

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: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-7F-VHE-S**

Issue Date: 8/29/2023

**Test Information**

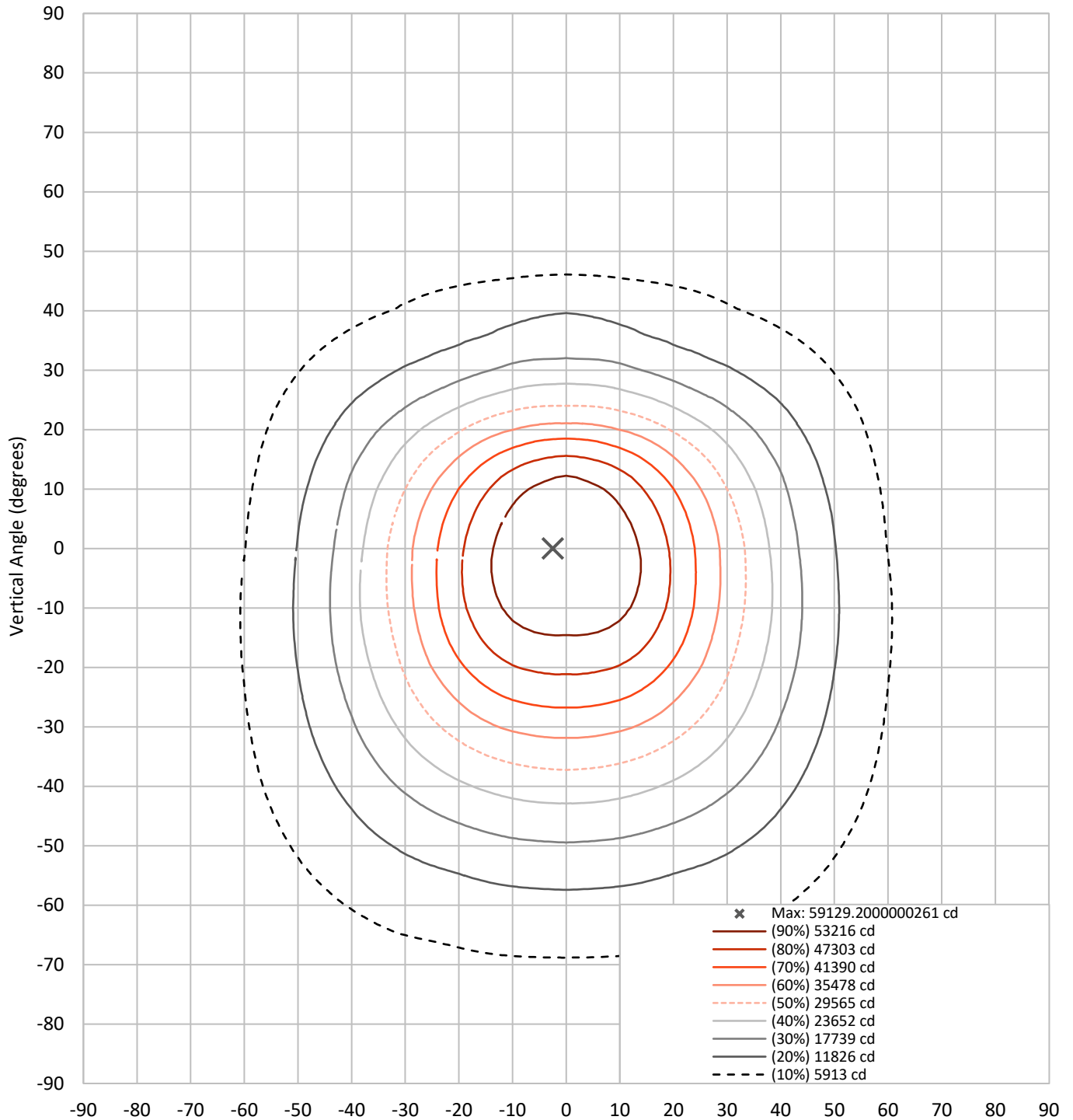
Test Method: LM-79-08  
Report Number: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-80-7F-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 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:	78663.6 lumens	Max Intensity:	59129.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	112.8 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:	42710.5 lumens	Field Lumens:	73714.9 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	697.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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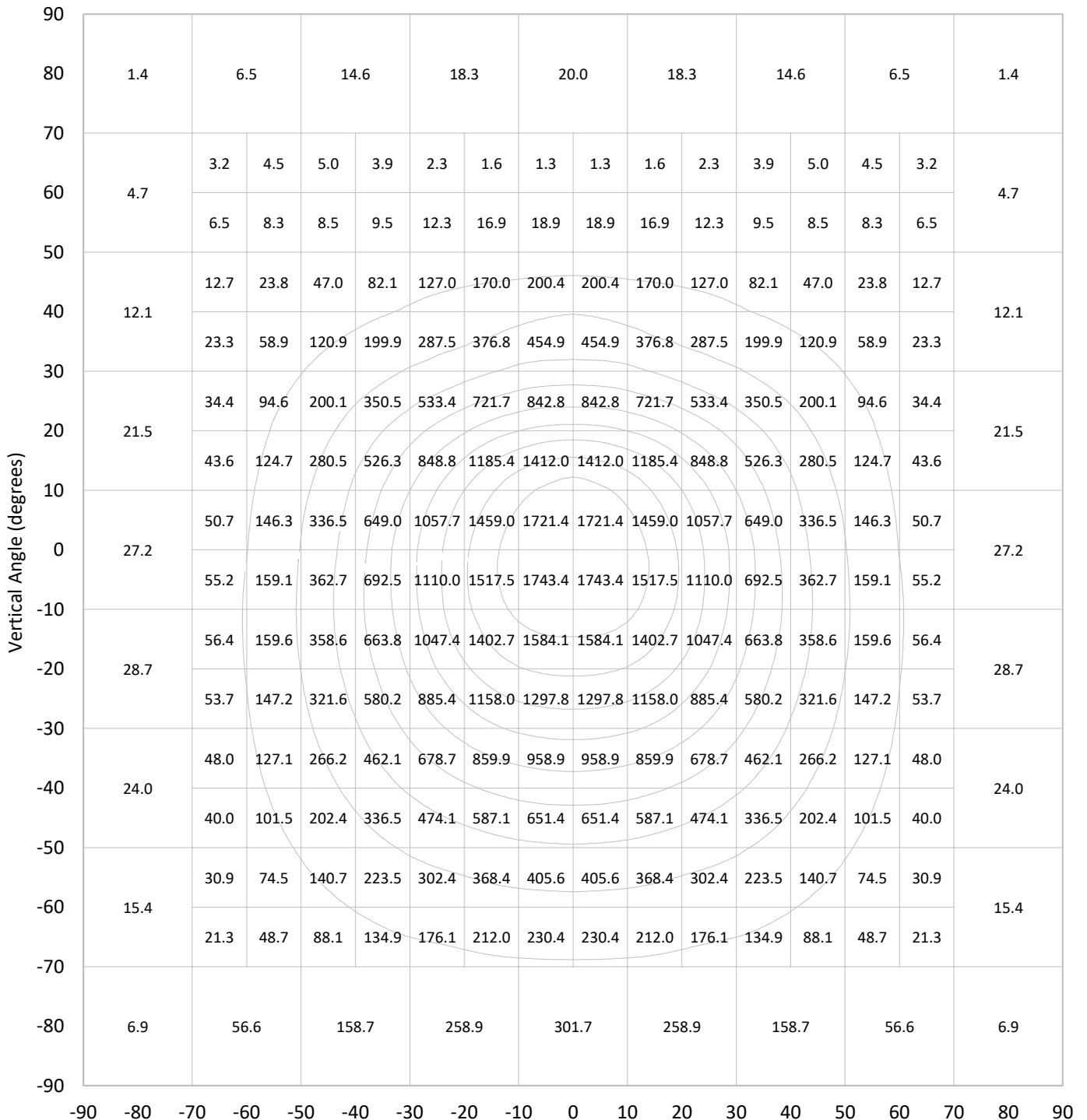
### Iso-Candela Plot





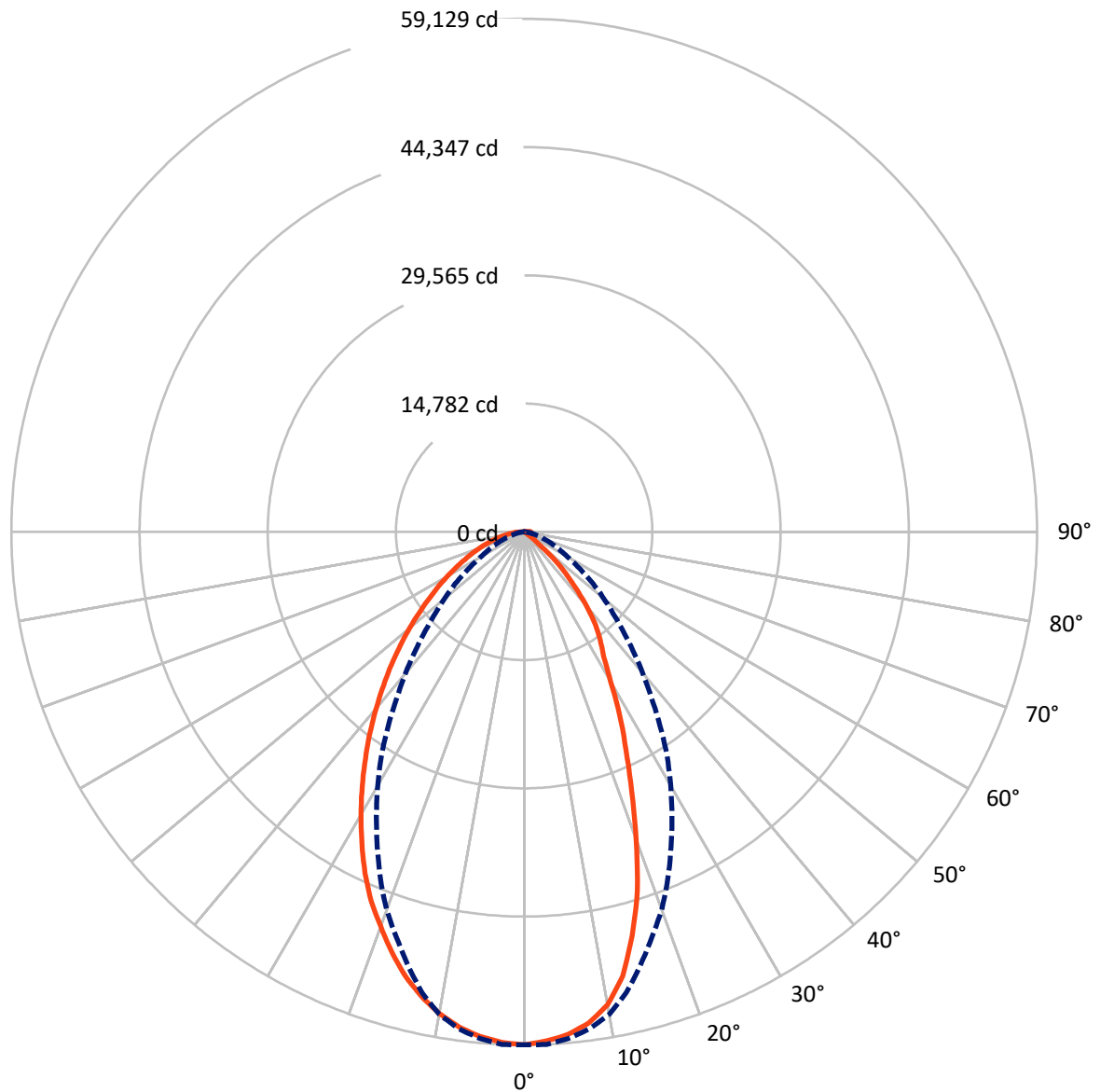
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### Lumen Table



