12.5	13.1	13.5	13.5	13.4	12.9	12.1
75°	12.8	13.2	12.5	12.8	13.0	13.9	14.2	14.2	14.2	13.5	12.6
72.5°	12.8	13.5	12.8	13.2	13.9	14.7	14.9	15.0	14.8	14.0	13.2
70°	12.8	13.8	13.2	13.6	14.7	15.5	15.7	15.9	15.4	14.6	14.3
67.5°	12.8	14.0	13.6	14.3	15.5	16.4	16.7	16.8	16.2	16.0	15.6
65°	12.8	14.3	14.0	15.0	16.4	17.3	17.8	17.8	17.8	17.4	17.3
62.5°	12.8	14.6	14.5	15.7	17.2	18.3	18.9	19.3	19.5	19.2	20.2
60°	12.8	14.9	14.9	16.4	18.1	19.3	20.0	21.1	21.3	23.2	23.5
57.5°	12.8	15.2	15.7	17.0	19.2	20.3	22.2	23.1	26.2	28.1	29.9
55°	12.8	15.5	16.5	17.7	20.5	21.3	24.7	25.5	32.5	34.8	38.5
52.5°	12.8	15.7	17.3	18.4	21.9	22.7	27.5	32.1	39.5	45.3	48.1
50°	12.8	16.0	18.2	19.0	23.3	25.9	30.5	39.3	48.0	56.4	62.1
47.5°	12.8	16.3	19.1	19.8	24.9	29.3	34.2	46.5	58.9	68.3	77.8
45°	12.8	16.6	20.1	21.1	26.6	32.8	40.7	54.0	70.1	83.4	94.4
42.5°	12.8	16.9	21.2	22.4	28.4	36.6	47.1	63.0	81.6	99.2	119.5
40°	12.8	17.2	22.2	24.4	30.8	40.5	54.0	73.3	94.3	115.6	147.4
37.5°	12.8	17.5	23.3	26.7	33.9	44.5	61.4	83.8	109.1	135.2	176.8
35°	12.8	17.8	24.5	29.1	37.0	49.9	68.9	94.5	124.4	161.8	210.9
32.5°	12.8	18.0	25.6	31.6	40.1	55.9	77.0	105.6	140.0	188.9	249.5
30°	12.8	18.3	26.8	34.0	43.3	61.8	86.4	117.4	155.9	216.4	287.5
27.5°	12.8	18.6	28.1	36.6	47.6	67.6	95.6	130.3	173.8	244.3	324.7
25°	12.8	18.8	29.3	39.1	51.9	73.3	104.5	142.7	194.4	274.2	361.2
22.5°	12.8	19.1	30.5	41.7	56.1	79.2	113.2	154.5	213.9	299.9	399.8
20°	12.8	19.4	31.8	44.2	60.3	85.6	121.6	165.8	232.2	324.3	432.0
17.5°	12.8	19.6	33.0	46.8	64.3	91.7	130.0	176.5	249.2	347.3	462.5
15°	12.8	19.8	34.2	49.3	68.2	97.5	138.1	186.8	265.0	368.6	491.4
12.5°	12.8	20.1	35.4	51.7	72.0	103.0	145.8	197.1	280.9	388.3	518.5
10°	12.8	20.3	36.6	54.2	75.7	108.3	152.9	206.7	296.7	411.5	547.1
7.5°	12.8	20.5	37.7	56.5	79.2	113.2	159.6	215.6	311.3	434.0	581.4
5°	12.8	20.7	38.8	58.8	82.6	117.8	165.7	223.8	324.5	454.8	613.5
2.5°	12.8	20.8	39.8	60.9	85.7	122.1	171.2	231.3	336.3	473.5	643.1
0°	12.8	21.0	40.8	63.0	88.7	126.0	176.2	238.0	346.5	490.0	669.6
-2.5°	12.8	21.8	42.6	65.8	92.8	131.8	183.7	247.7	358.4	503.9	683.3
-5°	12.8	22.6	44.2	68.4	96.7	137.1	190.6	256.4	368.4	515.2	693.4
-7.5°	12.8	23.4	45.8	70.9	100.4	142.1	196.8	264.2	376.6	523.7	700.0
-10°	12.8	24.1	47.3	73.3	103.8	146.6	202.4	271.0	382.9	529.4	703.1
-12.5°	12.8	24.8	48.7	75.5	106.9	150.6	207.2	276.7	387.1	532.4	708.1
-15°	12.8	25.5	50.0	77.5	109.8	154.1	211.2	281.3	389.4	533.2	710.6
-17.5°	12.8	26.1	51.2	79.3	112.4	157.1	214.5	285.3	390.0	531.0	707.6
-20°	12.8	26.8	52.3	81.0	114.7	159.6	217.4	288.6	388.5	525.5	698.9



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	12.8	27.3	53.3	82.5	116.6	161.5	220.4	290.9	385.1	516.8	684.9
-25°	12.8	27.9	54.1	83.8	118.2	163.7	222.6	292.2	379.6	504.8	672.6
-27.5°	12.8	28.4	54.9	85.0	119.5	165.9	223.9	292.4	372.1	496.7	663.6
-30°	12.8	28.8	55.5	85.9	120.6	167.5	224.3	291.5	369.0	490.3	649.6
-32.5°	12.8	29.2	56.0	86.6	122.7	168.5	223.9	290.8	368.7	480.5	630.2
-35°	12.8	29.6	56.4	87.1	124.4	169.0	223.9	289.8	366.6	467.3	605.4
-37.5°	12.8	29.9	56.6	87.5	125.7	169.6	223.9	288.0	362.6	450.7	582.9
-40°	12.8	30.1	56.8	87.6	126.7	170.8	223.1	285.0	356.9	440.6	561.3
-42.5°	12.8	30.3	56.8	87.8	127.6	171.7	221.9	280.8	351.2	432.3	535.8
-45°	12.8	30.5	56.6	88.3	128.3	172.1	220.0	276.8	345.0	421.6	509.2
-47.5°	12.8	30.6	56.4	88.5	128.6	172.1	217.2	273.5	337.3	408.7	494.2
-50°	12.8	30.6	56.0	88.6	128.4	171.7	216.3	269.3	327.5	397.1	476.6
-52.5°	12.8	30.6	55.5	88.4	127.8	170.8	215.1	264.0	319.2	383.3	455.3
-55°	12.8	30.5	54.9	88.0	126.8	169.3	213.3	258.3	311.0	367.5	433.9
-57.5°	12.8	30.4	54.2	87.3	125.3	167.3	211.0	255.4	301.7	354.9	410.6
-60°	12.8	30.3	53.3	86.4	123.5	164.7	208.0	251.3	292.4	342.6	388.3
-62.5°	12.8	30.1	52.6	85.3	121.8	161.7	204.1	246.4	286.4	328.3	370.5
-65°	12.8	29.8	51.7	83.9	119.7	158.2	199.7	240.6	279.6	317.3	351.6
-67.5°	12.8	29.5	50.8	82.3	117.3	154.4	194.6	233.7	272.1	306.8	337.0
-70°	12.8	29.2	49.7	80.4	114.5	150.3	189.1	226.2	262.9	295.6	323.7
-72.5°	12.8	28.8	48.4	78.7	111.5	145.6	182.4	218.1	253.0	282.9	309.7
-75°	12.8	28.4	47.1	76.8	108.1	140.5	175.1	208.6	242.4	269.7	294.9
-77.5°	12.8	27.9	45.7	74.7	105.0	134.9	167.2	198.2	229.8	255.5	279.5
-80°	12.8	27.4	44.1	72.5	101.7	129.9	158.8	187.3	216.5	239.3	261.6
-82.5°	12.8	26.8	42.5	70.0	98.2	125.1	152.3	177.1	202.7	222.7	242.6
-85°	12.8	26.3	40.9	67.4	94.4	120.0	145.8	168.6	191.7	208.5	225.1
-87.5°	12.8	25.7	39.1	64.7	90.5	114.6	138.9	159.7	180.6	195.7	210.7
-90°	12.8	11.7	10.5	10.5	10.5	10.5	10.5	9.9	9.3	9.3	9.3



