

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: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-7F-VHE-S**

Issue Date: 8/29/2023

Test Information

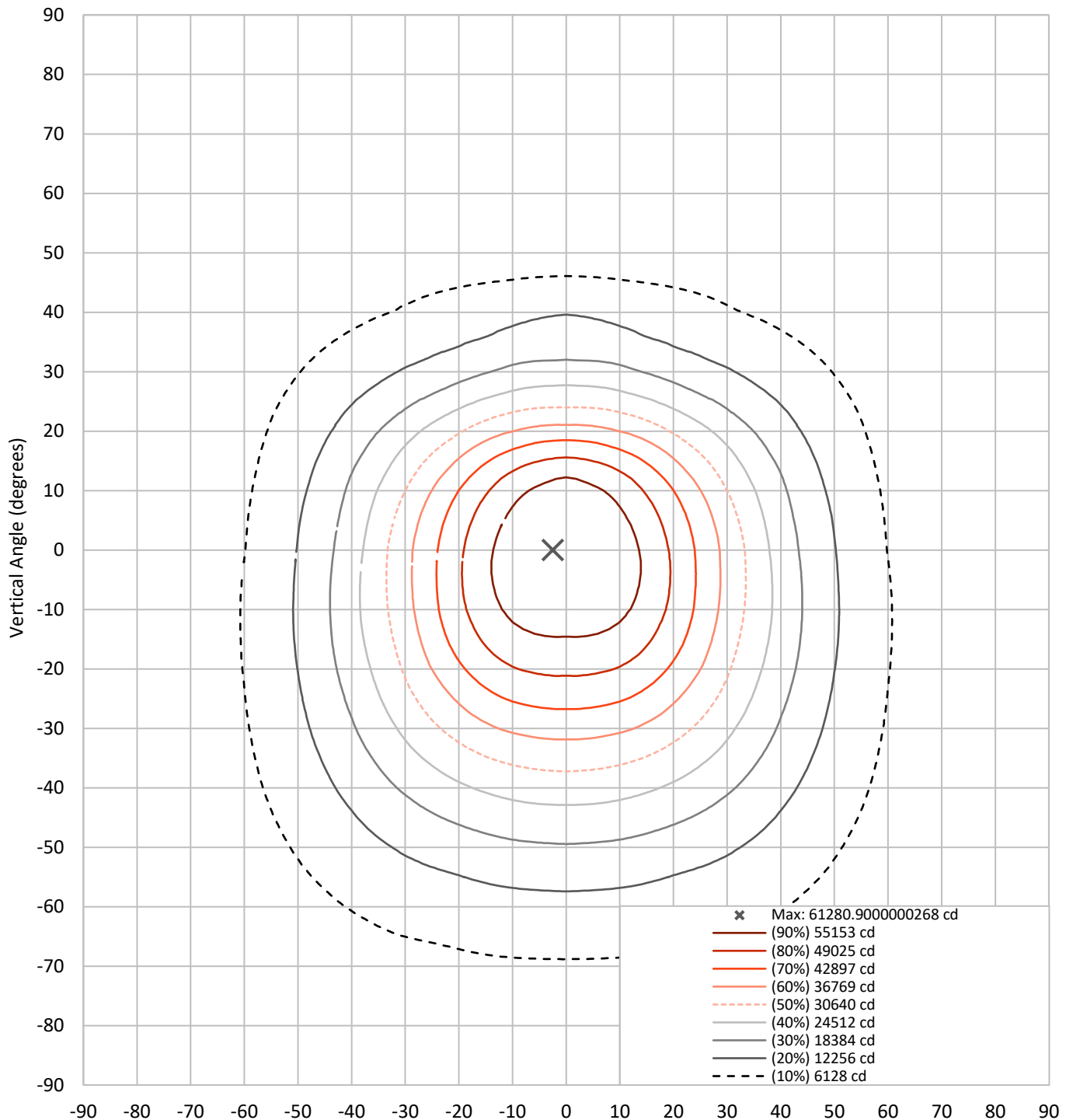
Test Method: LM-79-08
Report Number: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-7F-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	81526.1 lumens	Max Intensity:	61280.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	123.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	44264.7 lumens	Field Lumens:	76397.3 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
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-40-70-7F-VHE-S

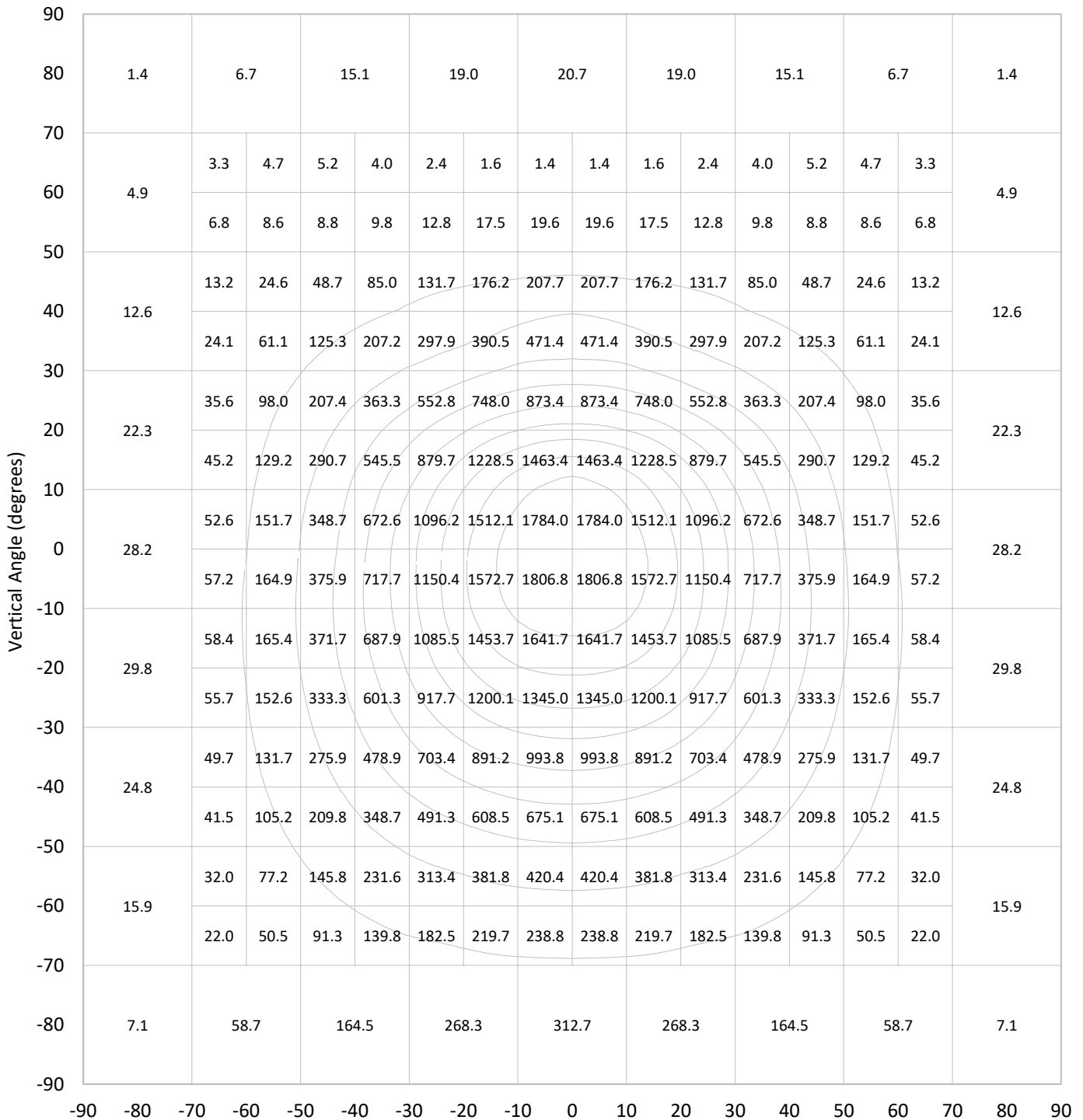
Iso-Candela Plot





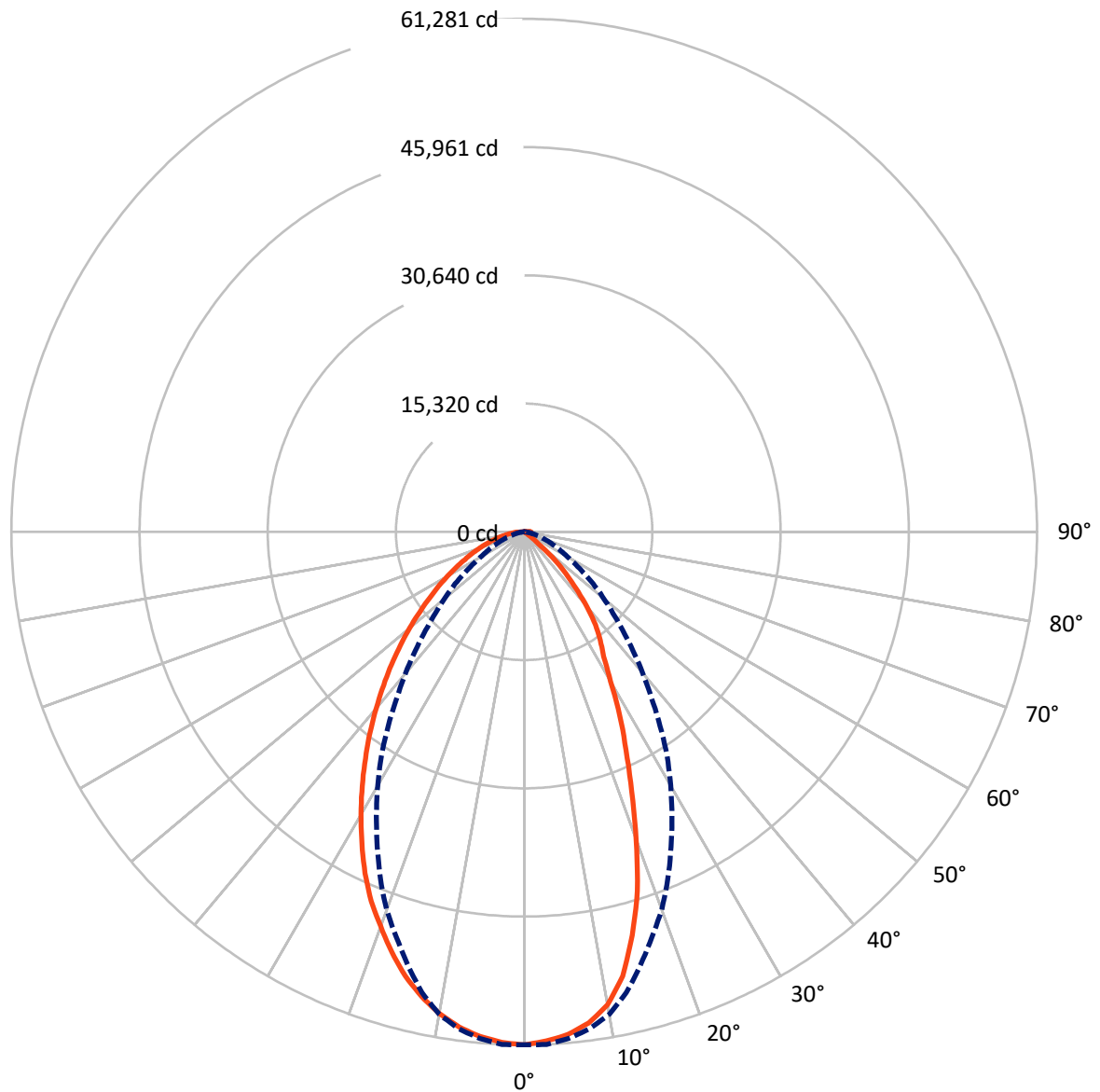
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Lumen Table



