

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: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-7F-VHE**

Issue Date: 11/16/2023

Test Information

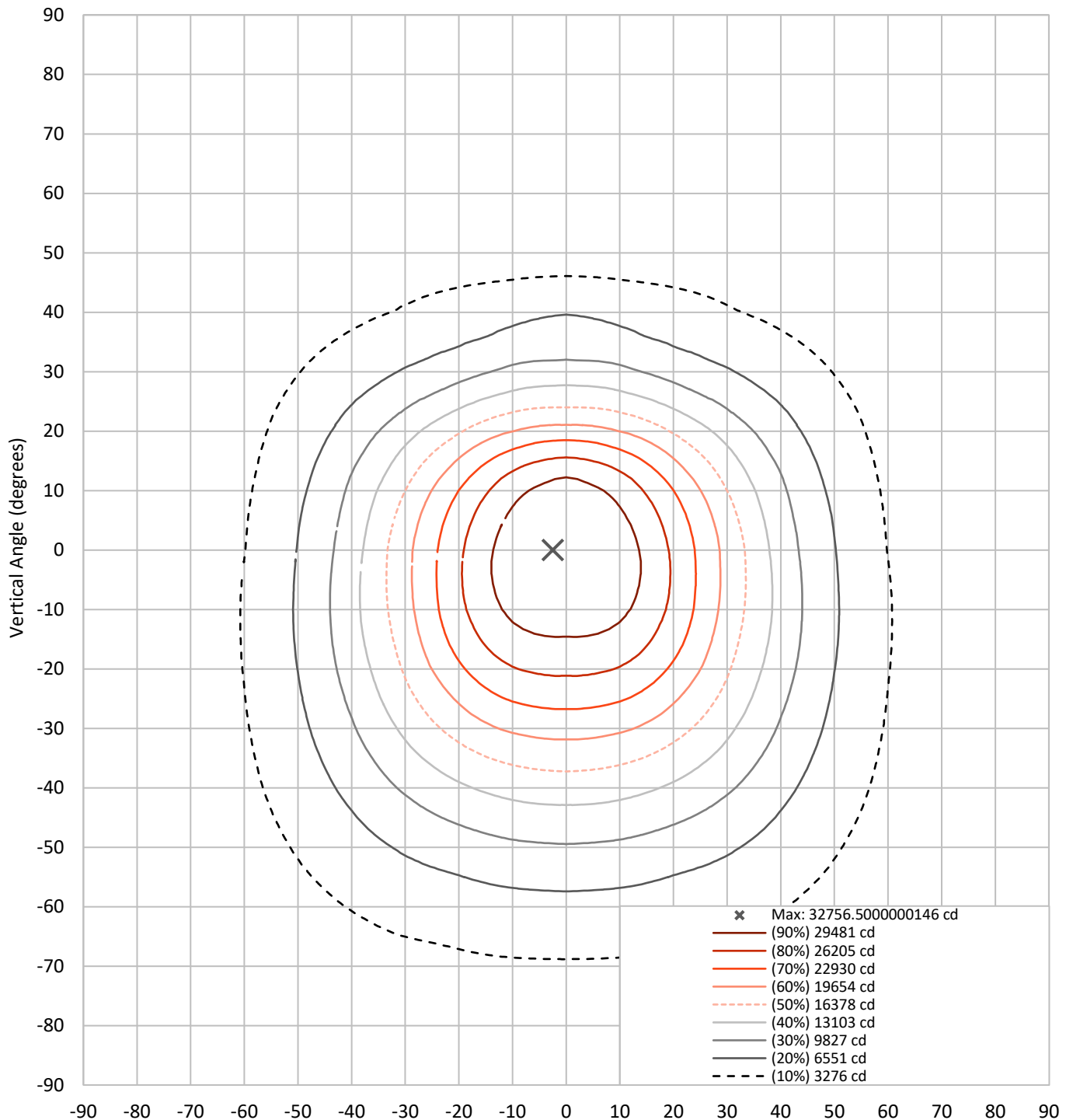
Test Method: LM-79-08
Report Number: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-7F-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 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:	43578.2 lumens	Max Intensity:	32756.5 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	126.0 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:	23660.9 lumens	Field Lumens:	40836.8 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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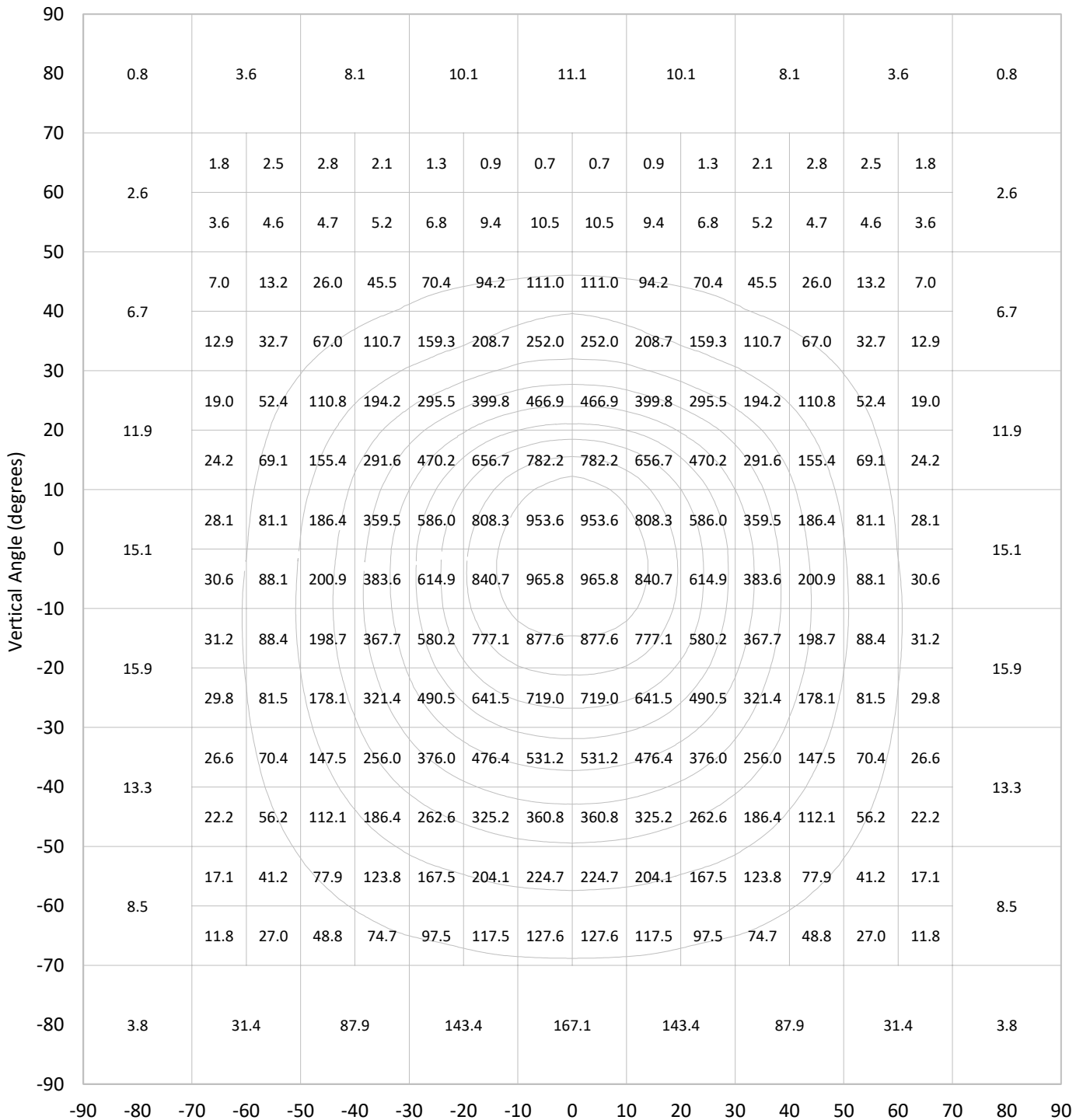
Iso-Candela Plot





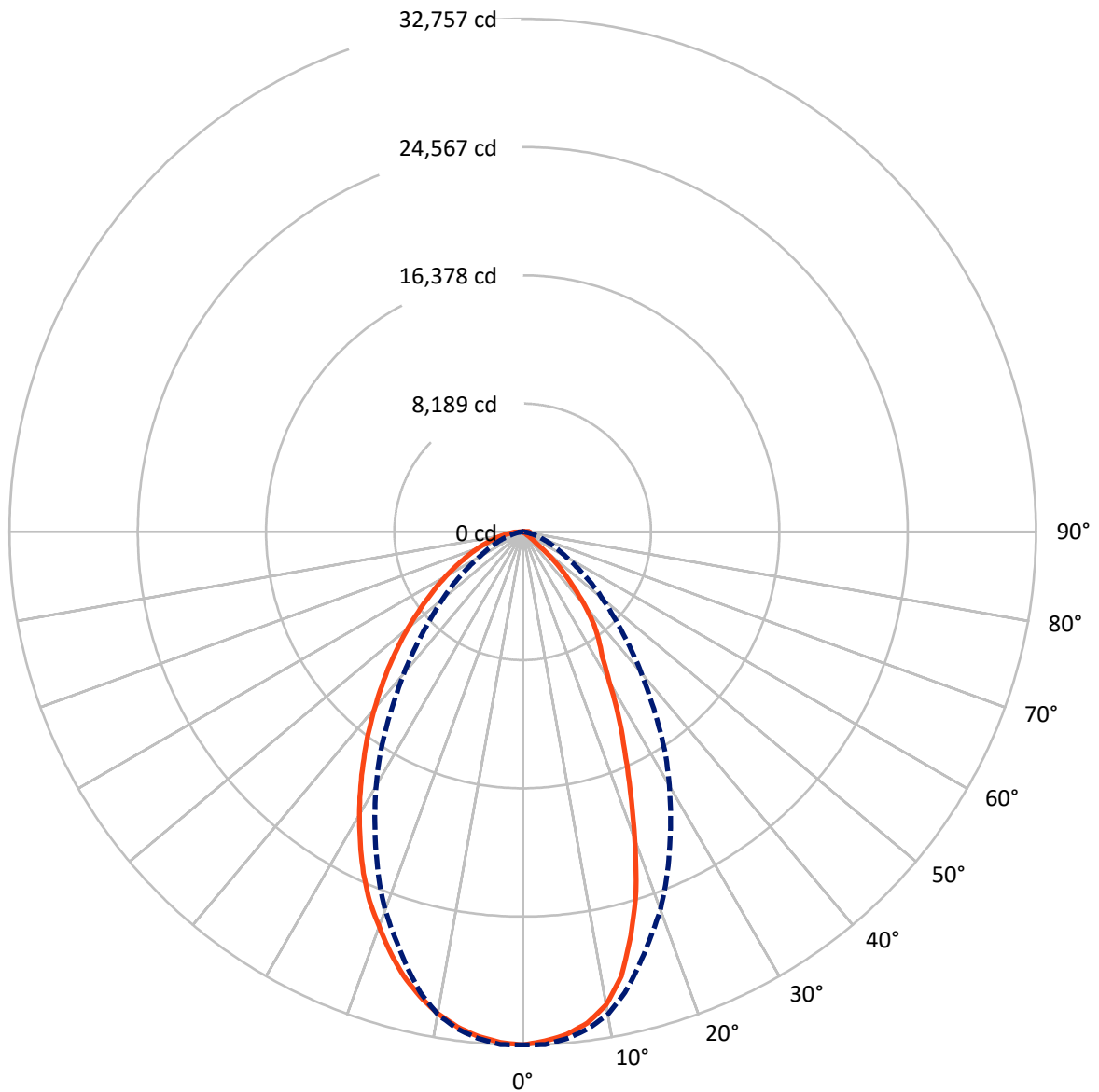
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Lumen Table



