

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: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-7F-VHE-S**

Issue Date: 8/29/2023

Test Information

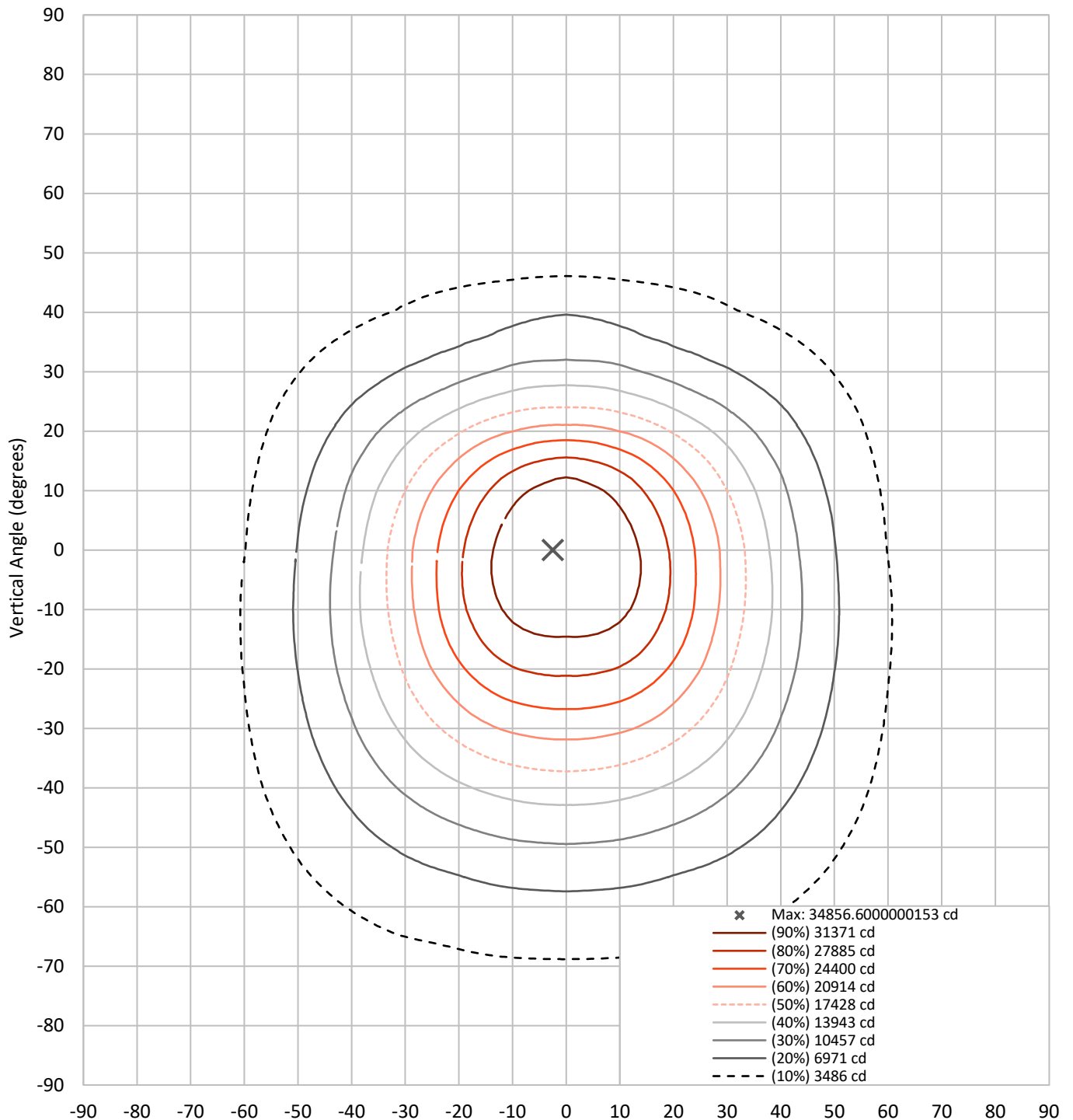
Test Method: LM-79-08
Report Number: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-70-7F-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 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:	46372.1 lumens	Max Intensity:	34856.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	134.7 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:	25177.8 lumens	Field Lumens:	43454.8 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	344.2		
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		

REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

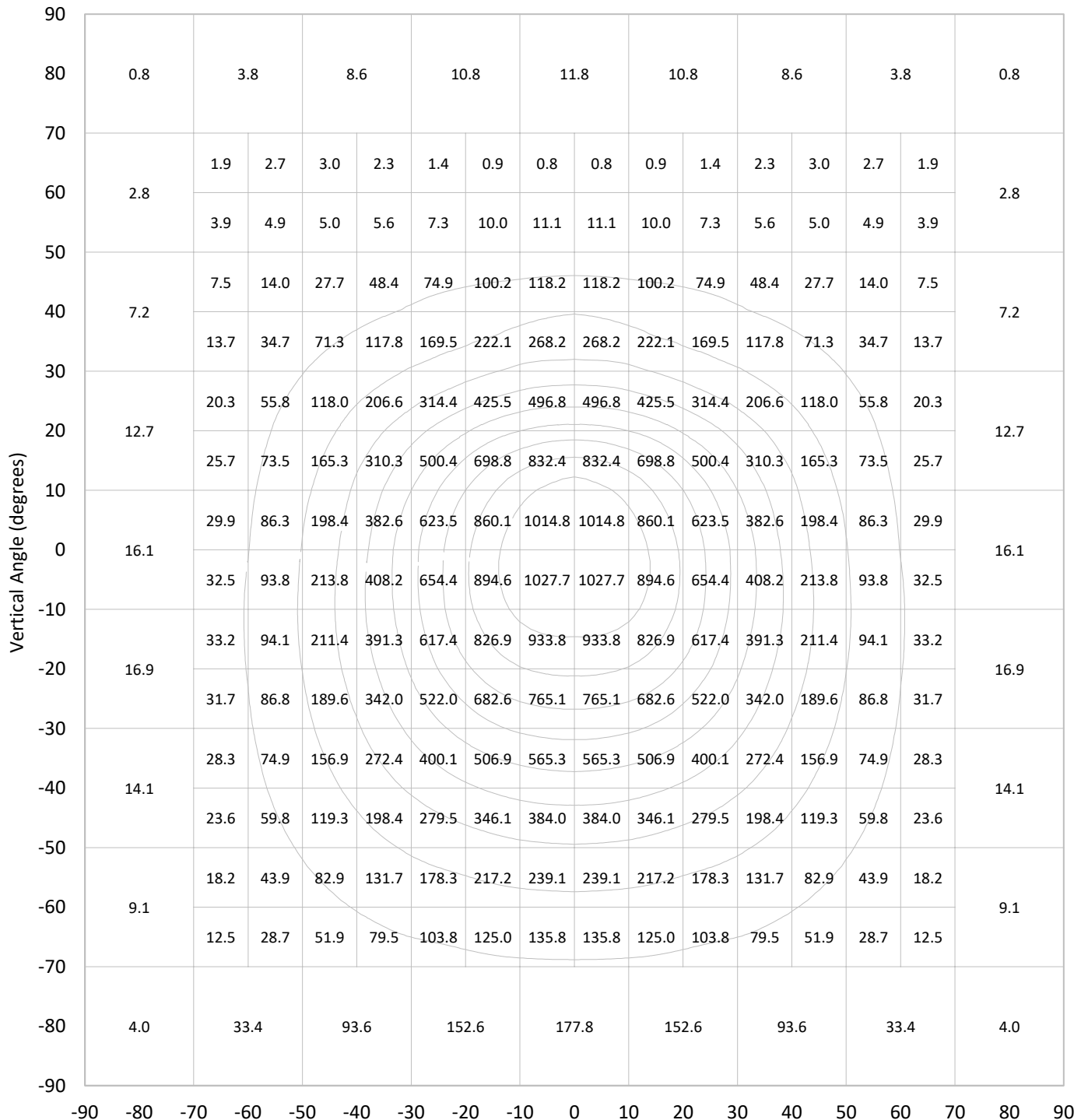
Iso-Candela Plot





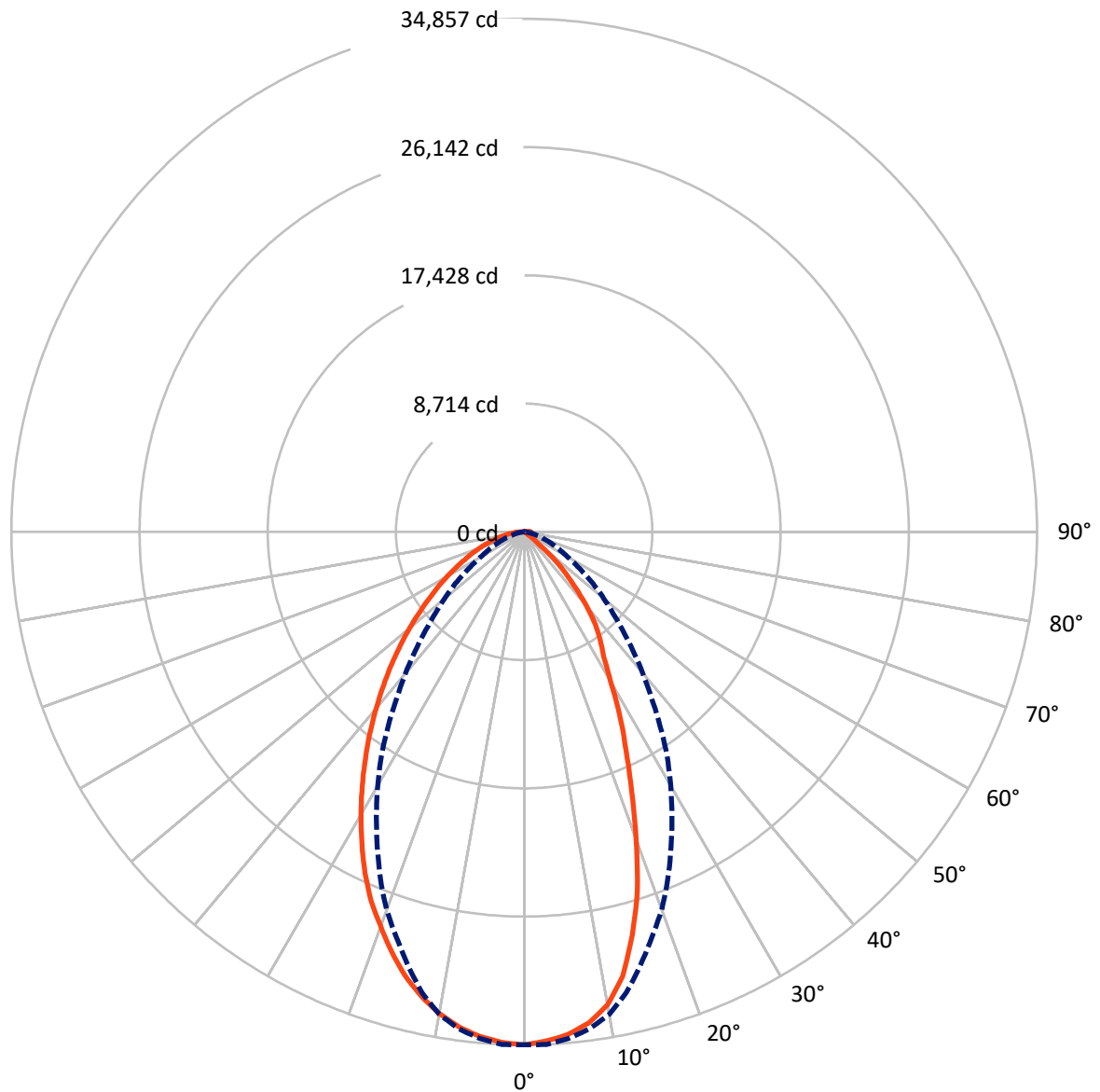
REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