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
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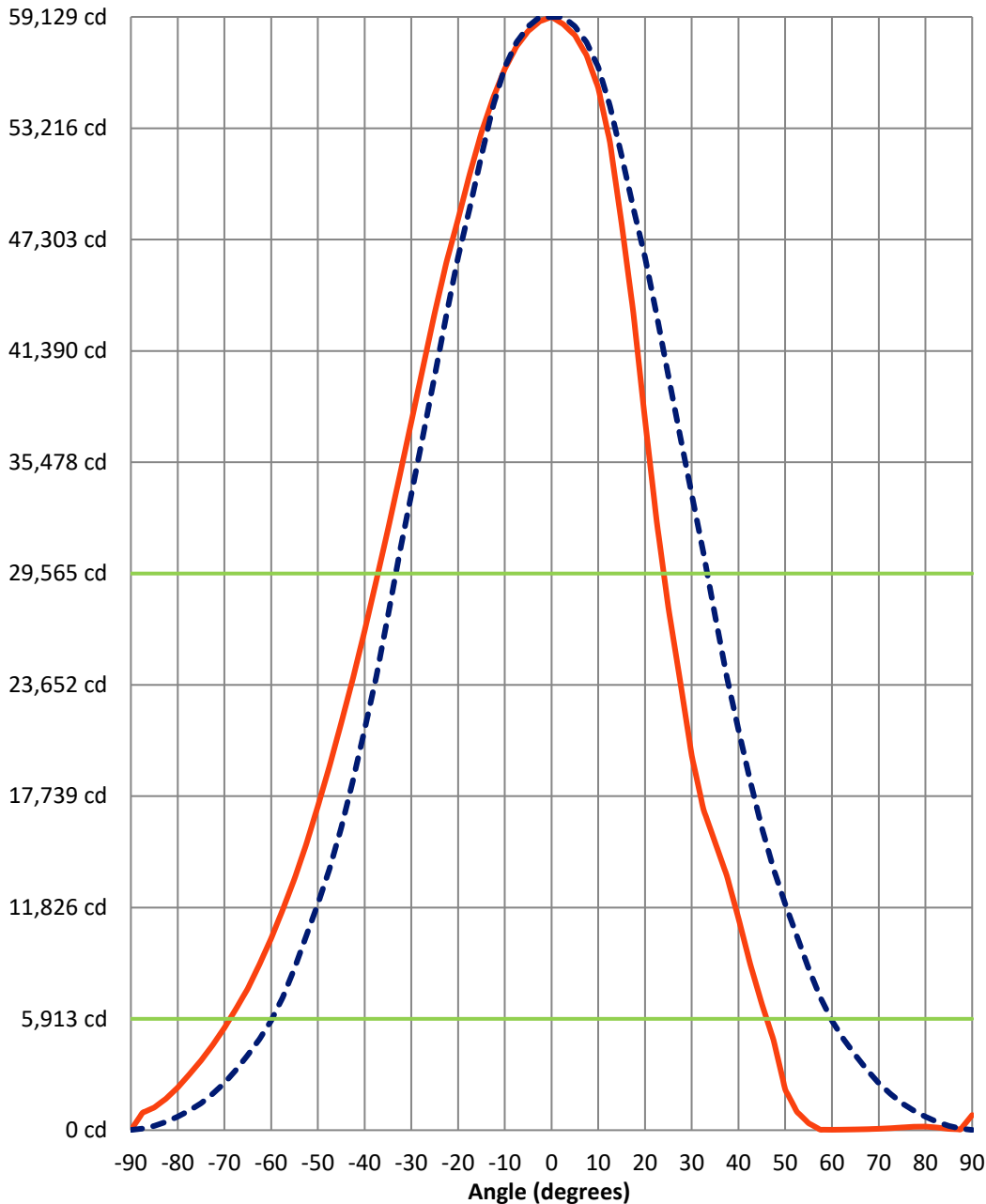
### Luminous Intensity Polar Plot



— 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: 42710.5  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 73714.9  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 4948.7  
 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°	12.9	45.1	77.2	119.5	161.9	204.2	246.5	277.3	308.1	338.9	369.7
87.5°	12.9	16.4	18.7	20.3	21.6	22.6	23.3	23.2	22.9	22.3	21.4
85°	12.9	18.9	22.7	25.9	28.4	30.4	31.8	32.3	32.1	31.3	30.1
82.5°	12.9	21.5	26.7	31.4	35.3	38.3	40.5	41.3	42.0	45.1	47.5
80°	12.9	24.0	30.8	37.0	42.2	46.2	50.0	56.4	61.9	66.5	70.2
77.5°	12.9	26.6	34.8	42.5	49.0	57.2	66.6	74.6	81.8	88.0	90.8
75°	12.9	29.1	38.9	48.1	57.5	74.2	83.6	92.7	102.1	108.4	105.3
72.5°	12.9	31.6	43.0	53.6	73.5	91.5	100.9	113.1	126.8	129.5	121.5
70°	12.9	34.1	47.1	60.6	89.6	108.9	120.1	140.5	152.5	152.7	156.1
67.5°	12.9	36.6	51.2	74.2	105.7	126.7	149.5	168.7	180.0	195.7	196.9
65°	12.9	39.1	55.4	87.7	122.0	150.0	179.7	197.9	225.0	240.5	243.8
62.5°	12.9	41.5	59.6	101.2	138.4	178.9	210.7	238.4	271.5	290.2	302.5
60°	12.9	44.0	63.8	114.7	154.9	208.2	242.7	284.0	319.5	352.9	365.0
57.5°	12.9	46.4	73.6	128.1	180.1	238.0	286.6	331.5	380.0	418.5	437.9
55°	12.9	48.7	83.3	141.4	205.8	268.2	332.9	382.2	445.4	489.9	519.5
52.5°	12.9	51.0	92.9	154.7	231.6	300.6	380.0	446.1	512.9	574.7	607.2
50°	12.9	53.3	102.3	167.9	257.5	341.9	427.9	512.8	586.7	663.9	717.6
47.5°	12.9	55.6	111.5	182.6	283.3	383.3	478.2	581.0	672.8	757.8	839.4
45°	12.9	57.8	120.5	202.1	309.1	425.0	538.4	650.5	765.9	878.9	971.0
42.5°	12.9	60.0	129.3	221.3	334.9	466.7	599.1	729.2	862.1	1007.3	1148.0
40°	12.9	62.1	137.9	240.3	364.1	508.4	660.0	814.8	966.8	1141.8	1344.8
37.5°	12.9	64.1	146.2	258.8	396.5	550.0	721.1	901.5	1083.8	1285.7	1555.4
35°	12.9	66.1	154.3	276.7	428.4	596.5	782.3	989.1	1199.8	1453.3	1790.4
32.5°	12.9	68.0	162.0	293.9	459.6	645.1	846.6	1077.4	1314.4	1614.1	1997.4
30°	12.9	69.9	169.5	310.5	490.1	692.8	918.2	1167.7	1427.4	1767.8	2191.5
27.5°	12.9	71.6	176.6	326.3	517.9	739.5	988.9	1261.9	1545.6	1914.2	2372.3
25°	12.9	73.3	183.4	341.3	544.2	785.0	1058.5	1353.5	1670.0	2063.5	2540.8
22.5°	12.9	74.9	189.9	355.5	569.0	827.1	1126.5	1442.3	1787.8	2207.7	2717.8
20°	12.9	76.4	195.9	368.9	592.5	862.1	1192.7	1528.0	1898.6	2340.5	2884.8
17.5°	12.9	77.9	201.5	381.3	614.3	894.4	1244.7	1610.2	2002.3	2462.1	3041.1
15°	12.9	79.2	206.8	392.8	634.5	924.0	1285.1	1679.3	2098.9	2572.5	3186.2
12.5°	12.9	80.4	211.5	403.3	653.0	950.9	1320.8	1733.2	2183.9	2672.0	3319.2
10°	12.9	81.5	215.8	412.8	669.8	974.9	1351.8	1783.3	2260.3	2788.9	3454.7
7.5°	12.9	82.4	219.7	421.2	684.6	995.9	1378.1	1829.0	2331.1	2904.6	3609.0
5°	12.9	83.3	223.0	428.5	697.5	1014.0	1399.7	1869.6	2395.5	3013.7	3750.3
2.5°	12.9	84.0	225.8	434.6	708.5	1029.0	1416.7	1904.5	2452.5	3114.2	3877.4
0°	12.9	84.6	228.1	439.6	717.3	1041.0	1429.1	1933.1	2501.4	3204.0	3989.4
-2.5°	12.9	86.3	231.6	446.2	729.0	1060.4	1463.5	1980.6	2562.4	3267.0	4060.3
-5°	12.9	87.8	234.5	451.6	738.5	1076.5	1492.8	2020.7	2613.9	3317.5	4114.9
-7.5°	12.9	89.1	236.9	455.7	745.7	1089.1	1516.7	2053.1	2655.5	3355.5	4153.2
-10°	12.9	90.4	238.7	458.5	750.5	1098.1	1534.7	2077.3	2686.8	3381.3	4174.9
-12.5°	12.9	91.4	240.0	459.9	752.8	1103.2	1546.4	2093.0	2707.4	3395.8	4191.9
-15°	12.9	92.3	240.6	460.0	752.5	1104.4	1551.4	2099.9	2714.5	3401.8	4196.0
-17.5°	12.9	93.1	240.6	458.6	749.6	1101.6	1549.4	2095.0	2706.6	3392.9	4180.5
-20°	12.9	93.7	240.1	455.8	744.1	1094.6	1540.9	2079.6	2686.8	3368.7	4144.8