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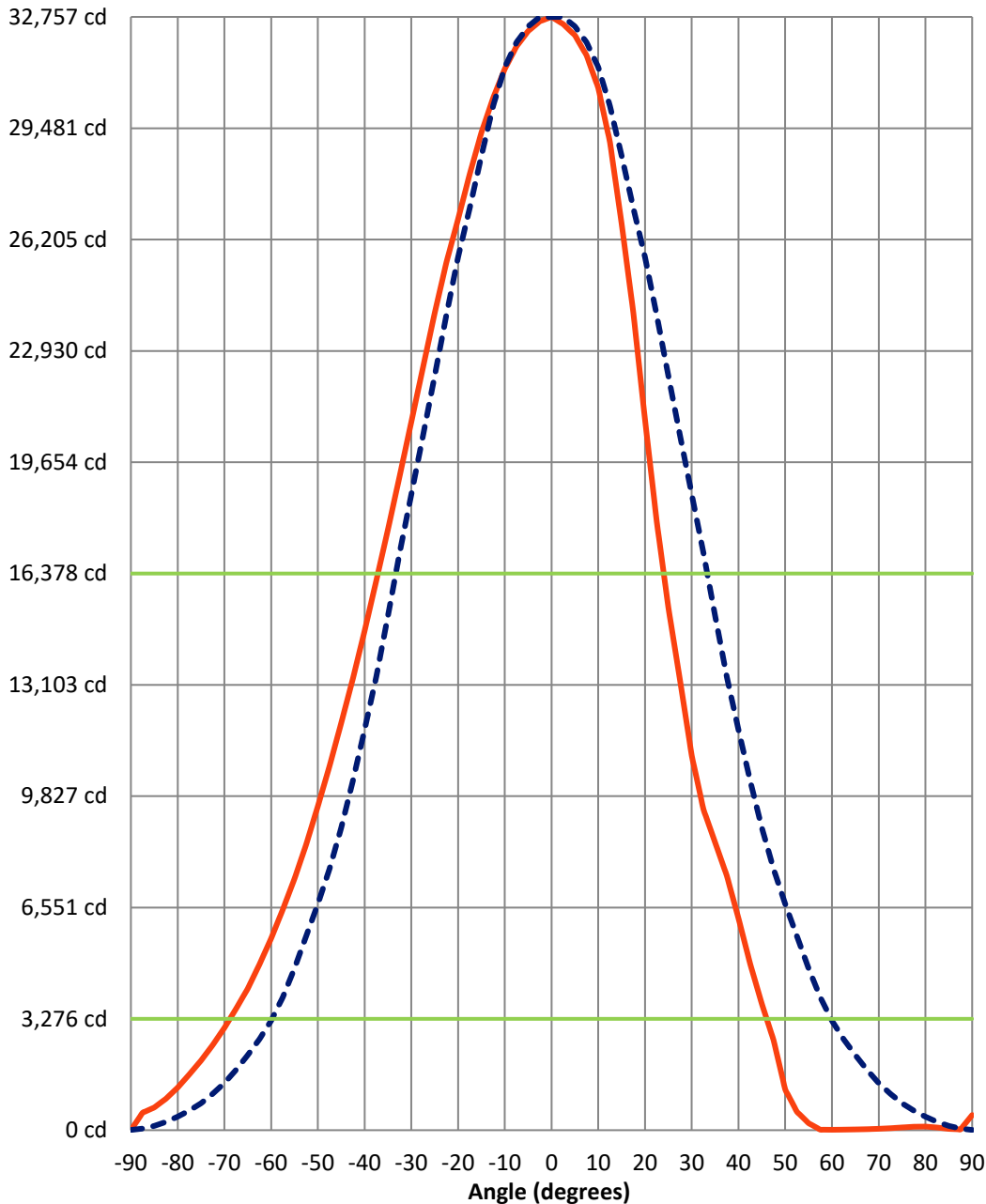
Luminous Intensity Polar Plot



— Vertical Distribution Through -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: 23660.9
Efficiency: 54.3%

Field:
H Angle: 119.6°
V Angle: 114.9°
Lumens: 40836.8
Efficiency: 93.7%

Spill:
Lumens: 2741.5
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°	7.1	25.0	42.8	66.2	89.7	113.1	136.5	153.6	170.7	187.7	204.8
87.5°	7.1	9.1	10.4	11.3	12.0	12.5	12.9	12.9	12.7	12.3	11.8
85°	7.1	10.5	12.6	14.4	15.8	16.9	17.7	17.9	17.8	17.3	16.6
82.5°	7.1	11.9	14.8	17.4	19.6	21.2	22.4	22.9	23.3	25.0	26.3
80°	7.1	13.3	17.1	20.5	23.4	25.6	27.7	31.3	34.3	36.9	38.9
77.5°	7.1	14.7	19.3	23.6	27.2	31.7	36.9	41.3	45.3	48.7	50.3
75°	7.1	16.1	21.5	26.6	31.9	41.1	46.3	51.3	56.6	60.0	58.4
72.5°	7.1	17.5	23.8	29.7	40.7	50.7	55.9	62.6	70.2	71.8	67.4
70°	7.1	18.9	26.1	33.6	49.6	60.3	66.5	77.8	84.5	84.6	86.5
67.5°	7.1	20.3	28.4	41.1	58.6	70.2	82.8	93.4	99.7	108.4	109.1
65°	7.1	21.7	30.7	48.6	67.6	83.1	99.5	109.6	124.6	133.2	135.1
62.5°	7.1	23.0	33.0	56.1	76.7	99.1	116.7	132.0	150.4	160.7	167.6
60°	7.1	24.4	35.3	63.5	85.8	115.3	134.4	157.3	177.0	195.4	202.1
57.5°	7.1	25.7	40.8	71.0	99.8	131.8	158.8	183.6	210.5	231.8	242.6
55°	7.1	27.0	46.2	78.4	114.0	148.5	184.4	211.7	246.7	271.4	287.8
52.5°	7.1	28.3	51.5	85.7	128.3	166.5	210.5	247.1	284.1	318.3	336.4
50°	7.1	29.6	56.7	93.0	142.6	189.4	237.0	284.1	325.0	367.8	397.5
47.5°	7.1	30.8	61.8	101.2	156.9	212.3	264.9	321.8	372.7	419.8	465.0
45°	7.1	32.0	66.8	112.0	171.2	235.4	298.3	360.4	424.3	486.9	537.9
42.5°	7.1	33.2	71.6	122.6	185.5	258.5	331.9	403.9	477.6	558.0	636.0
40°	7.1	34.4	76.4	133.1	201.7	281.6	365.6	451.3	535.6	632.6	745.0
37.5°	7.1	35.5	81.0	143.4	219.6	304.7	399.5	499.4	600.4	712.3	861.7
35°	7.1	36.6	85.5	153.3	237.3	330.5	433.3	547.9	664.6	805.1	991.8
32.5°	7.1	37.7	89.8	162.8	254.6	357.4	469.0	596.9	728.2	894.2	1106.5
30°	7.1	38.7	93.9	172.0	271.5	383.8	508.6	646.9	790.8	979.3	1214.0
27.5°	7.1	39.7	97.8	180.7	286.9	409.7	547.8	699.0	856.2	1060.4	1314.2
25°	7.1	40.6	101.6	189.1	301.5	434.9	586.3	749.8	925.1	1143.1	1407.5
22.5°	7.1	41.5	105.2	196.9	315.3	458.2	624.0	799.0	990.3	1223.0	1505.6
20°	7.1	42.4	108.5	204.3	328.2	477.6	660.7	846.5	1051.7	1296.6	1598.1
17.5°	7.1	43.2	111.6	211.2	340.3	495.5	689.5	892.0	1109.2	1363.9	1684.7
15°	7.1	43.9	114.5	217.6	351.5	511.9	711.9	930.3	1162.7	1425.1	1765.1
12.5°	7.1	44.6	117.1	223.4	361.8	526.8	731.7	960.1	1209.8	1480.2	1838.8
10°	7.1	45.2	119.5	228.7	371.1	540.0	748.9	987.9	1252.1	1545.0	1913.8
7.5°	7.1	45.7	121.6	233.3	379.3	551.7	763.4	1013.2	1291.4	1609.1	1999.4
5°	7.1	46.2	123.5	237.3	386.5	561.7	775.4	1035.7	1327.0	1669.6	2077.6
2.5°	7.1	46.6	125.0	240.8	392.5	570.1	784.8	1055.1	1358.6	1725.2	2148.0
0°	7.1	46.9	126.3	243.5	397.4	576.7	791.7	1070.9	1385.7	1775.0	2210.1
-2.5°	7.1	47.8	128.2	247.2	403.9	587.5	810.7	1097.2	1419.5	1809.9	2249.3
-5°	7.1	48.7	129.9	250.2	409.2	596.4	827.0	1119.4	1448.1	1837.8	2279.6
-7.5°	7.1	49.4	131.2	252.5	413.1	603.4	840.2	1137.4	1471.1	1858.9	2300.8
-10°	7.1	50.1	132.2	254.0	415.8	608.3	850.2	1150.8	1488.5	1873.2	2312.8
-12.5°	7.1	50.7	132.9	254.8	417.0	611.2	856.7	1159.5	1499.9	1881.2	2322.2
-15°	7.1	51.2	133.2	254.8	416.9	611.9	859.4	1163.3	1503.8	1884.5	2324.5
-17.5°	7.1	51.6	133.3	254.0	415.3	610.3	858.3	1160.6	1499.5	1879.6	2315.9
-20°	7.1	51.9	133.0	252.5	412.2	606.4	853.6	1152.0	1488.5	1866.2	2296.1



