

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: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-3S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

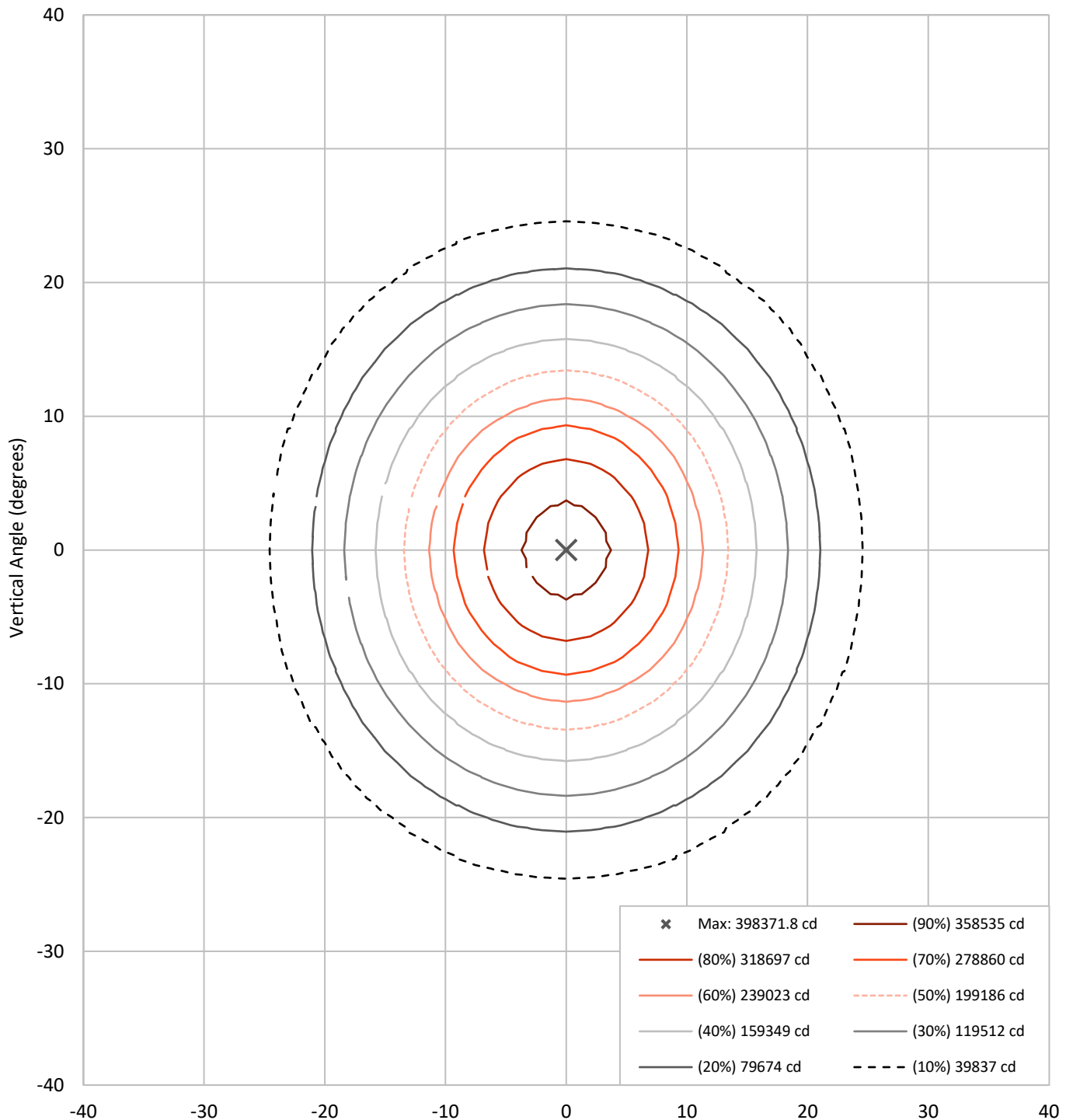
Test Method: LM-79-08  
Report Number: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-70-3S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	107594.9 lumens	Max Intensity:	398371.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	46651.5 lumens	Field Lumens:	89314.3 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
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





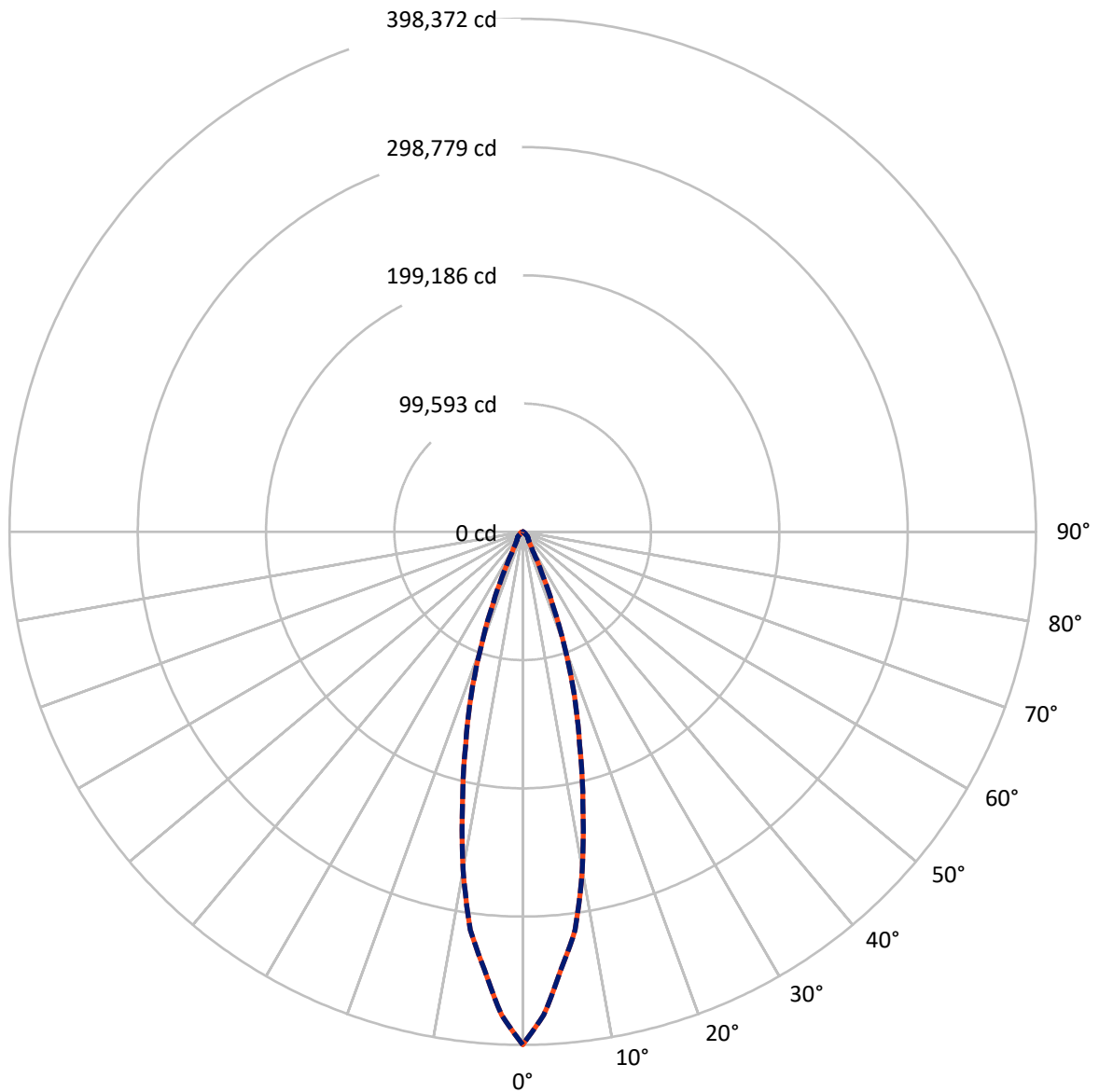
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### Lumen Table

90																
80	0.1	0.9		3.7		9.7		12.9		9.7		3.7		0.9		0.1
70																
60	0.4	0.6	2.4	7.1	14.0	21.3	27.3	30.6	30.6	27.3	21.3	14.0	7.1	2.4	0.6	0.4
50		1.8	8.3	19.6	33.6	48.0	59.5	65.8	65.8	59.5	48.0	33.6	19.6	8.3	1.8	
40	1.2	4.4	16.0	34.1	56.3	88.7	127.0	149.0	149.0	127.0	88.7	56.3	34.1	16.0	4.4	1.2
30		7.5	23.8	48.8	99.4	163.8	210.7	247.5	247.5	210.7	163.8	99.4	48.8	23.8	7.5	
20	2.9	10.3	30.7	69.8	148.3	234.8	542.8	1116.4	1116.4	542.8	234.8	148.3	69.8	30.7	10.3	2.9
10		12.3	35.7	94.0	179.3	512.4	2374.7	4755.3	4755.3	2374.7	512.4	179.3	94.0	35.7	12.3	
0	3.6	13.4	38.3	106.8	204.6	1027.6	4625.2	9121.8	9121.8	4625.2	1027.6	204.6	106.8	38.3	13.4	3.6
-10		13.4	38.3	106.8	204.6	1027.6	4625.2	9121.8	9121.8	4625.2	1027.6	204.6	106.8	38.3	13.4	
-20	2.9	12.3	35.7	94.0	179.3	512.4	2374.7	4755.3	4755.3	2374.7	512.4	179.3	94.0	35.7	12.3	2.9
-30		10.3	30.7	69.8	148.3	234.8	542.8	1116.4	1116.4	542.8	234.8	148.3	69.8	30.7	10.3	
-40	1.2	7.5	23.8	48.8	99.4	163.8	210.7	247.5	247.5	210.7	163.8	99.4	48.8	23.8	7.5	1.2
-50		4.4	16.0	34.1	56.3	88.7	127.0	149.0	149.0	127.0	88.7	56.3	34.1	16.0	4.4	
-60	0.4	1.8	8.3	19.6	33.6	48.0	59.5	65.8	65.8	59.5	48.0	33.6	19.6	8.3	1.8	0.4
-70		0.6	2.4	7.1	14.0	21.3	27.3	30.6	30.6	27.3	21.3	14.0	7.1	2.4	0.6	
-80																
-90	0.1	0.9		3.7		9.7		12.9		9.7		3.7		0.9		0.1

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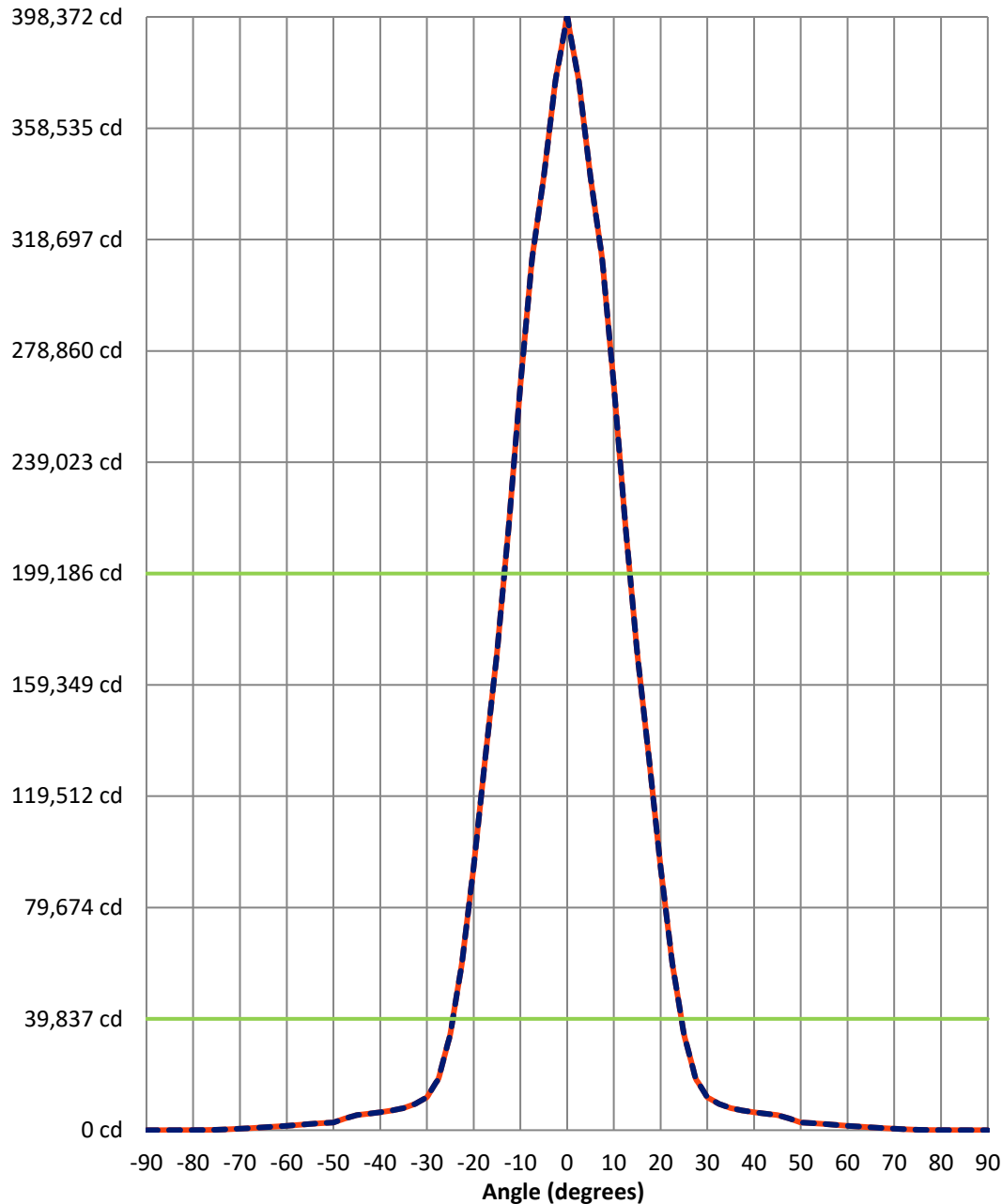
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.9°  
 V Angle: 26.9°  
 Lumens: 46651.5  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 89314.3  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 18280.5  
 Efficiency: 17.0%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.9	1.2	1.6	1.9	2.2	2.5	2.8	3.0
85°	0.0	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.1
82.5°	0.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.3	8.0	8.7
80°	0.0	1.2	2.5	3.7	5.0	6.2	7.4	8.3	9.2	10.1	11.0
77.5°	0.0	1.6	3.1	4.7	6.2	7.6	8.8	9.9	11.0	12.2	13.6
75°	0.0	1.9	3.7	5.6	7.4	8.8	10.2	11.5	13.0	15.2	17.3
72.5°	0.0	2.2	4.3	6.5	8.3	9.9	11.5	13.4	16.0	18.5	21.0
70°	0.0	2.5	4.9	7.3	9.2	11.0	13.0	16.0	18.9	21.8	25.8
67.5°	0.0	2.8	5.5	8.0	10.1	12.2	15.2	18.5	21.8	26.4	30.9
65°	0.0	3.0	6.1	8.7	11.0	13.6	17.3	21.0	25.8	30.9	37.3
62.5°	0.0	3.3	6.6	9.3	11.8	15.3	19.4	24.1	29.8	36.2	47.1
60°	0.0	3.6	7.2	9.9	12.7	17.1	21.5	27.5	33.6	44.8	56.7
57.5°	0.0	3.9	7.6	10.5	14.0	18.7	24.2	30.8	40.4	53.3	81.4
55°	0.0	4.1	8.0	11.1	15.3	20.4	27.0	34.1	47.7	65.9	112.8
52.5°	0.0	4.4	8.4	11.7	16.5	22.1	29.7	39.9	54.8	93.5	143.4
50°	0.0	4.6	8.8	12.3	17.8	24.2	32.2	46.0	66.7	120.2	199.1
47.5°	0.0	4.9	9.1	12.9	19.0	26.3	35.1	51.8	89.6	146.0	256.0
45°	0.0	5.1	9.5	13.8	20.1	28.3	39.9	57.4	111.7	194.8	310.9
42.5°	0.0	5.3	9.8	14.6	21.2	30.2	44.5	70.4	132.9	242.1	375.5
40°	0.0	5.5	10.1	15.4	22.4	32.1	48.9	88.1	159.6	287.4	439.4
37.5°	0.0	5.7	10.4	16.1	23.8	33.8	53.1	105.0	197.8	333.7	500.3
35°	0.0	5.9	10.7	16.8	25.1	36.5	57.1	120.9	234.0	385.4	557.5
32.5°	0.0	6.1	11.0	17.5	26.4	39.6	63.5	135.9	268.1	434.2	610.6
30°	0.0	6.2	11.2	18.1	27.5	42.5	75.4	153.1	300.0	479.8	660.4
27.5°	0.0	6.4	11.5	18.6	28.6	45.2	86.5	178.9	332.5	522.3	706.7
25°	0.0	6.5	11.7	19.2	29.6	47.7	96.8	202.7	367.1	560.8	750.0
22.5°	0.0	6.7	11.9	19.6	30.5	49.9	106.1	224.3	398.6	595.6	799.4
20°	0.0	6.8	12.0	20.1	31.3	52.0	114.5	243.9	427.0	627.1	844.1
17.5°	0.0	6.9	12.2	20.4	32.0	53.8	121.9	261.2	452.3	655.0	883.8
15°	0.0	7.0	12.3	20.8	32.7	55.3	128.4	276.3	474.3	679.4	918.5
12.5°	0.0	7.0	12.4	21.1	33.2	56.7	134.0	289.2	493.0	700.1	948.0
10°	0.0	7.1	12.5	21.3	33.6	57.7	138.5	299.7	508.4	717.2	972.3
7.5°	0.0	7.1	12.6	21.5	34.0	58.6	142.0	308.0	520.4	730.5	991.2
5°	0.0	7.2	12.7	21.6	34.2	59.2	144.6	313.9	529.0	740.1	1004.8
2.5°	0.0	7.2	12.7	21.7	34.4	59.6	146.1	317.4	534.2	745.8	1013.0
0°	0.0	7.2	12.7	21.7	34.4	59.6	146.1	317.4	534.2	745.8	1013.0
-2.5°	0.0	7.2	12.7	21.7	34.4	59.6	146.1	317.4	534.2	745.8	1013.0
-5°	0.0	7.2	12.7	21.6	34.2	59.2	144.6	313.9	529.0	740.1	1004.8
