

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: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-3S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

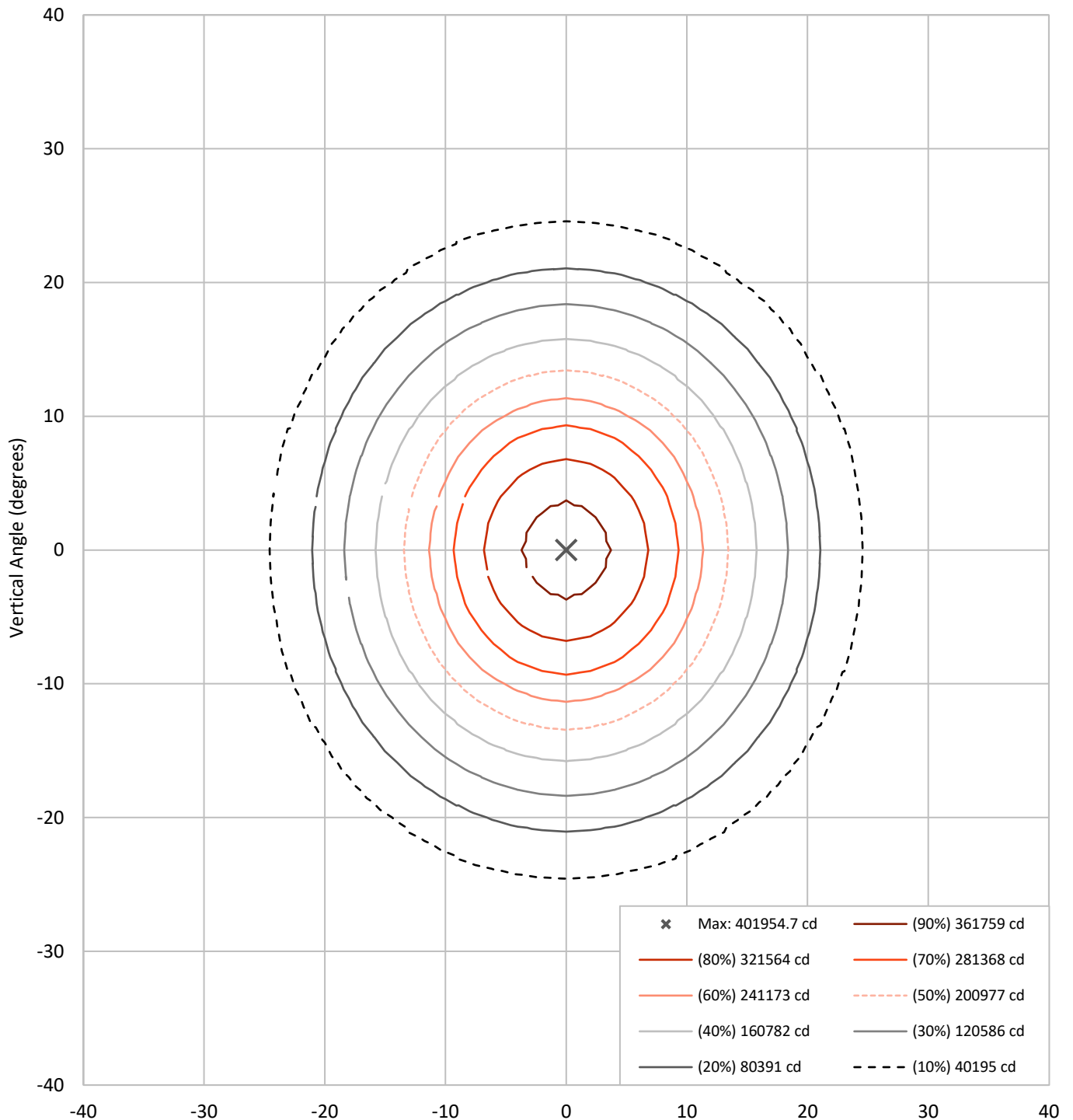
Test Method: LM-79-08  
Report Number: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-70-3S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 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:	108562.7 lumens	Max Intensity:	401954.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	155.6 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:	47071.1 lumens	Field Lumens:	90117.6 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





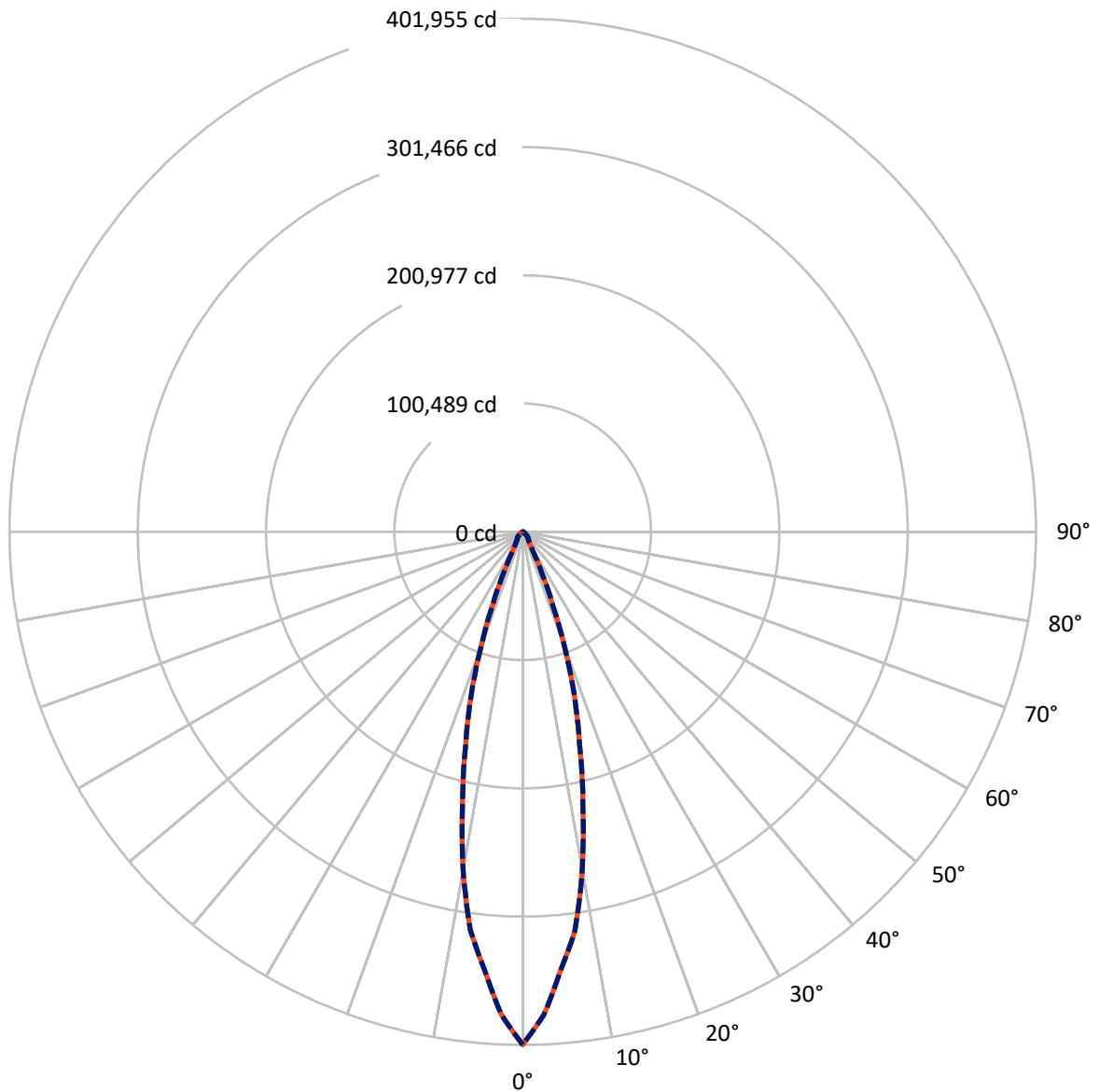
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### Lumen Table