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.1	52.1	132.3	250.1	407.7	600.1	846.1	1138.9	1470.7	1844.2	2265.0
-25°	7.1	52.3	131.3	247.0	401.6	594.0	835.3	1121.1	1446.1	1813.4	2222.5
-27.5°	7.1	52.3	130.1	243.0	394.0	586.4	821.1	1098.8	1414.5	1776.2	2180.7
-30°	7.1	52.2	128.4	238.2	385.1	576.2	803.7	1072.0	1381.2	1735.0	2129.1
-32.5°	7.1	52.1	126.5	232.6	377.0	563.4	783.0	1046.3	1345.7	1685.5	2067.1
-35°	7.1	51.8	124.2	226.2	367.3	548.1	763.7	1018.6	1305.0	1627.7	1994.9
-37.5°	7.1	51.5	121.6	219.0	355.9	531.7	743.0	987.0	1259.1	1561.6	1919.9
-40°	7.1	51.1	118.7	211.1	343.0	515.9	719.0	951.7	1208.2	1499.6	1840.9
-42.5°	7.1	50.5	115.5	202.8	330.9	497.9	691.7	912.8	1159.9	1438.3	1754.4
-45°	7.1	49.9	111.9	194.6	320.1	477.8	661.1	872.9	1111.1	1369.5	1663.0
-47.5°	7.1	49.2	108.1	185.6	308.0	455.6	627.3	833.1	1058.1	1293.6	1576.8
-50°	7.1	48.4	104.0	179.3	294.6	431.3	596.7	789.3	998.7	1225.6	1481.9
-52.5°	7.1	47.4	99.6	173.4	280.0	405.0	564.4	741.6	938.8	1151.5	1380.8
-55°	7.1	46.5	94.9	166.8	264.3	383.4	529.6	691.4	876.2	1071.8	1289.7
-57.5°	7.1	45.4	90.0	159.6	247.4	361.4	492.5	646.7	809.5	992.9	1192.3
-60°	7.1	44.2	84.8	151.9	229.7	337.9	454.2	597.8	741.4	910.9	1092.0
-62.5°	7.1	43.0	82.1	143.5	217.5	313.0	422.9	545.7	679.6	824.5	992.8
-65°	7.1	41.6	79.3	134.6	204.5	286.8	389.9	494.8	614.8	745.8	888.9
-67.5°	7.1	40.3	76.2	125.2	190.6	263.5	355.2	451.1	547.2	666.8	792.8
-70°	7.1	38.8	73.1	115.2	176.0	243.5	319.0	405.8	492.9	584.7	698.1
-72.5°	7.1	37.3	69.7	109.1	160.7	222.5	290.2	358.9	437.3	519.4	604.9
-75°	7.1	35.7	66.2	103.6	144.7	200.6	261.6	319.4	380.0	452.5	528.0
-77.5°	7.1	34.0	62.6	97.9	135.0	177.8	231.8	281.9	333.6	388.0	449.1
-80°	7.1	32.3	58.8	92.0	126.5	162.3	201.2	243.4	287.3	333.3	381.5
-82.5°	7.1	30.5	55.0	85.8	117.7	150.4	184.1	211.2	240.0	277.5	316.6
-85°	7.1	28.7	51.0	79.4	108.5	138.3	168.6	192.3	216.1	240.1	264.4
-87.5°	7.1	26.8	46.9	72.9	99.2	125.8	152.7	173.1	193.5	214.1	234.8
-90°	7.1	7.7	8.2	8.2	8.2	8.2	8.2	7.9	7.7	7.4	7.1



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	219.8	234.9	249.9	264.9	279.7	294.5	309.2	324.0	337.8	351.5	365.3
87.5°	12.2	12.4	12.7	13.0	12.4	11.8	11.2	10.4	11.3	12.2	13.2
85°	17.2	17.8	19.3	20.5	21.2	22.3	23.7	25.3	28.3	31.3	34.2
82.5°	28.7	30.6	32.0	32.8	35.7	39.2	42.9	46.4	49.8	53.0	56.1
80°	41.5	43.5	43.8	44.3	48.1	52.7	57.5	62.6	66.7	70.5	74.0
77.5°	50.8	51.9	53.3	54.8	59.6	66.3	73.0	79.7	84.7	88.7	92.3
75°	58.1	60.2	65.1	68.1	73.5	81.3	89.2	96.7	101.7	104.5	106.3
72.5°	70.1	77.1	81.4	83.0	88.3	97.5	105.8	113.2	117.0	116.5	114.1
70°	88.4	94.9	100.5	102.6	104.9	113.9	120.7	125.9	128.3	123.6	114.5
67.5°	108.2	118.2	123.3	123.6	120.4	128.2	134.3	133.5	129.5	119.4	107.4
65°	133.6	143.1	147.7	145.8	137.2	138.9	138.5	134.9	125.6	111.8	97.4
62.5°	162.0	170.6	174.2	169.4	153.6	146.8	142.9	133.6	119.4	105.8	92.2
60°	198.2	200.2	202.5	193.8	173.9	155.1	147.8	138.5	123.3	104.6	93.5
57.5°	238.9	232.3	233.4	223.7	200.8	167.3	164.0	152.1	139.3	114.8	103.3
55°	285.7	267.8	270.6	261.8	240.8	203.3	190.6	188.9	170.9	151.6	130.3
52.5°	341.9	317.6	317.0	315.6	304.2	271.9	242.8	263.0	274.4	252.9	266.6
50°	405.1	392.9	374.6	395.9	402.6	385.5	359.9	416.5	484.7	515.8	515.0
47.5°	488.9	481.7	465.9	504.4	552.4	596.4	607.0	709.2	812.4	926.6	940.2
45°	587.6	605.8	596.8	678.4	781.2	899.6	987.6	1086.7	1321.8	1458.1	1660.1
42.5°	697.2	750.2	798.4	875.5	1118.1	1268.8	1401.5	1650.4	1884.2	2081.9	2290.6
40°	838.3	908.0	1013.3	1223.0	1484.7	1659.1	1887.4	2171.0	2407.8	2631.0	2844.7
37.5°	991.2	1107.6	1250.3	1550.9	1848.7	2067.1	2346.7	2628.1	2897.2	3147.7	3446.4
35°	1152.9	1307.9	1532.7	1846.8	2159.2	2463.5	2771.2	3084.6	3391.8	3735.0	4070.9
32.5°	1328.9	1508.4	1792.2	2125.7	2475.4	2828.9	3186.4	3552.3	3942.8	4342.9	4699.3
30°	1487.6	1731.9	2033.9	2395.6	2790.3	3196.3	3613.5	4034.5	4513.9	4987.6	5415.1
27.5°	1608.9	1936.5	2273.8	2673.6	3106.0	3558.8	4042.2	4563.9	5122.0	5665.0	6172.5
25°	1725.3	2094.0	2503.8	2951.6	3431.9	3941.0	4481.7	5065.8	5750.6	6386.8	7019.9
22.5°	1847.2	2252.7	2694.8	3222.4	3749.1	4328.5	4928.4	5600.6	6357.5	7109.5	7878.9
20°	1976.9	2416.8	2883.5	3439.8	4045.8	4710.3	5348.9	6131.2	6973.2	7847.1	8785.6
17.5°	2103.3	2567.7	3066.3	3652.6	4309.5	5053.7	5754.3	6644.8	7577.9	8577.4	9638.9
15°	2225.1	2705.3	3233.0	3848.3	4564.5	5354.6	6173.9	7149.7	8193.2	9296.8	10411.4
12.5°	2340.9	2829.4	3383.3	4025.9	4802.6	5646.9	6549.5	7575.8	8718.7	9938.5	11153.5
10°	2449.2	2940.3	3516.8	4184.6	5021.0	5925.7	6883.8	7956.6	9145.0	10401.7	11756.9
7.5°	2531.2	3032.3	3634.6	4323.6	5216.8	6185.5	7176.4	8290.3	9505.3	10814.2	12271.0
5°	2594.1	3107.1	3743.5	4483.9	5404.9	6400.5	7417.0	8574.9	9800.5	11169.0	12714.8
2.5°	2641.8	3170.3	3836.8	4633.0	5573.4	6546.9	7574.0	8761.7	10066.2	11500.4	13075.5
0°	2676.7	3220.8	3912.7	4760.4	5710.1	6654.6	7689.9	8897.3	10282.0	11780.9	13341.9
-2.5°	2735.9	3310.4	4018.7	4861.4	5795.4	6760.1	7839.2	9086.1	10486.7	11957.8	13571.5
-5°	2783.2	3384.1	4104.5	4937.4	5851.0	6829.2	7942.1	9217.4	10620.7	12076.9	13690.1
-7.5°	2817.5	3439.9	4168.8	4987.8	5888.1	6885.0	8013.9	9282.8	10670.9	12148.0	13708.6
-10°	2837.8	3466.2	4189.1	5002.7	5908.1	6915.1	8041.5	9292.4	10655.9	12131.3	13657.8
-12.5°	2845.5	3465.6	4182.9	4990.6	5892.7	6900.8	8019.7	9247.1	10577.3	12023.5	13528.4
-15°	2840.5	3447.8	4153.8	4950.9	5840.8	6840.3	7947.9	9147.9	10431.5	11803.9	13266.4
-17.5°	2822.7	3412.8	4101.5	4883.6	5751.6	6732.4	7820.0	8964.5	10222.0	11550.4	12933.5
-20°	2792.2	3360.5	4025.8	4788.7	5629.8	6590.8	7639.2	8747.2	9955.1	11247.8	12560.7