-7.5°	0.0	7.1	12.6	21.5	34.0	58.6	142.0	308.0	520.4	730.5	991.2
-10°	0.0	7.1	12.5	21.3	33.6	57.7	138.5	299.7	508.4	717.2	972.3
-12.5°	0.0	7.0	12.4	21.1	33.2	56.7	134.0	289.2	493.0	700.1	948.0
-15°	0.0	7.0	12.3	20.8	32.7	55.3	128.4	276.3	474.3	679.4	918.5
-17.5°	0.0	6.9	12.2	20.4	32.0	53.8	121.9	261.2	452.3	655.0	883.8
-20°	0.0	6.8	12.0	20.1	31.3	52.0	114.5	243.9	427.0	627.1	844.1



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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°	0.0	6.7	11.9	19.6	30.5	49.9	106.1	224.3	398.6	595.6	799.4
-25°	0.0	6.5	11.7	19.2	29.6	47.7	96.8	202.7	367.1	560.8	750.0
-27.5°	0.0	6.4	11.5	18.6	28.6	45.2	86.5	178.9	332.5	522.3	706.7
-30°	0.0	6.2	11.2	18.1	27.5	42.5	75.4	153.1	300.0	479.8	660.4
-32.5°	0.0	6.1	11.0	17.5	26.4	39.6	63.5	135.9	268.1	434.2	610.6
-35°	0.0	5.9	10.7	16.8	25.1	36.5	57.1	120.9	234.0	385.4	557.5
-37.5°	0.0	5.7	10.4	16.1	23.8	33.8	53.1	105.0	197.8	333.7	500.3
-40°	0.0	5.5	10.1	15.4	22.4	32.1	48.9	88.1	159.6	287.4	439.4
-42.5°	0.0	5.3	9.8	14.6	21.2	30.2	44.5	70.4	132.9	242.1	375.5
-45°	0.0	5.1	9.5	13.8	20.1	28.3	39.9	57.4	111.7	194.8	310.9
-47.5°	0.0	4.9	9.1	12.9	19.0	26.3	35.1	51.8	89.6	146.0	256.0
-50°	0.0	4.6	8.8	12.3	17.8	24.2	32.2	46.0	66.7	120.2	199.1
-52.5°	0.0	4.4	8.4	11.7	16.5	22.1	29.7	39.9	54.8	93.5	143.4
-55°	0.0	4.1	8.0	11.1	15.3	20.4	27.0	34.1	47.7	65.9	112.8
-57.5°	0.0	3.9	7.6	10.5	14.0	18.7	24.2	30.8	40.4	53.3	81.4
-60°	0.0	3.6	7.2	9.9	12.7	17.1	21.5	27.5	33.6	44.8	56.7
-62.5°	0.0	3.3	6.6	9.3	11.8	15.3	19.4	24.1	29.8	36.2	47.1
-65°	0.0	3.0	6.1	8.7	11.0	13.6	17.3	21.0	25.8	30.9	37.3
-67.5°	0.0	2.8	5.5	8.0	10.1	12.2	15.2	18.5	21.8	26.4	30.9
-70°	0.0	2.5	4.9	7.3	9.2	11.0	13.0	16.0	18.9	21.8	25.8
-72.5°	0.0	2.2	4.3	6.5	8.3	9.9	11.5	13.4	16.0	18.5	21.0
-75°	0.0	1.9	3.7	5.6	7.4	8.8	10.2	11.5	13.0	15.2	17.3
-77.5°	0.0	1.6	3.1	4.7	6.2	7.6	8.8	9.9	11.0	12.2	13.6
-80°	0.0	1.2	2.5	3.7	5.0	6.2	7.4	8.3	9.2	10.1	11.0
-82.5°	0.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.3	8.0	8.7
-85°	0.0	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.1
-87.5°	0.0	0.3	0.6	0.9	1.2	1.6	1.9	2.2	2.5	2.8	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.3	5.5	5.7
85°	6.6	7.2	7.6	8.0	8.4	8.8	9.1	9.5	9.8	10.1	10.4
82.5°	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.8	14.6	15.4	16.1
80°	11.8	12.7	14.0	15.3	16.5	17.8	19.0	20.1	21.2	22.4	23.8
77.5°	15.3	17.1	18.7	20.4	22.1	24.2	26.3	28.3	30.2	32.1	33.8
75°	19.4	21.5	24.2	27.0	29.7	32.2	35.1	39.9	44.5	48.9	53.1
72.5°	24.1	27.5	30.8	34.1	39.9	46.0	51.8	57.4	70.4	88.1	105.0
70°	29.8	33.6	40.4	47.7	54.8	66.7	89.6	111.7	132.9	159.6	197.8
67.5°	36.2	44.8	53.3	65.9	93.5	120.2	146.0	194.8	242.1	287.4	333.7
65°	47.1	56.7	81.4	112.8	143.4	199.1	256.0	310.9	375.5	439.4	500.3
62.5°	57.8	89.2	124.5	171.2	237.8	302.5	377.4	453.9	527.5	596.5	662.1
60°	89.2	128.4	186.8	261.2	337.8	427.0	513.5	595.6	674.1	750.0	841.0
57.5°	124.5	186.8	269.0	357.7	457.0	553.2	644.7	733.2	837.4	941.2	1041.0
55°	171.2	261.2	357.7	467.0	572.9	674.4	779.8	900.7	1017.5	1132.1	1241.9
52.5°	237.8	337.8	457.0	572.9	684.3	805.1	939.0	1070.0	1198.2	1320.7	1435.9
50°	302.5	427.0	553.2	674.4	805.1	951.9	1096.4	1238.1	1373.0	1501.8	1642.3
47.5°	377.4	513.5	644.7	779.8	939.0	1096.4	1251.5	1399.4	1541.8	1709.0	1872.9
45°	453.9	595.6	733.2	900.7	1070.0	1238.1	1399.4	1555.2	1742.6	1925.7	2108.2
42.5°	527.5	674.1	837.4	1017.5	1198.2	1373.0	1541.8	1742.6	1943.5	2144.4	2320.0
40°	596.5	750.0	941.2	1132.1	1320.7	1501.8	1709.0	1925.7	2144.4	2335.4	2506.4
37.5°	662.1	841.0	1041.0	1241.9	1435.9	1642.3	1872.9	2108.2	2320.0	2506.4	2657.7
35°	724.4	927.6	1137.3	1344.9	1545.8	1788.8	2036.2	2274.0	2475.1	2644.4	3061.1
32.5°	792.7	1009.4	1228.5	1441.4	1672.8	1929.9	2192.3	2413.0	2604.8	2895.0	3912.5
30°	862.5	1087.8	1313.6	1532.2	1794.6	2067.1	2321.2	2539.6	2721.6	3658.4	4633.9
27.5°	927.6	1160.9	1391.6	1631.9	1909.8	2195.9	2436.6	2642.3	3240.8	4349.3	5269.4
25°	987.7	1228.5	1463.8	1729.3	2020.3	2300.9	2539.0	2738.2	3871.9	4907.3	5591.8
22.5°	1043.3	1290.4	1529.9	1818.8	2121.9	2392.5	2621.1	3210.4	4411.7	5410.7	5819.7
20°	1093.9	1344.9	1598.0	1900.5	2214.0	2475.7	2695.8	3705.1	4851.7	5605.1	6037.9
17.5°	1139.1	1393.5	1664.1	1976.0	2285.0	2544.1	2818.6	4149.3	5247.8	5780.6	6239.3
15°	1178.5	1435.9	1721.9	2042.1	2345.0	2598.3	3179.2	4481.3	5481.3	5938.5	6419.0
12.5°	1212.0	1472.1	1771.2	2098.6	2396.4	2644.7	3488.1	4758.0	5604.4	6080.6	6608.0
10°	1239.6	1501.8	1811.8	2145.1	2438.7	2683.0	3743.5	4987.1	5706.5	6198.6	6765.4
7.5°	1261.2	1525.1	1843.6	2181.6	2471.9	2713.0	3944.0	5167.0	5786.9	6291.6	6889.7
5°	1276.7	1541.8	1866.4	2207.7	2495.7	2734.6	4088.0	5296.5	5844.7	6358.7	6979.4
2.5°	1286.0	1551.8	1880.1	2223.4	2510.0	2747.6	4174.9	5374.6	5879.6	6399.2	7033.6
