

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: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-7F-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-57-70-7F-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

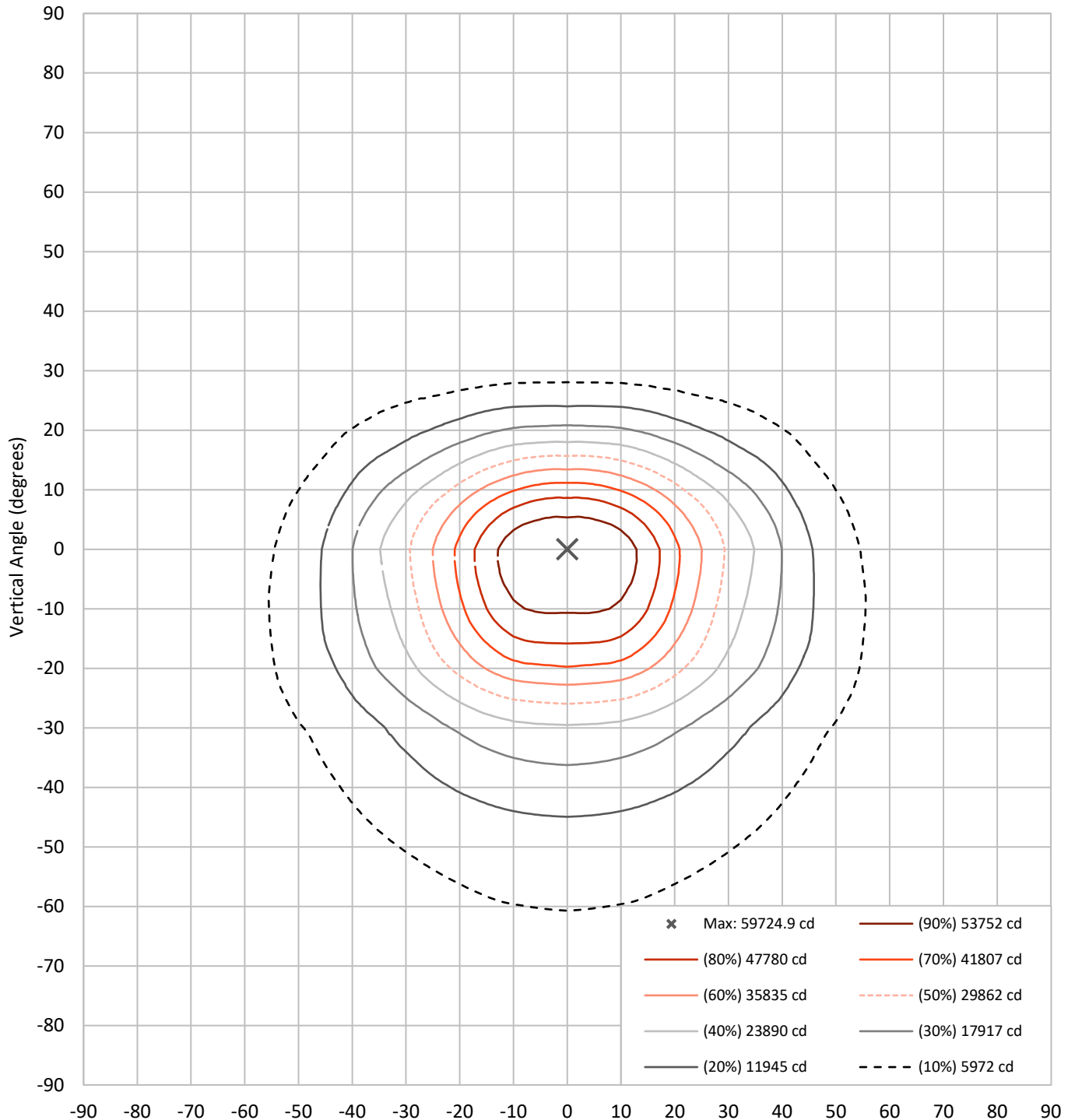
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	52252.3 lumens	Max Intensity:	59724.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	74.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 41.6°V	Field Angle (10%):	109°H x 88.8°V
Beam Lumens:	25331.4 lumens	Field Lumens:	47457.4 lumens
Beam Efficiency:	48.5%	Field Efficiency:	90.8%

Input Watts (W): 697.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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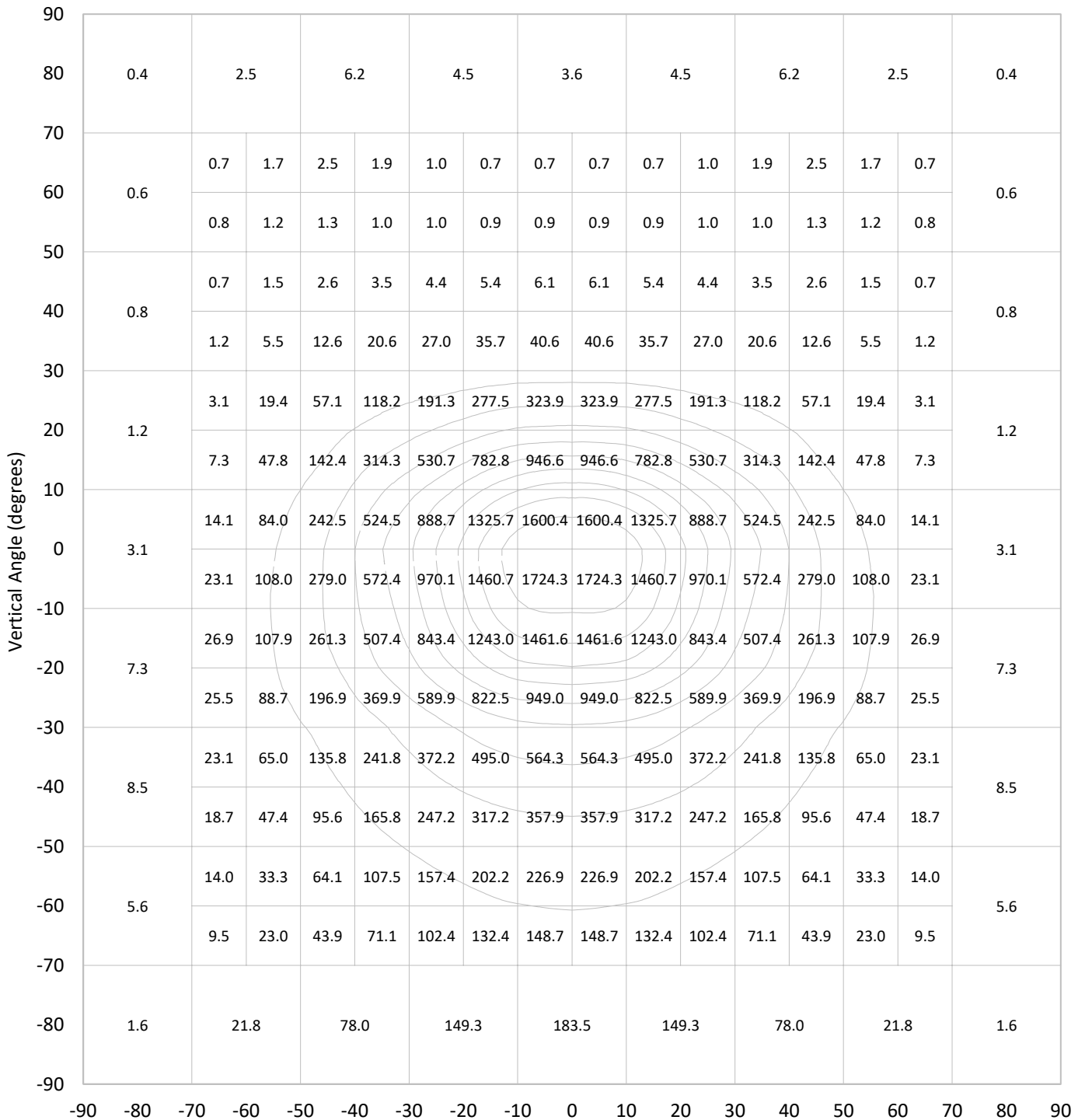
### Iso-Candela Plot