Lumen Table



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

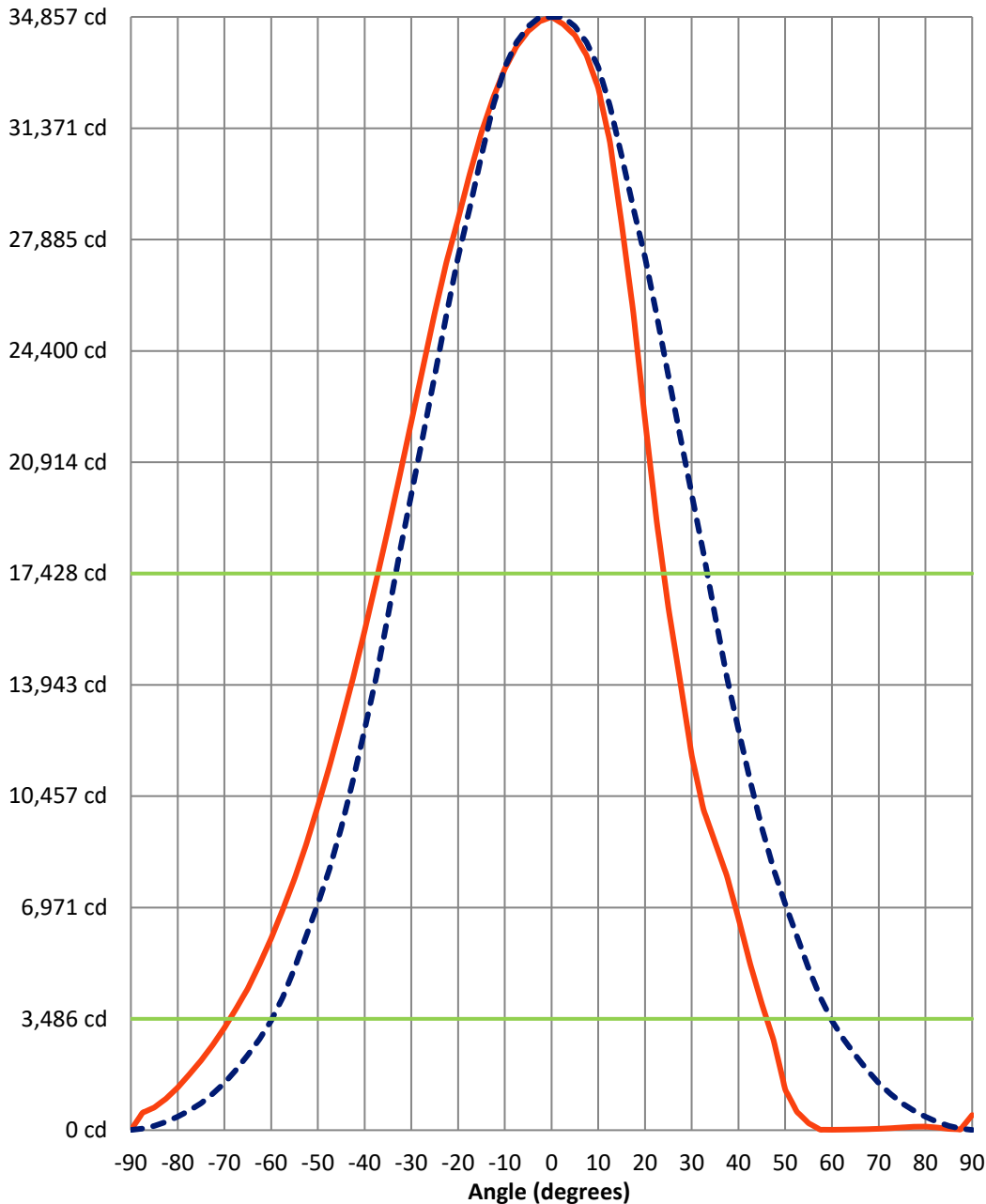
Luminous Intensity Polar Plot



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

REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 25177.8
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 43454.8
 Efficiency: 93.7%

Spill:
 Lumens: 2917.2
 Efficiency: 6.3%

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



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.6	26.6	45.5	70.5	95.4	120.4	145.3	163.5	181.6	199.8	217.9
87.5°	7.6	9.7	11.1	12.0	12.7	13.3	13.7	13.7	13.5	13.2	12.6
85°	7.6	11.2	13.4	15.3	16.8	18.0	18.8	19.0	18.9	18.5	17.7
82.5°	7.6	12.7	15.8	18.6	20.8	22.6	23.9	24.4	24.8	26.6	28.0
80°	7.6	14.2	18.2	21.8	24.9	27.3	29.5	33.3	36.5	39.2	41.4
77.5°	7.6	15.7	20.5	25.1	28.9	33.8	39.3	44.0	48.3	51.9	53.6
75°	7.6	17.2	22.9	28.4	33.9	43.8	49.3	54.7	60.3	63.9	62.1
72.5°	7.6	18.7	25.3	31.6	43.3	53.9	59.5	66.7	74.8	76.4	71.7
70°	7.6	20.1	27.8	35.8	52.8	64.2	70.8	82.8	89.9	90.0	92.0
67.5°	7.6	21.6	30.2	43.7	62.3	74.7	88.2	99.5	106.1	115.4	116.1
65°	7.6	23.1	32.7	51.7	71.9	88.4	106.0	116.7	132.7	141.8	143.8
62.5°	7.6	24.5	35.2	59.7	81.6	105.5	124.3	140.5	160.0	171.1	178.3
60°	7.6	25.9	37.7	67.6	91.3	122.7	143.1	167.5	188.3	208.0	215.1
57.5°	7.6	27.3	43.4	75.5	106.2	140.3	169.0	195.4	224.0	246.7	258.2
55°	7.6	28.7	49.1	83.4	121.3	158.1	196.2	225.3	262.6	288.8	306.3
52.5°	7.6	30.1	54.8	91.2	136.5	177.2	224.0	262.9	302.4	338.8	358.0
50°	7.6	31.5	60.3	98.9	151.8	201.5	252.2	302.3	345.8	391.4	423.0
47.5°	7.6	32.8	65.7	107.6	167.0	226.0	281.9	342.5	396.6	446.7	494.8
45°	7.6	34.1	71.0	119.1	182.2	250.5	317.4	383.5	451.5	518.1	572.4
42.5°	7.6	35.4	76.2	130.4	197.4	275.1	353.1	429.9	508.2	593.8	676.7
40°	7.6	36.6	81.3	141.6	214.6	299.7	389.1	480.3	570.0	673.1	792.7
37.5°	7.6	37.8	86.2	152.5	233.7	324.2	425.1	531.4	638.9	757.9	916.9
35°	7.6	39.0	90.9	163.1	252.5	351.7	461.2	583.1	707.3	856.7	1055.4
32.5°	7.6	40.1	95.5	173.2	270.9	380.3	499.1	635.2	774.8	951.5	1177.4
30°	7.6	41.2	99.9	183.0	288.9	408.4	541.3	688.4	841.4	1042.1	1291.8
27.5°	7.6	42.3	104.1	192.3	305.3	435.9	583.0	743.9	911.1	1128.4	1398.5
25°	7.6	43.3	108.1	201.2	320.8	462.8	624.0	797.9	984.5	1216.4	1497.8
22.5°	7.6	44.2	111.9	209.6	335.5	487.6	664.1	850.2	1053.9	1301.4	1602.1
20°	7.6	45.1	115.4	217.4	349.3	508.2	703.1	900.8	1119.2	1379.7	1700.6
17.5°	7.6	45.9	118.8	224.8	362.1	527.3	733.8	949.2	1180.3	1451.4	1792.7
15°	7.6	46.7	121.8	231.5	374.1	544.7	757.6	989.9	1237.3	1516.5	1878.2
12.5°	7.6	47.4	124.6	237.7	385.0	560.6	778.6	1021.7	1287.4	1575.1	1956.6
10°	7.6	48.1	127.2	243.3	394.9	574.7	796.9	1051.3	1332.5	1644.0	2036.5
7.5°	7.6	48.6	129.4	248.3	403.6	587.1	812.4	1078.2	1374.2	1712.2	2127.5
5°	7.6	49.1	131.4	252.6	411.2	597.8	825.2	1102.1	1412.1	1776.6	2210.8
2.5°	7.6	49.6	133.1	256.2	417.7	606.7	835.2	1122.7	1445.8	1835.8	2285.7
0°	7.6	49.9	134.4	259.1	422.9	613.7	842.5	1139.6	1474.6	1888.8	2351.7
-2.5°	7.6	50.9	136.5	263.0	429.8	625.1	862.8	1167.6	1510.6	1925.9	2393.5
-5°	7.6	51.8	138.2	266.2	435.4	634.6	880.1	1191.2	1540.9	1955.7	2425.7
-7.5°	7.6	52.6	139.6	268.6	439.6	642.1	894.1	1210.3	1565.5	1978.1	2448.2
-10°	7.6	53.3	140.7	270.3	442.4	647.3	904.7	1224.6	1583.9	1993.3	2461.0
-12.5°	7.6	53.9	141.4	271.1	443.8	650.4	911.6	1233.8	1596.0	2001.8	2471.1
-15°	7.6	54.5	141.8	271.1	443.6	651.1	914.6	1237.9	1600.2	2005.4	2473.5
-17.5°	7.6	54.9	141.8	270.3	441.9	649.4	913.3	1235.0	1595.6	2000.1	2464.4
-20°	7.6	55.2	141.5	268.7	438.7	645.3	908.3	1225.9	1583.9	1985.8	2443.3