0°	1289.1	1555.2	1884.7	2228.7	2514.8	2751.9	4203.9	5400.7	5891.3	6412.7	7051.8
-2.5°	1286.0	1551.8	1880.1	2223.4	2510.0	2747.6	4174.9	5374.6	5879.6	6399.2	7033.6
-5°	1276.7	1541.8	1866.4	2207.7	2495.7	2734.6	4088.0	5296.5	5844.7	6358.7	6979.4
-7.5°	1261.2	1525.1	1843.6	2181.6	2471.9	2713.0	3944.0	5167.0	5786.9	6291.6	6889.7
-10°	1239.6	1501.8	1811.8	2145.1	2438.7	2683.0	3743.5	4987.1	5706.5	6198.6	6765.4
-12.5°	1212.0	1472.1	1771.2	2098.6	2396.4	2644.7	3488.1	4758.0	5604.4	6080.6	6608.0
-15°	1178.5	1435.9	1721.9	2042.1	2345.0	2598.3	3179.2	4481.3	5481.3	5938.5	6419.0
-17.5°	1139.1	1393.5	1664.1	1976.0	2285.0	2544.1	2818.6	4149.3	5247.8	5780.6	6239.3
-20°	1093.9	1344.9	1598.0	1900.5	2214.0	2475.7	2695.8	3705.1	4851.7	5605.1	6037.9



REPORT NUMBER: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1043.3	1290.4	1529.9	1818.8	2121.9	2392.5	2621.1	3210.4	4411.7	5410.7	5819.7
-25°	987.7	1228.5	1463.8	1729.3	2020.3	2300.9	2539.0	2738.2	3871.9	4907.3	5591.8
-27.5°	927.6	1160.9	1391.6	1631.9	1909.8	2195.9	2436.6	2642.3	3240.8	4349.3	5269.4
-30°	862.5	1087.8	1313.6	1532.2	1794.6	2067.1	2321.2	2539.6	2721.6	3658.4	4633.9
-32.5°	792.7	1009.4	1228.5	1441.4	1672.8	1929.9	2192.3	2413.0	2604.8	2895.0	3912.5
-35°	724.4	927.6	1137.3	1344.9	1545.8	1788.8	2036.2	2274.0	2475.1	2644.4	3061.1
-37.5°	662.1	841.0	1041.0	1241.9	1435.9	1642.3	1872.9	2108.2	2320.0	2506.4	2657.7
-40°	596.5	750.0	941.2	1132.1	1320.7	1501.8	1709.0	1925.7	2144.4	2335.4	2506.4
-42.5°	527.5	674.1	837.4	1017.5	1198.2	1373.0	1541.8	1742.6	1943.5	2144.4	2320.0
-45°	453.9	595.6	733.2	900.7	1070.0	1238.1	1399.4	1555.2	1742.6	1925.7	2108.2
-47.5°	377.4	513.5	644.7	779.8	939.0	1096.4	1251.5	1399.4	1541.8	1709.0	1872.9
-50°	302.5	427.0	553.2	674.4	805.1	951.9	1096.4	1238.1	1373.0	1501.8	1642.3
-52.5°	237.8	337.8	457.0	572.9	684.3	805.1	939.0	1070.0	1198.2	1320.7	1435.9
-55°	171.2	261.2	357.7	467.0	572.9	674.4	779.8	900.7	1017.5	1132.1	1241.9
-57.5°	124.5	186.8	269.0	357.7	457.0	553.2	644.7	733.2	837.4	941.2	1041.0
-60°	89.2	128.4	186.8	261.2	337.8	427.0	513.5	595.6	674.1	750.0	841.0
-62.5°	57.8	89.2	124.5	171.2	237.8	302.5	377.4	453.9	527.5	596.5	662.1
-65°	47.1	56.7	81.4	112.8	143.4	199.1	256.0	310.9	375.5	439.4	500.3
-67.5°	36.2	44.8	53.3	65.9	93.5	120.2	146.0	194.8	242.1	287.4	333.7
-70°	29.8	33.6	40.4	47.7	54.8	66.7	89.6	111.7	132.9	159.6	197.8
-72.5°	24.1	27.5	30.8	34.1	39.9	46.0	51.8	57.4	70.4	88.1	105.0
-75°	19.4	21.5	24.2	27.0	29.7	32.2	35.1	39.9	44.5	48.9	53.1
-77.5°	15.3	17.1	18.7	20.4	22.1	24.2	26.3	28.3	30.2	32.1	33.8
-80°	11.8	12.7	14.0	15.3	16.5	17.8	19.0	20.1	21.2	22.4	23.8
-82.5°	9.3	9.9	10.5	11.1	11.7	12.3	12.9	13.8	14.6	15.4	16.1
-85°	6.6	7.2	7.6	8.0	8.4	8.8	9.1	9.5	9.8	10.1	10.4
-87.5°	3.3	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.3	5.5	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	6.1	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.0	7.1
85°	10.7	11.0	11.2	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5
82.5°	16.8	17.5	18.1	18.6	19.2	19.6	20.1	20.4	20.8	21.1	21.3
80°	25.1	26.4	27.5	28.6	29.6	30.5	31.3	32.0	32.7	33.2	33.6
77.5°	36.5	39.6	42.5	45.2	47.7	49.9	52.0	53.8	55.3	56.7	57.7
75°	57.1	63.5	75.4	86.5	96.8	106.1	114.5	121.9	128.4	134.0	138.5
72.5°	120.9	135.9	153.1	178.9	202.7	224.3	243.9	261.2	276.3	289.2	299.7
70°	234.0	268.1	300.0	332.5	367.1	398.6	427.0	452.3	474.3	493.0	508.4
67.5°	385.4	434.2	479.8	522.3	560.8	595.6	627.1	655.0	679.4	700.1	717.2
65°	557.5	610.6	660.4	706.7	750.0	799.4	844.1	883.8	918.5	948.0	972.3
62.5°	724.4	792.7	862.5	927.6	987.7	1043.3	1093.9	1139.1	1178.5	1212.0	1239.6
60°	927.6	1009.4	1087.8	1160.9	1228.5	1290.4	1344.9	1393.5	1435.9	1472.1	1501.8
57.5°	1137.3	1228.5	1313.6	1391.6	1463.8	1529.9	1598.0	1664.1	1721.9	1771.2	1811.8
55°	1344.9	1441.4	1532.2	1631.9	1729.3	1818.8	1900.5	1976.0	2042.1	2098.6	2145.1
52.5°	1545.8	1672.8	1794.6	1909.8	2020.3	2121.9	2214.0	2285.0	2345.0	2396.4	2438.7
50°	1788.8	1929.9	2067.1	2195.9	2300.9	2392.5	2475.7	2544.1	2598.3	2644.7	2683.0
47.5°	2036.2	2192.3	2321.2	2436.6	2539.0	2621.1	2695.8	2818.6	3179.2	3488.1	3743.5
45°	2274.0	2413.0	2539.6	2642.3	2738.2	3210.4	3705.1	4149.3	4481.3	4758.0	4987.1
42.5°	2475.1	2604.8	2721.6	3240.8	3871.9	4411.7	4851.7	5247.8	5481.3	5604.4	5706.5
40°	2644.4	2895.0	3658.4	4349.3	4907.3	5410.7	5605.1	5780.6	5938.5	6080.6	6198.6
37.5°	3061.1	3912.5	4633.9	5269.4	5591.8	5819.7	6037.9	6239.3	6419.0	6608.0	6765.4
35°	3997.8	4777.7	5437.3	5715.0	5982.4	6242.2	6497.5	6764.0	7001.1	7257.2	7485.0
32.5°	4777.7	5467.7	5777.4	6084.4	6381.7	6716.1	7032.0	7407.8	7749.2	8159.3	8602.2
30°	5437.3	5777.4	6118.7	6461.3	6849.9	7269.2	7720.5	8315.2	8975.0	9627.5	10384.0
27.5°	5715.0	6084.4	6461.3	6894.9	7393.0	7921.5	8786.0	9674.3	10793.2	11774.6	14134.7