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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°	12.9	94.1	238.9	451.5	735.9	1083.3	1527.3	2055.8	2654.8	3328.9	4088.7
-25°	12.9	94.3	237.2	445.8	724.9	1072.1	1507.7	2023.8	2610.3	3273.3	4011.9
-27.5°	12.9	94.4	234.8	438.6	711.1	1058.4	1482.2	1983.6	2553.3	3206.1	3936.5
-30°	12.9	94.3	231.9	430.0	695.1	1040.0	1450.7	1935.1	2493.3	3131.9	3843.3
-32.5°	12.9	94.0	228.3	419.9	680.4	1017.0	1413.4	1888.8	2429.2	3042.6	3731.4
-35°	12.9	93.6	224.2	408.4	662.9	989.4	1378.5	1838.7	2355.6	2938.2	3601.0
-37.5°	12.9	92.9	219.5	395.4	642.4	959.8	1341.2	1781.7	2272.8	2818.9	3465.5
-40°	12.9	92.1	214.3	381.0	619.0	931.2	1297.8	1718.0	2181.0	2707.0	3323.0
-42.5°	12.9	91.2	208.4	366.1	597.3	898.7	1248.5	1647.6	2093.8	2596.2	3166.9
-45°	12.9	90.0	202.1	351.4	577.7	862.4	1193.3	1575.7	2005.6	2472.2	3001.9
-47.5°	12.9	88.7	195.1	335.2	555.9	822.3	1132.3	1503.7	1909.9	2335.1	2846.3
-50°	12.9	87.3	187.7	323.7	531.8	778.4	1077.0	1424.6	1802.8	2212.3	2675.0
-52.5°	12.9	85.6	179.7	313.0	505.5	731.0	1018.7	1338.7	1694.6	2078.7	2492.5
-55°	12.9	83.8	171.3	301.2	477.0	691.9	956.0	1248.0	1581.6	1934.8	2328.1
-57.5°	12.9	81.9	162.4	288.2	446.5	652.3	888.9	1167.3	1461.2	1792.2	2152.2
-60°	12.9	79.8	153.1	274.1	414.7	610.0	819.8	1079.0	1338.2	1644.2	1971.2
-62.5°	12.9	77.6	148.2	259.0	392.7	565.0	763.4	985.0	1226.8	1488.3	1792.2
-65°	12.9	75.2	143.1	242.9	369.1	517.7	703.8	893.2	1109.8	1346.3	1604.6
-67.5°	12.9	72.7	137.6	225.9	344.1	475.7	641.2	814.3	987.7	1203.6	1431.1
-70°	12.9	70.0	131.8	208.0	317.7	439.5	575.8	732.5	889.8	1055.5	1260.2
-72.5°	12.9	67.2	125.8	196.9	290.0	401.6	523.9	647.8	789.4	937.5	1091.9
-75°	12.9	64.4	119.5	187.0	261.2	362.0	472.1	576.5	685.9	816.8	953.1
-77.5°	12.9	61.4	112.9	176.7	243.7	321.0	418.5	508.8	602.1	700.4	810.7
-80°	12.9	58.3	106.2	166.0	228.3	292.9	363.1	439.4	518.6	601.7	688.6
-82.5°	12.9	55.1	99.2	154.8	212.4	271.6	332.4	381.3	433.3	501.0	571.5
-85°	12.9	51.8	92.0	143.4	196.0	249.7	304.4	347.2	390.1	433.4	477.2
-87.5°	12.9	48.5	84.7	131.6	179.1	227.2	275.8	312.5	349.4	386.5	423.8
-90°	12.9	13.8	14.7	14.7	14.7	14.7	14.7	14.3	13.8	13.4	12.9





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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	396.8	424.0	451.1	478.2	504.9	531.6	558.2	584.9	609.7	634.6	659.4
87.5°	22.0	22.5	23.0	23.5	22.5	21.4	20.2	18.9	20.4	22.1	23.9
85°	31.1	32.2	34.9	37.0	38.4	40.3	42.8	45.7	51.1	56.4	61.7
82.5°	51.8	55.2	57.7	59.3	64.4	70.7	77.5	83.9	89.9	95.7	101.2
80°	74.8	78.4	79.1	80.0	86.8	95.1	103.9	113.1	120.5	127.2	133.6
77.5°	91.6	93.7	96.1	98.9	107.6	119.7	131.8	144.0	153.0	160.2	166.7
75°	104.9	108.7	117.4	122.9	132.7	146.8	161.0	174.7	183.6	188.6	191.9
72.5°	126.4	139.1	146.9	149.8	159.3	176.0	190.9	204.3	211.2	210.2	205.8
70°	159.5	171.3	181.5	185.2	189.4	205.6	217.8	227.3	231.5	223.1	206.6
67.5°	195.2	213.3	222.6	223.1	217.3	231.4	242.4	240.9	233.6	215.4	193.7
65°	241.1	258.4	266.7	263.3	247.7	250.8	250.1	243.5	226.7	201.7	175.7
62.5°	292.5	308.0	314.5	305.8	277.3	265.0	257.9	241.2	215.5	191.0	166.4
60°	357.9	361.3	365.5	349.9	314.0	280.1	266.8	250.0	222.5	188.9	168.7
57.5°	431.2	419.4	421.4	403.8	362.4	301.9	296.0	274.6	251.4	207.2	186.4
55°	515.7	483.4	488.6	472.6	434.6	367.0	344.0	340.9	308.5	273.6	235.2
52.5°	617.2	573.3	572.2	569.7	549.2	490.9	438.3	474.8	495.3	456.4	481.1
50°	731.2	709.3	676.3	714.6	726.8	695.9	649.6	751.8	874.9	931.2	929.7
47.5°	882.5	869.6	841.0	910.5	997.1	1076.6	1095.7	1280.2	1466.6	1672.7	1697.1
45°	1060.7	1093.5	1077.3	1224.6	1410.3	1624.0	1782.7	1961.7	2386.0	2632.1	2996.7
42.5°	1258.6	1354.1	1441.2	1580.4	2018.4	2290.4	2529.8	2979.2	3401.2	3758.0	4134.7
40°	1513.2	1638.9	1829.2	2207.8	2680.0	2994.8	3407.0	3919.0	4346.4	4749.3	5135.0
37.5°	1789.3	1999.3	2256.9	2799.7	3337.1	3731.5	4236.1	4744.0	5229.8	5681.9	6221.1
35°	2081.1	2360.9	2766.7	3333.7	3897.7	4447.0	5002.4	5568.1	6122.6	6742.0	7348.4
32.5°	2398.8	2722.9	3235.1	3837.2	4468.5	5106.7	5752.0	6412.3	7117.1	7839.4	8482.7
30°	2685.4	3126.3	3671.4	4324.5	5036.8	5769.8	6522.8	7282.8	8148.1	9003.1	9774.8
27.5°	2904.3	3495.7	4104.5	4826.3	5606.8	6424.2	7296.6	8238.4	9245.8	10225.9	11142.1
25°	3114.3	3779.9	4519.8	5328.0	6194.9	7114.0	8089.9	9144.2	10380.6	11528.8	12671.6
22.5°	3334.4	4066.3	4864.6	5816.8	6767.5	7813.5	8896.3	10109.7	11476.0	12833.5	14222.3
20°	3568.6	4362.7	5205.1	6209.2	7303.2	8502.6	9655.3	11067.6	12587.4	14164.9	15858.9
17.5°	3796.8	4635.1	5535.0	6593.3	7779.1	9122.5	10387.1	11994.7	13678.9	15483.2	17399.3
15°	4016.7	4883.4	5836.0	6946.5	8239.5	9665.6	11144.6	12906.1	14789.7	16781.7	18793.7
12.5°	4225.7	5107.5	6107.3	7267.2	8669.3	10193.3	11822.5	13675.1	15738.2	17940.1	20133.3
10°	4421.1	5307.6	6348.3	7553.7	9063.6	10696.5	12426.0	14362.6	16507.8	18776.3	21222.5
7.5°	4569.3	5473.7	6560.9	7804.5	9417.0	11165.5	12954.1	14965.0	17158.1	19520.8	22150.5
5°	4682.7	5608.7	6757.5	8094.0	9756.5	11553.5	13388.5	15478.7	17691.1	20161.4	22951.6
2.5°	4768.9	5722.8	6925.9	8363.0	10060.6	11817.9	13671.9	15815.8	18170.7	20759.6	23602.7
0°	4831.8	5814.0	7062.8	8593.1	10307.3	12012.4	13881.1	16060.6	18560.2	21265.8	24083.6
-2.5°	4938.7	5975.6	7254.3	8775.4	10461.3	12202.8	14150.6	16401.5	18929.7	21585.1	24498.2
-5°	5024.1	6108.7	7409.1	8912.6	10561.6	12327.5	14336.2	16638.6	19171.6	21800.2	24712.2
-7.5°	5086.1	6209.3	7525.3	9003.6	10628.6	12428.3	14466.0	16756.5	19262.1	21928.6	24745.7
-10°	5122.7	6256.9	7561.9	9030.5	10664.7	12482.5	14515.8	16773.8	19235.0	21898.4	24654.0
-12.5°	5136.5	6255.8	7550.6	9008.5	10637.0	12456.6	14476.4	16691.9	19093.2	21703.8	24420.3
-15°	5127.4	6223.8	7498.0	8937.0	10543.3	12347.4	14346.8	16512.9	18829.9	21307.4	23947.4
-17.5°	5095.2	6160.5	7403.6	8815.6	10382.2	12152.7	14115.9	16182.0	18451.8	20849.7	23346.5
-20°	5040.1	6066.2	7267.0	8644.2	10162.4	11897.0	13789.7	15789.7	17970.0	20303.5	22673.4



