

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: P701722 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-7F-VHE-S**

Issue Date: 8/29/2023

**Test Information**

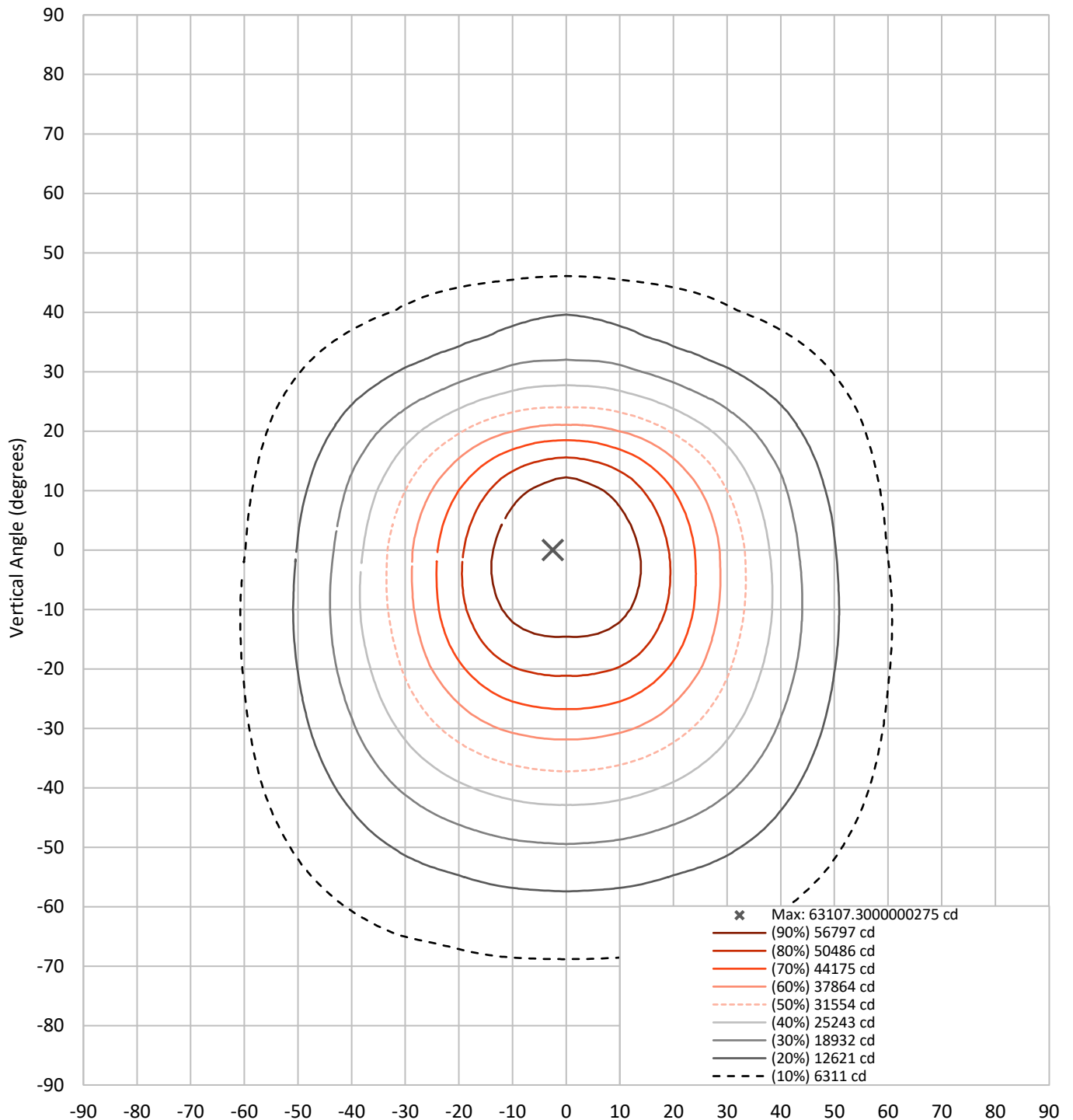
Test Method: LM-79-08  
Report Number: P701722 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-70-7F-VHE-S  
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:	83955.9 lumens	Max Intensity:	63107.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	120.4 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:	45584 lumens	Field Lumens:	78674.2 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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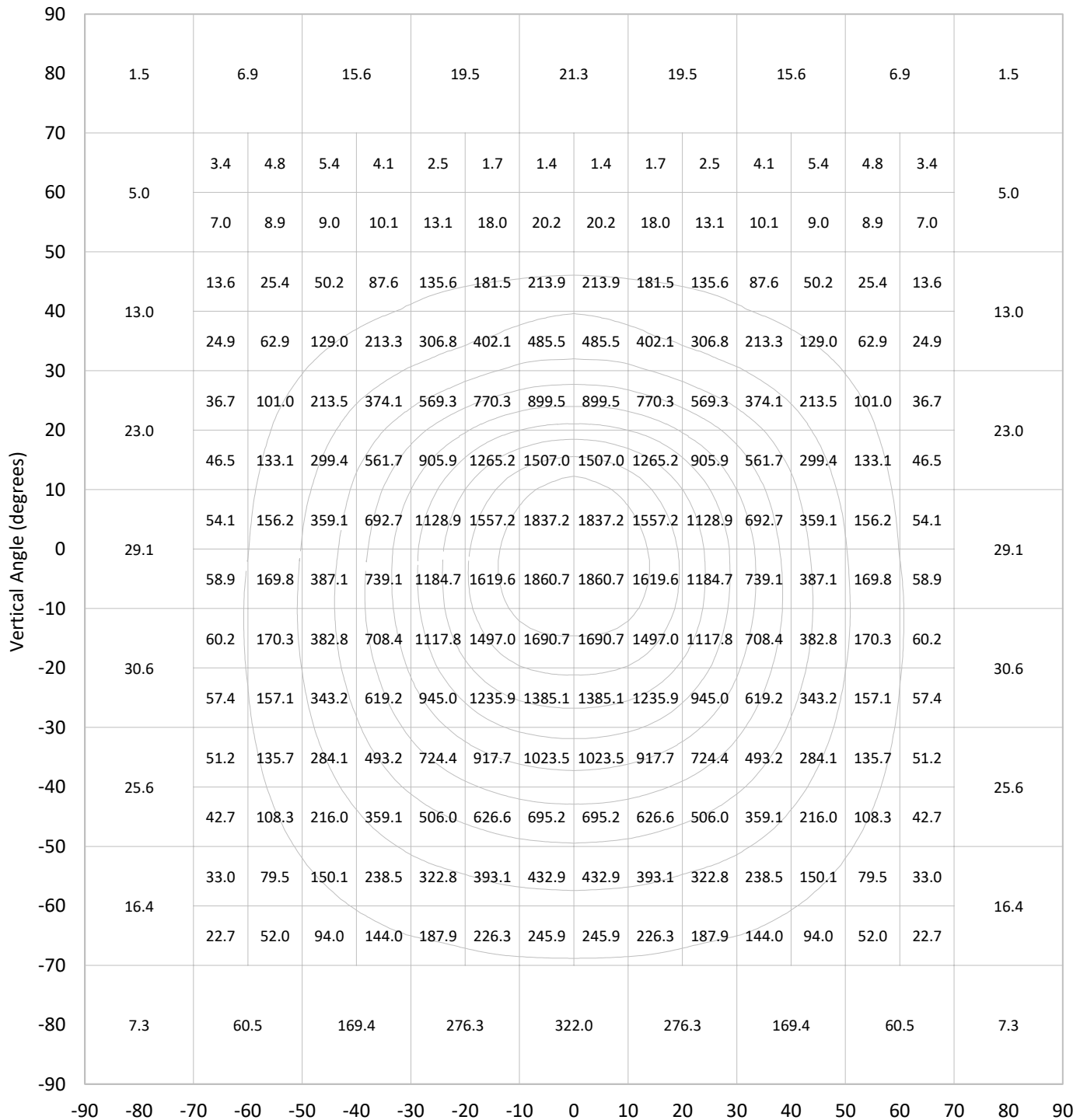
### Iso-Candela Plot





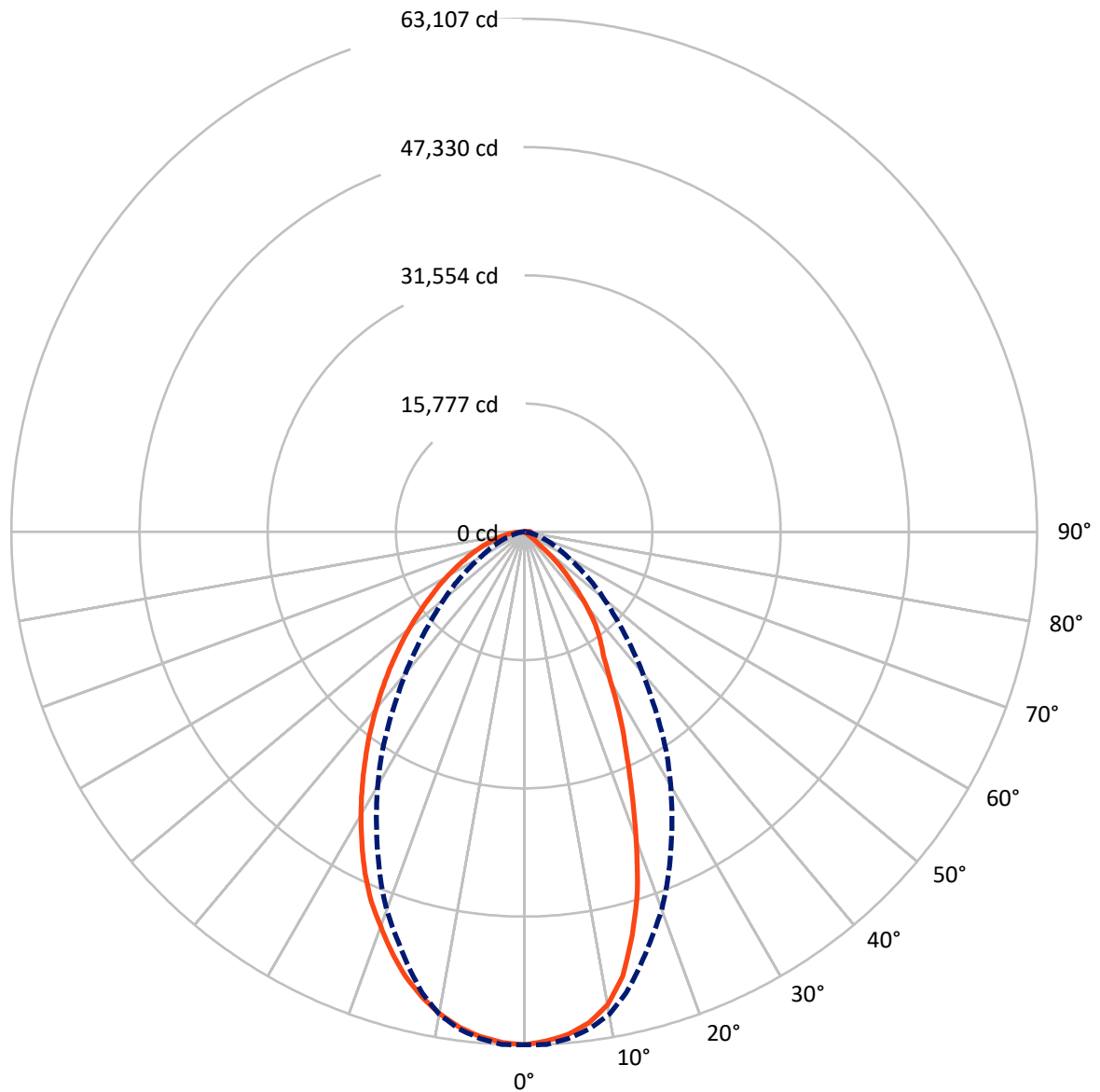
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### Lumen Table