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2749.0	3291.1	3937.4	4681.7	5512.9	6429.8	7423.5	8485.8	9615.1	10886.7	12137.9
-25°	2699.4	3229.7	3844.9	4565.2	5365.2	6241.2	7170.8	8186.6	9252.4	10442.5	11653.7
-27.5°	2642.8	3155.2	3746.4	4425.5	5183.9	6031.6	6920.4	7873.9	8883.1	9953.2	11114.5
-30°	2572.9	3070.4	3628.3	4272.6	5000.3	5803.4	6658.1	7520.0	8476.0	9484.9	10549.4
-32.5°	2489.9	2968.1	3510.6	4124.1	4800.4	5539.4	6352.0	7171.6	8053.6	8987.4	9973.9
-35°	2401.1	2864.2	3379.4	3955.0	4581.2	5273.7	6015.8	6795.5	7606.6	8484.1	9351.9
-37.5°	2311.8	2745.3	3226.1	3776.0	4375.8	4991.0	5658.5	6400.2	7160.3	7936.1	8733.1
-40°	2211.4	2611.8	3073.6	3586.3	4129.4	4700.3	5325.7	5987.8	6694.5	7394.3	8108.7
-42.5°	2101.9	2488.7	2912.1	3369.6	3877.8	4409.0	4970.2	5589.7	6205.8	6841.4	7500.9
-45°	1998.0	2354.2	2740.1	3165.4	3614.6	4105.8	4629.6	5171.1	5725.6	6287.3	6887.8
-47.5°	1886.4	2214.5	2578.0	2946.6	3359.4	3804.0	4275.0	4762.2	5242.5	5757.6	6270.8
-50°	1770.1	2083.4	2396.6	2739.2	3105.8	3504.8	3932.0	4352.2	4791.4	5237.4	5700.0
-52.5°	1653.5	1944.5	2228.2	2528.1	2859.7	3214.0	3586.2	3961.6	4351.9	4744.5	5141.0
-55°	1527.6	1797.6	2055.0	2325.9	2616.6	2934.2	3249.3	3587.0	3925.3	4284.6	4610.3
-57.5°	1408.5	1638.7	1877.0	2124.5	2384.7	2655.0	2934.8	3217.4	3525.3	3835.1	4114.2
-60°	1291.0	1485.9	1694.0	1920.2	2153.1	2392.5	2624.4	2876.6	3137.1	3390.8	3646.2
-62.5°	1169.2	1341.8	1519.7	1711.7	1923.6	2129.8	2339.2	2551.7	2763.9	2989.0	3204.9
-65°	1049.1	1196.2	1354.0	1520.4	1690.8	1877.1	2061.1	2240.6	2430.1	2614.4	2793.3
-67.5°	923.6	1058.4	1193.4	1332.0	1484.5	1636.6	1789.6	1954.5	2114.6	2265.1	2416.8
-70°	811.5	920.0	1039.5	1161.8	1283.1	1407.9	1543.8	1680.1	1813.8	1942.1	2073.4
-72.5°	700.1	797.3	895.1	993.0	1098.5	1203.5	1309.6	1416.6	1528.4	1640.3	1749.1
-75°	600.7	673.7	758.6	845.0	927.3	1007.6	1089.8	1180.7	1270.1	1357.9	1444.9
-77.5°	510.2	571.7	635.4	701.0	763.6	830.9	898.6	966.3	1033.0	1098.3	1162.3
-80°	425.0	468.2	519.5	572.6	622.3	671.4	720.4	769.4	818.8	870.5	923.8
-82.5°	351.8	387.0	422.7	458.6	491.7	524.0	557.4	595.6	634.6	673.5	711.8
-85°	284.8	305.0	332.4	360.0	386.5	412.5	438.2	463.5	489.5	515.1	540.3
-87.5°	252.5	270.1	287.6	305.1	321.9	338.5	355.0	371.4	388.1	404.8	421.5
-90°	7.1	7.1	7.1	7.1	6.9	6.6	6.4	6.1	5.9	5.6	5.4



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	379.0	383.4	387.7	392.1	396.4	406.6	416.8	426.9	437.1	439.4	441.7
87.5°	14.3	14.3	14.3	14.3	14.3	16.5	18.9	21.3	23.8	23.5	23.1
85°	37.0	37.6	37.8	37.9	37.7	40.8	44.0	47.1	50.1	48.1	45.7
82.5°	59.0	60.1	61.1	62.2	63.3	66.5	69.8	72.8	75.7	76.6	77.5
80°	77.2	79.2	80.7	81.9	82.8	85.6	88.6	91.4	94.1	97.0	99.9
77.5°	94.9	95.6	95.2	94.3	92.8	93.2	93.9	94.2	94.2	95.7	97.4
75°	107.2	105.8	101.6	96.8	91.4	88.0	85.6	83.0	80.3	79.9	80.1
72.5°	109.9	104.3	97.4	88.9	80.4	74.6	70.6	66.8	63.1	61.4	60.3
70°	104.1	93.4	84.1	74.9	65.9	59.3	55.3	51.7	48.5	46.3	44.8
67.5°	93.7	80.5	70.7	61.3	52.5	45.7	42.2	39.1	36.2	34.0	32.5
65°	83.2	69.2	59.7	50.7	41.9	35.1	32.4	29.8	27.2	25.3	24.3
62.5°	77.3	62.6	52.9	44.9	36.9	29.1	26.3	23.7	21.0	18.9	18.0
60°	79.4	62.7	50.8	43.5	35.2	26.2	22.8	20.3	17.6	15.1	14.2
57.5°	91.9	73.6	55.9	53.0	44.7	31.3	32.6	37.9	33.9	23.4	22.2
55°	140.6	136.0	89.0	115.2	134.0	126.3	117.9	156.1	174.7	175.7	192.9
52.5°	279.3	312.2	300.0	314.2	391.8	423.2	419.1	487.3	522.7	517.8	536.3
50°	588.1	655.6	738.6	752.0	882.0	972.2	993.9	1073.0	1160.7	1194.3	1232.1
47.5°	1147.7	1305.9	1386.1	1476.6	1626.2	1790.1	1917.1	2030.8	2154.1	2238.4	2340.1
45°	1869.6	1981.3	2120.9	2331.1	2559.5	2773.4	2974.3	3157.4	3278.2	3385.9	3500.2
42.5°	2463.4	2641.9	2876.1	3189.6	3514.5	3734.0	3899.3	4075.8	4264.5	4443.8	4609.2
40°	3071.5	3278.4	3649.9	4005.1	4247.5	4459.5	4685.7	4925.2	5171.9	5407.2	5641.1
37.5°	3723.2	4028.9	4354.2	4664.7	4921.2	5121.7	5431.8	5697.0	5944.2	6294.6	6616.0
35°	4416.7	4748.9	5028.4	5383.5	5670.3	5917.6	6242.1	6576.2	6790.1	7270.8	7686.9
32.5°	5106.6	5493.8	5866.5	6203.7	6559.6	6940.9	7256.7	7715.0	8063.6	8523.4	8975.4
30°	5825.5	6356.2	6821.4	7191.5	7676.3	8169.2	8612.3	9152.0	9666.0	10093.9	10572.9
27.5°	6732.6	7322.7	7890.1	8460.3	8978.2	9593.8	10299.1	10869.9	11527.9	11994.5	12495.5
25°	7695.0	8398.0	9152.6	9887.7	10567.1	11363.4	12163.0	12860.5	13542.5	14080.1	14615.5
22.5°	8741.5	9591.6	10489.8	11415.1	12333.6	13206.0	14064.4	14927.5	15713.6	16452.5	16967.2
20°	9804.4	10748.4	11839.1	12954.0	14011.6	14996.3	16027.7	17119.3	18118.2	18974.4	19608.5
17.5°	10763.2	11947.2	13146.8	14370.1	15562.9	16779.8	18059.5	19343.3	20526.0	21528.8	22370.6
15°	11626.9	12968.4	14357.2	15737.3	17109.0	18510.1	20005.5	21388.7	22714.2	23864.3	24848.5
12.5°	12478.6	13911.5	15400.2	16947.6	18573.7	20090.9	21613.3	23104.8	24494.0	25830.8	26816.8
10°	13232.4	14779.6	16373.4	18031.6	19715.8	21361.8	22966.4	24521.3	25886.2	27148.4	28341.3
7.5°	13846.7	15506.0	17207.0	18951.1	20684.5	22351.2	23985.5	25539.3	26924.6	28218.2	29438.0
5°	14376.4	16136.3	17891.9	19629.9	21374.1	23102.8	24752.8	26284.8	27727.8	29072.1	30294.5
2.5°	14808.7	16643.8	18422.6	20134.4	21871.6	23641.0	25332.7	26812.8	28321.2	29688.4	30891.7
0°	15133.1	16985.6	18707.5	20434.6	22193.3	23982.5	25684.2	27134.1	28669.6	30130.8	31275.0
-2.5°	15310.6	17054.3	18768.2	20501.0	22312.6	24153.2	25852.4	27415.2	28942.0	30311.6	31375.4
-5°	15372.2	17087.5	18795.3	20559.3	22355.3	24166.9	25860.3	27427.2	28893.4	30174.5	31144.8
-7.5°	15330.8	17029.2	18720.0	20466.7	22251.3	24041.2	25707.4	27206.3	28618.2	29831.6	30757.5
-10°	15205.9	16850.6	18542.0	20260.0	22048.3	23815.5	25448.4	26800.7	28148.7	29287.1	30162.6
-12.5°	14999.5	16574.3	18242.3	19922.2	21676.9	23375.5	24897.1	26243.5	27448.1	28601.2	29367.5
-15°	14706.7	16225.0	17819.7	19464.7	21127.1	22770.4	24254.0	25555.4	26671.3	27580.9	28387.9
-17.5°	14339.5	15804.4	17332.5	18908.9	20452.5	22016.0	23390.9	24695.0	25768.5	26578.2	27204.4
-20°	13887.4	15309.1	16770.4	18275.4	19709.7	21039.3	22364.8	23577.5	24638.5	25430.3	26032.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13410.2	14751.4	16135.9	17493.0	18799.1	20049.1	21249.5	22362.5	23371.4	24120.0	24696.0
-25°	12867.2	14121.6	15401.7	16627.3	17820.1	18984.0	20072.0	21103.3	21984.0	22712.3	23247.0
-27.5°	12272.6	13440.6	14596.0	15735.8	16842.5	17848.6	18849.8	19780.7	20555.2	21225.0	21698.5
-30°	11622.8	12691.0	13773.8	14842.3	15799.7	16705.9	17595.5	18403.6	19113.5	19701.6	20126.3
-32.5°	10937.5	11913.4	12917.8	13883.9	14723.5	15541.1	16316.8	17025.2	17676.2	18195.8	18578.8
-35°	10229.0	11133.1	12035.1	12870.4	13652.9	14380.3	15048.6	15676.5	16215.8	16689.5	17065.0
-37.5°	9532.1	10346.4	11129.2	11858.6	12581.6	13248.7	13832.4	14383.3	14873.6	15268.7	15597.9
-40°	8848.6	9569.4	10235.9	10885.1	11531.2	12095.9	12626.0	13101.0	13534.9	13912.4	14204.9
-42.5°	8169.3	8789.9	9365.1	9949.4	10508.0	10997.7	11459.3	11870.9	12247.4	12585.7	12869.2
-45°	7487.3	8018.2	8530.2	9043.8	9507.6	9943.8	10345.0	10706.7	11043.0	11327.9	11560.4
-47.5°	6790.9	7261.8	7726.9	8172.0	8556.8	8933.6	9279.0	9603.9	9907.0	10163.1	10368.5
-50°	6125.9	6542.1	6958.5	7326.5	7650.0	7963.8	8256.2	8569.8	8850.4	9083.7	9253.5
-52.5°	5501.6	5878.0	6235.9	6537.3	6810.7	7055.8	7280.3	7571.7	7835.8	8065.0	8215.5
-55°	4933.0	5255.1	5562.0	5810.9	6039.3	6243.7	6447.5	6681.6	6894.8	7085.5	7211.3
-57.5°	4397.8	4670.9	4926.2	5135.7	5326.2	5497.0	5686.3	5882.1	6056.9	6207.4	6308.7
-60°	3890.4	4122.8	4334.5	4507.0	4665.3	4809.1	4989.2	5160.1	5311.2	5433.9	5509.6
-62.5°	3411.7	3620.2	3784.8	3923.5	4050.0	4171.1	4328.5	4476.1	4612.4	4721.3	4784.6
-65°	2973.5	3156.1	3278.4	3388.2	3487.8	3597.0	3730.8	3850.9	3957.3	4038.2	4093.2
-67.5°	2574.0	2718.4	2814.9	2902.1	2987.4	3080.9	3194.5	3299.3	3395.1	3461.7	3502.9
-70°	2201.8	2313.2	2391.4	2465.5	2536.8	2616.9	2709.9	2796.6	2876.6	2928.3	2961.1
-72.5°	1854.6	1939.5	2004.1	2068.0	2125.5	2194.1	2270.0	2341.0	2407.0	2445.9	2470.9
-75°	1530.8	1595.8	1648.7	1697.7	1742.7	1800.4	1861.9	1919.5	1973.2	2002.9	2022.1
-77.5°	1230.4	1280.2	1320.0	1356.5	1389.6	1435.4	1482.7	1527.1	1568.5	1595.0	1616.2
-80°	975.9	1006.1	1030.6	1053.4	1074.5	1108.7	1143.4	1176.1	1206.7	1224.0	1237.7
-82.5°	749.6	767.9	782.5	795.3	806.4	830.2	854.0	876.5	897.7	908.9	918.3
-85°	565.1	574.9	583.2	590.6	597.1	613.7	630.1	645.9	661.1	664.3	666.6
-87.5°	438.1	443.5	448.5	453.4	458.2	470.5	482.7	494.9	507.0	509.1	511.0
-90°	5.1	4.9	4.6	4.4	4.1	3.9	3.6	3.4	3.1	2.8	2.6