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4962.2	5940.7	7107.4	8451.0	9951.4	11606.5	13400.2	15317.8	17356.3	19651.7	21910.3
-25°	4872.7	5830.0	6940.4	8240.7	9684.7	11266.1	12944.1	14777.7	16701.7	18849.9	21036.2
-27.5°	4770.5	5695.4	6762.6	7988.5	9357.6	10887.7	12492.1	14213.3	16035.1	17966.7	20063.0
-30°	4644.3	5542.4	6549.5	7712.5	9026.1	10475.9	12018.6	13574.5	15300.2	17121.4	19042.8
-32.5°	4494.6	5357.6	6336.9	7444.5	8665.3	9999.3	11466.0	12945.5	14537.7	16223.3	18003.9
-35°	4334.4	5170.1	6100.1	7139.3	8269.6	9519.6	10859.2	12266.6	13730.9	15314.7	16881.2
-37.5°	4173.2	4955.6	5823.5	6816.1	7898.8	9009.4	10214.2	11553.1	12925.3	14325.6	15764.2
-40°	3991.8	4714.7	5548.3	6473.8	7454.0	8484.6	9613.5	10808.6	12084.3	13347.6	14637.1
-42.5°	3794.2	4492.4	5256.7	6082.5	6999.9	7958.8	8971.7	10090.1	11202.0	12349.4	13540.0
-45°	3606.6	4249.6	4946.2	5713.8	6524.7	7411.4	8356.9	9334.3	10335.3	11349.3	12433.2
-47.5°	3405.1	3997.4	4653.6	5318.9	6064.0	6866.6	7716.8	8596.3	9463.3	10393.1	11319.5
-50°	3195.2	3760.7	4326.1	4944.5	5606.3	6326.5	7097.7	7856.1	8648.9	9453.9	10289.0
-52.5°	2984.7	3510.0	4022.1	4563.4	5162.0	5801.6	6473.5	7151.2	7855.7	8564.4	9280.1
-55°	2757.4	3244.8	3709.5	4198.5	4723.3	5296.5	5865.3	6475.0	7085.6	7734.1	8322.2
-57.5°	2542.4	2958.0	3388.2	3834.9	4304.7	4792.6	5297.7	5807.8	6363.6	6922.8	7426.6
-60°	2330.5	2682.2	3057.8	3466.2	3886.7	4318.8	4737.5	5192.7	5662.9	6120.8	6581.9
-62.5°	2110.7	2422.1	2743.2	3089.7	3472.4	3844.6	4222.5	4606.2	4989.2	5395.5	5785.2
-65°	1893.9	2159.4	2444.2	2744.5	3052.0	3388.3	3720.6	4044.6	4386.8	4719.2	5042.1
-67.5°	1667.3	1910.5	2154.3	2404.5	2679.7	2954.2	3230.5	3528.1	3817.1	4088.8	4362.6
-70°	1464.9	1660.7	1876.5	2097.3	2316.2	2541.4	2786.8	3032.8	3274.2	3505.8	3742.7
-72.5°	1263.7	1439.3	1615.7	1792.5	1982.8	2172.5	2364.1	2557.1	2759.0	2961.0	3157.4
-75°	1084.3	1216.1	1369.3	1525.3	1673.9	1818.9	1967.2	2131.3	2292.7	2451.2	2608.2
-77.5°	920.9	1032.0	1146.9	1265.3	1378.4	1499.9	1622.0	1744.3	1864.7	1982.5	2098.0
-80°	767.2	845.1	937.6	1033.5	1123.3	1211.9	1300.4	1388.8	1478.0	1571.3	1667.6
-82.5°	635.0	698.6	762.9	827.8	887.5	945.8	1006.1	1075.1	1145.7	1215.7	1285.0
-85°	514.2	550.6	600.0	649.9	697.6	744.6	791.0	836.7	883.6	929.9	975.4
-87.5°	455.8	487.6	519.2	550.7	581.0	611.1	640.9	670.4	700.6	730.8	760.9
-90°	12.9	12.9	12.9	12.9	12.4	12.0	11.5	11.0	10.6	10.1	9.7



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	684.2	692.0	699.9	707.7	715.5	733.9	752.3	770.7	789.1	793.2	797.4
87.5°	25.7	25.8	25.8	25.8	25.7	29.8	34.0	38.4	42.8	42.3	41.7
85°	66.9	67.9	68.3	68.3	68.0	73.6	79.4	84.9	90.3	86.7	82.5
82.5°	106.5	108.4	110.2	112.2	114.2	120.1	125.9	131.4	136.5	138.3	139.8
80°	139.4	143.1	145.8	147.9	149.5	154.5	159.9	165.0	169.9	175.0	180.3
77.5°	171.4	172.5	171.9	170.2	167.6	168.3	169.5	170.0	170.1	172.8	175.9
75°	193.5	191.0	183.4	174.7	164.9	158.9	154.5	149.8	145.0	144.2	144.5
72.5°	198.4	188.3	175.8	160.4	145.2	134.6	127.4	120.5	113.9	110.7	108.8
70°	187.8	168.6	151.8	135.2	119.1	107.1	99.9	93.4	87.5	83.7	80.9
67.5°	169.1	145.3	127.7	110.6	94.8	82.5	76.2	70.5	65.3	61.4	58.6
65°	150.2	124.8	107.8	91.4	75.5	63.3	58.5	53.8	49.2	45.7	43.8
62.5°	139.6	113.0	95.4	81.1	66.7	52.5	47.6	42.7	37.9	34.2	32.6
60°	143.4	113.2	91.8	78.5	63.6	47.2	41.0	36.6	31.7	27.3	25.7
57.5°	165.8	132.9	100.9	95.7	80.6	56.5	58.7	68.4	61.2	42.2	40.0
55°	253.7	245.5	160.6	208.0	241.8	227.9	212.8	281.7	315.3	317.1	348.2
52.5°	504.1	563.7	541.5	567.3	707.2	763.8	756.4	879.5	943.4	934.7	968.0
50°	1061.5	1183.4	1333.4	1357.5	1592.2	1754.9	1794.1	1936.8	2095.2	2155.8	2224.0
47.5°	2071.7	2357.2	2502.1	2665.4	2935.4	3231.3	3460.6	3665.9	3888.4	4040.5	4224.2
45°	3374.8	3576.5	3828.5	4207.8	4620.0	5006.2	5368.9	5699.5	5917.5	6111.9	6318.2
42.5°	4446.8	4768.9	5191.6	5757.4	6343.9	6740.3	7038.7	7357.3	7697.9	8021.6	8320.2
40°	5544.4	5917.8	6588.4	7229.6	7667.2	8049.8	8458.2	8890.5	9335.8	9760.5	10182.9
37.5°	6720.8	7272.6	7859.9	8420.3	8883.3	9245.2	9804.9	10283.8	10730.0	11362.5	11942.6
35°	7972.6	8572.2	9076.9	9717.8	10235.5	10681.9	11267.6	11870.7	12256.9	13124.5	13875.7
32.5°	9218.0	9916.9	10589.6	11198.3	11840.7	12529.0	13099.1	13926.4	14555.8	15385.7	16201.5
30°	10515.6	11473.7	12313.5	12981.4	13856.6	14746.4	15546.2	16520.4	17448.2	18220.5	19085.2
27.5°	12153.1	13218.3	14242.4	15271.8	16206.7	17317.9	18591.0	19621.5	20809.2	21651.4	22555.7
25°	13890.3	15159.2	16521.5	17848.4	19074.9	20512.3	21955.6	23214.7	24445.8	25416.1	26382.5
22.5°	15779.4	17313.9	18935.2	20605.6	22263.6	23838.4	25387.7	26945.9	28364.8	29698.5	30627.6
20°	17697.9	19402.0	21370.8	23383.4	25292.5	27070.0	28931.8	30902.2	32705.3	34250.9	35395.5
17.5°	19428.7	21566.1	23731.5	25939.6	28092.7	30289.5	32599.5	34916.9	37051.8	38861.9	40381.5
15°	20987.8	23409.5	25916.4	28407.7	30883.7	33412.9	36112.1	38609.0	41001.8	43077.8	44854.4
12.5°	22525.3	25111.8	27799.1	30592.4	33527.7	36266.3	39014.5	41706.8	44214.4	46627.5	48407.3
10°	23886.0	26678.9	29555.9	32549.2	35589.3	38560.3	41457.0	44263.7	46727.4	49006.0	51159.2
7.5°	24994.7	27990.0	31060.6	34208.9	37337.8	40346.3	43296.5	46101.2	48601.9	50937.0	53138.9
5°	25951.0	29127.9	32296.9	35434.2	38582.6	41703.0	44681.6	47447.1	50051.9	52478.4	54685.0
2.5°	26731.4	30043.9	33254.9	36344.9	39480.6	42674.7	45728.4	48400.2	51123.0	53590.9	55762.9
0°	27317.0	30660.8	33769.2	36886.8	40061.4	43291.2	46362.8	48980.1	51751.9	54389.4	56454.9
-2.5°	27637.3	30784.8	33878.7	37006.6	40276.9	43599.2	46666.6	49487.6	52243.5	54715.8	56636.2
-5°	27748.6	30844.8	33927.6	37111.9	40353.8	43624.0	46680.8	49509.3	52155.8	54468.4	56219.8
-7.5°	27673.9	30739.7	33791.6	36944.6	40166.0	43397.1	46404.8	49110.4	51659.0	53849.4	55520.7
-10°	27448.5	30417.4	33470.4	36571.5	39799.8	42989.7	45937.3	48378.2	50811.6	52866.6	54446.8
-12.5°	27075.9	29918.5	32929.4	35961.9	39129.2	42195.5	44942.2	47372.6	49546.9	51628.4	53011.6
-15°	26547.3	29287.9	32166.6	35136.0	38136.8	41103.2	43781.3	46130.3	48144.7	49786.7	51243.4
-17.5°	25884.4	28528.7	31287.1	34132.6	36919.1	39741.3	42223.2	44577.3	46514.9	47976.6	49107.0
-20°	25068.3	27634.6	30272.5	32989.2	35578.2	37978.4	40371.0	42560.0	44475.2	45904.5	46990.8