REPORT NUMBER: P701722 (CONVERTED FROM TYPE C PHOTOMETRY)  
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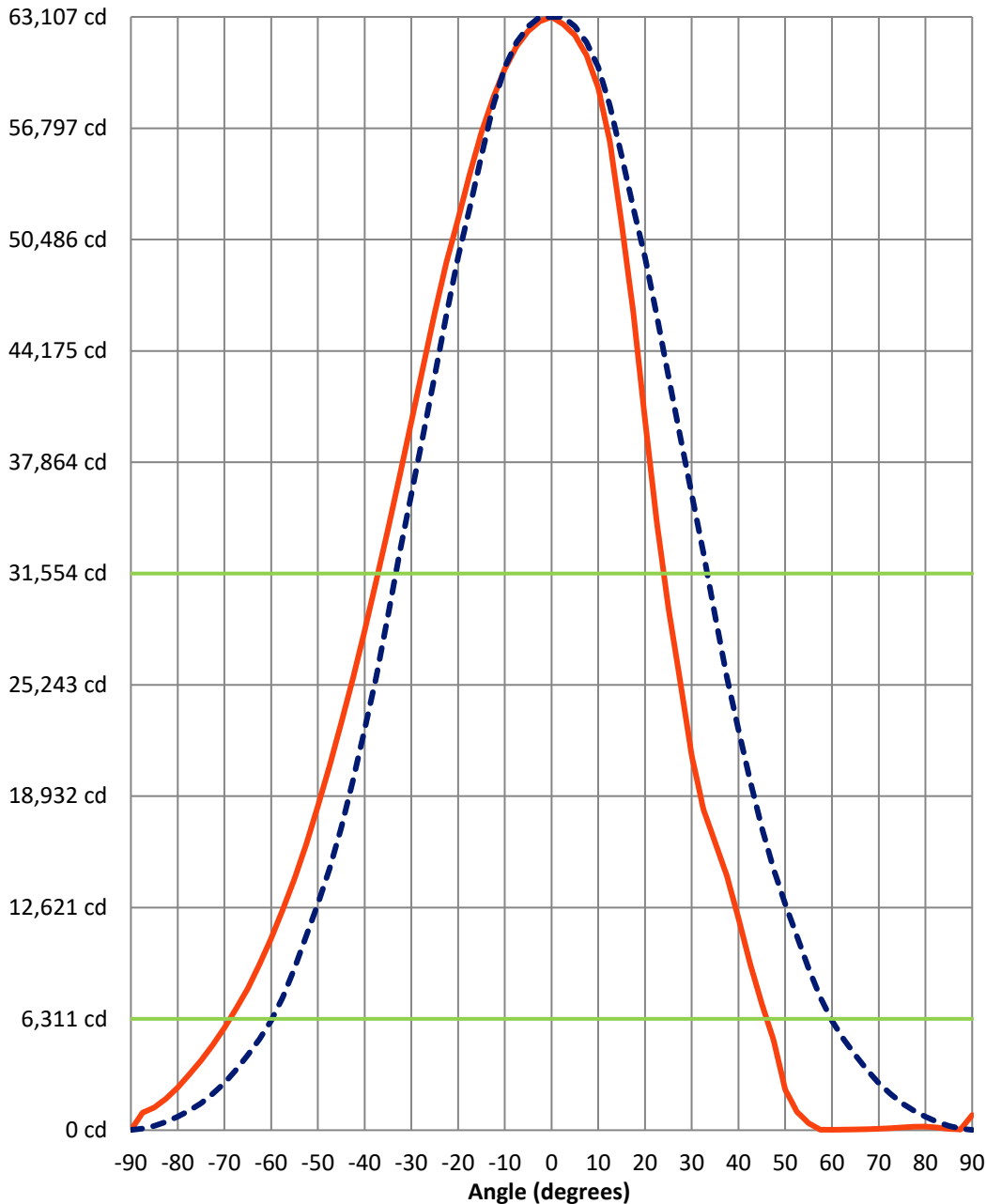
### Luminous Intensity Polar Plot



— 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: 45584  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 78674.2  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 5281.6  
 Efficiency: 6.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	13.7	48.1	82.4	127.6	172.7	217.9	263.0	295.9	328.8	361.7	394.6
87.5°	13.7	17.4	20.0	21.7	23.0	24.1	24.8	24.8	24.4	23.8	22.8
85°	13.7	20.2	24.3	27.6	30.4	32.5	34.0	34.4	34.2	33.4	32.1
82.5°	13.7	22.9	28.5	33.6	37.7	40.9	43.2	44.1	44.9	48.2	50.7
80°	13.7	25.6	32.8	39.5	45.0	49.3	53.4	60.2	66.1	71.0	75.0
77.5°	13.7	28.3	37.2	45.4	52.3	61.1	71.1	79.6	87.4	93.9	97.0
75°	13.7	31.0	41.5	51.3	61.4	79.2	89.2	98.9	109.0	115.7	112.4
72.5°	13.7	33.7	45.9	57.2	78.5	97.6	107.7	120.7	135.3	138.3	129.7
70°	13.7	36.4	50.3	64.7	95.6	116.2	128.2	149.9	162.8	163.0	166.6
67.5°	13.7	39.1	54.7	79.2	112.8	135.2	159.6	180.0	192.1	208.8	210.2
65°	13.7	41.7	59.1	93.6	130.2	160.1	191.8	211.2	240.2	256.7	260.2
62.5°	13.7	44.3	63.6	108.0	147.7	190.9	224.9	254.4	289.7	309.7	322.9
60°	13.7	46.9	68.2	122.4	165.3	222.2	259.0	303.1	341.0	376.6	389.5
57.5°	13.7	49.5	78.6	136.7	192.2	254.0	305.9	353.7	405.6	446.6	467.4
55°	13.7	52.0	88.9	150.9	219.7	286.3	355.3	407.9	475.4	522.9	554.5
52.5°	13.7	54.5	99.1	165.1	247.2	320.8	405.6	476.1	547.4	613.3	648.1
50°	13.7	56.9	109.2	179.2	274.8	364.9	456.7	547.3	626.2	708.6	765.9
47.5°	13.7	59.3	119.0	194.8	302.3	409.1	510.4	620.1	718.1	808.7	895.8
45°	13.7	61.7	128.6	215.7	329.9	453.6	574.7	694.3	817.5	938.0	1036.3
42.5°	13.7	64.0	138.0	236.2	357.4	498.1	639.4	778.3	920.1	1075.1	1225.2
40°	13.7	66.2	147.2	256.4	388.6	542.6	704.4	869.6	1031.9	1218.6	1435.3
37.5°	13.7	68.4	156.0	276.2	423.2	587.1	769.7	962.2	1156.7	1372.2	1660.1
35°	13.7	70.6	164.6	295.3	457.2	636.7	834.9	1055.7	1280.5	1551.1	1911.0
32.5°	13.7	72.6	172.9	313.7	490.5	688.5	903.6	1149.9	1402.9	1722.7	2131.8
30°	13.7	74.6	180.9	331.3	523.1	739.5	980.0	1246.3	1523.5	1886.8	2338.9
27.5°	13.7	76.5	188.5	348.2	552.8	789.3	1055.5	1346.8	1649.6	2043.0	2531.9
25°	13.7	78.3	195.7	364.3	580.8	837.9	1129.7	1444.6	1782.4	2202.4	2711.7
22.5°	13.7	80.0	202.6	379.5	607.4	882.8	1202.4	1539.4	1908.0	2356.2	2900.6
20°	13.7	81.6	209.0	393.7	632.4	920.1	1273.0	1630.9	2026.3	2497.9	3078.9
17.5°	13.7	83.1	215.1	407.0	655.7	954.6	1328.5	1718.6	2137.0	2627.7	3245.7
15°	13.7	84.5	220.6	419.3	677.3	986.3	1371.6	1792.3	2240.0	2745.6	3400.5
12.5°	13.7	85.8	225.7	430.5	697.0	1014.9	1409.7	1849.9	2330.8	2851.7	3542.4
10°	13.7	87.0	230.3	440.6	714.9	1040.5	1442.8	1903.3	2412.3	2976.5	3687.1
7.5°	13.7	88.0	234.4	449.6	730.7	1063.0	1470.9	1952.0	2487.9	3100.0	3851.8
5°	13.7	88.9	238.0	457.3	744.5	1082.3	1494.0	1995.4	2556.6	3216.5	4002.6
2.5°	13.7	89.7	241.0	463.9	756.2	1098.3	1512.1	2032.6	2617.5	3323.7	4138.2
0°	13.7	90.3	243.4	469.2	765.6	1111.1	1525.3	2063.1	2669.7	3419.6	4257.8
-2.5°	13.7	92.1	247.1	476.3	778.1	1131.8	1562.0	2113.8	2734.8	3486.8	4333.4
-5°	13.7	93.7	250.3	482.0	788.3	1149.0	1593.3	2156.6	2789.8	3540.7	4391.8
-7.5°	13.7	95.1	252.8	486.4	795.9	1162.4	1618.8	2191.2	2834.2	3581.3	4432.6
-10°	13.7	96.4	254.8	489.4	801.0	1172.0	1638.0	2217.0	2867.6	3608.8	4455.8
-12.5°	13.7	97.6	256.1	490.9	803.4	1177.5	1650.5	2233.8	2889.6	3624.3	4474.0
-15°	13.7	98.5	256.7	490.9	803.2	1178.8	1655.8	2241.1	2897.1	3630.7	4478.4
-17.5°	13.7	99.3	256.8	489.4	800.1	1175.7	1653.6	2235.9	2888.8	3621.2	4461.7
-20°	13.7	100.0	256.2	486.4	794.2	1168.2	1644.5	2219.5	2867.6	3595.3	4423.7