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	444.0	446.3	444.8	443.2	444.8	446.3	444.0	441.7	439.4	437.1	426.9
87.5°	22.7	22.3	22.4	22.4	22.4	22.3	22.7	23.1	23.5	23.8	21.3
85°	43.3	40.7	38.7	36.7	38.7	40.7	43.3	45.7	48.1	50.1	47.1
82.5°	78.3	79.1	78.9	78.5	78.9	79.1	78.3	77.5	76.6	75.7	72.8
80°	102.8	105.5	106.4	107.0	106.4	105.5	102.8	99.9	97.0	94.1	91.4
77.5°	99.2	100.9	101.4	101.9	101.4	100.9	99.2	97.4	95.7	94.2	94.2
75°	80.4	80.9	80.6	80.5	80.6	80.9	80.4	80.1	79.9	80.3	83.0
72.5°	59.4	58.7	58.3	58.1	58.3	58.7	59.4	60.3	61.4	63.1	66.8
70°	43.5	42.4	41.5	40.8	41.5	42.4	43.5	44.8	46.3	48.5	51.7
67.5°	31.1	30.0	29.2	28.5	29.2	30.0	31.1	32.5	34.0	36.2	39.1
65°	23.4	22.7	22.0	21.4	22.0	22.7	23.4	24.3	25.3	27.2	29.8
62.5°	17.3	16.6	16.4	16.3	16.4	16.6	17.3	18.0	18.9	21.0	23.7
60°	13.4	12.6	12.3	12.2	12.3	12.6	13.4	14.2	15.1	17.6	20.3
57.5°	20.0	17.1	15.4	14.3	15.4	17.1	20.0	22.2	23.4	33.9	37.9
55°	202.1	202.7	206.7	210.9	206.7	202.7	202.1	192.9	175.7	174.7	156.1
52.5°	550.4	548.6	543.7	533.9	543.7	548.6	550.4	536.3	517.8	522.7	487.3
50°	1254.8	1237.1	1198.7	1144.3	1198.7	1237.1	1254.8	1232.1	1194.3	1160.7	1073.0
47.5°	2477.1	2579.6	2650.5	2681.8	2650.5	2579.6	2477.1	2340.1	2238.4	2154.1	2030.8
45°	3619.2	3679.9	3715.4	3743.5	3715.4	3679.9	3619.2	3500.2	3385.9	3278.2	3157.4
42.5°	4750.0	4846.3	4893.8	4885.8	4893.8	4846.3	4750.0	4609.2	4443.8	4264.5	4075.8
40°	5866.0	6067.6	6233.1	6352.0	6233.1	6067.6	5866.0	5641.1	5407.2	5171.9	4925.2
37.5°	6933.9	7234.2	7487.8	7671.5	7487.8	7234.2	6933.9	6616.0	6294.6	5944.2	5697.0
35°	8027.3	8292.1	8465.9	8541.7	8465.9	8292.1	8027.3	7686.9	7270.8	6790.1	6576.2
32.5°	9263.6	9410.7	9441.9	9520.9	9441.9	9410.7	9263.6	8975.4	8523.4	8063.6	7715.0
30°	10864.6	11017.5	11021.2	11120.6	11021.2	11017.5	10864.6	10572.9	10093.9	9666.0	9152.0
27.5°	12890.4	13147.9	13231.6	13319.4	13231.6	13147.9	12890.4	12495.5	11994.5	11527.9	10869.9
25°	15059.7	15299.7	15376.6	15347.1	15376.6	15299.7	15059.7	14615.5	14080.1	13542.5	12860.5
22.5°	17494.5	17805.7	17918.9	17861.8	17918.9	17805.7	17494.5	16967.2	16452.5	15713.6	14927.5
20°	20219.5	20668.8	20906.2	21013.4	20906.2	20668.8	20219.5	19608.5	18974.4	18118.2	17119.3
17.5°	23087.9	23749.9	24053.9	24143.5	24053.9	23749.9	23087.9	22370.6	21528.8	20526.0	19343.3
15°	25697.3	26275.4	26669.6	26872.2	26669.6	26275.4	25697.3	24848.5	23864.3	22714.2	21388.7
12.5°	27715.0	28451.7	29065.8	29395.1	29065.8	28451.7	27715.0	26816.8	25830.8	24494.0	23104.8
10°	29359.7	30103.5	30661.9	30932.7	30661.9	30103.5	29359.7	28341.3	27148.4	25886.2	24521.3
7.5°	30497.6	31189.0	31622.4	31799.8	31622.4	31189.0	30497.6	29438.0	28218.2	26924.6	25539.3
5°	31233.1	31894.2	32214.5	32329.6	32214.5	31894.2	31233.1	30294.5	29072.1	27727.8	26284.8
2.5°	31762.7	32285.7	32542.3	32558.9	32542.3	32285.7	31762.7	30891.7	29688.4	28321.2	26812.8
0°	32004.6	32475.3	32756.5	32751.4	32756.5	32475.3	32004.6	31275.0	30130.8	28669.6	27134.1
-2.5°	32016.3	32425.8	32625.7	32513.0	32625.7	32425.8	32016.3	31375.4	30311.6	28942.0	27415.2
-5°	31788.0	32188.8	32338.5	32304.1	32338.5	32188.8	31788.0	31144.8	30174.5	28893.4	27427.2
-7.5°	31378.0	31733.6	31886.5	31891.5	31886.5	31733.6	31378.0	30757.5	29831.6	28618.2	27206.3
-10°	30752.8	31050.0	31225.1	31175.2	31225.1	31050.0	30752.8	30162.6	29287.1	28148.7	26800.7
-12.5°	29925.8	30219.1	30367.6	30337.6	30367.6	30219.1	29925.8	29367.5	28601.2	27448.1	26243.5
-15°	28936.5	29215.3	29354.5	29341.1	29354.5	29215.3	28936.5	28387.9	27580.9	26671.3	25555.4
-17.5°	27711.7	27991.2	28133.7	28153.0	28133.7	27991.2	27711.7	27204.4	26578.2	25768.5	24695.0
-20°	26428.2	26674.6	26805.1	26807.0	26805.1	26674.6	26428.2	26032.1	25430.3	24638.5	23577.5