25°	5982.4	6381.7	6849.9	7393.0	8037.0	9025.9	10257.8	11599.1	14738.1	17802.6	22922.0
22.5°	6242.2	6716.1	7269.2	7921.5	9025.9	10455.1	12443.1	16581.0	22809.7	30673.5	39270.7
20°	6497.5	7032.0	7720.5	8786.0	10257.8	12443.1	17206.1	25888.8	36236.6	50142.6	62979.5
17.5°	6764.0	7407.8	8315.2	9674.3	11599.1	16581.0	25888.8	38894.6	55779.1	75039.5	93100.3
15°	7001.1	7749.2	8975.0	10793.2	14738.1	22809.7	36236.6	55779.1	79176.1	103053.3	126090.0
12.5°	7257.2	8159.3	9627.5	11774.6	17802.6	30673.5	50142.6	75039.5	103053.3	131685.1	156474.7
10°	7485.0	8602.2	10384.0	14134.7	22922.0	39270.7	62979.5	93100.3	126090.0	156474.7	186047.4
7.5°	7665.2	8953.5	10986.0	16027.4	27821.6	48036.4	76215.2	109954.2	144873.8	178548.9	216361.1
5°	7795.6	9208.3	11423.8	17408.6	31412.9	54498.8	86048.5	122720.9	158943.1	198198.7	241449.4
2.5°	7874.6	9362.7	11689.8	18249.6	33606.8	58463.5	92116.3	130663.5	167801.5	211385.0	259863.6
0°	7901.0	9414.5	11779.0	18532.1	34344.9	59800.3	94168.7	133362.1	170831.9	215933.0	266490.7
-2.5°	7874.6	9362.7	11689.8	18249.6	33606.8	58463.5	92116.3	130663.5	167801.5	211385.0	259863.6
-5°	7795.6	9208.3	11423.8	17408.6	31412.9	54498.8	86048.5	122720.9	158943.1	198198.7	241449.4
-7.5°	7665.2	8953.5	10986.0	16027.4	27821.6	48036.4	76215.2	109954.2	144873.8	178548.9	216361.1
-10°	7485.0	8602.2	10384.0	14134.7	22922.0	39270.7	62979.5	93100.3	126090.0	156474.7	186047.4
-12.5°	7257.2	8159.3	9627.5	11774.6	17802.6	30673.5	50142.6	75039.5	103053.3	131685.1	156474.7
-15°	7001.1	7749.2	8975.0	10793.2	14738.1	22809.7	36236.6	55779.1	79176.1	103053.3	126090.0
-17.5°	6764.0	7407.8	8315.2	9674.3	11599.1	16581.0	25888.8	38894.6	55779.1	75039.5	93100.3
-20°	6497.5	7032.0	7720.5	8786.0	10257.8	12443.1	17206.1	25888.8	36236.6	50142.6	62979.5



REPORT NUMBER: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6242.2	6716.1	7269.2	7921.5	9025.9	10455.1	12443.1	16581.0	22809.7	30673.5	39270.7
-25°	5982.4	6381.7	6849.9	7393.0	8037.0	9025.9	10257.8	11599.1	14738.1	17802.6	22922.0
-27.5°	5715.0	6084.4	6461.3	6894.9	7393.0	7921.5	8786.0	9674.3	10793.2	11774.6	14134.7
-30°	5437.3	5777.4	6118.7	6461.3	6849.9	7269.2	7720.5	8315.2	8975.0	9627.5	10384.0
-32.5°	4777.7	5467.7	5777.4	6084.4	6381.7	6716.1	7032.0	7407.8	7749.2	8159.3	8602.2
-35°	3997.8	4777.7	5437.3	5715.0	5982.4	6242.2	6497.5	6764.0	7001.1	7257.2	7485.0
-37.5°	3061.1	3912.5	4633.9	5269.4	5591.8	5819.7	6037.9	6239.3	6419.0	6608.0	6765.4
-40°	2644.4	2895.0	3658.4	4349.3	4907.3	5410.7	5605.1	5780.6	5938.5	6080.6	6198.6
-42.5°	2475.1	2604.8	2721.6	3240.8	3871.9	4411.7	4851.7	5247.8	5481.3	5604.4	5706.5
-45°	2274.0	2413.0	2539.6	2642.3	2738.2	3210.4	3705.1	4149.3	4481.3	4758.0	4987.1
-47.5°	2036.2	2192.3	2321.2	2436.6	2539.0	2621.1	2695.8	2818.6	3179.2	3488.1	3743.5
-50°	1788.8	1929.9	2067.1	2195.9	2300.9	2392.5	2475.7	2544.1	2598.3	2644.7	2683.0
-52.5°	1545.8	1672.8	1794.6	1909.8	2020.3	2121.9	2214.0	2285.0	2345.0	2396.4	2438.7
-55°	1344.9	1441.4	1532.2	1631.9	1729.3	1818.8	1900.5	1976.0	2042.1	2098.6	2145.1
-57.5°	1137.3	1228.5	1313.6	1391.6	1463.8	1529.9	1598.0	1664.1	1721.9	1771.2	1811.8
-60°	927.6	1009.4	1087.8	1160.9	1228.5	1290.4	1344.9	1393.5	1435.9	1472.1	1501.8
-62.5°	724.4	792.7	862.5	927.6	987.7	1043.3	1093.9	1139.1	1178.5	1212.0	1239.6
-65°	557.5	610.6	660.4	706.7	750.0	799.4	844.1	883.8	918.5	948.0	972.3
-67.5°	385.4	434.2	479.8	522.3	560.8	595.6	627.1	655.0	679.4	700.1	717.2
-70°	234.0	268.1	300.0	332.5	367.1	398.6	427.0	452.3	474.3	493.0	508.4
-72.5°	120.9	135.9	153.1	178.9	202.7	224.3	243.9	261.2	276.3	289.2	299.7
-75°	57.1	63.5	75.4	86.5	96.8	106.1	114.5	121.9	128.4	134.0	138.5
-77.5°	36.5	39.6	42.5	45.2	47.7	49.9	52.0	53.8	55.3	56.7	57.7
-80°	25.1	26.4	27.5	28.6	29.6	30.5	31.3	32.0	32.7	33.2	33.6
-82.5°	16.8	17.5	18.1	18.6	19.2	19.6	20.1	20.4	20.8	21.1	21.3
-85°	10.7	11.0	11.2	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5
-87.5°	5.9	6.1	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.0	7.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.0	7.0	6.9
85°	12.6	12.7	12.7	12.7	12.7	12.7	12.6	12.5	12.4	12.3	12.2
82.5°	21.5	21.6	21.7	21.7	21.7	21.6	21.5	21.3	21.1	20.8	20.4
80°	34.0	34.2	34.4	34.4	34.4	34.2	34.0	33.6	33.2	32.7	32.0
77.5°	58.6	59.2	59.6	59.7	59.6	59.2	58.6	57.7	56.7	55.3	53.8
75°	142.0	144.6	146.1	146.6	146.1	144.6	142.0	138.5	134.0	128.4	121.9
72.5°	308.0	313.9	317.4	318.6	317.4	313.9	308.0	299.7	289.2	276.3	261.2
70°	520.4	529.0	534.2	535.9	534.2	529.0	520.4	508.4	493.0	474.3	452.3
67.5°	730.5	740.1	745.8	747.7	745.8	740.1	730.5	717.2	700.1	679.4	655.0
65°	991.2	1004.8	1013.0	1015.7	1013.0	1004.8	991.2	972.3	948.0	918.5	883.8
62.5°	1261.2	1276.7	1286.0	1289.1	1286.0	1276.7	1261.2	1239.6	1212.0	1178.5	1139.1
60°	1525.1	1541.8	1551.8	1555.2	1551.8	1541.8	1525.1	1501.8	1472.1	1435.9	1393.5