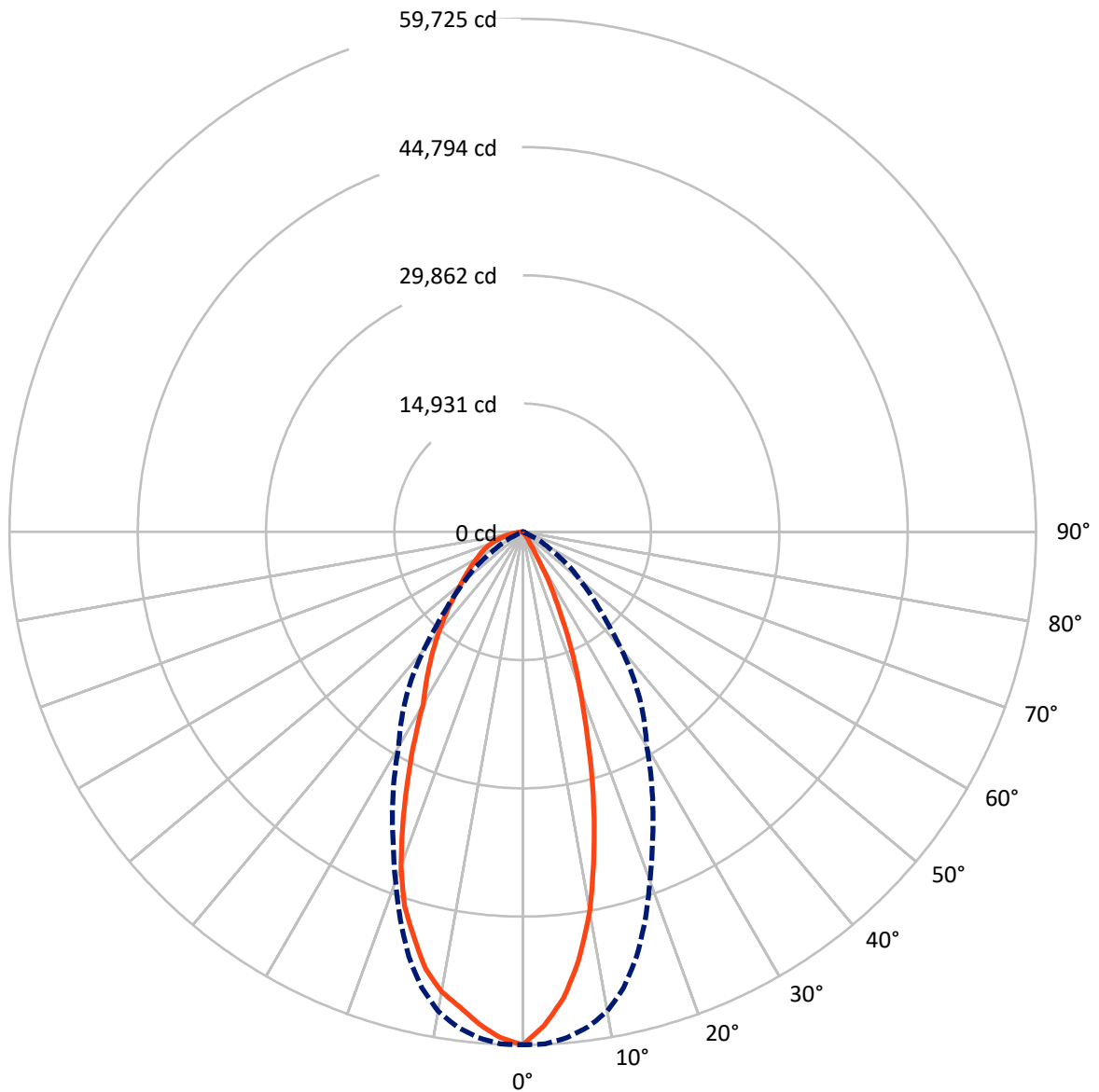
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### Lumen Table



REPORT NUMBER: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0680N-57-70-7F-CV2

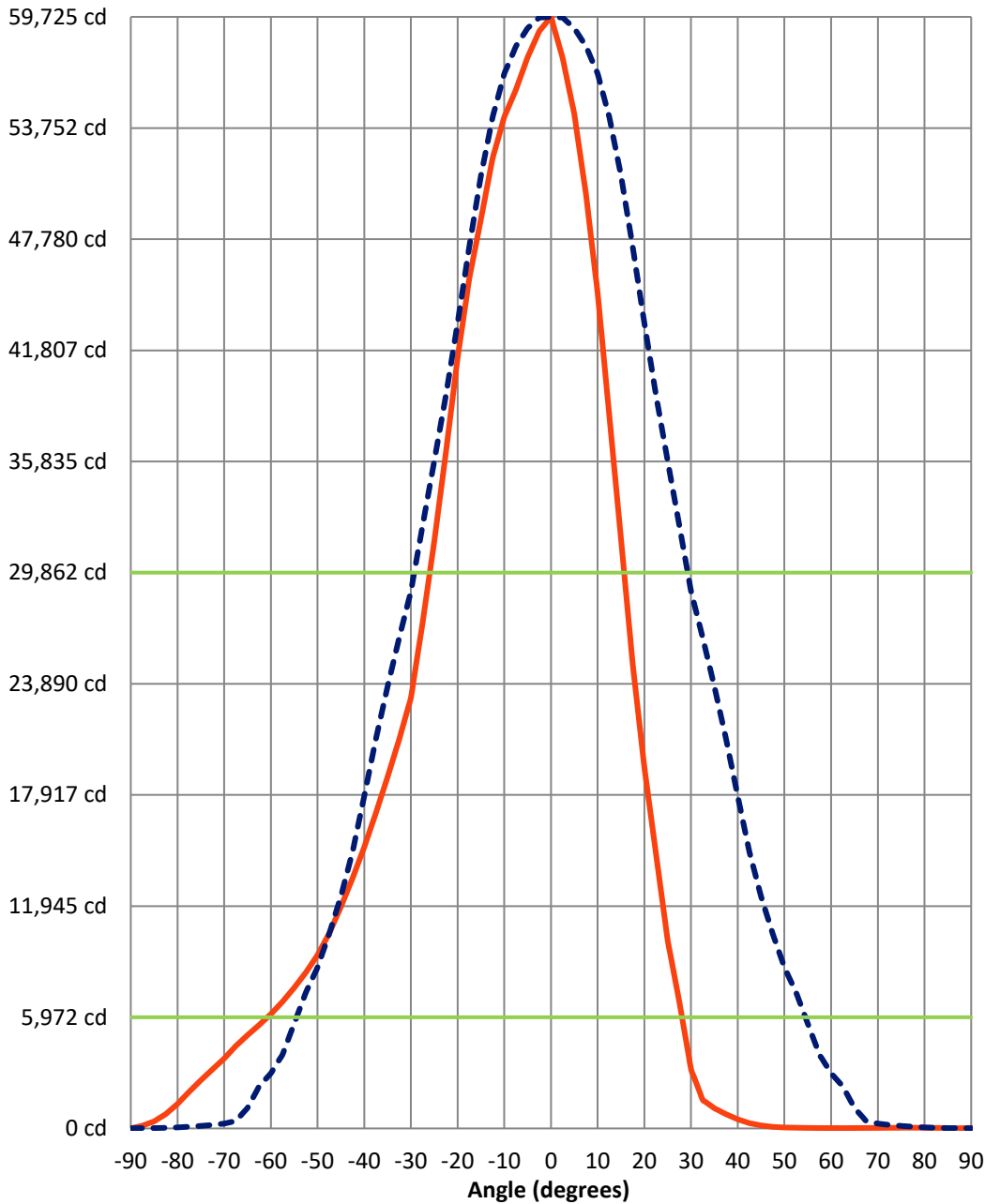
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 58.6°  
 V Angle: 41.6°  
 Lumens: 25331.4  
 Efficiency: 48.5%

**Field:**  
 H Angle: 109°  
 V Angle: 88.8°  
 Lumens: 47457.4  
 Efficiency: 90.8%

**Spill:**  
 Lumens: 4794.9  
 Efficiency: 9.2%

— Vertical Distribution through 0-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°	8.4	9.5	10.5	11.0	11.6	12.1	12.6	13.1	13.7	14.2	14.7
87.5°	8.4	8.7	9.1	9.7	10.4	11.2	12.2	12.5	12.7	12.8	12.8
85°	8.4	9.0	9.9	11.0	12.4	14.1	16.0	16.6	17.0	17.3	17.3
82.5°	8.4	9.4	10.6	12.3	14.4	16.9	19.7	20.7	21.4	22.8	25.5
80°	8.4	9.7	11.3	13.5	16.3	19.6	23.0	23.6	25.8	29.8	35.7
77.5°	8.4	10.0	12.0	14.8	18.2	21.4	23.4	25.6	30.0	36.6	43.4
75°	8.4	10.3	12.7	16.0	19.7	21.5	23.8	27.4	33.5	39.1	44.7
72.5°	8.4	10.6	13.4	17.2	19.6	21.6	24.1	28.8	34.5	40.2	45.9
70°	8.4	10.9	14.1	18.1	19.5	21.6	24.4	29.5	35.4	41.2	47.7
67.5°	8.4	11.2	14.7	17.8	19.3	21.5	25.3	30.2	36.2	42.9	49.6
65°	8.4	11.5	15.3	17.6	19.1	21.9	26.1	30.8	37.5	44.4	52.0
62.5°	8.4	11.7	15.9	17.3	18.9	22.6	26.9	31.8	38.8	46.2	55.8
60°	8.4	12.0	16.5	17.0	18.6	23.3	27.7	32.8	39.9	49.3	59.3
57.5°	8.4	12.3	16.4	16.7	19.1	24.0	28.9	33.8	42.1	52.1	61.1
55°	8.4	12.5	16.3	16.4	19.7	24.7	30.2	35.2	44.3	54.4	62.1
52.5°	8.4	12.7	16.2	16.0	20.2	25.4	31.6	37.6	46.4	55.5	63.2
50°	8.4	13.0	16.1	15.6	20.8	26.6	32.9	40.1	48.0	56.7	61.4
47.5°	8.4	13.2	16.1	15.4	21.3	27.7	34.4	42.6	49.0	57.8	59.6
45°	8.4	13.4	16.1	15.8	21.7	28.9	36.5	45.1	51.6	56.5	58.0
42.5°	8.4	13.6	16.1	16.1	22.2	30.0	38.6	47.7	54.6	55.3	56.3
40°	8.4	13.7	16.1	16.8	22.8	31.1	40.7	50.6	57.5	54.8	55.1
37.5°	8.4	13.9	16.2	17.6	23.6	32.2	42.8	53.6	60.1	58.1	54.5
35°	8.4	14.1	16.3	18.5	24.4	33.6	44.7	56.9	63.3	62.7	58.5
32.5°	8.4	14.2	16.4	19.5	25.2	35.1	46.9	60.4	67.3	68.7	75.2
30°	8.4	14.3	16.5	20.4	25.9	36.6	49.6	64.0	71.9	75.9	92.3
27.5°	8.4	14.4	16.7	21.4	27.9	37.9	52.3	67.6	77.5	84.2	109.7
25°	8.4	14.5	16.8	22.4	30.2	39.2	55.0	71.5	84.1	97.2	129.2
22.5°	8.4	14.6	17.0	23.4	32.6	41.6	57.8	75.7	91.4	112.0	191.6
20°	8.4	14.7	17.2	24.4	35.1	46.8	60.4	80.1	99.2	126.7	257.7
17.5°	8.4	14.7	17.4	25.4	37.7	52.3	67.5	84.7	107.5	141.2	326.1
15°	8.4	14.7	17.6	26.4	40.2	58.1	77.3	94.0	116.0	155.3	395.7
12.5°	8.4	14.8	17.9	27.3	42.8	63.9	87.4	109.4	133.6	169.1	464.9
10°	8.4	14.8	18.1	28.2	45.3	69.8	97.5	125.0	158.8	210.7	556.1
7.5°	8.4	14.8	18.3	29.1	47.8	75.7	107.5	140.8	184.5	257.7	697.8
5°	8.4	14.8	18.5	30.0	50.1	81.4	117.4	156.4	210.1	305.3	838.9
2.5°	8.4	14.7	18.7	30.8	52.4	87.0	127.1	171.8	235.4	352.6	974.7
0°	8.4	14.7	18.9	31.5	54.5	92.3	136.3	186.6	260.0	398.4	1100.9
-2.5°	8.4	15.0	20.3	36.1	65.1	112.1	171.6	245.0	351.9	547.0	1295.7
-5°	8.4	15.2	21.6	40.7	75.4	131.2	206.0	301.8	441.3	690.2	1473.8
-7.5°	8.4	15.5	22.9	45.0	85.3	149.6	238.9	356.3	526.7	825.4	1632.5
-10°	8.4	15.7	24.1	49.1	94.7	166.9	269.8	407.7	606.8	949.9	1769.5
-12.5°	8.4	15.9	25.3	52.9	103.3	182.9	298.4	455.2	680.3	1056.9	1821.4
-15°	8.4	16.1	26.4	56.4	111.3	197.5	324.1	498.0	744.8	1122.3	1829.5
-17.5°	8.4	16.2	27.4	59.5	118.3	210.4	346.7	538.8	800.4	1178.2	1826.5
-20°	8.4	16.4	28.4	62.2	124.4	221.5	368.8	576.8	848.4	1224.3	1813.8