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	24206.9	26628.1	29127.2	31576.8	33934.5	36190.8	38357.8	40366.8	42188.0	43539.3	44579.0
-25°	23226.8	25491.1	27801.9	30014.1	32167.4	34268.1	36232.3	38093.9	39683.6	40998.2	41963.5
-27.5°	22153.5	24261.8	26347.4	28404.9	30402.7	32218.7	34025.9	35706.4	37104.5	38313.5	39168.3
-30°	20980.5	22908.7	24863.3	26792.0	28520.2	30156.1	31761.8	33220.5	34502.0	35563.5	36330.2
-32.5°	19743.5	21505.0	23318.0	25062.0	26577.5	28053.4	29453.5	30732.3	31907.4	32845.4	33536.8
-35°	18464.5	20096.5	21724.7	23232.5	24645.1	25958.0	27164.4	28297.8	29271.3	30126.3	30804.1
-37.5°	17206.6	18676.5	20089.5	21406.1	22711.3	23915.3	24969.1	25963.6	26848.6	27561.7	28155.9
-40°	15972.8	17274.0	18477.0	19648.9	20815.1	21834.4	22791.3	23648.9	24432.1	25113.4	25641.3
-42.5°	14746.4	15866.8	16905.2	17959.8	18968.1	19852.0	20685.2	21428.3	22108.0	22718.5	23230.4
-45°	13515.5	14473.8	15397.9	16325.1	17162.4	17949.7	18673.8	19326.7	19933.9	20448.0	20867.7
-47.5°	12258.3	13108.4	13947.9	14751.3	15445.9	16126.2	16749.7	17336.1	17883.3	18345.6	18716.4
-50°	11057.9	11809.3	12561.0	13225.1	13809.1	14375.6	14903.3	15469.5	15976.0	16397.2	16703.6
-52.5°	9930.9	10610.3	11256.5	11800.4	12294.0	12736.4	13141.7	13667.7	14144.5	14558.2	14829.9
-55°	8904.6	9486.0	10040.0	10489.4	10901.6	11270.5	11638.4	12061.1	12446.0	12790.2	13017.3
-57.5°	7938.5	8431.4	8892.2	9270.6	9614.4	9922.8	10264.4	10617.8	10933.4	11205.1	11388.0
-60°	7022.6	7442.2	7824.4	8135.6	8421.3	8681.0	9006.0	9314.5	9587.3	9808.9	9945.4
-62.5°	6158.6	6534.9	6832.1	7082.4	7310.6	7529.4	7813.4	8079.9	8325.9	8522.4	8636.7
-65°	5367.5	5697.0	5917.9	6116.0	6295.9	6492.9	6734.5	6951.2	7143.4	7289.4	7388.8
-67.5°	4646.3	4907.0	5081.2	5238.6	5392.7	5561.3	5766.3	5955.6	6128.5	6248.8	6323.1
-70°	3974.5	4175.5	4316.7	4450.6	4579.2	4723.8	4891.7	5048.2	5192.5	5285.9	5345.1
-72.5°	3347.8	3501.0	3617.7	3732.9	3836.7	3960.6	4097.6	4225.8	4345.0	4415.1	4460.2
-75°	2763.1	2880.5	2976.1	3064.5	3145.6	3249.9	3360.8	3465.0	3561.9	3615.5	3650.1
-77.5°	2220.9	2310.8	2382.7	2448.6	2508.3	2591.0	2676.4	2756.6	2831.4	2879.1	2917.4
-80°	1761.7	1816.1	1860.3	1901.5	1939.5	2001.3	2063.9	2122.9	2178.2	2209.4	2234.0
-82.5°	1353.2	1386.2	1412.6	1435.7	1455.5	1498.6	1541.5	1582.2	1620.4	1640.6	1657.7
-85°	1020.0	1037.8	1052.8	1066.1	1077.7	1107.7	1137.3	1165.9	1193.4	1199.2	1203.3
-87.5°	790.9	800.5	809.7	818.5	827.1	849.2	871.4	893.3	915.0	918.8	922.3
-90°	9.2	8.8	8.3	7.9	7.4	6.9	6.5	6.0	5.5	5.1	4.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	801.5	805.6	802.9	800.1	802.9	805.6	801.5	797.4	793.2	789.1	770.7
87.5°	41.1	40.4	40.5	40.5	40.5	40.4	41.1	41.7	42.3	42.8	38.4
85°	78.1	73.4	69.9	66.2	69.9	73.4	78.1	82.5	86.7	90.3	84.9
82.5°	141.4	142.7	142.3	141.6	142.3	142.7	141.4	139.8	138.3	136.5	131.4
80°	185.4	190.4	192.0	193.1	192.0	190.4	185.4	180.3	175.0	169.9	165.0
77.5°	179.0	182.1	183.0	183.9	183.0	182.1	179.0	175.9	172.8	170.1	170.0
75°	145.1	146.0	145.5	145.3	145.5	146.0	145.1	144.5	144.2	145.0	149.8
72.5°	107.2	105.9	105.1	104.8	105.1	105.9	107.2	108.8	110.7	113.9	120.5
70°	78.5	76.4	74.8	73.6	74.8	76.4	78.5	80.9	83.7	87.5	93.4
67.5°	56.2	54.2	52.7	51.5	52.7	54.2	56.2	58.6	61.4	65.3	70.5
65°	42.3	41.1	39.8	38.6	39.8	41.1	42.3	43.8	45.7	49.2	53.8
62.5°	31.2	30.0	29.5	29.4	29.5	30.0	31.2	32.6	34.2	37.9	42.7
60°	24.2	22.7	22.2	22.1	22.2	22.7	24.2	25.7	27.3	31.7	36.6
57.5°	36.2	30.9	27.8	25.7	27.8	30.9	36.2	40.0	42.2	61.2	68.4
55°	364.8	365.9	373.2	380.7	373.2	365.9	364.8	348.2	317.1	315.3	281.7
52.5°	993.5	990.3	981.3	963.8	981.3	990.3	993.5	968.0	934.7	943.4	879.5
50°	2264.9	2232.9	2163.7	2065.5	2163.7	2232.9	2264.9	2224.0	2155.8	2095.2	1936.8
47.5°	4471.4	4656.4	4784.4	4841.0	4784.4	4656.4	4471.4	4224.2	4040.5	3888.4	3665.9
45°	6533.0	6642.7	6706.7	6757.5	6706.7	6642.7	6533.0	6318.2	6111.9	5917.5	5699.5
42.5°	8574.3	8748.1	8833.8	8819.4	8833.8	8748.1	8574.3	8320.2	8021.6	7697.9	7357.3
40°	10588.8	10952.7	11251.5	11466.1	11251.5	10952.7	10588.8	10182.9	9760.5	9335.8	8890.5
37.5°	12516.4	13058.4	13516.2	13848.0	13516.2	13058.4	12516.4	11942.6	11362.5	10730.0	10283.8
35°	14490.2	14968.2	15281.9	15418.7	15281.9	14968.2	14490.2	13875.7	13124.5	12256.9	11870.7
32.5°	16721.7	16987.3	17043.6	17186.3	17043.6	16987.3	16721.7	16201.5	15385.7	14555.8	13926.4
30°	19611.7	19887.8	19894.5	20073.9	19894.5	19887.8	19611.7	19085.2	18220.5	17448.2	16520.4
27.5°	23268.6	23733.4	23884.4	24043.1	23884.4	23733.4	23268.6	22555.7	21651.4	20809.2	19621.5
25°	27184.3	27617.6	27756.5	27703.3	27756.5	27617.6	27184.3	26382.5	25416.1	24445.8	23214.7
22.5°	31579.4	32141.3	32345.7	32242.6	32345.7	32141.3	31579.4	30627.6	29698.5	28364.8	26945.9
20°	36498.6	37309.5	37738.1	37931.5	37738.1	37309.5	36498.6	35395.5	34250.9	32705.3	30902.2
17.5°	41676.3	42871.3	43420.1	43581.8	43420.1	42871.3	41676.3	40381.5	38861.9	37051.8	34916.9
15°	46386.7	47430.1	48141.6	48507.4	48141.6	47430.1	46386.7	44854.4	43077.8	41001.8	38609.0
12.5°	50028.7	51358.6	52467.1	53061.4	52467.1	51358.6	50028.7	48407.3	46627.5	44214.4	41706.8
10°	52997.5	54340.3	55348.2	55836.9	55348.2	54340.3	52997.5	51159.2	49006.0	46727.4	44263.7
7.5°	55051.7	56299.6	57082.1	57402.1	57082.1	56299.6	55051.7	53138.9	50937.0	48601.9	46101.2
5°	56379.3	57572.5	58150.9	58358.6	58150.9	57572.5	56379.3	54685.0	52478.4	50051.9	47447.1
2.5°	57335.2	58279.3	58742.5	58772.4	58742.5	58279.3	57335.2	55762.9	53590.9	51123.0	48400.2
0°	57771.8	58621.6	59129.2	59120.0	59129.2	58621.6	57771.8	56454.9	54389.4	51751.9	48980.1
-2.5°	57793.0	58532.3	58893.1	58689.6	58893.1	58532.3	57793.0	56636.2	54715.8	52243.5	49487.6
-5°	57380.8	58104.4	58374.8	58312.6	58374.8	58104.4	57380.8	56219.8	54468.4	52155.8	49509.3
-7.5°	56640.8	57282.8	57558.8	57567.7	57558.8	57282.8	56640.8	55520.7	53849.4	51659.0	49110.4
-10°	55512.3	56048.7	56364.8	56274.7	56364.8	56048.7	55512.3	54446.8	52866.6	50811.6	48378.2
-12.5°	54019.5	54548.9	54817.0	54762.8	54817.0	54548.9	54019.5	53011.6	51628.4	49546.9	47372.6
-15°	52233.7	52736.9	52988.1	52964.0	52988.1	52736.9	52233.7	51243.4	49786.7	48144.7	46130.3
-17.5°	50022.8	50527.2	50784.4	50819.4	50784.4	50527.2	50022.8	49107.0	47976.6	46514.9	44577.3
-20°	47705.8	48150.7	48386.2	48389.7	48386.2	48150.7	47705.8	46990.8	45904.5	44475.2	42560.0