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	204.2	212.3	219.9	227.5	236.8	246.1	256.1	266.0	276.5	287.0	296.9
87.5°	9.3	8.8	8.8	8.8	8.3	7.8	7.4	7.0	6.4	5.8	5.7
85°	9.8	9.3	9.4	9.3	8.9	8.5	8.0	7.5	7.0	6.5	6.5
82.5°	10.6	10.5	10.1	9.4	9.2	9.2	8.8	8.3	7.8	7.4	7.2
80°	11.4	11.7	10.8	9.8	9.6	9.4	8.8	8.3	8.2	8.2	7.8
77.5°	11.9	11.8	11.1	10.5	10.1	9.7	9.3	8.9	8.7	8.3	8.2
75°	12.2	11.9	11.5	10.8	10.4	10.3	10.2	9.8	9.6	9.6	9.6
72.5°	12.9	12.6	12.0	11.1	10.8	11.0	11.1	10.7	11.0	11.5	11.4
70°	13.9	13.4	12.7	11.9	11.5	11.9	12.4	13.2	14.2	14.3	15.4
67.5°	15.1	14.6	13.5	12.9	12.6	13.3	14.0	16.9	19.6	21.1	22.8
65°	16.8	16.0	14.9	14.7	14.0	16.9	19.3	22.3	27.8	30.5	30.4
62.5°	18.8	19.0	17.6	17.9	20.3	22.8	27.1	33.4	39.9	42.4	40.2
60°	23.9	23.1	23.2	24.8	27.4	30.5	37.0	44.9	52.4	56.4	50.3
57.5°	30.5	30.3	32.0	33.1	36.6	37.6	46.3	56.1	62.5	67.3	59.4
55°	39.9	40.2	43.7	44.8	47.3	47.2	54.7	63.9	70.5	72.8	64.5
52.5°	53.0	53.6	59.8	60.7	59.9	60.7	63.4	73.3	78.8	79.0	71.6
50°	67.3	74.8	78.7	81.2	76.7	79.5	77.0	87.9	96.2	95.4	98.1
47.5°	88.7	98.7	104.2	108.3	104.9	113.6	111.7	128.6	134.4	166.4	171.5
45°	113.9	129.9	137.2	146.3	156.4	166.9	194.0	194.0	269.9	299.7	378.3
42.5°	142.1	166.1	186.7	190.4	240.7	270.0	307.0	382.9	456.9	549.9	585.3
40°	179.6	206.2	248.2	295.7	351.5	415.3	484.1	576.3	673.5	721.6	727.7
37.5°	221.2	271.2	329.8	415.9	501.7	585.3	672.6	762.7	832.8	850.6	915.9
35°	265.8	339.2	448.6	547.5	647.2	762.7	840.4	923.4	965.5	1039.1	1164.7
32.5°	322.0	408.9	544.9	673.5	784.4	910.1	984.5	1048.1	1146.8	1274.5	1552.0
30°	380.6	487.7	625.2	773.6	910.2	1015.6	1100.3	1180.1	1334.7	1643.3	2594.8
27.5°	429.4	555.3	699.9	865.4	1021.1	1117.3	1213.3	1352.7	1629.0	2264.7	4069.5
25°	473.2	609.9	773.1	965.2	1117.7	1223.6	1348.6	1545.3	1978.8	3704.4	6017.2
22.5°	516.0	663.8	856.7	1070.1	1215.7	1328.1	1517.3	1872.7	2781.2	5207.1	7986.7
20°	560.1	732.5	947.4	1167.7	1309.5	1420.7	1664.8	2190.7	4050.3	6824.6	9724.6
17.5°	606.4	801.8	1035.8	1237.0	1369.7	1517.8	1820.3	2451.5	5109.7	8335.4	11581.6
15°	651.6	868.4	1111.4	1296.8	1424.8	1622.5	2029.1	3220.7	6230.0	10022.3	13567.1
12.5°	694.9	928.8	1169.9	1343.7	1479.1	1720.1	2200.7	4068.0	7577.1	11588.6	15293.2
10°	735.7	982.9	1219.2	1388.1	1538.2	1824.3	2365.9	4897.7	8756.3	12606.5	16358.6
7.5°	777.6	1028.0	1260.8	1430.4	1595.2	1922.5	2547.8	5542.1	9636.7	13389.5	17181.7
5°	815.6	1062.7	1300.9	1477.7	1653.9	2009.6	2694.9	6034.7	10297.4	14036.4	17914.9
2.5°	848.8	1090.0	1334.9	1522.4	1711.2	2082.5	2737.2	6171.8	10607.8	14384.5	18636.0
0°	877.3	1110.6	1362.5	1562.0	1762.7	2141.8	2748.4	6147.8	10684.6	14489.9	19338.1
-2.5°	893.4	1137.2	1411.8	1618.9	1808.8	2189.6	2806.6	6156.9	10749.5	15228.4	20241.1
-5°	904.7	1157.1	1452.3	1669.4	1849.7	2223.3	2838.9	6017.0	10661.7	15617.2	20505.0
-7.5°	911.0	1169.6	1482.1	1711.4	1886.7	2247.7	2857.2	5789.3	10666.6	15634.9	20173.0
-10°	914.3	1181.5	1496.1	1735.0	1918.5	2259.4	2848.4	5398.4	10243.1	15211.7	19626.2
-12.5°	925.4	1192.5	1501.1	1752.5	1944.0	2262.1	2861.4	5015.9	9448.8	14441.3	18844.4
-15°	929.7	1195.4	1498.3	1766.9	1985.0	2289.7	2861.9	4421.7	8417.7	13463.7	17861.4
-17.5°	926.8	1190.0	1489.7	1787.7	2022.9	2292.0	2796.9	3642.4	7239.9	12072.9	16567.1
-20°	916.7	1177.7	1471.1	1797.9	2044.6	2311.0	2777.8	3515.8	6085.7	10334.0	14995.3



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	902.1	1158.6	1444.4	1775.3	2069.3	2352.5	2751.8	3347.5	4728.4	8347.5	13049.7
-25°	884.6	1137.4	1415.9	1749.1	2080.8	2379.1	2671.1	3122.8	3931.5	6647.8	10641.5
-27.5°	866.3	1107.4	1385.4	1705.7	2073.9	2366.4	2623.6	2998.2	3569.7	4759.5	8132.4
-30°	843.1	1071.4	1340.5	1649.5	2012.5	2327.4	2594.7	2837.0	3227.4	3942.4	5967.0
-32.5°	814.8	1029.1	1290.5	1585.5	1919.8	2280.5	2527.7	2738.4	3035.6	3473.8	4304.6
-35°	782.8	991.8	1235.0	1504.8	1810.0	2163.0	2427.1	2650.0	2850.7	3188.1	3719.2
-37.5°	750.1	945.8	1163.6	1419.3	1710.0	1998.2	2309.8	2531.9	2734.2	2945.9	3324.3
-40°	712.0	888.6	1092.5	1329.0	1575.5	1837.0	2126.0	2404.3	2604.2	2824.8	3051.7
-42.5°	670.3	834.2	1016.5	1221.6	1442.8	1677.9	1934.3	2213.1	2481.0	2691.9	2900.5
-45°	636.6	775.5	935.5	1118.2	1308.6	1517.8	1751.7	1995.8	2280.3	2553.4	2746.3
-47.5°	595.8	717.0	864.6	1009.4	1181.8	1368.4	1568.2	1799.4	2038.0	2306.9	2570.7
-50°	556.9	668.0	781.5	912.1	1058.3	1222.4	1400.5	1604.1	1824.6	2045.0	2284.3
-52.5°	530.3	615.2	712.0	815.0	942.8	1083.4	1241.2	1414.0	1607.3	1799.9	2007.4
-55°	501.1	574.6	644.1	731.4	831.8	953.8	1090.8	1241.9	1389.3	1565.1	1741.3
-57.5°	472.6	533.6	589.3	656.3	740.2	829.8	954.3	1080.0	1208.1	1344.2	1493.1
-60°	443.6	493.6	542.4	596.5	657.6	737.0	823.6	928.7	1033.3	1142.0	1273.8