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	25097.7	25374.4	25529.3	25505.8	25529.3	25374.4	25097.7	24696.0	24120.0	23371.4	22362.5
-25°	23614.6	23892.0	24042.5	24036.5	24042.5	23892.0	23614.6	23247.0	22712.3	21984.0	21103.3
-27.5°	22031.4	22297.9	22443.3	22461.3	22443.3	22297.9	22031.4	21698.5	21225.0	20555.2	19780.7
-30°	20436.6	20699.4	20841.7	20853.4	20841.7	20699.4	20436.6	20126.3	19701.6	19113.5	18403.6
-32.5°	18873.9	19111.2	19242.7	19256.7	19242.7	19111.2	18873.9	18578.8	18195.8	17676.2	17025.2
-35°	17349.3	17557.8	17675.8	17714.1	17675.8	17557.8	17349.3	17065.0	16689.5	16215.8	15676.5
-37.5°	15865.5	16054.0	16167.9	16237.7	16167.9	16054.0	15865.5	15597.9	15268.7	14873.6	14383.3
-40°	14432.3	14597.4	14688.2	14689.9	14688.2	14597.4	14432.3	14204.9	13912.4	13534.9	13101.0
-42.5°	13079.3	13218.3	13287.8	13288.9	13287.8	13218.3	13079.3	12869.2	12585.7	12247.4	11870.9
-45°	11747.6	11883.6	11979.8	12040.7	11979.8	11883.6	11747.6	11560.4	11327.9	11043.0	10706.7
-47.5°	10525.3	10636.7	10713.2	10754.8	10713.2	10636.7	10525.3	10368.5	10163.1	9907.0	9603.9
-50°	9377.9	9467.0	9532.2	9570.8	9532.2	9467.0	9377.9	9253.5	9083.7	8850.4	8569.8
-52.5°	8317.6	8382.6	8406.0	8390.9	8406.0	8382.6	8317.6	8215.5	8065.0	7835.8	7571.7
-55°	7305.6	7370.4	7396.4	7387.2	7396.4	7370.4	7305.6	7211.3	7085.5	6894.8	6681.6
-57.5°	6388.4	6445.9	6491.9	6520.1	6491.9	6445.9	6388.4	6308.7	6207.4	6056.9	5882.1
-60°	5569.1	5611.6	5640.6	5652.0	5640.6	5611.6	5569.1	5509.6	5433.9	5311.2	5160.1
-62.5°	4829.1	4855.5	4876.1	4884.7	4876.1	4855.5	4829.1	4784.6	4721.3	4612.4	4476.1
-65°	4137.2	4169.5	4165.6	4143.0	4165.6	4169.5	4137.2	4093.2	4038.2	3957.3	3850.9
-67.5°	3534.0	3555.0	3573.1	3582.6	3573.1	3555.0	3534.0	3502.9	3461.7	3395.1	3299.3
-70°	2986.2	3003.4	3009.8	3007.9	3009.8	3003.4	2986.2	2961.1	2928.3	2876.6	2796.6
-72.5°	2489.7	2502.3	2504.8	2500.5	2504.8	2502.3	2489.7	2470.9	2445.9	2407.0	2341.0
-75°	2035.7	2044.1	2048.3	2048.0	2048.3	2044.1	2035.7	2022.1	2002.9	1973.2	1919.5
-77.5°	1633.9	1648.0	1642.0	1631.3	1642.0	1648.0	1633.9	1616.2	1595.0	1568.5	1527.1
-80°	1248.8	1257.4	1252.7	1245.1	1252.7	1257.4	1248.8	1237.7	1224.0	1206.7	1176.1
-82.5°	926.5	933.3	925.5	916.0	925.5	933.3	926.5	918.3	908.9	897.7	876.5
-85°	668.3	669.3	668.7	667.4	668.7	669.3	668.3	666.6	664.3	661.1	645.9
-87.5°	512.7	514.3	513.0	511.5	513.0	514.3	512.7	511.0	509.1	507.0	494.9
-90°	2.3	2.0	2.6	3.1	2.6	2.0	2.3	2.6	2.8	3.1	3.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	416.8	406.6	396.4	392.1	387.7	383.4	379.0	365.3	351.5	337.8	324.0
87.5°	18.9	16.5	14.3	14.3	14.3	14.3	14.3	13.2	12.2	11.3	10.4
85°	44.0	40.8	37.7	37.9	37.8	37.6	37.0	34.2	31.3	28.3	25.3
82.5°	69.8	66.5	63.3	62.2	61.1	60.1	59.0	56.1	53.0	49.8	46.4
80°	88.6	85.6	82.8	81.9	80.7	79.2	77.2	74.0	70.5	66.7	62.6
77.5°	93.9	93.2	92.8	94.3	95.2	95.6	94.9	92.3	88.7	84.7	79.7
75°	85.6	88.0	91.4	96.8	101.6	105.8	107.2	106.3	104.5	101.7	96.7
72.5°	70.6	74.6	80.4	88.9	97.4	104.3	109.9	114.1	116.5	117.0	113.2
70°	55.3	59.3	65.9	74.9	84.1	93.4	104.1	114.5	123.6	128.3	125.9
67.5°	42.2	45.7	52.5	61.3	70.7	80.5	93.7	107.4	119.4	129.5	133.5
65°	32.4	35.1	41.9	50.7	59.7	69.2	83.2	97.4	111.8	125.6	134.9
62.5°	26.3	29.1	36.9	44.9	52.9	62.6	77.3	92.2	105.8	119.4	133.6
60°	22.8	26.2	35.2	43.5	50.8	62.7	79.4	93.5	104.6	123.3	138.5
57.5°	32.6	31.3	44.7	53.0	55.9	73.6	91.9	103.3	114.8	139.3	152.1
55°	117.9	126.3	134.0	115.2	89.0	136.0	140.6	130.3	151.6	170.9	188.9
52.5°	419.1	423.2	391.8	314.2	300.0	312.2	279.3	266.6	252.9	274.4	263.0
50°	993.9	972.2	882.0	752.0	738.6	655.6	588.1	515.0	515.8	484.7	416.5
47.5°	1917.1	1790.1	1626.2	1476.6	1386.1	1305.9	1147.7	940.2	926.6	812.4	709.2
45°	2974.3	2773.4	2559.5	2331.1	2120.9	1981.3	1869.6	1660.1	1458.1	1321.8	1086.7
42.5°	3899.3	3734.0	3514.5	3189.6	2876.1	2641.9	2463.4	2290.6	2081.9	1884.2	1650.4
40°	4685.7	4459.5	4247.5	4005.1	3649.9	3278.4	3071.5	2844.7	2631.0	2407.8	2171.0
37.5°	5431.8	5121.7	4921.2	4664.7	4354.2	4028.9	3723.2	3446.4	3147.7	2897.2	2628.1
35°	6242.1	5917.6	5670.3	5383.5	5028.4	4748.9	4416.7	4070.9	3735.0	3391.8	3084.6
32.5°	7256.7	6940.9	6559.6	6203.7	5866.5	5493.8	5106.6	4699.3	4342.9	3942.8	3552.3
30°	8612.3	8169.2	7676.3	7191.5	6821.4	6356.2	5825.5	5415.1	4987.6	4513.9	4034.5
27.5°	10299.1	9593.8	8978.2	8460.3	7890.1	7322.7	6732.6	6172.5	5665.0	5122.0	4563.9
25°	12163.0	11363.4	10567.1	9887.7	9152.6	8398.0	7695.0	7019.9	6386.8	5750.6	5065.8
22.5°	14064.4	13206.0	12333.6	11415.1	10489.8	9591.6	8741.5	7878.9	7109.5	6357.5	5600.6
20°	16027.7	14996.3	14011.6	12954.0	11839.1	10748.4	9804.4	8785.6	7847.1	6973.2	6131.2
17.5°	18059.5	16779.8	15562.9	14370.1	13146.8	11947.2	10763.2	9638.9	8577.4	7577.9	6644.8
15°	20005.5	18510.1	17109.0	15737.3	14357.2	12968.4	11626.9	10411.4	9296.8	8193.2	7149.7
12.5°	21613.3	20090.9	18573.7	16947.6	15400.2	13911.5	12478.6	11153.5	9938.5	8718.7	7575.8
10°	22966.4	21361.8	19715.8	18031.6	16373.4	14779.6	13232.4	11756.9	10401.7	9145.0	7956.6
7.5°	23985.5	22351.2	20684.5	18951.1	17207.0	15506.0	13846.7	12271.0	10814.2	9505.3	8290.3
5°	24752.8	23102.8	21374.1	19629.9	17891.9	16136.3	14376.4	12714.8	11169.0	9800.5	8574.9
2.5°	25332.7	23641.0	21871.6	20134.4	18422.6	16643.8	14808.7	13075.5	11500.4	10066.2	8761.7
0°	25684.2	23982.5	22193.3	20434.6	18707.5	16985.6	15133.1	13341.9	11780.9	10282.0	8897.3
-2.5°	25852.4	24153.2	22312.6	20501.0	18768.2	17054.3	15310.6	13571.5	11957.8	10486.7	9086.1
-5°	25860.3	24166.9	22355.3	20559.3	18795.3	17087.5	15372.2	13690.1	12076.9	10620.7	9217.4
-7.5°	25707.4	24041.2	22251.3	20466.7	18720.0	17029.2	15330.8	13708.6	12148.0	10670.9	9282.8
-10°	25448.4	23815.5	22048.3	20260.0	18542.0	16850.6	15205.9	13657.8	12131.3	10655.9	9292.4
-12.5°	24897.1	23375.5	21676.9	19922.2	18242.3	16574.3	14999.5	13528.4	12023.5	10577.3	9247.1
-15°	24254.0	22770.4	21127.1	19464.7	17819.7	16225.0	14706.7	13266.4	11803.9	10431.5	9147.9
-17.5°	23390.9	22016.0	20452.5	18908.9	17332.5	15804.4	14339.5	12933.5	11550.4	10222.0	8964.5
-20°	22364.8	21039.3	19709.7	18275.4	16770.4	15309.1	13887.4	12560.7	11247.8	9955.1	8747.2



