

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: P701457 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-1S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

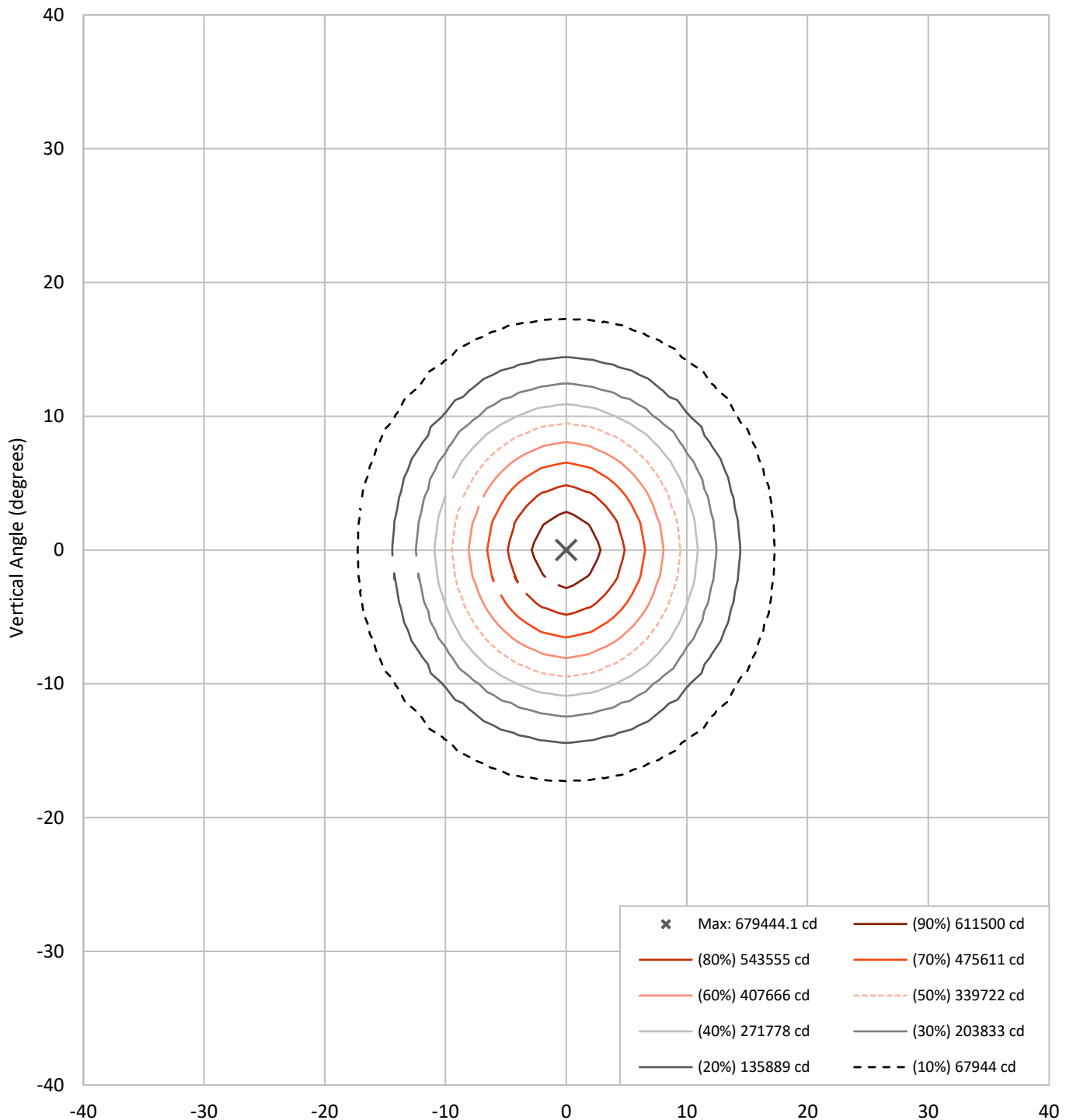
Test Method: LM-79-08  
Report Number: P701457 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-57-80-1S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	92041.3 lumens	Max Intensity:	679444.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	140.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	39671 lumens	Field Lumens:	73082.6 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	653.1		
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





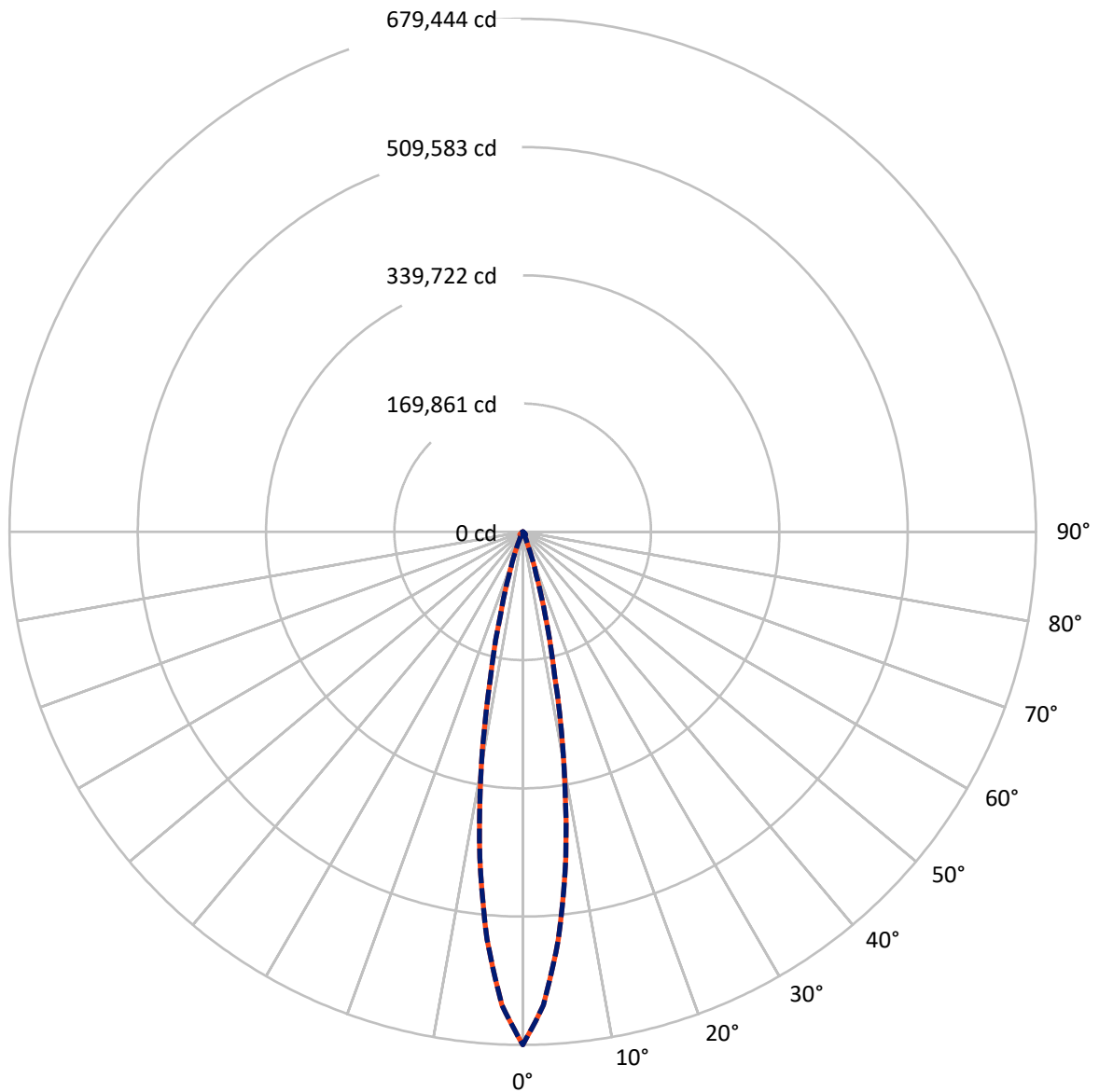
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### Lumen Table

90																			
80	0.1	0.9		3.2		8.0		10.5		8.0		3.2		0.9		0.1			
70																			
60	0.4	0.5	1.9	5.7	11.6	18.0	23.2	26.2	26.2	23.2	18.0	11.6	5.7	1.9	0.5	0.4			
50		1.4	6.8	16.7	28.7	38.8	45.4	48.9	48.9	45.4	38.8	28.7	16.7	6.8	1.4				
40	1.1	3.5	13.6	28.4	41.5	70.3	110.7	133.0	133.0	110.7	70.3	41.5	28.4	13.6	3.5	1.1			
30		6.2	20.3	35.9	84.9	145.3	160.5	160.8	160.8	160.5	145.3	84.9	35.9	20.3	6.2				
20	2.3	8.6	24.7	55.5	131.5	145.6	160.0	277.3	277.3	160.0	145.6	131.5	55.5	24.7	8.6	2.3			
10		10.5	27.1	82.2	136.1	150.3	878.9	3282.1	3282.1	878.9	150.3	136.1	82.2	27.1	10.5				
0	2.9	11.4	28.3	95.5	132.0	255.1	3202.6	12603.3	12603.3	3202.6	255.1	132.0	95.5	28.3	11.4	2.9			
-10		11.4	28.3	95.5	132.0	255.1	3202.6	12603.3	12603.3	3202.6	255.1	132.0	95.5	28.3	11.4				
-20	2.3	10.5	27.1	82.2	136.1	150.3	878.9	3282.1	3282.1	878.9	150.3	136.1	82.2	27.1	10.5	2.3			
-30		8.6	24.7	55.5	131.5	145.6	160.0	277.3	277.3	160.0	145.6	131.5	55.5	24.7	8.6				
-40	1.1	6.2	20.3	35.9	84.9	145.3	160.5	160.8	160.8	160.5	145.3	84.9	35.9	20.3	6.2	1.1			
-50		3.5	13.6	28.4	41.5	70.3	110.7	133.0	133.0	110.7	70.3	41.5	28.4	13.6	3.5				
-60	0.4	1.4	6.8	16.7	28.7	38.8	45.4	48.9	48.9	45.4	38.8	28.7	16.7	6.8	1.4	0.4			
-70		0.5	1.9	5.7	11.6	18.0	23.2	26.2	26.2	23.2	18.0	11.6	5.7	1.9	0.5				
-80	0.1	0.9		3.2		8.0		10.5		8.0		3.2		0.9		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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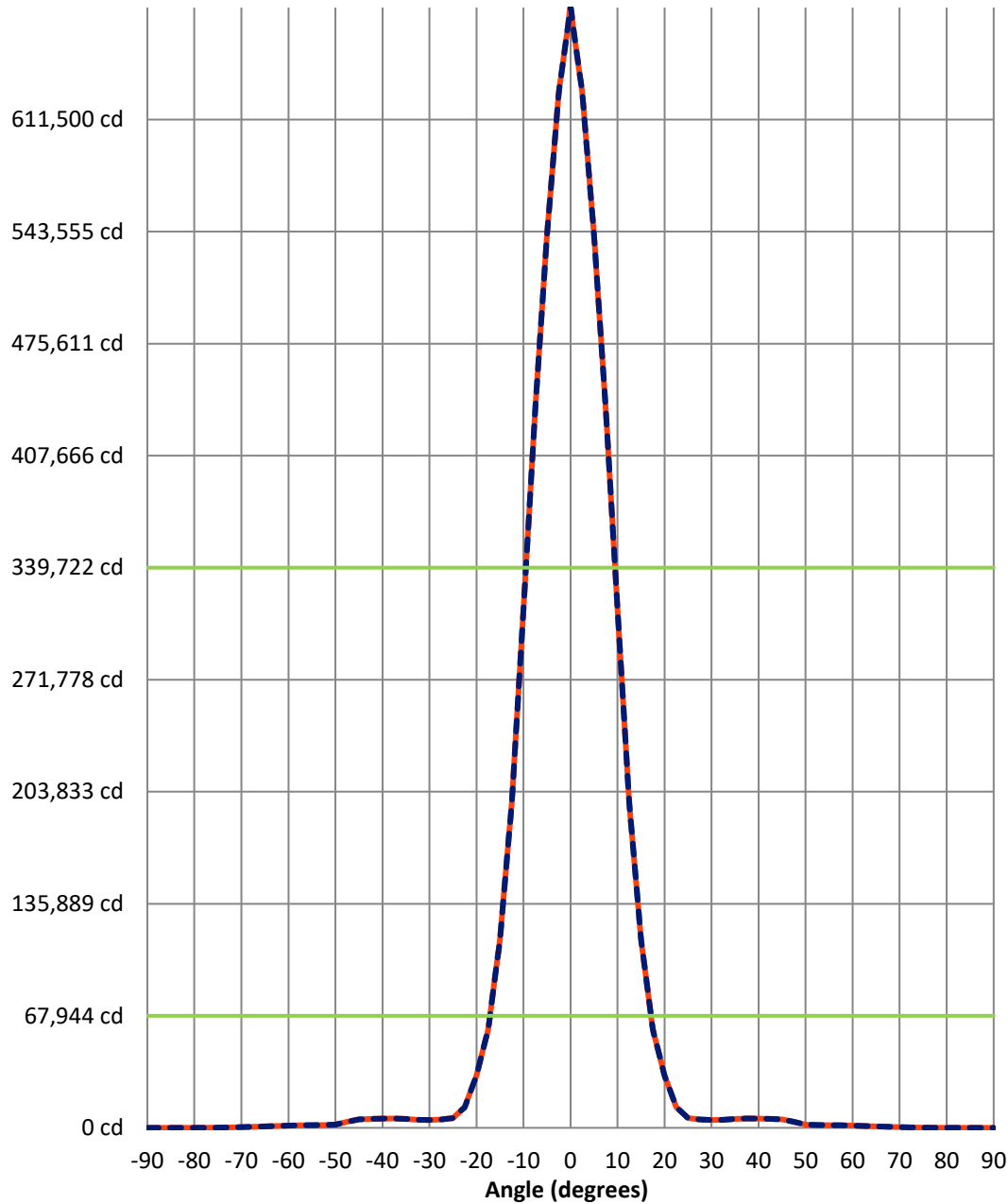
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 19°  
V Angle: 19°  
Lumens: 39671  
Efficiency: 43.1%

**Field:**  
H Angle: 34.3°  
V Angle: 34.3°  
Lumens: 73082.6  
Efficiency: 79.4%

**Spill:**  
Lumens: 18958.7  
Efficiency: 20.6%

— 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	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.2	7.8
80°	0.0	1.1	2.3	3.4	4.5	5.6	6.6	7.5	8.3	9.1	9.8
77.5°	0.0	1.4	2.8	4.2	5.6	6.9	7.9	8.9	9.9	10.9	12.4
75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	14.1	16.4
72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.1	14.9	17.7	20.4
70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.9	18.1	21.3	24.9
67.5°	0.0	2.5	5.0	7.2	9.1	10.9	14.1	17.7	21.3	25.4	29.4
65°	0.0	2.7	5.5	7.8	9.8	12.4	16.4	20.4	24.9	29.4	34.8
62.5°	0.0	3.0	6.0	8.4	10.6	14.3	18.7	23.4	28.4	33.9	42.3
60°	0.0	3.2	6.5	8.9	11.4	16.2	20.9	26.4	31.8	40.6	49.7
57.5°	0.0	3.5	6.9	9.5	12.8	18.0	23.4	29.3	37.1	47.1	68.3
55°	0.0	3.7	7.2	10.0	14.2	19.8	25.9	32.2	42.8	56.8	91.8