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.6	55.5	140.8	266.2	433.8	638.6	900.3	1211.9	1565.0	1962.4	2410.2
-25°	7.6	55.6	139.8	262.8	427.3	632.0	888.8	1193.0	1538.8	1929.6	2365.0
-27.5°	7.6	55.7	138.4	258.6	419.2	623.9	873.8	1169.3	1505.2	1890.0	2320.5
-30°	7.6	55.6	136.7	253.5	409.8	613.1	855.2	1140.7	1469.8	1846.2	2265.6
-32.5°	7.6	55.4	134.6	247.5	401.1	599.5	833.2	1113.4	1432.0	1793.6	2199.6
-35°	7.6	55.2	132.2	240.7	390.8	583.2	812.6	1083.9	1388.7	1732.0	2122.7
-37.5°	7.6	54.8	129.4	233.1	378.7	565.8	790.6	1050.3	1339.9	1661.7	2042.9
-40°	7.6	54.3	126.3	224.6	364.9	549.0	765.1	1012.7	1285.7	1595.8	1958.9
-42.5°	7.6	53.8	122.9	215.8	352.1	529.8	736.0	971.3	1234.3	1530.5	1866.9
-45°	7.6	53.1	119.1	207.1	340.6	508.4	703.4	928.9	1182.3	1457.4	1769.6
-47.5°	7.6	52.3	115.0	197.6	327.7	484.7	667.5	886.4	1125.9	1376.6	1677.9
-50°	7.6	51.4	110.6	190.8	313.5	458.9	634.8	839.8	1062.8	1304.2	1577.0
-52.5°	7.6	50.5	106.0	184.5	298.0	430.9	600.5	789.1	998.9	1225.4	1469.3
-55°	7.6	49.4	101.0	177.5	281.2	407.9	563.5	735.7	932.4	1140.6	1372.4
-57.5°	7.6	48.3	95.7	169.9	263.2	384.5	524.0	688.1	861.4	1056.5	1268.7
-60°	7.6	47.0	90.2	161.6	244.5	359.6	483.2	636.1	788.9	969.3	1162.0
-62.5°	7.6	45.7	87.4	152.7	231.5	333.1	450.0	580.6	723.1	877.3	1056.5
-65°	7.6	44.3	84.3	143.2	217.6	305.1	414.8	526.5	654.2	793.6	945.9
-67.5°	7.6	42.8	81.1	133.2	202.8	280.4	377.9	480.0	582.2	709.5	843.6
-70°	7.6	41.3	77.7	122.6	187.2	259.1	339.4	431.7	524.5	622.2	742.9
-72.5°	7.6	39.6	74.2	116.1	170.9	236.7	308.8	381.9	465.3	552.6	643.7
-75°	7.6	37.9	70.4	110.2	154.0	213.4	278.3	339.8	404.3	481.5	561.8
-77.5°	7.6	36.2	66.6	104.2	143.7	189.2	246.7	299.9	354.9	412.9	477.9
-80°	7.6	34.3	62.6	97.8	134.6	172.7	214.1	259.0	305.7	354.7	405.9
-82.5°	7.6	32.5	58.5	91.3	125.2	160.1	196.0	224.7	255.4	295.3	336.9
-85°	7.6	30.5	54.2	84.5	115.5	147.2	179.5	204.6	229.9	255.5	281.3
-87.5°	7.6	28.6	49.9	77.6	105.6	133.9	162.5	184.2	205.9	227.8	249.8
-90°	7.6	8.2	8.7	8.7	8.7	8.7	8.7	8.4	8.2	7.9	7.6



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	233.9	249.9	265.9	281.9	297.6	313.4	329.1	344.8	359.4	374.1	388.7
87.5°	13.0	13.3	13.6	13.8	13.3	12.6	11.9	11.1	12.0	13.0	14.0
85°	18.3	18.9	20.5	21.8	22.6	23.8	25.2	26.9	30.1	33.2	36.3
82.5°	30.5	32.6	34.0	34.9	38.0	41.7	45.7	49.4	53.0	56.4	59.7
80°	44.1	46.3	46.7	47.2	51.1	56.1	61.3	66.7	71.1	75.0	78.8
77.5°	54.1	55.2	56.7	58.3	63.4	70.6	77.7	84.9	90.2	94.5	98.3
75°	61.8	64.1	69.2	72.5	78.2	86.6	94.9	103.0	108.2	111.2	113.1
72.5°	74.5	82.0	86.6	88.4	94.0	103.8	112.6	120.4	124.5	123.9	121.3
70°	94.1	101.0	107.0	109.2	111.7	121.2	128.4	134.0	136.5	131.5	121.8
67.5°	115.1	125.8	131.3	131.6	128.1	136.4	142.9	142.1	137.7	127.0	114.2
65°	142.1	152.3	157.2	155.2	146.0	147.9	147.4	143.6	133.7	118.9	103.6
62.5°	172.5	181.6	185.4	180.3	163.5	156.2	152.1	142.2	127.0	112.6	98.1
60°	211.0	213.0	215.5	206.2	185.1	165.1	157.2	147.4	131.2	111.4	99.5
57.5°	254.2	247.2	248.4	238.0	213.6	177.9	174.5	161.9	148.2	122.1	109.9
55°	304.0	284.9	288.0	278.6	256.2	216.3	202.8	201.0	181.9	161.3	138.7
52.5°	363.8	337.9	337.3	335.9	323.7	289.4	258.4	279.9	292.0	269.1	283.7
50°	431.0	418.1	398.7	421.3	428.4	410.2	383.0	443.2	515.7	548.9	548.1
47.5°	520.2	512.6	495.8	536.7	587.8	634.6	645.9	754.7	864.6	986.0	1000.5
45°	625.3	644.6	635.1	721.9	831.4	957.3	1050.9	1156.4	1406.6	1551.6	1766.5
42.5°	741.9	798.3	849.6	931.6	1189.9	1350.2	1491.3	1756.2	2005.0	2215.3	2437.4
40°	892.0	966.2	1078.3	1301.5	1579.9	1765.5	2008.4	2310.3	2562.2	2799.7	3027.0
37.5°	1054.8	1178.6	1330.5	1650.4	1967.2	2199.7	2497.2	2796.5	3082.9	3349.5	3667.3
35°	1226.8	1391.8	1631.0	1965.2	2297.7	2621.5	2948.9	3282.3	3609.2	3974.4	4331.8
32.5°	1414.1	1605.2	1907.1	2262.1	2634.2	3010.4	3390.7	3780.0	4195.5	4621.3	5000.5
30°	1583.0	1843.0	2164.3	2549.3	2969.2	3401.3	3845.1	4293.2	4803.3	5307.3	5762.3
27.5°	1712.1	2060.7	2419.6	2845.1	3305.2	3787.0	4301.3	4856.5	5450.4	6028.1	6568.2
25°	1835.9	2228.3	2664.4	3140.8	3651.9	4193.7	4769.0	5390.5	6119.3	6796.3	7469.9
22.5°	1965.7	2397.1	2867.7	3429.0	3989.5	4606.0	5244.4	5959.7	6765.1	7565.3	8384.0
20°	2103.7	2571.8	3068.4	3660.3	4305.3	5012.2	5691.8	6524.3	7420.3	8350.2	9348.8
17.5°	2238.2	2732.4	3262.9	3886.8	4585.8	5377.7	6123.2	7070.9	8063.7	9127.4	10256.9
15°	2367.8	2878.8	3440.3	4095.0	4857.2	5697.9	6569.7	7608.1	8718.5	9892.8	11078.9
12.5°	2491.1	3010.9	3600.3	4284.0	5110.5	6009.0	6969.4	8061.5	9277.7	10575.6	11868.5
10°	2606.3	3128.8	3742.4	4452.9	5342.9	6305.6	7325.1	8466.7	9731.3	11068.6	12510.6
7.5°	2693.6	3226.8	3867.7	4600.8	5551.3	6582.1	7636.4	8821.9	10114.6	11507.5	13057.7
5°	2760.4	3306.3	3983.5	4771.4	5751.5	6810.8	7892.5	9124.7	10428.8	11885.1	13529.9
2.5°	2811.2	3373.6	4082.8	4930.0	5930.7	6966.6	8059.6	9323.4	10711.6	12237.7	13913.8
0°	2848.3	3427.3	4163.5	5065.6	6076.2	7081.3	8182.9	9467.7	10941.2	12536.1	14197.2
-2.5°	2911.3	3522.6	4276.4	5173.1	6167.0	7193.5	8341.8	9668.6	11159.1	12724.4	14441.6
-5°	2961.7	3601.0	4367.6	5253.9	6226.1	7267.0	8451.2	9808.4	11301.7	12851.2	14567.8
-7.5°	2998.2	3660.3	4436.1	5307.6	6265.5	7326.4	8527.7	9877.9	11355.0	12926.9	14587.5
-10°	3019.8	3688.4	4457.7	5323.5	6286.8	7358.4	8557.1	9888.1	11339.0	12909.1	14533.5
-12.5°	3028.0	3687.8	4451.0	5310.5	6270.5	7343.1	8533.8	9839.9	11255.4	12794.4	14395.7
-15°	3022.6	3668.9	4420.1	5268.4	6215.3	7278.8	8457.5	9734.4	11100.2	12560.7	14116.9
-17.5°	3003.6	3631.6	4364.4	5196.8	6120.3	7164.0	8321.4	9539.3	10877.3	12290.8	13762.7
-20°	2971.1	3576.0	4283.9	5095.8	5990.7	7013.3	8129.0	9308.0	10593.3	11968.9	13365.9