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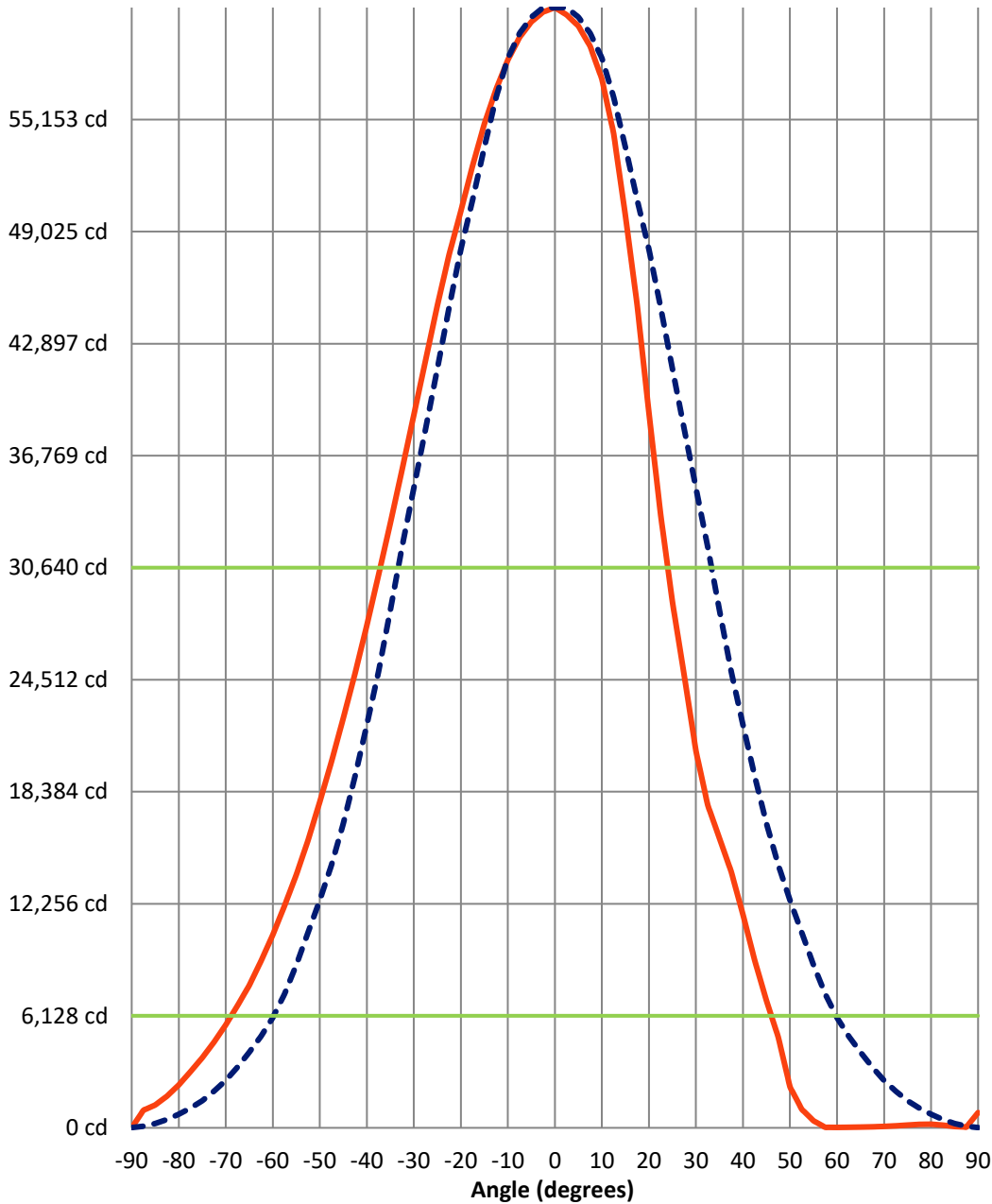
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 44264.7
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 76397.3
 Efficiency: 93.7%

Spill:
 Lumens: 5128.7
 Efficiency: 6.3%

— 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°	13.3	46.7	80.1	123.9	167.8	211.6	255.4	287.3	319.3	351.2	383.1
87.5°	13.3	16.9	19.4	21.0	22.3	23.4	24.1	24.1	23.7	23.1	22.2
85°	13.3	19.6	23.5	26.8	29.5	31.5	33.0	33.4	33.3	32.5	31.1
82.5°	13.3	22.2	27.7	32.6	36.6	39.7	42.0	42.9	43.6	46.8	49.3
80°	13.3	24.9	31.9	38.3	43.7	47.9	51.9	58.5	64.2	69.0	72.8
77.5°	13.3	27.5	36.1	44.1	50.8	59.4	69.1	77.3	84.8	91.2	94.2
75°	13.3	30.1	40.3	49.8	59.7	77.0	86.6	96.1	105.9	112.3	109.2
72.5°	13.3	32.7	44.5	55.5	76.2	94.8	104.6	117.2	131.4	134.3	126.0
70°	13.3	35.3	48.8	62.8	92.8	112.9	124.5	145.6	158.1	158.2	161.8
67.5°	13.3	37.9	53.1	76.9	109.6	131.3	155.0	174.8	186.5	202.8	204.1
65°	13.3	40.5	57.4	90.9	126.4	155.5	186.2	205.0	233.2	249.3	252.7
62.5°	13.3	43.0	61.8	104.9	143.4	185.4	218.4	247.0	281.3	300.7	313.5
60°	13.3	45.5	66.2	118.8	160.6	215.8	251.5	294.4	331.1	365.7	378.2
57.5°	13.3	48.0	76.3	132.7	186.7	246.6	297.1	343.5	393.9	433.7	453.9
55°	13.3	50.5	86.4	146.6	213.3	278.0	345.0	396.1	461.6	507.7	538.5
52.5°	13.3	52.9	96.3	160.3	240.0	311.5	393.8	462.3	531.6	595.6	629.4
50°	13.3	55.3	106.0	174.0	266.8	354.3	443.5	531.5	608.1	688.1	743.7
47.5°	13.3	57.6	115.6	189.2	293.6	397.3	495.6	602.1	697.3	785.4	869.9
45°	13.3	59.9	124.9	209.5	320.4	440.4	558.0	674.2	793.8	910.9	1006.3
42.5°	13.3	62.1	134.0	229.4	347.1	483.7	620.9	755.8	893.5	1044.0	1189.8
40°	13.3	64.3	142.9	249.0	377.4	526.9	684.0	844.4	1002.0	1183.4	1393.7
37.5°	13.3	66.4	151.5	268.2	411.0	570.0	747.4	934.3	1123.3	1332.5	1612.0
35°	13.3	68.5	159.9	286.8	444.0	618.2	810.8	1025.2	1243.5	1506.2	1855.6
32.5°	13.3	70.5	167.9	304.6	476.3	668.6	877.4	1116.7	1362.3	1672.8	2070.1
30°	13.3	72.4	175.7	321.8	508.0	718.0	951.6	1210.2	1479.4	1832.1	2271.2
27.5°	13.3	74.3	183.1	338.2	536.7	766.4	1024.9	1307.8	1601.8	1983.8	2458.7
25°	13.3	76.0	190.1	353.7	564.0	813.6	1097.0	1402.8	1730.8	2138.6	2633.2
22.5°	13.3	77.7	196.8	368.5	589.8	857.2	1167.5	1494.8	1852.8	2288.0	2816.7
20°	13.3	79.2	203.0	382.3	614.0	893.5	1236.2	1583.6	1967.6	2425.7	2989.8
17.5°	13.3	80.7	208.9	395.2	636.7	927.0	1290.0	1668.8	2075.1	2551.7	3151.8
15°	13.3	82.1	214.3	407.1	657.6	957.7	1331.9	1740.4	2175.2	2666.1	3302.1
12.5°	13.3	83.3	219.2	418.0	676.8	985.5	1368.9	1796.3	2263.3	2769.2	3439.9
10°	13.3	84.4	223.7	427.8	694.1	1010.3	1401.0	1848.2	2342.5	2890.4	3580.4
7.5°	13.3	85.5	227.7	436.5	709.5	1032.2	1428.3	1895.5	2415.9	3010.3	3740.4
5°	13.3	86.3	231.1	444.1	722.9	1050.9	1450.7	1937.6	2482.6	3123.4	3886.7
2.5°	13.3	87.1	234.0	450.5	734.2	1066.5	1468.3	1973.8	2541.7	3227.5	4018.5
0°	13.3	87.7	236.4	455.6	743.4	1078.9	1481.1	2003.4	2592.4	3320.6	4134.6
-2.5°	13.3	89.4	240.0	462.5	755.6	1099.0	1516.7	2052.6	2655.6	3385.9	4208.0
-5°	13.3	91.0	243.1	468.1	765.4	1115.7	1547.2	2094.2	2709.1	3438.1	4264.7
-7.5°	13.3	92.4	245.6	472.3	772.8	1128.8	1571.9	2127.8	2752.2	3477.6	4304.3
-10°	13.3	93.7	247.4	475.2	777.8	1138.1	1590.6	2152.9	2784.6	3504.3	4326.8
-12.5°	13.3	94.8	248.7	476.7	780.2	1143.4	1602.7	2169.1	2806.0	3519.4	4344.5
-15°	13.3	95.7	249.4	476.7	779.9	1144.7	1607.9	2176.3	2813.3	3525.6	4348.7
-17.5°	13.3	96.5	249.4	475.3	776.9	1141.7	1605.8	2171.2	2805.2	3516.3	4332.6
-20°	13.3	97.1	248.8	472.4	771.2	1134.4	1596.9	2155.2	2784.6	3491.3	4295.6