52.5°	0.0	4.0	7.6	10.5	15.6	21.5	28.3	36.8	48.3	77.4	114.7
50°	0.0	4.2	7.9	11.0	16.9	23.4	30.6	41.5	57.3	97.3	157.8
47.5°	0.0	4.4	8.2	11.6	18.2	25.3	33.1	46.0	74.5	116.7	202.0
45°	0.0	4.6	8.5	12.6	19.4	27.1	36.8	50.3	91.0	154.5	244.6
42.5°	0.0	4.8	8.8	13.4	20.6	28.8	40.3	60.1	106.8	191.2	297.9
40°	0.0	5.0	9.1	14.3	21.9	30.4	43.8	73.4	127.2	226.4	351.0
37.5°	0.0	5.2	9.4	15.1	23.1	32.0	47.0	85.9	156.8	263.2	401.6
35°	0.0	5.3	9.6	15.9	24.3	34.2	50.1	97.9	184.9	306.1	451.4
32.5°	0.0	5.5	9.9	16.6	25.4	36.6	54.9	109.1	211.4	346.6	501.2
30°	0.0	5.6	10.1	17.2	26.4	38.8	63.9	122.2	236.1	384.6	547.8
27.5°	0.0	5.8	10.3	17.9	27.3	40.9	72.2	142.2	262.2	419.9	591.3
25°	0.0	5.9	10.5	18.4	28.2	42.8	79.8	160.6	290.9	454.5	631.7
22.5°	0.0	6.0	10.7	19.0	29.0	44.5	86.8	177.4	317.1	487.2	675.8
20°	0.0	6.1	10.8	19.4	29.7	46.1	93.1	192.6	340.7	516.6	715.7
17.5°	0.0	6.2	10.9	19.8	30.4	47.5	98.7	206.1	361.7	542.8	751.1
15°	0.0	6.3	11.1	20.2	30.9	48.7	103.5	217.8	380.0	565.7	782.0
12.5°	0.0	6.3	11.2	20.5	31.4	49.7	107.6	227.8	395.5	585.1	808.4
10°	0.0	6.4	11.3	20.8	31.8	50.6	111.0	236.0	408.3	601.1	830.0
7.5°	0.0	6.4	11.3	20.9	32.1	51.2	113.7	242.4	418.3	613.6	847.0
5°	0.0	6.5	11.4	21.1	32.3	51.7	115.6	246.9	425.5	622.5	859.1
2.5°	0.0	6.5	11.4	21.2	32.5	52.0	116.7	249.7	429.8	627.9	866.4
0°	0.0	6.5	11.4	21.2	32.5	52.0	116.7	249.7	429.8	627.9	866.4
-2.5°	0.0	6.5	11.4	21.2	32.5	52.0	116.7	249.7	429.8	627.9	866.4
-5°	0.0	6.5	11.4	21.1	32.3	51.7	115.6	246.9	425.5	622.5	859.1
-7.5°	0.0	6.4	11.3	20.9	32.1	51.2	113.7	242.4	418.3	613.6	847.0
-10°	0.0	6.4	11.3	20.8	31.8	50.6	111.0	236.0	408.3	601.1	830.0
-12.5°	0.0	6.3	11.2	20.5	31.4	49.7	107.6	227.8	395.5	585.1	808.4
-15°	0.0	6.3	11.1	20.2	30.9	48.7	103.5	217.8	380.0	565.7	782.0
-17.5°	0.0	6.2	10.9	19.8	30.4	47.5	98.7	206.1	361.7	542.8	751.1
-20°	0.0	6.1	10.8	19.4	29.7	46.1	93.1	192.6	340.7	516.6	715.7



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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	6.0	10.7	19.0	29.0	44.5	86.8	177.4	317.1	487.2	675.8
-25°	0.0	5.9	10.5	18.4	28.2	42.8	79.8	160.6	290.9	454.5	631.7
-27.5°	0.0	5.8	10.3	17.9	27.3	40.9	72.2	142.2	262.2	419.9	591.3
-30°	0.0	5.6	10.1	17.2	26.4	38.8	63.9	122.2	236.1	384.6	547.8
-32.5°	0.0	5.5	9.9	16.6	25.4	36.6	54.9	109.1	211.4	346.6	501.2
-35°	0.0	5.3	9.6	15.9	24.3	34.2	50.1	97.9	184.9	306.1	451.4
-37.5°	0.0	5.2	9.4	15.1	23.1	32.0	47.0	85.9	156.8	263.2	401.6
-40°	0.0	5.0	9.1	14.3	21.9	30.4	43.8	73.4	127.2	226.4	351.0
-42.5°	0.0	4.8	8.8	13.4	20.6	28.8	40.3	60.1	106.8	191.2	297.9
-45°	0.0	4.6	8.5	12.6	19.4	27.1	36.8	50.3	91.0	154.5	244.6
-47.5°	0.0	4.4	8.2	11.6	18.2	25.3	33.1	46.0	74.5	116.7	202.0
-50°	0.0	4.2	7.9	11.0	16.9	23.4	30.6	41.5	57.3	97.3	157.8
-52.5°	0.0	4.0	7.6	10.5	15.6	21.5	28.3	36.8	48.3	77.4	114.7
-55°	0.0	3.7	7.2	10.0	14.2	19.8	25.9	32.2	42.8	56.8	91.8
-57.5°	0.0	3.5	6.9	9.5	12.8	18.0	23.4	29.3	37.1	47.1	68.3
-60°	0.0	3.2	6.5	8.9	11.4	16.2	20.9	26.4	31.8	40.6	49.7
-62.5°	0.0	3.0	6.0	8.4	10.6	14.3	18.7	23.4	28.4	33.9	42.3
-65°	0.0	2.7	5.5	7.8	9.8	12.4	16.4	20.4	24.9	29.4	34.8
-67.5°	0.0	2.5	5.0	7.2	9.1	10.9	14.1	17.7	21.3	25.4	29.4
-70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.9	18.1	21.3	24.9
-72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.1	14.9	17.7	20.4