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.4	16.5	29.2	64.5	129.4	230.6	392.2	609.4	888.4	1260.0	1792.7
-25°	8.4	16.6	29.9	66.2	133.2	242.5	411.7	635.9	919.9	1285.1	1764.3
-27.5°	8.4	16.6	30.5	67.4	135.9	253.8	426.8	656.2	942.4	1305.8	1782.2
-30°	8.4	16.7	31.0	68.0	137.7	262.3	437.5	669.8	961.1	1327.6	1789.3
-32.5°	8.4	16.7	31.3	68.0	141.9	267.9	443.6	680.4	974.3	1337.3	1783.1
-35°	8.4	16.6	31.5	67.4	144.4	270.4	448.4	685.5	978.3	1334.5	1763.3
-37.5°	8.4	16.6	31.6	66.2	145.3	271.0	450.1	684.0	972.9	1319.1	1677.2
-40°	8.4	16.5	31.5	64.4	144.4	271.2	447.2	675.7	958.1	1300.5	1591.0
-42.5°	8.4	16.4	31.2	62.6	143.1	268.5	439.6	660.5	939.0	1237.9	1499.2
-45°	8.4	16.2	30.9	61.5	141.7	263.0	427.3	641.8	913.5	1165.9	1404.6
-47.5°	8.4	16.0	30.3	59.5	138.8	254.6	410.5	621.0	878.4	1090.4	1320.3
-50°	8.4	15.8	29.7	59.0	134.4	243.6	394.8	593.9	817.0	1021.3	1232.1
-52.5°	8.4	15.6	28.8	58.3	128.6	229.7	376.2	560.8	759.3	949.2	1141.6
-55°	8.4	15.3	27.9	57.0	121.4	218.0	353.7	522.9	701.6	874.2	1058.6
-57.5°	8.4	15.0	26.8	55.0	112.8	205.0	327.5	488.3	641.1	803.8	972.8
-60°	8.4	14.7	25.6	52.4	103.1	189.9	298.8	445.0	580.0	732.7	887.2
-62.5°	8.4	14.4	24.7	49.1	96.2	172.9	274.6	397.2	523.2	658.8	804.8
-65°	8.4	14.0	23.7	45.3	88.2	154.0	247.8	350.3	463.4	587.3	719.6
-67.5°	8.4	13.6	22.6	40.9	79.2	136.1	218.5	309.0	400.9	513.9	633.7
-70°	8.4	13.2	21.4	36.1	69.3	119.4	187.0	265.7	347.2	437.5	545.2
-72.5°	8.4	12.8	20.2	33.0	58.6	101.4	159.0	220.6	291.4	370.0	455.9
-75°	8.4	12.4	18.9	30.2	47.1	82.1	130.1	179.7	233.7	300.2	373.0
-77.5°	8.4	11.9	17.6	27.2	40.6	61.9	99.7	139.6	183.3	231.5	287.7
-80°	8.4	11.4	16.2	24.1	35.1	49.0	68.1	98.5	132.5	170.2	211.4
-82.5°	8.4	10.9	14.8	21.0	29.4	40.0	52.8	65.1	80.8	107.7	137.2
-85°	8.4	10.5	13.4	17.7	23.5	30.8	39.6	48.0	57.2	67.3	78.3
-87.5°	8.4	10.0	12.0	14.4	17.5	21.5	26.1	30.6	35.5	40.8	46.6
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4





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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	15.2	15.8	16.3	16.8	17.3	17.9	18.4	18.9	20.0	21.0	22.1
87.5°	13.5	14.2	14.9	15.6	14.3	12.8	11.1	9.3	9.8	10.3	10.9
85°	18.6	19.9	21.7	23.1	22.1	21.2	20.6	20.1	21.2	22.2	22.9
82.5°	28.1	29.9	31.1	31.6	32.2	33.3	35.1	38.8	41.2	42.5	43.1
80°	38.5	40.0	41.2	44.1	49.0	55.0	61.8	69.3	71.3	70.9	69.6
77.5°	45.0	47.7	52.7	59.8	68.1	76.5	85.8	95.9	98.5	97.3	95.3
75°	48.9	54.8	63.0	73.2	83.9	95.2	107.2	118.2	120.9	117.4	113.1
72.5°	52.3	60.9	71.8	85.1	97.5	109.1	121.3	134.1	139.0	133.1	125.3
70°	55.3	66.1	79.4	93.6	107.8	120.1	132.1	145.9	154.7	143.7	126.6
67.5°	57.9	71.5	86.0	100.6	112.7	125.0	139.5	145.4	148.7	130.9	112.6
65°	61.8	76.4	89.4	101.6	114.3	120.3	125.1	129.6	127.8	107.7	88.3
62.5°	65.7	77.5	89.7	99.5	103.5	107.2	106.5	102.3	95.8	83.3	68.2
60°	67.1	77.2	86.0	90.2	91.7	88.4	83.4	79.5	73.9	63.2	53.1
57.5°	67.9	73.8	78.7	80.0	76.1	70.9	69.0	63.5	59.4	52.6	43.6
55°	67.4	68.3	70.7	67.8	64.8	62.8	59.7	58.0	52.2	45.9	39.2
52.5°	64.5	63.5	61.4	60.0	60.9	60.5	59.5	56.5	51.2	44.9	41.1
50°	62.0	58.2	54.8	59.6	63.8	67.3	61.9	58.6	58.4	55.4	49.3
47.5°	58.8	53.9	56.8	64.0	76.2	80.7	73.1	72.9	75.4	81.3	74.0
45°	55.9	57.7	62.4	80.4	95.2	102.1	103.2	95.1	115.2	121.9	119.8
42.5°	53.8	65.7	87.2	99.8	123.7	138.4	144.2	156.2	168.1	182.7	186.5
40°	61.6	76.3	124.7	146.0	160.8	185.9	216.3	236.2	239.8	262.0	272.0
37.5°	72.0	118.8	175.7	212.6	211.6	255.3	300.8	348.6	375.4	354.3	403.1
35°	83.5	168.7	249.4	303.2	316.7	343.8	424.1	515.4	603.7	552.0	577.2
32.5°	118.1	225.9	335.5	417.8	497.8	516.1	565.8	813.4	973.6	976.2	847.3
30°	174.6	306.4	438.2	550.6	735.7	820.7	900.1	1207.6	1477.0	1650.4	1687.2
27.5°	245.5	398.5	563.7	766.1	1028.5	1181.8	1439.0	1769.2	2193.1	2510.5	2729.9
25°	325.1	540.8	701.0	1038.7	1378.0	1659.5	2020.6	2475.0	3069.6	3578.3	4053.3
22.5°	427.5	706.0	918.7	1344.1	1765.3	2176.0	2677.4	3330.8	4087.3	4748.9	5421.9
20°	556.3	893.7	1202.7	1720.8	2205.6	2700.0	3343.3	4251.9	5209.6	6144.8	7018.1
17.5°	695.7	1091.4	1520.8	2151.2	2807.2	3366.1	4039.8	5208.5	6391.4	7675.8	8947.7
15°	842.5	1296.3	1836.1	2620.7	3453.0	4214.1	5105.1	6295.7	7702.2	9349.7	10990.7
12.5°	993.3	1504.9	2145.5	3117.7	4126.6	5077.6	6212.0	7570.5	9185.4	11139.1	13128.9
10°	1144.3	1713.7	2445.5	3629.0	4814.9	5945.2	7291.1	8801.2	10647.7	12843.1	15093.9
7.5°	1417.9	1988.1	2756.7	4140.6	5503.7	6804.2	8332.7	9979.5	12032.6	14473.2	16935.1
5°	1710.2	2326.0	3181.2	4677.2	6154.1	7558.0	9269.3	11094.3	13329.3	16008.4	18677.9
2.5°	1994.0	2651.1	3586.2	5178.3	6752.1	8132.9	9899.2	11818.2	14185.1	17080.3	20001.7
0°	2260.6	2961.0	3967.5	5632.6	7301.8	8652.3	10457.8	12462.5	14861.5	17847.6	20921.8
-2.5°	2501.3	3244.3	4288.5	5910.4	7471.5	8780.8	10599.1	12609.5	14982.3	17850.4	20692.4
-5°	2713.1	3508.2	4579.3	6142.5	7598.3	8866.0	10666.2	12668.8	14995.7	17722.0	20375.6
-7.5°	2893.4	3751.3	4838.1	6309.4	7665.8	8934.3	10680.4	12647.8	14916.6	17488.7	20001.4
-10°	3013.8	3851.5	4854.3	6266.0	7647.3	8961.8	10631.6	12546.5	14731.0	17157.6	19537.6
-12.5°	2936.0	3814.4	4796.6	6169.5	7583.5	8926.2	10517.8	12368.8	14442.7	16747.4	18989.8
-15°	2847.9	3752.9	4702.5	6018.1	7474.5	8823.5	10342.4	12118.9	13947.8	16075.9	18288.4
-17.5°	2753.9	3666.0	4570.9	5810.5	7321.0	8650.0	10017.7	11460.0	13138.0	15225.2	17410.8
-20°	2658.4	3552.8	4400.9	5545.6	7110.1	8209.0	9328.5	10669.3	12260.4	14203.4	16391.4