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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°	13.3	97.5	247.6	468.0	762.7	1122.7	1582.9	2130.6	2751.4	3450.0	4237.4
-25°	13.3	97.8	245.8	462.1	751.3	1111.2	1562.6	2097.5	2705.3	3392.4	4157.8
-27.5°	13.3	97.8	243.4	454.7	737.0	1096.9	1536.2	2055.7	2646.2	3322.8	4079.7
-30°	13.3	97.7	240.3	445.7	720.4	1077.9	1503.6	2005.5	2584.0	3245.9	3983.1
-32.5°	13.3	97.4	236.7	435.3	705.3	1054.0	1464.8	1957.5	2517.5	3153.3	3867.1
-35°	13.3	97.0	232.4	423.3	687.1	1025.4	1428.7	1905.6	2441.3	3045.1	3731.9
-37.5°	13.3	96.3	227.5	409.8	665.8	994.7	1390.0	1846.5	2355.5	2921.4	3591.6
-40°	13.3	95.5	222.1	394.9	641.6	965.1	1345.1	1780.5	2260.3	2805.5	3443.9
-42.5°	13.3	94.5	216.0	379.5	619.1	931.5	1293.9	1707.6	2170.0	2690.7	3282.2
-45°	13.3	93.3	209.4	364.2	598.8	893.8	1236.7	1633.1	2078.5	2562.1	3111.1
-47.5°	13.3	92.0	202.3	347.4	576.2	852.2	1173.5	1558.5	1979.4	2420.1	2949.8
-50°	13.3	90.4	194.6	335.5	551.2	806.8	1116.2	1476.5	1868.5	2292.8	2772.3
-52.5°	13.3	88.8	186.3	324.5	523.9	757.6	1055.8	1387.4	1756.3	2154.3	2583.1
-55°	13.3	86.9	177.6	312.2	494.4	717.2	990.8	1293.5	1639.2	2005.2	2412.8
-57.5°	13.3	84.9	168.3	298.7	462.8	676.1	921.3	1209.8	1514.4	1857.4	2230.6
-60°	13.3	82.7	158.7	284.2	429.9	632.2	849.6	1118.3	1386.9	1704.0	2042.9
-62.5°	13.3	80.4	153.7	268.5	407.0	585.6	791.2	1020.8	1271.4	1542.4	1857.4
-65°	13.3	77.9	148.3	251.8	382.6	536.5	729.4	925.7	1150.1	1395.2	1662.9
-67.5°	13.3	75.3	142.7	234.2	356.6	493.1	664.5	844.0	1023.6	1247.4	1483.1
-70°	13.3	72.6	136.7	215.6	329.2	455.6	596.8	759.1	922.2	1093.9	1306.0
-72.5°	13.3	69.7	130.4	204.1	300.6	416.2	542.9	671.4	818.1	971.6	1131.6
-75°	13.3	66.7	123.9	193.9	270.7	375.2	489.3	597.5	710.9	846.5	987.8
-77.5°	13.3	63.6	117.1	183.2	252.6	332.7	433.7	527.3	624.0	725.9	840.2
-80°	13.3	60.4	110.1	172.0	236.7	303.6	376.3	455.4	537.4	623.6	713.7
-82.5°	13.3	57.1	102.9	160.5	220.1	281.5	344.5	395.1	449.1	519.3	592.4
-85°	13.3	53.7	95.4	148.6	203.1	258.7	315.5	359.8	404.3	449.2	494.6
-87.5°	13.3	50.2	87.8	136.4	185.6	235.4	285.7	323.8	362.0	400.5	439.2
-90°	13.3	14.3	15.2	15.2	15.2	15.2	15.2	14.7	14.3	13.8	13.3



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	411.2	439.4	467.5	495.6	523.3	550.9	578.6	606.2	631.9	657.7	683.4
87.5°	22.8	23.3	23.8	24.3	23.3	22.2	20.9	19.6	21.1	22.9	24.7
85°	32.3	33.3	36.1	38.3	39.8	41.8	44.3	47.3	52.9	58.5	64.0
82.5°	53.7	57.2	59.8	61.4	66.7	73.3	80.3	86.9	93.2	99.2	104.9
80°	77.6	81.3	82.0	82.9	89.9	98.6	107.7	117.2	124.9	131.9	138.5
77.5°	95.0	97.1	99.6	102.4	111.5	124.0	136.6	149.2	158.6	166.1	172.8
75°	108.7	112.6	121.7	127.4	137.5	152.1	166.9	181.0	190.3	195.5	198.9
72.5°	131.0	144.1	152.2	155.3	165.2	182.4	197.9	211.7	218.9	217.8	213.4
70°	165.3	177.5	188.1	192.0	196.3	213.1	225.7	235.5	239.9	231.3	214.2
67.5°	202.3	221.1	230.8	231.3	225.3	239.8	251.1	249.7	242.2	223.3	200.8
65°	249.8	267.8	276.4	272.9	256.6	259.9	259.2	252.4	235.0	209.1	182.1
62.5°	303.2	319.2	326.0	316.9	287.3	274.6	267.3	250.0	223.4	198.0	172.5
60°	370.9	374.5	378.8	362.6	325.3	290.2	276.5	259.1	230.7	195.8	174.9
57.5°	446.9	434.6	436.7	418.5	375.6	312.9	306.8	284.6	260.6	214.7	193.2
55°	534.5	501.0	506.3	489.7	450.4	380.3	356.5	353.3	319.7	283.5	243.8
52.5°	639.6	594.1	593.0	590.4	569.1	508.7	454.2	492.1	513.3	473.0	498.7
50°	757.8	735.0	700.9	740.6	753.2	721.2	673.3	779.2	906.7	965.1	963.6
47.5°	914.6	901.2	871.6	943.6	1033.4	1115.7	1135.6	1326.8	1520.0	1733.6	1758.9
45°	1099.3	1133.3	1116.5	1269.1	1461.6	1683.1	1847.6	2033.1	2472.8	2727.9	3105.8
42.5°	1304.3	1403.4	1493.7	1637.9	2091.9	2373.8	2621.8	3087.6	3525.0	3894.8	4285.2
40°	1568.2	1698.6	1895.7	2288.1	2777.5	3103.8	3530.9	4061.6	4504.6	4922.1	5321.8
37.5°	1854.4	2072.1	2339.1	2901.6	3458.5	3867.2	4390.2	4916.6	5420.1	5888.6	6447.5
35°	2156.8	2446.8	2867.4	3455.0	4039.5	4608.7	5184.4	5770.7	6345.3	6987.3	7615.8
32.5°	2486.1	2822.0	3352.9	3976.9	4631.0	5292.4	5961.2	6645.6	7376.1	8124.6	8791.4
30°	2783.1	3240.1	3805.0	4481.8	5220.0	5979.7	6760.1	7547.8	8444.6	9330.7	10130.5
27.5°	3010.0	3622.9	4253.8	5001.9	5810.7	6657.9	7562.1	8538.1	9582.3	10598.0	11547.5
25°	3227.7	3917.5	4684.3	5521.8	6420.3	7372.9	8384.3	9477.0	10758.3	11948.4	13132.8
22.5°	3455.8	4214.3	5041.6	6028.4	7013.8	8097.8	9220.1	10477.6	11893.6	13300.5	14739.8
20°	3698.4	4521.5	5394.5	6435.1	7569.0	8812.0	10006.7	11470.3	13045.5	14680.4	16436.0
17.5°	3934.9	4803.8	5736.4	6833.2	8062.2	9454.4	10765.1	12431.2	14176.7	16046.6	18032.4
15°	4162.8	5061.1	6048.3	7199.3	8539.3	10017.3	11550.1	13375.8	15327.9	17392.3	19477.6
12.5°	4379.4	5293.4	6329.5	7531.7	8984.8	10564.3	12252.8	14172.8	16311.0	18592.8	20865.9
10°	4582.0	5500.7	6579.3	7828.6	9393.4	11085.8	12878.2	14885.3	17108.4	19459.5	21994.7
7.5°	4735.5	5672.9	6799.6	8088.5	9759.7	11571.8	13425.5	15509.6	17782.4	20231.1	22956.5
5°	4853.1	5812.8	7003.4	8388.6	10111.6	11974.0	13875.7	16041.9	18334.8	20895.0	23786.8
2.5°	4942.4	5931.0	7177.9	8667.4	10426.7	12247.9	14169.4	16391.3	18831.9	21515.0	24461.6
0°	5007.6	6025.5	7319.8	8905.8	10682.4	12449.5	14386.2	16645.0	19235.6	22039.6	24959.9
-2.5°	5118.3	6193.1	7518.3	9094.7	10842.0	12646.8	14665.5	16998.3	19618.5	22370.5	25389.6
-5°	5206.9	6330.9	7678.7	9236.9	10945.9	12776.0	14857.9	17244.0	19869.2	22593.5	25611.4
-7.5°	5271.1	6435.2	7799.1	9331.2	11015.3	12880.4	14992.4	17366.3	19963.1	22726.5	25646.1
-10°	5309.1	6484.6	7837.0	9359.1	11052.8	12936.7	15044.0	17384.2	19935.0	22695.2	25551.1
-12.5°	5323.4	6483.5	7825.3	9336.3	11024.0	12909.9	15003.1	17299.3	19788.0	22493.6	25308.9
-15°	5313.9	6450.2	7770.9	9262.2	10927.0	12796.8	14868.9	17113.8	19515.2	22082.7	24818.8
-17.5°	5280.6	6384.7	7673.1	9136.4	10760.0	12595.0	14629.6	16770.8	19123.2	21608.4	24196.1
-20°	5223.6	6286.9	7531.5	8958.8	10532.2	12330.0	14291.5	16364.3	18624.0	21042.3	23498.5