90	0.1	1.0	3.8	9.8	13.1	9.8	3.8	1.0	0.1										
80	0.1	1.0	3.8	9.8	13.1	9.8	3.8	1.0	0.1										
70	0.4	0.6	2.4	7.2	14.2	21.5	27.6	30.9	30.9	27.6	21.5	14.2	7.2	2.4	0.6	0.4			
60		1.8	8.4	19.8	33.9	48.4	60.1	66.4	66.4	60.1	48.4	33.9	19.8	8.4	1.8				
50	1.3	4.5	16.2	34.4	56.8	89.5	128.1	150.3	150.3	128.1	89.5	56.8	34.4	16.2	4.5	1.3			
40		7.5	24.0	49.2	100.3	165.3	212.6	249.7	249.7	212.6	165.3	100.3	49.2	24.0	7.5				
30	2.9	10.3	31.0	70.4	149.6	236.9	547.7	1126.4	1126.4	547.7	236.9	149.6	70.4	31.0	10.3	2.9			
20		12.4	36.1	94.8	180.9	517.0	2396.0	4798.1	4798.1	2396.0	517.0	180.9	94.8	36.1	12.4				
10	3.7	13.5	38.6	107.8	206.4	1036.9	4666.8	9203.8	9203.8	4666.8	1036.9	206.4	107.8	38.6	13.5	3.7			
0		13.5	38.6	107.8	206.4	1036.9	4666.8	9203.8	9203.8	4666.8	1036.9	206.4	107.8	38.6	13.5				
-10	2.9	12.4	36.1	94.8	180.9	517.0	2396.0	4798.1	4798.1	2396.0	517.0	180.9	94.8	36.1	12.4	2.9			
-20		10.3	31.0	70.4	149.6	236.9	547.7	1126.4	1126.4	547.7	236.9	149.6	70.4	31.0	10.3				
-30	1.3	7.5	24.0	49.2	100.3	165.3	212.6	249.7	249.7	212.6	165.3	100.3	49.2	24.0	7.5	1.3			
-40		4.5	16.2	34.4	56.8	89.5	128.1	150.3	150.3	128.1	89.5	56.8	34.4	16.2	4.5				
-50	0.4	1.8	8.4	19.8	33.9	48.4	60.1	66.4	66.4	60.1	48.4	33.9	19.8	8.4	1.8	0.4			
-60		0.6	2.4	7.2	14.2	21.5	27.6	30.9	30.9	27.6	21.5	14.2	7.2	2.4	0.6				
-70	0.1	0.6	2.4	7.2	14.2	21.5	27.6	30.9	30.9	27.6	21.5	14.2	7.2	2.4	0.6	0.1			
-80		0.1	1.0	3.8	9.8	13.1	9.8	3.8	1.0	0.1									
-90	0.1	1.0	3.8	9.8	13.1	9.8	3.8	1.0	0.1										

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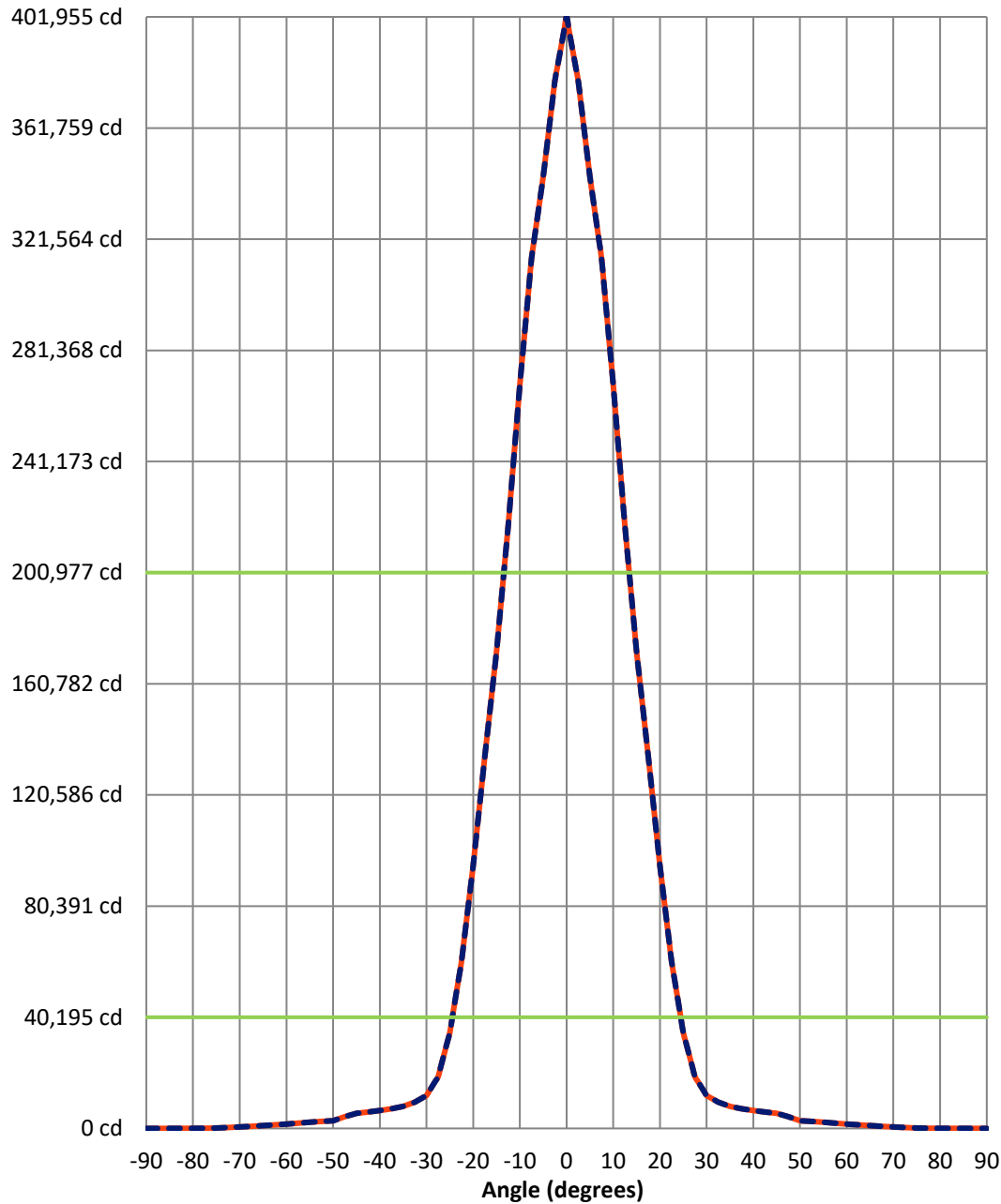
### Luminous Intensity Polar Plot



— 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: 47071.1  
Efficiency: 43.4%

**Field:**  
H Angle: 48.9°  
V Angle: 48.9°  
Lumens: 90117.6  
Efficiency: 83.0%

**Spill:**  
Lumens: 18445  
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	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
85°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.4	8.1	8.8
80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.4	9.3	10.2	11.1
77.5°	0.0	1.6	3.2	4.7	6.3	7.7	8.9	10.0	11.1	12.3	13.7
75°	0.0	1.9	3.8	5.7	7.5	8.9	10.3	11.6	13.1	15.3	17.5
72.5°	0.0	2.2	4.4	6.6	8.4	10.0	11.6	13.5	16.1	18.7	21.2
70°	0.0	2.5	5.0	7.4	9.3	11.1	13.1	16.1	19.1	22.0	26.1
67.5°	0.0	2.8	5.6	8.1	10.2	12.3	15.3	18.7	22.0	26.6	31.2
65°	0.0	3.1	6.2	8.8	11.1	13.7	17.5	21.2	26.1	31.2	37.7
62.5°	0.0	3.4	6.7	9.4	11.9	15.5	19.6	24.4	30.0	36.5	47.5
60°	0.0	3.6	7.3	10.0	12.8	17.2	21.7	27.8	33.9	45.3	57.2
57.5°	0.0	3.9	7.7	10.6	14.1	18.9	24.4	31.1	40.7	53.8	82.2
55°	0.0	4.2	8.1	11.2	15.4	20.6	27.2	34.4	48.1	66.6	113.9
52.5°	0.0	4.4	8.5	11.8	16.7	22.3	29.9	40.3	55.4	94.4	144.8
50°	0.0	4.7	8.9	12.4	17.9	24.4	32.5	46.4	67.3	121.3	200.9
47.5°	0.0	4.9	9.2	13.0	19.1	26.5	35.4	52.3	90.5	147.4	258.3
45°	0.0	5.2	9.6	13.9	20.3	28.6	40.3	58.0	112.8	196.6	313.7
42.5°	0.0	5.4	9.9	14.7	21.4	30.5	44.9	71.1	134.2	244.3	378.9
40°	0.0	5.6	10.2	15.5	22.6	32.4	49.4	89.0	161.1	290.0	443.3
37.5°	0.0	5.8	10.5	16.2	24.0	34.1	53.6	106.0	199.6	336.8	504.7
35°	0.0	6.0	10.8	16.9	25.4	36.9	57.6	122.0	236.1	388.9	562.5
32.5°	0.0	6.2	11.1	17.6	26.6	40.0	64.1	137.2	270.5	438.1	616.1
30°	0.0	6.3	11.3	18.2	27.8	42.9	76.2	154.6	302.7	484.1	666.3
27.5°	0.0	6.5	11.6	18.8	28.9	45.6	87.4	180.6	335.6	526.9	713.1
25°	0.0	6.6	11.8	19.3	29.9	48.1	97.7	204.6	370.4	565.8	756.8
22.5°	0.0	6.7	12.0	19.8	30.8	50.4	107.1	226.4	402.2	601.0	806.7
20°	0.0	6.9	12.1	20.2	31.6	52.5	115.6	246.1	430.9	632.7	851.7
17.5°	0.0	7.0	12.3	20.6	32.3	54.3	123.1	263.6	456.3	660.9	891.8
15°	0.0	7.1	12.4	21.0	32.9	55.9	129.7	278.9	478.5	685.5	926.7
12.5°	0.0	7.1	12.5	21.2	33.5	57.2	135.2	291.8	497.4	706.5	956.5
10°	0.0	7.2	12.6	21.5	33.9	58.3	139.8	302.5	512.9	723.7	981.0
7.5°	0.0	7.2	12.7	21.7	34.3	59.2	143.4	310.8	525.1	737.1	1000.1
5°	0.0	7.3	12.8	21.8	34.5	59.8	146.0	316.7	533.7	746.8	1013.8
2.5°	0.0	7.3	12.8	21.9	34.7	60.2	147.5	320.3	539.0	752.6	1022.1
0°	0.0	7.3	12.8	21.9	34.7	60.2	147.5	320.3	539.0	752.6	1022.1
-2.5°	0.0	7.3	12.8	21.9	34.7	60.2	147.5	320.3	539.0	752.6	1022.1
-5°	0.0	7.3	12.8	21.8	34.5	59.8	146.0	316.7	533.7	746.8	1013.8
-7.5°	0.0	7.2	12.7	21.7	34.3	59.2	143.4	310.8	525.1	737.1	1000.1
-10°	0.0	7.2	12.6	21.5	33.9	58.3	139.8	302.5	512.9	723.7	981.0
-12.5°	0.0	7.1	12.5	21.2	33.5	57.2	135.2	291.8	497.4	706.5	956.5
-15°	0.0	7.1	12.4	21.0	32.9	55.9	129.7	278.9	478.5	685.5	926.7
-17.5°	0.0	7.0	12.3	20.6	32.3	54.3	123.1	263.6	456.3	660.9	891.8
-20°	0.0	6.9	12.1	20.2	31.6	52.5	115.6	246.1	430.9	632.7	851.7