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2925.2	3502.1	4189.9	4981.9	5866.4	6842.0	7899.4	9029.8	10231.5	11584.6	12916.1
-25°	2872.4	3436.8	4091.4	4857.9	5709.2	6641.3	7630.5	8711.5	9845.6	11112.0	12400.8
-27.5°	2812.2	3357.4	3986.6	4709.3	5516.3	6418.3	7364.1	8378.7	9452.7	10591.3	11827.1
-30°	2737.8	3267.3	3861.0	4546.5	5320.9	6175.5	7084.9	8002.1	9019.5	10093.1	11225.7
-32.5°	2649.5	3158.3	3735.6	4388.6	5108.2	5894.5	6759.2	7631.4	8570.0	9563.6	10613.3
-35°	2555.1	3047.8	3596.0	4208.6	4874.9	5611.8	6401.5	7231.1	8094.3	9028.0	9951.5
-37.5°	2460.0	2921.3	3433.0	4018.1	4656.3	5311.0	6021.2	6810.5	7619.4	8444.9	9293.0
-40°	2353.1	2779.3	3270.7	3816.3	4394.2	5001.6	5667.1	6371.6	7123.7	7868.4	8628.5
-42.5°	2236.6	2648.3	3098.8	3585.6	4126.4	4691.7	5288.8	5948.1	6603.6	7280.0	7981.8
-45°	2126.1	2505.1	2915.8	3368.3	3846.3	4369.1	4926.4	5502.6	6092.7	6690.4	7329.3
-47.5°	2007.3	2356.5	2743.3	3135.5	3574.7	4047.9	4549.0	5067.5	5578.6	6126.7	6672.8
-50°	1883.6	2217.0	2550.2	2914.8	3304.9	3729.5	4184.1	4631.2	5098.5	5573.1	6065.3
-52.5°	1759.5	2069.2	2371.0	2690.1	3043.0	3420.1	3816.2	4215.7	4631.0	5048.7	5470.6
-55°	1625.5	1912.8	2186.8	2475.0	2784.4	3122.2	3457.6	3817.0	4177.0	4559.3	4905.9
-57.5°	1498.8	1743.8	1997.4	2260.7	2537.6	2825.2	3123.0	3423.7	3751.3	4080.9	4378.0
-60°	1373.8	1581.2	1802.6	2043.4	2291.2	2545.9	2792.7	3061.1	3338.3	3608.2	3880.0
-62.5°	1244.3	1427.8	1617.1	1821.4	2047.0	2266.4	2489.2	2715.3	2941.1	3180.6	3410.4
-65°	1116.4	1273.0	1440.8	1617.9	1799.2	1997.4	2193.3	2384.3	2586.0	2782.0	2972.3
-67.5°	982.9	1126.2	1270.0	1417.5	1579.7	1741.5	1904.4	2079.8	2250.2	2410.4	2571.7
-70°	863.5	978.9	1106.2	1236.3	1365.4	1498.2	1642.8	1787.8	1930.1	2066.6	2206.3
-72.5°	744.9	848.4	952.4	1056.7	1168.9	1280.7	1393.6	1507.4	1626.4	1745.5	1861.3
-75°	639.2	716.8	807.2	899.1	986.7	1072.2	1159.7	1256.4	1351.5	1445.0	1537.5
-77.5°	542.9	608.4	676.1	745.9	812.5	884.2	956.2	1028.3	1099.3	1168.7	1236.8
-80°	452.3	498.2	552.7	609.3	662.2	714.4	766.6	818.7	871.3	926.3	983.1
-82.5°	374.3	411.8	449.7	488.0	523.2	557.5	593.1	633.8	675.4	716.7	757.5
-85°	303.1	324.6	353.7	383.1	411.3	439.0	466.3	493.2	520.9	548.2	575.0
-87.5°	268.7	287.4	306.1	324.6	342.5	360.2	377.8	395.3	413.0	430.8	448.5
-90°	7.6	7.6	7.6	7.6	7.3	7.1	6.8	6.5	6.2	6.0	5.7



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	403.3	407.9	412.6	417.2	421.8	432.6	443.5	454.3	465.1	467.6	470.0
87.5°	15.1	15.2	15.2	15.2	15.2	17.6	20.1	22.6	25.2	24.9	24.6
85°	39.4	40.0	40.2	40.2	40.1	43.4	46.8	50.1	53.2	51.1	48.7
82.5°	62.8	63.9	65.0	66.1	67.3	70.8	74.2	77.5	80.5	81.5	82.5
80°	82.2	84.4	86.0	87.2	88.1	91.1	94.2	97.3	100.1	103.2	106.3
77.5°	101.1	101.7	101.3	100.3	98.7	99.2	99.9	100.3	100.3	101.9	103.7
75°	114.1	112.5	108.1	102.9	97.2	93.6	91.1	88.3	85.5	85.0	85.2
72.5°	116.9	111.0	103.6	94.5	85.6	79.3	75.1	71.1	67.2	65.3	64.2
70°	110.7	99.4	89.5	79.7	70.2	63.1	58.9	55.1	51.6	49.3	47.7
67.5°	99.7	85.7	75.3	65.2	55.9	48.6	44.9	41.6	38.5	36.2	34.6
65°	88.5	73.6	63.6	53.9	44.5	37.3	34.5	31.7	29.0	26.9	25.8
62.5°	82.3	66.7	56.3	47.8	39.3	30.9	28.0	25.2	22.3	20.1	19.2
60°	84.5	66.7	54.1	46.3	37.5	27.8	24.2	21.6	18.7	16.1	15.2
57.5°	97.8	78.3	59.5	56.4	47.5	33.3	34.6	40.3	36.1	24.9	23.6
55°	149.5	144.7	94.8	122.6	142.6	134.4	125.5	166.1	185.9	187.0	205.3
52.5°	297.2	332.3	319.3	334.5	416.9	450.3	445.9	518.5	556.2	551.0	570.7
50°	625.8	697.6	786.0	800.3	938.6	1034.5	1057.6	1141.7	1235.1	1270.8	1311.0
47.5°	1221.3	1389.6	1475.0	1571.2	1730.4	1904.8	2040.0	2161.0	2292.2	2381.9	2490.1
45°	1989.4	2108.3	2256.9	2480.5	2723.5	2951.1	3165.0	3359.9	3488.4	3602.9	3724.6
42.5°	2621.3	2811.2	3060.4	3394.0	3739.7	3973.4	4149.3	4337.1	4537.9	4728.7	4904.7
40°	3268.4	3488.5	3883.9	4261.8	4519.8	4745.3	4986.1	5241.0	5503.4	5753.8	6002.8
37.5°	3961.9	4287.2	4633.4	4963.7	5236.7	5450.0	5780.0	6062.3	6325.3	6698.2	7040.1
35°	4699.8	5053.3	5350.8	5728.6	6033.8	6297.0	6642.3	6997.8	7225.4	7736.9	8179.7
32.5°	5434.0	5845.9	6242.5	6601.4	6980.1	7385.9	7721.9	8209.6	8580.6	9069.8	9550.7
30°	6198.9	6763.7	7258.7	7652.5	8168.4	8693.0	9164.5	9738.8	10285.7	10740.9	11250.7
27.5°	7164.2	7792.1	8395.9	9002.7	9553.8	10208.8	10959.3	11566.8	12267.0	12763.4	13296.5
25°	8188.3	8936.4	9739.4	10521.6	11244.6	12091.9	12942.8	13685.0	14410.7	14982.7	15552.4
22.5°	9302.0	10206.5	11162.3	12146.9	13124.3	14052.6	14966.0	15884.6	16721.0	17507.3	18055.0
20°	10432.9	11437.4	12598.0	13784.5	14909.9	15957.7	17055.3	18216.8	19279.7	20190.8	20865.6
17.5°	11453.2	12713.1	13989.7	15291.4	16560.6	17855.6	19217.4	20583.5	21841.9	22909.0	23804.8
15°	12372.3	13799.8	15277.7	16746.3	18205.9	19696.9	21288.0	22760.0	24170.5	25394.3	26441.6
12.5°	13278.6	14803.4	16387.5	18034.1	19764.5	21378.9	22999.0	24586.1	26064.3	27486.8	28536.0
10°	14080.8	15727.1	17423.1	19187.6	20979.8	22731.2	24438.9	26093.4	27545.7	28888.9	30158.2
7.5°	14734.4	16500.1	18310.1	20166.0	22010.6	23784.1	25523.2	27176.6	28650.8	30027.2	31325.2
5°	15298.1	17170.8	19038.9	20888.4	22744.4	24583.9	26339.7	27970.0	29505.5	30935.9	32236.8
2.5°	15758.2	17710.9	19603.7	21425.3	23273.8	25156.7	26956.9	28531.8	30136.9	31591.7	32872.1
0°	16103.3	18074.5	19906.9	21744.7	23616.1	25520.1	27330.8	28873.7	30507.6	32062.5	33280.1
-2.5°	16292.1	18147.6	19971.5	21815.4	23743.2	25701.6	27509.9	29172.9	30797.4	32254.9	33386.9
-5°	16357.7	18183.0	20000.3	21877.4	23788.5	25716.2	27518.3	29185.7	30745.8	32109.0	33141.5
-7.5°	16313.7	18121.0	19920.1	21778.8	23677.7	25582.5	27355.6	28950.5	30452.9	31744.1	32729.4
-10°	16180.8	17931.0	19730.7	21558.8	23461.9	25342.4	27080.0	28518.9	29953.3	31164.7	32096.3
-12.5°	15961.2	17636.9	19411.8	21199.5	23066.6	24874.2	26493.3	27926.0	29207.8	30434.8	31250.2
-15°	15649.6	17265.2	18962.2	20712.7	22481.5	24230.2	25809.0	27193.8	28381.3	29349.2	30207.9
-17.5°	15258.8	16817.6	18443.7	20121.1	21763.7	23427.4	24890.5	26278.3	27420.5	28282.1	28948.5
-20°	14777.7	16290.5	17845.6	19447.0	20973.2	22388.2	23798.7	25089.0	26218.1	27060.6	27701.1