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	5142.8	6156.9	7366.1	8758.6	10313.5	12028.8	13887.8	15875.2	17987.9	20366.8	22707.6
-25°	5050.0	6042.1	7193.0	8540.6	10037.2	11676.0	13415.2	15315.5	17309.4	19535.9	21801.7
-27.5°	4944.1	5902.6	7008.7	8279.3	9698.1	11283.9	12946.7	14730.5	16618.6	18620.5	20793.0
-30°	4813.3	5744.1	6787.9	7993.1	9354.6	10857.1	12456.0	14068.5	15856.9	17744.4	19735.7
-32.5°	4658.1	5552.6	6567.6	7715.5	8980.7	10363.1	11883.3	13416.6	15066.7	16813.6	18659.1
-35°	4492.1	5358.2	6322.1	7399.1	8570.5	9866.0	11254.4	12713.0	14230.5	15872.0	17495.5
-37.5°	4325.0	5135.9	6035.4	7064.2	8186.2	9337.2	10585.9	11973.5	13395.6	14846.9	16337.8
-40°	4137.0	4886.2	5750.1	6709.3	7725.3	8793.3	9963.4	11201.9	12524.1	13833.3	15169.7
-42.5°	3932.2	4655.9	5447.9	6303.7	7254.6	8248.4	9298.2	10457.3	11609.7	12798.8	14032.6
-45°	3737.9	4404.2	5126.2	5921.7	6762.1	7681.2	8661.0	9674.1	10711.5	11762.3	12885.6
-47.5°	3529.0	4142.9	4822.9	5512.5	6284.6	7116.5	7997.6	8909.2	9807.7	10771.3	11731.3
-50°	3311.5	3897.6	4483.5	5124.4	5810.3	6556.7	7356.0	8142.0	8963.7	9798.0	10663.5
-52.5°	3093.3	3637.7	4168.5	4729.5	5349.9	6012.8	6709.1	7411.4	8141.6	8876.0	9617.8
-55°	2857.8	3362.9	3844.5	4351.2	4895.2	5489.2	6078.8	6710.6	7343.4	8015.5	8624.9
-57.5°	2634.9	3065.7	3511.5	3974.5	4461.4	4967.0	5490.5	6019.2	6595.1	7174.7	7696.8
-60°	2415.3	2779.8	3169.1	3592.4	4028.2	4476.0	4909.9	5381.7	5869.0	6343.6	6821.4
-62.5°	2187.5	2510.2	2843.0	3202.2	3598.8	3984.6	4376.2	4773.8	5170.7	5591.8	5995.8
-65°	1962.7	2238.0	2533.1	2844.3	3163.1	3511.7	3856.0	4191.8	4546.4	4891.0	5225.6
-67.5°	1727.9	1980.0	2232.7	2492.0	2777.1	3061.7	3348.1	3656.6	3956.0	4237.6	4521.4
-70°	1518.1	1721.0	1944.7	2173.6	2400.4	2633.8	2888.2	3143.1	3393.4	3633.4	3878.9
-72.5°	1309.7	1491.6	1674.4	1857.7	2054.9	2251.5	2450.1	2650.1	2859.3	3068.7	3272.3
-75°	1123.8	1260.3	1419.1	1580.8	1734.8	1885.1	2038.8	2208.8	2376.1	2540.3	2703.1
-77.5°	954.4	1069.6	1188.7	1311.3	1428.5	1554.5	1681.0	1807.7	1932.5	2054.7	2174.3
-80°	795.1	875.9	971.8	1071.2	1164.2	1256.0	1347.8	1439.4	1531.8	1628.5	1728.3
-82.5°	658.2	724.0	790.7	858.0	919.8	980.3	1042.8	1114.3	1187.4	1260.0	1331.7
-85°	532.9	570.7	621.8	673.6	723.0	771.7	819.8	867.1	915.8	963.7	1010.9
-87.5°	472.4	505.3	538.1	570.7	602.1	633.3	664.2	694.8	726.1	757.4	788.6
-90°	13.3	13.3	13.3	13.3	12.8	12.4	11.9	11.4	10.9	10.5	10.0



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	709.1	717.2	725.3	733.4	741.5	760.6	779.7	798.7	817.8	822.1	826.4
87.5°	26.7	26.7	26.7	26.7	26.6	30.9	35.3	39.8	44.3	43.8	43.2
85°	69.3	70.3	70.8	70.8	70.5	76.4	82.3	88.0	93.6	89.8	85.5
82.5°	110.4	112.4	114.3	116.3	118.4	124.5	130.5	136.2	141.5	143.3	144.9
80°	144.5	148.3	151.1	153.3	154.9	160.1	165.7	171.0	176.1	181.4	186.8
77.5°	177.6	178.8	178.2	176.4	173.6	174.4	175.6	176.2	176.4	179.1	182.3
75°	200.6	197.9	190.1	181.0	170.9	164.7	160.1	155.3	150.3	149.5	149.8
72.5°	205.6	195.2	182.3	166.3	150.4	139.5	132.1	124.9	118.2	114.8	112.8
70°	194.7	174.7	157.3	140.1	123.4	111.0	103.6	96.8	90.7	86.7	83.9
67.5°	175.3	150.6	132.3	114.6	98.3	85.5	79.0	73.1	67.7	63.7	60.8
65°	155.6	129.3	111.7	94.8	78.3	65.6	60.6	55.7	50.9	47.4	45.4
62.5°	144.8	117.2	98.9	84.1	69.1	54.5	49.3	44.3	39.3	35.4	33.7
60°	148.6	117.3	95.1	81.3	65.9	48.9	42.5	37.9	32.9	28.3	26.6
57.5°	171.8	137.7	104.6	99.1	83.5	58.5	60.9	70.9	63.4	43.8	41.5
55°	262.9	254.4	166.5	215.5	250.7	236.2	220.6	292.0	326.8	328.6	360.9
52.5°	522.5	584.2	561.2	587.9	732.9	791.6	783.9	911.6	977.8	968.8	1003.3
50°	1100.2	1226.4	1381.9	1406.9	1650.1	1818.7	1859.4	2007.2	2171.4	2234.3	2304.9
47.5°	2147.2	2443.0	2593.1	2762.3	3042.2	3348.9	3586.5	3799.3	4029.9	4187.5	4377.8
45°	3497.6	3706.6	3967.8	4360.9	4788.2	5188.4	5564.3	5906.9	6132.8	6334.3	6548.1
42.5°	4608.6	4942.4	5380.6	5967.0	6574.8	6985.6	7294.8	7625.0	7978.0	8313.5	8622.9
40°	5746.2	6133.1	6828.2	7492.7	7946.2	8342.7	8766.0	9214.1	9675.5	10115.7	10553.5
37.5°	6965.4	7537.2	8145.9	8726.7	9206.5	9581.6	10161.7	10658.0	11120.5	11776.0	12377.2
35°	8262.7	8884.2	9407.1	10071.4	10608.0	11070.6	11677.6	12302.7	12702.9	13602.1	14380.6
32.5°	9553.4	10277.7	10975.0	11605.8	12271.6	12984.9	13575.7	14433.1	15085.4	15945.5	16791.0
30°	10898.3	11891.2	12761.6	13453.9	14360.9	15283.0	16111.9	17121.5	18083.1	18883.6	19779.7
27.5°	12595.3	13699.3	14760.8	15827.6	16796.5	17948.0	19267.5	20335.5	21566.4	22439.2	23376.4
25°	14395.8	15710.9	17122.7	18497.9	19769.0	21258.6	22754.6	24059.5	25335.3	26340.9	27342.5
22.5°	16353.7	17944.0	19624.2	21355.4	23073.7	24705.8	26311.6	27926.4	29397.0	30779.2	31742.1
20°	18342.0	20108.0	22148.5	24234.3	26212.9	28055.1	29984.6	32026.7	33895.3	35497.2	36683.4
17.5°	20135.7	22350.8	24595.1	26883.5	29115.0	31391.7	33785.7	36187.5	38400.0	40276.0	41850.9
15°	21751.5	24261.3	26859.4	29441.4	32007.5	34628.7	37426.2	40014.0	42493.8	44645.3	46486.5
12.5°	23344.9	26025.6	28810.7	31705.6	34747.8	37586.0	40434.1	43224.5	45823.3	48324.2	50168.8
10°	24755.2	27649.7	30631.3	33733.5	36884.4	39963.5	42965.6	45874.3	48427.7	50789.2	53020.8
7.5°	25904.3	29008.5	32190.8	35453.7	38696.5	41814.4	44872.0	47778.8	50370.5	52790.5	55072.5
5°	26895.3	30187.8	33472.1	36723.7	39986.6	43220.5	46307.5	49173.6	51873.2	54388.0	56675.0
2.5°	27704.1	31137.2	34464.9	37667.4	40917.2	44227.5	47392.4	50161.4	52983.2	55541.0	57792.0
0°	28311.0	31776.5	34998.0	38229.1	41519.2	44866.5	48049.9	50762.4	53635.0	56368.6	58509.2
-2.5°	28643.0	31905.0	35111.5	38353.2	41742.5	45185.7	48364.7	51288.4	54144.5	56706.9	58697.1
-5°	28758.3	31967.2	35162.2	38462.3	41822.2	45211.4	48379.5	51310.9	54053.7	56450.4	58265.6
-7.5°	28680.9	31858.3	35021.3	38289.0	41627.6	44976.2	48093.4	50897.4	53538.8	55808.9	57541.0
-10°	28447.2	31524.2	34688.3	37902.3	41248.0	44554.1	47608.9	50138.6	52660.5	54790.3	56428.0
-12.5°	28061.2	31007.2	34127.7	37270.5	40553.0	43730.9	46577.6	49096.4	51349.9	53507.1	54940.6
-15°	27513.3	30353.7	33337.1	36414.6	39524.5	42598.8	45374.5	47809.0	49896.6	51598.3	53108.0
-17.5°	26826.2	29566.8	32425.7	35374.7	38262.5	41187.4	43759.7	46199.4	48207.5	49722.4	50893.9
-20°	25980.5	28640.1	31374.1	34189.6	36872.8	39360.3	41840.0	44108.7	46093.6	47574.9	48700.8