-75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	14.1	16.4
-77.5°	0.0	1.4	2.8	4.2	5.6	6.9	7.9	8.9	9.9	10.9	12.4
-80°	0.0	1.1	2.3	3.4	4.5	5.6	6.6	7.5	8.3	9.1	9.8
-82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.2	7.8
-85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
-87.5°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
-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):**

	-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°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	5.2
85°	6.0	6.5	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.1	9.4
82.5°	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.6	13.4	14.3	15.1
80°	10.6	11.4	12.8	14.2	15.6	16.9	18.2	19.4	20.6	21.9	23.1
77.5°	14.3	16.2	18.0	19.8	21.5	23.4	25.3	27.1	28.8	30.4	32.0
75°	18.7	20.9	23.4	25.9	28.3	30.6	33.1	36.8	40.3	43.8	47.0
72.5°	23.4	26.4	29.3	32.2	36.8	41.5	46.0	50.3	60.1	73.4	85.9
70°	28.4	31.8	37.1	42.8	48.3	57.3	74.5	91.0	106.8	127.2	156.8
67.5°	33.9	40.6	47.1	56.8	77.4	97.3	116.7	154.5	191.2	226.4	263.2
65°	42.3	49.7	68.3	91.8	114.7	157.8	202.0	244.6	297.9	351.0	401.6
62.5°	50.6	74.2	100.6	136.2	187.9	238.1	299.5	363.1	424.2	488.0	549.5
60°	74.2	103.5	148.3	206.1	266.6	340.7	412.6	487.2	560.8	631.7	713.0
57.5°	100.6	148.3	212.1	283.1	365.6	447.4	533.2	616.1	709.8	802.3	891.7
55°	136.2	206.1	283.1	373.9	465.9	561.0	658.3	766.2	870.5	974.2	1073.5
52.5°	187.9	266.6	365.6	465.9	570.3	680.9	800.4	918.0	1033.9	1143.4	1242.7
50°	238.1	340.7	447.4	561.0	680.9	811.8	941.9	1070.1	1188.6	1299.6	1398.5
47.5°	299.5	412.6	533.2	658.3	800.4	941.9	1082.2	1211.3	1334.1	1439.0	1538.5
45°	363.1	487.2	616.1	766.2	918.0	1070.1	1211.3	1345.6	1459.4	1553.5	1588.0
42.5°	424.2	560.8	709.8	870.5	1033.9	1188.6	1334.1	1459.4	1556.8	1594.9	1638.8
40°	488.0	631.7	802.3	974.2	1143.4	1299.6	1439.0	1553.5	1594.9	1643.5	1696.0
37.5°	549.5	713.0	891.7	1073.5	1242.7	1398.5	1538.5	1588.0	1638.8	1696.0	1853.5
35°	607.9	790.2	978.9	1164.3	1337.5	1487.4	1574.4	1624.7	1686.4	1839.1	2320.2
32.5°	669.8	863.2	1061.4	1247.5	1417.0	1554.2	1603.9	1667.4	1796.2	2124.4	3323.8
30°	732.1	934.0	1137.4	1325.8	1491.0	1580.2	1639.2	1725.5	1922.8	3024.3	4188.2
27.5°	790.2	1000.2	1204.6	1392.2	1550.4	1604.6	1674.6	1836.9	2532.1	3843.6	4958.0
25°	843.8	1061.4	1266.8	1451.4	1571.4	1633.0	1724.9	1940.9	3276.0	4519.4	5235.0
22.5°	893.7	1117.3	1323.8	1505.7	1590.6	1661.1	1813.9	2496.2	3919.1	5123.2	5375.6
20°	939.6	1164.3	1371.6	1548.7	1608.0	1686.6	1894.9	3079.4	4452.1	5243.2	5470.9
17.5°	980.4	1206.2	1411.7	1563.0	1628.1	1730.4	2034.3	3603.0	4931.9	5351.4	5541.3
15°	1016.1	1242.7	1446.8	1575.5	1646.5	1789.2	2459.4	4003.5	5166.8	5436.2	5602.5
12.5°	1046.5	1273.9	1476.8	1586.2	1662.3	1839.5	2823.6	4338.6	5242.7	5485.8	5619.3
10°	1071.4	1299.6	1501.5	1595.0	1675.2	1881.0	3124.7	4616.1	5305.7	5527.1	5633.4
7.5°	1091.0	1319.7	1520.7	1601.9	1685.4	1913.5	3361.0	4834.1	5355.3	5559.6	5644.4
5°	1105.0	1334.1	1534.6	1606.8	1692.7	1936.9	3530.8	4990.9	5391.0	5583.0	5652.4
2.5°	1113.4	1342.7	1542.9	1609.8	1697.1	1951.0	3633.2	5085.5	5412.5	5597.2	5657.3
0°	1116.2	1345.6	1545.7	1610.8	1698.6	1955.7	3667.4	5117.1	5419.7	5601.9	5658.9
-2.5°	1113.4	1342.7	1542.9	1609.8	1697.1	1951.0	3633.2	5085.5	5412.5	5597.2	5657.3
-5°	1105.0	1334.1	1534.6	1606.8	1692.7	1936.9	3530.8	4990.9	5391.0	5583.0	5652.4