REPORT NUMBER: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2565.1	3412.5	4221.6	5312.9	6548.4	7585.3	8596.9	9803.4	11248.4	13006.7	14924.0
-25°	2494.9	3267.2	4047.9	4932.4	5958.0	6951.7	7811.8	8881.4	10195.9	11699.8	13216.8
-27.5°	2440.4	3138.3	3802.1	4556.9	5403.1	6312.9	7076.8	7995.1	9232.8	10437.4	11608.2
-30°	2382.3	2967.7	3553.1	4210.7	4958.6	5713.1	6375.9	7272.1	8373.3	9412.7	10344.7
-32.5°	2270.4	2787.4	3335.0	3927.7	4554.9	5176.5	5870.1	6719.2	7639.5	8533.3	9280.9
-35°	2137.7	2618.3	3125.0	3648.1	4178.0	4779.0	5469.8	6198.0	6976.8	7784.9	8636.9
-37.5°	2026.4	2442.1	2908.9	3389.0	3878.3	4438.1	5056.1	5724.8	6415.3	7137.9	7971.9
-40°	1906.7	2259.6	2703.5	3148.4	3598.7	4102.3	4670.3	5263.5	5882.3	6566.7	7288.5
-42.5°	1782.1	2118.2	2498.3	2902.9	3325.3	3776.5	4270.7	4822.1	5390.9	5992.0	6636.8
-45°	1674.8	1969.4	2295.9	2672.8	3048.5	3447.6	3894.1	4374.6	4908.4	5443.5	6004.7
-47.5°	1562.0	1821.6	2124.7	2439.0	2784.2	3137.9	3511.7	3964.3	4425.3	4915.9	5402.1
-50°	1449.4	1692.4	1946.8	2236.5	2532.5	2842.5	3170.3	3575.0	3998.0	4410.5	4836.8
-52.5°	1348.5	1558.0	1796.8	2042.7	2306.5	2575.5	2879.4	3231.5	3604.2	3971.5	4351.1
-55°	1244.0	1440.3	1650.4	1872.0	2098.4	2337.6	2617.4	2931.0	3237.4	3579.3	3919.0
-57.5°	1145.1	1326.1	1517.3	1712.7	1916.1	2122.8	2392.2	2653.0	2937.6	3221.3	3516.0
-60°	1048.4	1216.0	1391.4	1568.6	1744.9	1952.1	2180.8	2423.5	2665.8	2907.1	3182.7
-62.5°	950.5	1110.8	1270.5	1431.3	1595.1	1787.3	2005.2	2219.1	2425.6	2655.4	2889.2
-65°	857.1	1003.3	1154.1	1302.7	1448.1	1634.4	1830.8	2033.1	2233.9	2426.7	2625.4
-67.5°	760.1	893.4	1032.4	1175.4	1315.2	1476.8	1652.2	1836.5	2023.8	2201.3	2383.3
-70°	658.3	778.4	903.8	1033.5	1169.0	1313.1	1463.1	1624.4	1790.2	1947.1	2105.5
-72.5°	552.2	656.3	767.2	884.6	1002.5	1126.0	1257.4	1396.0	1531.7	1663.2	1800.1
-75°	449.0	530.6	623.4	722.2	822.6	927.0	1036.7	1149.8	1258.8	1365.6	1475.6
-77.5°	347.6	412.2	482.6	558.3	633.5	714.5	800.4	890.6	975.3	1058.5	1142.8
-80°	250.7	291.3	342.7	398.8	455.4	513.2	572.5	633.1	687.3	744.2	805.5
-82.5°	165.1	194.3	224.9	256.8	288.9	322.2	358.3	401.0	436.8	472.2	507.8
-85°	87.2	96.3	114.7	134.2	153.0	172.6	192.8	213.7	232.3	249.9	266.8
-87.5°	51.3	56.1	61.0	66.1	70.3	74.4	78.5	82.6	88.3	94.0	99.7
-90°	8.4	8.4	8.4	8.4	7.9	7.4	6.8	6.3	6.3	6.3	6.3



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	23.1	24.2	25.2	26.3	27.3	27.8	28.4	28.9	29.4	29.9	30.5
87.5°	11.5	11.2	10.9	10.5	10.1	12.5	15.1	17.7	20.4	18.6	16.6
85°	23.3	23.3	23.1	22.8	22.5	25.9	29.5	33.0	36.5	33.4	30.0
82.5°	43.0	42.1	40.7	38.6	36.0	35.6	35.0	33.8	32.2	30.8	29.5
80°	67.5	64.4	60.4	55.5	49.9	46.9	44.0	40.7	37.2	36.2	35.3
77.5°	91.5	85.4	78.2	70.4	62.0	56.8	52.1	47.2	41.9	40.5	39.6
75°	108.0	100.3	89.7	78.5	66.7	58.8	52.9	47.0	41.3	39.2	38.0
72.5°	115.7	104.4	91.3	76.3	61.8	52.3	46.5	41.2	36.2	34.2	33.2
70°	109.9	93.9	79.0	64.6	51.1	42.2	37.9	34.4	31.4	29.9	29.0
67.5°	93.7	77.4	63.2	50.6	40.2	33.4	31.1	29.0	27.1	26.1	25.7
65°	72.6	60.0	49.1	40.1	33.1	28.4	26.6	24.8	23.1	22.1	21.7
62.5°	55.0	45.3	38.2	32.6	28.2	25.0	23.6	22.5	21.5	20.9	20.4
60°	44.0	35.9	31.5	28.5	25.8	23.5	23.1	22.9	22.6	22.2	21.4
57.5°	37.7	32.7	29.4	28.7	27.5	25.9	25.5	25.4	24.5	23.0	22.3
55°	36.0	34.8	33.4	34.0	34.0	32.7	30.8	29.5	28.3	27.1	27.3
52.5°	40.1	42.8	44.3	44.1	42.0	38.8	35.2	35.7	36.5	37.0	37.7
50°	53.6	56.9	56.8	52.2	51.9	50.1	45.8	47.8	50.5	51.1	51.5
47.5°	74.4	77.6	79.8	71.6	73.0	77.4	72.8	71.4	80.3	84.2	86.2
45°	108.4	121.7	125.5	128.0	124.4	136.0	136.1	130.7	147.9	157.3	160.5
42.5°	180.7	203.1	220.8	225.9	221.7	236.1	247.1	246.3	268.0	283.4	287.4
40°	302.3	323.4	348.8	358.2	362.3	375.5	403.3	421.3	443.1	467.1	479.3
37.5°	458.4	491.4	496.6	516.1	540.5	552.8	595.1	631.2	660.8	705.9	734.8
35°	687.0	774.4	680.2	724.9	786.8	793.9	832.3	915.8	936.6	1015.5	1059.1
32.5°	1108.8	1271.6	1250.2	1098.8	1231.9	1382.9	1214.7	1513.8	1487.1	1571.3	1678.3
30°	1750.0	2223.1	2275.7	2054.4	2423.7	2624.1	2592.0	2890.0	3081.0	3057.4	3428.1
27.5°	3121.9	3501.4	3673.7	3991.6	4191.2	4486.7	5007.0	5310.2	5855.4	6141.5	6484.7
25°	4606.7	5055.4	5609.3	6155.8	6571.0	7226.1	7956.4	8530.5	9302.2	9786.5	10139.3
22.5°	6211.9	7004.4	7775.4	8536.8	9375.0	10277.1	11138.7	12133.6	13072.9	13766.4	14290.7
20°	7971.6	9068.4	10158.9	11204.1	12249.8	13456.2	14522.9	15718.6	16872.4	17875.5	18566.2
17.5°	10146.9	11293.7	12686.3	14084.9	15439.6	16933.5	18509.2	19849.9	21467.9	22804.1	23809.2
15°	12516.1	13952.3	15472.2	17221.5	19051.0	20899.4	22810.6	24781.7	26623.5	28331.9	29611.6
12.5°	14962.6	16750.2	18602.2	20539.2	22660.5	24960.8	27362.4	29708.5	31985.9	33863.7	35619.4
10°	17312.6	19546.8	21695.7	23965.4	26408.2	28981.6	31794.0	34588.6	37235.4	39548.6	41437.9
7.5°	19371.8	21797.3	24276.5	27059.6	29959.1	32843.0	35890.0	39024.7	42037.3	44703.6	46912.4
5°	21307.4	23837.9	26349.6	29343.8	32543.0	35852.2	39302.1	42823.5	46075.9	49090.3	51536.6
2.5°	22816.6	25478.3	28060.9	31343.9	34719.9	38090.1	41607.8	45457.9	49085.9	52362.7	54762.9
0°	23738.1	26365.7	28861.1	32384.1	35856.7	39394.4	43273.8	47371.4	51192.2	54331.4	56669.5
-2.5°	23419.4	25983.1	28690.2	32150.8	35822.0	39360.3	43284.8	47420.0	51215.9	54405.9	56689.2
-5°	22981.9	25495.1	28235.0	31697.7	35280.6	38814.8	42684.0	46750.7	50478.7	53616.9	55779.4
-7.5°	22443.8	24869.7	27541.4	30899.6	34462.5	38000.9	41767.4	45615.1	49180.5	52299.9	54334.8
-10°	21807.8	24107.5	26750.6	29980.5	33516.4	36927.2	40506.0	44316.9	47895.1	50731.9	52916.0
-12.5°	21147.9	23388.4	25842.9	28898.8	32283.9	35454.9	38871.8	42541.6	45694.0	48595.2	50514.4
-15°	20392.3	22540.9	24842.5	27659.2	30727.1	33695.3	36663.3	39899.5	42776.0	45355.7	47395.1
-17.5°	19517.7	21553.5	23573.4	26106.2	29043.5	31694.6	34293.3	37111.3	39668.4	42036.9	43802.5
-20°	18309.8	19985.0	21925.9	24348.9	26893.4	29129.5	31500.7	33867.9	36144.4	38149.3	39644.4