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	25087.8	27597.0	30187.1	32725.8	35169.3	37507.8	39753.6	41835.7	43723.1	45123.7	46201.1
-25°	24072.0	26418.7	28813.6	31106.3	33337.9	35515.1	37550.7	39480.0	41127.7	42490.1	43490.4
-27.5°	22959.6	25144.6	27306.1	29438.5	31509.0	33391.1	35264.1	37005.7	38454.7	39707.7	40593.5
-30°	21744.0	23742.3	25768.0	27766.9	29558.0	31253.4	32917.5	34429.3	35757.4	36857.6	37652.2
-32.5°	20461.9	22287.5	24166.5	25973.9	27544.6	29074.3	30525.3	31850.5	33068.4	34040.5	34757.1
-35°	19136.4	20827.8	22515.2	24077.9	25541.9	26902.6	28152.9	29327.5	30336.4	31222.6	31925.0
-37.5°	17832.7	19356.1	20820.5	22185.0	23537.7	24785.6	25877.7	26908.4	27825.6	28564.7	29180.5
-40°	16554.0	17902.5	19149.3	20363.8	21572.5	22628.9	23620.6	24509.4	25321.2	26027.3	26574.4
-42.5°	15282.9	16444.2	17520.3	18613.3	19658.3	20574.4	21437.9	22208.1	22912.5	23545.2	24075.7
-45°	14007.2	15000.4	15958.1	16919.2	17786.9	18602.8	19353.3	20029.9	20659.3	21192.1	21627.1
-47.5°	12704.3	13585.4	14455.4	15288.1	16008.0	16713.0	17359.2	17966.9	18534.0	19013.2	19397.5
-50°	11460.2	12239.0	13018.0	13706.4	14311.7	14898.7	15445.6	16032.4	16557.3	16993.8	17311.4
-52.5°	10292.3	10996.4	11666.0	12229.8	12741.4	13199.9	13620.0	14165.1	14659.2	15087.9	15369.5
-55°	9228.6	9831.2	10405.3	10871.0	11298.3	11680.6	12061.9	12500.0	12898.9	13255.6	13491.0
-57.5°	8227.3	8738.2	9215.8	9607.9	9964.3	10283.9	10637.9	11004.2	11331.3	11612.9	11802.4
-60°	7278.1	7712.9	8109.1	8431.7	8727.8	8996.9	9333.8	9653.5	9936.2	10165.8	10307.3
-62.5°	6382.7	6772.6	7080.7	7340.1	7576.6	7803.3	8097.7	8373.9	8628.9	8832.6	8951.1
-65°	5562.8	5904.3	6133.2	6338.5	6525.0	6729.2	6979.6	7204.2	7403.3	7554.6	7657.7
-67.5°	4815.4	5085.6	5266.1	5429.2	5589.0	5763.7	5976.2	6172.3	6351.6	6476.2	6553.2
-70°	4119.2	4327.4	4473.8	4612.5	4745.9	4895.7	5069.8	5231.9	5381.5	5478.2	5539.7
-72.5°	3469.6	3628.4	3749.3	3868.7	3976.3	4104.8	4246.7	4379.6	4503.1	4575.8	4622.5
-75°	2863.7	2985.4	3084.4	3176.0	3260.1	3368.2	3483.1	3591.1	3691.5	3747.0	3782.9
-77.5°	2301.7	2394.9	2469.5	2537.7	2599.6	2685.3	2773.8	2856.9	2934.4	2983.9	3023.6
-80°	1825.9	1882.2	1928.0	1970.7	2010.1	2074.1	2139.0	2200.2	2257.5	2289.7	2315.3
-82.5°	1402.5	1436.7	1464.0	1487.9	1508.4	1553.1	1597.6	1639.7	1679.4	1700.3	1718.0
-85°	1057.2	1075.6	1091.1	1104.8	1116.9	1148.0	1178.7	1208.3	1236.8	1242.8	1247.1
-87.5°	819.7	829.7	839.2	848.3	857.2	880.1	903.1	925.8	948.4	952.3	955.8
-90°	9.5	9.0	8.6	8.1	7.6	7.1	6.7	6.2	5.7	5.2	4.8



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	830.6	834.9	832.1	829.2	832.1	834.9	830.6	826.4	822.1	817.8	798.7
87.5°	42.5	41.8	41.9	41.9	41.9	41.8	42.5	43.2	43.8	44.3	39.8
85°	80.8	76.0	72.4	68.6	72.4	76.0	80.8	85.5	89.8	93.6	88.0
82.5°	146.5	147.9	147.5	146.8	147.5	147.9	146.5	144.9	143.3	141.5	136.2
80°	192.2	197.3	199.0	200.2	199.0	197.3	192.2	186.8	181.4	176.1	171.0
77.5°	185.5	188.7	189.7	190.6	189.7	188.7	185.5	182.3	179.1	176.4	176.2
75°	150.4	151.4	150.8	150.6	150.8	151.4	150.4	149.8	149.5	150.3	155.3
72.5°	111.2	109.8	109.0	108.7	109.0	109.8	111.2	112.8	114.8	118.2	124.9
70°	81.4	79.3	77.5	76.2	77.5	79.3	81.4	83.9	86.7	90.7	96.8
67.5°	58.3	56.3	54.6	53.4	54.6	56.3	58.3	60.8	63.7	67.7	73.1
65°	43.8	42.5	41.2	40.0	41.2	42.5	43.8	45.4	47.4	50.9	55.7
62.5°	32.3	31.1	30.6	30.5	30.6	31.1	32.3	33.7	35.4	39.3	44.3
60°	25.1	23.6	23.0	22.9	23.0	23.6	25.1	26.6	28.3	32.9	37.9
57.5°	37.5	32.1	28.9	26.7	28.9	32.1	37.5	41.5	43.8	63.4	70.9
55°	378.1	379.2	386.7	394.6	386.7	379.2	378.1	360.9	328.6	326.8	292.0
52.5°	1029.7	1026.4	1017.1	998.9	1017.1	1026.4	1029.7	1003.3	968.8	977.8	911.6
50°	2347.4	2314.2	2242.4	2140.7	2242.4	2314.2	2347.4	2304.9	2234.3	2171.4	2007.2
47.5°	4634.1	4825.8	4958.4	5017.1	4958.4	4825.8	4634.1	4377.8	4187.5	4029.9	3799.3
45°	6770.8	6884.5	6950.8	7003.4	6950.8	6884.5	6770.8	6548.1	6334.3	6132.8	5906.9
42.5°	8886.3	9066.5	9155.3	9140.3	9155.3	9066.5	8886.3	8622.9	8313.5	7978.0	7625.0
40°	10974.1	11351.4	11661.0	11883.3	11661.0	11351.4	10974.1	10553.5	10115.7	9675.5	9214.1
37.5°	12971.9	13533.6	14008.1	14351.9	14008.1	13533.6	12971.9	12377.2	11776.0	11120.5	10658.0
35°	15017.4	15512.8	15837.9	15979.8	15837.9	15512.8	15017.4	14380.6	13602.1	12702.9	12302.7
32.5°	17330.2	17605.4	17663.8	17811.6	17663.8	17605.4	17330.2	16791.0	15945.5	15085.4	14433.1
30°	20325.4	20611.5	20618.4	20804.4	20618.4	20611.5	20325.4	19779.7	18883.6	18083.1	17121.5
27.5°	24115.3	24597.1	24753.5	24918.0	24753.5	24597.1	24115.3	23376.4	22439.2	21566.4	20335.5
25°	28173.5	28622.7	28766.5	28711.3	28766.5	28622.7	28173.5	27342.5	26340.9	25335.3	24059.5
22.5°	32728.6	33310.8	33522.7	33415.9	33522.7	33310.8	32728.6	31742.1	30779.2	29397.0	27926.4
20°	37826.7	38667.2	39111.4	39311.8	39111.4	38667.2	37826.7	36683.4	35497.2	33895.3	32026.7
17.5°	43192.8	44431.3	45000.0	45167.7	45000.0	44431.3	43192.8	41850.9	40276.0	38400.0	36187.5
15°	48074.5	49155.9	49893.5	50272.5	49893.5	49155.9	48074.5	46486.5	44645.3	42493.8	40014.0
12.5°	51849.2	53227.5	54376.2	54992.3	54376.2	53227.5	51849.2	50168.8	48324.2	45823.3	43224.5
10°	54926.1	56317.7	57362.3	57868.7	57362.3	56317.7	54926.1	53020.8	50789.2	48427.7	45874.3
7.5°	57054.9	58348.2	59159.2	59490.9	59159.2	58348.2	57054.9	55072.5	52790.5	50370.5	47778.8
5°	58430.9	59667.5	60266.9	60482.2	60266.9	59667.5	58430.9	56675.0	54388.0	51873.2	49173.6
2.5°	59421.6	60400.0	60880.1	60911.1	60880.1	60400.0	59421.6	57792.0	55541.0	52983.2	50161.4
0°	59874.1	60754.7	61280.9	61271.3	61280.9	60754.7	59874.1	58509.2	56368.6	53635.0	50762.4
-2.5°	59896.0	60662.2	61036.1	60825.3	61036.1	60662.2	59896.0	58697.1	56706.9	54144.5	51288.4
-5°	59468.8	60218.7	60498.9	60434.5	60498.9	60218.7	59468.8	58265.6	56450.4	54053.7	51310.9
-7.5°	58701.9	59367.2	59653.2	59662.5	59653.2	59367.2	58701.9	57541.0	55808.9	53538.8	50897.4
-10°	57532.3	58088.2	58415.9	58322.4	58415.9	58088.2	57532.3	56428.0	54790.3	52660.5	50138.6
-12.5°	55985.1	56533.9	56811.7	56755.5	56811.7	56533.9	55985.1	54940.6	53507.1	51349.9	49096.4
-15°	54134.4	54656.0	54916.3	54891.2	54916.3	54656.0	54134.4	53108.0	51598.3	49896.6	47809.0
-17.5°	51843.1	52365.9	52632.3	52668.6	52632.3	52365.9	51843.1	50893.9	49722.4	48207.5	46199.4
-20°	49441.8	49902.9	50147.0	50150.5	50147.0	49902.9	49441.8	48700.8	47574.9	46093.6	44108.7