-7.5°	1091.0	1319.7	1520.7	1601.9	1685.4	1913.5	3361.0	4834.1	5355.3	5559.6	5644.4
-10°	1071.4	1299.6	1501.5	1595.0	1675.2	1881.0	3124.7	4616.1	5305.7	5527.1	5633.4
-12.5°	1046.5	1273.9	1476.8	1586.2	1662.3	1839.5	2823.6	4338.6	5242.7	5485.8	5619.3
-15°	1016.1	1242.7	1446.8	1575.5	1646.5	1789.2	2459.4	4003.5	5166.8	5436.2	5602.5
-17.5°	980.4	1206.2	1411.7	1563.0	1628.1	1730.4	2034.3	3603.0	4931.9	5351.4	5541.3
-20°	939.6	1164.3	1371.6	1548.7	1608.0	1686.6	1894.9	3079.4	4452.1	5243.2	5470.9



REPORT NUMBER: P701457 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-1S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	893.7	1117.3	1323.8	1505.7	1590.6	1661.1	1813.9	2496.2	3919.1	5123.2	5375.6
-25°	843.8	1061.4	1266.8	1451.4	1571.4	1633.0	1724.9	1940.9	3276.0	4519.4	5235.0
-27.5°	790.2	1000.2	1204.6	1392.2	1550.4	1604.6	1674.6	1836.9	2532.1	3843.6	4958.0
-30°	732.1	934.0	1137.4	1325.8	1491.0	1580.2	1639.2	1725.5	1922.8	3024.3	4188.2
-32.5°	669.8	863.2	1061.4	1247.5	1417.0	1554.2	1603.9	1667.4	1796.2	2124.4	3323.8
-35°	607.9	790.2	978.9	1164.3	1337.5	1487.4	1574.4	1624.7	1686.4	1839.1	2320.2
-37.5°	549.5	713.0	891.7	1073.5	1242.7	1398.5	1538.5	1588.0	1638.8	1696.0	1853.5
-40°	488.0	631.7	802.3	974.2	1143.4	1299.6	1439.0	1553.5	1594.9	1643.5	1696.0
-42.5°	424.2	560.8	709.8	870.5	1033.9	1188.6	1334.1	1459.4	1556.8	1594.9	1638.8
-45°	363.1	487.2	616.1	766.2	918.0	1070.1	1211.3	1345.6	1459.4	1553.5	1588.0
-47.5°	299.5	412.6	533.2	658.3	800.4	941.9	1082.2	1211.3	1334.1	1439.0	1538.5
-50°	238.1	340.7	447.4	561.0	680.9	811.8	941.9	1070.1	1188.6	1299.6	1398.5
-52.5°	187.9	266.6	365.6	465.9	570.3	680.9	800.4	918.0	1033.9	1143.4	1242.7
-55°	136.2	206.1	283.1	373.9	465.9	561.0	658.3	766.2	870.5	974.2	1073.5
-57.5°	100.6	148.3	212.1	283.1	365.6	447.4	533.2	616.1	709.8	802.3	891.7
-60°	74.2	103.5	148.3	206.1	266.6	340.7	412.6	487.2	560.8	631.7	713.0
-62.5°	50.6	74.2	100.6	136.2	187.9	238.1	299.5	363.1	424.2	488.0	549.5
-65°	42.3	49.7	68.3	91.8	114.7	157.8	202.0	244.6	297.9	351.0	401.6
-67.5°	33.9	40.6	47.1	56.8	77.4	97.3	116.7	154.5	191.2	226.4	263.2
-70°	28.4	31.8	37.1	42.8	48.3	57.3	74.5	91.0	106.8	127.2	156.8
-72.5°	23.4	26.4	29.3	32.2	36.8	41.5	46.0	50.3	60.1	73.4	85.9
-75°	18.7	20.9	23.4	25.9	28.3	30.6	33.1	36.8	40.3	43.8	47.0
-77.5°	14.3	16.2	18.0	19.8	21.5	23.4	25.3	27.1	28.8	30.4	32.0
-80°	10.6	11.4	12.8	14.2	15.6	16.9	18.2	19.4	20.6	21.9	23.1
-82.5°	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.6	13.4	14.3	15.1
-85°	6.0	6.5	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.1	9.4
-87.5°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	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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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-1S-HEG-S

**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°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
85°	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3
82.5°	15.9	16.6	17.2	17.9	18.4	19.0	19.4	19.8	20.2	20.5	20.8
80°	24.3	25.4	26.4	27.3	28.2	29.0	29.7	30.4	30.9	31.4	31.8
77.5°	34.2	36.6	38.8	40.9	42.8	44.5	46.1	47.5	48.7	49.7	50.6
75°	50.1	54.9	63.9	72.2	79.8	86.8	93.1	98.7	103.5	107.6	111.0
72.5°	97.9	109.1	122.2	142.2	160.6	177.4	192.6	206.1	217.8	227.8	236.0