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14269.9	15697.2	17170.4	18614.5	20004.3	21334.4	22611.8	23796.2	24869.7	25666.4	26279.3
-25°	13692.2	15027.0	16389.1	17693.3	18962.6	20201.0	21358.9	22456.2	23393.4	24168.4	24737.4
-27.5°	13059.4	14302.3	15531.8	16744.6	17922.4	18992.9	20058.2	21048.8	21873.0	22585.7	23089.6
-30°	12368.0	13504.6	14656.8	15793.8	16812.6	17777.0	18723.5	19583.4	20338.9	20964.7	21416.6
-32.5°	11638.7	12677.1	13745.9	14774.0	15667.4	16537.5	17362.8	18116.6	18809.4	19362.3	19769.9
-35°	10884.8	11846.8	12806.6	13695.5	14528.2	15302.2	16013.4	16681.5	17255.4	17759.4	18158.9
-37.5°	10143.3	11009.7	11842.7	12618.9	13388.3	14098.1	14719.2	15305.4	15827.2	16247.6	16597.9
-40°	9415.9	10183.0	10892.1	11582.9	12270.5	12871.3	13435.4	13940.9	14402.7	14804.3	15115.5
-42.5°	8692.9	9353.4	9965.6	10587.3	11181.6	11702.7	12193.9	12631.9	13032.6	13392.5	13694.3
-45°	7967.3	8532.2	9077.0	9623.6	10117.2	10581.3	11008.2	11393.0	11751.0	12054.1	12301.5
-47.5°	7226.2	7727.4	8222.3	8695.9	9105.4	9506.4	9873.9	10219.6	10542.2	10814.7	11033.3
-50°	6518.6	6961.5	7404.7	7796.2	8140.5	8474.4	8785.5	9119.3	9417.8	9666.1	9846.7
-52.5°	5854.2	6254.8	6635.7	6956.3	7247.4	7508.1	7747.1	8057.1	8338.1	8582.0	8742.1
-55°	5249.2	5592.0	5918.6	6183.5	6426.5	6644.0	6860.8	7110.0	7336.9	7539.8	7673.7
-57.5°	4679.7	4970.3	5241.9	5465.0	5667.7	5849.5	6050.9	6259.2	6445.3	6605.4	6713.2
-60°	4139.8	4387.2	4612.5	4795.9	4964.4	5117.4	5309.1	5490.9	5651.7	5782.3	5862.8
-62.5°	3630.4	3852.3	4027.5	4175.0	4309.6	4438.5	4606.0	4763.1	4908.1	5023.9	5091.3
-65°	3164.1	3358.4	3488.6	3605.4	3711.4	3827.6	3970.0	4097.7	4211.0	4297.0	4355.7
-67.5°	2739.0	2892.7	2995.4	3088.2	3179.0	3278.4	3399.3	3510.8	3612.8	3683.6	3727.4
-70°	2343.0	2461.4	2544.7	2623.6	2699.5	2784.7	2883.7	2975.9	3061.0	3116.0	3150.9
-72.5°	1973.5	2063.8	2132.6	2200.5	2261.7	2334.8	2415.5	2491.1	2561.3	2602.7	2629.3
-75°	1628.9	1698.1	1754.4	1806.5	1854.3	1915.8	1981.2	2042.6	2099.8	2131.3	2151.8
-77.5°	1309.3	1362.2	1404.6	1443.5	1478.7	1527.4	1577.7	1625.0	1669.1	1697.2	1719.8
-80°	1038.6	1070.6	1096.6	1120.9	1143.3	1179.7	1216.6	1251.4	1284.1	1302.4	1317.0
-82.5°	797.8	817.2	832.8	846.4	858.1	883.4	908.7	932.7	955.3	967.1	977.2
-85°	601.3	611.8	620.6	628.4	635.3	653.0	670.4	687.3	703.5	706.9	709.3
-87.5°	466.2	471.9	477.3	482.5	487.6	500.6	513.7	526.6	539.4	541.6	543.7
-90°	5.4	5.1	4.9	4.6	4.3	4.1	3.8	3.6	3.3	3.0	2.8



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	472.5	474.9	473.3	471.7	473.3	474.9	472.5	470.0	467.6	465.1	454.3
87.5°	24.2	23.8	23.9	23.9	23.9	23.8	24.2	24.6	24.9	25.2	22.6
85°	46.0	43.3	41.2	39.0	41.2	43.3	46.0	48.7	51.1	53.2	50.1
82.5°	83.3	84.1	83.9	83.5	83.9	84.1	83.3	82.5	81.5	80.5	77.5
80°	109.3	112.3	113.2	113.8	113.2	112.3	109.3	106.3	103.2	100.1	97.3
77.5°	105.5	107.3	107.9	108.4	107.9	107.3	105.5	103.7	101.9	100.3	100.3
75°	85.6	86.1	85.8	85.7	85.8	86.1	85.6	85.2	85.0	85.5	88.3
72.5°	63.2	62.5	62.0	61.8	62.0	62.5	63.2	64.2	65.3	67.2	71.1
70°	46.3	45.1	44.1	43.4	44.1	45.1	46.3	47.7	49.3	51.6	55.1
67.5°	33.1	32.0	31.1	30.4	31.1	32.0	33.1	34.6	36.2	38.5	41.6
65°	24.9	24.3	23.5	22.8	23.5	24.3	24.9	25.8	26.9	29.0	31.7
62.5°	18.3	17.7	17.4	17.3	17.4	17.7	18.3	19.2	20.1	22.3	25.2
60°	14.2	13.4	13.1	13.0	13.1	13.4	14.2	15.2	16.1	18.7	21.6
57.5°	21.3	18.2	16.4	15.2	16.4	18.2	21.3	23.6	24.9	36.1	40.3
55°	215.1	215.7	220.0	224.4	220.0	215.7	215.1	205.3	187.0	185.9	166.1
52.5°	585.7	583.8	578.5	568.1	578.5	583.8	585.7	570.7	551.0	556.2	518.5
50°	1335.2	1316.3	1275.5	1217.6	1275.5	1316.3	1335.2	1311.0	1270.8	1235.1	1141.7
47.5°	2635.9	2744.9	2820.4	2853.8	2820.4	2744.9	2635.9	2490.1	2381.9	2292.2	2161.0
45°	3851.2	3915.9	3953.6	3983.5	3953.6	3915.9	3851.2	3724.6	3602.9	3488.4	3359.9
42.5°	5054.5	5157.0	5207.5	5199.0	5207.5	5157.0	5054.5	4904.7	4728.7	4537.9	4337.1
40°	6242.1	6456.6	6632.7	6759.2	6632.7	6456.6	6242.1	6002.8	5753.8	5503.4	5241.0
37.5°	7378.4	7697.9	7967.8	8163.3	7967.8	7697.9	7378.4	7040.1	6698.2	6325.3	6062.3
35°	8541.9	8823.7	9008.6	9089.3	9008.6	8823.7	8541.9	8179.7	7736.9	7225.4	6997.8
32.5°	9857.4	10014.0	10047.2	10131.3	10047.2	10014.0	9857.4	9550.7	9069.8	8580.6	8209.6
30°	11561.1	11723.8	11727.7	11833.5	11727.7	11723.8	11561.1	11250.7	10740.9	10285.7	9738.8
27.5°	13716.8	13990.8	14079.8	14173.4	14079.8	13990.8	13716.8	13296.5	12763.4	12267.0	11566.8
25°	16025.1	16280.6	16362.4	16331.0	16362.4	16280.6	16025.1	15552.4	14982.7	14410.7	13685.0
22.5°	18616.0	18947.2	19067.7	19007.0	19067.7	18947.2	18616.0	18055.0	17507.3	16721.0	15884.6
20°	21515.8	21993.9	22246.5	22360.6	22246.5	21993.9	21515.8	20865.6	20190.8	19279.7	18216.8
17.5°	24568.1	25272.5	25596.1	25691.4	25596.1	25272.5	24568.1	23804.8	22909.0	21841.9	20583.5
15°	27344.8	27959.9	28379.4	28595.0	28379.4	27959.9	27344.8	26441.6	25394.3	24170.5	22760.0
12.5°	29491.8	30275.8	30929.2	31279.6	30929.2	30275.8	29491.8	28536.0	27486.8	26064.3	24586.1
10°	31242.0	32033.5	32627.7	32915.8	32627.7	32033.5	31242.0	30158.2	28888.9	27545.7	26093.4
7.5°	32452.8	33188.4	33649.7	33838.5	33649.7	33188.4	32452.8	31325.2	30027.2	28650.8	27176.6
5°	33235.5	33938.9	34279.8	34402.3	34279.8	33938.9	33235.5	32236.8	30935.9	29505.5	27970.0
2.5°	33799.0	34355.6	34628.6	34646.2	34628.6	34355.6	33799.0	32872.1	31591.7	30136.9	28531.8
0°	34056.4	34557.3	34856.6	34851.2	34856.6	34557.3	34056.4	33280.1	32062.5	30507.6	28873.7
-2.5°	34068.8	34504.7	34717.3	34597.4	34717.3	34504.7	34068.8	33386.9	32254.9	30797.4	29172.9
-5°	33825.9	34252.4	34411.8	34375.2	34411.8	34252.4	33825.9	33141.5	32109.0	30745.8	29185.7
-7.5°	33389.7	33768.1	33930.8	33936.0	33930.8	33768.1	33389.7	32729.4	31744.1	30452.9	28950.5
-10°	32724.4	33040.6	33226.9	33173.8	33226.9	33040.6	32724.4	32096.3	31164.7	29953.3	28518.9
-12.5°	31844.4	32156.5	32314.5	32282.6	32314.5	32156.5	31844.4	31250.2	30434.8	29207.8	27926.0
-15°	30791.7	31088.3	31236.4	31222.2	31236.4	31088.3	30791.7	30207.9	29349.2	28381.3	27193.8
-17.5°	29488.4	29785.7	29937.3	29957.9	29937.3	29785.7	29488.4	28948.5	28282.1	27420.5	26278.3
-20°	28122.5	28384.8	28523.6	28525.6	28523.6	28384.8	28122.5	27701.1	27060.6	26218.1	25089.0