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	46952.6	47470.4	47760.1	47716.3	47760.1	47470.4	46952.6	46201.1	45123.7	43723.1	41835.7
-25°	44178.2	44697.0	44978.7	44967.5	44978.7	44697.0	44178.2	43490.4	42490.1	41127.7	39480.0
-27.5°	41216.3	41715.0	41986.8	42020.5	41986.8	41715.0	41216.3	40593.5	39707.7	38454.7	37005.7
-30°	38232.8	38724.5	38990.7	39012.5	38990.7	38724.5	38232.8	37652.2	36857.6	35757.4	34429.3
-32.5°	35309.3	35753.2	35999.2	36025.5	35999.2	35753.2	35309.3	34757.1	34040.5	33068.4	31850.5
-35°	32457.1	32847.1	33067.9	33139.5	33067.9	32847.1	32457.1	31925.0	31222.6	30336.4	29327.5
-37.5°	29681.2	30033.8	30247.0	30377.4	30247.0	30033.8	29681.2	29180.5	28564.7	27825.6	26908.4
-40°	26999.9	27308.8	27478.8	27481.8	27478.8	27308.8	26999.9	26574.4	26027.3	25321.2	24509.4
-42.5°	24468.7	24728.8	24858.7	24860.8	24858.7	24728.8	24468.7	24075.7	23545.2	22912.5	22208.1
-45°	21977.4	22231.8	22411.9	22525.7	22411.9	22231.8	21977.4	21627.1	21192.1	20659.3	20029.9
-47.5°	19690.6	19899.2	20042.2	20120.1	20042.2	19899.2	19690.6	19397.5	19013.2	18534.0	17966.9
-50°	17544.1	17710.9	17832.8	17905.0	17832.8	17710.9	17544.1	17311.4	16993.8	16557.3	16032.4
-52.5°	15560.5	15682.3	15726.0	15697.6	15726.0	15682.3	15560.5	15369.5	15087.9	14659.2	14165.1
-55°	13667.4	13788.7	13837.2	13820.0	13837.2	13788.7	13667.4	13491.0	13255.6	12898.9	12500.0
-57.5°	11951.5	12059.1	12145.1	12197.8	12145.1	12059.1	11951.5	11802.4	11612.9	11331.3	11004.2
-60°	10418.7	10498.3	10552.4	10573.8	10552.4	10498.3	10418.7	10307.3	10165.8	9936.2	9653.5
-62.5°	9034.3	9083.8	9122.2	9138.4	9122.2	9083.8	9034.3	8951.1	8832.6	8628.9	8373.9
-65°	7739.9	7800.3	7793.0	7750.7	7793.0	7800.3	7739.9	7657.7	7554.6	7403.3	7204.2
-67.5°	6611.3	6650.6	6684.4	6702.2	6684.4	6650.6	6611.3	6553.2	6476.2	6351.6	6172.3
-70°	5586.6	5618.8	5630.8	5627.1	5630.8	5618.8	5586.6	5539.7	5478.2	5381.5	5231.9
-72.5°	4657.8	4681.3	4685.9	4677.8	4685.9	4681.3	4657.8	4622.5	4575.8	4503.1	4379.6
-75°	3808.4	3824.1	3832.0	3831.5	3832.0	3824.1	3808.4	3782.9	3747.0	3691.5	3591.1
-77.5°	3056.6	3083.0	3071.7	3051.8	3071.7	3083.0	3056.6	3023.6	2983.9	2934.4	2856.9
-80°	2336.2	2352.3	2343.5	2329.4	2343.5	2352.3	2336.2	2315.3	2289.7	2257.5	2200.2
-82.5°	1733.3	1746.0	1731.5	1713.7	1731.5	1746.0	1733.3	1718.0	1700.3	1679.4	1639.7
-85°	1250.2	1252.1	1250.9	1248.6	1250.9	1252.1	1250.2	1247.1	1242.8	1236.8	1208.3
-87.5°	959.1	962.1	959.6	956.9	959.6	962.1	959.1	955.8	952.3	948.4	925.8
-90°	4.3	3.8	4.8	5.7	4.8	3.8	4.3	4.8	5.2	5.7	6.2



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	779.7	760.6	741.5	733.4	725.3	717.2	709.1	683.4	657.7	631.9	606.2
87.5°	35.3	30.9	26.6	26.7	26.7	26.7	26.7	24.7	22.9	21.1	19.6
85°	82.3	76.4	70.5	70.8	70.8	70.3	69.3	64.0	58.5	52.9	47.3
82.5°	130.5	124.5	118.4	116.3	114.3	112.4	110.4	104.9	99.2	93.2	86.9
80°	165.7	160.1	154.9	153.3	151.1	148.3	144.5	138.5	131.9	124.9	117.2
77.5°	175.6	174.4	173.6	176.4	178.2	178.8	177.6	172.8	166.1	158.6	149.2
75°	160.1	164.7	170.9	181.0	190.1	197.9	200.6	198.9	195.5	190.3	181.0
72.5°	132.1	139.5	150.4	166.3	182.3	195.2	205.6	213.4	217.8	218.9	211.7
70°	103.6	111.0	123.4	140.1	157.3	174.7	194.7	214.2	231.3	239.9	235.5
67.5°	79.0	85.5	98.3	114.6	132.3	150.6	175.3	200.8	223.3	242.2	249.7
65°	60.6	65.6	78.3	94.8	111.7	129.3	155.6	182.1	209.1	235.0	252.4
62.5°	49.3	54.5	69.1	84.1	98.9	117.2	144.8	172.5	198.0	223.4	250.0
60°	42.5	48.9	65.9	81.3	95.1	117.3	148.6	174.9	195.8	230.7	259.1
57.5°	60.9	58.5	83.5	99.1	104.6	137.7	171.8	193.2	214.7	260.6	284.6
55°	220.6	236.2	250.7	215.5	166.5	254.4	262.9	243.8	283.5	319.7	353.3
52.5°	783.9	791.6	732.9	587.9	561.2	584.2	522.5	498.7	473.0	513.3	492.1
50°	1859.4	1818.7	1650.1	1406.9	1381.9	1226.4	1100.2	963.6	965.1	906.7	779.2
47.5°	3586.5	3348.9	3042.2	2762.3	2593.1	2443.0	2147.2	1758.9	1733.6	1520.0	1326.8
45°	5564.3	5188.4	4788.2	4360.9	3967.8	3706.6	3497.6	3105.8	2727.9	2472.8	2033.1
42.5°	7294.8	6985.6	6574.8	5967.0	5380.6	4942.4	4608.6	4285.2	3894.8	3525.0	3087.6
40°	8766.0	8342.7	7946.2	7492.7	6828.2	6133.1	5746.2	5321.8	4922.1	4504.6	4061.6
37.5°	10161.7	9581.6	9206.5	8726.7	8145.9	7537.2	6965.4	6447.5	5888.6	5420.1	4916.6
35°	11677.6	11070.6	10608.0	10071.4	9407.1	8884.2	8262.7	7615.8	6987.3	6345.3	5770.7
32.5°	13575.7	12984.9	12271.6	11605.8	10975.0	10277.7	9553.4	8791.4	8124.6	7376.1	6645.6
30°	16111.9	15283.0	14360.9	13453.9	12761.6	11891.2	10898.3	10130.5	9330.7	8444.6	7547.8
27.5°	19267.5	17948.0	16796.5	15827.6	14760.8	13699.3	12595.3	11547.5	10598.0	9582.3	8538.1
25°	22754.6	21258.6	19769.0	18497.9	17122.7	15710.9	14395.8	13132.8	11948.4	10758.3	9477.0
22.5°	26311.6	24705.8	23073.7	21355.4	19624.2	17944.0	16353.7	14739.8	13300.5	11893.6	10477.6
20°	29984.6	28055.1	26212.9	24234.3	22148.5	20108.0	18342.0	16436.0	14680.4	13045.5	11470.3
17.5°	33785.7	31391.7	29115.0	26883.5	24595.1	22350.8	20135.7	18032.4	16046.6	14176.7	12431.2
15°	37426.2	34628.7	32007.5	29441.4	26859.4	24261.3	21751.5	19477.6	17392.3	15327.9	13375.8
12.5°	40434.1	37586.0	34747.8	31705.6	28810.7	26025.6	23344.9	20865.9	18592.8	16311.0	14172.8
10°	42965.6	39963.5	36884.4	33733.5	30631.3	27649.7	24755.2	21994.7	19459.5	17108.4	14885.3
7.5°	44872.0	41814.4	38696.5	35453.7	32190.8	29008.5	25904.3	22956.5	20231.1	17782.4	15509.6
5°	46307.5	43220.5	39986.6	36723.7	33472.1	30187.8	26895.3	23786.8	20895.0	18334.8	16041.9
2.5°	47392.4	44227.5	40917.2	37667.4	34464.9	31137.2	27704.1	24461.6	21515.0	18831.9	16391.3
0°	48049.9	44866.5	41519.2	38229.1	34998.0	31776.5	28311.0	24959.9	22039.6	19235.6	16645.0
-2.5°	48364.7	45185.7	41742.5	38353.2	35111.5	31905.0	28643.0	25389.6	22370.5	19618.5	16998.3
-5°	48379.5	45211.4	41822.2	38462.3	35162.2	31967.2	28758.3	25611.4	22593.5	19869.2	17244.0
-7.5°	48093.4	44976.2	41627.6	38289.0	35021.3	31858.3	28680.9	25646.1	22726.5	19963.1	17366.3
-10°	47608.9	44554.1	41248.0	37902.3	34688.3	31524.2	28447.2	25551.1	22695.2	19935.0	17384.2
-12.5°	46577.6	43730.9	40553.0	37270.5	34127.7	31007.2	28061.2	25308.9	22493.6	19788.0	17299.3
-15°	45374.5	42598.8	39524.5	36414.6	33337.1	30353.7	27513.3	24818.8	22082.7	19515.2	17113.8
-17.5°	43759.7	41187.4	38262.5	35374.7	32425.7	29566.8	26826.2	24196.1	21608.4	19123.2	16770.8
-20°	41840.0	39360.3	36872.8	34189.6	31374.1	28640.1	25980.5	23498.5	21042.3	18624.0	16364.3