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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°	16579.5	18209.6	20007.6	21989.4	24118.3	26172.2	28201.8	30138.7	31990.9	33659.4	34862.8
-25°	14737.8	16226.7	17849.7	19497.0	21196.9	23036.8	24817.0	26415.8	27938.8	29228.0	30219.2
-27.5°	12907.9	14315.8	15734.9	17064.3	18423.9	19960.8	21518.9	22857.4	24147.5	25157.2	25930.0
-30°	11273.3	12778.5	14028.1	14932.6	16250.2	17598.6	18608.7	19826.6	20842.9	21487.2	22317.7
-32.5°	10372.6	11507.9	12640.8	13570.8	14617.8	15800.8	16757.4	17752.3	18610.0	19302.6	19824.8
-35°	9551.0	10548.5	11505.8	12462.6	13397.4	14347.7	15229.4	16069.2	16830.0	17442.4	17926.3
-37.5°	8812.9	9676.3	10542.8	11368.2	12208.0	13002.3	13759.2	14483.6	15123.1	15675.1	16131.2
-40°	8067.7	8839.0	9601.1	10347.4	11081.8	11730.1	12381.0	12979.5	13519.3	14007.8	14406.5
-42.5°	7319.4	8007.7	8675.1	9352.2	10003.9	10566.6	11103.9	11598.7	12061.6	12477.9	12821.9
-45°	6583.7	7191.5	7779.7	8380.8	8930.3	9443.2	9911.6	10328.2	10725.9	11076.8	11365.9
-47.5°	5920.7	6415.7	6940.5	7453.7	7930.6	8392.6	8802.2	9168.9	9517.8	9814.9	10050.9
-50°	5304.4	5756.4	6198.8	6614.6	7060.2	7465.2	7811.9	8149.9	8467.1	8732.2	8931.3
-52.5°	4725.0	5142.1	5539.9	5927.8	6314.5	6674.9	7007.4	7316.4	7593.6	7836.5	8009.0
-55°	4266.4	4607.2	4929.5	5302.6	5657.6	5977.9	6275.7	6575.7	6842.9	7078.9	7223.0
-57.5°	3832.1	4139.7	4446.5	4769.1	5081.2	5382.2	5664.9	5927.8	6173.9	6394.8	6518.9
-60°	3444.6	3692.8	3984.6	4282.2	4565.2	4833.8	5099.3	5345.8	5574.6	5766.8	5876.5
-62.5°	3120.0	3355.8	3602.6	3851.2	4096.2	4346.1	4587.0	4816.1	5033.2	5208.3	5314.9
-65°	2833.7	3047.2	3263.0	3483.2	3706.4	3926.4	4131.5	4332.8	4529.1	4679.1	4775.2
-67.5°	2564.3	2748.0	2929.3	3116.7	3309.0	3498.9	3679.7	3858.0	4032.7	4153.8	4229.1
-70°	2269.0	2431.2	2587.3	2745.0	2902.0	3056.4	3205.9	3355.0	3502.3	3599.5	3663.9
-72.5°	1941.7	2077.2	2203.9	2329.9	2458.2	2585.1	2708.0	2827.5	2942.9	3018.2	3073.8
-75°	1588.2	1691.5	1790.0	1889.4	1988.9	2091.9	2193.4	2290.8	2383.5	2439.8	2483.1
-77.5°	1228.4	1301.5	1370.9	1440.8	1510.7	1590.5	1671.4	1749.9	1825.3	1865.2	1895.0
-80°	867.4	918.7	966.1	1011.4	1054.5	1105.4	1156.7	1206.3	1254.0	1276.8	1293.6
-82.5°	543.4	573.5	601.7	628.4	653.5	680.8	706.7	730.8	753.0	764.0	772.2
-85°	282.7	295.8	307.9	319.0	329.3	341.8	353.7	364.8	375.0	378.3	380.5
-87.5°	105.5	109.4	113.2	116.9	120.4	125.1	129.8	134.3	138.7	139.9	140.9
-90°	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7	4.2	4.2	4.2



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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°	31.0	31.5	31.5	31.5	31.5	31.5	31.0	30.5	29.9	29.4	28.9
87.5°	14.6	12.6	11.5	10.5	11.5	12.6	14.6	16.6	18.6	20.4	17.7
85°	26.6	23.0	22.0	21.0	22.0	23.0	26.6	30.0	33.4	36.5	33.0
82.5°	28.3	27.3	27.3	27.3	27.3	27.3	28.3	29.5	30.8	32.2	33.8
80°	34.5	33.5	33.6	33.6	33.6	33.5	34.5	35.3	36.2	37.2	40.7
77.5°	38.6	37.7	37.7	37.7	37.7	37.7	38.6	39.6	40.5	41.9	47.2
75°	36.9	35.7	35.6	35.6	35.6	35.7	36.9	38.0	39.2	41.3	47.0
72.5°	32.4	31.7	31.5	31.5	31.5	31.7	32.4	33.2	34.2	36.2	41.2
70°	28.2	27.5	27.3	27.3	27.3	27.5	28.2	29.0	29.9	31.4	34.4
67.5°	25.4	25.3	25.2	25.2	25.2	25.3	25.4	25.7	26.1	27.1	29.0
65°	21.4	21.2	21.0	21.0	21.0	21.2	21.4	21.7	22.1	23.1	24.8
62.5°	19.8	19.1	18.0	16.8	18.0	19.1	19.8	20.4	20.9	21.5	22.5
60°	20.3	19.2	18.9	18.9	18.9	19.2	20.3	21.4	22.2	22.6	22.9
57.5°	21.7	21.1	21.0	21.0	21.0	21.1	21.7	22.3	23.0	24.5	25.4
55°	27.3	27.1	27.2	27.3	27.2	27.1	27.3	27.3	27.1	28.3	29.5
52.5°	37.9	37.5	37.5	37.7	37.5	37.5	37.9	37.7	37.0	36.5	35.7
50°	52.0	52.0	51.4	50.3	51.4	52.0	52.0	51.5	51.1	50.5	47.8
47.5°	87.4	86.1	84.7	83.9	84.7	86.1	87.4	86.2	84.2	80.3	71.4
45°	164.3	163.0	160.7	159.4	160.7	163.0	164.3	160.5	157.3	147.9	130.7
42.5°	294.2	291.8	286.3	283.1	286.3	291.8	294.2	287.4	283.4	268.0	246.3
40°	493.1	495.7	491.4	488.6	491.4	495.7	493.1	479.3	467.1	443.1	421.3
37.5°	757.8	768.9	767.5	763.3	767.5	768.9	757.8	734.8	705.9	660.8	631.2
35°	1079.2	1091.5	1085.2	1084.2	1085.2	1091.5	1079.2	1059.1	1015.5	936.6	915.8
32.5°	1597.9	1579.8	1512.2	1530.8	1512.2	1579.8	1597.9	1678.3	1571.3	1487.1	1513.8
30°	3453.1	3519.4	3330.2	3179.1	3330.2	3519.4	3453.1	3428.1	3057.4	3081.0	2890.0
27.5°	6518.6	6661.8	6635.1	6790.1	6635.1	6661.8	6518.6	6484.7	6141.5	5855.4	5310.2
25°	10277.8	10372.7	10378.8	10099.2	10378.8	10372.7	10277.8	10139.3	9786.5	9302.2	8530.5
22.5°	14484.9	14576.6	14743.7	14744.1	14743.7	14576.6	14484.9	14290.7	13766.4	13072.9	12133.6
20°	19046.5	19063.2	19382.6	19405.7	19382.6	19063.2	19046.5	18566.2	17875.5	16872.4	15718.6
17.5°	24516.7	24782.7	25214.4	24962.8	25214.4	24782.7	24516.7	23809.2	22804.1	21467.9	19849.9
15°	30822.6	31416.9	31878.5	31671.1	31878.5	31416.9	30822.6	29611.6	28331.9	26623.5	24781.7
12.5°	37015.4	37952.3	38398.4	38289.3	38398.4	37952.3	37015.4	35619.4	33863.7	31985.9	29708.5
10°	42910.1	44228.8	44702.5	44869.7	44702.5	44228.8	42910.1	41437.9	39548.6	37235.4	34588.6
7.5°	48561.2	49769.5	50487.7	50187.7	50487.7	49769.5	48561.2	46912.4	44703.6	42037.3	39024.7
5°	53096.7	54117.2	54697.4	54490.7	54697.4	54117.2	53096.7	51536.6	49090.3	46075.9	42823.5
2.5°	56308.7	57261.6	57764.5	57511.5	57764.5	57261.6	56308.7	54762.9	52362.7	49085.9	45457.9
0°	58143.7	59114.6	59684.0	59724.9	59684.0	59114.6	58143.7	56669.5	54331.4	51192.2	47371.4
-2.5°	58072.1	58757.9	59158.1	58954.2	59158.1	58757.9	58072.1	56689.2	54405.9	51215.9	47420.0
-5°	56856.3	57435.5	57643.3	57554.5	57643.3	57435.5	56856.3	55779.4	53616.9	50478.7	46750.7
-7.5°	55356.5	55783.5	55926.4	55820.3	55926.4	55783.5	55356.5	54334.8	52299.9	49180.5	45615.1
-10°	53905.4	54332.2	54404.6	54344.0	54404.6	54332.2	53905.4	52916.0	50731.9	47895.1	44316.9
-12.5°	51792.8	52255.3	52270.4	52129.5	52270.4	52255.3	51792.8	50514.4	48595.2	45694.0	42541.6
-15°	48497.8	48876.1	48937.1	48858.2	48937.1	48876.1	48497.8	47395.1	45355.7	42776.0	39899.5
-17.5°	44835.4	45085.8	45357.2	45660.2	45357.2	45085.8	44835.4	43802.5	42036.9	39668.4	37111.3
-20°	40438.1	40737.7	41058.0	41397.0	41058.0	40737.7	40438.1	39644.4	38149.3	36144.4	33867.9