-62.5°	414.7	455.4	497.3	544.0	595.9	649.5	720.3	796.9	870.2	969.2	1074.2
-65°	391.5	419.5	454.1	495.2	537.1	586.1	635.5	683.4	747.8	822.9	899.0
-67.5°	366.5	392.8	418.2	447.1	485.0	525.4	566.2	609.2	652.8	704.4	760.0
-70°	348.3	366.9	389.5	413.3	438.2	467.5	503.8	539.5	576.2	619.2	663.5
-72.5°	331.1	348.2	365.1	381.8	404.2	428.5	452.5	476.4	507.0	543.7	579.0
-75°	313.5	329.2	344.7	359.9	376.7	394.9	413.7	435.3	459.1	484.5	509.0
-77.5°	295.5	309.4	323.5	337.5	352.9	369.0	385.4	401.9	420.6	440.3	459.4
-80°	276.2	289.3	301.8	314.3	328.2	342.5	357.2	371.9	388.5	405.5	421.3
-82.5°	255.0	266.5	278.3	289.8	302.7	315.5	328.5	341.5	356.1	370.8	384.4
-85°	234.6	243.5	253.9	264.2	275.9	287.5	299.2	310.7	324.1	337.4	349.2
-87.5°	219.4	228.0	236.4	244.8	254.8	264.8	274.9	284.8	296.6	308.3	318.5
-90°	8.8	8.2	8.2	8.2	7.6	7.0	7.0	7.0	6.4	5.8	5.3



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	306.8	313.2	319.6	324.9	330.1	337.1	344.1	353.5	362.8	372.2	381.5
87.5°	5.6	5.2	4.7	4.6	4.6	4.6	4.6	4.0	3.5	3.5	3.5
85°	6.6	6.5	6.4	6.0	5.6	5.6	5.7	5.6	5.6	5.2	4.7
82.5°	7.0	7.0	7.0	6.4	5.8	5.8	5.8	5.8	5.8	5.3	4.7
80°	7.4	7.3	7.0	6.8	6.6	6.3	5.9	5.4	4.9	4.8	4.7
77.5°	8.3	8.0	7.5	7.3	7.1	6.5	5.9	5.3	4.8	4.7	4.7
75°	9.4	9.1	8.8	8.4	7.8	7.4	7.4	7.1	6.6	6.7	6.8
72.5°	11.3	11.1	11.1	11.4	11.3	11.7	12.3	12.7	13.2	14.1	15.2
70°	16.8	17.9	18.5	18.8	18.7	18.5	18.5	18.8	19.4	19.9	20.4
67.5°	24.6	26.4	27.4	27.9	26.0	24.9	25.1	25.6	26.6	28.2	30.5
65°	32.1	31.6	30.7	30.1	30.3	30.5	30.3	30.7	32.2	34.6	37.7
62.5°	37.6	32.6	29.5	28.0	29.1	30.9	29.7	28.7	30.0	31.6	33.0
60°	43.0	33.6	26.9	24.8	24.5	25.3	23.2	21.3	21.9	22.4	23.2
57.5°	48.2	36.0	25.0	21.3	17.9	16.1	15.6	14.9	14.5	14.2	14.3
55°	52.8	39.2	24.5	21.7	19.3	18.7	17.2	16.4	15.7	15.4	15.7
52.5°	58.5	50.4	40.2	37.3	42.0	42.4	37.5	44.6	50.0	52.4	53.4
50°	95.7	85.7	102.9	101.3	121.4	135.6	130.6	146.4	170.0	184.8	190.9
47.5°	210.2	210.6	244.5	274.6	299.5	332.1	357.1	381.2	414.8	435.7	445.2
45°	398.8	432.8	468.2	519.8	569.4	629.6	702.2	759.2	988.0	1215.9	1423.2
42.5°	610.5	647.8	699.7	812.1	945.7	1255.0	1808.0	2116.8	2502.0	2921.4	3082.4
40°	786.7	840.8	983.3	1299.8	2070.9	2805.0	3611.5	4293.3	4896.9	5244.2	5534.4
37.5°	1004.4	1133.4	1782.4	2678.4	3637.0	4557.1	5387.6	6108.2	6733.7	7241.0	7743.2
35°	1321.4	2178.6	3137.4	4302.5	5321.5	6173.8	7034.3	7860.0	8569.4	9327.2	10453.0
32.5°	2505.1	3625.4	4858.7	5903.0	6899.0	7974.4	8878.5	10199.8	11234.6	12616.0	14727.3
30°	4020.9	5427.0	6545.3	7589.9	8866.9	10314.0	11823.7	13844.6	15956.3	18159.2	20426.2
27.5°	5967.2	7387.3	8566.2	9959.6	11645.8	13571.6	16458.0	19306.5	22335.0	25089.7	27183.3
25°	8313.1	9817.0	11832.2	13853.9	16266.9	19558.0	22800.9	26291.0	29327.3	32030.7	35056.8
22.5°	10511.6	12977.0	15638.1	18690.2	22619.7	26331.5	30341.0	33873.0	37683.5	41536.4	44516.3
20°	12367.7	15579.5	19396.9	23796.7	28152.3	32357.1	37023.0	42652.9	48325.6	53393.6	57071.3
17.5°	14871.4	18939.1	23690.8	28920.6	33609.7	38820.5	45314.3	52629.3	60578.2	67611.4	73188.1
15°	17607.1	22357.0	27729.8	33209.6	39142.1	46124.3	54474.5	63816.4	73539.6	83401.6	92589.5
12.5°	19466.9	25031.7	30899.0	37414.6	44814.1	54175.6	64315.0	74671.1	85782.6	98053.3	108711.3
10°	21056.8	27230.4	34308.9	41887.9	50390.3	60453.7	70933.3	83511.9	97381.6	109465.3	120881.1
7.5°	22629.4	29883.8	37278.0	45169.2	54510.6	65440.9	77843.4	91371.4	105486.4	118620.6	127956.0
5°	24490.2	32016.4	39410.0	47745.9	57528.4	68897.9	81979.8	97514.5	112386.0	124459.0	132879.1
2.5°	26028.8	33295.7	40866.5	49116.8	59170.8	71041.5	85239.7	102503.3	117763.1	129051.7	136670.8
0°	26812.3	34115.0	41782.8	50166.9	60473.5	72585.9	88076.7	106212.1	120634.4	131062.8	139222.4
-2.5°	26907.8	33854.5	41381.1	49650.2	59723.3	72076.0	87956.6	106306.2	121381.7	132220.6	140271.0
-5°	26629.7	33511.4	41023.5	49297.7	59234.6	72101.5	88046.6	105691.2	120258.4	131485.7	139067.2
-7.5°	25959.1	32881.3	40407.3	48559.6	58340.3	70819.3	85690.9	101684.6	116668.4	128799.3	135793.2
-10°	24976.5	31778.0	39188.0	46992.0	56215.9	67753.4	81053.4	95695.7	110837.0	122435.7	130501.3
-12.5°	23733.9	30170.9	37254.4	44632.5	53341.0	64090.2	75945.7	88206.5	100898.9	114122.2	122523.0
-15°	22307.3	28189.3	34819.8	42237.5	50847.3	59805.4	69222.7	79211.8	90814.8	101631.1	111409.7
-17.5°	20953.7	26019.6	32206.1	39433.3	46764.8	54548.6	62619.4	70774.8	80079.3	88569.9	96165.3
-20°	19252.5	23566.0	29266.1	35687.8	42500.4	49244.9	56177.3	62784.6	69539.3	76450.2	82482.5



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17247.4	21442.2	26198.1	31789.4	38329.9	44332.5	49884.7	55048.3	60462.5	65244.4	70208.8