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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°	0.0	6.7	12.0	19.8	30.8	50.4	107.1	226.4	402.2	601.0	806.7
-25°	0.0	6.6	11.8	19.3	29.9	48.1	97.7	204.6	370.4	565.8	756.8
-27.5°	0.0	6.5	11.6	18.8	28.9	45.6	87.4	180.6	335.6	526.9	713.1
-30°	0.0	6.3	11.3	18.2	27.8	42.9	76.2	154.6	302.7	484.1	666.3
-32.5°	0.0	6.2	11.1	17.6	26.6	40.0	64.1	137.2	270.5	438.1	616.1
-35°	0.0	6.0	10.8	16.9	25.4	36.9	57.6	122.0	236.1	388.9	562.5
-37.5°	0.0	5.8	10.5	16.2	24.0	34.1	53.6	106.0	199.6	336.8	504.7
-40°	0.0	5.6	10.2	15.5	22.6	32.4	49.4	89.0	161.1	290.0	443.3
-42.5°	0.0	5.4	9.9	14.7	21.4	30.5	44.9	71.1	134.2	244.3	378.9
-45°	0.0	5.2	9.6	13.9	20.3	28.6	40.3	58.0	112.8	196.6	313.7
-47.5°	0.0	4.9	9.2	13.0	19.1	26.5	35.4	52.3	90.5	147.4	258.3
-50°	0.0	4.7	8.9	12.4	17.9	24.4	32.5	46.4	67.3	121.3	200.9
-52.5°	0.0	4.4	8.5	11.8	16.7	22.3	29.9	40.3	55.4	94.4	144.8
-55°	0.0	4.2	8.1	11.2	15.4	20.6	27.2	34.4	48.1	66.6	113.9
-57.5°	0.0	3.9	7.7	10.6	14.1	18.9	24.4	31.1	40.7	53.8	82.2
-60°	0.0	3.6	7.3	10.0	12.8	17.2	21.7	27.8	33.9	45.3	57.2
-62.5°	0.0	3.4	6.7	9.4	11.9	15.5	19.6	24.4	30.0	36.5	47.5
-65°	0.0	3.1	6.2	8.8	11.1	13.7	17.5	21.2	26.1	31.2	37.7
-67.5°	0.0	2.8	5.6	8.1	10.2	12.3	15.3	18.7	22.0	26.6	31.2
-70°	0.0	2.5	5.0	7.4	9.3	11.1	13.1	16.1	19.1	22.0	26.1
-72.5°	0.0	2.2	4.4	6.6	8.4	10.0	11.6	13.5	16.1	18.7	21.2
-75°	0.0	1.9	3.8	5.7	7.5	8.9	10.3	11.6	13.1	15.3	17.5
-77.5°	0.0	1.6	3.2	4.7	6.3	7.7	8.9	10.0	11.1	12.3	13.7
-80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.4	9.3	10.2	11.1
-82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.4	8.1	8.8
-85°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
-87.5°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-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):**

	-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°	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
85°	6.7	7.3	7.7	8.1	8.5	8.9	9.2	9.6	9.9	10.2	10.5
82.5°	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.9	14.7	15.5	16.2
80°	11.9	12.8	14.1	15.4	16.7	17.9	19.1	20.3	21.4	22.6	24.0
77.5°	15.5	17.2	18.9	20.6	22.3	24.4	26.5	28.6	30.5	32.4	34.1
75°	19.6	21.7	24.4	27.2	29.9	32.5	35.4	40.3	44.9	49.4	53.6
72.5°	24.4	27.8	31.1	34.4	40.3	46.4	52.3	58.0	71.1	89.0	106.0
70°	30.0	33.9	40.7	48.1	55.4	67.3	90.5	112.8	134.2	161.1	199.6
67.5°	36.5	45.3	53.8	66.6	94.4	121.3	147.4	196.6	244.3	290.0	336.8
65°	47.5	57.2	82.2	113.9	144.8	200.9	258.3	313.7	378.9	443.3	504.7
62.5°	58.4	90.1	125.7	172.8	240.0	305.3	380.9	458.0	532.2	601.8	668.1
60°	90.1	129.7	188.5	263.6	340.9	430.9	518.1	601.0	680.2	756.8	848.6
57.5°	125.7	188.5	271.5	360.9	461.1	558.2	650.5	739.9	845.0	949.7	1050.3
55°	172.8	263.6	360.9	471.2	578.0	680.5	786.8	908.8	1026.7	1142.3	1253.0
52.5°	240.0	340.9	461.1	578.0	690.5	812.4	947.5	1079.6	1208.9	1332.6	1448.8
50°	305.3	430.9	558.2	680.5	812.4	960.4	1106.3	1249.3	1385.4	1515.4	1657.1
47.5°	380.9	518.1	650.5	786.8	947.5	1106.3	1262.8	1412.0	1555.7	1724.4	1889.8
45°	458.0	601.0	739.9	908.8	1079.6	1249.3	1412.0	1569.2	1758.3	1943.0	2127.2
42.5°	532.2	680.2	845.0	1026.7	1208.9	1385.4	1555.7	1758.3	1961.1	2163.8	2340.9
40°	601.8	756.8	949.7	1142.3	1332.6	1515.4	1724.4	1943.0	2163.8	2356.4	2528.9
37.5°	668.1	848.6	1050.3	1253.0	1448.8	1657.1	1889.8	2127.2	2340.9	2528.9	2681.6
35°	731.0	935.9	1147.5	1357.0	1559.7	1804.9	2054.6	2294.5	2497.3	2668.2	3088.7
32.5°	799.8	1018.5	1239.6	1454.3	1687.9	1947.3	2212.1	2434.7	2628.2	2921.1	3947.7
30°	870.3	1097.5	1325.5	1546.0	1810.8	2085.8	2342.1	2562.4	2746.1	3691.4	4675.6
27.5°	935.9	1171.3	1404.1	1646.6	1927.0	2215.7	2458.5	2666.1	3270.0	4388.5	5316.7
25°	996.6	1239.6	1476.9	1744.9	2038.5	2321.6	2561.9	2762.9	3906.8	4951.4	5642.1
22.5°	1052.6	1302.0	1543.7	1835.2	2141.0	2414.0	2644.7	3239.4	4451.4	5459.2	5872.1
20°	1103.8	1357.0	1612.4	1917.6	2234.0	2498.0	2720.1	3738.5	4895.4	5655.5	6092.2
17.5°	1149.3	1406.0	1679.1	1993.8	2305.6	2567.0	2844.0	4186.7	5294.9	5832.6	6295.4
15°	1189.0	1448.8	1737.4	2060.5	2366.1	2621.7	3207.8	4521.7	5530.5	5992.0	6476.7
12.5°	1222.9	1485.3	1787.2	2117.5	2417.9	2668.5	3519.5	4800.8	5654.8	6135.3	6667.5
10°	1250.8	1515.4	1828.2	2164.5	2460.6	2707.2	3777.3	5031.9	5757.8	6254.4	6826.3
7.5°	1272.6	1538.8	1860.2	2201.2	2494.1	2737.4	3979.5	5213.5	5838.9	6348.2	6951.7
5°	1288.2	1555.7	1883.2	2227.6	2518.1	2759.2	4124.9	5344.1	5897.3	6415.9	7042.2
2.5°	1297.6	1565.8	1897.1	2243.5	2532.6	2772.3	4212.5	5422.9	5932.5	6456.7	7097.0
0°	1300.7	1569.2	1901.7	2248.8	2537.4	2776.7	4241.8	5449.2	5944.3	6470.4	7115.3
-2.5°	1297.6	1565.8	1897.1	2243.5	2532.6	2772.3	4212.5	5422.9	5932.5	6456.7	7097.0
-5°	1288.2	1555.7	1883.2	2227.6	2518.1	2759.2	4124.9	5344.1	5897.3	6415.9	7042.2
-7.5°	1272.6	1538.8	1860.2	2201.2	2494.1	2737.4	3979.5	5213.5	5838.9	6348.2	6951.7
-10°	1250.8	1515.4	1828.2	2164.5	2460.6	2707.2	3777.3	5031.9	5757.8	6254.4	6826.3
-12.5°	1222.9	1485.3	1787.2	2117.5	2417.9	2668.5	3519.5	4800.8	5654.8	6135.3	6667.5
-15°	1189.0	1448.8	1737.4	2060.5	2366.1	2621.7	3207.8	4521.7	5530.5	5992.0	6476.7
-17.5°	1149.3	1406.0	1679.1	1993.8	2305.6	2567.0	2844.0	4186.7	5294.9	5832.6	6295.4
-20°	1103.8	1357.0	1612.4	1917.6	2234.0	2498.0	2720.1	3738.5	4895.4	5655.5	6092.2