REPORT NUMBER: P731711 (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°	35496.1	35832.8	36161.2	36332.8	36161.2	35832.8	35496.1	34862.8	33659.4	31990.9	30138.7
-25°	30715.6	31125.6	31384.9	31541.1	31384.9	31125.6	30715.6	30219.2	29228.0	27938.8	26415.8
-27.5°	26333.1	26819.1	27058.4	27160.4	27058.4	26819.1	26333.1	25930.0	25157.2	24147.5	22857.4
-30°	22642.0	22940.4	22981.7	23136.3	22981.7	22940.4	22642.0	22317.7	21487.2	20842.9	19826.6
-32.5°	20208.5	20540.0	20741.5	20911.4	20741.5	20540.0	20208.5	19824.8	19302.6	18610.0	17752.3
-35°	18302.0	18602.3	18799.9	18881.5	18799.9	18602.3	18302.0	17926.3	17442.4	16830.0	16069.2
-37.5°	16474.6	16701.5	16839.6	16950.1	16839.6	16701.5	16474.6	16131.2	15675.1	15123.1	14483.6
-40°	14712.6	14937.7	15074.4	15111.0	15074.4	14937.7	14712.6	14406.5	14007.8	13519.3	12979.5
-42.5°	13068.2	13241.5	13360.4	13441.8	13360.4	13241.5	13068.2	12821.9	12477.9	12061.6	11598.7
-45°	11579.1	11731.8	11837.7	11902.6	11837.7	11731.8	11579.1	11365.9	11076.8	10725.9	10328.2
-47.5°	10224.6	10347.5	10431.8	10480.8	10431.8	10347.5	10224.6	10050.9	9814.9	9517.8	9168.9
-50°	9079.9	9189.7	9267.6	9314.9	9267.6	9189.7	9079.9	8931.3	8732.2	8467.1	8149.9
-52.5°	8143.8	8250.5	8328.9	8379.6	8328.9	8250.5	8143.8	8009.0	7836.5	7593.6	7316.4
-55°	7342.7	7440.7	7511.7	7557.6	7511.7	7440.7	7342.7	7223.0	7078.9	6842.9	6575.7
-57.5°	6624.3	6711.0	6771.1	6809.0	6771.1	6711.0	6624.3	6518.9	6394.8	6173.9	5927.8
-60°	5970.1	6048.2	6103.5	6142.1	6103.5	6048.2	5970.1	5876.5	5766.8	5574.6	5345.8
-62.5°	5409.3	5491.2	5535.2	5559.2	5535.2	5491.2	5409.3	5314.9	5208.3	5033.2	4816.1
-65°	4863.4	4942.6	4985.3	5009.8	4985.3	4942.6	4863.4	4775.2	4679.1	4529.1	4332.8
-67.5°	4295.5	4352.6	4396.0	4428.9	4396.0	4352.6	4295.5	4229.1	4153.8	4032.7	3858.0
-70°	3719.2	3765.3	3766.8	3753.6	3766.8	3765.3	3719.2	3663.9	3599.5	3502.3	3355.0
-72.5°	3122.0	3162.5	3173.1	3172.8	3173.1	3162.5	3122.0	3073.8	3018.2	2942.9	2827.5
-75°	2520.4	2551.4	2572.2	2585.6	2572.2	2551.4	2520.4	2483.1	2439.8	2383.5	2290.8
-77.5°	1919.3	1937.9	1955.3	1967.0	1955.3	1937.9	1919.3	1895.0	1865.2	1825.3	1749.9
-80°	1306.3	1315.0	1317.0	1314.8	1317.0	1315.0	1306.3	1293.6	1276.8	1254.0	1206.3
-82.5°	778.2	781.8	778.0	771.7	778.0	781.8	778.2	772.2	764.0	753.0	730.8
-85°	381.7	382.0	381.3	379.6	381.3	382.0	381.7	380.5	378.3	375.0	364.8
-87.5°	141.6	142.2	144.6	146.8	144.6	142.2	141.6	140.9	139.9	138.7	134.3
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	28.4	27.8	27.3	26.3	25.2	24.2	23.1	22.1	21.0	20.0	18.9
87.5°	15.1	12.5	10.1	10.5	10.9	11.2	11.5	10.9	10.3	9.8	9.3
85°	29.5	25.9	22.5	22.8	23.1	23.3	23.3	22.9	22.2	21.2	20.1
82.5°	35.0	35.6	36.0	38.6	40.7	42.1	43.0	43.1	42.5	41.2	38.8
80°	44.0	46.9	49.9	55.5	60.4	64.4	67.5	69.6	70.9	71.3	69.3
77.5°	52.1	56.8	62.0	70.4	78.2	85.4	91.5	95.3	97.3	98.5	95.9
75°	52.9	58.8	66.7	78.5	89.7	100.3	108.0	113.1	117.4	120.9	118.2
72.5°	46.5	52.3	61.8	76.3	91.3	104.4	115.7	125.3	133.1	139.0	134.1
70°	37.9	42.2	51.1	64.6	79.0	93.9	109.9	126.6	143.7	154.7	145.9
67.5°	31.1	33.4	40.2	50.6	63.2	77.4	93.7	112.6	130.9	148.7	145.4
65°	26.6	28.4	33.1	40.1	49.1	60.0	72.6	88.3	107.7	127.8	129.6
62.5°	23.6	25.0	28.2	32.6	38.2	45.3	55.0	68.2	83.3	95.8	102.3
60°	23.1	23.5	25.8	28.5	31.5	35.9	44.0	53.1	63.2	73.9	79.5
57.5°	25.5	25.9	27.5	28.7	29.4	32.7	37.7	43.6	52.6	59.4	63.5
55°	30.8	32.7	34.0	34.0	33.4	34.8	36.0	39.2	45.9	52.2	58.0
52.5°	35.2	38.8	42.0	44.1	44.3	42.8	40.1	41.1	44.9	51.2	56.5
50°	45.8	50.1	51.9	52.2	56.8	56.9	53.6	49.3	55.4	58.4	58.6
47.5°	72.8	77.4	73.0	71.6	79.8	77.6	74.4	74.0	81.3	75.4	72.9
45°	136.1	136.0	124.4	128.0	125.5	121.7	108.4	119.8	121.9	115.2	95.1
42.5°	247.1	236.1	221.7	225.9	220.8	203.1	180.7	186.5	182.7	168.1	156.2
40°	403.3	375.5	362.3	358.2	348.8	323.4	302.3	272.0	262.0	239.8	236.2
37.5°	595.1	552.8	540.5	516.1	496.6	491.4	458.4	403.1	354.3	375.4	348.6
35°	832.3	793.9	786.8	724.9	680.2	774.4	687.0	577.2	552.0	603.7	515.4
32.5°	1214.7	1382.9	1231.9	1098.8	1250.2	1271.6	1108.8	847.3	976.2	973.6	813.4
30°	2592.0	2624.1	2423.7	2054.4	2275.7	2223.1	1750.0	1687.2	1650.4	1477.0	1207.6
27.5°	5007.0	4486.7	4191.2	3991.6	3673.7	3501.4	3121.9	2729.9	2510.5	2193.1	1769.2
25°	7956.4	7226.1	6571.0	6155.8	5609.3	5055.4	4606.7	4053.3	3578.3	3069.6	2475.0
22.5°	11138.7	10277.1	9375.0	8536.8	7775.4	7004.4	6211.9	5421.9	4748.9	4087.3	3330.8
20°	14522.9	13456.2	12249.8	11204.1	10158.9	9068.4	7971.6	7018.1	6144.8	5209.6	4251.9
17.5°	18509.2	16933.5	15439.6	14084.9	12686.3	11293.7	10146.9	8947.7	7675.8	6391.4	5208.5
15°	22810.6	20899.4	19051.0	17221.5	15472.2	13952.3	12516.1	10990.7	9349.7	7702.2	6295.7
12.5°	27362.4	24960.8	22660.5	20539.2	18602.2	16750.2	14962.6	13128.9	11139.1	9185.4	7570.5
10°	31794.0	28981.6	26408.2	23965.4	21695.7	19546.8	17312.6	15093.9	12843.1	10647.7	8801.2
7.5°	35890.0	32843.0	29959.1	27059.6	24276.5	21797.3	19371.8	16935.1	14473.2	12032.6	9979.5
5°	39302.1	35852.2	32543.0	29343.8	26349.6	23837.9	21307.4	18677.9	16008.4	13329.3	11094.3
2.5°	41607.8	38090.1	34719.9	31343.9	28060.9	25478.3	22816.6	20001.7	17080.3	14185.1	11818.2
0°	43273.8	39394.4	35856.7	32384.1	28861.1	26365.7	23738.1	20921.8	17847.6	14861.5	12462.5
-2.5°	43284.8	39360.3	35822.0	32150.8	28690.2	25983.1	23419.4	20692.4	17850.4	14982.3	12609.5
-5°	42684.0	38814.8	35280.6	31697.7	28235.0	25495.1	22981.9	20375.6	17722.0	14995.7	12668.8
-7.5°	41767.4	38000.9	34462.5	30899.6	27541.4	24869.7	22443.8	20001.4	17488.7	14916.6	12647.8
-10°	40506.0	36927.2	33516.4	29980.5	26750.6	24107.5	21807.8	19537.6	17157.6	14731.0	12546.5
-12.5°	38871.8	35454.9	32283.9	28898.8	25842.9	23388.4	21147.9	18989.8	16747.4	14442.7	12368.8
-15°	36663.3	33695.3	30727.1	27659.2	24842.5	22540.9	20392.3	18288.4	16075.9	13947.8	12118.9
-17.5°	34293.3	31694.6	29043.5	26106.2	23573.4	21553.5	19517.7	17410.8	15225.2	13138.0	11460.0
-20°	31500.7	29129.5	26893.4	24348.9	21925.9	19985.0	18309.8	16391.4	14203.4	12260.4	10669.3