-25°	15063.1	19096.3	23466.8	28563.9	33585.6	39027.4	43635.6	48026.8	52226.3	55981.2	59841.6
-27.5°	12380.7	16638.6	20946.7	25026.1	29170.0	33077.2	37373.8	41425.3	44927.5	48025.2	51084.8
-30°	9358.9	13878.2	17953.4	21452.8	24738.1	27996.9	31286.3	34685.9	38001.4	40822.1	43328.1
-32.5°	6905.2	10675.2	14442.1	17871.4	20746.6	23440.0	25998.1	28665.3	30984.3	33365.4	35682.8
-35°	4568.6	7233.3	10360.3	13846.6	16841.2	19107.0	21426.4	23553.0	25301.1	27147.1	28896.6
-37.5°	3844.9	4553.9	6645.8	9476.3	12249.7	14855.3	17168.4	19017.1	20626.1	22100.6	23611.6
-40°	3391.6	3796.1	4391.3	5419.6	7752.1	10044.2	12427.3	14392.4	16106.5	17519.9	18911.1
-42.5°	3094.1	3371.7	3668.1	4073.1	4472.3	5594.9	7551.1	9247.4	10855.0	12447.4	13880.7
-45°	2940.0	3095.7	3265.3	3485.5	3656.3	3960.5	4300.3	4619.6	5899.0	7281.7	8439.0
-47.5°	2755.1	2921.2	3047.9	3151.6	3234.7	3368.3	3509.6	3694.2	3990.4	4339.7	4606.3
-50°	2518.7	2720.4	2846.9	2950.9	3010.5	3062.2	3113.1	3228.8	3389.3	3579.7	3730.8
-52.5°	2213.2	2412.7	2591.8	2727.0	2792.9	2857.2	2921.1	3000.7	3092.0	3201.9	3280.8
-55°	1925.2	2091.9	2246.9	2372.9	2486.6	2590.2	2689.8	2774.1	2872.6	2977.2	3050.7
-57.5°	1651.9	1786.5	1913.6	2022.8	2121.2	2208.4	2310.2	2420.9	2546.8	2666.8	2751.1
-60°	1396.5	1503.4	1609.2	1697.9	1778.0	1849.4	1943.6	2036.4	2146.8	2245.1	2316.6
-62.5°	1168.0	1261.5	1339.6	1406.6	1467.0	1526.7	1605.9	1683.6	1774.3	1852.9	1912.3
-65°	970.4	1048.4	1103.4	1153.1	1196.9	1247.8	1309.1	1371.3	1442.7	1503.7	1552.5
-67.5°	818.1	870.9	905.5	936.2	972.5	1013.0	1059.3	1109.0	1164.5	1210.7	1248.0
-70°	702.9	735.9	756.9	779.8	806.2	834.3	865.6	903.0	945.2	981.3	1012.2
-72.5°	611.8	637.0	654.3	672.0	688.0	707.1	728.2	756.2	787.3	815.5	841.6
-75°	532.8	550.8	567.0	582.4	596.2	612.4	629.3	652.8	678.4	701.6	723.4
-77.5°	479.6	493.6	504.4	514.7	524.7	538.2	552.1	571.1	591.0	610.2	628.8
-80°	437.1	447.8	456.9	464.5	471.5	482.9	494.8	510.4	526.2	542.8	559.3
-82.5°	397.7	407.1	415.8	423.0	429.6	440.0	450.6	464.5	478.5	492.3	505.9
-85°	360.8	369.4	377.6	384.4	391.1	399.5	407.9	419.9	431.9	444.5	456.9
-87.5°	328.7	336.7	344.8	350.2	355.4	362.9	370.4	380.7	391.0	401.7	412.5
-90°	4.7	4.7	4.7	4.1	3.5	3.5	3.5	2.9	2.3	2.3	2.3



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	386.2	390.8	393.2	395.5	393.2	390.8	386.2	381.5	372.2	362.8	353.5
87.5°	2.9	2.3	2.3	2.3	2.3	2.3	2.9	3.5	3.5	3.5	4.0
85°	4.1	3.5	4.1	4.7	4.1	3.5	4.1	4.7	5.2	5.6	5.6
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.8	5.8
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	4.9	5.4
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	5.3
75°	6.4	5.8	5.8	5.8	5.8	5.8	6.4	6.8	6.7	6.6	7.1
72.5°	15.7	16.0	16.8	17.5	16.8	16.0	15.7	15.2	14.1	13.2	12.7
70°	20.7	20.9	21.0	21.0	21.0	20.9	20.7	20.4	19.9	19.4	18.8
67.5°	31.8	32.3	33.6	35.0	33.6	32.3	31.8	30.5	28.2	26.6	25.6
65°	39.8	41.4	41.9	42.0	41.9	41.4	39.8	37.7	34.6	32.2	30.7
62.5°	34.5	36.0	36.3	36.2	36.3	36.0	34.5	33.0	31.6	30.0	28.7
60°	24.0	24.7	25.1	25.7	25.1	24.7	24.0	23.2	22.4	21.9	21.3
57.5°	14.5	15.3	15.3	15.2	15.3	15.3	14.5	14.3	14.2	14.5	14.9
55°	15.9	16.2	15.9	15.2	15.9	16.2	15.9	15.7	15.4	15.7	16.4
52.5°	52.0	49.3	46.7	44.3	46.7	49.3	52.0	53.4	52.4	50.0	44.6
50°	188.9	185.8	181.3	176.2	181.3	185.8	188.9	190.9	184.8	170.0	146.4
47.5°	453.6	454.6	450.2	442.1	450.2	454.6	453.6	445.2	435.7	414.8	381.2
45°	1603.9	1691.1	1738.1	1770.8	1738.1	1691.1	1603.9	1423.2	1215.9	988.0	759.2
42.5°	3223.1	3345.5	3438.5	3457.7	3438.5	3345.5	3223.1	3082.4	2921.4	2502.0	2116.8
40°	5878.6	5899.0	5557.9	5043.1	5557.9	5899.0	5878.6	5534.4	5244.2	4896.9	4293.3
37.5°	8341.6	9202.3	10202.2	10712.6	10202.2	9202.3	8341.6	7743.2	7241.0	6733.7	6108.2
35°	11972.2	13266.9	13686.9	13697.8	13686.9	13266.9	11972.2	10453.0	9327.2	8569.4	7860.0
32.5°	16631.2	17684.0	18246.0	18093.4	18246.0	17684.0	16631.2	14727.3	12616.0	11234.6	10199.8
30°	21747.3	22663.2	22670.5	22364.2	22670.5	22663.2	21747.3	20426.2	18159.2	15956.3	13844.6
27.5°	29350.4	31285.7	32647.9	33014.9	32647.9	31285.7	29350.4	27183.3	25089.7	22335.0	19306.5
25°	37783.6	39910.3	41218.0	41694.2	41218.0	39910.3	37783.6	35056.8	32030.7	29327.3	26291.0
22.5°	47289.6	49357.3	50301.0	50794.5	50301.0	49357.3	47289.6	44516.3	41536.4	37683.5	33873.0
20°	60577.1	63517.0	64625.3	65098.9	64625.3	63517.0	60577.1	57071.3	53393.6	48325.6	42652.9
17.5°	78982.5	84788.9	88419.4	90283.9	88419.4	84788.9	78982.5	73188.1	67611.4	60578.2	52629.3
15°	99389.3	105284.0	109160.5	111485.0	109160.5	105284.0	99389.3	92589.5	83401.6	73539.6	63816.4