70°	184.9	211.4	236.1	262.2	290.9	317.1	340.7	361.7	380.0	395.5	408.3
67.5°	306.1	346.6	384.6	419.9	454.5	487.2	516.6	542.8	565.7	585.1	601.1
65°	451.4	501.2	547.8	591.3	631.7	675.8	715.7	751.1	782.0	808.4	830.0
62.5°	607.9	669.8	732.1	790.2	843.8	893.7	939.6	980.4	1016.1	1046.5	1071.4
60°	790.2	863.2	934.0	1000.2	1061.4	1117.3	1164.3	1206.2	1242.7	1273.9	1299.6
57.5°	978.9	1061.4	1137.4	1204.6	1266.8	1323.8	1371.6	1411.7	1446.8	1476.8	1501.5
55°	1164.3	1247.5	1325.8	1392.2	1451.4	1505.7	1548.7	1563.0	1575.5	1586.2	1595.0
52.5°	1337.5	1417.0	1491.0	1550.4	1571.4	1590.6	1608.0	1628.1	1646.5	1662.3	1675.2
50°	1487.4	1554.2	1580.2	1604.6	1633.0	1661.1	1686.6	1730.4	1789.2	1839.5	1881.0
47.5°	1574.4	1603.9	1639.2	1674.6	1724.9	1813.9	1894.9	2034.3	2459.4	2823.6	3124.7
45°	1624.7	1667.4	1725.5	1836.9	1940.9	2496.2	3079.4	3603.0	4003.5	4338.6	4616.1
42.5°	1686.4	1796.2	1922.8	2532.1	3276.0	3919.1	4452.1	4931.9	5166.8	5242.7	5305.7
40°	1839.1	2124.4	3024.3	3843.6	4519.4	5123.2	5243.2	5351.4	5436.2	5485.8	5527.1
37.5°	2320.2	3323.8	4188.2	4958.0	5235.0	5375.6	5470.9	5541.3	5602.5	5619.3	5633.4
35°	3424.4	4362.5	5139.7	5311.0	5451.5	5542.3	5609.5	5633.2	5654.4	5593.9	5521.9
32.5°	4362.5	5158.4	5349.5	5487.2	5591.1	5629.0	5657.1	5546.3	5438.4	5302.1	5150.7
30°	5139.7	5349.5	5499.2	5606.2	5640.9	5590.2	5447.5	5248.8	5023.2	4861.1	4819.0
27.5°	5311.0	5487.2	5606.2	5644.9	5551.0	5383.4	5087.9	4858.5	4796.2	4741.4	4853.6
25°	5451.5	5591.1	5640.9	5551.0	5343.9	5005.8	4826.0	4751.2	4882.4	5028.6	5301.9
22.5°	5542.3	5629.0	5590.2	5383.4	5005.8	4815.0	4772.9	4970.3	5295.8	5723.0	7206.7
20°	5609.5	5657.1	5447.5	5087.9	4826.0	4772.9	5000.1	5463.1	6415.7	10041.2	14331.4
17.5°	5633.2	5546.3	5248.8	4858.5	4751.2	4970.3	5463.1	7108.7	11510.8	21054.2	31122.1
15°	5654.4	5438.4	5023.2	4796.2	4882.4	5295.8	6415.7	11510.8	23360.1	38101.4	54653.5
12.5°	5593.9	5302.1	4861.1	4741.4	5028.6	5723.0	10041.2	21054.2	38101.4	58673.7	93519.8
10°	5521.9	5150.7	4819.0	4853.6	5301.9	7206.7	14331.4	31122.1	54653.5	93519.8	140829.8
7.5°	5464.9	5030.6	4785.4	4943.9	5568.1	9492.1	21709.6	43059.8	76634.4	127813.1	197746.6
5°	5423.7	4943.5	4761.0	5009.8	5763.2	11177.0	27191.1	52232.8	97112.7	162428.1	255709.1
2.5°	5398.8	4890.7	4746.2	5049.9	5882.4	12210.7	30573.6	57939.6	110006.5	187385.2	299072.7
0°	5390.4	4873.0	4741.2	5063.4	5922.5	12559.2	31717.7	59878.6	114417.3	196855.0	314562.2
-2.5°	5398.8	4890.7	4746.2	5049.9	5882.4	12210.7	30573.6	57939.6	110006.5	187385.2	299072.7
-5°	5423.7	4943.5	4761.0	5009.8	5763.2	11177.0	27191.1	52232.8	97112.7	162428.1	255709.1
-7.5°	5464.9	5030.6	4785.4	4943.9	5568.1	9492.1	21709.6	43059.8	76634.4	127813.1	197746.6
-10°	5521.9	5150.7	4819.0	4853.6	5301.9	7206.7	14331.4	31122.1	54653.5	93519.8	140829.8
-12.5°	5593.9	5302.1	4861.1	4741.4	5028.6	5723.0	10041.2	21054.2	38101.4	58673.7	93519.8
-15°	5654.4	5438.4	5023.2	4796.2	4882.4	5295.8	6415.7	11510.8	23360.1	38101.4	54653.5
-17.5°	5633.2	5546.3	5248.8	4858.5	4751.2	4970.3	5463.1	7108.7	11510.8	21054.2	31122.1
-20°	5609.5	5657.1	5447.5	5087.9	4826.0	4772.9	5000.1	5463.1	6415.7	10041.2	14331.4



REPORT NUMBER: P701457 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-1S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5542.3	5629.0	5590.2	5383.4	5005.8	4815.0	4772.9	4970.3	5295.8	5723.0	7206.7