57.5°	1843.6	1866.4	1880.1	1884.7	1880.1	1866.4	1843.6	1811.8	1771.2	1721.9	1664.1
55°	2181.6	2207.7	2223.4	2228.7	2223.4	2207.7	2181.6	2145.1	2098.6	2042.1	1976.0
52.5°	2471.9	2495.7	2510.0	2514.8	2510.0	2495.7	2471.9	2438.7	2396.4	2345.0	2285.0
50°	2713.0	2734.6	2747.6	2751.9	2747.6	2734.6	2713.0	2683.0	2644.7	2598.3	2544.1
47.5°	3944.0	4088.0	4174.9	4203.9	4174.9	4088.0	3944.0	3743.5	3488.1	3179.2	2818.6
45°	5167.0	5296.5	5374.6	5400.7	5374.6	5296.5	5167.0	4987.1	4758.0	4481.3	4149.3
42.5°	5786.9	5844.7	5879.6	5891.3	5879.6	5844.7	5786.9	5706.5	5604.4	5481.3	5247.8
40°	6291.6	6358.7	6399.2	6412.7	6399.2	6358.7	6291.6	6198.6	6080.6	5938.5	5780.6
37.5°	6889.7	6979.4	7033.6	7051.8	7033.6	6979.4	6889.7	6765.4	6608.0	6419.0	6239.3
35°	7665.2	7795.6	7874.6	7901.0	7874.6	7795.6	7665.2	7485.0	7257.2	7001.1	6764.0
32.5°	8953.5	9208.3	9362.7	9414.5	9362.7	9208.3	8953.5	8602.2	8159.3	7749.2	7407.8
30°	10986.0	11423.8	11689.8	11779.0	11689.8	11423.8	10986.0	10384.0	9627.5	8975.0	8315.2
27.5°	16027.4	17408.6	18249.6	18532.1	18249.6	17408.6	16027.4	14134.7	11774.6	10793.2	9674.3
25°	27821.6	31412.9	33606.8	34344.9	33606.8	31412.9	27821.6	22922.0	17802.6	14738.1	11599.1
22.5°	48036.4	54498.8	58463.5	59800.3	58463.5	54498.8	48036.4	39270.7	30673.5	22809.7	16581.0
20°	76215.2	86048.5	92116.3	94168.7	92116.3	86048.5	76215.2	62979.5	50142.6	36236.6	25888.8
17.5°	109954.2	122720.9	130663.5	133362.1	130663.5	122720.9	109954.2	93100.3	75039.5	55779.1	38894.6
15°	144873.8	158943.1	167801.5	170831.9	167801.5	158943.1	144873.8	126090.0	103053.3	79176.1	55779.1
12.5°	178548.9	198198.7	211385.0	215933.0	211385.0	198198.7	178548.9	156474.7	131685.1	103053.3	75039.5
10°	216361.1	241449.4	259863.6	266490.7	259863.6	241449.4	216361.1	186047.4	156474.7	126090.0	93100.3
7.5°	253626.8	287495.4	306229.7	311791.8	306229.7	287495.4	253626.8	216361.1	178548.9	144873.8	109954.2
5°	287495.4	317767.3	335095.1	341089.9	335095.1	317767.3	287495.4	241449.4	198198.7	158943.1	122720.9
2.5°	306229.7	335095.1	359147.8	375469.2	359147.8	335095.1	306229.7	259863.6	211385.0	167801.5	130663.5
0°	311791.8	341089.9	375469.2	398371.8	375469.2	341089.9	311791.8	266490.7	215933.0	170831.9	133362.1
-2.5°	306229.7	335095.1	359147.8	375469.2	359147.8	335095.1	306229.7	259863.6	211385.0	167801.5	130663.5
-5°	287495.4	317767.3	335095.1	341089.9	335095.1	317767.3	287495.4	241449.4	198198.7	158943.1	122720.9
-7.5°	253626.8	287495.4	306229.7	311791.8	306229.7	287495.4	253626.8	216361.1	178548.9	144873.8	109954.2
-10°	216361.1	241449.4	259863.6	266490.7	259863.6	241449.4	216361.1	186047.4	156474.7	126090.0	93100.3
-12.5°	178548.9	198198.7	211385.0	215933.0	211385.0	198198.7	178548.9	156474.7	131685.1	103053.3	75039.5
-15°	144873.8	158943.1	167801.5	170831.9	167801.5	158943.1	144873.8	126090.0	103053.3	79176.1	55779.1
-17.5°	109954.2	122720.9	130663.5	133362.1	130663.5	122720.9	109954.2	93100.3	75039.5	55779.1	38894.6
-20°	76215.2	86048.5	92116.3	94168.7	92116.3	86048.5	76215.2	62979.5	50142.6	36236.6	25888.8



REPORT NUMBER: P701489 (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°	48036.4	54498.8	58463.5	59800.3	58463.5	54498.8	48036.4	39270.7	30673.5	22809.7	16581.0
-25°	27821.6	31412.9	33606.8	34344.9	33606.8	31412.9	27821.6	22922.0	17802.6	14738.1	11599.1
-27.5°	16027.4	17408.6	18249.6	18532.1	18249.6	17408.6	16027.4	14134.7	11774.6	10793.2	9674.3
-30°	10986.0	11423.8	11689.8	11779.0	11689.8	11423.8	10986.0	10384.0	9627.5	8975.0	8315.2
-32.5°	8953.5	9208.3	9362.7	9414.5	9362.7	9208.3	8953.5	8602.2	8159.3	7749.2	7407.8
-35°	7665.2	7795.6	7874.6	7901.0	7874.6	7795.6	7665.2	7485.0	7257.2	7001.1	6764.0
-37.5°	6889.7	6979.4	7033.6	7051.8	7033.6	6979.4	6889.7	6765.4	6608.0	6419.0	6239.3
-40°	6291.6	6358.7	6399.2	6412.7	6399.2	6358.7	6291.6	6198.6	6080.6	5938.5	5780.6
-42.5°	5786.9	5844.7	5879.6	5891.3	5879.6	5844.7	5786.9	5706.5	5604.4	5481.3	5247.8
-45°	5167.0	5296.5	5374.6	5400.7	5374.6	5296.5	5167.0	4987.1	4758.0	4481.3	4149.3
-47.5°	3944.0	4088.0	4174.9	4203.9	4174.9	4088.0	3944.0	3743.5	3488.1	3179.2	2818.6
-50°	2713.0	2734.6	2747.6	2751.9	2747.6	2734.6	2713.0	2683.0	2644.7	2598.3	2544.1
-52.5°	2471.9	2495.7	2510.0	2514.8	2510.0	2495.7	2471.9	2438.7	2396.4	2345.0	2285.0
-55°	2181.6	2207.7	2223.4	2228.7	2223.4	2207.7	2181.6	2145.1	2098.6	2042.1	1976.0
-57.5°	1843.6	1866.4	1880.1	1884.7	1880.1	1866.4	1843.6	1811.8	1771.2	1721.9	1664.1
-60°	1525.1	1541.8	1551.8	1555.2	1551.8	1541.8	1525.1	1501.8	1472.1	1435.9	1393.5
-62.5°	1261.2	1276.7	1286.0	1289.1	1286.0	1276.7	1261.2	1239.6	1212.0	1178.5	1139.1
-65°	991.2	1004.8	1013.0	1015.7	1013.0	1004.8	991.2	972.3	948.0	918.5	883.8
-67.5°	730.5	740.1	745.8	747.7	745.8	740.1	730.5	717.2	700.1	679.4	655.0