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	26706.7	27001.1	27165.9	27141.0	27165.9	27001.1	26706.7	26279.3	25666.4	24869.7	23796.2
-25°	25128.6	25423.7	25583.9	25577.5	25583.9	25423.7	25128.6	24737.4	24168.4	23393.4	22456.2
-27.5°	23443.8	23727.5	23882.1	23901.3	23882.1	23727.5	23443.8	23089.6	22585.7	21873.0	21048.8
-30°	21746.8	22026.5	22178.0	22190.3	22178.0	22026.5	21746.8	21416.6	20964.7	20338.9	19583.4
-32.5°	20084.0	20336.5	20476.3	20491.3	20476.3	20336.5	20084.0	19769.9	19362.3	18809.4	18116.6
-35°	18461.6	18683.5	18809.0	18849.7	18809.0	18683.5	18461.6	18158.9	17759.4	17255.4	16681.5
-37.5°	16882.6	17083.2	17204.5	17278.7	17204.5	17083.2	16882.6	16597.9	16247.6	15827.2	15305.4
-40°	15357.6	15533.3	15630.0	15631.7	15630.0	15533.3	15357.6	15115.5	14804.3	14402.7	13940.9
-42.5°	13917.8	14065.7	14139.7	14140.8	14139.7	14065.7	13917.8	13694.3	13392.5	13032.6	12631.9
-45°	12500.7	12645.4	12747.8	12812.6	12747.8	12645.4	12500.7	12301.5	12054.1	11751.0	11393.0
-47.5°	11200.1	11318.7	11400.0	11444.3	11400.0	11318.7	11200.1	11033.3	10814.7	10542.2	10219.6
-50°	9979.1	10073.9	10143.3	10184.4	10143.3	10073.9	9979.1	9846.7	9666.1	9417.8	9119.3
-52.5°	8850.8	8920.0	8944.9	8928.8	8944.9	8920.0	8850.8	8742.1	8582.0	8338.1	8057.1
-55°	7774.0	7843.0	7870.6	7860.8	7870.6	7843.0	7774.0	7673.7	7539.8	7336.9	7110.0
-57.5°	6798.0	6859.2	6908.2	6938.1	6908.2	6859.2	6798.0	6713.2	6605.4	6445.3	6259.2
-60°	5926.2	5971.4	6002.2	6014.4	6002.2	5971.4	5926.2	5862.8	5782.3	5651.7	5490.9
-62.5°	5138.6	5166.8	5188.7	5197.9	5188.7	5166.8	5138.6	5091.3	5023.9	4908.1	4763.1
-65°	4402.4	4436.8	4432.7	4408.6	4432.7	4436.8	4402.4	4355.7	4297.0	4211.0	4097.7
-67.5°	3760.5	3782.9	3802.1	3812.2	3802.1	3782.9	3760.5	3727.4	3683.6	3612.8	3510.8
-70°	3177.6	3195.9	3202.8	3200.7	3202.8	3195.9	3177.6	3150.9	3116.0	3061.0	2975.9
-72.5°	2649.3	2662.7	2665.4	2660.8	2665.4	2662.7	2649.3	2629.3	2602.7	2561.3	2491.1
-75°	2166.3	2175.2	2179.6	2179.3	2179.6	2175.2	2166.3	2151.8	2131.3	2099.8	2042.6
-77.5°	1738.6	1753.6	1747.2	1735.9	1747.2	1753.6	1738.6	1719.8	1697.2	1669.1	1625.0
-80°	1328.8	1338.0	1333.0	1325.0	1333.0	1338.0	1328.8	1317.0	1302.4	1284.1	1251.4
-82.5°	985.9	993.1	984.9	974.7	984.9	993.1	985.9	977.2	967.1	955.3	932.7
-85°	711.1	712.1	711.5	710.2	711.5	712.1	711.1	709.3	706.9	703.5	687.3
-87.5°	545.5	547.2	545.8	544.3	545.8	547.2	545.5	543.7	541.6	539.4	526.6
-90°	2.5	2.2	2.8	3.3	2.8	2.2	2.5	2.8	3.0	3.3	3.6



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	443.5	432.6	421.8	417.2	412.6	407.9	403.3	388.7	374.1	359.4	344.8
87.5°	20.1	17.6	15.2	15.2	15.2	15.2	15.1	14.0	13.0	12.0	11.1
85°	46.8	43.4	40.1	40.2	40.2	40.0	39.4	36.3	33.2	30.1	26.9
82.5°	74.2	70.8	67.3	66.1	65.0	63.9	62.8	59.7	56.4	53.0	49.4
80°	94.2	91.1	88.1	87.2	86.0	84.4	82.2	78.8	75.0	71.1	66.7
77.5°	99.9	99.2	98.7	100.3	101.3	101.7	101.1	98.3	94.5	90.2	84.9
75°	91.1	93.6	97.2	102.9	108.1	112.5	114.1	113.1	111.2	108.2	103.0
72.5°	75.1	79.3	85.6	94.5	103.6	111.0	116.9	121.3	123.9	124.5	120.4
70°	58.9	63.1	70.2	79.7	89.5	99.4	110.7	121.8	131.5	136.5	134.0
67.5°	44.9	48.6	55.9	65.2	75.3	85.7	99.7	114.2	127.0	137.7	142.1
65°	34.5	37.3	44.5	53.9	63.6	73.6	88.5	103.6	118.9	133.7	143.6
62.5°	28.0	30.9	39.3	47.8	56.3	66.7	82.3	98.1	112.6	127.0	142.2
60°	24.2	27.8	37.5	46.3	54.1	66.7	84.5	99.5	111.4	131.2	147.4
57.5°	34.6	33.3	47.5	56.4	59.5	78.3	97.8	109.9	122.1	148.2	161.9
55°	125.5	134.4	142.6	122.6	94.8	144.7	149.5	138.7	161.3	181.9	201.0
52.5°	445.9	450.3	416.9	334.5	319.3	332.3	297.2	283.7	269.1	292.0	279.9
50°	1057.6	1034.5	938.6	800.3	786.0	697.6	625.8	548.1	548.9	515.7	443.2
47.5°	2040.0	1904.8	1730.4	1571.2	1475.0	1389.6	1221.3	1000.5	986.0	864.6	754.7
45°	3165.0	2951.1	2723.5	2480.5	2256.9	2108.3	1989.4	1766.5	1551.6	1406.6	1156.4
42.5°	4149.3	3973.4	3739.7	3394.0	3060.4	2811.2	2621.3	2437.4	2215.3	2005.0	1756.2
40°	4986.1	4745.3	4519.8	4261.8	3883.9	3488.5	3268.4	3027.0	2799.7	2562.2	2310.3
37.5°	5780.0	5450.0	5236.7	4963.7	4633.4	4287.2	3961.9	3667.3	3349.5	3082.9	2796.5
35°	6642.3	6297.0	6033.8	5728.6	5350.8	5053.3	4699.8	4331.8	3974.4	3609.2	3282.3
32.5°	7721.9	7385.9	6980.1	6601.4	6242.5	5845.9	5434.0	5000.5	4621.3	4195.5	3780.0
30°	9164.5	8693.0	8168.4	7652.5	7258.7	6763.7	6198.9	5762.3	5307.3	4803.3	4293.2
27.5°	10959.3	10208.8	9553.8	9002.7	8395.9	7792.1	7164.2	6568.2	6028.1	5450.4	4856.5
25°	12942.8	12091.9	11244.6	10521.6	9739.4	8936.4	8188.3	7469.9	6796.3	6119.3	5390.5
22.5°	14966.0	14052.6	13124.3	12146.9	11162.3	10206.5	9302.0	8384.0	7565.3	6765.1	5959.7
20°	17055.3	15957.7	14909.9	13784.5	12598.0	11437.4	10432.9	9348.8	8350.2	7420.3	6524.3
17.5°	19217.4	17855.6	16560.6	15291.4	13989.7	12713.1	11453.2	10256.9	9127.4	8063.7	7070.9
15°	21288.0	19696.9	18205.9	16746.3	15277.7	13799.8	12372.3	11078.9	9892.8	8718.5	7608.1
12.5°	22999.0	21378.9	19764.5	18034.1	16387.5	14803.4	13278.6	11868.5	10575.6	9277.7	8061.5
10°	24438.9	22731.2	20979.8	19187.6	17423.1	15727.1	14080.8	12510.6	11068.6	9731.3	8466.7
7.5°	25523.2	23784.1	22010.6	20166.0	18310.1	16500.1	14734.4	13057.7	11507.5	10114.6	8821.9
5°	26339.7	24583.9	22744.4	20888.4	19038.9	17170.8	15298.1	13529.9	11885.1	10428.8	9124.7
2.5°	26956.9	25156.7	23273.8	21425.3	19603.7	17710.9	15758.2	13913.8	12237.7	10711.6	9323.4
0°	27330.8	25520.1	23616.1	21744.7	19906.9	18074.5	16103.3	14197.2	12536.1	10941.2	9467.7
-2.5°	27509.9	25701.6	23743.2	21815.4	19971.5	18147.6	16292.1	14441.6	12724.4	11159.1	9668.6
-5°	27518.3	25716.2	23788.5	21877.4	20000.3	18183.0	16357.7	14567.8	12851.2	11301.7	9808.4
-7.5°	27355.6	25582.5	23677.7	21778.8	19920.1	18121.0	16313.7	14587.5	12926.9	11355.0	9877.9
-10°	27080.0	25342.4	23461.9	21558.8	19730.7	17931.0	16180.8	14533.5	12909.1	11339.0	9888.1
-12.5°	26493.3	24874.2	23066.6	21199.5	19411.8	17636.9	15961.2	14395.7	12794.4	11255.4	9839.9
-15°	25809.0	24230.2	22481.5	20712.7	18962.2	17265.2	15649.6	14116.9	12560.7	11100.2	9734.4
-17.5°	24890.5	23427.4	21763.7	20121.1	18443.7	16817.6	15258.8	13762.7	12290.8	10877.3	9539.3
-20°	23798.7	22388.2	20973.2	19447.0	17845.6	16290.5	14777.7	13365.9	11968.9	10593.3	9308.0