-25°	5451.5	5591.1	5640.9	5551.0	5343.9	5005.8	4826.0	4751.2	4882.4	5028.6	5301.9
-27.5°	5311.0	5487.2	5606.2	5644.9	5551.0	5383.4	5087.9	4858.5	4796.2	4741.4	4853.6
-30°	5139.7	5349.5	5499.2	5606.2	5640.9	5590.2	5447.5	5248.8	5023.2	4861.1	4819.0
-32.5°	4362.5	5158.4	5349.5	5487.2	5591.1	5629.0	5657.1	5546.3	5438.4	5302.1	5150.7
-35°	3424.4	4362.5	5139.7	5311.0	5451.5	5542.3	5609.5	5633.2	5654.4	5593.9	5521.9
-37.5°	2320.2	3323.8	4188.2	4958.0	5235.0	5375.6	5470.9	5541.3	5602.5	5619.3	5633.4
-40°	1839.1	2124.4	3024.3	3843.6	4519.4	5123.2	5243.2	5351.4	5436.2	5485.8	5527.1
-42.5°	1686.4	1796.2	1922.8	2532.1	3276.0	3919.1	4452.1	4931.9	5166.8	5242.7	5305.7
-45°	1624.7	1667.4	1725.5	1836.9	1940.9	2496.2	3079.4	3603.0	4003.5	4338.6	4616.1
-47.5°	1574.4	1603.9	1639.2	1674.6	1724.9	1813.9	1894.9	2034.3	2459.4	2823.6	3124.7
-50°	1487.4	1554.2	1580.2	1604.6	1633.0	1661.1	1686.6	1730.4	1789.2	1839.5	1881.0
-52.5°	1337.5	1417.0	1491.0	1550.4	1571.4	1590.6	1608.0	1628.1	1646.5	1662.3	1675.2
-55°	1164.3	1247.5	1325.8	1392.2	1451.4	1505.7	1548.7	1563.0	1575.5	1586.2	1595.0
-57.5°	978.9	1061.4	1137.4	1204.6	1266.8	1323.8	1371.6	1411.7	1446.8	1476.8	1501.5
-60°	790.2	863.2	934.0	1000.2	1061.4	1117.3	1164.3	1206.2	1242.7	1273.9	1299.6
-62.5°	607.9	669.8	732.1	790.2	843.8	893.7	939.6	980.4	1016.1	1046.5	1071.4
-65°	451.4	501.2	547.8	591.3	631.7	675.8	715.7	751.1	782.0	808.4	830.0
-67.5°	306.1	346.6	384.6	419.9	454.5	487.2	516.6	542.8	565.7	585.1	601.1
-70°	184.9	211.4	236.1	262.2	290.9	317.1	340.7	361.7	380.0	395.5	408.3
-72.5°	97.9	109.1	122.2	142.2	160.6	177.4	192.6	206.1	217.8	227.8	236.0
-75°	50.1	54.9	63.9	72.2	79.8	86.8	93.1	98.7	103.5	107.6	111.0
-77.5°	34.2	36.6	38.8	40.9	42.8	44.5	46.1	47.5	48.7	49.7	50.6
-80°	24.3	25.4	26.4	27.3	28.2	29.0	29.7	30.4	30.9	31.4	31.8
-82.5°	15.9	16.6	17.2	17.9	18.4	19.0	19.4	19.8	20.2	20.5	20.8
-85°	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3
-87.5°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
-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: P701457 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-1S-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°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9
82.5°	20.9	21.1	21.2	21.2	21.2	21.1	20.9	20.8	20.5	20.2	19.8
80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.9	30.4
77.5°	51.2	51.7	52.0	52.1	52.0	51.7	51.2	50.6	49.7	48.7	47.5
75°	113.7	115.6	116.7	117.1	116.7	115.6	113.7	111.0	107.6	103.5	98.7
72.5°	242.4	246.9	249.7	250.6	249.7	246.9	242.4	236.0	227.8	217.8	206.1
70°	418.3	425.5	429.8	431.2	429.8	425.5	418.3	408.3	395.5	380.0	361.7
67.5°	613.6	622.5	627.9	629.7	627.9	622.5	613.6	601.1	585.1	565.7	542.8
65°	847.0	859.1	866.4	868.8	866.4	859.1	847.0	830.0	808.4	782.0	751.1
62.5°	1091.0	1105.0	1113.4	1116.2	1113.4	1105.0	1091.0	1071.4	1046.5	1016.1	980.4
60°	1319.7	1334.1	1342.7	1345.6	1342.7	1334.1	1319.7	1299.6	1273.9	1242.7	1206.2
57.5°	1520.7	1534.6	1542.9	1545.7	1542.9	1534.6	1520.7	1501.5	1476.8	1446.8	1411.7
55°	1601.9	1606.8	1609.8	1610.8	1609.8	1606.8	1601.9	1595.0	1586.2	1575.5	1563.0
52.5°	1685.4	1692.7	1697.1	1698.6	1697.1	1692.7	1685.4	1675.2	1662.3	1646.5	1628.1
50°	1913.5	1936.9	1951.0	1955.7	1951.0	1936.9	1913.5	1881.0	1839.5	1789.2	1730.4