-70°	520.4	529.0	534.2	535.9	534.2	529.0	520.4	508.4	493.0	474.3	452.3
-72.5°	308.0	313.9	317.4	318.6	317.4	313.9	308.0	299.7	289.2	276.3	261.2
-75°	142.0	144.6	146.1	146.6	146.1	144.6	142.0	138.5	134.0	128.4	121.9
-77.5°	58.6	59.2	59.6	59.7	59.6	59.2	58.6	57.7	56.7	55.3	53.8
-80°	34.0	34.2	34.4	34.4	34.4	34.2	34.0	33.6	33.2	32.7	32.0
-82.5°	21.5	21.6	21.7	21.7	21.7	21.6	21.5	21.3	21.1	20.8	20.4
-85°	12.6	12.7	12.7	12.7	12.7	12.7	12.6	12.5	12.4	12.3	12.2
-87.5°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.0	7.0	6.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	6.7	6.5	6.4	6.2	6.1	5.9	5.7	5.5	5.3	5.1
85°	12.0	11.9	11.7	11.5	11.2	11.0	10.7	10.4	10.1	9.8	9.5
82.5°	20.1	19.6	19.2	18.6	18.1	17.5	16.8	16.1	15.4	14.6	13.8
80°	31.3	30.5	29.6	28.6	27.5	26.4	25.1	23.8	22.4	21.2	20.1
77.5°	52.0	49.9	47.7	45.2	42.5	39.6	36.5	33.8	32.1	30.2	28.3
75°	114.5	106.1	96.8	86.5	75.4	63.5	57.1	53.1	48.9	44.5	39.9
72.5°	243.9	224.3	202.7	178.9	153.1	135.9	120.9	105.0	88.1	70.4	57.4
70°	427.0	398.6	367.1	332.5	300.0	268.1	234.0	197.8	159.6	132.9	111.7
67.5°	627.1	595.6	560.8	522.3	479.8	434.2	385.4	333.7	287.4	242.1	194.8
65°	844.1	799.4	750.0	706.7	660.4	610.6	557.5	500.3	439.4	375.5	310.9
62.5°	1093.9	1043.3	987.7	927.6	862.5	792.7	724.4	662.1	596.5	527.5	453.9
60°	1344.9	1290.4	1228.5	1160.9	1087.8	1009.4	927.6	841.0	750.0	674.1	595.6
57.5°	1598.0	1529.9	1463.8	1391.6	1313.6	1228.5	1137.3	1041.0	941.2	837.4	733.2
55°	1900.5	1818.8	1729.3	1631.9	1532.2	1441.4	1344.9	1241.9	1132.1	1017.5	900.7
52.5°	2214.0	2121.9	2020.3	1909.8	1794.6	1672.8	1545.8	1435.9	1320.7	1198.2	1070.0
50°	2475.7	2392.5	2300.9	2195.9	2067.1	1929.9	1788.8	1642.3	1501.8	1373.0	1238.1
47.5°	2695.8	2621.1	2539.0	2436.6	2321.2	2192.3	2036.2	1872.9	1709.0	1541.8	1399.4
45°	3705.1	3210.4	2738.2	2642.3	2539.6	2413.0	2274.0	2108.2	1925.7	1742.6	1555.2
42.5°	4851.7	4411.7	3871.9	3240.8	2721.6	2604.8	2475.1	2320.0	2144.4	1943.5	1742.6
40°	5605.1	5410.7	4907.3	4349.3	3658.4	2895.0	2644.4	2506.4	2335.4	2144.4	1925.7
37.5°	6037.9	5819.7	5591.8	5269.4	4633.9	3912.5	3061.1	2657.7	2506.4	2320.0	2108.2
35°	6497.5	6242.2	5982.4	5715.0	5437.3	4777.7	3997.8	3061.1	2644.4	2475.1	2274.0
32.5°	7032.0	6716.1	6381.7	6084.4	5777.4	5467.7	4777.7	3912.5	2895.0	2604.8	2413.0
30°	7720.5	7269.2	6849.9	6461.3	6118.7	5777.4	5437.3	4633.9	3658.4	2721.6	2539.6
27.5°	8786.0	7921.5	7393.0	6894.9	6461.3	6084.4	5715.0	5269.4	4349.3	3240.8	2642.3
25°	10257.8	9025.9	8037.0	7393.0	6849.9	6381.7	5982.4	5591.8	4907.3	3871.9	2738.2
22.5°	12443.1	10455.1	9025.9	7921.5	7269.2	6716.1	6242.2	5819.7	5410.7	4411.7	3210.4
20°	17206.1	12443.1	10257.8	8786.0	7720.5	7032.0	6497.5	6037.9	5605.1	4851.7	3705.1
17.5°	25888.8	16581.0	11599.1	9674.3	8315.2	7407.8	6764.0	6239.3	5780.6	5247.8	4149.3
15°	36236.6	22809.7	14738.1	10793.2	8975.0	7749.2	7001.1	6419.0	5938.5	5481.3	4481.3
12.5°	50142.6	30673.5	17802.6	11774.6	9627.5	8159.3	7257.2	6608.0	6080.6	5604.4	4758.0
10°	62979.5	39270.7	22922.0	14134.7	10384.0	8602.2	7485.0	6765.4	6198.6	5706.5	4987.1
7.5°	76215.2	48036.4	27821.6	16027.4	10986.0	8953.5	7665.2	6889.7	6291.6	5786.9	5167.0
5°	86048.5	54498.8	31412.9	17408.6	11423.8	9208.3	7795.6	6979.4	6358.7	5844.7	5296.5
2.5°	92116.3	58463.5	33606.8	18249.6	11689.8	9362.7	7874.6	7033.6	6399.2	5879.6	5374.6
0°	94168.7	59800.3	34344.9	18532.1	11779.0	9414.5	7901.0	7051.8	6412.7	5891.3	5400.7
-2.5°	92116.3	58463.5	33606.8	18249.6	11689.8	9362.7	7874.6	7033.6	6399.2	5879.6	5374.6
-5°	86048.5	54498.8	31412.9	17408.6	11423.8	9208.3	7795.6	6979.4	6358.7	5844.7	5296.5
-7.5°	76215.2	48036.4	27821.6	16027.4	10986.0	8953.5	7665.2	6889.7	6291.6	5786.9	5167.0
-10°	62979.5	39270.7	22922.0	14134.7	10384.0	8602.2	7485.0	6765.4	6198.6	5706.5	4987.1
-12.5°	50142.6	30673.5	17802.6	11774.6	9627.5	8159.3	7257.2	6608.0	6080.6	5604.4	4758.0
-15°	36236.6	22809.7	14738.1	10793.2	8975.0	7749.2	7001.1	6419.0	5938.5	5481.3	4481.3
-17.5°	25888.8	16581.0	11599.1	9674.3	8315.2	7407.8	6764.0	6239.3	5780.6	5247.8	4149.3
-20°	17206.1	12443.1	10257.8	8786.0	7720.5	7032.0	6497.5	6037.9	5605.1	4851.7	3705.1



REPORT NUMBER: P701489 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12443.1	10455.1	9025.9	7921.5	7269.2	6716.1	6242.2	5819.7	5410.7	4411.7	3210.4
-25°	10257.8	9025.9	8037.0	7393.0	6849.9	6381.7	5982.4	5591.8	4907.3	3871.9	2738.2
-27.5°	8786.0	7921.5	7393.0	6894.9	6461.3	6084.4	5715.0	5269.4	4349.3	3240.8	2642.3
-30°	7720.5	7269.2	6849.9	6461.3	6118.7	5777.4	5437.3	4633.9	3658.4	2721.6	2539.6
-32.5°	7032.0	6716.1	6381.7	6084.4	5777.4	5467.7	4777.7	3912.5	2895.0	2604.8	2413.0
-35°	6497.5	6242.2	5982.4	5715.0	5437.3	4777.7	3997.8	3061.1	2644.4	2475.1	2274.0
-37.5°	6037.9	5819.7	5591.8	5269.4	4633.9	3912.5	3061.1	2657.7	2506.4	2320.0	2108.2