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	45304.1	45803.6	46083.1	46040.9	46083.1	45803.6	45304.1	44579.0	43539.3	42188.0	40366.8
-25°	42627.1	43127.7	43399.4	43388.7	43399.4	43127.7	42627.1	41963.5	40998.2	39683.6	38093.9
-27.5°	39769.2	40250.3	40512.7	40545.1	40512.7	40250.3	39769.2	39168.3	38313.5	37104.5	35706.4
-30°	36890.4	37364.8	37621.7	37642.7	37621.7	37364.8	36890.4	36330.2	35563.5	34502.0	33220.5
-32.5°	34069.6	34497.9	34735.2	34760.6	34735.2	34497.9	34069.6	33536.8	32845.4	31907.4	30732.3
-35°	31317.5	31693.9	31906.8	31975.9	31906.8	31693.9	31317.5	30804.1	30126.3	29271.3	28297.8
-37.5°	28639.0	28979.3	29184.9	29310.8	29184.9	28979.3	28639.0	28155.9	27561.7	26848.6	25963.6
-40°	26051.9	26350.0	26514.0	26516.9	26514.0	26350.0	26051.9	25641.3	25113.4	24432.1	23648.9
-42.5°	23609.6	23860.6	23985.9	23987.9	23985.9	23860.6	23609.6	23230.4	22718.5	22108.0	21428.3
-45°	21205.7	21451.2	21625.0	21734.8	21625.0	21451.2	21205.7	20867.7	20448.0	19933.9	19326.7
-47.5°	18999.3	19200.5	19338.5	19413.6	19338.5	19200.5	18999.3	18716.4	18345.6	17883.3	17336.1
-50°	16928.2	17089.0	17206.7	17276.4	17206.7	17089.0	16928.2	16703.6	16397.2	15976.0	15469.5
-52.5°	15014.2	15131.7	15173.9	15146.5	15173.9	15131.7	15014.2	14829.9	14558.2	14144.5	13667.7
-55°	13187.5	13304.5	13351.3	13334.8	13351.3	13304.5	13187.5	13017.3	12790.2	12446.0	12061.1
-57.5°	11531.9	11635.6	11718.7	11769.6	11718.7	11635.6	11531.9	11388.0	11205.1	10933.4	10617.8
-60°	10052.9	10129.7	10181.9	10202.5	10181.9	10129.7	10052.9	9945.4	9808.9	9587.3	9314.5
-62.5°	8717.0	8764.8	8801.9	8817.5	8801.9	8764.8	8717.0	8636.7	8522.4	8325.9	8079.9
-65°	7468.1	7526.4	7519.3	7478.5	7519.3	7526.4	7468.1	7388.8	7289.4	7143.4	6951.2
-67.5°	6379.2	6417.1	6449.7	6466.9	6449.7	6417.1	6379.2	6323.1	6248.8	6128.5	5955.6
-70°	5390.4	5421.5	5433.1	5429.6	5433.1	5421.5	5390.4	5345.1	5285.9	5192.5	5048.2
-72.5°	4494.2	4516.9	4521.4	4513.6	4521.4	4516.9	4494.2	4460.2	4415.1	4345.0	4225.8
-75°	3674.8	3689.9	3697.5	3697.0	3697.5	3689.9	3674.8	3650.1	3615.5	3561.9	3465.0
-77.5°	2949.3	2974.7	2963.9	2944.7	2963.9	2974.7	2949.3	2917.4	2879.1	2831.4	2756.6
-80°	2254.2	2269.7	2261.2	2247.6	2261.2	2269.7	2254.2	2234.0	2209.4	2178.2	2122.9
-82.5°	1672.4	1684.7	1670.7	1653.5	1670.7	1684.7	1672.4	1657.7	1640.6	1620.4	1582.2
-85°	1206.3	1208.1	1206.9	1204.7	1206.9	1208.1	1206.3	1203.3	1199.2	1193.4	1165.9
-87.5°	925.4	928.3	925.9	923.3	925.9	928.3	925.4	922.3	918.8	915.0	893.3
-90°	4.2	3.7	4.6	5.5	4.6	3.7	4.2	4.6	5.1	5.5	6.0





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	752.3	733.9	715.5	707.7	699.9	692.0	684.2	659.4	634.6	609.7	584.9
87.5°	34.0	29.8	25.7	25.8	25.8	25.8	25.7	23.9	22.1	20.4	18.9
85°	79.4	73.6	68.0	68.3	68.3	67.9	66.9	61.7	56.4	51.1	45.7
82.5°	125.9	120.1	114.2	112.2	110.2	108.4	106.5	101.2	95.7	89.9	83.9
80°	159.9	154.5	149.5	147.9	145.8	143.1	139.4	133.6	127.2	120.5	113.1
77.5°	169.5	168.3	167.6	170.2	171.9	172.5	171.4	166.7	160.2	153.0	144.0
75°	154.5	158.9	164.9	174.7	183.4	191.0	193.5	191.9	188.6	183.6	174.7
72.5°	127.4	134.6	145.2	160.4	175.8	188.3	198.4	205.8	210.2	211.2	204.3
70°	99.9	107.1	119.1	135.2	151.8	168.6	187.8	206.6	223.1	231.5	227.3
67.5°	76.2	82.5	94.8	110.6	127.7	145.3	169.1	193.7	215.4	233.6	240.9
65°	58.5	63.3	75.5	91.4	107.8	124.8	150.2	175.7	201.7	226.7	243.5
62.5°	47.6	52.5	66.7	81.1	95.4	113.0	139.6	166.4	191.0	215.5	241.2
60°	41.0	47.2	63.6	78.5	91.8	113.2	143.4	168.7	188.9	222.5	250.0
57.5°	58.7	56.5	80.6	95.7	100.9	132.9	165.8	186.4	207.2	251.4	274.6
55°	212.8	227.9	241.8	208.0	160.6	245.5	253.7	235.2	273.6	308.5	340.9
52.5°	756.4	763.8	707.2	567.3	541.5	563.7	504.1	481.1	456.4	495.3	474.8
50°	1794.1	1754.9	1592.2	1357.5	1333.4	1183.4	1061.5	929.7	931.2	874.9	751.8
47.5°	3460.6	3231.3	2935.4	2665.4	2502.1	2357.2	2071.7	1697.1	1672.7	1466.6	1280.2
45°	5368.9	5006.2	4620.0	4207.8	3828.5	3576.5	3374.8	2996.7	2632.1	2386.0	1961.7
42.5°	7038.7	6740.3	6343.9	5757.4	5191.6	4768.9	4446.8	4134.7	3758.0	3401.2	2979.2
40°	8458.2	8049.8	7667.2	7229.6	6588.4	5917.8	5544.4	5135.0	4749.3	4346.4	3919.0
37.5°	9804.9	9245.2	8883.3	8420.3	7859.9	7272.6	6720.8	6221.1	5681.9	5229.8	4744.0
35°	11267.6	10681.9	10235.5	9717.8	9076.9	8572.2	7972.6	7348.4	6742.0	6122.6	5568.1
32.5°	13099.1	12529.0	11840.7	11198.3	10589.6	9916.9	9218.0	8482.7	7839.4	7117.1	6412.3
30°	15546.2	14746.4	13856.6	12981.4	12313.5	11473.7	10515.6	9774.8	9003.1	8148.1	7282.8
27.5°	18591.0	17317.9	16206.7	15271.8	14242.4	13218.3	12153.1	11142.1	10225.9	9245.8	8238.4
25°	21955.6	20512.3	19074.9	17848.4	16521.5	15159.2	13890.3	12671.6	11528.8	10380.6	9144.2
22.5°	25387.7	23838.4	22263.6	20605.6	18935.2	17313.9	15779.4	14222.3	12833.5	11476.0	10109.7
20°	28931.8	27070.0	25292.5	23383.4	21370.8	19402.0	17697.9	15858.9	14164.9	12587.4	11067.6
17.5°	32599.5	30289.5	28092.7	25939.6	23731.5	21566.1	19428.7	17399.3	15483.2	13678.9	11994.7
15°	36112.1	33412.9	30883.7	28407.7	25916.4	23409.5	20987.8	18793.7	16781.7	14789.7	12906.1
12.5°	39014.5	36266.3	33527.7	30592.4	27799.1	25111.8	22525.3	20133.3	17940.1	15738.2	13675.1
10°	41457.0	38560.3	35589.3	32549.2	29555.9	26678.9	23886.0	21222.5	18776.3	16507.8	14362.6
7.5°	43296.5	40346.3	37337.8	34208.9	31060.6	27990.0	24994.7	22150.5	19520.8	17158.1	14965.0
5°	44681.6	41703.0	38582.6	35434.2	32296.9	29127.9	25951.0	22951.6	20161.4	17691.1	15478.7
2.5°	45728.4	42674.7	39480.6	36344.9	33254.9	30043.9	26731.4	23602.7	20759.6	18170.7	15815.8
0°	46362.8	43291.2	40061.4	36886.8	33769.2	30660.8	27317.0	24083.6	21265.8	18560.2	16060.6
-2.5°	46666.6	43599.2	40276.9	37006.6	33878.7	30784.8	27637.3	24498.2	21585.1	18929.7	16401.5
-5°	46680.8	43624.0	40353.8	37111.9	33927.6	30844.8	27748.6	24712.2	21800.2	19171.6	16638.6
-7.5°	46404.8	43397.1	40166.0	36944.6	33791.6	30739.7	27673.9	24745.7	21928.6	19262.1	16756.5
-10°	45937.3	42989.7	39799.8	36571.5	33470.4	30417.4	27448.5	24654.0	21898.4	19235.0	16773.8
-12.5°	44942.2	42195.5	39129.2	35961.9	32929.4	29918.5	27075.9	24420.3	21703.8	19093.2	16691.9
-15°	43781.3	41103.2	38136.8	35136.0	32166.6	29287.9	26547.3	23947.4	21307.4	18829.9	16512.9
-17.5°	42223.2	39741.3	36919.1	34132.6	31287.1	28528.7	25884.4	23346.5	20849.7	18451.8	16182.0
-20°	40371.0	37978.4	35578.2	32989.2	30272.5	27634.6	25068.3	22673.4	20303.5	17970.0	15789.7