REPORT NUMBER: P731449 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21249.5	20049.1	18799.1	17493.0	16135.9	14751.4	13410.2	12137.9	10886.7	9615.1	8485.8
-25°	20072.0	18984.0	17820.1	16627.3	15401.7	14121.6	12867.2	11653.7	10442.5	9252.4	8186.6
-27.5°	18849.8	17848.6	16842.5	15735.8	14596.0	13440.6	12272.6	11114.5	9953.2	8883.1	7873.9
-30°	17595.5	16705.9	15799.7	14842.3	13773.8	12691.0	11622.8	10549.4	9484.9	8476.0	7520.0
-32.5°	16316.8	15541.1	14723.5	13883.9	12917.8	11913.4	10937.5	9973.9	8987.4	8053.6	7171.6
-35°	15048.6	14380.3	13652.9	12870.4	12035.1	11133.1	10229.0	9351.9	8484.1	7606.6	6795.5
-37.5°	13832.4	13248.7	12581.6	11858.6	11129.2	10346.4	9532.1	8733.1	7936.1	7160.3	6400.2
-40°	12626.0	12095.9	11531.2	10885.1	10235.9	9569.4	8848.6	8108.7	7394.3	6694.5	5987.8
-42.5°	11459.3	10997.7	10508.0	9949.4	9365.1	8789.9	8169.3	7500.9	6841.4	6205.8	5589.7
-45°	10345.0	9943.8	9507.6	9043.8	8530.2	8018.2	7487.3	6887.8	6287.3	5725.6	5171.1
-47.5°	9279.0	8933.6	8556.8	8172.0	7726.9	7261.8	6790.9	6270.8	5757.6	5242.5	4762.2
-50°	8256.2	7963.8	7650.0	7326.5	6958.5	6542.1	6125.9	5700.0	5237.4	4791.4	4352.2
-52.5°	7280.3	7055.8	6810.7	6537.3	6235.9	5878.0	5501.6	5141.0	4744.5	4351.9	3961.6
-55°	6447.5	6243.7	6039.3	5810.9	5562.0	5255.1	4933.0	4610.3	4284.6	3925.3	3587.0
-57.5°	5686.3	5497.0	5326.2	5135.7	4926.2	4670.9	4397.8	4114.2	3835.1	3525.3	3217.4
-60°	4989.2	4809.1	4665.3	4507.0	4334.5	4122.8	3890.4	3646.2	3390.8	3137.1	2876.6
-62.5°	4328.5	4171.1	4050.0	3923.5	3784.8	3620.2	3411.7	3204.9	2989.0	2763.9	2551.7
-65°	3730.8	3597.0	3487.8	3388.2	3278.4	3156.1	2973.5	2793.3	2614.4	2430.1	2240.6
-67.5°	3194.5	3080.9	2987.4	2902.1	2814.9	2718.4	2574.0	2416.8	2265.1	2114.6	1954.5
-70°	2709.9	2616.9	2536.8	2465.5	2391.4	2313.2	2201.8	2073.4	1942.1	1813.8	1680.1
-72.5°	2270.0	2194.1	2125.5	2068.0	2004.1	1939.5	1854.6	1749.1	1640.3	1528.4	1416.6
-75°	1861.9	1800.4	1742.7	1697.7	1648.7	1595.8	1530.8	1444.9	1357.9	1270.1	1180.7
-77.5°	1482.7	1435.4	1389.6	1356.5	1320.0	1280.2	1230.4	1162.3	1098.3	1033.0	966.3
-80°	1143.4	1108.7	1074.5	1053.4	1030.6	1006.1	975.9	923.8	870.5	818.8	769.4
-82.5°	854.0	830.2	806.4	795.3	782.5	767.9	749.6	711.8	673.5	634.6	595.6
-85°	630.1	613.7	597.1	590.6	583.2	574.9	565.1	540.3	515.1	489.5	463.5
-87.5°	482.7	470.5	458.2	453.4	448.5	443.5	438.1	421.5	404.8	388.1	371.4
-90°	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.4	5.6	5.9	6.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	309.2	294.5	279.7	264.9	249.9	234.9	219.8	204.8	187.7	170.7	153.6
87.5°	11.2	11.8	12.4	13.0	12.7	12.4	12.2	11.8	12.3	12.7	12.9
85°	23.7	22.3	21.2	20.5	19.3	17.8	17.2	16.6	17.3	17.8	17.9
82.5°	42.9	39.2	35.7	32.8	32.0	30.6	28.7	26.3	25.0	23.3	22.9
80°	57.5	52.7	48.1	44.3	43.8	43.5	41.5	38.9	36.9	34.3	31.3
77.5°	73.0	66.3	59.6	54.8	53.3	51.9	50.8	50.3	48.7	45.3	41.3
75°	89.2	81.3	73.5	68.1	65.1	60.2	58.1	58.4	60.0	56.6	51.3
72.5°	105.8	97.5	88.3	83.0	81.4	77.1	70.1	67.4	71.8	70.2	62.6
70°	120.7	113.9	104.9	102.6	100.5	94.9	88.4	86.5	84.6	84.5	77.8
67.5°	134.3	128.2	120.4	123.6	123.3	118.2	108.2	109.1	108.4	99.7	93.4
65°	138.5	138.9	137.2	145.8	147.7	143.1	133.6	135.1	133.2	124.6	109.6
62.5°	142.9	146.8	153.6	169.4	174.2	170.6	162.0	167.6	160.7	150.4	132.0
60°	147.8	155.1	173.9	193.8	202.5	200.2	198.2	202.1	195.4	177.0	157.3
57.5°	164.0	167.3	200.8	223.7	233.4	232.3	238.9	242.6	231.8	210.5	183.6
55°	190.6	203.3	240.8	261.8	270.6	267.8	285.7	287.8	271.4	246.7	211.7
52.5°	242.8	271.9	304.2	315.6	317.0	317.6	341.9	336.4	318.3	284.1	247.1
50°	359.9	385.5	402.6	395.9	374.6	392.9	405.1	397.5	367.8	325.0	284.1
47.5°	607.0	596.4	552.4	504.4	465.9	481.7	488.9	465.0	419.8	372.7	321.8
45°	987.6	899.6	781.2	678.4	596.8	605.8	587.6	537.9	486.9	424.3	360.4
42.5°	1401.5	1268.8	1118.1	875.5	798.4	750.2	697.2	636.0	558.0	477.6	403.9
40°	1887.4	1659.1	1484.7	1223.0	1013.3	908.0	838.3	745.0	632.6	535.6	451.3
37.5°	2346.7	2067.1	1848.7	1550.9	1250.3	1107.6	991.2	861.7	712.3	600.4	499.4
35°	2771.2	2463.5	2159.2	1846.8	1532.7	1307.9	1152.9	991.8	805.1	664.6	547.9
32.5°	3186.4	2828.9	2475.4	2125.7	1792.2	1508.4	1328.9	1106.5	894.2	728.2	596.9
30°	3613.5	3196.3	2790.3	2395.6	2033.9	1731.9	1487.6	1214.0	979.3	790.8	646.9
27.5°	4042.2	3558.8	3106.0	2673.6	2273.8	1936.5	1608.9	1314.2	1060.4	856.2	699.0
25°	4481.7	3941.0	3431.9	2951.6	2503.8	2094.0	1725.3	1407.5	1143.1	925.1	749.8
22.5°	4928.4	4328.5	3749.1	3222.4	2694.8	2252.7	1847.2	1505.6	1223.0	990.3	799.0
20°	5348.9	4710.3	4045.8	3439.8	2883.5	2416.8	1976.9	1598.1	1296.6	1051.7	846.5
17.5°	5754.3	5053.7	4309.5	3652.6	3066.3	2567.7	2103.3	1684.7	1363.9	1109.2	892.0
15°	6173.9	5354.6	4564.5	3848.3	3233.0	2705.3	2225.1	1765.1	1425.1	1162.7	930.3
12.5°	6549.5	5646.9	4802.6	4025.9	3383.3	2829.4	2340.9	1838.8	1480.2	1209.8	960.1
10°	6883.8	5925.7	5021.0	4184.6	3516.8	2940.3	2449.2	1913.8	1545.0	1252.1	987.9
7.5°	7176.4	6185.5	5216.8	4323.6	3634.6	3032.3	2531.2	1999.4	1609.1	1291.4	1013.2
5°	7417.0	6400.5	5404.9	4483.9	3743.5	3107.1	2594.1	2077.6	1669.6	1327.0	1035.7
2.5°	7574.0	6546.9	5573.4	4633.0	3836.8	3170.3	2641.8	2148.0	1725.2	1358.6	1055.1
0°	7689.9	6654.6	5710.1	4760.4	3912.7	3220.8	2676.7	2210.1	1775.0	1385.7	1070.9
-2.5°	7839.2	6760.1	5795.4	4861.4	4018.7	3310.4	2735.9	2249.3	1809.9	1419.5	1097.2
-5°	7942.1	6829.2	5851.0	4937.4	4104.5	3384.1	2783.2	2279.6	1837.8	1448.1	1119.4
-7.5°	8013.9	6885.0	5888.1	4987.8	4168.8	3439.9	2817.5	2300.8	1858.9	1471.1	1137.4
-10°	8041.5	6915.1	5908.1	5002.7	4189.1	3466.2	2837.8	2312.8	1873.2	1488.5	1150.8
-12.5°	8019.7	6900.8	5892.7	4990.6	4182.9	3465.6	2845.5	2322.2	1881.2	1499.9	1159.5
-15°	7947.9	6840.3	5840.8	4950.9	4153.8	3447.8	2840.5	2324.5	1884.5	1503.8	1163.3
-17.5°	7820.0	6732.4	5751.6	4883.6	4101.5	3412.8	2822.7	2315.9	1879.6	1499.5	1160.6
-20°	7639.2	6590.8	5629.8	4788.7	4025.8	3360.5	2792.2	2296.1	1866.2	1488.5	1152.0