47.5°	3361.0	3530.8	3633.2	3667.4	3633.2	3530.8	3361.0	3124.7	2823.6	2459.4	2034.3
45°	4834.1	4990.9	5085.5	5117.1	5085.5	4990.9	4834.1	4616.1	4338.6	4003.5	3603.0
42.5°	5355.3	5391.0	5412.5	5419.7	5412.5	5391.0	5355.3	5305.7	5242.7	5166.8	4931.9
40°	5559.6	5583.0	5597.2	5601.9	5597.2	5583.0	5559.6	5527.1	5485.8	5436.2	5351.4
37.5°	5644.4	5652.4	5657.3	5658.9	5657.3	5652.4	5644.4	5633.4	5619.3	5602.5	5541.3
35°	5464.9	5423.7	5398.8	5390.4	5398.8	5423.7	5464.9	5521.9	5593.9	5654.4	5633.2
32.5°	5030.6	4943.5	4890.7	4873.0	4890.7	4943.5	5030.6	5150.7	5302.1	5438.4	5546.3
30°	4785.4	4761.0	4746.2	4741.2	4746.2	4761.0	4785.4	4819.0	4861.1	5023.2	5248.8
27.5°	4943.9	5009.8	5049.9	5063.4	5049.9	5009.8	4943.9	4853.6	4741.4	4796.2	4858.5
25°	5568.1	5763.2	5882.4	5922.5	5882.4	5763.2	5568.1	5301.9	5028.6	4882.4	4751.2
22.5°	9492.1	11177.0	12210.7	12559.2	12210.7	11177.0	9492.1	7206.7	5723.0	5295.8	4970.3
20°	21709.6	27191.1	30573.6	31717.7	30573.6	27191.1	21709.6	14331.4	10041.2	6415.7	5463.1
17.5°	43059.8	52232.8	57939.6	59878.6	57939.6	52232.8	43059.8	31122.1	21054.2	11510.8	7108.7
15°	76634.4	97112.7	110006.5	114417.3	110006.5	97112.7	76634.4	54653.5	38101.4	23360.1	11510.8
12.5°	127813.1	162428.1	187385.2	196855.0	187385.2	162428.1	127813.1	93519.8	58673.7	38101.4	21054.2
10°	197746.6	255709.1	299072.7	314562.2	299072.7	255709.1	197746.6	140829.8	93519.8	54653.5	31122.1
7.5°	284495.6	362399.5	417139.2	435776.5	417139.2	362399.5	284495.6	197746.6	127813.1	76634.4	43059.8
5°	362399.5	455799.4	518270.9	541380.9	518270.9	455799.4	362399.5	255709.1	162428.1	97112.7	52232.8
2.5°	417139.2	518270.9	592398.3	627546.9	592398.3	518270.9	417139.2	299072.7	187385.2	110006.5	57939.6
0°	435776.5	541380.9	627546.9	679444.1	627546.9	541380.9	435776.5	314562.2	196855.0	114417.3	59878.6
-2.5°	417139.2	518270.9	592398.3	627546.9	592398.3	518270.9	417139.2	299072.7	187385.2	110006.5	57939.6
-5°	362399.5	455799.4	518270.9	541380.9	518270.9	455799.4	362399.5	255709.1	162428.1	97112.7	52232.8
-7.5°	284495.6	362399.5	417139.2	435776.5	417139.2	362399.5	284495.6	197746.6	127813.1	76634.4	43059.8
-10°	197746.6	255709.1	299072.7	314562.2	299072.7	255709.1	197746.6	140829.8	93519.8	54653.5	31122.1
-12.5°	127813.1	162428.1	187385.2	196855.0	187385.2	162428.1	127813.1	93519.8	58673.7	38101.4	21054.2
-15°	76634.4	97112.7	110006.5	114417.3	110006.5	97112.7	76634.4	54653.5	38101.4	23360.1	11510.8
-17.5°	43059.8	52232.8	57939.6	59878.6	57939.6	52232.8	43059.8	31122.1	21054.2	11510.8	7108.7
-20°	21709.6	27191.1	30573.6	31717.7	30573.6	27191.1	21709.6	14331.4	10041.2	6415.7	5463.1



REPORT NUMBER: P701457 (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°	9492.1	11177.0	12210.7	12559.2	12210.7	11177.0	9492.1	7206.7	5723.0	5295.8	4970.3
-25°	5568.1	5763.2	5882.4	5922.5	5882.4	5763.2	5568.1	5301.9	5028.6	4882.4	4751.2
-27.5°	4943.9	5009.8	5049.9	5063.4	5049.9	5009.8	4943.9	4853.6	4741.4	4796.2	4858.5
-30°	4785.4	4761.0	4746.2	4741.2	4746.2	4761.0	4785.4	4819.0	4861.1	5023.2	5248.8
-32.5°	5030.6	4943.5	4890.7	4873.0	4890.7	4943.5	5030.6	5150.7	5302.1	5438.4	5546.3
-35°	5464.9	5423.7	5398.8	5390.4	5398.8	5423.7	5464.9	5521.9	5593.9	5654.4	5633.2
-37.5°	5644.4	5652.4	5657.3	5658.9	5657.3	5652.4	5644.4	5633.4	5619.3	5602.5	5541.3
-40°	5559.6	5583.0	5597.2	5601.9	5597.2	5583.0	5559.6	5527.1	5485.8	5436.2	5351.4