REPORT NUMBER: P701650 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	38357.8	36190.8	33934.5	31576.8	29127.2	26628.1	24206.9	21910.3	19651.7	17356.3	15317.8
-25°	36232.3	34268.1	32167.4	30014.1	27801.9	25491.1	23226.8	21036.2	18849.9	16701.7	14777.7
-27.5°	34025.9	32218.7	30402.7	28404.9	26347.4	24261.8	22153.5	20063.0	17966.7	16035.1	14213.3
-30°	31761.8	30156.1	28520.2	26792.0	24863.3	22908.7	20980.5	19042.8	17121.4	15300.2	13574.5
-32.5°	29453.5	28053.4	26577.5	25062.0	23318.0	21505.0	19743.5	18003.9	16223.3	14537.7	12945.5
-35°	27164.4	25958.0	24645.1	23232.5	21724.7	20096.5	18464.5	16881.2	15314.7	13730.9	12266.6
-37.5°	24969.1	23915.3	22711.3	21406.1	20089.5	18676.5	17206.6	15764.2	14325.6	12925.3	11553.1
-40°	22791.3	21834.4	20815.1	19648.9	18477.0	17274.0	15972.8	14637.1	13347.6	12084.3	10808.6
-42.5°	20685.2	19852.0	18968.1	17959.8	16905.2	15866.8	14746.4	13540.0	12349.4	11202.0	10090.1
-45°	18673.8	17949.7	17162.4	16325.1	15397.9	14473.8	13515.5	12433.2	11349.3	10335.3	9334.3
-47.5°	16749.7	16126.2	15445.9	14751.3	13947.9	13108.4	12258.3	11319.5	10393.1	9463.3	8596.3
-50°	14903.3	14375.6	13809.1	13225.1	12561.0	11809.3	11057.9	10289.0	9453.9	8648.9	7856.1
-52.5°	13141.7	12736.4	12294.0	11800.4	11256.5	10610.3	9930.9	9280.1	8564.4	7855.7	7151.2
-55°	11638.4	11270.5	10901.6	10489.4	10040.0	9486.0	8904.6	8322.2	7734.1	7085.6	6475.0
-57.5°	10264.4	9922.8	9614.4	9270.6	8892.2	8431.4	7938.5	7426.6	6922.8	6363.6	5807.8
-60°	9006.0	8681.0	8421.3	8135.6	7824.4	7442.2	7022.6	6581.9	6120.8	5662.9	5192.7
-62.5°	7813.4	7529.4	7310.6	7082.4	6832.1	6534.9	6158.6	5785.2	5395.5	4989.2	4606.2
-65°	6734.5	6492.9	6295.9	6116.0	5917.9	5697.0	5367.5	5042.1	4719.2	4386.8	4044.6
-67.5°	5766.3	5561.3	5392.7	5238.6	5081.2	4907.0	4646.3	4362.6	4088.8	3817.1	3528.1
-70°	4891.7	4723.8	4579.2	4450.6	4316.7	4175.5	3974.5	3742.7	3505.8	3274.2	3032.8
-72.5°	4097.6	3960.6	3836.7	3732.9	3617.7	3501.0	3347.8	3157.4	2961.0	2759.0	2557.1
-75°	3360.8	3249.9	3145.6	3064.5	2976.1	2880.5	2763.1	2608.2	2451.2	2292.7	2131.3
-77.5°	2676.4	2591.0	2508.3	2448.6	2382.7	2310.8	2220.9	2098.0	1982.5	1864.7	1744.3
-80°	2063.9	2001.3	1939.5	1901.5	1860.3	1816.1	1761.7	1667.6	1571.3	1478.0	1388.8
-82.5°	1541.5	1498.6	1455.5	1435.7	1412.6	1386.2	1353.2	1285.0	1215.7	1145.7	1075.1
-85°	1137.3	1107.7	1077.7	1066.1	1052.8	1037.8	1020.0	975.4	929.9	883.6	836.7
-87.5°	871.4	849.2	827.1	818.5	809.7	800.5	790.9	760.9	730.8	700.6	670.4
-90°	6.5	6.9	7.4	7.9	8.3	8.8	9.2	9.7	10.1	10.6	11.0





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	558.2	531.6	504.9	478.2	451.1	424.0	396.8	369.7	338.9	308.1	277.3
87.5°	20.2	21.4	22.5	23.5	23.0	22.5	22.0	21.4	22.3	22.9	23.2
85°	42.8	40.3	38.4	37.0	34.9	32.2	31.1	30.1	31.3	32.1	32.3
82.5°	77.5	70.7	64.4	59.3	57.7	55.2	51.8	47.5	45.1	42.0	41.3
80°	103.9	95.1	86.8	80.0	79.1	78.4	74.8	70.2	66.5	61.9	56.4
77.5°	131.8	119.7	107.6	98.9	96.1	93.7	91.6	90.8	88.0	81.8	74.6
75°	161.0	146.8	132.7	122.9	117.4	108.7	104.9	105.3	108.4	102.1	92.7
72.5°	190.9	176.0	159.3	149.8	146.9	139.1	126.4	121.5	129.5	126.8	113.1
70°	217.8	205.6	189.4	185.2	181.5	171.3	159.5	156.1	152.7	152.5	140.5
67.5°	242.4	231.4	217.3	223.1	222.6	213.3	195.2	196.9	195.7	180.0	168.7
65°	250.1	250.8	247.7	263.3	266.7	258.4	241.1	243.8	240.5	225.0	197.9
62.5°	257.9	265.0	277.3	305.8	314.5	308.0	292.5	302.5	290.2	271.5	238.4
60°	266.8	280.1	314.0	349.9	365.5	361.3	357.9	365.0	352.9	319.5	284.0
57.5°	296.0	301.9	362.4	403.8	421.4	419.4	431.2	437.9	418.5	380.0	331.5
55°	344.0	367.0	434.6	472.6	488.6	483.4	515.7	519.5	489.9	445.4	382.2
52.5°	438.3	490.9	549.2	569.7	572.2	573.3	617.2	607.2	574.7	512.9	446.1
50°	649.6	695.9	726.8	714.6	676.3	709.3	731.2	717.6	663.9	586.7	512.8
47.5°	1095.7	1076.6	997.1	910.5	841.0	869.6	882.5	839.4	757.8	672.8	581.0
45°	1782.7	1624.0	1410.3	1224.6	1077.3	1093.5	1060.7	971.0	878.9	765.9	650.5
42.5°	2529.8	2290.4	2018.4	1580.4	1441.2	1354.1	1258.6	1148.0	1007.3	862.1	729.2
40°	3407.0	2994.8	2680.0	2207.8	1829.2	1638.9	1513.2	1344.8	1141.8	966.8	814.8
37.5°	4236.1	3731.5	3337.1	2799.7	2256.9	1999.3	1789.3	1555.4	1285.7	1083.8	901.5
35°	5002.4	4447.0	3897.7	3333.7	2766.7	2360.9	2081.1	1790.4	1453.3	1199.8	989.1
32.5°	5752.0	5106.7	4468.5	3837.2	3235.1	2722.9	2398.8	1997.4	1614.1	1314.4	1077.4
30°	6522.8	5769.8	5036.8	4324.5	3671.4	3126.3	2685.4	2191.5	1767.8	1427.4	1167.7
27.5°	7296.6	6424.2	5606.8	4826.3	4104.5	3495.7	2904.3	2372.3	1914.2	1545.6	1261.9
25°	8089.9	7114.0	6194.9	5328.0	4519.8	3779.9	3114.3	2540.8	2063.5	1670.0	1353.5
22.5°	8896.3	7813.5	6767.5	5816.8	4864.6	4066.3	3334.4	2717.8	2207.7	1787.8	1442.3
20°	9655.3	8502.6	7303.2	6209.2	5205.1	4362.7	3568.6	2884.8	2340.5	1898.6	1528.0
17.5°	10387.1	9122.5	7779.1	6593.3	5535.0	4635.1	3796.8	3041.1	2462.1	2002.3	1610.2
15°	11144.6	9665.6	8239.5	6946.5	5836.0	4883.4	4016.7	3186.2	2572.5	2098.9	1679.3
12.5°	11822.5	10193.3	8669.3	7267.2	6107.3	5107.5	4225.7	3319.2	2672.0	2183.9	1733.2
10°	12426.0	10696.5	9063.6	7553.7	6348.3	5307.6	4421.1	3454.7	2788.9	2260.3	1783.3
7.5°	12954.1	11165.5	9417.0	7804.5	6560.9	5473.7	4569.3	3609.0	2904.6	2331.1	1829.0
5°	13388.5	11553.5	9756.5	8094.0	6757.5	5608.7	4682.7	3750.3	3013.7	2395.5	1869.6
2.5°	13671.9	11817.9	10060.6	8363.0	6925.9	5722.8	4768.9	3877.4	3114.2	2452.5	1904.5
0°	13881.1	12012.4	10307.3	8593.1	7062.8	5814.0	4831.8	3989.4	3204.0	2501.4	1933.1
-2.5°	14150.6	12202.8	10461.3	8775.4	7254.3	5975.6	4938.7	4060.3	3267.0	2562.4	1980.6
-5°	14336.2	12327.5	10561.6	8912.6	7409.1	6108.7	5024.1	4114.9	3317.5	2613.9	2020.7
-7.5°	14466.0	12428.3	10628.6	9003.6	7525.3	6209.3	5086.1	4153.2	3355.5	2655.5	2053.1
-10°	14515.8	12482.5	10664.7	9030.5	7561.9	6256.9	5122.7	4174.9	3381.3	2686.8	2077.3
-12.5°	14476.4	12456.6	10637.0	9008.5	7550.6	6255.8	5136.5	4191.9	3395.8	2707.4	2093.0
-15°	14346.8	12347.4	10543.3	8937.0	7498.0	6223.8	5127.4	4196.0	3401.8	2714.5	2099.9
-17.5°	14115.9	12152.7	10382.2	8815.6	7403.6	6160.5	5095.2	4180.5	3392.9	2706.6	2095.0
-20°	13789.7	11897.0	10162.4	8644.2	7267.0	6066.2	5040.1	4144.8	3368.7	2686.8	2079.6