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	13.7	100.4	255.0	481.9	785.4	1156.2	1630.1	2194.1	2833.4	3552.9	4363.7
-25°	13.7	100.7	253.1	475.8	773.7	1144.3	1609.2	2160.0	2786.0	3493.6	4281.7
-27.5°	13.7	100.7	250.6	468.2	759.0	1129.6	1582.0	2117.0	2725.1	3421.8	4201.3
-30°	13.7	100.6	247.5	459.0	741.9	1110.0	1548.4	2065.3	2661.0	3342.6	4101.8
-32.5°	13.7	100.3	243.7	448.2	726.3	1085.5	1508.5	2015.9	2592.6	3247.3	3982.4
-35°	13.7	99.8	239.3	435.9	707.5	1056.0	1471.3	1962.4	2514.1	3135.9	3843.2
-37.5°	13.7	99.2	234.3	422.0	685.6	1024.4	1431.4	1901.6	2425.8	3008.5	3698.7
-40°	13.7	98.3	228.7	406.7	660.7	993.9	1385.2	1833.6	2327.8	2889.2	3546.6
-42.5°	13.7	97.3	222.5	390.7	637.5	959.3	1332.5	1758.5	2234.7	2770.9	3380.0
-45°	13.7	96.1	215.6	375.1	616.6	920.5	1273.6	1681.8	2140.5	2638.5	3203.8
-47.5°	13.7	94.7	208.3	357.7	593.3	877.6	1208.6	1604.9	2038.4	2492.3	3037.8
-50°	13.7	93.1	200.3	345.5	567.5	830.8	1149.5	1520.5	1924.2	2361.1	2855.0
-52.5°	13.7	91.4	191.8	334.1	539.5	780.2	1087.3	1428.8	1808.6	2218.5	2660.2
-55°	13.7	89.5	182.8	321.5	509.1	738.5	1020.3	1332.1	1688.1	2065.0	2484.7
-57.5°	13.7	87.4	173.3	307.6	476.6	696.2	948.7	1245.9	1559.6	1912.8	2297.1
-60°	13.7	85.1	163.4	292.6	442.6	651.0	874.9	1151.6	1428.3	1754.9	2103.8
-62.5°	13.7	82.7	158.2	276.5	419.1	603.1	814.7	1051.2	1309.3	1588.4	1912.8
-65°	13.7	80.2	152.7	259.3	393.9	552.5	751.1	953.3	1184.4	1436.8	1712.5
-67.5°	13.7	77.5	146.9	241.1	367.2	507.7	684.3	869.1	1054.1	1284.6	1527.3
-70°	13.7	74.7	140.7	222.0	339.0	469.1	614.5	781.7	949.7	1126.5	1345.0
-72.5°	13.7	71.7	134.2	210.1	309.5	428.6	559.1	691.4	842.4	1000.5	1165.3
-75°	13.7	68.7	127.5	199.6	278.8	386.4	503.9	615.3	732.1	871.7	1017.2
-77.5°	13.7	65.5	120.5	188.6	260.1	342.7	446.6	543.0	642.6	747.5	865.2
-80°	13.7	62.2	113.3	177.1	243.7	312.6	387.6	469.0	553.5	642.2	734.9
-82.5°	13.7	58.8	105.8	165.3	226.7	289.9	354.8	407.0	462.5	534.8	610.0
-85°	13.7	55.3	98.2	153.0	209.1	266.4	324.9	370.5	416.4	462.7	509.4
-87.5°	13.7	51.7	90.4	140.4	191.1	242.4	294.3	333.5	372.9	412.5	452.4
-90°	13.7	14.7	15.7	15.7	15.7	15.7	15.7	15.2	14.7	14.2	13.7





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	423.6	452.5	481.5	510.4	538.9	567.3	595.8	624.2	650.7	677.2	703.7
87.5°	23.5	24.0	24.5	25.0	24.0	22.9	21.6	20.2	21.8	23.6	25.5
85°	33.2	34.3	37.2	39.5	41.0	43.1	45.7	48.7	54.5	60.2	65.9
82.5°	55.3	58.9	61.6	63.3	68.7	75.5	82.7	89.5	96.0	102.1	108.0
80°	79.9	83.7	84.5	85.4	92.6	101.5	110.9	120.7	128.6	135.8	142.6
77.5°	97.9	100.0	102.6	105.5	114.8	127.7	140.7	153.7	163.3	171.0	177.9
75°	112.0	116.0	125.3	131.2	141.6	156.6	171.8	186.4	195.9	201.3	204.8
72.5°	134.9	148.5	156.8	160.0	170.1	187.8	203.8	218.0	225.4	224.3	219.7
70°	170.3	182.8	193.7	197.7	202.1	219.4	232.4	242.6	247.1	238.1	220.5
67.5°	208.4	227.7	237.6	238.2	232.0	247.0	258.6	257.1	249.4	229.9	206.8
65°	257.3	275.8	284.6	281.0	264.3	267.7	266.9	259.9	242.0	215.3	187.6
62.5°	312.2	328.7	335.7	326.4	295.9	282.8	275.3	257.4	230.1	203.9	177.6
60°	382.0	385.6	390.1	373.4	335.1	298.9	284.7	266.9	237.5	201.6	180.0
57.5°	460.2	447.6	449.7	430.9	386.8	322.3	315.9	293.1	268.3	221.1	198.9
55°	550.4	515.9	521.4	504.4	463.9	391.7	367.2	363.9	329.2	292.0	251.1
52.5°	658.7	611.8	610.7	608.1	586.1	523.9	467.7	506.7	528.6	487.1	513.6
50°	780.3	757.0	721.9	762.7	775.7	742.7	693.3	802.3	933.7	993.9	992.4
47.5°	941.9	928.1	897.7	971.7	1064.2	1149.0	1169.4	1366.4	1565.3	1785.3	1811.4
45°	1132.1	1167.1	1149.8	1307.0	1505.2	1733.2	1902.6	2093.7	2546.5	2809.2	3198.3
42.5°	1343.3	1445.3	1538.2	1686.8	2154.2	2444.5	2700.0	3179.6	3630.0	4010.8	4412.9
40°	1615.0	1749.2	1952.3	2356.4	2860.4	3196.3	3636.2	4182.6	4638.8	5068.8	5480.4
37.5°	1909.7	2133.9	2408.8	2988.1	3561.6	3982.5	4521.0	5063.1	5581.7	6064.2	6639.7
35°	2221.2	2519.8	2952.9	3558.0	4159.9	4746.1	5338.9	5942.6	6534.5	7195.6	7842.8
32.5°	2560.2	2906.2	3452.8	4095.4	4769.1	5450.1	6138.9	6843.7	7595.9	8366.8	9053.4
30°	2866.0	3336.7	3918.4	4615.3	5375.6	6157.9	6961.6	7772.7	8696.3	9608.8	10432.5
27.5°	3099.7	3730.9	4380.6	5151.0	5983.9	6856.4	7787.5	8792.6	9867.9	10913.9	11891.7
25°	3323.9	4034.2	4823.8	5686.3	6611.7	7592.6	8634.2	9759.4	11078.9	12304.5	13524.2
22.5°	3558.8	4339.9	5191.8	6208.1	7222.8	8339.2	9494.9	10789.9	12248.1	13696.9	15179.1
20°	3808.6	4656.2	5555.2	6626.9	7794.6	9074.7	10304.9	11812.2	13434.3	15117.9	16925.9
17.5°	4052.2	4946.9	5907.4	7036.9	8302.5	9736.3	11085.9	12801.7	14599.3	16524.9	18569.8
15°	4286.9	5211.9	6228.6	7413.9	8793.8	10315.9	11894.4	13774.4	15784.7	17910.6	20058.1
12.5°	4509.9	5451.1	6518.1	7756.2	9252.6	10879.1	12617.9	14595.2	16797.1	19147.0	21487.8
10°	4718.5	5664.6	6775.4	8061.9	9673.4	11416.2	13262.0	15328.9	17618.3	20039.5	22650.2
7.5°	4876.6	5842.0	7002.3	8329.6	10050.5	11916.7	13825.6	15971.9	18312.4	20834.1	23640.6
5°	4997.7	5986.1	7212.1	8638.6	10412.9	12330.8	14289.3	16520.1	18881.3	21517.8	24495.7
2.5°	5089.7	6107.8	7391.9	8925.7	10737.4	12612.9	14591.7	16879.8	19393.1	22156.2	25190.6
0°	5156.9	6205.1	7538.0	9171.2	11000.8	12820.5	14814.9	17141.1	19808.9	22696.5	25703.8
-2.5°	5270.9	6377.7	7742.3	9365.8	11165.1	13023.8	15102.6	17504.9	20203.2	23037.3	26146.3
-5°	5362.1	6519.6	7907.5	9512.1	11272.1	13156.9	15300.8	17757.9	20461.4	23266.8	26374.8
-7.5°	5428.2	6627.1	8031.5	9609.2	11343.6	13264.4	15439.3	17883.8	20558.0	23403.9	26410.5
-10°	5467.3	6677.8	8070.6	9638.0	11382.2	13322.3	15492.5	17902.3	20529.1	23371.6	26312.6
-12.5°	5482.1	6676.7	8058.6	9614.6	11352.6	13294.6	15450.3	17814.9	20377.7	23163.9	26063.2
-15°	5472.3	6642.5	8002.5	9538.2	11252.6	13178.1	15312.1	17623.9	20096.7	22740.8	25558.5
-17.5°	5438.0	6575.0	7901.7	9408.6	11080.7	12970.3	15065.6	17270.7	19693.1	22252.4	24917.2
-20°	5379.3	6474.3	7756.0	9225.7	10846.1	12697.4	14717.4	16852.1	19179.0	21669.4	24198.9