-40°	5605.1	5410.7	4907.3	4349.3	3658.4	2895.0	2644.4	2506.4	2335.4	2144.4	1925.7
-42.5°	4851.7	4411.7	3871.9	3240.8	2721.6	2604.8	2475.1	2320.0	2144.4	1943.5	1742.6
-45°	3705.1	3210.4	2738.2	2642.3	2539.6	2413.0	2274.0	2108.2	1925.7	1742.6	1555.2
-47.5°	2695.8	2621.1	2539.0	2436.6	2321.2	2192.3	2036.2	1872.9	1709.0	1541.8	1399.4
-50°	2475.7	2392.5	2300.9	2195.9	2067.1	1929.9	1788.8	1642.3	1501.8	1373.0	1238.1
-52.5°	2214.0	2121.9	2020.3	1909.8	1794.6	1672.8	1545.8	1435.9	1320.7	1198.2	1070.0
-55°	1900.5	1818.8	1729.3	1631.9	1532.2	1441.4	1344.9	1241.9	1132.1	1017.5	900.7
-57.5°	1598.0	1529.9	1463.8	1391.6	1313.6	1228.5	1137.3	1041.0	941.2	837.4	733.2
-60°	1344.9	1290.4	1228.5	1160.9	1087.8	1009.4	927.6	841.0	750.0	674.1	595.6
-62.5°	1093.9	1043.3	987.7	927.6	862.5	792.7	724.4	662.1	596.5	527.5	453.9
-65°	844.1	799.4	750.0	706.7	660.4	610.6	557.5	500.3	439.4	375.5	310.9
-67.5°	627.1	595.6	560.8	522.3	479.8	434.2	385.4	333.7	287.4	242.1	194.8
-70°	427.0	398.6	367.1	332.5	300.0	268.1	234.0	197.8	159.6	132.9	111.7
-72.5°	243.9	224.3	202.7	178.9	153.1	135.9	120.9	105.0	88.1	70.4	57.4
-75°	114.5	106.1	96.8	86.5	75.4	63.5	57.1	53.1	48.9	44.5	39.9
-77.5°	52.0	49.9	47.7	45.2	42.5	39.6	36.5	33.8	32.1	30.2	28.3
-80°	31.3	30.5	29.6	28.6	27.5	26.4	25.1	23.8	22.4	21.2	20.1
-82.5°	20.1	19.6	19.2	18.6	18.1	17.5	16.8	16.1	15.4	14.6	13.8
-85°	12.0	11.9	11.7	11.5	11.2	11.0	10.7	10.4	10.1	9.8	9.5
-87.5°	6.8	6.7	6.5	6.4	6.2	6.1	5.9	5.7	5.5	5.3	5.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	4.6	4.4	4.1	3.9	3.6	3.3	3.0	2.8	2.5	2.2
85°	9.1	8.8	8.4	8.0	7.6	7.2	6.6	6.1	5.5	4.9	4.3
82.5°	12.9	12.3	11.7	11.1	10.5	9.9	9.3	8.7	8.0	7.3	6.5
80°	19.0	17.8	16.5	15.3	14.0	12.7	11.8	11.0	10.1	9.2	8.3
77.5°	26.3	24.2	22.1	20.4	18.7	17.1	15.3	13.6	12.2	11.0	9.9
75°	35.1	32.2	29.7	27.0	24.2	21.5	19.4	17.3	15.2	13.0	11.5
72.5°	51.8	46.0	39.9	34.1	30.8	27.5	24.1	21.0	18.5	16.0	13.4
70°	89.6	66.7	54.8	47.7	40.4	33.6	29.8	25.8	21.8	18.9	16.0
67.5°	146.0	120.2	93.5	65.9	53.3	44.8	36.2	30.9	26.4	21.8	18.5
65°	256.0	199.1	143.4	112.8	81.4	56.7	47.1	37.3	30.9	25.8	21.0
62.5°	377.4	302.5	237.8	171.2	124.5	89.2	57.8	47.1	36.2	29.8	24.1
60°	513.5	427.0	337.8	261.2	186.8	128.4	89.2	56.7	44.8	33.6	27.5
57.5°	644.7	553.2	457.0	357.7	269.0	186.8	124.5	81.4	53.3	40.4	30.8
55°	779.8	674.4	572.9	467.0	357.7	261.2	171.2	112.8	65.9	47.7	34.1
52.5°	939.0	805.1	684.3	572.9	457.0	337.8	237.8	143.4	93.5	54.8	39.9
50°	1096.4	951.9	805.1	674.4	553.2	427.0	302.5	199.1	120.2	66.7	46.0
47.5°	1251.5	1096.4	939.0	779.8	644.7	513.5	377.4	256.0	146.0	89.6	51.8
45°	1399.4	1238.1	1070.0	900.7	733.2	595.6	453.9	310.9	194.8	111.7	57.4
42.5°	1541.8	1373.0	1198.2	1017.5	837.4	674.1	527.5	375.5	242.1	132.9	70.4
40°	1709.0	1501.8	1320.7	1132.1	941.2	750.0	596.5	439.4	287.4	159.6	88.1
37.5°	1872.9	1642.3	1435.9	1241.9	1041.0	841.0	662.1	500.3	333.7	197.8	105.0
35°	2036.2	1788.8	1545.8	1344.9	1137.3	927.6	724.4	557.5	385.4	234.0	120.9
32.5°	2192.3	1929.9	1672.8	1441.4	1228.5	1009.4	792.7	610.6	434.2	268.1	135.9
30°	2321.2	2067.1	1794.6	1532.2	1313.6	1087.8	862.5	660.4	479.8	300.0	153.1
27.5°	2436.6	2195.9	1909.8	1631.9	1391.6	1160.9	927.6	706.7	522.3	332.5	178.9
25°	2539.0	2300.9	2020.3	1729.3	1463.8	1228.5	987.7	750.0	560.8	367.1	202.7
22.5°	2621.1	2392.5	2121.9	1818.8	1529.9	1290.4	1043.3	799.4	595.6	398.6	224.3
20°	2695.8	2475.7	2214.0	1900.5	1598.0	1344.9	1093.9	844.1	627.1	427.0	243.9
17.5°	2818.6	2544.1	2285.0	1976.0	1664.1	1393.5	1139.1	883.8	655.0	452.3	261.2
15°	3179.2	2598.3	2345.0	2042.1	1721.9	1435.9	1178.5	918.5	679.4	474.3	276.3
12.5°	3488.1	2644.7	2396.4	2098.6	1771.2	1472.1	1212.0	948.0	700.1	493.0	289.2
10°	3743.5	2683.0	2438.7	2145.1	1811.8	1501.8	1239.6	972.3	717.2	508.4	299.7
7.5°	3944.0	2713.0	2471.9	2181.6	1843.6	1525.1	1261.2	991.2	730.5	520.4	308.0
5°	4088.0	2734.6	2495.7	2207.7	1866.4	1541.8	1276.7	1004.8	740.1	529.0	313.9
2.5°	4174.9	2747.6	2510.0	2223.4	1880.1	1551.8	1286.0	1013.0	745.8	534.2	317.4
0°	4203.9	2751.9	2514.8	2228.7	1884.7	1555.2	1289.1	1015.7	747.7	535.9	318.6
-2.5°	4174.9	2747.6	2510.0	2223.4	1880.1	1551.8	1286.0	1013.0	745.8	534.2	317.4
-5°	4088.0	2734.6	2495.7	2207.7	1866.4	1541.8	1276.7	1004.8	740.1	529.0	313.9
-7.5°	3944.0	2713.0	2471.9	2181.6	1843.6	1525.1	1261.2	991.2	730.5	520.4	308.0
-10°	3743.5	2683.0	2438.7	2145.1	1811.8	1501.8	1239.6	972.3	717.2	508.4	299.7
-12.5°	3488.1	2644.7	2396.4	2098.6	1771.2	1472.1	1212.0	948.0	700.1	493.0	289.2
-15°	3179.2	2598.3	2345.0	2042.1	1721.9	1435.9	1178.5	918.5	679.4	474.3	276.3
-17.5°	2818.6	2544.1	2285.0	1976.0	1664.1	1393.5	1139.1	883.8	655.0	452.3	261.2
-20°	2695.8	2475.7	2214.0	1900.5	1598.0	1344.9	1093.9	844.1	627.1	427.0	243.9