12.5°	116895.9	122150.7	125894.9	128120.8	125894.9	122150.7	116895.9	108711.3	98053.3	85782.6	74671.1
10°	128126.9	132633.4	136518.0	138415.1	136518.0	132633.4	128126.9	120881.1	109465.3	97381.6	83511.9
7.5°	134474.4	139714.4	141820.1	143117.6	141820.1	139714.4	134474.4	127956.0	118620.6	105486.4	91371.4
5°	139393.8	143534.6	145478.5	146427.1	145478.5	143534.6	139393.8	132879.1	124459.0	112386.0	97514.5
2.5°	142677.8	146272.6	147647.2	148412.6	147647.2	146272.6	142677.8	136670.8	129051.7	117763.1	102503.3
0°	144253.8	146904.2	148445.3	147694.0	148445.3	146904.2	144253.8	139222.4	131062.8	120634.4	106212.1
-2.5°	144264.7	146784.1	147929.7	147372.0	147929.7	146784.1	144264.7	140271.0	132220.6	121381.7	106306.2
-5°	143030.5	144910.7	146306.1	145859.0	146306.1	144910.7	143030.5	139067.2	131485.7	120258.4	105691.2
-7.5°	139702.1	142201.0	143222.9	143272.7	143222.9	142201.0	139702.1	135793.2	128799.3	116668.4	101684.6
-10°	135123.3	137893.8	138981.8	139092.9	138981.8	137893.8	135123.3	130501.3	122435.7	110837.0	95695.7
-12.5°	128317.9	131568.0	133133.9	133413.0	133133.9	131568.0	128317.9	122523.0	114122.2	100898.9	88206.5
-15°	117753.6	122134.2	124606.8	125474.5	124606.8	122134.2	117753.6	111409.7	101631.1	90814.8	79211.8
-17.5°	103391.9	108625.8	111709.0	112796.2	111709.0	108625.8	103391.9	96165.3	88569.9	80079.3	70774.8
-20°	88411.3	92291.5	94668.3	95647.7	94668.3	92291.5	88411.3	82482.5	76450.2	69539.3	62784.6



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	74785.0	77913.3	79679.3	80463.7	79679.3	77913.3	74785.0	70208.8	65244.4	60462.5	55048.3
-25°	62966.7	65601.6	66507.2	67017.9	66507.2	65601.6	62966.7	59841.6	55981.2	52226.3	48026.8
-27.5°	53310.4	55400.6	55888.4	56339.2	55888.4	55400.6	53310.4	51084.8	48025.2	44927.5	41425.3
-30°	45173.8	46992.7	47241.4	47740.5	47241.4	46992.7	45173.8	43328.1	40822.1	38001.4	34685.9
-32.5°	37564.4	39184.1	39804.6	39900.0	39804.6	39184.1	37564.4	35682.8	33365.4	30984.3	28665.3
-35°	30277.9	31345.4	31767.8	31793.5	31767.8	31345.4	30277.9	28896.6	27147.1	25301.1	23553.0
-37.5°	24548.9	25229.5	25718.7	25583.9	25718.7	25229.5	24548.9	23611.6	22100.6	20626.1	19017.1
-40°	19690.6	20375.2	20822.3	20713.5	20822.3	20375.2	19690.6	18911.1	17519.9	16106.5	14392.4
-42.5°	14671.3	15424.3	15846.9	15729.9	15846.9	15424.3	14671.3	13880.7	12447.4	10855.0	9247.4
-45°	9098.8	9762.5	10073.9	9884.3	10073.9	9762.5	9098.8	8439.0	7281.7	5899.0	4619.6
-47.5°	4746.8	4897.9	4946.2	4878.6	4946.2	4897.9	4746.8	4606.3	4339.7	3990.4	3694.2
-50°	3848.7	3943.4	3984.2	3972.2	3984.2	3943.4	3848.7	3730.8	3579.7	3389.3	3228.8
-52.5°	3342.7	3386.5	3401.0	3392.4	3401.0	3386.5	3342.7	3280.8	3201.9	3092.0	3000.7
-55°	3112.8	3156.3	3171.3	3166.1	3171.3	3156.3	3112.8	3050.7	2977.2	2872.6	2774.1
-57.5°	2821.1	2874.5	2907.6	2924.6	2907.6	2874.5	2821.1	2751.1	2666.8	2546.8	2420.9
-60°	2374.3	2417.0	2429.3	2423.0	2429.3	2417.0	2374.3	2316.6	2245.1	2146.8	2036.4
-62.5°	1959.0	1994.1	2020.3	2038.0	2020.3	1994.1	1959.0	1912.3	1852.9	1774.3	1683.6
-65°	1588.3	1613.6	1618.9	1614.5	1618.9	1613.6	1588.3	1552.5	1503.7	1442.7	1371.3
-67.5°	1274.2	1293.0	1295.5	1291.4	1295.5	1293.0	1274.2	1248.0	1210.7	1164.5	1109.0
-70°	1033.0	1048.9	1051.0	1048.7	1051.0	1048.9	1033.0	1012.2	981.3	945.2	903.0
-72.5°	856.9	868.4	877.3	884.3	877.3	868.4	856.9	841.6	815.5	787.3	756.2
-75°	734.5	742.8	744.9	745.4	744.9	742.8	734.5	723.4	701.6	678.4	652.8
-77.5°	638.5	646.8	652.8	657.9	652.8	646.8	638.5	628.8	610.2	591.0	571.1
-80°	566.6	572.9	577.7	582.1	577.7	572.9	566.6	559.3	542.8	526.2	510.4
-82.5°	513.0	519.6	523.6	527.3	523.6	519.6	513.0	505.9	492.3	478.5	464.5
-85°	462.3	467.4	471.2	474.8	471.2	467.4	462.3	456.9	444.5	431.9	419.9
-87.5°	417.4	422.2	424.6	427.0	424.6	422.2	417.4	412.5	401.7	391.0	380.7
-90°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3	2.3	2.9



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	344.1	337.1	330.1	324.9	319.6	313.2	306.8	296.9	287.0	276.5	266.0
87.5°	4.6	4.6	4.6	4.6	4.7	5.2	5.6	5.7	5.8	6.4	7.0
85°	5.7	5.6	5.6	6.0	6.4	6.5	6.6	6.5	6.5	7.0	7.5
82.5°	5.8	5.8	5.8	6.4	7.0	7.0	7.0	7.2	7.4	7.8	8.3
80°	5.9	6.3	6.6	6.8	7.0	7.3	7.4	7.8	8.2	8.2	8.3
77.5°	5.9	6.5	7.1	7.3	7.5	8.0	8.3	8.2	8.3	8.7	8.9
75°	7.4	7.4	7.8	8.4	8.8	9.1	9.4	9.6	9.6	9.6	9.8
72.5°	12.3	11.7	11.3	11.4	11.1	11.1	11.3	11.4	11.5	11.0	10.7
70°	18.5	18.5	18.7	18.8	18.5	17.9	16.8	15.4	14.3	14.2	13.2
67.5°	25.1	24.9	26.0	27.9	27.4	26.4	24.6	22.8	21.1	19.6	16.9
65°	30.3	30.5	30.3	30.1	30.7	31.6	32.1	30.4	30.5	27.8	22.3