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	39753.6	37507.8	35169.3	32725.8	30187.1	27597.0	25087.8	22707.6	20366.8	17987.9	15875.2
-25°	37550.7	35515.1	33337.9	31106.3	28813.6	26418.7	24072.0	21801.7	19535.9	17309.4	15315.5
-27.5°	35264.1	33391.1	31509.0	29438.5	27306.1	25144.6	22959.6	20793.0	18620.5	16618.6	14730.5
-30°	32917.5	31253.4	29558.0	27766.9	25768.0	23742.3	21744.0	19735.7	17744.4	15856.9	14068.5
-32.5°	30525.3	29074.3	27544.6	25973.9	24166.5	22287.5	20461.9	18659.1	16813.6	15066.7	13416.6
-35°	28152.9	26902.6	25541.9	24077.9	22515.2	20827.8	19136.4	17495.5	15872.0	14230.5	12713.0
-37.5°	25877.7	24785.6	23537.7	22185.0	20820.5	19356.1	17832.7	16337.8	14846.9	13395.6	11973.5
-40°	23620.6	22628.9	21572.5	20363.8	19149.3	17902.5	16554.0	15169.7	13833.3	12524.1	11201.9
-42.5°	21437.9	20574.4	19658.3	18613.3	17520.3	16444.2	15282.9	14032.6	12798.8	11609.7	10457.3
-45°	19353.3	18602.8	17786.9	16919.2	15958.1	15000.4	14007.2	12885.6	11762.3	10711.5	9674.1
-47.5°	17359.2	16713.0	16008.0	15288.1	14455.4	13585.4	12704.3	11731.3	10771.3	9807.7	8909.2
-50°	15445.6	14898.7	14311.7	13706.4	13018.0	12239.0	11460.2	10663.5	9798.0	8963.7	8142.0
-52.5°	13620.0	13199.9	12741.4	12229.8	11666.0	10996.4	10292.3	9617.8	8876.0	8141.6	7411.4
-55°	12061.9	11680.6	11298.3	10871.0	10405.3	9831.2	9228.6	8624.9	8015.5	7343.4	6710.6
-57.5°	10637.9	10283.9	9964.3	9607.9	9215.8	8738.2	8227.3	7696.8	7174.7	6595.1	6019.2
-60°	9333.8	8996.9	8727.8	8431.7	8109.1	7712.9	7278.1	6821.4	6343.6	5869.0	5381.7
-62.5°	8097.7	7803.3	7576.6	7340.1	7080.7	6772.6	6382.7	5995.8	5591.8	5170.7	4773.8
-65°	6979.6	6729.2	6525.0	6338.5	6133.2	5904.3	5562.8	5225.6	4891.0	4546.4	4191.8
-67.5°	5976.2	5763.7	5589.0	5429.2	5266.1	5085.6	4815.4	4521.4	4237.6	3956.0	3656.6
-70°	5069.8	4895.7	4745.9	4612.5	4473.8	4327.4	4119.2	3878.9	3633.4	3393.4	3143.1
-72.5°	4246.7	4104.8	3976.3	3868.7	3749.3	3628.4	3469.6	3272.3	3068.7	2859.3	2650.1
-75°	3483.1	3368.2	3260.1	3176.0	3084.4	2985.4	2863.7	2703.1	2540.3	2376.1	2208.8
-77.5°	2773.8	2685.3	2599.6	2537.7	2469.5	2394.9	2301.7	2174.3	2054.7	1932.5	1807.7
-80°	2139.0	2074.1	2010.1	1970.7	1928.0	1882.2	1825.9	1728.3	1628.5	1531.8	1439.4
-82.5°	1597.6	1553.1	1508.4	1487.9	1464.0	1436.7	1402.5	1331.7	1260.0	1187.4	1114.3
-85°	1178.7	1148.0	1116.9	1104.8	1091.1	1075.6	1057.2	1010.9	963.7	915.8	867.1
-87.5°	903.1	880.1	857.2	848.3	839.2	829.7	819.7	788.6	757.4	726.1	694.8
-90°	6.7	7.1	7.6	8.1	8.6	9.0	9.5	10.0	10.5	10.9	11.4



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	578.6	550.9	523.3	495.6	467.5	439.4	411.2	383.1	351.2	319.3	287.3
87.5°	20.9	22.2	23.3	24.3	23.8	23.3	22.8	22.2	23.1	23.7	24.1
85°	44.3	41.8	39.8	38.3	36.1	33.3	32.3	31.1	32.5	33.3	33.4
82.5°	80.3	73.3	66.7	61.4	59.8	57.2	53.7	49.3	46.8	43.6	42.9
80°	107.7	98.6	89.9	82.9	82.0	81.3	77.6	72.8	69.0	64.2	58.5
77.5°	136.6	124.0	111.5	102.4	99.6	97.1	95.0	94.2	91.2	84.8	77.3
75°	166.9	152.1	137.5	127.4	121.7	112.6	108.7	109.2	112.3	105.9	96.1
72.5°	197.9	182.4	165.2	155.3	152.2	144.1	131.0	126.0	134.3	131.4	117.2
70°	225.7	213.1	196.3	192.0	188.1	177.5	165.3	161.8	158.2	158.1	145.6
67.5°	251.1	239.8	225.3	231.3	230.8	221.1	202.3	204.1	202.8	186.5	174.8
65°	259.2	259.9	256.6	272.9	276.4	267.8	249.8	252.7	249.3	233.2	205.0
62.5°	267.3	274.6	287.3	316.9	326.0	319.2	303.2	313.5	300.7	281.3	247.0
60°	276.5	290.2	325.3	362.6	378.8	374.5	370.9	378.2	365.7	331.1	294.4
57.5°	306.8	312.9	375.6	418.5	436.7	434.6	446.9	453.9	433.7	393.9	343.5
55°	356.5	380.3	450.4	489.7	506.3	501.0	534.5	538.5	507.7	461.6	396.1
52.5°	454.2	508.7	569.1	590.4	593.0	594.1	639.6	629.4	595.6	531.6	462.3
50°	673.3	721.2	753.2	740.6	700.9	735.0	757.8	743.7	688.1	608.1	531.5
47.5°	1135.6	1115.7	1033.4	943.6	871.6	901.2	914.6	869.9	785.4	697.3	602.1
45°	1847.6	1683.1	1461.6	1269.1	1116.5	1133.3	1099.3	1006.3	910.9	793.8	674.2
42.5°	2621.8	2373.8	2091.9	1637.9	1493.7	1403.4	1304.3	1189.8	1044.0	893.5	755.8
40°	3530.9	3103.8	2777.5	2288.1	1895.7	1698.6	1568.2	1393.7	1183.4	1002.0	844.4
37.5°	4390.2	3867.2	3458.5	2901.6	2339.1	2072.1	1854.4	1612.0	1332.5	1123.3	934.3
35°	5184.4	4608.7	4039.5	3455.0	2867.4	2446.8	2156.8	1855.6	1506.2	1243.5	1025.2
32.5°	5961.2	5292.4	4631.0	3976.9	3352.9	2822.0	2486.1	2070.1	1672.8	1362.3	1116.7
30°	6760.1	5979.7	5220.0	4481.8	3805.0	3240.1	2783.1	2271.2	1832.1	1479.4	1210.2
27.5°	7562.1	6657.9	5810.7	5001.9	4253.8	3622.9	3010.0	2458.7	1983.8	1601.8	1307.8
25°	8384.3	7372.9	6420.3	5521.8	4684.3	3917.5	3227.7	2633.2	2138.6	1730.8	1402.8
22.5°	9220.1	8097.8	7013.8	6028.4	5041.6	4214.3	3455.8	2816.7	2288.0	1852.8	1494.8
20°	10006.7	8812.0	7569.0	6435.1	5394.5	4521.5	3698.4	2989.8	2425.7	1967.6	1583.6
17.5°	10765.1	9454.4	8062.2	6833.2	5736.4	4803.8	3934.9	3151.8	2551.7	2075.1	1668.8
15°	11550.1	10017.3	8539.3	7199.3	6048.3	5061.1	4162.8	3302.1	2666.1	2175.2	1740.4
12.5°	12252.8	10564.3	8984.8	7531.7	6329.5	5293.4	4379.4	3439.9	2769.2	2263.3	1796.3
10°	12878.2	11085.8	9393.4	7828.6	6579.3	5500.7	4582.0	3580.4	2890.4	2342.5	1848.2
7.5°	13425.5	11571.8	9759.7	8088.5	6799.6	5672.9	4735.5	3740.4	3010.3	2415.9	1895.5
5°	13875.7	11974.0	10111.6	8388.6	7003.4	5812.8	4853.1	3886.7	3123.4	2482.6	1937.6
2.5°	14169.4	12247.9	10426.7	8667.4	7177.9	5931.0	4942.4	4018.5	3227.5	2541.7	1973.8
0°	14386.2	12449.5	10682.4	8905.8	7319.8	6025.5	5007.6	4134.6	3320.6	2592.4	2003.4
-2.5°	14665.5	12646.8	10842.0	9094.7	7518.3	6193.1	5118.3	4208.0	3385.9	2655.6	2052.6
-5°	14857.9	12776.0	10945.9	9236.9	7678.7	6330.9	5206.9	4264.7	3438.1	2709.1	2094.2
-7.5°	14992.4	12880.4	11015.3	9331.2	7799.1	6435.2	5271.1	4304.3	3477.6	2752.2	2127.8
-10°	15044.0	12936.7	11052.8	9359.1	7837.0	6484.6	5309.1	4326.8	3504.3	2784.6	2152.9
-12.5°	15003.1	12909.9	11024.0	9336.3	7825.3	6483.5	5323.4	4344.5	3519.4	2806.0	2169.1
-15°	14868.9	12796.8	10927.0	9262.2	7770.9	6450.2	5313.9	4348.7	3525.6	2813.3	2176.3
-17.5°	14629.6	12595.0	10760.0	9136.4	7673.1	6384.7	5280.6	4332.6	3516.3	2805.2	2171.2
-20°	14291.5	12330.0	10532.2	8958.8	7531.5	6286.9	5223.6	4295.6	3491.3	2784.6	2155.2