REPORT NUMBER: P701722 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-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°	5296.1	6340.4	7585.7	9019.6	10620.9	12387.3	14301.7	16348.4	18524.0	20973.8	23384.4
-25°	5200.5	6222.2	7407.4	8795.1	10336.3	12024.0	13815.0	15771.9	17825.3	20118.1	22451.5
-27.5°	5091.5	6078.6	7217.6	8526.0	9987.1	11620.2	13332.6	15169.5	17113.9	19175.5	21412.7
-30°	4956.8	5915.4	6990.2	8231.4	9633.4	11180.7	12827.2	14487.8	16329.6	18273.3	20324.0
-32.5°	4796.9	5718.1	6763.3	7945.4	9248.4	10672.0	12237.5	13816.5	15515.8	17314.8	19215.2
-35°	4625.9	5517.9	6510.5	7619.6	8825.9	10160.1	11589.9	13091.9	14654.6	16345.1	18016.9
-37.5°	4453.9	5288.9	6215.3	7274.7	8430.2	9615.5	10901.4	12330.3	13794.8	15289.4	16824.7
-40°	4260.3	5031.8	5921.5	6909.3	7955.5	9055.4	10260.3	11535.8	12897.3	14245.6	15621.8
-42.5°	4049.4	4794.6	5610.3	6491.7	7470.8	8494.2	9575.3	10768.9	11955.7	13180.3	14450.9
-45°	3849.3	4535.5	5279.0	6098.2	6963.6	7910.1	8919.1	9962.3	11030.7	12112.9	13269.7
-47.5°	3634.2	4266.4	4966.7	5676.7	6472.0	7328.6	8235.9	9174.7	10100.0	11092.3	12081.0
-50°	3410.2	4013.8	4617.2	5277.1	5983.4	6752.2	7575.2	8384.7	9230.8	10090.0	10981.2
-52.5°	3185.5	3746.1	4292.7	4870.4	5509.3	6192.0	6909.1	7632.3	8384.2	9140.6	9904.4
-55°	2942.9	3463.1	3959.1	4480.9	5041.1	5652.8	6259.9	6910.6	7562.4	8254.5	8882.0
-57.5°	2713.5	3157.0	3616.2	4092.9	4594.3	5115.0	5654.1	6198.5	6791.7	7388.5	7926.2
-60°	2487.3	2862.6	3263.5	3699.5	4148.2	4609.3	5056.2	5542.1	6043.9	6532.6	7024.6
-62.5°	2252.7	2585.0	2927.8	3297.6	3706.0	4103.3	4506.6	4916.1	5324.9	5758.5	6174.4
-65°	2021.3	2304.7	2608.6	2929.1	3257.4	3616.3	3970.9	4316.7	4681.9	5036.8	5381.4
-67.5°	1779.5	2039.0	2299.3	2566.3	2859.9	3153.0	3447.9	3765.5	4073.9	4363.9	4656.1
-70°	1563.4	1772.4	2002.7	2238.4	2472.0	2712.4	2974.3	3236.8	3494.5	3741.7	3994.6
-72.5°	1348.7	1536.1	1724.4	1913.0	2116.2	2318.6	2523.1	2729.1	2944.5	3160.2	3369.8
-75°	1157.3	1297.9	1461.5	1627.9	1786.5	1941.2	2099.5	2274.6	2446.9	2616.1	2783.6
-77.5°	982.8	1101.5	1224.1	1350.4	1471.1	1600.8	1731.1	1861.6	1990.1	2115.9	2239.1
-80°	818.8	902.0	1000.7	1103.1	1198.9	1293.4	1387.9	1482.2	1577.4	1677.0	1779.8
-82.5°	677.8	745.6	814.2	883.5	947.2	1009.5	1073.8	1147.4	1222.7	1297.5	1371.4
-85°	548.8	587.7	640.4	693.7	744.6	794.7	844.2	893.0	943.0	992.4	1041.0
-87.5°	486.5	520.4	554.2	587.8	620.1	652.2	684.0	715.5	747.7	779.9	812.0
-90°	13.7	13.7	13.7	13.7	13.2	12.8	12.3	11.8	11.3	10.8	10.3



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 CATALOG NUMBER: EPH-LS-08-0680R-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°	730.2	738.6	746.9	755.3	763.6	783.2	802.9	822.5	842.1	846.5	851.0
87.5°	27.5	27.5	27.5	27.5	27.4	31.8	36.3	41.0	45.7	45.2	44.5
85°	71.3	72.4	72.8	72.9	72.5	78.6	84.7	90.6	96.4	92.5	88.0
82.5°	113.7	115.7	117.7	119.8	121.9	128.2	134.4	140.3	145.8	147.6	149.3
80°	148.9	152.7	155.6	157.8	159.5	164.9	170.6	176.1	181.3	186.9	192.4
77.5°	182.9	184.1	183.5	181.7	178.8	179.6	180.9	181.5	181.6	184.4	187.7
75°	206.5	203.8	195.7	186.4	176.0	169.6	164.9	159.9	154.8	153.9	154.2
72.5°	211.7	201.0	187.7	171.2	154.9	143.7	136.0	128.6	121.6	118.2	116.2
70°	200.5	179.9	162.0	144.3	127.1	114.3	106.7	99.7	93.4	89.3	86.4
67.5°	180.5	155.0	136.2	118.1	101.2	88.1	81.4	75.3	69.7	65.6	62.6
65°	160.3	133.2	115.0	97.6	80.6	67.6	62.5	57.4	52.5	48.8	46.8
62.5°	149.0	120.6	101.8	86.6	71.1	56.1	50.8	45.6	40.5	36.5	34.8
60°	153.0	120.7	97.9	83.8	67.8	50.4	43.8	39.1	33.9	29.1	27.5
57.5°	177.0	141.8	107.7	102.1	86.0	60.3	62.7	73.0	65.3	45.1	42.8
55°	270.8	262.0	171.5	222.0	258.1	243.2	227.1	300.7	336.5	338.4	371.6
52.5°	538.1	601.6	577.9	605.4	754.8	815.2	807.3	938.7	1006.9	997.6	1033.2
50°	1133.0	1263.0	1423.0	1448.8	1699.3	1872.9	1914.8	2067.1	2236.2	2300.9	2373.7
47.5°	2211.2	2515.8	2670.3	2844.6	3132.9	3448.7	3693.4	3912.5	4150.0	4312.4	4508.4
45°	3601.8	3817.1	4086.0	4490.9	4930.8	5343.0	5730.1	6082.9	6315.6	6523.1	6743.3
42.5°	4745.9	5089.8	5540.9	6144.8	6770.7	7193.8	7512.2	7852.2	8215.7	8561.3	8879.9
40°	5917.4	6315.9	7031.7	7716.0	8183.0	8591.3	9027.3	9488.7	9963.9	10417.2	10868.0
37.5°	7173.0	7761.9	8388.6	8986.7	9481.0	9867.2	10464.6	10975.7	11451.8	12126.9	12746.1
35°	8509.0	9148.9	9687.5	10371.6	10924.2	11400.6	12025.7	12669.3	13081.5	14007.5	14809.1
32.5°	9838.2	10584.0	11302.1	11951.7	12637.4	13371.9	13980.3	14863.3	15535.0	16420.8	17291.5
30°	11223.1	12245.6	13141.9	13854.8	14788.8	15738.4	16592.1	17631.9	18622.1	19446.4	20369.2
27.5°	12970.7	14107.6	15200.7	16299.3	17297.0	18482.9	19841.8	20941.6	22209.2	23108.0	24073.1
25°	14824.8	16179.2	17633.0	19049.2	20358.1	21892.2	23432.8	24776.5	26090.3	27126.0	28157.4
22.5°	16841.1	18478.8	20209.1	21991.8	23761.4	25442.1	27095.7	28758.7	30273.1	31696.6	32688.1
20°	18888.6	20707.3	22808.6	24956.5	26994.1	28891.2	30878.3	32981.2	34905.6	36555.2	37776.7
17.5°	20735.8	23016.9	25328.1	27684.8	29982.7	32327.3	34792.7	37266.0	39544.5	41476.4	43098.2
15°	22399.8	24984.4	27660.0	30318.9	32961.5	35660.9	38541.7	41206.6	43760.3	45975.9	47872.1
12.5°	24040.7	26801.3	29669.3	32650.6	35783.4	38706.2	41639.2	44512.8	47189.0	49764.5	51664.0
10°	25493.0	28473.7	31544.3	34739.0	37983.7	41154.5	44246.1	47241.6	49871.0	52302.9	54601.0
7.5°	26676.3	29873.1	33150.3	36510.3	39849.8	43060.7	46209.4	49202.7	51871.7	54363.9	56713.9
5°	27696.9	31087.5	34469.7	37818.1	41178.3	44508.7	47687.7	50639.2	53419.2	56009.0	58364.1
2.5°	28529.8	32065.2	35492.1	38790.0	42136.7	45545.7	48804.9	51656.4	54562.3	57196.3	59514.4
0°	29154.8	32723.6	36041.1	39368.4	42756.6	46203.7	49481.9	52275.3	55233.6	58048.6	60253.0
-2.5°	29496.7	32855.9	36158.0	39496.3	42986.6	46532.4	49806.2	52817.0	55758.2	58397.0	60446.5
-5°	29615.5	32920.0	36210.2	39608.7	43068.7	46558.9	49821.4	52840.1	55664.7	58132.8	60002.2
-7.5°	29535.7	32807.8	36065.1	39430.2	42868.3	46316.7	49526.8	52414.4	55134.5	57472.3	59256.0
-10°	29295.1	32463.7	35722.2	39032.0	42477.4	45882.0	49027.8	51632.9	54230.0	56423.2	58109.8
-12.5°	28897.5	31931.3	35144.8	38381.3	41761.7	45034.3	47965.8	50559.7	52880.3	55101.8	56578.1
-15°	28333.3	31258.3	34330.6	37499.9	40702.5	43868.4	46726.8	49233.9	51383.8	53136.2	54690.8
-17.5°	27625.8	30448.1	33392.0	36428.9	39402.9	42414.9	45063.9	47576.3	49644.3	51204.3	52410.8
-20°	26754.8	29493.8	32309.2	35208.6	37971.7	40533.5	43087.0	45423.3	47467.4	48992.8	50152.2