62.5°	29.7	30.9	29.1	28.0	29.5	32.6	37.6	40.2	42.4	39.9	33.4
60°	23.2	25.3	24.5	24.8	26.9	33.6	43.0	50.3	56.4	52.4	44.9
57.5°	15.6	16.1	17.9	21.3	25.0	36.0	48.2	59.4	67.3	62.5	56.1
55°	17.2	18.7	19.3	21.7	24.5	39.2	52.8	64.5	72.8	70.5	63.9
52.5°	37.5	42.4	42.0	37.3	40.2	50.4	58.5	71.6	79.0	78.8	73.3
50°	130.6	135.6	121.4	101.3	102.9	85.7	95.7	98.1	95.4	96.2	87.9
47.5°	357.1	332.1	299.5	274.6	244.5	210.6	210.2	171.5	166.4	134.4	128.6
45°	702.2	629.6	569.4	519.8	468.2	432.8	398.8	378.3	299.7	269.9	194.0
42.5°	1808.0	1255.0	945.7	812.1	699.7	647.8	610.5	585.3	549.9	456.9	382.9
40°	3611.5	2805.0	2070.9	1299.8	983.3	840.8	786.7	727.7	721.6	673.5	576.3
37.5°	5387.6	4557.1	3637.0	2678.4	1782.4	1133.4	1004.4	915.9	850.6	832.8	762.7
35°	7034.3	6173.8	5321.5	4302.5	3137.4	2178.6	1321.4	1164.7	1039.1	965.5	923.4
32.5°	8878.5	7974.4	6899.0	5903.0	4858.7	3625.4	2505.1	1552.0	1274.5	1146.8	1048.1
30°	11823.7	10314.0	8866.9	7589.9	6545.3	5427.0	4020.9	2594.8	1643.3	1334.7	1180.1
27.5°	16458.0	13571.6	11645.8	9959.6	8566.2	7387.3	5967.2	4069.5	2264.7	1629.0	1352.7
25°	22800.9	19558.0	16266.9	13853.9	11832.2	9817.0	8313.1	6017.2	3704.4	1978.8	1545.3
22.5°	30341.0	26331.5	22619.7	18690.2	15638.1	12977.0	10511.6	7986.7	5207.1	2781.2	1872.7
20°	37023.0	32357.1	28152.3	23796.7	19396.9	15579.5	12367.7	9724.6	6824.6	4050.3	2190.7
17.5°	45314.3	38820.5	33609.7	28920.6	23690.8	18939.1	14871.4	11581.6	8335.4	5109.7	2451.5
15°	54474.5	46124.3	39142.1	33209.6	27729.8	22357.0	17607.1	13567.1	10022.3	6230.0	3220.7
12.5°	64315.0	54175.6	44814.1	37414.6	30899.0	25031.7	19466.9	15293.2	11588.6	7577.1	4068.0
10°	70933.3	60453.7	50390.3	41887.9	34308.9	27230.4	21056.8	16358.6	12606.5	8756.3	4897.7
7.5°	77843.4	65440.9	54510.6	45169.2	37278.0	29883.8	22629.4	17181.7	13389.5	9636.7	5542.1
5°	81979.8	68897.9	57528.4	47745.9	39410.0	32016.4	24490.2	17914.9	14036.4	10297.4	6034.7
2.5°	85239.7	71041.5	59170.8	49116.8	40866.5	33295.7	26028.8	18636.0	14384.5	10607.8	6171.8
0°	88076.7	72585.9	60473.5	50166.9	41782.8	34115.0	26812.3	19338.1	14489.9	10684.6	6147.8
-2.5°	87956.6	72076.0	59723.3	49650.2	41381.1	33854.5	26907.8	20241.1	15228.4	10749.5	6156.9
-5°	88046.6	72101.5	59234.6	49297.7	41023.5	33511.4	26629.7	20505.0	15617.2	10661.7	6017.0
-7.5°	85690.9	70819.3	58340.3	48559.6	40407.3	32881.3	25959.1	20173.0	15634.9	10666.6	5789.3
-10°	81053.4	67753.4	56215.9	46992.0	39188.0	31778.0	24976.5	19626.2	15211.7	10243.1	5398.4
-12.5°	75945.7	64090.2	53341.0	44632.5	37254.4	30170.9	23733.9	18844.4	14441.3	9448.8	5015.9
-15°	69222.7	59805.4	50847.3	42237.5	34819.8	28189.3	22307.3	17861.4	13463.7	8417.7	4421.7
-17.5°	62619.4	54548.6	46764.8	39433.3	32206.1	26019.6	20953.7	16567.1	12072.9	7239.9	3642.4
-20°	56177.3	49244.9	42500.4	35687.8	29266.1	23566.0	19252.5	14995.3	10334.0	6085.7	3515.8



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	49884.7	44332.5	38329.9	31789.4	26198.1	21442.2	17247.4	13049.7	8347.5	4728.4	3347.5
-25°	43635.6	39027.4	33585.6	28563.9	23466.8	19096.3	15063.1	10641.5	6647.8	3931.5	3122.8
-27.5°	37373.8	33077.2	29170.0	25026.1	20946.7	16638.6	12380.7	8132.4	4759.5	3569.7	2998.2
-30°	31286.3	27996.9	24738.1	21452.8	17953.4	13878.2	9358.9	5967.0	3942.4	3227.4	2837.0
-32.5°	25998.1	23440.0	20746.6	17871.4	14442.1	10675.2	6905.2	4304.6	3473.8	3035.6	2738.4
-35°	21426.4	19107.0	16841.2	13846.6	10360.3	7233.3	4568.6	3719.2	3188.1	2850.7	2650.0
-37.5°	17168.4	14855.3	12249.7	9476.3	6645.8	4553.9	3844.9	3324.3	2945.9	2734.2	2531.9
-40°	12427.3	10044.2	7752.1	5419.6	4391.3	3796.1	3391.6	3051.7	2824.8	2604.2	2404.3
-42.5°	7551.1	5594.9	4472.3	4073.1	3668.1	3371.7	3094.1	2900.5	2691.9	2481.0	2213.1
-45°	4300.3	3960.5	3656.3	3485.5	3265.3	3095.7	2940.0	2746.3	2553.4	2280.3	1995.8
-47.5°	3509.6	3368.3	3234.7	3151.6	3047.9	2921.2	2755.1	2570.7	2306.9	2038.0	1799.4
-50°	3113.1	3062.2	3010.5	2950.9	2846.9	2720.4	2518.7	2284.3	2045.0	1824.6	1604.1
-52.5°	2921.1	2857.2	2792.9	2727.0	2591.8	2412.7	2213.2	2007.4	1799.9	1607.3	1414.0
-55°	2689.8	2590.2	2486.6	2372.9	2246.9	2091.9	1925.2	1741.3	1565.1	1389.3	1241.9
-57.5°	2310.2	2208.4	2121.2	2022.8	1913.6	1786.5	1651.9	1493.1	1344.2	1208.1	1080.0
-60°	1943.6	1849.4	1778.0	1697.9	1609.2	1503.4	1396.5	1273.8	1142.0	1033.3	928.7
-62.5°	1605.9	1526.7	1467.0	1406.6	1339.6	1261.5	1168.0	1074.2	969.2	870.2	796.9
-65°	1309.1	1247.8	1196.9	1153.1	1103.4	1048.4	970.4	899.0	822.9	747.8	683.4
-67.5°	1059.3	1013.0	972.5	936.2	905.5	870.9	818.1	760.0	704.4	652.8	609.2
-70°	865.6	834.3	806.2	779.8	756.9	735.9	702.9	663.5	619.2	576.2	539.5