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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°	2621.1	2392.5	2121.9	1818.8	1529.9	1290.4	1043.3	799.4	595.6	398.6	224.3
-25°	2539.0	2300.9	2020.3	1729.3	1463.8	1228.5	987.7	750.0	560.8	367.1	202.7
-27.5°	2436.6	2195.9	1909.8	1631.9	1391.6	1160.9	927.6	706.7	522.3	332.5	178.9
-30°	2321.2	2067.1	1794.6	1532.2	1313.6	1087.8	862.5	660.4	479.8	300.0	153.1
-32.5°	2192.3	1929.9	1672.8	1441.4	1228.5	1009.4	792.7	610.6	434.2	268.1	135.9
-35°	2036.2	1788.8	1545.8	1344.9	1137.3	927.6	724.4	557.5	385.4	234.0	120.9
-37.5°	1872.9	1642.3	1435.9	1241.9	1041.0	841.0	662.1	500.3	333.7	197.8	105.0
-40°	1709.0	1501.8	1320.7	1132.1	941.2	750.0	596.5	439.4	287.4	159.6	88.1
-42.5°	1541.8	1373.0	1198.2	1017.5	837.4	674.1	527.5	375.5	242.1	132.9	70.4
-45°	1399.4	1238.1	1070.0	900.7	733.2	595.6	453.9	310.9	194.8	111.7	57.4
-47.5°	1251.5	1096.4	939.0	779.8	644.7	513.5	377.4	256.0	146.0	89.6	51.8
-50°	1096.4	951.9	805.1	674.4	553.2	427.0	302.5	199.1	120.2	66.7	46.0
-52.5°	939.0	805.1	684.3	572.9	457.0	337.8	237.8	143.4	93.5	54.8	39.9
-55°	779.8	674.4	572.9	467.0	357.7	261.2	171.2	112.8	65.9	47.7	34.1
-57.5°	644.7	553.2	457.0	357.7	269.0	186.8	124.5	81.4	53.3	40.4	30.8
-60°	513.5	427.0	337.8	261.2	186.8	128.4	89.2	56.7	44.8	33.6	27.5
-62.5°	377.4	302.5	237.8	171.2	124.5	89.2	57.8	47.1	36.2	29.8	24.1
-65°	256.0	199.1	143.4	112.8	81.4	56.7	47.1	37.3	30.9	25.8	21.0
-67.5°	146.0	120.2	93.5	65.9	53.3	44.8	36.2	30.9	26.4	21.8	18.5
-70°	89.6	66.7	54.8	47.7	40.4	33.6	29.8	25.8	21.8	18.9	16.0
-72.5°	51.8	46.0	39.9	34.1	30.8	27.5	24.1	21.0	18.5	16.0	13.4
-75°	35.1	32.2	29.7	27.0	24.2	21.5	19.4	17.3	15.2	13.0	11.5
-77.5°	26.3	24.2	22.1	20.4	18.7	17.1	15.3	13.6	12.2	11.0	9.9
-80°	19.0	17.8	16.5	15.3	14.0	12.7	11.8	11.0	10.1	9.2	8.3
-82.5°	12.9	12.3	11.7	11.1	10.5	9.9	9.3	8.7	8.0	7.3	6.5
-85°	9.1	8.8	8.4	8.0	7.6	7.2	6.6	6.1	5.5	4.9	4.3
-87.5°	4.9	4.6	4.4	4.1	3.9	3.6	3.3	3.0	2.8	2.5	2.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.6	1.2	0.9	0.6	0.3	0.0
85°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
82.5°	5.6	4.7	3.7	2.8	1.9	0.9	0.0
80°	7.4	6.2	5.0	3.7	2.5	1.2	0.0
77.5°	8.8	7.6	6.2	4.7	3.1	1.6	0.0
75°	10.2	8.8	7.4	5.6	3.7	1.9	0.0
72.5°	11.5	9.9	8.3	6.5	4.3	2.2	0.0
70°	13.0	11.0	9.2	7.3	4.9	2.5	0.0
67.5°	15.2	12.2	10.1	8.0	5.5	2.8	0.0
65°	17.3	13.6	11.0	8.7	6.1	3.0	0.0
62.5°	19.4	15.3	11.8	9.3	6.6	3.3	0.0
60°	21.5	17.1	12.7	9.9	7.2	3.6	0.0
57.5°	24.2	18.7	14.0	10.5	7.6	3.9	0.0
55°	27.0	20.4	15.3	11.1	8.0	4.1	0.0
52.5°	29.7	22.1	16.5	11.7	8.4	4.4	0.0
50°	32.2	24.2	17.8	12.3	8.8	4.6	0.0
47.5°	35.1	26.3	19.0	12.9	9.1	4.9	0.0
45°	39.9	28.3	20.1	13.8	9.5	5.1	0.0
42.5°	44.5	30.2	21.2	14.6	9.8	5.3	0.0
40°	48.9	32.1	22.4	15.4	10.1	5.5	0.0
37.5°	53.1	33.8	23.8	16.1	10.4	5.7	0.0
35°	57.1	36.5	25.1	16.8	10.7	5.9	0.0
32.5°	63.5	39.6	26.4	17.5	11.0	6.1	0.0
30°	75.4	42.5	27.5	18.1	11.2	6.2	0.0
27.5°	86.5	45.2	28.6	18.6	11.5	6.4	0.0
25°	96.8	47.7	29.6	19.2	11.7	6.5	0.0
22.5°	106.1	49.9	30.5	19.6	11.9	6.7	0.0
20°	114.5	52.0	31.3	20.1	12.0	6.8	0.0
17.5°	121.9	53.8	32.0	20.4	12.2	6.9	0.0
15°	128.4	55.3	32.7	20.8	12.3	7.0	0.0
12.5°	134.0	56.7	33.2	21.1	12.4	7.0	0.0
10°	138.5	57.7	33.6	21.3	12.5	7.1	0.0
7.5°	142.0	58.6	34.0	21.5	12.6	7.1	0.0
5°	144.6	59.2	34.2	21.6	12.7	7.2	0.0
2.5°	146.1	59.6	34.4	21.7	12.7	7.2	0.0
0°	146.6	59.7	34.4	21.7	12.7	7.2	0.0
-2.5°	146.1	59.6	34.4	21.7	12.7	7.2	0.0
-5°	144.6	59.2	34.2	21.6	12.7	7.2	0.0
-7.5°	142.0	58.6	34.0	21.5	12.6	7.1	0.0
-10°	138.5	57.7	33.6	21.3	12.5	7.1	0.0
-12.5°	134.0	56.7	33.2	21.1	12.4	7.0	0.0
-15°	128.4	55.3	32.7	20.8	12.3	7.0	0.0
-17.5°	121.9	53.8	32.0	20.4	12.2	6.9	0.0
-20°	114.5	52.0	31.3	20.1	12.0	6.8	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	106.1	49.9	30.5	19.6	11.9	6.7	0.0
-25°	96.8	47.7	29.6	19.2	11.7	6.5	0.0
-27.5°	86.5	45.2	28.6	18.6	11.5	6.4	0.0
-30°	75.4	42.5	27.5	18.1	11.2	6.2	0.0
-32.5°	63.5	39.6	26.4	17.5	11.0	6.1	0.0
-35°	57.1	36.5	25.1	16.8	10.7	5.9	0.0
-37.5°	53.1	33.8	23.8	16.1	10.4	5.7	0.0
-40°	48.9	32.1	22.4	15.4	10.1	5.5	0.0
-42.5°	44.5	30.2	21.2	14.6	9.8	5.3	0.0
-45°	39.9	28.3	20.1	13.8	9.5	5.1	0.0
-47.5°	35.1	26.3	19.0	12.9	9.1	4.9	0.0
-50°	32.2	24.2	17.8	12.3	8.8	4.6	0.0
-52.5°	29.7	22.1	16.5	11.7	8.4	4.4	0.0
-55°	27.0	20.4	15.3	11.1	8.0	4.1	0.0
-57.5°	24.2	18.7	14.0	10.5	7.6	3.9	0.0
-60°	21.5	17.1	12.7	9.9	7.2	3.6	0.0
-62.5°	19.4	15.3	11.8	9.3	6.6	3.3	0.0
-65°	17.3	13.6	11.0	8.7	6.1	3.0	0.0
-67.5°	15.2	12.2	10.1	8.0	5.5	2.8	0.0
-70°	13.0	11.0	9.2	7.3	4.9	2.5	0.0
-72.5°	11.5	9.9	8.3	6.5	4.3	2.2	0.0
-75°	10.2	8.8	7.4	5.6	3.7	1.9	0.0
-77.5°	8.8	7.6	6.2	4.7	3.1	1.6	0.0
-80°	7.4	6.2	5.0	3.7	2.5	1.2	0.0
-82.5°	5.6	4.7	3.7	2.8	1.9	0.9	0.0
-85°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
-87.5°	1.9	1.6	1.2	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