REPORT NUMBER: P701722 (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°
-22.5°	25835.5	28419.5	31086.8	33701.2	36217.5	38625.6	40938.4	43082.6	45026.2	46468.5	47578.1
-25°	24789.4	27206.1	29672.3	32033.4	34331.5	36573.6	38669.9	40656.7	42353.4	43756.4	44786.6
-27.5°	23643.9	25894.0	28120.0	30315.9	32448.1	34386.3	36315.1	38108.6	39600.8	40891.0	41803.4
-30°	22392.1	24449.9	26536.0	28594.4	30438.9	32184.9	33898.6	35455.4	36823.2	37956.2	38774.4
-32.5°	21071.8	22951.8	24886.8	26748.1	28365.6	29940.8	31435.0	32799.8	34054.0	35055.1	35793.0
-35°	19706.8	21448.5	23186.1	24795.5	26303.1	27704.4	28992.0	30201.6	31240.5	32153.1	32876.6
-37.5°	18364.2	19933.0	21441.0	22846.2	24239.2	25524.3	26649.0	27710.3	28654.9	29416.0	30050.3
-40°	17047.4	18436.1	19720.0	20970.7	22215.4	23303.3	24324.6	25239.9	26075.8	26803.0	27366.4
-42.5°	15738.5	16934.3	18042.5	19168.1	20244.2	21187.6	22076.9	22869.9	23595.3	24246.9	24793.2
-45°	14424.8	15447.5	16433.8	17423.4	18316.9	19157.2	19930.2	20627.0	21275.0	21823.7	22271.6
-47.5°	13083.0	13990.3	14886.2	15743.7	16485.1	17211.1	17876.5	18502.4	19086.4	19579.9	19975.6
-50°	11801.8	12603.8	13406.0	14114.8	14738.1	15342.8	15905.9	16510.2	17050.8	17500.3	17827.4
-52.5°	10599.0	11324.2	12013.8	12594.3	13121.1	13593.3	14025.8	14587.2	15096.1	15537.6	15827.6
-55°	9503.6	10124.2	10715.4	11195.1	11635.0	12028.8	12421.3	12872.5	13283.3	13650.7	13893.0
-57.5°	8472.6	8998.6	9490.4	9894.3	10261.2	10590.4	10955.0	11332.2	11669.0	11958.9	12154.1
-60°	7495.0	7942.8	8350.7	8683.0	8987.9	9265.0	9612.0	9941.2	10232.4	10468.8	10614.5
-62.5°	6572.9	6974.5	7291.7	7558.8	7802.4	8035.9	8339.1	8623.5	8886.1	9095.8	9217.8
-65°	5728.7	6080.3	6316.0	6527.5	6719.5	6929.8	7187.6	7418.9	7624.0	7779.8	7885.9
-67.5°	4958.9	5237.2	5423.1	5591.0	5755.5	5935.5	6154.3	6356.2	6540.8	6669.2	6748.5
-70°	4242.0	4456.4	4607.1	4750.0	4887.3	5041.6	5220.9	5387.8	5541.9	5641.5	5704.7
-72.5°	3573.0	3736.5	3861.1	3984.0	4094.8	4227.1	4373.3	4510.2	4637.3	4712.2	4760.3
-75°	2949.0	3074.3	3176.3	3270.7	3357.3	3468.6	3587.0	3698.1	3801.6	3858.7	3895.7
-77.5°	2370.3	2466.3	2543.1	2613.4	2677.1	2765.4	2856.5	2942.1	3021.9	3072.8	3113.7
-80°	1880.3	1938.3	1985.4	2029.4	2070.0	2136.0	2202.8	2265.8	2324.8	2358.0	2384.3
-82.5°	1444.3	1479.5	1507.6	1532.2	1553.4	1599.4	1645.2	1688.6	1729.5	1751.0	1769.2
-85°	1088.7	1107.6	1123.6	1137.8	1150.2	1182.2	1213.8	1244.3	1273.7	1279.9	1284.3
-87.5°	844.1	854.4	864.1	873.6	882.7	906.4	930.0	953.4	976.6	980.7	984.3
-90°	9.8	9.3	8.9	8.4	7.9	7.4	6.9	6.4	5.9	5.4	4.9



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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°	855.4	859.8	856.9	853.9	856.9	859.8	855.4	851.0	846.5	842.1	822.5
87.5°	43.8	43.1	43.2	43.2	43.2	43.1	43.8	44.5	45.2	45.7	41.0
85°	83.3	78.3	74.6	70.7	74.6	78.3	83.3	88.0	92.5	96.4	90.6
82.5°	150.8	152.2	151.9	151.2	151.9	152.2	150.8	149.3	147.6	145.8	140.3
80°	197.9	203.3	204.9	206.1	204.9	203.3	197.9	192.4	186.9	181.3	176.1
77.5°	191.0	194.3	195.3	196.3	195.3	194.3	191.0	187.7	184.4	181.6	181.5
75°	154.9	155.9	155.3	155.1	155.3	155.9	154.9	154.2	153.9	154.8	159.9
72.5°	114.4	113.1	112.2	111.9	112.2	113.1	114.4	116.2	118.2	121.6	128.6
70°	83.8	81.6	79.8	78.5	79.8	81.6	83.8	86.4	89.3	93.4	99.7
67.5°	60.1	57.9	56.2	55.0	56.2	57.9	60.1	62.6	65.6	69.7	75.3
65°	45.1	43.9	42.4	41.2	42.4	43.9	45.1	46.8	48.8	52.5	57.4
62.5°	33.3	32.1	31.5	31.4	31.5	32.1	33.3	34.8	36.5	40.5	45.6
60°	25.8	24.3	23.7	23.6	23.7	24.3	25.8	27.5	29.1	33.9	39.1
57.5°	38.6	33.0	29.7	27.5	29.7	33.0	38.6	42.8	45.1	65.3	73.0
55°	389.3	390.4	398.2	406.3	398.2	390.4	389.3	371.6	338.4	336.5	300.7
52.5°	1060.4	1056.9	1047.3	1028.6	1047.3	1056.9	1060.4	1033.2	997.6	1006.9	938.7
50°	2417.4	2383.2	2309.3	2204.5	2309.3	2383.2	2417.4	2373.7	2300.9	2236.2	2067.1
47.5°	4772.3	4969.7	5106.3	5166.7	5106.3	4969.7	4772.3	4508.4	4312.4	4150.0	3912.5
45°	6972.6	7089.6	7157.9	7212.1	7157.9	7089.6	6972.6	6743.3	6523.1	6315.6	6082.9
42.5°	9151.1	9336.7	9428.1	9412.7	9428.1	9336.7	9151.1	8879.9	8561.3	8215.7	7852.2
40°	11301.2	11689.6	12008.5	12237.5	12008.5	11689.6	11301.2	10868.0	10417.2	9963.9	9488.7
37.5°	13358.4	13936.9	14425.5	14779.6	14425.5	13936.9	13358.4	12746.1	12126.9	11451.8	10975.7
35°	15465.0	15975.1	16310.0	16456.0	16310.0	15975.1	15465.0	14809.1	14007.5	13081.5	12669.3
32.5°	17846.7	18130.2	18190.3	18342.5	18190.3	18130.2	17846.7	17291.5	16420.8	15535.0	14863.3
30°	20931.2	21225.8	21232.9	21424.4	21232.9	21225.8	20931.2	20369.2	19446.4	18622.1	17631.9
27.5°	24834.0	25330.2	25491.3	25660.6	25491.3	25330.2	24834.0	24073.1	23108.0	22209.2	20941.6
25°	29013.2	29475.7	29623.9	29567.1	29623.9	29475.7	29013.2	28157.4	27126.0	26090.3	24776.5
22.5°	33704.0	34303.6	34521.8	34411.8	34521.8	34303.6	33704.0	32688.1	31696.6	30273.1	28758.7
20°	38954.1	39819.6	40277.0	40483.4	40277.0	39819.6	38954.1	37776.7	36555.2	34905.6	32981.2
17.5°	44480.2	45755.6	46341.2	46513.8	46341.2	45755.6	44480.2	43098.2	41476.4	39544.5	37266.0
15°	49507.4	50621.0	51380.5	51770.8	51380.5	50621.0	49507.4	47872.1	45975.9	43760.3	41206.6
12.5°	53394.5	54813.9	55996.9	56631.3	55996.9	54813.9	53394.5	51664.0	49764.5	47189.0	44512.8
10°	56563.0	57996.2	59072.0	59593.5	59072.0	57996.2	56563.0	54601.0	52302.9	49871.0	47241.6
7.5°	58755.4	60087.2	60922.4	61264.0	60922.4	60087.2	58755.4	56713.9	54363.9	51871.7	49202.7
5°	60172.3	61445.8	62063.1	62284.8	62063.1	61445.8	60172.3	58364.1	56009.0	53419.2	50639.2
2.5°	61192.6	62200.2	62694.5	62726.4	62694.5	62200.2	61192.6	59514.4	57196.3	54562.3	51656.4
0°	61658.6	62565.5	63107.3	63097.5	63107.3	62565.5	61658.6	60253.0	58048.6	55233.6	52275.3
-2.5°	61681.1	62470.2	62855.2	62638.1	62855.2	62470.2	61681.1	60446.5	58397.0	55758.2	52817.0
-5°	61241.2	62013.5	62302.1	62235.7	62302.1	62013.5	61241.2	60002.2	58132.8	55664.7	52840.1
-7.5°	60451.4	61136.6	61431.2	61440.7	61431.2	61136.6	60451.4	59256.0	57472.3	55134.5	52414.4
-10°	59247.1	59819.5	60156.9	60060.7	60156.9	59819.5	59247.1	58109.8	56423.2	54230.0	51632.9
-12.5°	57653.7	58218.8	58504.9	58447.1	58504.9	58218.8	57653.7	56578.1	55101.8	52880.3	50559.7
-15°	55747.9	56284.9	56553.0	56527.2	56553.0	56284.9	55747.9	54690.8	53136.2	51383.8	49233.9
-17.5°	53388.2	53926.5	54201.0	54238.3	54201.0	53926.5	53388.2	52410.8	51204.3	49644.3	47576.3
-20°	50915.4	51390.2	51641.5	51645.2	51641.5	51390.2	50915.4	50152.2	48992.8	47467.4	45423.3