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22611.8	21334.4	20004.3	18614.5	17170.4	15697.2	14269.9	12916.1	11584.6	10231.5	9029.8
-25°	21358.9	20201.0	18962.6	17693.3	16389.1	15027.0	13692.2	12400.8	11112.0	9845.6	8711.5
-27.5°	20058.2	18992.9	17922.4	16744.6	15531.8	14302.3	13059.4	11827.1	10591.3	9452.7	8378.7
-30°	18723.5	17777.0	16812.6	15793.8	14656.8	13504.6	12368.0	11225.7	10093.1	9019.5	8002.1
-32.5°	17362.8	16537.5	15667.4	14774.0	13745.9	12677.1	11638.7	10613.3	9563.6	8570.0	7631.4
-35°	16013.4	15302.2	14528.2	13695.5	12806.6	11846.8	10884.8	9951.5	9028.0	8094.3	7231.1
-37.5°	14719.2	14098.1	13388.3	12618.9	11842.7	11009.7	10143.3	9293.0	8444.9	7619.4	6810.5
-40°	13435.4	12871.3	12270.5	11582.9	10892.1	10183.0	9415.9	8628.5	7868.4	7123.7	6371.6
-42.5°	12193.9	11702.7	11181.6	10587.3	9965.6	9353.4	8692.9	7981.8	7280.0	6603.6	5948.1
-45°	11008.2	10581.3	10117.2	9623.6	9077.0	8532.2	7967.3	7329.3	6690.4	6092.7	5502.6
-47.5°	9873.9	9506.4	9105.4	8695.9	8222.3	7727.4	7226.2	6672.8	6126.7	5578.6	5067.5
-50°	8785.5	8474.4	8140.5	7796.2	7404.7	6961.5	6518.6	6065.3	5573.1	5098.5	4631.2
-52.5°	7747.1	7508.1	7247.4	6956.3	6635.7	6254.8	5854.2	5470.6	5048.7	4631.0	4215.7
-55°	6860.8	6644.0	6426.5	6183.5	5918.6	5592.0	5249.2	4905.9	4559.3	4177.0	3817.0
-57.5°	6050.9	5849.5	5667.7	5465.0	5241.9	4970.3	4679.7	4378.0	4080.9	3751.3	3423.7
-60°	5309.1	5117.4	4964.4	4795.9	4612.5	4387.2	4139.8	3880.0	3608.2	3338.3	3061.1
-62.5°	4606.0	4438.5	4309.6	4175.0	4027.5	3852.3	3630.4	3410.4	3180.6	2941.1	2715.3
-65°	3970.0	3827.6	3711.4	3605.4	3488.6	3358.4	3164.1	2972.3	2782.0	2586.0	2384.3
-67.5°	3399.3	3278.4	3179.0	3088.2	2995.4	2892.7	2739.0	2571.7	2410.4	2250.2	2079.8
-70°	2883.7	2784.7	2699.5	2623.6	2544.7	2461.4	2343.0	2206.3	2066.6	1930.1	1787.8
-72.5°	2415.5	2334.8	2261.7	2200.5	2132.6	2063.8	1973.5	1861.3	1745.5	1626.4	1507.4
-75°	1981.2	1915.8	1854.3	1806.5	1754.4	1698.1	1628.9	1537.5	1445.0	1351.5	1256.4
-77.5°	1577.7	1527.4	1478.7	1443.5	1404.6	1362.2	1309.3	1236.8	1168.7	1099.3	1028.3
-80°	1216.6	1179.7	1143.3	1120.9	1096.6	1070.6	1038.6	983.1	926.3	871.3	818.7
-82.5°	908.7	883.4	858.1	846.4	832.8	817.2	797.8	757.5	716.7	675.4	633.8
-85°	670.4	653.0	635.3	628.4	620.6	611.8	601.3	575.0	548.2	520.9	493.2
-87.5°	513.7	500.6	487.6	482.5	477.3	471.9	466.2	448.5	430.8	413.0	395.3
-90°	3.8	4.1	4.3	4.6	4.9	5.1	5.4	5.7	6.0	6.2	6.5



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	329.1	313.4	297.6	281.9	265.9	249.9	233.9	217.9	199.8	181.6	163.5
87.5°	11.9	12.6	13.3	13.8	13.6	13.3	13.0	12.6	13.2	13.5	13.7
85°	25.2	23.8	22.6	21.8	20.5	18.9	18.3	17.7	18.5	18.9	19.0
82.5°	45.7	41.7	38.0	34.9	34.0	32.6	30.5	28.0	26.6	24.8	24.4
80°	61.3	56.1	51.1	47.2	46.7	46.3	44.1	41.4	39.2	36.5	33.3
77.5°	77.7	70.6	63.4	58.3	56.7	55.2	54.1	53.6	51.9	48.3	44.0
75°	94.9	86.6	78.2	72.5	69.2	64.1	61.8	62.1	63.9	60.3	54.7
72.5°	112.6	103.8	94.0	88.4	86.6	82.0	74.5	71.7	76.4	74.8	66.7
70°	128.4	121.2	111.7	109.2	107.0	101.0	94.1	92.0	90.0	89.9	82.8
67.5°	142.9	136.4	128.1	131.6	131.3	125.8	115.1	116.1	115.4	106.1	99.5
65°	147.4	147.9	146.0	155.2	157.2	152.3	142.1	143.8	141.8	132.7	116.7
62.5°	152.1	156.2	163.5	180.3	185.4	181.6	172.5	178.3	171.1	160.0	140.5
60°	157.2	165.1	185.1	206.2	215.5	213.0	211.0	215.1	208.0	188.3	167.5
57.5°	174.5	177.9	213.6	238.0	248.4	247.2	254.2	258.2	246.7	224.0	195.4
55°	202.8	216.3	256.2	278.6	288.0	284.9	304.0	306.3	288.8	262.6	225.3
52.5°	258.4	289.4	323.7	335.9	337.3	337.9	363.8	358.0	338.8	302.4	262.9
50°	383.0	410.2	428.4	421.3	398.7	418.1	431.0	423.0	391.4	345.8	302.3
47.5°	645.9	634.6	587.8	536.7	495.8	512.6	520.2	494.8	446.7	396.6	342.5
45°	1050.9	957.3	831.4	721.9	635.1	644.6	625.3	572.4	518.1	451.5	383.5
42.5°	1491.3	1350.2	1189.9	931.6	849.6	798.3	741.9	676.7	593.8	508.2	429.9
40°	2008.4	1765.5	1579.9	1301.5	1078.3	966.2	892.0	792.7	673.1	570.0	480.3
37.5°	2497.2	2199.7	1967.2	1650.4	1330.5	1178.6	1054.8	916.9	757.9	638.9	531.4
35°	2948.9	2621.5	2297.7	1965.2	1631.0	1391.8	1226.8	1055.4	856.7	707.3	583.1
32.5°	3390.7	3010.4	2634.2	2262.1	1907.1	1605.2	1414.1	1177.4	951.5	774.8	635.2
30°	3845.1	3401.3	2969.2	2549.3	2164.3	1843.0	1583.0	1291.8	1042.1	841.4	688.4
27.5°	4301.3	3787.0	3305.2	2845.1	2419.6	2060.7	1712.1	1398.5	1128.4	911.1	743.9
25°	4769.0	4193.7	3651.9	3140.8	2664.4	2228.3	1835.9	1497.8	1216.4	984.5	797.9
22.5°	5244.4	4606.0	3989.5	3429.0	2867.7	2397.1	1965.7	1602.1	1301.4	1053.9	850.2
20°	5691.8	5012.2	4305.3	3660.3	3068.4	2571.8	2103.7	1700.6	1379.7	1119.2	900.8
17.5°	6123.2	5377.7	4585.8	3886.8	3262.9	2732.4	2238.2	1792.7	1451.4	1180.3	949.2
15°	6569.7	5697.9	4857.2	4095.0	3440.3	2878.8	2367.8	1878.2	1516.5	1237.3	989.9
12.5°	6969.4	6009.0	5110.5	4284.0	3600.3	3010.9	2491.1	1956.6	1575.1	1287.4	1021.7
10°	7325.1	6305.6	5342.9	4452.9	3742.4	3128.8	2606.3	2036.5	1644.0	1332.5	1051.3
7.5°	7636.4	6582.1	5551.3	4600.8	3867.7	3226.8	2693.6	2127.5	1712.2	1374.2	1078.2
5°	7892.5	6810.8	5751.5	4771.4	3983.5	3306.3	2760.4	2210.8	1776.6	1412.1	1102.1
2.5°	8059.6	6966.6	5930.7	4930.0	4082.8	3373.6	2811.2	2285.7	1835.8	1445.8	1122.7
0°	8182.9	7081.3	6076.2	5065.6	4163.5	3427.3	2848.3	2351.7	1888.8	1474.6	1139.6
-2.5°	8341.8	7193.5	6167.0	5173.1	4276.4	3522.6	2911.3	2393.5	1925.9	1510.6	1167.6
-5°	8451.2	7267.0	6226.1	5253.9	4367.6	3601.0	2961.7	2425.7	1955.7	1540.9	1191.2
-7.5°	8527.7	7326.4	6265.5	5307.6	4436.1	3660.3	2998.2	2448.2	1978.1	1565.5	1210.3
-10°	8557.1	7358.4	6286.8	5323.5	4457.7	3688.4	3019.8	2461.0	1993.3	1583.9	1224.6
-12.5°	8533.8	7343.1	6270.5	5310.5	4451.0	3687.8	3028.0	2471.1	2001.8	1596.0	1233.8
-15°	8457.5	7278.8	6215.3	5268.4	4420.1	3668.9	3022.6	2473.5	2005.4	1600.2	1237.9
-17.5°	8321.4	7164.0	6120.3	5196.8	4364.4	3631.6	3003.6	2464.4	2000.1	1595.6	1235.0
-20°	8129.0	7013.3	5990.7	5095.8	4283.9	3576.0	2971.1	2443.3	1985.8	1583.9	1225.9