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	7423.5	6429.8	5512.9	4681.7	3937.4	3291.1	2749.0	2265.0	1844.2	1470.7	1138.9
-25°	7170.8	6241.2	5365.2	4565.2	3844.9	3229.7	2699.4	2222.5	1813.4	1446.1	1121.1
-27.5°	6920.4	6031.6	5183.9	4425.5	3746.4	3155.2	2642.8	2180.7	1776.2	1414.5	1098.8
-30°	6658.1	5803.4	5000.3	4272.6	3628.3	3070.4	2572.9	2129.1	1735.0	1381.2	1072.0
-32.5°	6352.0	5539.4	4800.4	4124.1	3510.6	2968.1	2489.9	2067.1	1685.5	1345.7	1046.3
-35°	6015.8	5273.7	4581.2	3955.0	3379.4	2864.2	2401.1	1994.9	1627.7	1305.0	1018.6
-37.5°	5658.5	4991.0	4375.8	3776.0	3226.1	2745.3	2311.8	1919.9	1561.6	1259.1	987.0
-40°	5325.7	4700.3	4129.4	3586.3	3073.6	2611.8	2211.4	1840.9	1499.6	1208.2	951.7
-42.5°	4970.2	4409.0	3877.8	3369.6	2912.1	2488.7	2101.9	1754.4	1438.3	1159.9	912.8
-45°	4629.6	4105.8	3614.6	3165.4	2740.1	2354.2	1998.0	1663.0	1369.5	1111.1	872.9
-47.5°	4275.0	3804.0	3359.4	2946.6	2578.0	2214.5	1886.4	1576.8	1293.6	1058.1	833.1
-50°	3932.0	3504.8	3105.8	2739.2	2396.6	2083.4	1770.1	1481.9	1225.6	998.7	789.3
-52.5°	3586.2	3214.0	2859.7	2528.1	2228.2	1944.5	1653.5	1380.8	1151.5	938.8	741.6
-55°	3249.3	2934.2	2616.6	2325.9	2055.0	1797.6	1527.6	1289.7	1071.8	876.2	691.4
-57.5°	2934.8	2655.0	2384.7	2124.5	1877.0	1638.7	1408.5	1192.3	992.9	809.5	646.7
-60°	2624.4	2392.5	2153.1	1920.2	1694.0	1485.9	1291.0	1092.0	910.9	741.4	597.8
-62.5°	2339.2	2129.8	1923.6	1711.7	1519.7	1341.8	1169.2	992.8	824.5	679.6	545.7
-65°	2061.1	1877.1	1690.8	1520.4	1354.0	1196.2	1049.1	888.9	745.8	614.8	494.8
-67.5°	1789.6	1636.6	1484.5	1332.0	1193.4	1058.4	923.6	792.8	666.8	547.2	451.1
-70°	1543.8	1407.9	1283.1	1161.8	1039.5	920.0	811.5	698.1	584.7	492.9	405.8
-72.5°	1309.6	1203.5	1098.5	993.0	895.1	797.3	700.1	604.9	519.4	437.3	358.9
-75°	1089.8	1007.6	927.3	845.0	758.6	673.7	600.7	528.0	452.5	380.0	319.4
-77.5°	898.6	830.9	763.6	701.0	635.4	571.7	510.2	449.1	388.0	333.6	281.9
-80°	720.4	671.4	622.3	572.6	519.5	468.2	425.0	381.5	333.3	287.3	243.4
-82.5°	557.4	524.0	491.7	458.6	422.7	387.0	351.8	316.6	277.5	240.0	211.2
-85°	438.2	412.5	386.5	360.0	332.4	305.0	284.8	264.4	240.1	216.1	192.3
-87.5°	355.0	338.5	321.9	305.1	287.6	270.1	252.5	234.8	214.1	193.5	173.1
-90°	6.4	6.6	6.9	7.1	7.1	7.1	7.1	7.1	7.4	7.7	7.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	136.5	113.1	89.7	66.2	42.8	25.0	7.1
87.5°	12.9	12.5	12.0	11.3	10.4	9.1	7.1
85°	17.7	16.9	15.8	14.4	12.6	10.5	7.1
82.5°	22.4	21.2	19.6	17.4	14.8	11.9	7.1
80°	27.7	25.6	23.4	20.5	17.1	13.3	7.1
77.5°	36.9	31.7	27.2	23.6	19.3	14.7	7.1
75°	46.3	41.1	31.9	26.6	21.5	16.1	7.1
72.5°	55.9	50.7	40.7	29.7	23.8	17.5	7.1
70°	66.5	60.3	49.6	33.6	26.1	18.9	7.1
67.5°	82.8	70.2	58.6	41.1	28.4	20.3	7.1
65°	99.5	83.1	67.6	48.6	30.7	21.7	7.1
62.5°	116.7	99.1	76.7	56.1	33.0	23.0	7.1
60°	134.4	115.3	85.8	63.5	35.3	24.4	7.1
57.5°	158.8	131.8	99.8	71.0	40.8	25.7	7.1
55°	184.4	148.5	114.0	78.4	46.2	27.0	7.1
52.5°	210.5	166.5	128.3	85.7	51.5	28.3	7.1
50°	237.0	189.4	142.6	93.0	56.7	29.6	7.1
47.5°	264.9	212.3	156.9	101.2	61.8	30.8	7.1
45°	298.3	235.4	171.2	112.0	66.8	32.0	7.1
42.5°	331.9	258.5	185.5	122.6	71.6	33.2	7.1
40°	365.6	281.6	201.7	133.1	76.4	34.4	7.1
37.5°	399.5	304.7	219.6	143.4	81.0	35.5	7.1
35°	433.3	330.5	237.3	153.3	85.5	36.6	7.1
32.5°	469.0	357.4	254.6	162.8	89.8	37.7	7.1
30°	508.6	383.8	271.5	172.0	93.9	38.7	7.1
27.5°	547.8	409.7	286.9	180.7	97.8	39.7	7.1
25°	586.3	434.9	301.5	189.1	101.6	40.6	7.1
22.5°	624.0	458.2	315.3	196.9	105.2	41.5	7.1
20°	660.7	477.6	328.2	204.3	108.5	42.4	7.1
17.5°	689.5	495.5	340.3	211.2	111.6	43.2	7.1
15°	711.9	511.9	351.5	217.6	114.5	43.9	7.1
12.5°	731.7	526.8	361.8	223.4	117.1	44.6	7.1
10°	748.9	540.0	371.1	228.7	119.5	45.2	7.1
7.5°	763.4	551.7	379.3	233.3	121.6	45.7	7.1
5°	775.4	561.7	386.5	237.3	123.5	46.2	7.1
2.5°	784.8	570.1	392.5	240.8	125.0	46.6	7.1
0°	791.7	576.7	397.4	243.5	126.3	46.9	7.1
-2.5°	810.7	587.5	403.9	247.2	128.2	47.8	7.1
-5°	827.0	596.4	409.2	250.2	129.9	48.7	7.1
-7.5°	840.2	603.4	413.1	252.5	131.2	49.4	7.1
-10°	850.2	608.3	415.8	254.0	132.2	50.1	7.1
-12.5°	856.7	611.2	417.0	254.8	132.9	50.7	7.1
-15°	859.4	611.9	416.9	254.8	133.2	51.2	7.1
-17.5°	858.3	610.3	415.3	254.0	133.3	51.6	7.1
-20°	853.6	606.4	412.2	252.5	133.0	51.9	7.1



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	846.1	600.1	407.7	250.1	132.3	52.1	7.1
-25°	835.3	594.0	401.6	247.0	131.3	52.3	7.1
-27.5°	821.1	586.4	394.0	243.0	130.1	52.3	7.1
-30°	803.7	576.2	385.1	238.2	128.4	52.2	7.1
-32.5°	783.0	563.4	377.0	232.6	126.5	52.1	7.1
-35°	763.7	548.1	367.3	226.2	124.2	51.8	7.1
-37.5°	743.0	531.7	355.9	219.0	121.6	51.5	7.1
-40°	719.0	515.9	343.0	211.1	118.7	51.1	7.1
-42.5°	691.7	497.9	330.9	202.8	115.5	50.5	7.1
-45°	661.1	477.8	320.1	194.6	111.9	49.9	7.1
-47.5°	627.3	455.6	308.0	185.6	108.1	49.2	7.1
-50°	596.7	431.3	294.6	179.3	104.0	48.4	7.1
-52.5°	564.4	405.0	280.0	173.4	99.6	47.4	7.1
-55°	529.6	383.4	264.3	166.8	94.9	46.5	7.1
-57.5°	492.5	361.4	247.4	159.6	90.0	45.4	7.1
-60°	454.2	337.9	229.7	151.9	84.8	44.2	7.1
-62.5°	422.9	313.0	217.5	143.5	82.1	43.0	7.1
-65°	389.9	286.8	204.5	134.6	79.3	41.6	7.1
-67.5°	355.2	263.5	190.6	125.2	76.2	40.3	7.1
-70°	319.0	243.5	176.0	115.2	73.1	38.8	7.1
-72.5°	290.2	222.5	160.7	109.1	69.7	37.3	7.1
-75°	261.6	200.6	144.7	103.6	66.2	35.7	7.1
-77.5°	231.8	177.8	135.0	97.9	62.6	34.0	7.1
-80°	201.2	162.3	126.5	92.0	58.8	32.3	7.1
-82.5°	184.1	150.4	117.7	85.8	55.0	30.5	7.1
-85°	168.6	138.3	108.5	79.4	51.0	28.7	7.1
-87.5°	152.7	125.8	99.2	72.9	46.9	26.8	7.1
-90°	8.2	8.2	8.2	8.2	8.2	7.7	7.1

(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