REPORT NUMBER: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	28201.8	26172.2	24118.3	21989.4	20007.6	18209.6	16579.5	14924.0	13006.7	11248.4	9803.4
-25°	24817.0	23036.8	21196.9	19497.0	17849.7	16226.7	14737.8	13216.8	11699.8	10195.9	8881.4
-27.5°	21518.9	19960.8	18423.9	17064.3	15734.9	14315.8	12907.9	11608.2	10437.4	9232.8	7995.1
-30°	18608.7	17598.6	16250.2	14932.6	14028.1	12778.5	11273.3	10344.7	9412.7	8373.3	7272.1
-32.5°	16757.4	15800.8	14617.8	13570.8	12640.8	11507.9	10372.6	9280.9	8533.3	7639.5	6719.2
-35°	15229.4	14347.7	13397.4	12462.6	11505.8	10548.5	9551.0	8636.9	7784.9	6976.8	6198.0
-37.5°	13759.2	13002.3	12208.0	11368.2	10542.8	9676.3	8812.9	7971.9	7137.9	6415.3	5724.8
-40°	12381.0	11730.1	11081.8	10347.4	9601.1	8839.0	8067.7	7288.5	6566.7	5882.3	5263.5
-42.5°	11103.9	10566.6	10003.9	9352.2	8675.1	8007.7	7319.4	6636.8	5992.0	5390.9	4822.1
-45°	9911.6	9443.2	8930.3	8380.8	7779.7	7191.5	6583.7	6004.7	5443.5	4908.4	4374.6
-47.5°	8802.2	8392.6	7930.6	7453.7	6940.5	6415.7	5920.7	5402.1	4915.9	4425.3	3964.3
-50°	7811.9	7465.2	7060.2	6614.6	6198.8	5756.4	5304.4	4836.8	4410.5	3998.0	3575.0
-52.5°	7007.4	6674.9	6314.5	5927.8	5539.9	5142.1	4725.0	4351.1	3971.5	3604.2	3231.5
-55°	6275.7	5977.9	5657.6	5302.6	4929.5	4607.2	4266.4	3919.0	3579.3	3237.4	2931.0
-57.5°	5664.9	5382.2	5081.2	4769.1	4446.5	4139.7	3832.1	3516.0	3221.3	2937.6	2653.0
-60°	5099.3	4833.8	4565.2	4282.2	3984.6	3692.8	3444.6	3182.7	2907.1	2665.8	2423.5
-62.5°	4587.0	4346.1	4096.2	3851.2	3602.6	3355.8	3120.0	2889.2	2655.4	2425.6	2219.1
-65°	4131.5	3926.4	3706.4	3483.2	3263.0	3047.2	2833.7	2625.4	2426.7	2233.9	2033.1
-67.5°	3679.7	3498.9	3309.0	3116.7	2929.3	2748.0	2564.3	2383.3	2201.3	2023.8	1836.5
-70°	3205.9	3056.4	2902.0	2745.0	2587.3	2431.2	2269.0	2105.5	1947.1	1790.2	1624.4
-72.5°	2708.0	2585.1	2458.2	2329.9	2203.9	2077.2	1941.7	1800.1	1663.2	1531.7	1396.0
-75°	2193.4	2091.9	1988.9	1889.4	1790.0	1691.5	1588.2	1475.6	1365.6	1258.8	1149.8
-77.5°	1671.4	1590.5	1510.7	1440.8	1370.9	1301.5	1228.4	1142.8	1058.5	975.3	890.6
-80°	1156.7	1105.4	1054.5	1011.4	966.1	918.7	867.4	805.5	744.2	687.3	633.1
-82.5°	706.7	680.8	653.5	628.4	601.7	573.5	543.4	507.8	472.2	436.8	401.0
-85°	353.7	341.8	329.3	319.0	307.9	295.8	282.7	266.8	249.9	232.3	213.7
-87.5°	129.8	125.1	120.4	116.9	113.2	109.4	105.5	99.7	94.0	88.3	82.6
-90°	5.3	5.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3





REPORT NUMBER: P731711 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	18.4	17.9	17.3	16.8	16.3	15.8	15.2	14.7	14.2	13.7	13.1
87.5°	11.1	12.8	14.3	15.6	14.9	14.2	13.5	12.8	12.8	12.7	12.5
85°	20.6	21.2	22.1	23.1	21.7	19.9	18.6	17.3	17.3	17.0	16.6
82.5°	35.1	33.3	32.2	31.6	31.1	29.9	28.1	25.5	22.8	21.4	20.7
80°	61.8	55.0	49.0	44.1	41.2	40.0	38.5	35.7	29.8	25.8	23.6
77.5°	85.8	76.5	68.1	59.8	52.7	47.7	45.0	43.4	36.6	30.0	25.6
75°	107.2	95.2	83.9	73.2	63.0	54.8	48.9	44.7	39.1	33.5	27.4
72.5°	121.3	109.1	97.5	85.1	71.8	60.9	52.3	45.9	40.2	34.5	28.8
70°	132.1	120.1	107.8	93.6	79.4	66.1	55.3	47.7	41.2	35.4	29.5
67.5°	139.5	125.0	112.7	100.6	86.0	71.5	57.9	49.6	42.9	36.2	30.2
65°	125.1	120.3	114.3	101.6	89.4	76.4	61.8	52.0	44.4	37.5	30.8
62.5°	106.5	107.2	103.5	99.5	89.7	77.5	65.7	55.8	46.2	38.8	31.8
60°	83.4	88.4	91.7	90.2	86.0	77.2	67.1	59.3	49.3	39.9	32.8
57.5°	69.0	70.9	76.1	80.0	78.7	73.8	67.9	61.1	52.1	42.1	33.8
55°	59.7	62.8	64.8	67.8	70.7	68.3	67.4	62.1	54.4	44.3	35.2
52.5°	59.5	60.5	60.9	60.0	61.4	63.5	64.5	63.2	55.5	46.4	37.6
50°	61.9	67.3	63.8	59.6	54.8	58.2	62.0	61.4	56.7	48.0	40.1
47.5°	73.1	80.7	76.2	64.0	56.8	53.9	58.8	59.6	57.8	49.0	42.6
45°	103.2	102.1	95.2	80.4	62.4	57.7	55.9	58.0	56.5	51.6	45.1
42.5°	144.2	138.4	123.7	99.8	87.2	65.7	53.8	56.3	55.3	54.6	47.7
40°	216.3	185.9	160.8	146.0	124.7	76.3	61.6	55.1	54.8	57.5	50.6
37.5°	300.8	255.3	211.6	212.6	175.7	118.8	72.0	54.5	58.1	60.1	53.6
35°	424.1	343.8	316.7	303.2	249.4	168.7	83.5	58.5	62.7	63.3	56.9
32.5°	565.8	516.1	497.8	417.8	335.5	225.9	118.1	75.2	68.7	67.3	60.4
30°	900.1	820.7	735.7	550.6	438.2	306.4	174.6	92.3	75.9	71.9	64.0
27.5°	1439.0	1181.8	1028.5	766.1	563.7	398.5	245.5	109.7	84.2	77.5	67.6
25°	2020.6	1659.5	1378.0	1038.7	701.0	540.8	325.1	129.2	97.2	84.1	71.5
22.5°	2677.4	2176.0	1765.3	1344.1	918.7	706.0	427.5	191.6	112.0	91.4	75.7
20°	3343.3	2700.0	2205.6	1720.8	1202.7	893.7	556.3	257.7	126.7	99.2	80.1
17.5°	4039.8	3366.1	2807.2	2151.2	1520.8	1091.4	695.7	326.1	141.2	107.5	84.7
15°	5105.1	4214.1	3453.0	2620.7	1836.1	1296.3	842.5	395.7	155.3	116.0	94.0
12.5°	6212.0	5077.6	4126.6	3117.7	2145.5	1504.9	993.3	464.9	169.1	133.6	109.4
10°	7291.1	5945.2	4814.9	3629.0	2445.5	1713.7	1144.3	556.1	210.7	158.8	125.0
7.5°	8332.7	6804.2	5503.7	4140.6	2756.7	1988.1	1417.9	697.8	257.7	184.5	140.8
5°	9269.3	7558.0	6154.1	4677.2	3181.2	2326.0	1710.2	838.9	305.3	210.1	156.4
2.5°	9899.2	8132.9	6752.1	5178.3	3586.2	2651.1	1994.0	974.7	352.6	235.4	171.8
0°	10457.8	8652.3	7301.8	5632.6	3967.5	2961.0	2260.6	1100.9	398.4	260.0	186.6
-2.5°	10599.1	8780.8	7471.5	5910.4	4288.5	3244.3	2501.3	1295.7	547.0	351.9	245.0
-5°	10666.2	8866.0	7598.3	6142.5	4579.3	3508.2	2713.1	1473.8	690.2	441.3	301.8
-7.5°	10680.4	8934.3	7665.8	6309.4	4838.1	3751.3	2893.4	1632.5	825.4	526.7	356.3
-10°	10631.6	8961.8	7647.3	6266.0	4854.3	3851.5	3013.8	1769.5	949.9	606.8	407.7
-12.5°	10517.8	8926.2	7583.5	6169.5	4796.6	3814.4	2936.0	1821.4	1056.9	680.3	455.2
-15°	10342.4	8823.5	7474.5	6018.1	4702.5	3752.9	2847.9	1829.5	1122.3	744.8	498.0
-17.5°	10017.7	8650.0	7321.0	5810.5	4570.9	3666.0	2753.9	1826.5	1178.2	800.4	538.8
-20°	9328.5	8209.0	7110.1	5545.6	4400.9	3552.8	2658.4	1813.8	1224.3	848.4	576.8