REPORT NUMBER: P701722 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-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°	48352.0	48885.2	49183.5	49138.4	49183.5	48885.2	48352.0	47578.1	46468.5	45026.2	43082.6
-25°	45494.9	46029.2	46319.2	46307.7	46319.2	46029.2	45494.9	44786.6	43756.4	42353.4	40656.7
-27.5°	42444.8	42958.3	43238.2	43272.9	43238.2	42958.3	42444.8	41803.4	40891.0	39600.8	38108.6
-30°	39372.3	39878.6	40152.8	40175.2	40152.8	39878.6	39372.3	38774.4	37956.2	36823.2	35455.4
-32.5°	36361.7	36818.9	37072.1	37099.2	37072.1	36818.9	36361.7	35793.0	35055.1	34054.0	32799.8
-35°	33424.5	33826.1	34053.5	34127.2	34053.5	33826.1	33424.5	32876.6	32153.1	31240.5	30201.6
-37.5°	30565.8	30928.9	31148.4	31282.7	31148.4	30928.9	30565.8	30050.3	29416.0	28654.9	27710.3
-40°	27804.6	28122.8	28297.8	28300.9	28297.8	28122.8	27804.6	27366.4	26803.0	26075.8	25239.9
-42.5°	25198.0	25465.8	25599.6	25601.7	25599.6	25465.8	25198.0	24793.2	24246.9	23595.3	22869.9
-45°	22632.4	22894.3	23079.8	23197.0	23079.8	22894.3	22632.4	22271.6	21823.7	21275.0	20627.0
-47.5°	20277.5	20492.3	20639.5	20719.7	20639.5	20492.3	20277.5	19975.6	19579.9	19086.4	18502.4
-50°	18067.0	18238.8	18364.3	18438.7	18364.3	18238.8	18067.0	17827.4	17500.3	17050.8	16510.2
-52.5°	16024.3	16149.6	16194.7	16165.5	16194.7	16149.6	16024.3	15827.6	15537.6	15096.1	14587.2
-55°	14074.6	14199.6	14249.5	14231.9	14249.5	14199.6	14074.6	13893.0	13650.7	13283.3	12872.5
-57.5°	12307.7	12418.5	12507.1	12561.4	12507.1	12418.5	12307.7	12154.1	11958.9	11669.0	11332.2
-60°	10729.3	10811.2	10866.9	10888.9	10866.9	10811.2	10729.3	10614.5	10468.8	10232.4	9941.2
-62.5°	9303.5	9354.5	9394.1	9410.7	9394.1	9354.5	9303.5	9217.8	9095.8	8886.1	8623.5
-65°	7970.6	8032.8	8025.3	7981.7	8025.3	8032.8	7970.6	7885.9	7779.8	7624.0	7418.9
-67.5°	6808.4	6848.9	6883.7	6902.0	6883.7	6848.9	6808.4	6748.5	6669.2	6540.8	6356.2
-70°	5753.0	5786.2	5798.6	5794.8	5798.6	5786.2	5753.0	5704.7	5641.5	5541.9	5387.8
-72.5°	4796.6	4820.8	4825.6	4817.3	4825.6	4820.8	4796.6	4760.3	4712.2	4637.3	4510.2
-75°	3922.0	3938.1	3946.2	3945.7	3946.2	3938.1	3922.0	3895.7	3858.7	3801.6	3698.1
-77.5°	3147.7	3174.8	3163.3	3142.8	3163.3	3174.8	3147.7	3113.7	3072.8	3021.9	2942.1
-80°	2405.8	2422.4	2413.3	2398.8	2413.3	2422.4	2405.8	2384.3	2358.0	2324.8	2265.8
-82.5°	1784.9	1798.0	1783.1	1764.8	1783.1	1798.0	1784.9	1769.2	1751.0	1729.5	1688.6
-85°	1287.5	1289.4	1288.2	1285.8	1288.2	1289.4	1287.5	1284.3	1279.9	1273.7	1244.3
-87.5°	987.7	990.8	988.2	985.4	988.2	990.8	987.7	984.3	980.7	976.6	953.4
-90°	4.4	3.9	4.9	5.9	4.9	3.9	4.4	4.9	5.4	5.9	6.4





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	802.9	783.2	763.6	755.3	746.9	738.6	730.2	703.7	677.2	650.7	624.2
87.5°	36.3	31.8	27.4	27.5	27.5	27.5	27.5	25.5	23.6	21.8	20.2
85°	84.7	78.6	72.5	72.9	72.8	72.4	71.3	65.9	60.2	54.5	48.7
82.5°	134.4	128.2	121.9	119.8	117.7	115.7	113.7	108.0	102.1	96.0	89.5
80°	170.6	164.9	159.5	157.8	155.6	152.7	148.9	142.6	135.8	128.6	120.7
77.5°	180.9	179.6	178.8	181.7	183.5	184.1	182.9	177.9	171.0	163.3	153.7
75°	164.9	169.6	176.0	186.4	195.7	203.8	206.5	204.8	201.3	195.9	186.4
72.5°	136.0	143.7	154.9	171.2	187.7	201.0	211.7	219.7	224.3	225.4	218.0
70°	106.7	114.3	127.1	144.3	162.0	179.9	200.5	220.5	238.1	247.1	242.6
67.5°	81.4	88.1	101.2	118.1	136.2	155.0	180.5	206.8	229.9	249.4	257.1
65°	62.5	67.6	80.6	97.6	115.0	133.2	160.3	187.6	215.3	242.0	259.9
62.5°	50.8	56.1	71.1	86.6	101.8	120.6	149.0	177.6	203.9	230.1	257.4
60°	43.8	50.4	67.8	83.8	97.9	120.7	153.0	180.0	201.6	237.5	266.9
57.5°	62.7	60.3	86.0	102.1	107.7	141.8	177.0	198.9	221.1	268.3	293.1
55°	227.1	243.2	258.1	222.0	171.5	262.0	270.8	251.1	292.0	329.2	363.9
52.5°	807.3	815.2	754.8	605.4	577.9	601.6	538.1	513.6	487.1	528.6	506.7
50°	1914.8	1872.9	1699.3	1448.8	1423.0	1263.0	1133.0	992.4	993.9	933.7	802.3
47.5°	3693.4	3448.7	3132.9	2844.6	2670.3	2515.8	2211.2	1811.4	1785.3	1565.3	1366.4
45°	5730.1	5343.0	4930.8	4490.9	4086.0	3817.1	3601.8	3198.3	2809.2	2546.5	2093.7
42.5°	7512.2	7193.8	6770.7	6144.8	5540.9	5089.8	4745.9	4412.9	4010.8	3630.0	3179.6
40°	9027.3	8591.3	8183.0	7716.0	7031.7	6315.9	5917.4	5480.4	5068.8	4638.8	4182.6
37.5°	10464.6	9867.2	9481.0	8986.7	8388.6	7761.9	7173.0	6639.7	6064.2	5581.7	5063.1
35°	12025.7	11400.6	10924.2	10371.6	9687.5	9148.9	8509.0	7842.8	7195.6	6534.5	5942.6
32.5°	13980.3	13371.9	12637.4	11951.7	11302.1	10584.0	9838.2	9053.4	8366.8	7595.9	6843.7
30°	16592.1	15738.4	14788.8	13854.8	13141.9	12245.6	11223.1	10432.5	9608.8	8696.3	7772.7
27.5°	19841.8	18482.9	17297.0	16299.3	15200.7	14107.6	12970.7	11891.7	10913.9	9867.9	8792.6
25°	23432.8	21892.2	20358.1	19049.2	17633.0	16179.2	14824.8	13524.2	12304.5	11078.9	9759.4
22.5°	27095.7	25442.1	23761.4	21991.8	20209.1	18478.8	16841.1	15179.1	13696.9	12248.1	10789.9
20°	30878.3	28891.2	26994.1	24956.5	22808.6	20707.3	18888.6	16925.9	15117.9	13434.3	11812.2
17.5°	34792.7	32327.3	29982.7	27684.8	25328.1	23016.9	20735.8	18569.8	16524.9	14599.3	12801.7
15°	38541.7	35660.9	32961.5	30318.9	27660.0	24984.4	22399.8	20058.1	17910.6	15784.7	13774.4
12.5°	41639.2	38706.2	35783.4	32650.6	29669.3	26801.3	24040.7	21487.8	19147.0	16797.1	14595.2
10°	44246.1	41154.5	37983.7	34739.0	31544.3	28473.7	25493.0	22650.2	20039.5	17618.3	15328.9
7.5°	46209.4	43060.7	39849.8	36510.3	33150.3	29873.1	26676.3	23640.6	20834.1	18312.4	15971.9
5°	47687.7	44508.7	41178.3	37818.1	34469.7	31087.5	27696.9	24495.7	21517.8	18881.3	16520.1
2.5°	48804.9	45545.7	42136.7	38790.0	35492.1	32065.2	28529.8	25190.6	22156.2	19393.1	16879.8
0°	49481.9	46203.7	42756.6	39368.4	36041.1	32723.6	29154.8	25703.8	22696.5	19808.9	17141.1
-2.5°	49806.2	46532.4	42986.6	39496.3	36158.0	32855.9	29496.7	26146.3	23037.3	20203.2	17504.9
-5°	49821.4	46558.9	43068.7	39608.7	36210.2	32920.0	29615.5	26374.8	23266.8	20461.4	17757.9
-7.5°	49526.8	46316.7	42868.3	39430.2	36065.1	32807.8	29535.7	26410.5	23403.9	20558.0	17883.8
-10°	49027.8	45882.0	42477.4	39032.0	35722.2	32463.7	29295.1	26312.6	23371.6	20529.1	17902.3
-12.5°	47965.8	45034.3	41761.7	38381.3	35144.8	31931.3	28897.5	26063.2	23163.9	20377.7	17814.9
-15°	46726.8	43868.4	40702.5	37499.9	34330.6	31258.3	28333.3	25558.5	22740.8	20096.7	17623.9
-17.5°	45063.9	42414.9	39402.9	36428.9	33392.0	30448.1	27625.8	24917.2	22252.4	19693.1	17270.7
-20°	43087.0	40533.5	37971.7	35208.6	32309.2	29493.8	26754.8	24198.9	21669.4	19179.0	16852.1