-72.5°	728.2	707.1	688.0	672.0	654.3	637.0	611.8	579.0	543.7	507.0	476.4
-75°	629.3	612.4	596.2	582.4	567.0	550.8	532.8	509.0	484.5	459.1	435.3
-77.5°	552.1	538.2	524.7	514.7	504.4	493.6	479.6	459.4	440.3	420.6	401.9
-80°	494.8	482.9	471.5	464.5	456.9	447.8	437.1	421.3	405.5	388.5	371.9
-82.5°	450.6	440.0	429.6	423.0	415.8	407.1	397.7	384.4	370.8	356.1	341.5
-85°	407.9	399.5	391.1	384.4	377.6	369.4	360.8	349.2	337.4	324.1	310.7
-87.5°	370.4	362.9	355.4	350.2	344.8	336.7	328.7	318.5	308.3	296.6	284.8
-90°	3.5	3.5	3.5	4.1	4.7	4.7	4.7	5.3	5.8	6.4	7.0



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	256.1	246.1	236.8	227.5	219.9	212.3	204.2	196.0	182.6	169.2	150.5
87.5°	7.4	7.8	8.3	8.8	8.8	8.8	9.3	9.8	10.0	10.1	10.6
85°	8.0	8.5	8.9	9.3	9.4	9.3	9.8	10.3	10.7	11.0	11.3
82.5°	8.8	9.2	9.2	9.4	10.1	10.5	10.6	10.9	11.4	11.8	12.0
80°	8.8	9.4	9.6	9.8	10.8	11.7	11.4	11.5	12.1	12.6	12.8
77.5°	9.3	9.7	10.1	10.5	11.1	11.8	11.9	12.1	12.9	13.4	13.5
75°	10.2	10.3	10.4	10.8	11.5	11.9	12.2	12.6	13.5	14.2	14.2
72.5°	11.1	11.0	10.8	11.1	12.0	12.6	12.9	13.2	14.0	14.8	15.0
70°	12.4	11.9	11.5	11.9	12.7	13.4	13.9	14.3	14.6	15.4	15.9
67.5°	14.0	13.3	12.6	12.9	13.5	14.6	15.1	15.6	16.0	16.2	16.8
65°	19.3	16.9	14.0	14.7	14.9	16.0	16.8	17.3	17.4	17.8	17.8
62.5°	27.1	22.8	20.3	17.9	17.6	19.0	18.8	20.2	19.2	19.5	19.3
60°	37.0	30.5	27.4	24.8	23.2	23.1	23.9	23.5	23.2	21.3	21.1
57.5°	46.3	37.6	36.6	33.1	32.0	30.3	30.5	29.9	28.1	26.2	23.1
55°	54.7	47.2	47.3	44.8	43.7	40.2	39.9	38.5	34.8	32.5	25.5
52.5°	63.4	60.7	59.9	60.7	59.8	53.6	53.0	48.1	45.3	39.5	32.1
50°	77.0	79.5	76.7	81.2	78.7	74.8	67.3	62.1	56.4	48.0	39.3
47.5°	111.7	113.6	104.9	108.3	104.2	98.7	88.7	77.8	68.3	58.9	46.5
45°	194.0	166.9	156.4	146.3	137.2	129.9	113.9	94.4	83.4	70.1	54.0
42.5°	307.0	270.0	240.7	190.4	186.7	166.1	142.1	119.5	99.2	81.6	63.0
40°	484.1	415.3	351.5	295.7	248.2	206.2	179.6	147.4	115.6	94.3	73.3
37.5°	672.6	585.3	501.7	415.9	329.8	271.2	221.2	176.8	135.2	109.1	83.8
35°	840.4	762.7	647.2	547.5	448.6	339.2	265.8	210.9	161.8	124.4	94.5
32.5°	984.5	910.1	784.4	673.5	544.9	408.9	322.0	249.5	188.9	140.0	105.6
30°	1100.3	1015.6	910.2	773.6	625.2	487.7	380.6	287.5	216.4	155.9	117.4
27.5°	1213.3	1117.3	1021.1	865.4	699.9	555.3	429.4	324.7	244.3	173.8	130.3
25°	1348.6	1223.6	1117.7	965.2	773.1	609.9	473.2	361.2	274.2	194.4	142.7
22.5°	1517.3	1328.1	1215.7	1070.1	856.7	663.8	516.0	399.8	299.9	213.9	154.5
20°	1664.8	1420.7	1309.5	1167.7	947.4	732.5	560.1	432.0	324.3	232.2	165.8
17.5°	1820.3	1517.8	1369.7	1237.0	1035.8	801.8	606.4	462.5	347.3	249.2	176.5
15°	2029.1	1622.5	1424.8	1296.8	1111.4	868.4	651.6	491.4	368.6	265.0	186.8
12.5°	2200.7	1720.1	1479.1	1343.7	1169.9	928.8	694.9	518.5	388.3	280.9	197.1
10°	2365.9	1824.3	1538.2	1388.1	1219.2	982.9	735.7	547.1	411.5	296.7	206.7
7.5°	2547.8	1922.5	1595.2	1430.4	1260.8	1028.0	777.6	581.4	434.0	311.3	215.6
5°	2694.9	2009.6	1653.9	1477.7	1300.9	1062.7	815.6	613.5	454.8	324.5	223.8
2.5°	2737.2	2082.5	1711.2	1522.4	1334.9	1090.0	848.8	643.1	473.5	336.3	231.3
0°	2748.4	2141.8	1762.7	1562.0	1362.5	1110.6	877.3	669.6	490.0	346.5	238.0
-2.5°	2806.6	2189.6	1808.8	1618.9	1411.8	1137.2	893.4	683.3	503.9	358.4	247.7
-5°	2838.9	2223.3	1849.7	1669.4	1452.3	1157.1	904.7	693.4	515.2	368.4	256.4
-7.5°	2857.2	2247.7	1886.7	1711.4	1482.1	1169.6	911.0	700.0	523.7	376.6	264.2
-10°	2848.4	2259.4	1918.5	1735.0	1496.1	1181.5	914.3	703.1	529.4	382.9	271.0
-12.5°	2861.4	2262.1	1944.0	1752.5	1501.1	1192.5	925.4	708.1	532.4	387.1	276.7
-15°	2861.9	2289.7	1985.0	1766.9	1498.3	1195.4	929.7	710.6	533.2	389.4	281.3
-17.5°	2796.9	2292.0	2022.9	1787.7	1489.7	1190.0	926.8	707.6	531.0	390.0	285.3
-20°	2777.8	2311.0	2044.6	1797.9	1471.1	1177.7	916.7	698.9	525.5	388.5	288.6



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2751.8	2352.5	2069.3	1775.3	1444.4	1158.6	902.1	684.9	516.8	385.1	290.9
-25°	2671.1	2379.1	2080.8	1749.1	1415.9	1137.4	884.6	672.6	504.8	379.6	292.2
-27.5°	2623.6	2366.4	2073.9	1705.7	1385.4	1107.4	866.3	663.6	496.7	372.1	292.4
-30°	2594.7	2327.4	2012.5	1649.5	1340.5	1071.4	843.1	649.6	490.3	369.0	291.5
-32.5°	2527.7	2280.5	1919.8	1585.5	1290.5	1029.1	814.8	630.2	480.5	368.7	290.8
-35°	2427.1	2163.0	1810.0	1504.8	1235.0	991.8	782.8	605.4	467.3	366.6	289.8
-37.5°	2309.8	1998.2	1710.0	1419.3	1163.6	945.8	750.1	582.9	450.7	362.6	288.0
-40°	2126.0	1837.0	1575.5	1329.0	1092.5	888.6	712.0	561.3	440.6	356.9	285.0
-42.5°	1934.3	1677.9	1442.8	1221.6	1016.5	834.2	670.3	535.8	432.3	351.2	280.8
-45°	1751.7	1517.8	1308.6	1118.2	935.5	775.5	636.6	509.2	421.6	345.0	276.8