REPORT NUMBER: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1052.6	1302.0	1543.7	1835.2	2141.0	2414.0	2644.7	3239.4	4451.4	5459.2	5872.1
-25°	996.6	1239.6	1476.9	1744.9	2038.5	2321.6	2561.9	2762.9	3906.8	4951.4	5642.1
-27.5°	935.9	1171.3	1404.1	1646.6	1927.0	2215.7	2458.5	2666.1	3270.0	4388.5	5316.7
-30°	870.3	1097.5	1325.5	1546.0	1810.8	2085.8	2342.1	2562.4	2746.1	3691.4	4675.6
-32.5°	799.8	1018.5	1239.6	1454.3	1687.9	1947.3	2212.1	2434.7	2628.2	2921.1	3947.7
-35°	731.0	935.9	1147.5	1357.0	1559.7	1804.9	2054.6	2294.5	2497.3	2668.2	3088.7
-37.5°	668.1	848.6	1050.3	1253.0	1448.8	1657.1	1889.8	2127.2	2340.9	2528.9	2681.6
-40°	601.8	756.8	949.7	1142.3	1332.6	1515.4	1724.4	1943.0	2163.8	2356.4	2528.9
-42.5°	532.2	680.2	845.0	1026.7	1208.9	1385.4	1555.7	1758.3	1961.1	2163.8	2340.9
-45°	458.0	601.0	739.9	908.8	1079.6	1249.3	1412.0	1569.2	1758.3	1943.0	2127.2
-47.5°	380.9	518.1	650.5	786.8	947.5	1106.3	1262.8	1412.0	1555.7	1724.4	1889.8
-50°	305.3	430.9	558.2	680.5	812.4	960.4	1106.3	1249.3	1385.4	1515.4	1657.1
-52.5°	240.0	340.9	461.1	578.0	690.5	812.4	947.5	1079.6	1208.9	1332.6	1448.8
-55°	172.8	263.6	360.9	471.2	578.0	680.5	786.8	908.8	1026.7	1142.3	1253.0
-57.5°	125.7	188.5	271.5	360.9	461.1	558.2	650.5	739.9	845.0	949.7	1050.3
-60°	90.1	129.7	188.5	263.6	340.9	430.9	518.1	601.0	680.2	756.8	848.6
-62.5°	58.4	90.1	125.7	172.8	240.0	305.3	380.9	458.0	532.2	601.8	668.1
-65°	47.5	57.2	82.2	113.9	144.8	200.9	258.3	313.7	378.9	443.3	504.7
-67.5°	36.5	45.3	53.8	66.6	94.4	121.3	147.4	196.6	244.3	290.0	336.8
-70°	30.0	33.9	40.7	48.1	55.4	67.3	90.5	112.8	134.2	161.1	199.6
-72.5°	24.4	27.8	31.1	34.4	40.3	46.4	52.3	58.0	71.1	89.0	106.0
-75°	19.6	21.7	24.4	27.2	29.9	32.5	35.4	40.3	44.9	49.4	53.6
-77.5°	15.5	17.2	18.9	20.6	22.3	24.4	26.5	28.6	30.5	32.4	34.1
-80°	11.9	12.8	14.1	15.4	16.7	17.9	19.1	20.3	21.4	22.6	24.0
-82.5°	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.9	14.7	15.5	16.2
-85°	6.7	7.3	7.7	8.1	8.5	8.9	9.2	9.6	9.9	10.2	10.5
-87.5°	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
-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°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
85°	10.8	11.1	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6
82.5°	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.2	21.5
80°	25.4	26.6	27.8	28.9	29.9	30.8	31.6	32.3	32.9	33.5	33.9
77.5°	36.9	40.0	42.9	45.6	48.1	50.4	52.5	54.3	55.9	57.2	58.3
75°	57.6	64.1	76.2	87.4	97.7	107.1	115.6	123.1	129.7	135.2	139.8
72.5°	122.0	137.2	154.6	180.6	204.6	226.4	246.1	263.6	278.9	291.8	302.5
70°	236.1	270.5	302.7	335.6	370.4	402.2	430.9	456.3	478.5	497.4	512.9
67.5°	388.9	438.1	484.1	526.9	565.8	601.0	632.7	660.9	685.5	706.5	723.7
65°	562.5	616.1	666.3	713.1	756.8	806.7	851.7	891.8	926.7	956.5	981.0
62.5°	731.0	799.8	870.3	935.9	996.6	1052.6	1103.8	1149.3	1189.0	1222.9	1250.8
60°	935.9	1018.5	1097.5	1171.3	1239.6	1302.0	1357.0	1406.0	1448.8	1485.3	1515.4
57.5°	1147.5	1239.6	1325.5	1404.1	1476.9	1543.7	1612.4	1679.1	1737.4	1787.2	1828.2
55°	1357.0	1454.3	1546.0	1646.6	1744.9	1835.2	1917.6	1993.8	2060.5	2117.5	2164.5
52.5°	1559.7	1687.9	1810.8	1927.0	2038.5	2141.0	2234.0	2305.6	2366.1	2417.9	2460.6
50°	1804.9	1947.3	2085.8	2215.7	2321.6	2414.0	2498.0	2567.0	2621.7	2668.5	2707.2
47.5°	2054.6	2212.1	2342.1	2458.5	2561.9	2644.7	2720.1	2844.0	3207.8	3519.5	3777.3
45°	2294.5	2434.7	2562.4	2666.1	2762.9	3239.4	3738.5	4186.7	4521.7	4800.8	5031.9
42.5°	2497.3	2628.2	2746.1	3270.0	3906.8	4451.4	4895.4	5294.9	5530.5	5654.8	5757.8
40°	2668.2	2921.1	3691.4	4388.5	4951.4	5459.2	5655.5	5832.6	5992.0	6135.3	6254.4
37.5°	3088.7	3947.7	4675.6	5316.7	5642.1	5872.1	6092.2	6295.4	6476.7	6667.5	6826.3
35°	4033.8	4820.7	5486.2	5766.4	6036.2	6298.4	6555.9	6824.9	7064.1	7322.6	7552.4
32.5°	4820.7	5516.8	5829.4	6139.1	6439.1	6776.5	7095.3	7474.5	7818.9	8232.6	8679.5
30°	5486.2	5829.4	6173.8	6519.5	6911.5	7334.6	7789.9	8390.0	9055.7	9714.2	10477.4
27.5°	5766.4	6139.1	6519.5	6957.0	7459.6	7992.7	8865.0	9761.3	10890.3	11880.6	14261.9
25°	6036.2	6439.1	6911.5	7459.6	8109.2	9107.1	10350.1	11703.5	14870.7	17962.8	23128.2
22.5°	6298.4	6776.5	7334.6	7992.7	9107.1	10549.2	12555.0	16730.2	23014.8	30949.4	39623.9
20°	6555.9	7095.3	7789.9	8865.0	10350.1	12555.0	17360.9	26121.6	36562.5	50593.5	63545.9
17.5°	6824.9	7474.5	8390.0	9761.3	11703.5	16730.2	26121.6	39244.4	56280.7	75714.4	93937.7
15°	7064.1	7818.9	9055.7	10890.3	14870.7	23014.8	36562.5	56280.7	79888.2	103980.2	127224.1
12.5°	7322.6	8232.6	9714.2	11880.6	17962.8	30949.4	50593.5	75714.4	103980.2	132869.6	157882.0
10°	7552.4	8679.5	10477.4	14261.9	23128.2	39623.9	63545.9	93937.7	127224.1	157882.0	187720.6
7.5°	7734.2	9034.0	11084.9	16171.6	28071.8	48468.5	76900.6	110943.2	146176.9	180154.7	218307.0
5°	7865.7	9291.1	11526.6	17565.2	31695.5	54989.0	86822.5	123824.7	160372.6	199981.3	243621.0
2.5°	7945.3	9447.0	11795.0	18413.8	33909.1	58989.3	92944.8	131838.7	169310.7	213286.1	262200.8
0°	7972.0	9499.2	11885.0	18698.8	34653.8	60338.1	95015.7	134561.6	172368.3	217875.0	268887.5
-2.5°	7945.3	9447.0	11795.0	18413.8	33909.1	58989.3	92944.8	131838.7	169310.7	213286.1	262200.8
-5°	7865.7	9291.1	11526.6	17565.2	31695.5	54989.0	86822.5	123824.7	160372.6	199981.3	243621.0
-7.5°	7734.2	9034.0	11084.9	16171.6	28071.8	48468.5	76900.6	110943.2	146176.9	180154.7	218307.0
-10°	7552.4	8679.5	10477.4	14261.9	23128.2	39623.9	63545.9	93937.7	127224.1	157882.0	187720.6
-12.5°	7322.6	8232.6	9714.2	11880.6	17962.8	30949.4	50593.5	75714.4	103980.2	132869.6	157882.0
-15°	7064.1	7818.9	9055.7	10890.3	14870.7	23014.8	36562.5	56280.7	79888.2	103980.2	127224.1
-17.5°	6824.9	7474.5	8390.0	9761.3	11703.5	16730.2	26121.6	39244.4	56280.7	75714.4	93937.7
-20°	6555.9	7095.3	7789.9	8865.0	10350.1	12555.0	17360.9	26121.6	36562.5	50593.5	63545.9