REPORT NUMBER: P701722 (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°	40938.4	38625.6	36217.5	33701.2	31086.8	28419.5	25835.5	23384.4	20973.8	18524.0	16348.4
-25°	38669.9	36573.6	34331.5	32033.4	29672.3	27206.1	24789.4	22451.5	20118.1	17825.3	15771.9
-27.5°	36315.1	34386.3	32448.1	30315.9	28120.0	25894.0	23643.9	21412.7	19175.5	17113.9	15169.5
-30°	33898.6	32184.9	30438.9	28594.4	26536.0	24449.9	22392.1	20324.0	18273.3	16329.6	14487.8
-32.5°	31435.0	29940.8	28365.6	26748.1	24886.8	22951.8	21071.8	19215.2	17314.8	15515.8	13816.5
-35°	28992.0	27704.4	26303.1	24795.5	23186.1	21448.5	19706.8	18016.9	16345.1	14654.6	13091.9
-37.5°	26649.0	25524.3	24239.2	22846.2	21441.0	19933.0	18364.2	16824.7	15289.4	13794.8	12330.3
-40°	24324.6	23303.3	22215.4	20970.7	19720.0	18436.1	17047.4	15621.8	14245.6	12897.3	11535.8
-42.5°	22076.9	21187.6	20244.2	19168.1	18042.5	16934.3	15738.5	14450.9	13180.3	11955.7	10768.9
-45°	19930.2	19157.2	18316.9	17423.4	16433.8	15447.5	14424.8	13269.7	12112.9	11030.7	9962.3
-47.5°	17876.5	17211.1	16485.1	15743.7	14886.2	13990.3	13083.0	12081.0	11092.3	10100.0	9174.7
-50°	15905.9	15342.8	14738.1	14114.8	13406.0	12603.8	11801.8	10981.2	10090.0	9230.8	8384.7
-52.5°	14025.8	13593.3	13121.1	12594.3	12013.8	11324.2	10599.0	9904.4	9140.6	8384.2	7632.3
-55°	12421.3	12028.8	11635.0	11195.1	10715.4	10124.2	9503.6	8882.0	8254.5	7562.4	6910.6
-57.5°	10955.0	10590.4	10261.2	9894.3	9490.4	8998.6	8472.6	7926.2	7388.5	6791.7	6198.5
-60°	9612.0	9265.0	8987.9	8683.0	8350.7	7942.8	7495.0	7024.6	6532.6	6043.9	5542.1
-62.5°	8339.1	8035.9	7802.4	7558.8	7291.7	6974.5	6572.9	6174.4	5758.5	5324.9	4916.1
-65°	7187.6	6929.8	6719.5	6527.5	6316.0	6080.3	5728.7	5381.4	5036.8	4681.9	4316.7
-67.5°	6154.3	5935.5	5755.5	5591.0	5423.1	5237.2	4958.9	4656.1	4363.9	4073.9	3765.5
-70°	5220.9	5041.6	4887.3	4750.0	4607.1	4456.4	4242.0	3994.6	3741.7	3494.5	3236.8
-72.5°	4373.3	4227.1	4094.8	3984.0	3861.1	3736.5	3573.0	3369.8	3160.2	2944.5	2729.1
-75°	3587.0	3468.6	3357.3	3270.7	3176.3	3074.3	2949.0	2783.6	2616.1	2446.9	2274.6
-77.5°	2856.5	2765.4	2677.1	2613.4	2543.1	2466.3	2370.3	2239.1	2115.9	1990.1	1861.6
-80°	2202.8	2136.0	2070.0	2029.4	1985.4	1938.3	1880.3	1779.8	1677.0	1577.4	1482.2
-82.5°	1645.2	1599.4	1553.4	1532.2	1507.6	1479.5	1444.3	1371.4	1297.5	1222.7	1147.4
-85°	1213.8	1182.2	1150.2	1137.8	1123.6	1107.6	1088.7	1041.0	992.4	943.0	893.0
-87.5°	930.0	906.4	882.7	873.6	864.1	854.4	844.1	812.0	779.9	747.7	715.5
-90°	6.9	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.3	11.8





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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°	595.8	567.3	538.9	510.4	481.5	452.5	423.6	394.6	361.7	328.8	295.9
87.5°	21.6	22.9	24.0	25.0	24.5	24.0	23.5	22.8	23.8	24.4	24.8
85°	45.7	43.1	41.0	39.5	37.2	34.3	33.2	32.1	33.4	34.2	34.4
82.5°	82.7	75.5	68.7	63.3	61.6	58.9	55.3	50.7	48.2	44.9	44.1
80°	110.9	101.5	92.6	85.4	84.5	83.7	79.9	75.0	71.0	66.1	60.2
77.5°	140.7	127.7	114.8	105.5	102.6	100.0	97.9	97.0	93.9	87.4	79.6
75°	171.8	156.6	141.6	131.2	125.3	116.0	112.0	112.4	115.7	109.0	98.9
72.5°	203.8	187.8	170.1	160.0	156.8	148.5	134.9	129.7	138.3	135.3	120.7
70°	232.4	219.4	202.1	197.7	193.7	182.8	170.3	166.6	163.0	162.8	149.9
67.5°	258.6	247.0	232.0	238.2	237.6	227.7	208.4	210.2	208.8	192.1	180.0
65°	266.9	267.7	264.3	281.0	284.6	275.8	257.3	260.2	256.7	240.2	211.2
62.5°	275.3	282.8	295.9	326.4	335.7	328.7	312.2	322.9	309.7	289.7	254.4
60°	284.7	298.9	335.1	373.4	390.1	385.6	382.0	389.5	376.6	341.0	303.1
57.5°	315.9	322.3	386.8	430.9	449.7	447.6	460.2	467.4	446.6	405.6	353.7
55°	367.2	391.7	463.9	504.4	521.4	515.9	550.4	554.5	522.9	475.4	407.9
52.5°	467.7	523.9	586.1	608.1	610.7	611.8	658.7	648.1	613.3	547.4	476.1
50°	693.3	742.7	775.7	762.7	721.9	757.0	780.3	765.9	708.6	626.2	547.3
47.5°	1169.4	1149.0	1064.2	971.7	897.7	928.1	941.9	895.8	808.7	718.1	620.1
45°	1902.6	1733.2	1505.2	1307.0	1149.8	1167.1	1132.1	1036.3	938.0	817.5	694.3
42.5°	2700.0	2444.5	2154.2	1686.8	1538.2	1445.3	1343.3	1225.2	1075.1	920.1	778.3
40°	3636.2	3196.3	2860.4	2356.4	1952.3	1749.2	1615.0	1435.3	1218.6	1031.9	869.6
37.5°	4521.0	3982.5	3561.6	2988.1	2408.8	2133.9	1909.7	1660.1	1372.2	1156.7	962.2
35°	5338.9	4746.1	4159.9	3558.0	2952.9	2519.8	2221.2	1911.0	1551.1	1280.5	1055.7
32.5°	6138.9	5450.1	4769.1	4095.4	3452.8	2906.2	2560.2	2131.8	1722.7	1402.9	1149.9
30°	6961.6	6157.9	5375.6	4615.3	3918.4	3336.7	2866.0	2338.9	1886.8	1523.5	1246.3
27.5°	7787.5	6856.4	5983.9	5151.0	4380.6	3730.9	3099.7	2531.9	2043.0	1649.6	1346.8
25°	8634.2	7592.6	6611.7	5686.3	4823.8	4034.2	3323.9	2711.7	2202.4	1782.4	1444.6
22.5°	9494.9	8339.2	7222.8	6208.1	5191.8	4339.9	3558.8	2900.6	2356.2	1908.0	1539.4
20°	10304.9	9074.7	7794.6	6626.9	5555.2	4656.2	3808.6	3078.9	2497.9	2026.3	1630.9
17.5°	11085.9	9736.3	8302.5	7036.9	5907.4	4946.9	4052.2	3245.7	2627.7	2137.0	1718.6
15°	11894.4	10315.9	8793.8	7413.9	6228.6	5211.9	4286.9	3400.5	2745.6	2240.0	1792.3
12.5°	12617.9	10879.1	9252.6	7756.2	6518.1	5451.1	4509.9	3542.4	2851.7	2330.8	1849.9
10°	13262.0	11416.2	9673.4	8061.9	6775.4	5664.6	4718.5	3687.1	2976.5	2412.3	1903.3
7.5°	13825.6	11916.7	10050.5	8329.6	7002.3	5842.0	4876.6	3851.8	3100.0	2487.9	1952.0
5°	14289.3	12330.8	10412.9	8638.6	7212.1	5986.1	4997.7	4002.6	3216.5	2556.6	1995.4
2.5°	14591.7	12612.9	10737.4	8925.7	7391.9	6107.8	5089.7	4138.2	3323.7	2617.5	2032.6
0°	14814.9	12820.5	11000.8	9171.2	7538.0	6205.1	5156.9	4257.8	3419.6	2669.7	2063.1
-2.5°	15102.6	13023.8	11165.1	9365.8	7742.3	6377.7	5270.9	4333.4	3486.8	2734.8	2113.8
-5°	15300.8	13156.9	11272.1	9512.1	7907.5	6519.6	5362.1	4391.8	3540.7	2789.8	2156.6
-7.5°	15439.3	13264.4	11343.6	9609.2	8031.5	6627.1	5428.2	4432.6	3581.3	2834.2	2191.2
-10°	15492.5	13322.3	11382.2	9638.0	8070.6	6677.8	5467.3	4455.8	3608.8	2867.6	2217.0
-12.5°	15450.3	13294.6	11352.6	9614.6	8058.6	6676.7	5482.1	4474.0	3624.3	2889.6	2233.8
-15°	15312.1	13178.1	11252.6	9538.2	8002.5	6642.5	5472.3	4478.4	3630.7	2897.1	2241.1
-17.5°	15065.6	12970.3	11080.7	9408.6	7901.7	6575.0	5438.0	4461.7	3621.2	2888.8	2235.9
-20°	14717.4	12697.4	10846.1	9225.7	7756.0	6474.3	5379.3	4423.7	3595.3	2867.6	2219.5