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	7899.4	6842.0	5866.4	4981.9	4189.9	3502.1	2925.2	2410.2	1962.4	1565.0	1211.9
-25°	7630.5	6641.3	5709.2	4857.9	4091.4	3436.8	2872.4	2365.0	1929.6	1538.8	1193.0
-27.5°	7364.1	6418.3	5516.3	4709.3	3986.6	3357.4	2812.2	2320.5	1890.0	1505.2	1169.3
-30°	7084.9	6175.5	5320.9	4546.5	3861.0	3267.3	2737.8	2265.6	1846.2	1469.8	1140.7
-32.5°	6759.2	5894.5	5108.2	4388.6	3735.6	3158.3	2649.5	2199.6	1793.6	1432.0	1113.4
-35°	6401.5	5611.8	4874.9	4208.6	3596.0	3047.8	2555.1	2122.7	1732.0	1388.7	1083.9
-37.5°	6021.2	5311.0	4656.3	4018.1	3433.0	2921.3	2460.0	2042.9	1661.7	1339.9	1050.3
-40°	5667.1	5001.6	4394.2	3816.3	3270.7	2779.3	2353.1	1958.9	1595.8	1285.7	1012.7
-42.5°	5288.8	4691.7	4126.4	3585.6	3098.8	2648.3	2236.6	1866.9	1530.5	1234.3	971.3
-45°	4926.4	4369.1	3846.3	3368.3	2915.8	2505.1	2126.1	1769.6	1457.4	1182.3	928.9
-47.5°	4549.0	4047.9	3574.7	3135.5	2743.3	2356.5	2007.3	1677.9	1376.6	1125.9	886.4
-50°	4184.1	3729.5	3304.9	2914.8	2550.2	2217.0	1883.6	1577.0	1304.2	1062.8	839.8
-52.5°	3816.2	3420.1	3043.0	2690.1	2371.0	2069.2	1759.5	1469.3	1225.4	998.9	789.1
-55°	3457.6	3122.2	2784.4	2475.0	2186.8	1912.8	1625.5	1372.4	1140.6	932.4	735.7
-57.5°	3123.0	2825.2	2537.6	2260.7	1997.4	1743.8	1498.8	1268.7	1056.5	861.4	688.1
-60°	2792.7	2545.9	2291.2	2043.4	1802.6	1581.2	1373.8	1162.0	969.3	788.9	636.1
-62.5°	2489.2	2266.4	2047.0	1821.4	1617.1	1427.8	1244.3	1056.5	877.3	723.1	580.6
-65°	2193.3	1997.4	1799.2	1617.9	1440.8	1273.0	1116.4	945.9	793.6	654.2	526.5
-67.5°	1904.4	1741.5	1579.7	1417.5	1270.0	1126.2	982.9	843.6	709.5	582.2	480.0
-70°	1642.8	1498.2	1365.4	1236.3	1106.2	978.9	863.5	742.9	622.2	524.5	431.7
-72.5°	1393.6	1280.7	1168.9	1056.7	952.4	848.4	744.9	643.7	552.6	465.3	381.9
-75°	1159.7	1072.2	986.7	899.1	807.2	716.8	639.2	561.8	481.5	404.3	339.8
-77.5°	956.2	884.2	812.5	745.9	676.1	608.4	542.9	477.9	412.9	354.9	299.9
-80°	766.6	714.4	662.2	609.3	552.7	498.2	452.3	405.9	354.7	305.7	259.0
-82.5°	593.1	557.5	523.2	488.0	449.7	411.8	374.3	336.9	295.3	255.4	224.7
-85°	466.3	439.0	411.3	383.1	353.7	324.6	303.1	281.3	255.5	229.9	204.6
-87.5°	377.8	360.2	342.5	324.6	306.1	287.4	268.7	249.8	227.8	205.9	184.2
-90°	6.8	7.1	7.3	7.6	7.6	7.6	7.6	7.6	7.9	8.2	8.4



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	145.3	120.4	95.4	70.5	45.5	26.6	7.6
87.5°	13.7	13.3	12.7	12.0	11.1	9.7	7.6
85°	18.8	18.0	16.8	15.3	13.4	11.2	7.6
82.5°	23.9	22.6	20.8	18.6	15.8	12.7	7.6
80°	29.5	27.3	24.9	21.8	18.2	14.2	7.6
77.5°	39.3	33.8	28.9	25.1	20.5	15.7	7.6
75°	49.3	43.8	33.9	28.4	22.9	17.2	7.6
72.5°	59.5	53.9	43.3	31.6	25.3	18.7	7.6
70°	70.8	64.2	52.8	35.8	27.8	20.1	7.6
67.5°	88.2	74.7	62.3	43.7	30.2	21.6	7.6
65°	106.0	88.4	71.9	51.7	32.7	23.1	7.6
62.5°	124.3	105.5	81.6	59.7	35.2	24.5	7.6
60°	143.1	122.7	91.3	67.6	37.7	25.9	7.6
57.5°	169.0	140.3	106.2	75.5	43.4	27.3	7.6
55°	196.2	158.1	121.3	83.4	49.1	28.7	7.6
52.5°	224.0	177.2	136.5	91.2	54.8	30.1	7.6
50°	252.2	201.5	151.8	98.9	60.3	31.5	7.6
47.5°	281.9	226.0	167.0	107.6	65.7	32.8	7.6
45°	317.4	250.5	182.2	119.1	71.0	34.1	7.6
42.5°	353.1	275.1	197.4	130.4	76.2	35.4	7.6
40°	389.1	299.7	214.6	141.6	81.3	36.6	7.6
37.5°	425.1	324.2	233.7	152.5	86.2	37.8	7.6
35°	461.2	351.7	252.5	163.1	90.9	39.0	7.6
32.5°	499.1	380.3	270.9	173.2	95.5	40.1	7.6
30°	541.3	408.4	288.9	183.0	99.9	41.2	7.6
27.5°	583.0	435.9	305.3	192.3	104.1	42.3	7.6
25°	624.0	462.8	320.8	201.2	108.1	43.3	7.6
22.5°	664.1	487.6	335.5	209.6	111.9	44.2	7.6
20°	703.1	508.2	349.3	217.4	115.4	45.1	7.6
17.5°	733.8	527.3	362.1	224.8	118.8	45.9	7.6
15°	757.6	544.7	374.1	231.5	121.8	46.7	7.6
12.5°	778.6	560.6	385.0	237.7	124.6	47.4	7.6
10°	796.9	574.7	394.9	243.3	127.2	48.1	7.6
7.5°	812.4	587.1	403.6	248.3	129.4	48.6	7.6
5°	825.2	597.8	411.2	252.6	131.4	49.1	7.6
2.5°	835.2	606.7	417.7	256.2	133.1	49.6	7.6
0°	842.5	613.7	422.9	259.1	134.4	49.9	7.6
-2.5°	862.8	625.1	429.8	263.0	136.5	50.9	7.6
-5°	880.1	634.6	435.4	266.2	138.2	51.8	7.6
-7.5°	894.1	642.1	439.6	268.6	139.6	52.6	7.6
-10°	904.7	647.3	442.4	270.3	140.7	53.3	7.6
-12.5°	911.6	650.4	443.8	271.1	141.4	53.9	7.6
-15°	914.6	651.1	443.6	271.1	141.8	54.5	7.6
-17.5°	913.3	649.4	441.9	270.3	141.8	54.9	7.6
-20°	908.3	645.3	438.7	268.7	141.5	55.2	7.6



REPORT NUMBER: P701434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	900.3	638.6	433.8	266.2	140.8	55.5	7.6
-25°	888.8	632.0	427.3	262.8	139.8	55.6	7.6
-27.5°	873.8	623.9	419.2	258.6	138.4	55.7	7.6
-30°	855.2	613.1	409.8	253.5	136.7	55.6	7.6
-32.5°	833.2	599.5	401.1	247.5	134.6	55.4	7.6
-35°	812.6	583.2	390.8	240.7	132.2	55.2	7.6
-37.5°	790.6	565.8	378.7	233.1	129.4	54.8	7.6
-40°	765.1	549.0	364.9	224.6	126.3	54.3	7.6
-42.5°	736.0	529.8	352.1	215.8	122.9	53.8	7.6
-45°	703.4	508.4	340.6	207.1	119.1	53.1	7.6
-47.5°	667.5	484.7	327.7	197.6	115.0	52.3	7.6
-50°	634.8	458.9	313.5	190.8	110.6	51.4	7.6
-52.5°	600.5	430.9	298.0	184.5	106.0	50.5	7.6
-55°	563.5	407.9	281.2	177.5	101.0	49.4	7.6
-57.5°	524.0	384.5	263.2	169.9	95.7	48.3	7.6
-60°	483.2	359.6	244.5	161.6	90.2	47.0	7.6
-62.5°	450.0	333.1	231.5	152.7	87.4	45.7	7.6
-65°	414.8	305.1	217.6	143.2	84.3	44.3	7.6
-67.5°	377.9	280.4	202.8	133.2	81.1	42.8	7.6
-70°	339.4	259.1	187.2	122.6	77.7	41.3	7.6
-72.5°	308.8	236.7	170.9	116.1	74.2	39.6	7.6
-75°	278.3	213.4	154.0	110.2	70.4	37.9	7.6
-77.5°	246.7	189.2	143.7	104.2	66.6	36.2	7.6
-80°	214.1	172.7	134.6	97.8	62.6	34.3	7.6
-82.5°	196.0	160.1	125.2	91.3	58.5	32.5	7.6
-85°	179.5	147.2	115.5	84.5	54.2	30.5	7.6
-87.5°	162.5	133.9	105.6	77.6	49.9	28.6	7.6
-90°	8.7	8.7	8.7	8.7	8.7	8.2	7.6

(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