REPORT NUMBER: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6298.4	6776.5	7334.6	7992.7	9107.1	10549.2	12555.0	16730.2	23014.8	30949.4	39623.9
-25°	6036.2	6439.1	6911.5	7459.6	8109.2	9107.1	10350.1	11703.5	14870.7	17962.8	23128.2
-27.5°	5766.4	6139.1	6519.5	6957.0	7459.6	7992.7	8865.0	9761.3	10890.3	11880.6	14261.9
-30°	5486.2	5829.4	6173.8	6519.5	6911.5	7334.6	7789.9	8390.0	9055.7	9714.2	10477.4
-32.5°	4820.7	5516.8	5829.4	6139.1	6439.1	6776.5	7095.3	7474.5	7818.9	8232.6	8679.5
-35°	4033.8	4820.7	5486.2	5766.4	6036.2	6298.4	6555.9	6824.9	7064.1	7322.6	7552.4
-37.5°	3088.7	3947.7	4675.6	5316.7	5642.1	5872.1	6092.2	6295.4	6476.7	6667.5	6826.3
-40°	2668.2	2921.1	3691.4	4388.5	4951.4	5459.2	5655.5	5832.6	5992.0	6135.3	6254.4
-42.5°	2497.3	2628.2	2746.1	3270.0	3906.8	4451.4	4895.4	5294.9	5530.5	5654.8	5757.8
-45°	2294.5	2434.7	2562.4	2666.1	2762.9	3239.4	3738.5	4186.7	4521.7	4800.8	5031.9
-47.5°	2054.6	2212.1	2342.1	2458.5	2561.9	2644.7	2720.1	2844.0	3207.8	3519.5	3777.3
-50°	1804.9	1947.3	2085.8	2215.7	2321.6	2414.0	2498.0	2567.0	2621.7	2668.5	2707.2
-52.5°	1559.7	1687.9	1810.8	1927.0	2038.5	2141.0	2234.0	2305.6	2366.1	2417.9	2460.6
-55°	1357.0	1454.3	1546.0	1646.6	1744.9	1835.2	1917.6	1993.8	2060.5	2117.5	2164.5
-57.5°	1147.5	1239.6	1325.5	1404.1	1476.9	1543.7	1612.4	1679.1	1737.4	1787.2	1828.2
-60°	935.9	1018.5	1097.5	1171.3	1239.6	1302.0	1357.0	1406.0	1448.8	1485.3	1515.4
-62.5°	731.0	799.8	870.3	935.9	996.6	1052.6	1103.8	1149.3	1189.0	1222.9	1250.8
-65°	562.5	616.1	666.3	713.1	756.8	806.7	851.7	891.8	926.7	956.5	981.0
-67.5°	388.9	438.1	484.1	526.9	565.8	601.0	632.7	660.9	685.5	706.5	723.7
-70°	236.1	270.5	302.7	335.6	370.4	402.2	430.9	456.3	478.5	497.4	512.9
-72.5°	122.0	137.2	154.6	180.6	204.6	226.4	246.1	263.6	278.9	291.8	302.5
-75°	57.6	64.1	76.2	87.4	97.7	107.1	115.6	123.1	129.7	135.2	139.8
-77.5°	36.9	40.0	42.9	45.6	48.1	50.4	52.5	54.3	55.9	57.2	58.3
-80°	25.4	26.6	27.8	28.9	29.9	30.8	31.6	32.3	32.9	33.5	33.9
-82.5°	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.2	21.5
-85°	10.8	11.1	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6
-87.5°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
-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: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-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°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.0
85°	12.7	12.8	12.8	12.8	12.8	12.8	12.7	12.6	12.5	12.4	12.3
82.5°	21.7	21.8	21.9	21.9	21.9	21.8	21.7	21.5	21.2	21.0	20.6
80°	34.3	34.5	34.7	34.7	34.7	34.5	34.3	33.9	33.5	32.9	32.3
77.5°	59.2	59.8	60.2	60.3	60.2	59.8	59.2	58.3	57.2	55.9	54.3
75°	143.4	146.0	147.5	148.0	147.5	146.0	143.4	139.8	135.2	129.7	123.1
72.5°	310.8	316.7	320.3	321.5	320.3	316.7	310.8	302.5	291.8	278.9	263.6
70°	525.1	533.7	539.0	540.7	539.0	533.7	525.1	512.9	497.4	478.5	456.3
67.5°	737.1	746.8	752.6	754.5	752.6	746.8	737.1	723.7	706.5	685.5	660.9
65°	1000.1	1013.8	1022.1	1024.8	1022.1	1013.8	1000.1	981.0	956.5	926.7	891.8
62.5°	1272.6	1288.2	1297.6	1300.7	1297.6	1288.2	1272.6	1250.8	1222.9	1189.0	1149.3
60°	1538.8	1555.7	1565.8	1569.2	1565.8	1555.7	1538.8	1515.4	1485.3	1448.8	1406.0
57.5°	1860.2	1883.2	1897.1	1901.7	1897.1	1883.2	1860.2	1828.2	1787.2	1737.4	1679.1
55°	2201.2	2227.6	2243.5	2248.8	2243.5	2227.6	2201.2	2164.5	2117.5	2060.5	1993.8
52.5°	2494.1	2518.1	2532.6	2537.4	2532.6	2518.1	2494.1	2460.6	2417.9	2366.1	2305.6
50°	2737.4	2759.2	2772.3	2776.7	2772.3	2759.2	2737.4	2707.2	2668.5	2621.7	2567.0
47.5°	3979.5	4124.9	4212.5	4241.8	4212.5	4124.9	3979.5	3777.3	3519.5	3207.8	2844.0
45°	5213.5	5344.1	5422.9	5449.2	5422.9	5344.1	5213.5	5031.9	4800.8	4521.7	4186.7
42.5°	5838.9	5897.3	5932.5	5944.3	5932.5	5897.3	5838.9	5757.8	5654.8	5530.5	5294.9
40°	6348.2	6415.9	6456.7	6470.4	6456.7	6415.9	6348.2	6254.4	6135.3	5992.0	5832.6
37.5°	6951.7	7042.2	7097.0	7115.3	7097.0	7042.2	6951.7	6826.3	6667.5	6476.7	6295.4
35°	7734.2	7865.7	7945.3	7972.0	7945.3	7865.7	7734.2	7552.4	7322.6	7064.1	6824.9
32.5°	9034.0	9291.1	9447.0	9499.2	9447.0	9291.1	9034.0	8679.5	8232.6	7818.9	7474.5
30°	11084.9	11526.6	11795.0	11885.0	11795.0	11526.6	11084.9	10477.4	9714.2	9055.7	8390.0
27.5°	16171.6	17565.2	18413.8	18698.8	18413.8	17565.2	16171.6	14261.9	11880.6	10890.3	9761.3
25°	28071.8	31695.5	33909.1	34653.8	33909.1	31695.5	28071.8	23128.2	17962.8	14870.7	11703.5
22.5°	48468.5	54989.0	58989.3	60338.1	58989.3	54989.0	48468.5	39623.9	30949.4	23014.8	16730.2
20°	76900.6	86822.5	92944.8	95015.7	92944.8	86822.5	76900.6	63545.9	50593.5	36562.5	26121.6
17.5°	110943.2	123824.7	131838.7	134561.6	131838.7	123824.7	110943.2	93937.7	75714.4	56280.7	39244.4
15°	146176.9	160372.6	169310.7	172368.3	169310.7	160372.6	146176.9	127224.1	103980.2	79888.2	56280.7
12.5°	180154.7	199981.3	213286.1	217875.0	213286.1	199981.3	180154.7	157882.0	132869.6	103980.2	75714.4
10°	218307.0	243621.0	262200.8	268887.5	262200.8	243621.0	218307.0	187720.6	157882.0	127224.1	93937.7
7.5°	255907.9	290081.0	308983.8	314595.9	308983.8	290081.0	255907.9	218307.0	180154.7	146176.9	110943.2
5°	290081.0	320625.2	338109.0	344157.6	338109.0	320625.2	290081.0	243621.0	199981.3	160372.6	123824.7
2.5°	308983.8	338109.0	362378.0	378846.1	362378.0	338109.0	308983.8	262200.8	213286.1	169310.7	131838.7
0°	314595.9	344157.6	378846.1	401954.7	378846.1	344157.6	314595.9	268887.5	217875.0	172368.3	134561.6
-2.5°	308983.8	338109.0	362378.0	378846.1	362378.0	338109.0	308983.8	262200.8	213286.1	169310.7	131838.7
-5°	290081.0	320625.2	338109.0	344157.6	338109.0	320625.2	290081.0	243621.0	199981.3	160372.6	123824.7
-7.5°	255907.9	290081.0	308983.8	314595.9	308983.8	290081.0	255907.9	218307.0	180154.7	146176.9	110943.2
-10°	218307.0	243621.0	262200.8	268887.5	262200.8	243621.0	218307.0	187720.6	157882.0	127224.1	93937.7
-12.5°	180154.7	199981.3	213286.1	217875.0	213286.1	199981.3	180154.7	157882.0	132869.6	103980.2	75714.4
-15°	146176.9	160372.6	169310.7	172368.3	169310.7	160372.6	146176.9	127224.1	103980.2	79888.2	56280.7
-17.5°	110943.2	123824.7	131838.7	134561.6	131838.7	123824.7	110943.2	93937.7	75714.4	56280.7	39244.4
-20°	76900.6	86822.5	92944.8	95015.7	92944.8	86822.5	76900.6	63545.9	50593.5	36562.5	26121.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	48468.5	54989.0	58989.3	60338.1	58989.3	54989.0	48468.5	39623.9	30949.4	23014.8	16730.2
-25°	28071.8	31695.5	33909.1	34653.8	33909.1	31695.5	28071.8	23128.2	17962.8	14870.7	11703.5
-27.5°	16171.6	17565.2	18413.8	18698.8	18413.8	17565.2	16171.6	14261.9	11880.6	10890.3	9761.3
-30°	11084.9	11526.6	11795.0	11885.0	11795.0	11526.6	11084.9	10477.4	9714.2	9055.7	8390.0
-32.5°	9034.0	9291.1	9447.0	9499.2	9447.0	9291.1	9034.0	8679.5	8232.6	7818.9	7474.5
-35°	7734.2	7865.7	7945.3	7972.0	7945.3	7865.7	7734.2	7552.4	7322.6	7064.1	6824.9
-37.5°	6951.7	7042.2	7097.0	7115.3	7097.0	7042.2	6951.7	6826.3	6667.5	6476.7	6295.4
-40°	6348.2	6415.9	6456.7	6470.4	6456.7	6415.9	6348.2	6254.4	6135.3	5992.0	5832.6
-42.5°	5838.9	5897.3	5932.5	5944.3	5932.5	5897.3	5838.9	5757.8	5654.8	5530.5	5294.9
-45°	5213.5	5344.1	5422.9	5449.2	5422.9	5344.1	5213.5	5031.9	4800.8	4521.7	4186.7
-47.5°	3979.5	4124.9	4212.5	4241.8	4212.5	4124.9	3979.5	3777.3	3519.5	3207.8	2844.0
-50°	2737.4	2759.2	2772.3	2776.7	2772.3	2759.2	2737.4	2707.2	2668.5	2621.7	2567.0
-52.5°	2494.1	2518.1	2532.6	2537.4	2532.6	2518.1	2494.1	2460.6	2417.9	2366.1	2305.6
-55°	2201.2	2227.6	2243.5	2248.8	2243.5	2227.6	2201.2	2164.5	2117.5	2060.5	1993.8
-57.5°	1860.2	1883.2	1897.1	1901.7	1897.1	1883.2	1860.2	1828.2	1787.2	1737.4	1679.1
-60°	1538.8	1555.7	1565.8	1569.2	1565.8	1555.7	1538.8	1515.4	1485.3	1448.8	1406.0
-62.5°	1272.6	1288.2	1297.6	1300.7	1297.6	1288.2	1272.6	1250.8	1222.9	1189.0	1149.3
-65°	1000.1	1013.8	1022.1	1024.8	1022.1	1013.8	1000.1	981.0	956.5	926.7	891.8
-67.5°	737.1	746.8	752.6	754.5	752.6	746.8	737.1	723.7	706.5	685.5	660.9
-70°	525.1	533.7	539.0	540.7	539.0	533.7	525.1	512.9	497.4	478.5	456.3
-72.5°	310.8	316.7	320.3	321.5	320.3	316.7	310.8	302.5	291.8	278.9	263.6
-75°	143.4	146.0	147.5	148.0	147.5	146.0	143.4	139.8	135.2	129.7	123.1
-77.5°	59.2	59.8	60.2	60.3	60.2	59.8	59.2	58.3	57.2	55.9	54.3
-80°	34.3	34.5	34.7	34.7	34.7	34.5	34.3	33.9	33.5	32.9	32.3
-82.5°	21.7	21.8	21.9	21.9	21.9	21.8	21.7	21.5	21.2	21.0	20.6
-85°	12.7	12.8	12.8	12.8	12.8	12.8	12.7	12.6	12.5	12.4	12.3
-87.5°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.0
-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):**