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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°	14301.7	12387.3	10620.9	9019.6	7585.7	6340.4	5296.1	4363.7	3552.9	2833.4	2194.1
-25°	13815.0	12024.0	10336.3	8795.1	7407.4	6222.2	5200.5	4281.7	3493.6	2786.0	2160.0
-27.5°	13332.6	11620.2	9987.1	8526.0	7217.6	6078.6	5091.5	4201.3	3421.8	2725.1	2117.0
-30°	12827.2	11180.7	9633.4	8231.4	6990.2	5915.4	4956.8	4101.8	3342.6	2661.0	2065.3
-32.5°	12237.5	10672.0	9248.4	7945.4	6763.3	5718.1	4796.9	3982.4	3247.3	2592.6	2015.9
-35°	11589.9	10160.1	8825.9	7619.6	6510.5	5517.9	4625.9	3843.2	3135.9	2514.1	1962.4
-37.5°	10901.4	9615.5	8430.2	7274.7	6215.3	5288.9	4453.9	3698.7	3008.5	2425.8	1901.6
-40°	10260.3	9055.4	7955.5	6909.3	5921.5	5031.8	4260.3	3546.6	2889.2	2327.8	1833.6
-42.5°	9575.3	8494.2	7470.8	6491.7	5610.3	4794.6	4049.4	3380.0	2770.9	2234.7	1758.5
-45°	8919.1	7910.1	6963.6	6098.2	5279.0	4535.5	3849.3	3203.8	2638.5	2140.5	1681.8
-47.5°	8235.9	7328.6	6472.0	5676.7	4966.7	4266.4	3634.2	3037.8	2492.3	2038.4	1604.9
-50°	7575.2	6752.2	5983.4	5277.1	4617.2	4013.8	3410.2	2855.0	2361.1	1924.2	1520.5
-52.5°	6909.1	6192.0	5509.3	4870.4	4292.7	3746.1	3185.5	2660.2	2218.5	1808.6	1428.8
-55°	6259.9	5652.8	5041.1	4480.9	3959.1	3463.1	2942.9	2484.7	2065.0	1688.1	1332.1
-57.5°	5654.1	5115.0	4594.3	4092.9	3616.2	3157.0	2713.5	2297.1	1912.8	1559.6	1245.9
-60°	5056.2	4609.3	4148.2	3699.5	3263.5	2862.6	2487.3	2103.8	1754.9	1428.3	1151.6
-62.5°	4506.6	4103.3	3706.0	3297.6	2927.8	2585.0	2252.7	1912.8	1588.4	1309.3	1051.2
-65°	3970.9	3616.3	3257.4	2929.1	2608.6	2304.7	2021.3	1712.5	1436.8	1184.4	953.3
-67.5°	3447.9	3153.0	2859.9	2566.3	2299.3	2039.0	1779.5	1527.3	1284.6	1054.1	869.1
-70°	2974.3	2712.4	2472.0	2238.4	2002.7	1772.4	1563.4	1345.0	1126.5	949.7	781.7
-72.5°	2523.1	2318.6	2116.2	1913.0	1724.4	1536.1	1348.7	1165.3	1000.5	842.4	691.4
-75°	2099.5	1941.2	1786.5	1627.9	1461.5	1297.9	1157.3	1017.2	871.7	732.1	615.3
-77.5°	1731.1	1600.8	1471.1	1350.4	1224.1	1101.5	982.8	865.2	747.5	642.6	543.0
-80°	1387.9	1293.4	1198.9	1103.1	1000.7	902.0	818.8	734.9	642.2	553.5	469.0
-82.5°	1073.8	1009.5	947.2	883.5	814.2	745.6	677.8	610.0	534.8	462.5	407.0
-85°	844.2	794.7	744.6	693.7	640.4	587.7	548.8	509.4	462.7	416.4	370.5
-87.5°	684.0	652.2	620.1	587.8	554.2	520.4	486.5	452.4	412.5	372.9	333.5
-90°	12.3	12.8	13.2	13.7	13.7	13.7	13.7	13.7	14.2	14.7	15.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	263.0	217.9	172.7	127.6	82.4	48.1	13.7
87.5°	24.8	24.1	23.0	21.7	20.0	17.4	13.7
85°	34.0	32.5	30.4	27.6	24.3	20.2	13.7
82.5°	43.2	40.9	37.7	33.6	28.5	22.9	13.7
80°	53.4	49.3	45.0	39.5	32.8	25.6	13.7
77.5°	71.1	61.1	52.3	45.4	37.2	28.3	13.7
75°	89.2	79.2	61.4	51.3	41.5	31.0	13.7
72.5°	107.7	97.6	78.5	57.2	45.9	33.7	13.7
70°	128.2	116.2	95.6	64.7	50.3	36.4	13.7
67.5°	159.6	135.2	112.8	79.2	54.7	39.1	13.7
65°	191.8	160.1	130.2	93.6	59.1	41.7	13.7
62.5°	224.9	190.9	147.7	108.0	63.6	44.3	13.7
60°	259.0	222.2	165.3	122.4	68.2	46.9	13.7
57.5°	305.9	254.0	192.2	136.7	78.6	49.5	13.7
55°	355.3	286.3	219.7	150.9	88.9	52.0	13.7
52.5°	405.6	320.8	247.2	165.1	99.1	54.5	13.7
50°	456.7	364.9	274.8	179.2	109.2	56.9	13.7
47.5°	510.4	409.1	302.3	194.8	119.0	59.3	13.7
45°	574.7	453.6	329.9	215.7	128.6	61.7	13.7
42.5°	639.4	498.1	357.4	236.2	138.0	64.0	13.7
40°	704.4	542.6	388.6	256.4	147.2	66.2	13.7
37.5°	769.7	587.1	423.2	276.2	156.0	68.4	13.7
35°	834.9	636.7	457.2	295.3	164.6	70.6	13.7
32.5°	903.6	688.5	490.5	313.7	172.9	72.6	13.7
30°	980.0	739.5	523.1	331.3	180.9	74.6	13.7
27.5°	1055.5	789.3	552.8	348.2	188.5	76.5	13.7
25°	1129.7	837.9	580.8	364.3	195.7	78.3	13.7
22.5°	1202.4	882.8	607.4	379.5	202.6	80.0	13.7
20°	1273.0	920.1	632.4	393.7	209.0	81.6	13.7
17.5°	1328.5	954.6	655.7	407.0	215.1	83.1	13.7
15°	1371.6	986.3	677.3	419.3	220.6	84.5	13.7
12.5°	1409.7	1014.9	697.0	430.5	225.7	85.8	13.7
10°	1442.8	1040.5	714.9	440.6	230.3	87.0	13.7
7.5°	1470.9	1063.0	730.7	449.6	234.4	88.0	13.7
5°	1494.0	1082.3	744.5	457.3	238.0	88.9	13.7
2.5°	1512.1	1098.3	756.2	463.9	241.0	89.7	13.7
0°	1525.3	1111.1	765.6	469.2	243.4	90.3	13.7
-2.5°	1562.0	1131.8	778.1	476.3	247.1	92.1	13.7
-5°	1593.3	1149.0	788.3	482.0	250.3	93.7	13.7
-7.5°	1618.8	1162.4	795.9	486.4	252.8	95.1	13.7
-10°	1638.0	1172.0	801.0	489.4	254.8	96.4	13.7
-12.5°	1650.5	1177.5	803.4	490.9	256.1	97.6	13.7
-15°	1655.8	1178.8	803.2	490.9	256.7	98.5	13.7
-17.5°	1653.6	1175.7	800.1	489.4	256.8	99.3	13.7
-20°	1644.5	1168.2	794.2	486.4	256.2	100.0	13.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1630.1	1156.2	785.4	481.9	255.0	100.4	13.7
-25°	1609.2	1144.3	773.7	475.8	253.1	100.7	13.7
-27.5°	1582.0	1129.6	759.0	468.2	250.6	100.7	13.7
-30°	1548.4	1110.0	741.9	459.0	247.5	100.6	13.7
-32.5°	1508.5	1085.5	726.3	448.2	243.7	100.3	13.7
-35°	1471.3	1056.0	707.5	435.9	239.3	99.8	13.7
-37.5°	1431.4	1024.4	685.6	422.0	234.3	99.2	13.7
-40°	1385.2	993.9	660.7	406.7	228.7	98.3	13.7
-42.5°	1332.5	959.3	637.5	390.7	222.5	97.3	13.7
-45°	1273.6	920.5	616.6	375.1	215.6	96.1	13.7
-47.5°	1208.6	877.6	593.3	357.7	208.3	94.7	13.7
-50°	1149.5	830.8	567.5	345.5	200.3	93.1	13.7
-52.5°	1087.3	780.2	539.5	334.1	191.8	91.4	13.7
-55°	1020.3	738.5	509.1	321.5	182.8	89.5	13.7
-57.5°	948.7	696.2	476.6	307.6	173.3	87.4	13.7
-60°	874.9	651.0	442.6	292.6	163.4	85.1	13.7
-62.5°	814.7	603.1	419.1	276.5	158.2	82.7	13.7
-65°	751.1	552.5	393.9	259.3	152.7	80.2	13.7
-67.5°	684.3	507.7	367.2	241.1	146.9	77.5	13.7
-70°	614.5	469.1	339.0	222.0	140.7	74.7	13.7
-72.5°	559.1	428.6	309.5	210.1	134.2	71.7	13.7
-75°	503.9	386.4	278.8	199.6	127.5	68.7	13.7
-77.5°	446.6	342.7	260.1	188.6	120.5	65.5	13.7
-80°	387.6	312.6	243.7	177.1	113.3	62.2	13.7
-82.5°	354.8	289.9	226.7	165.3	105.8	58.8	13.7
-85°	324.9	266.4	209.1	153.0	98.2	55.3	13.7
-87.5°	294.3	242.4	191.1	140.4	90.4	51.7	13.7
-90°	15.7	15.7	15.7	15.7	15.7	14.7	13.7

(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