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	8596.9	7585.3	6548.4	5312.9	4221.6	3412.5	2565.1	1792.7	1260.0	888.4	609.4
-25°	7811.8	6951.7	5958.0	4932.4	4047.9	3267.2	2494.9	1764.3	1285.1	919.9	635.9
-27.5°	7076.8	6312.9	5403.1	4556.9	3802.1	3138.3	2440.4	1782.2	1305.8	942.4	656.2
-30°	6375.9	5713.1	4958.6	4210.7	3553.1	2967.7	2382.3	1789.3	1327.6	961.1	669.8
-32.5°	5870.1	5176.5	4554.9	3927.7	3335.0	2787.4	2270.4	1783.1	1337.3	974.3	680.4
-35°	5469.8	4779.0	4178.0	3648.1	3125.0	2618.3	2137.7	1763.3	1334.5	978.3	685.5
-37.5°	5056.1	4438.1	3878.3	3389.0	2908.9	2442.1	2026.4	1677.2	1319.1	972.9	684.0
-40°	4670.3	4102.3	3598.7	3148.4	2703.5	2259.6	1906.7	1591.0	1300.5	958.1	675.7
-42.5°	4270.7	3776.5	3325.3	2902.9	2498.3	2118.2	1782.1	1499.2	1237.9	939.0	660.5
-45°	3894.1	3447.6	3048.5	2672.8	2295.9	1969.4	1674.8	1404.6	1165.9	913.5	641.8
-47.5°	3511.7	3137.9	2784.2	2439.0	2124.7	1821.6	1562.0	1320.3	1090.4	878.4	621.0
-50°	3170.3	2842.5	2532.5	2236.5	1946.8	1692.4	1449.4	1232.1	1021.3	817.0	593.9
-52.5°	2879.4	2575.5	2306.5	2042.7	1796.8	1558.0	1348.5	1141.6	949.2	759.3	560.8
-55°	2617.4	2337.6	2098.4	1872.0	1650.4	1440.3	1244.0	1058.6	874.2	701.6	522.9
-57.5°	2392.2	2122.8	1916.1	1712.7	1517.3	1326.1	1145.1	972.8	803.8	641.1	488.3
-60°	2180.8	1952.1	1744.9	1568.6	1391.4	1216.0	1048.4	887.2	732.7	580.0	445.0
-62.5°	2005.2	1787.3	1595.1	1431.3	1270.5	1110.8	950.5	804.8	658.8	523.2	397.2
-65°	1830.8	1634.4	1448.1	1302.7	1154.1	1003.3	857.1	719.6	587.3	463.4	350.3
-67.5°	1652.2	1476.8	1315.2	1175.4	1032.4	893.4	760.1	633.7	513.9	400.9	309.0
-70°	1463.1	1313.1	1169.0	1033.5	903.8	778.4	658.3	545.2	437.5	347.2	265.7
-72.5°	1257.4	1126.0	1002.5	884.6	767.2	656.3	552.2	455.9	370.0	291.4	220.6
-75°	1036.7	927.0	822.6	722.2	623.4	530.6	449.0	373.0	300.2	233.7	179.7
-77.5°	800.4	714.5	633.5	558.3	482.6	412.2	347.6	287.7	231.5	183.3	139.6
-80°	572.5	513.2	455.4	398.8	342.7	291.3	250.7	211.4	170.2	132.5	98.5
-82.5°	358.3	322.2	288.9	256.8	224.9	194.3	165.1	137.2	107.7	80.8	65.1
-85°	192.8	172.6	153.0	134.2	114.7	96.3	87.2	78.3	67.3	57.2	48.0
-87.5°	78.5	74.4	70.3	66.1	61.0	56.1	51.3	46.6	40.8	35.5	30.6
-90°	6.8	7.4	7.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	12.6	12.1	11.6	11.0	10.5	9.5	8.4
87.5°	12.2	11.2	10.4	9.7	9.1	8.7	8.4
85°	16.0	14.1	12.4	11.0	9.9	9.0	8.4
82.5°	19.7	16.9	14.4	12.3	10.6	9.4	8.4
80°	23.0	19.6	16.3	13.5	11.3	9.7	8.4
77.5°	23.4	21.4	18.2	14.8	12.0	10.0	8.4
75°	23.8	21.5	19.7	16.0	12.7	10.3	8.4
72.5°	24.1	21.6	19.6	17.2	13.4	10.6	8.4
70°	24.4	21.6	19.5	18.1	14.1	10.9	8.4
67.5°	25.3	21.5	19.3	17.8	14.7	11.2	8.4
65°	26.1	21.9	19.1	17.6	15.3	11.5	8.4
62.5°	26.9	22.6	18.9	17.3	15.9	11.7	8.4
60°	27.7	23.3	18.6	17.0	16.5	12.0	8.4
57.5°	28.9	24.0	19.1	16.7	16.4	12.3	8.4
55°	30.2	24.7	19.7	16.4	16.3	12.5	8.4
52.5°	31.6	25.4	20.2	16.0	16.2	12.7	8.4
50°	32.9	26.6	20.8	15.6	16.1	13.0	8.4
47.5°	34.4	27.7	21.3	15.4	16.1	13.2	8.4
45°	36.5	28.9	21.7	15.8	16.1	13.4	8.4
42.5°	38.6	30.0	22.2	16.1	16.1	13.6	8.4
40°	40.7	31.1	22.8	16.8	16.1	13.7	8.4
37.5°	42.8	32.2	23.6	17.6	16.2	13.9	8.4
35°	44.7	33.6	24.4	18.5	16.3	14.1	8.4
32.5°	46.9	35.1	25.2	19.5	16.4	14.2	8.4
30°	49.6	36.6	25.9	20.4	16.5	14.3	8.4
27.5°	52.3	37.9	27.9	21.4	16.7	14.4	8.4
25°	55.0	39.2	30.2	22.4	16.8	14.5	8.4
22.5°	57.8	41.6	32.6	23.4	17.0	14.6	8.4
20°	60.4	46.8	35.1	24.4	17.2	14.7	8.4
17.5°	67.5	52.3	37.7	25.4	17.4	14.7	8.4
15°	77.3	58.1	40.2	26.4	17.6	14.7	8.4
12.5°	87.4	63.9	42.8	27.3	17.9	14.8	8.4
10°	97.5	69.8	45.3	28.2	18.1	14.8	8.4
7.5°	107.5	75.7	47.8	29.1	18.3	14.8	8.4
5°	117.4	81.4	50.1	30.0	18.5	14.8	8.4
2.5°	127.1	87.0	52.4	30.8	18.7	14.7	8.4
0°	136.3	92.3	54.5	31.5	18.9	14.7	8.4
-2.5°	171.6	112.1	65.1	36.1	20.3	15.0	8.4
-5°	206.0	131.2	75.4	40.7	21.6	15.2	8.4
-7.5°	238.9	149.6	85.3	45.0	22.9	15.5	8.4
-10°	269.8	166.9	94.7	49.1	24.1	15.7	8.4
-12.5°	298.4	182.9	103.3	52.9	25.3	15.9	8.4
-15°	324.1	197.5	111.3	56.4	26.4	16.1	8.4
-17.5°	346.7	210.4	118.3	59.5	27.4	16.2	8.4
-20°	368.8	221.5	124.4	62.2	28.4	16.4	8.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	392.2	230.6	129.4	64.5	29.2	16.5	8.4
-25°	411.7	242.5	133.2	66.2	29.9	16.6	8.4
-27.5°	426.8	253.8	135.9	67.4	30.5	16.6	8.4
-30°	437.5	262.3	137.7	68.0	31.0	16.7	8.4
-32.5°	443.6	267.9	141.9	68.0	31.3	16.7	8.4
-35°	448.4	270.4	144.4	67.4	31.5	16.6	8.4
-37.5°	450.1	271.0	145.3	66.2	31.6	16.6	8.4
-40°	447.2	271.2	144.4	64.4	31.5	16.5	8.4
-42.5°	439.6	268.5	143.1	62.6	31.2	16.4	8.4
-45°	427.3	263.0	141.7	61.5	30.9	16.2	8.4
-47.5°	410.5	254.6	138.8	59.5	30.3	16.0	8.4
-50°	394.8	243.6	134.4	59.0	29.7	15.8	8.4
-52.5°	376.2	229.7	128.6	58.3	28.8	15.6	8.4
-55°	353.7	218.0	121.4	57.0	27.9	15.3	8.4
-57.5°	327.5	205.0	112.8	55.0	26.8	15.0	8.4
-60°	298.8	189.9	103.1	52.4	25.6	14.7	8.4
-62.5°	274.6	172.9	96.2	49.1	24.7	14.4	8.4
-65°	247.8	154.0	88.2	45.3	23.7	14.0	8.4
-67.5°	218.5	136.1	79.2	40.9	22.6	13.6	8.4
-70°	187.0	119.4	69.3	36.1	21.4	13.2	8.4
-72.5°	159.0	101.4	58.6	33.0	20.2	12.8	8.4
-75°	130.1	82.1	47.1	30.2	18.9	12.4	8.4
-77.5°	99.7	61.9	40.6	27.2	17.6	11.9	8.4
-80°	68.1	49.0	35.1	24.1	16.2	11.4	8.4
-82.5°	52.8	40.0	29.4	21.0	14.8	10.9	8.4
-85°	39.6	30.8	23.5	17.7	13.4	10.5	8.4
-87.5°	26.1	21.5	17.5	14.4	12.0	10.0	8.4
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4

(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