	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°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
85°	12.1	12.0	11.8	11.6	11.3	11.1	10.8	10.5	10.2	9.9	9.6
82.5°	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7	13.9
80°	31.6	30.8	29.9	28.9	27.8	26.6	25.4	24.0	22.6	21.4	20.3
77.5°	52.5	50.4	48.1	45.6	42.9	40.0	36.9	34.1	32.4	30.5	28.6
75°	115.6	107.1	97.7	87.4	76.2	64.1	57.6	53.6	49.4	44.9	40.3
72.5°	246.1	226.4	204.6	180.6	154.6	137.2	122.0	106.0	89.0	71.1	58.0
70°	430.9	402.2	370.4	335.6	302.7	270.5	236.1	199.6	161.1	134.2	112.8
67.5°	632.7	601.0	565.8	526.9	484.1	438.1	388.9	336.8	290.0	244.3	196.6
65°	851.7	806.7	756.8	713.1	666.3	616.1	562.5	504.7	443.3	378.9	313.7
62.5°	1103.8	1052.6	996.6	935.9	870.3	799.8	731.0	668.1	601.8	532.2	458.0
60°	1357.0	1302.0	1239.6	1171.3	1097.5	1018.5	935.9	848.6	756.8	680.2	601.0
57.5°	1612.4	1543.7	1476.9	1404.1	1325.5	1239.6	1147.5	1050.3	949.7	845.0	739.9
55°	1917.6	1835.2	1744.9	1646.6	1546.0	1454.3	1357.0	1253.0	1142.3	1026.7	908.8
52.5°	2234.0	2141.0	2038.5	1927.0	1810.8	1687.9	1559.7	1448.8	1332.6	1208.9	1079.6
50°	2498.0	2414.0	2321.6	2215.7	2085.8	1947.3	1804.9	1657.1	1515.4	1385.4	1249.3
47.5°	2720.1	2644.7	2561.9	2458.5	2342.1	2212.1	2054.6	1889.8	1724.4	1555.7	1412.0
45°	3738.5	3239.4	2762.9	2666.1	2562.4	2434.7	2294.5	2127.2	1943.0	1758.3	1569.2
42.5°	4895.4	4451.4	3906.8	3270.0	2746.1	2628.2	2497.3	2340.9	2163.8	1961.1	1758.3
40°	5655.5	5459.2	4951.4	4388.5	3691.4	2921.1	2668.2	2528.9	2356.4	2163.8	1943.0
37.5°	6092.2	5872.1	5642.1	5316.7	4675.6	3947.7	3088.7	2681.6	2528.9	2340.9	2127.2
35°	6555.9	6298.4	6036.2	5766.4	5486.2	4820.7	4033.8	3088.7	2668.2	2497.3	2294.5
32.5°	7095.3	6776.5	6439.1	6139.1	5829.4	5516.8	4820.7	3947.7	2921.1	2628.2	2434.7
30°	7789.9	7334.6	6911.5	6519.5	6173.8	5829.4	5486.2	4675.6	3691.4	2746.1	2562.4
27.5°	8865.0	7992.7	7459.6	6957.0	6519.5	6139.1	5766.4	5316.7	4388.5	3270.0	2666.1
25°	10350.1	9107.1	8109.2	7459.6	6911.5	6439.1	6036.2	5642.1	4951.4	3906.8	2762.9
22.5°	12555.0	10549.2	9107.1	7992.7	7334.6	6776.5	6298.4	5872.1	5459.2	4451.4	3239.4
20°	17360.9	12555.0	10350.1	8865.0	7789.9	7095.3	6555.9	6092.2	5655.5	4895.4	3738.5
17.5°	26121.6	16730.2	11703.5	9761.3	8390.0	7474.5	6824.9	6295.4	5832.6	5294.9	4186.7
15°	36562.5	23014.8	14870.7	10890.3	9055.7	7818.9	7064.1	6476.7	5992.0	5530.5	4521.7
12.5°	50593.5	30949.4	17962.8	11880.6	9714.2	8232.6	7322.6	6667.5	6135.3	5654.8	4800.8
10°	63545.9	39623.9	23128.2	14261.9	10477.4	8679.5	7552.4	6826.3	6254.4	5757.8	5031.9
7.5°	76900.6	48468.5	28071.8	16171.6	11084.9	9034.0	7734.2	6951.7	6348.2	5838.9	5213.5
5°	86822.5	54989.0	31695.5	17565.2	11526.6	9291.1	7865.7	7042.2	6415.9	5897.3	5344.1
2.5°	92944.8	58989.3	33909.1	18413.8	11795.0	9447.0	7945.3	7097.0	6456.7	5932.5	5422.9
0°	95015.7	60338.1	34653.8	18698.8	11885.0	9499.2	7972.0	7115.3	6470.4	5944.3	5449.2
-2.5°	92944.8	58989.3	33909.1	18413.8	11795.0	9447.0	7945.3	7097.0	6456.7	5932.5	5422.9
-5°	86822.5	54989.0	31695.5	17565.2	11526.6	9291.1	7865.7	7042.2	6415.9	5897.3	5344.1
-7.5°	76900.6	48468.5	28071.8	16171.6	11084.9	9034.0	7734.2	6951.7	6348.2	5838.9	5213.5
-10°	63545.9	39623.9	23128.2	14261.9	10477.4	8679.5	7552.4	6826.3	6254.4	5757.8	5031.9
-12.5°	50593.5	30949.4	17962.8	11880.6	9714.2	8232.6	7322.6	6667.5	6135.3	5654.8	4800.8
-15°	36562.5	23014.8	14870.7	10890.3	9055.7	7818.9	7064.1	6476.7	5992.0	5530.5	4521.7
-17.5°	26121.6	16730.2	11703.5	9761.3	8390.0	7474.5	6824.9	6295.4	5832.6	5294.9	4186.7
-20°	17360.9	12555.0	10350.1	8865.0	7789.9	7095.3	6555.9	6092.2	5655.5	4895.4	3738.5