-47.5°	1568.2	1368.4	1181.8	1009.4	864.6	717.0	595.8	494.2	408.7	337.3	273.5
-50°	1400.5	1222.4	1058.3	912.1	781.5	668.0	556.9	476.6	397.1	327.5	269.3
-52.5°	1241.2	1083.4	942.8	815.0	712.0	615.2	530.3	455.3	383.3	319.2	264.0
-55°	1090.8	953.8	831.8	731.4	644.1	574.6	501.1	433.9	367.5	311.0	258.3
-57.5°	954.3	829.8	740.2	656.3	589.3	533.6	472.6	410.6	354.9	301.7	255.4
-60°	823.6	737.0	657.6	596.5	542.4	493.6	443.6	388.3	342.6	292.4	251.3
-62.5°	720.3	649.5	595.9	544.0	497.3	455.4	414.7	370.5	328.3	286.4	246.4
-65°	635.5	586.1	537.1	495.2	454.1	419.5	391.5	351.6	317.3	279.6	240.6
-67.5°	566.2	525.4	485.0	447.1	418.2	392.8	366.5	337.0	306.8	272.1	233.7
-70°	503.8	467.5	438.2	413.3	389.5	366.9	348.3	323.7	295.6	262.9	226.2
-72.5°	452.5	428.5	404.2	381.8	365.1	348.2	331.1	309.7	282.9	253.0	218.1
-75°	413.7	394.9	376.7	359.9	344.7	329.2	313.5	294.9	269.7	242.4	208.6
-77.5°	385.4	369.0	352.9	337.5	323.5	309.4	295.5	279.5	255.5	229.8	198.2
-80°	357.2	342.5	328.2	314.3	301.8	289.3	276.2	261.6	239.3	216.5	187.3
-82.5°	328.5	315.5	302.7	289.8	278.3	266.5	255.0	242.6	222.7	202.7	177.1
-85°	299.2	287.5	275.9	264.2	253.9	243.5	234.6	225.1	208.5	191.7	168.6
-87.5°	274.9	264.8	254.8	244.8	236.4	228.0	219.4	210.7	195.7	180.6	159.7
-90°	7.0	7.0	7.6	8.2	8.2	8.2	8.8	9.3	9.3	9.3	9.9



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	131.8	109.0	86.3	61.8	37.3	25.0	12.8
87.5°	11.1	11.0	10.9	10.9	10.8	11.9	12.8
85°	11.7	11.5	11.3	11.3	11.1	12.2	12.8
82.5°	12.3	12.0	11.7	11.6	11.4	12.4	12.8
80°	12.9	12.5	12.1	12.0	11.8	12.7	12.8
77.5°	13.5	13.1	12.5	12.4	12.1	13.0	12.8
75°	14.2	13.9	13.0	12.8	12.5	13.2	12.8
72.5°	14.9	14.7	13.9	13.2	12.8	13.5	12.8
70°	15.7	15.5	14.7	13.6	13.2	13.8	12.8
67.5°	16.7	16.4	15.5	14.3	13.6	14.0	12.8
65°	17.8	17.3	16.4	15.0	14.0	14.3	12.8
62.5°	18.9	18.3	17.2	15.7	14.5	14.6	12.8
60°	20.0	19.3	18.1	16.4	14.9	14.9	12.8
57.5°	22.2	20.3	19.2	17.0	15.7	15.2	12.8
55°	24.7	21.3	20.5	17.7	16.5	15.5	12.8
52.5°	27.5	22.7	21.9	18.4	17.3	15.7	12.8
50°	30.5	25.9	23.3	19.0	18.2	16.0	12.8
47.5°	34.2	29.3	24.9	19.8	19.1	16.3	12.8
45°	40.7	32.8	26.6	21.1	20.1	16.6	12.8
42.5°	47.1	36.6	28.4	22.4	21.2	16.9	12.8
40°	54.0	40.5	30.8	24.4	22.2	17.2	12.8
37.5°	61.4	44.5	33.9	26.7	23.3	17.5	12.8
35°	68.9	49.9	37.0	29.1	24.5	17.8	12.8
32.5°	77.0	55.9	40.1	31.6	25.6	18.0	12.8
30°	86.4	61.8	43.3	34.0	26.8	18.3	12.8
27.5°	95.6	67.6	47.6	36.6	28.1	18.6	12.8
25°	104.5	73.3	51.9	39.1	29.3	18.8	12.8
22.5°	113.2	79.2	56.1	41.7	30.5	19.1	12.8
20°	121.6	85.6	60.3	44.2	31.8	19.4	12.8
17.5°	130.0	91.7	64.3	46.8	33.0	19.6	12.8
15°	138.1	97.5	68.2	49.3	34.2	19.8	12.8
12.5°	145.8	103.0	72.0	51.7	35.4	20.1	12.8
10°	152.9	108.3	75.7	54.2	36.6	20.3	12.8
7.5°	159.6	113.2	79.2	56.5	37.7	20.5	12.8
5°	165.7	117.8	82.6	58.8	38.8	20.7	12.8
2.5°	171.2	122.1	85.7	60.9	39.8	20.8	12.8
0°	176.2	126.0	88.7	63.0	40.8	21.0	12.8
-2.5°	183.7	131.8	92.8	65.8	42.6	21.8	12.8
-5°	190.6	137.1	96.7	68.4	44.2	22.6	12.8
-7.5°	196.8	142.1	100.4	70.9	45.8	23.4	12.8
-10°	202.4	146.6	103.8	73.3	47.3	24.1	12.8
-12.5°	207.2	150.6	106.9	75.5	48.7	24.8	12.8
-15°	211.2	154.1	109.8	77.5	50.0	25.5	12.8
-17.5°	214.5	157.1	112.4	79.3	51.2	26.1	12.8
-20°	217.4	159.6	114.7	81.0	52.3	26.8	12.8



REPORT NUMBER: P701478 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	220.4	161.5	116.6	82.5	53.3	27.3	12.8
-25°	222.6	163.7	118.2	83.8	54.1	27.9	12.8
-27.5°	223.9	165.9	119.5	85.0	54.9	28.4	12.8
-30°	224.3	167.5	120.6	85.9	55.5	28.8	12.8
-32.5°	223.9	168.5	122.7	86.6	56.0	29.2	12.8
-35°	223.9	169.0	124.4	87.1	56.4	29.6	12.8
-37.5°	223.9	169.6	125.7	87.5	56.6	29.9	12.8
-40°	223.1	170.8	126.7	87.6	56.8	30.1	12.8
-42.5°	221.9	171.7	127.6	87.8	56.8	30.3	12.8
-45°	220.0	172.1	128.3	88.3	56.6	30.5	12.8
-47.5°	217.2	172.1	128.6	88.5	56.4	30.6	12.8
-50°	216.3	171.7	128.4	88.6	56.0	30.6	12.8
-52.5°	215.1	170.8	127.8	88.4	55.5	30.6	12.8
-55°	213.3	169.3	126.8	88.0	54.9	30.5	12.8
-57.5°	211.0	167.3	125.3	87.3	54.2	30.4	12.8
-60°	208.0	164.7	123.5	86.4	53.3	30.3	12.8
-62.5°	204.1	161.7	121.8	85.3	52.6	30.1	12.8
-65°	199.7	158.2	119.7	83.9	51.7	29.8	12.8
-67.5°	194.6	154.4	117.3	82.3	50.8	29.5	12.8
-70°	189.1	150.3	114.5	80.4	49.7	29.2	12.8
-72.5°	182.4	145.6	111.5	78.7	48.4	28.8	12.8
-75°	175.1	140.5	108.1	76.8	47.1	28.4	12.8
-77.5°	167.2	134.9	105.0	74.7	45.7	27.9	12.8
-80°	158.8	129.9	101.7	72.5	44.1	27.4	12.8
-82.5°	152.3	125.1	98.2	70.0	42.5	26.8	12.8
-85°	145.8	120.0	94.4	67.4	40.9	26.3	12.8
-87.5°	138.9	114.6	90.5	64.7	39.1	25.7	12.8
-90°	10.5	10.5	10.5	10.5	10.5	11.7	12.8

(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