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	13887.8	12028.8	10313.5	8758.6	7366.1	6156.9	5142.8	4237.4	3450.0	2751.4	2130.6
-25°	13415.2	11676.0	10037.2	8540.6	7193.0	6042.1	5050.0	4157.8	3392.4	2705.3	2097.5
-27.5°	12946.7	11283.9	9698.1	8279.3	7008.7	5902.6	4944.1	4079.7	3322.8	2646.2	2055.7
-30°	12456.0	10857.1	9354.6	7993.1	6787.9	5744.1	4813.3	3983.1	3245.9	2584.0	2005.5
-32.5°	11883.3	10363.1	8980.7	7715.5	6567.6	5552.6	4658.1	3867.1	3153.3	2517.5	1957.5
-35°	11254.4	9866.0	8570.5	7399.1	6322.1	5358.2	4492.1	3731.9	3045.1	2441.3	1905.6
-37.5°	10585.9	9337.2	8186.2	7064.2	6035.4	5135.9	4325.0	3591.6	2921.4	2355.5	1846.5
-40°	9963.4	8793.3	7725.3	6709.3	5750.1	4886.2	4137.0	3443.9	2805.5	2260.3	1780.5
-42.5°	9298.2	8248.4	7254.6	6303.7	5447.9	4655.9	3932.2	3282.2	2690.7	2170.0	1707.6
-45°	8661.0	7681.2	6762.1	5921.7	5126.2	4404.2	3737.9	3111.1	2562.1	2078.5	1633.1
-47.5°	7997.6	7116.5	6284.6	5512.5	4822.9	4142.9	3529.0	2949.8	2420.1	1979.4	1558.5
-50°	7356.0	6556.7	5810.3	5124.4	4483.5	3897.6	3311.5	2772.3	2292.8	1868.5	1476.5
-52.5°	6709.1	6012.8	5349.9	4729.5	4168.5	3637.7	3093.3	2583.1	2154.3	1756.3	1387.4
-55°	6078.8	5489.2	4895.2	4351.2	3844.5	3362.9	2857.8	2412.8	2005.2	1639.2	1293.5
-57.5°	5490.5	4967.0	4461.4	3974.5	3511.5	3065.7	2634.9	2230.6	1857.4	1514.4	1209.8
-60°	4909.9	4476.0	4028.2	3592.4	3169.1	2779.8	2415.3	2042.9	1704.0	1386.9	1118.3
-62.5°	4376.2	3984.6	3598.8	3202.2	2843.0	2510.2	2187.5	1857.4	1542.4	1271.4	1020.8
-65°	3856.0	3511.7	3163.1	2844.3	2533.1	2238.0	1962.7	1662.9	1395.2	1150.1	925.7
-67.5°	3348.1	3061.7	2777.1	2492.0	2232.7	1980.0	1727.9	1483.1	1247.4	1023.6	844.0
-70°	2888.2	2633.8	2400.4	2173.6	1944.7	1721.0	1518.1	1306.0	1093.9	922.2	759.1
-72.5°	2450.1	2251.5	2054.9	1857.7	1674.4	1491.6	1309.7	1131.6	971.6	818.1	671.4
-75°	2038.8	1885.1	1734.8	1580.8	1419.1	1260.3	1123.8	987.8	846.5	710.9	597.5
-77.5°	1681.0	1554.5	1428.5	1311.3	1188.7	1069.6	954.4	840.2	725.9	624.0	527.3
-80°	1347.8	1256.0	1164.2	1071.2	971.8	875.9	795.1	713.7	623.6	537.4	455.4
-82.5°	1042.8	980.3	919.8	858.0	790.7	724.0	658.2	592.4	519.3	449.1	395.1
-85°	819.8	771.7	723.0	673.6	621.8	570.7	532.9	494.6	449.2	404.3	359.8
-87.5°	664.2	633.3	602.1	570.7	538.1	505.3	472.4	439.2	400.5	362.0	323.8
-90°	11.9	12.4	12.8	13.3	13.3	13.3	13.3	13.3	13.8	14.3	14.7



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	255.4	211.6	167.8	123.9	80.1	46.7	13.3
87.5°	24.1	23.4	22.3	21.0	19.4	16.9	13.3
85°	33.0	31.5	29.5	26.8	23.5	19.6	13.3
82.5°	42.0	39.7	36.6	32.6	27.7	22.2	13.3
80°	51.9	47.9	43.7	38.3	31.9	24.9	13.3
77.5°	69.1	59.4	50.8	44.1	36.1	27.5	13.3
75°	86.6	77.0	59.7	49.8	40.3	30.1	13.3
72.5°	104.6	94.8	76.2	55.5	44.5	32.7	13.3
70°	124.5	112.9	92.8	62.8	48.8	35.3	13.3
67.5°	155.0	131.3	109.6	76.9	53.1	37.9	13.3
65°	186.2	155.5	126.4	90.9	57.4	40.5	13.3
62.5°	218.4	185.4	143.4	104.9	61.8	43.0	13.3
60°	251.5	215.8	160.6	118.8	66.2	45.5	13.3
57.5°	297.1	246.6	186.7	132.7	76.3	48.0	13.3
55°	345.0	278.0	213.3	146.6	86.4	50.5	13.3
52.5°	393.8	311.5	240.0	160.3	96.3	52.9	13.3
50°	443.5	354.3	266.8	174.0	106.0	55.3	13.3
47.5°	495.6	397.3	293.6	189.2	115.6	57.6	13.3
45°	558.0	440.4	320.4	209.5	124.9	59.9	13.3
42.5°	620.9	483.7	347.1	229.4	134.0	62.1	13.3
40°	684.0	526.9	377.4	249.0	142.9	64.3	13.3
37.5°	747.4	570.0	411.0	268.2	151.5	66.4	13.3
35°	810.8	618.2	444.0	286.8	159.9	68.5	13.3
32.5°	877.4	668.6	476.3	304.6	167.9	70.5	13.3
30°	951.6	718.0	508.0	321.8	175.7	72.4	13.3
27.5°	1024.9	766.4	536.7	338.2	183.1	74.3	13.3
25°	1097.0	813.6	564.0	353.7	190.1	76.0	13.3
22.5°	1167.5	857.2	589.8	368.5	196.8	77.7	13.3
20°	1236.2	893.5	614.0	382.3	203.0	79.2	13.3
17.5°	1290.0	927.0	636.7	395.2	208.9	80.7	13.3
15°	1331.9	957.7	657.6	407.1	214.3	82.1	13.3
12.5°	1368.9	985.5	676.8	418.0	219.2	83.3	13.3
10°	1401.0	1010.3	694.1	427.8	223.7	84.4	13.3
7.5°	1428.3	1032.2	709.5	436.5	227.7	85.5	13.3
5°	1450.7	1050.9	722.9	444.1	231.1	86.3	13.3
2.5°	1468.3	1066.5	734.2	450.5	234.0	87.1	13.3
0°	1481.1	1078.9	743.4	455.6	236.4	87.7	13.3
-2.5°	1516.7	1099.0	755.6	462.5	240.0	89.4	13.3
-5°	1547.2	1115.7	765.4	468.1	243.1	91.0	13.3
-7.5°	1571.9	1128.8	772.8	472.3	245.6	92.4	13.3
-10°	1590.6	1138.1	777.8	475.2	247.4	93.7	13.3
-12.5°	1602.7	1143.4	780.2	476.7	248.7	94.8	13.3
-15°	1607.9	1144.7	779.9	476.7	249.4	95.7	13.3
-17.5°	1605.8	1141.7	776.9	475.3	249.4	96.5	13.3
-20°	1596.9	1134.4	771.2	472.4	248.8	97.1	13.3



REPORT NUMBER: P701482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1582.9	1122.7	762.7	468.0	247.6	97.5	13.3
-25°	1562.6	1111.2	751.3	462.1	245.8	97.8	13.3
-27.5°	1536.2	1096.9	737.0	454.7	243.4	97.8	13.3
-30°	1503.6	1077.9	720.4	445.7	240.3	97.7	13.3
-32.5°	1464.8	1054.0	705.3	435.3	236.7	97.4	13.3
-35°	1428.7	1025.4	687.1	423.3	232.4	97.0	13.3
-37.5°	1390.0	994.7	665.8	409.8	227.5	96.3	13.3
-40°	1345.1	965.1	641.6	394.9	222.1	95.5	13.3
-42.5°	1293.9	931.5	619.1	379.5	216.0	94.5	13.3
-45°	1236.7	893.8	598.8	364.2	209.4	93.3	13.3
-47.5°	1173.5	852.2	576.2	347.4	202.3	92.0	13.3
-50°	1116.2	806.8	551.2	335.5	194.6	90.4	13.3
-52.5°	1055.8	757.6	523.9	324.5	186.3	88.8	13.3
-55°	990.8	717.2	494.4	312.2	177.6	86.9	13.3
-57.5°	921.3	676.1	462.8	298.7	168.3	84.9	13.3
-60°	849.6	632.2	429.9	284.2	158.7	82.7	13.3
-62.5°	791.2	585.6	407.0	268.5	153.7	80.4	13.3
-65°	729.4	536.5	382.6	251.8	148.3	77.9	13.3
-67.5°	664.5	493.1	356.6	234.2	142.7	75.3	13.3
-70°	596.8	455.6	329.2	215.6	136.7	72.6	13.3
-72.5°	542.9	416.2	300.6	204.1	130.4	69.7	13.3
-75°	489.3	375.2	270.7	193.9	123.9	66.7	13.3
-77.5°	433.7	332.7	252.6	183.2	117.1	63.6	13.3
-80°	376.3	303.6	236.7	172.0	110.1	60.4	13.3
-82.5°	344.5	281.5	220.1	160.5	102.9	57.1	13.3
-85°	315.5	258.7	203.1	148.6	95.4	53.7	13.3
-87.5°	285.7	235.4	185.6	136.4	87.8	50.2	13.3
-90°	15.2	15.2	15.2	15.2	15.2	14.3	13.3

(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