REPORT NUMBER: P701465 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12555.0	10549.2	9107.1	7992.7	7334.6	6776.5	6298.4	5872.1	5459.2	4451.4	3239.4
-25°	10350.1	9107.1	8109.2	7459.6	6911.5	6439.1	6036.2	5642.1	4951.4	3906.8	2762.9
-27.5°	8865.0	7992.7	7459.6	6957.0	6519.5	6139.1	5766.4	5316.7	4388.5	3270.0	2666.1
-30°	7789.9	7334.6	6911.5	6519.5	6173.8	5829.4	5486.2	4675.6	3691.4	2746.1	2562.4
-32.5°	7095.3	6776.5	6439.1	6139.1	5829.4	5516.8	4820.7	3947.7	2921.1	2628.2	2434.7
-35°	6555.9	6298.4	6036.2	5766.4	5486.2	4820.7	4033.8	3088.7	2668.2	2497.3	2294.5
-37.5°	6092.2	5872.1	5642.1	5316.7	4675.6	3947.7	3088.7	2681.6	2528.9	2340.9	2127.2
-40°	5655.5	5459.2	4951.4	4388.5	3691.4	2921.1	2668.2	2528.9	2356.4	2163.8	1943.0
-42.5°	4895.4	4451.4	3906.8	3270.0	2746.1	2628.2	2497.3	2340.9	2163.8	1961.1	1758.3
-45°	3738.5	3239.4	2762.9	2666.1	2562.4	2434.7	2294.5	2127.2	1943.0	1758.3	1569.2
-47.5°	2720.1	2644.7	2561.9	2458.5	2342.1	2212.1	2054.6	1889.8	1724.4	1555.7	1412.0
-50°	2498.0	2414.0	2321.6	2215.7	2085.8	1947.3	1804.9	1657.1	1515.4	1385.4	1249.3
-52.5°	2234.0	2141.0	2038.5	1927.0	1810.8	1687.9	1559.7	1448.8	1332.6	1208.9	1079.6
-55°	1917.6	1835.2	1744.9	1646.6	1546.0	1454.3	1357.0	1253.0	1142.3	1026.7	908.8
-57.5°	1612.4	1543.7	1476.9	1404.1	1325.5	1239.6	1147.5	1050.3	949.7	845.0	739.9
-60°	1357.0	1302.0	1239.6	1171.3	1097.5	1018.5	935.9	848.6	756.8	680.2	601.0
-62.5°	1103.8	1052.6	996.6	935.9	870.3	799.8	731.0	668.1	601.8	532.2	458.0
-65°	851.7	806.7	756.8	713.1	666.3	616.1	562.5	504.7	443.3	378.9	313.7
-67.5°	632.7	601.0	565.8	526.9	484.1	438.1	388.9	336.8	290.0	244.3	196.6
-70°	430.9	402.2	370.4	335.6	302.7	270.5	236.1	199.6	161.1	134.2	112.8
-72.5°	246.1	226.4	204.6	180.6	154.6	137.2	122.0	106.0	89.0	71.1	58.0
-75°	115.6	107.1	97.7	87.4	76.2	64.1	57.6	53.6	49.4	44.9	40.3
-77.5°	52.5	50.4	48.1	45.6	42.9	40.0	36.9	34.1	32.4	30.5	28.6
-80°	31.6	30.8	29.9	28.9	27.8	26.6	25.4	24.0	22.6	21.4	20.3
-82.5°	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7	13.9
-85°	12.1	12.0	11.8	11.6	11.3	11.1	10.8	10.5	10.2	9.9	9.6
-87.5°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
-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):**

	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	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	2.2
85°	9.2	8.9	8.5	8.1	7.7	7.3	6.7	6.2	5.6	5.0	4.4
82.5°	13.0	12.4	11.8	11.2	10.6	10.0	9.4	8.8	8.1	7.4	6.6
80°	19.1	17.9	16.7	15.4	14.1	12.8	11.9	11.1	10.2	9.3	8.4
77.5°	26.5	24.4	22.3	20.6	18.9	17.2	15.5	13.7	12.3	11.1	10.0
75°	35.4	32.5	29.9	27.2	24.4	21.7	19.6	17.5	15.3	13.1	11.6
72.5°	52.3	46.4	40.3	34.4	31.1	27.8	24.4	21.2	18.7	16.1	13.5
70°	90.5	67.3	55.4	48.1	40.7	33.9	30.0	26.1	22.0	19.1	16.1
67.5°	147.4	121.3	94.4	66.6	53.8	45.3	36.5	31.2	26.6	22.0	18.7
65°	258.3	200.9	144.8	113.9	82.2	57.2	47.5	37.7	31.2	26.1	21.2
62.5°	380.9	305.3	240.0	172.8	125.7	90.1	58.4	47.5	36.5	30.0	24.4
60°	518.1	430.9	340.9	263.6	188.5	129.7	90.1	57.2	45.3	33.9	27.8
57.5°	650.5	558.2	461.1	360.9	271.5	188.5	125.7	82.2	53.8	40.7	31.1
55°	786.8	680.5	578.0	471.2	360.9	263.6	172.8	113.9	66.6	48.1	34.4
52.5°	947.5	812.4	690.5	578.0	461.1	340.9	240.0	144.8	94.4	55.4	40.3
50°	1106.3	960.4	812.4	680.5	558.2	430.9	305.3	200.9	121.3	67.3	46.4
47.5°	1262.8	1106.3	947.5	786.8	650.5	518.1	380.9	258.3	147.4	90.5	52.3
45°	1412.0	1249.3	1079.6	908.8	739.9	601.0	458.0	313.7	196.6	112.8	58.0
42.5°	1555.7	1385.4	1208.9	1026.7	845.0	680.2	532.2	378.9	244.3	134.2	71.1
40°	1724.4	1515.4	1332.6	1142.3	949.7	756.8	601.8	443.3	290.0	161.1	89.0
37.5°	1889.8	1657.1	1448.8	1253.0	1050.3	848.6	668.1	504.7	336.8	199.6	106.0
35°	2054.6	1804.9	1559.7	1357.0	1147.5	935.9	731.0	562.5	388.9	236.1	122.0
32.5°	2212.1	1947.3	1687.9	1454.3	1239.6	1018.5	799.8	616.1	438.1	270.5	137.2
30°	2342.1	2085.8	1810.8	1546.0	1325.5	1097.5	870.3	666.3	484.1	302.7	154.6
27.5°	2458.5	2215.7	1927.0	1646.6	1404.1	1171.3	935.9	713.1	526.9	335.6	180.6
25°	2561.9	2321.6	2038.5	1744.9	1476.9	1239.6	996.6	756.8	565.8	370.4	204.6
22.5°	2644.7	2414.0	2141.0	1835.2	1543.7	1302.0	1052.6	806.7	601.0	402.2	226.4
20°	2720.1	2498.0	2234.0	1917.6	1612.4	1357.0	1103.8	851.7	632.7	430.9	246.1
17.5°	2844.0	2567.0	2305.6	1993.8	1679.1	1406.0	1149.3	891.8	660.9	456.3	263.6
15°	3207.8	2621.7	2366.1	2060.5	1737.4	1448.8	1189.0	926.7	685.5	478.5	278.9
12.5°	3519.5	2668.5	2417.9	2117.5	1787.2	1485.3	1222.9	956.5	706.5	497.4	291.8
10°	3777.3	2707.2	2460.6	2164.5	1828.2	1515.4	1250.8	981.0	723.7	512.9	302.5
7.5°	3979.5	2737.4	2494.1	2201.2	1860.2	1538.8	1272.6	1000.1	737.1	525.1	310.8
5°	4124.9	2759.2	2518.1	2227.6	1883.2	1555.7	1288.2	1013.8	746.8	533.7	316.7
2.5°	4212.5	2772.3	2532.6	2243.5	1897.1	1565.8	1297.6	1022.1	752.6	539.0	320.3
0°	4241.8	2776.7	2537.4	2248.8	1901.7	1569.2	1300.7	1024.8	754.5	540.7	321.5
-2.5°	4212.5	2772.3	2532.6	2243.5	1897.1	1565.8	1297.6	1022.1	752.6	539.0	320.3
-5°	4124.9	2759.2	2518.1	2227.6	1883.2	1555.7	1288.2	1013.8	746.8	533.7	316.7
-7.5°	3979.5	2737.4	2494.1	2201.2	1860.2	1538.8	1272.6	1000.1	737.1	525.1	310.8
-10°	3777.3	2707.2	2460.6	2164.5	1828.2	1515.4	1250.8	981.0	723.7	512.9	302.5
-12.5°	3519.5	2668.5	2417.9	2117.5	1787.2	1485.3	1222.9	956.5	706.5	497.4	291.8
-15°	3207.8	2621.7	2366.1	2060.5	1737.4	1448.8	1189.0	926.7	685.5	478.5	278.9
-17.5°	2844.0	2567.0	2305.6	1993.8	1679.1	1406.0	1149.3	891.8	660.9	456.3	263.6
-20°	2720.1	2498.0	2234.0	1917.6	1612.4	1357.0	1103.8	851.7	632.7	430.9	246.1