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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°	13400.2	11606.5	9951.4	8451.0	7107.4	5940.7	4962.2	4088.7	3328.9	2654.8	2055.8
-25°	12944.1	11266.1	9684.7	8240.7	6940.4	5830.0	4872.7	4011.9	3273.3	2610.3	2023.8
-27.5°	12492.1	10887.7	9357.6	7988.5	6762.6	5695.4	4770.5	3936.5	3206.1	2553.3	1983.6
-30°	12018.6	10475.9	9026.1	7712.5	6549.5	5542.4	4644.3	3843.3	3131.9	2493.3	1935.1
-32.5°	11466.0	9999.3	8665.3	7444.5	6336.9	5357.6	4494.6	3731.4	3042.6	2429.2	1888.8
-35°	10859.2	9519.6	8269.6	7139.3	6100.1	5170.1	4334.4	3601.0	2938.2	2355.6	1838.7
-37.5°	10214.2	9009.4	7898.8	6816.1	5823.5	4955.6	4173.2	3465.5	2818.9	2272.8	1781.7
-40°	9613.5	8484.6	7454.0	6473.8	5548.3	4714.7	3991.8	3323.0	2707.0	2181.0	1718.0
-42.5°	8971.7	7958.8	6999.9	6082.5	5256.7	4492.4	3794.2	3166.9	2596.2	2093.8	1647.6
-45°	8356.9	7411.4	6524.7	5713.8	4946.2	4249.6	3606.6	3001.9	2472.2	2005.6	1575.7
-47.5°	7716.8	6866.6	6064.0	5318.9	4653.6	3997.4	3405.1	2846.3	2335.1	1909.9	1503.7
-50°	7097.7	6326.5	5606.3	4944.5	4326.1	3760.7	3195.2	2675.0	2212.3	1802.8	1424.6
-52.5°	6473.5	5801.6	5162.0	4563.4	4022.1	3510.0	2984.7	2492.5	2078.7	1694.6	1338.7
-55°	5865.3	5296.5	4723.3	4198.5	3709.5	3244.8	2757.4	2328.1	1934.8	1581.6	1248.0
-57.5°	5297.7	4792.6	4304.7	3834.9	3388.2	2958.0	2542.4	2152.2	1792.2	1461.2	1167.3
-60°	4737.5	4318.8	3886.7	3466.2	3057.8	2682.2	2330.5	1971.2	1644.2	1338.2	1079.0
-62.5°	4222.5	3844.6	3472.4	3089.7	2743.2	2422.1	2110.7	1792.2	1488.3	1226.8	985.0
-65°	3720.6	3388.3	3052.0	2744.5	2444.2	2159.4	1893.9	1604.6	1346.3	1109.8	893.2
-67.5°	3230.5	2954.2	2679.7	2404.5	2154.3	1910.5	1667.3	1431.1	1203.6	987.7	814.3
-70°	2786.8	2541.4	2316.2	2097.3	1876.5	1660.7	1464.9	1260.2	1055.5	889.8	732.5
-72.5°	2364.1	2172.5	1982.8	1792.5	1615.7	1439.3	1263.7	1091.9	937.5	789.4	647.8
-75°	1967.2	1818.9	1673.9	1525.3	1369.3	1216.1	1084.3	953.1	816.8	685.9	576.5
-77.5°	1622.0	1499.9	1378.4	1265.3	1146.9	1032.0	920.9	810.7	700.4	602.1	508.8
-80°	1300.4	1211.9	1123.3	1033.5	937.6	845.1	767.2	688.6	601.7	518.6	439.4
-82.5°	1006.1	945.8	887.5	827.8	762.9	698.6	635.0	571.5	501.0	433.3	381.3
-85°	791.0	744.6	697.6	649.9	600.0	550.6	514.2	477.2	433.4	390.1	347.2
-87.5°	640.9	611.1	581.0	550.7	519.2	487.6	455.8	423.8	386.5	349.4	312.5
-90°	11.5	12.0	12.4	12.9	12.9	12.9	12.9	12.9	13.4	13.8	14.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	246.5	204.2	161.9	119.5	77.2	45.1	12.9
87.5°	23.3	22.6	21.6	20.3	18.7	16.4	12.9
85°	31.8	30.4	28.4	25.9	22.7	18.9	12.9
82.5°	40.5	38.3	35.3	31.4	26.7	21.5	12.9
80°	50.0	46.2	42.2	37.0	30.8	24.0	12.9
77.5°	66.6	57.2	49.0	42.5	34.8	26.6	12.9
75°	83.6	74.2	57.5	48.1	38.9	29.1	12.9
72.5°	100.9	91.5	73.5	53.6	43.0	31.6	12.9
70°	120.1	108.9	89.6	60.6	47.1	34.1	12.9
67.5°	149.5	126.7	105.7	74.2	51.2	36.6	12.9
65°	179.7	150.0	122.0	87.7	55.4	39.1	12.9
62.5°	210.7	178.9	138.4	101.2	59.6	41.5	12.9
60°	242.7	208.2	154.9	114.7	63.8	44.0	12.9
57.5°	286.6	238.0	180.1	128.1	73.6	46.4	12.9
55°	332.9	268.2	205.8	141.4	83.3	48.7	12.9
52.5°	380.0	300.6	231.6	154.7	92.9	51.0	12.9
50°	427.9	341.9	257.5	167.9	102.3	53.3	12.9
47.5°	478.2	383.3	283.3	182.6	111.5	55.6	12.9
45°	538.4	425.0	309.1	202.1	120.5	57.8	12.9
42.5°	599.1	466.7	334.9	221.3	129.3	60.0	12.9
40°	660.0	508.4	364.1	240.3	137.9	62.1	12.9
37.5°	721.1	550.0	396.5	258.8	146.2	64.1	12.9
35°	782.3	596.5	428.4	276.7	154.3	66.1	12.9
32.5°	846.6	645.1	459.6	293.9	162.0	68.0	12.9
30°	918.2	692.8	490.1	310.5	169.5	69.9	12.9
27.5°	988.9	739.5	517.9	326.3	176.6	71.6	12.9
25°	1058.5	785.0	544.2	341.3	183.4	73.3	12.9
22.5°	1126.5	827.1	569.0	355.5	189.9	74.9	12.9
20°	1192.7	862.1	592.5	368.9	195.9	76.4	12.9
17.5°	1244.7	894.4	614.3	381.3	201.5	77.9	12.9
15°	1285.1	924.0	634.5	392.8	206.8	79.2	12.9
12.5°	1320.8	950.9	653.0	403.3	211.5	80.4	12.9
10°	1351.8	974.9	669.8	412.8	215.8	81.5	12.9
7.5°	1378.1	995.9	684.6	421.2	219.7	82.4	12.9
5°	1399.7	1014.0	697.5	428.5	223.0	83.3	12.9
2.5°	1416.7	1029.0	708.5	434.6	225.8	84.0	12.9
0°	1429.1	1041.0	717.3	439.6	228.1	84.6	12.9
-2.5°	1463.5	1060.4	729.0	446.2	231.6	86.3	12.9
-5°	1492.8	1076.5	738.5	451.6	234.5	87.8	12.9
-7.5°	1516.7	1089.1	745.7	455.7	236.9	89.1	12.9
-10°	1534.7	1098.1	750.5	458.5	238.7	90.4	12.9
-12.5°	1546.4	1103.2	752.8	459.9	240.0	91.4	12.9
-15°	1551.4	1104.4	752.5	460.0	240.6	92.3	12.9
-17.5°	1549.4	1101.6	749.6	458.6	240.6	93.1	12.9
-20°	1540.9	1094.6	744.1	455.8	240.1	93.7	12.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1527.3	1083.3	735.9	451.5	238.9	94.1	12.9
-25°	1507.7	1072.1	724.9	445.8	237.2	94.3	12.9
-27.5°	1482.2	1058.4	711.1	438.6	234.8	94.4	12.9
-30°	1450.7	1040.0	695.1	430.0	231.9	94.3	12.9
-32.5°	1413.4	1017.0	680.4	419.9	228.3	94.0	12.9
-35°	1378.5	989.4	662.9	408.4	224.2	93.6	12.9
-37.5°	1341.2	959.8	642.4	395.4	219.5	92.9	12.9
-40°	1297.8	931.2	619.0	381.0	214.3	92.1	12.9
-42.5°	1248.5	898.7	597.3	366.1	208.4	91.2	12.9
-45°	1193.3	862.4	577.7	351.4	202.1	90.0	12.9
-47.5°	1132.3	822.3	555.9	335.2	195.1	88.7	12.9
-50°	1077.0	778.4	531.8	323.7	187.7	87.3	12.9
-52.5°	1018.7	731.0	505.5	313.0	179.7	85.6	12.9
-55°	956.0	691.9	477.0	301.2	171.3	83.8	12.9
-57.5°	888.9	652.3	446.5	288.2	162.4	81.9	12.9
-60°	819.8	610.0	414.7	274.1	153.1	79.8	12.9
-62.5°	763.4	565.0	392.7	259.0	148.2	77.6	12.9
-65°	703.8	517.7	369.1	242.9	143.1	75.2	12.9
-67.5°	641.2	475.7	344.1	225.9	137.6	72.7	12.9
-70°	575.8	439.5	317.7	208.0	131.8	70.0	12.9
-72.5°	523.9	401.6	290.0	196.9	125.8	67.2	12.9
-75°	472.1	362.0	261.2	187.0	119.5	64.4	12.9
-77.5°	418.5	321.0	243.7	176.7	112.9	61.4	12.9
-80°	363.1	292.9	228.3	166.0	106.2	58.3	12.9
-82.5°	332.4	271.6	212.4	154.8	99.2	55.1	12.9
-85°	304.4	249.7	196.0	143.4	92.0	51.8	12.9
-87.5°	275.8	227.2	179.1	131.6	84.7	48.5	12.9
-90°	14.7	14.7	14.7	14.7	14.7	13.8	12.9

(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