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2644.7	2414.0	2141.0	1835.2	1543.7	1302.0	1052.6	806.7	601.0	402.2	226.4
-25°	2561.9	2321.6	2038.5	1744.9	1476.9	1239.6	996.6	756.8	565.8	370.4	204.6
-27.5°	2458.5	2215.7	1927.0	1646.6	1404.1	1171.3	935.9	713.1	526.9	335.6	180.6
-30°	2342.1	2085.8	1810.8	1546.0	1325.5	1097.5	870.3	666.3	484.1	302.7	154.6
-32.5°	2212.1	1947.3	1687.9	1454.3	1239.6	1018.5	799.8	616.1	438.1	270.5	137.2
-35°	2054.6	1804.9	1559.7	1357.0	1147.5	935.9	731.0	562.5	388.9	236.1	122.0
-37.5°	1889.8	1657.1	1448.8	1253.0	1050.3	848.6	668.1	504.7	336.8	199.6	106.0
-40°	1724.4	1515.4	1332.6	1142.3	949.7	756.8	601.8	443.3	290.0	161.1	89.0
-42.5°	1555.7	1385.4	1208.9	1026.7	845.0	680.2	532.2	378.9	244.3	134.2	71.1
-45°	1412.0	1249.3	1079.6	908.8	739.9	601.0	458.0	313.7	196.6	112.8	58.0
-47.5°	1262.8	1106.3	947.5	786.8	650.5	518.1	380.9	258.3	147.4	90.5	52.3
-50°	1106.3	960.4	812.4	680.5	558.2	430.9	305.3	200.9	121.3	67.3	46.4
-52.5°	947.5	812.4	690.5	578.0	461.1	340.9	240.0	144.8	94.4	55.4	40.3
-55°	786.8	680.5	578.0	471.2	360.9	263.6	172.8	113.9	66.6	48.1	34.4
-57.5°	650.5	558.2	461.1	360.9	271.5	188.5	125.7	82.2	53.8	40.7	31.1
-60°	518.1	430.9	340.9	263.6	188.5	129.7	90.1	57.2	45.3	33.9	27.8
-62.5°	380.9	305.3	240.0	172.8	125.7	90.1	58.4	47.5	36.5	30.0	24.4
-65°	258.3	200.9	144.8	113.9	82.2	57.2	47.5	37.7	31.2	26.1	21.2
-67.5°	147.4	121.3	94.4	66.6	53.8	45.3	36.5	31.2	26.6	22.0	18.7
-70°	90.5	67.3	55.4	48.1	40.7	33.9	30.0	26.1	22.0	19.1	16.1
-72.5°	52.3	46.4	40.3	34.4	31.1	27.8	24.4	21.2	18.7	16.1	13.5
-75°	35.4	32.5	29.9	27.2	24.4	21.7	19.6	17.5	15.3	13.1	11.6
-77.5°	26.5	24.4	22.3	20.6	18.9	17.2	15.5	13.7	12.3	11.1	10.0
-80°	19.1	17.9	16.7	15.4	14.1	12.8	11.9	11.1	10.2	9.3	8.4
-82.5°	13.0	12.4	11.8	11.2	10.6	10.0	9.4	8.8	8.1	7.4	6.6
-85°	9.2	8.9	8.5	8.1	7.7	7.3	6.7	6.2	5.6	5.0	4.4
-87.5°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	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	1.3	1.0	0.6	0.3	0.0
85°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
80°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
77.5°	8.9	7.7	6.3	4.7	3.2	1.6	0.0
75°	10.3	8.9	7.5	5.7	3.8	1.9	0.0
72.5°	11.6	10.0	8.4	6.6	4.4	2.2	0.0
70°	13.1	11.1	9.3	7.4	5.0	2.5	0.0
67.5°	15.3	12.3	10.2	8.1	5.6	2.8	0.0
65°	17.5	13.7	11.1	8.8	6.2	3.1	0.0
62.5°	19.6	15.5	11.9	9.4	6.7	3.4	0.0
60°	21.7	17.2	12.8	10.0	7.3	3.6	0.0
57.5°	24.4	18.9	14.1	10.6	7.7	3.9	0.0
55°	27.2	20.6	15.4	11.2	8.1	4.2	0.0
52.5°	29.9	22.3	16.7	11.8	8.5	4.4	0.0
50°	32.5	24.4	17.9	12.4	8.9	4.7	0.0
47.5°	35.4	26.5	19.1	13.0	9.2	4.9	0.0
45°	40.3	28.6	20.3	13.9	9.6	5.2	0.0
42.5°	44.9	30.5	21.4	14.7	9.9	5.4	0.0
40°	49.4	32.4	22.6	15.5	10.2	5.6	0.0
37.5°	53.6	34.1	24.0	16.2	10.5	5.8	0.0
35°	57.6	36.9	25.4	16.9	10.8	6.0	0.0
32.5°	64.1	40.0	26.6	17.6	11.1	6.2	0.0
30°	76.2	42.9	27.8	18.2	11.3	6.3	0.0
27.5°	87.4	45.6	28.9	18.8	11.6	6.5	0.0
25°	97.7	48.1	29.9	19.3	11.8	6.6	0.0
22.5°	107.1	50.4	30.8	19.8	12.0	6.7	0.0
20°	115.6	52.5	31.6	20.2	12.1	6.9	0.0
17.5°	123.1	54.3	32.3	20.6	12.3	7.0	0.0
15°	129.7	55.9	32.9	21.0	12.4	7.1	0.0
12.5°	135.2	57.2	33.5	21.2	12.5	7.1	0.0
10°	139.8	58.3	33.9	21.5	12.6	7.2	0.0
7.5°	143.4	59.2	34.3	21.7	12.7	7.2	0.0
5°	146.0	59.8	34.5	21.8	12.8	7.3	0.0
2.5°	147.5	60.2	34.7	21.9	12.8	7.3	0.0
0°	148.0	60.3	34.7	21.9	12.8	7.3	0.0
-2.5°	147.5	60.2	34.7	21.9	12.8	7.3	0.0
-5°	146.0	59.8	34.5	21.8	12.8	7.3	0.0
-7.5°	143.4	59.2	34.3	21.7	12.7	7.2	0.0
-10°	139.8	58.3	33.9	21.5	12.6	7.2	0.0
-12.5°	135.2	57.2	33.5	21.2	12.5	7.1	0.0
-15°	129.7	55.9	32.9	21.0	12.4	7.1	0.0
-17.5°	123.1	54.3	32.3	20.6	12.3	7.0	0.0
-20°	115.6	52.5	31.6	20.2	12.1	6.9	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	107.1	50.4	30.8	19.8	12.0	6.7	0.0
-25°	97.7	48.1	29.9	19.3	11.8	6.6	0.0
-27.5°	87.4	45.6	28.9	18.8	11.6	6.5	0.0
-30°	76.2	42.9	27.8	18.2	11.3	6.3	0.0
-32.5°	64.1	40.0	26.6	17.6	11.1	6.2	0.0
-35°	57.6	36.9	25.4	16.9	10.8	6.0	0.0
-37.5°	53.6	34.1	24.0	16.2	10.5	5.8	0.0
-40°	49.4	32.4	22.6	15.5	10.2	5.6	0.0
-42.5°	44.9	30.5	21.4	14.7	9.9	5.4	0.0
-45°	40.3	28.6	20.3	13.9	9.6	5.2	0.0
-47.5°	35.4	26.5	19.1	13.0	9.2	4.9	0.0
-50°	32.5	24.4	17.9	12.4	8.9	4.7	0.0
-52.5°	29.9	22.3	16.7	11.8	8.5	4.4	0.0
-55°	27.2	20.6	15.4	11.2	8.1	4.2	0.0
-57.5°	24.4	18.9	14.1	10.6	7.7	3.9	0.0
-60°	21.7	17.2	12.8	10.0	7.3	3.6	0.0
-62.5°	19.6	15.5	11.9	9.4	6.7	3.4	0.0
-65°	17.5	13.7	11.1	8.8	6.2	3.1	0.0
-67.5°	15.3	12.3	10.2	8.1	5.6	2.8	0.0
-70°	13.1	11.1	9.3	7.4	5.0	2.5	0.0
-72.5°	11.6	10.0	8.4	6.6	4.4	2.2	0.0
-75°	10.3	8.9	7.5	5.7	3.8	1.9	0.0
-77.5°	8.9	7.7	6.3	4.7	3.2	1.6	0.0
-80°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
-82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
-85°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
-87.5°	1.9	1.6	1.3	1.0	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