-42.5°	5355.3	5391.0	5412.5	5419.7	5412.5	5391.0	5355.3	5305.7	5242.7	5166.8	4931.9
-45°	4834.1	4990.9	5085.5	5117.1	5085.5	4990.9	4834.1	4616.1	4338.6	4003.5	3603.0
-47.5°	3361.0	3530.8	3633.2	3667.4	3633.2	3530.8	3361.0	3124.7	2823.6	2459.4	2034.3
-50°	1913.5	1936.9	1951.0	1955.7	1951.0	1936.9	1913.5	1881.0	1839.5	1789.2	1730.4
-52.5°	1685.4	1692.7	1697.1	1698.6	1697.1	1692.7	1685.4	1675.2	1662.3	1646.5	1628.1
-55°	1601.9	1606.8	1609.8	1610.8	1609.8	1606.8	1601.9	1595.0	1586.2	1575.5	1563.0
-57.5°	1520.7	1534.6	1542.9	1545.7	1542.9	1534.6	1520.7	1501.5	1476.8	1446.8	1411.7
-60°	1319.7	1334.1	1342.7	1345.6	1342.7	1334.1	1319.7	1299.6	1273.9	1242.7	1206.2
-62.5°	1091.0	1105.0	1113.4	1116.2	1113.4	1105.0	1091.0	1071.4	1046.5	1016.1	980.4
-65°	847.0	859.1	866.4	868.8	866.4	859.1	847.0	830.0	808.4	782.0	751.1
-67.5°	613.6	622.5	627.9	629.7	627.9	622.5	613.6	601.1	585.1	565.7	542.8
-70°	418.3	425.5	429.8	431.2	429.8	425.5	418.3	408.3	395.5	380.0	361.7
-72.5°	242.4	246.9	249.7	250.6	249.7	246.9	242.4	236.0	227.8	217.8	206.1
-75°	113.7	115.6	116.7	117.1	116.7	115.6	113.7	111.0	107.6	103.5	98.7
-77.5°	51.2	51.7	52.0	52.1	52.0	51.7	51.2	50.6	49.7	48.7	47.5
-80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.9	30.4
-82.5°	20.9	21.1	21.2	21.2	21.2	21.1	20.9	20.8	20.5	20.2	19.8
-85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9
-87.5°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
-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):**

	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°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
85°	10.8	10.7	10.5	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5
82.5°	19.4	19.0	18.4	17.9	17.2	16.6	15.9	15.1	14.3	13.4	12.6
80°	29.7	29.0	28.2	27.3	26.4	25.4	24.3	23.1	21.9	20.6	19.4
77.5°	46.1	44.5	42.8	40.9	38.8	36.6	34.2	32.0	30.4	28.8	27.1
75°	93.1	86.8	79.8	72.2	63.9	54.9	50.1	47.0	43.8	40.3	36.8
72.5°	192.6	177.4	160.6	142.2	122.2	109.1	97.9	85.9	73.4	60.1	50.3
70°	340.7	317.1	290.9	262.2	236.1	211.4	184.9	156.8	127.2	106.8	91.0
67.5°	516.6	487.2	454.5	419.9	384.6	346.6	306.1	263.2	226.4	191.2	154.5
65°	715.7	675.8	631.7	591.3	547.8	501.2	451.4	401.6	351.0	297.9	244.6
62.5°	939.6	893.7	843.8	790.2	732.1	669.8	607.9	549.5	488.0	424.2	363.1
60°	1164.3	1117.3	1061.4	1000.2	934.0	863.2	790.2	713.0	631.7	560.8	487.2
57.5°	1371.6	1323.8	1266.8	1204.6	1137.4	1061.4	978.9	891.7	802.3	709.8	616.1
55°	1548.7	1505.7	1451.4	1392.2	1325.8	1247.5	1164.3	1073.5	974.2	870.5	766.2
52.5°	1608.0	1590.6	1571.4	1550.4	1491.0	1417.0	1337.5	1242.7	1143.4	1033.9	918.0
50°	1686.6	1661.1	1633.0	1604.6	1580.2	1554.2	1487.4	1398.5	1299.6	1188.6	1070.1
47.5°	1894.9	1813.9	1724.9	1674.6	1639.2	1603.9	1574.4	1538.5	1439.0	1334.1	1211.3
45°	3079.4	2496.2	1940.9	1836.9	1725.5	1667.4	1624.7	1588.0	1553.5	1459.4	1345.6
42.5°	4452.1	3919.1	3276.0	2532.1	1922.8	1796.2	1686.4	1638.8	1594.9	1556.8	1459.4
40°	5243.2	5123.2	4519.4	3843.6	3024.3	2124.4	1839.1	1696.0	1643.5	1594.9	1553.5
37.5°	5470.9	5375.6	5235.0	4958.0	4188.2	3323.8	2320.2	1853.5	1696.0	1638.8	1588.0
35°	5609.5	5542.3	5451.5	5311.0	5139.7	4362.5	3424.4	2320.2	1839.1	1686.4	1624.7
32.5°	5657.1	5629.0	5591.1	5487.2	5349.5	5158.4	4362.5	3323.8	2124.4	1796.2	1667.4
30°	5447.5	5590.2	5640.9	5606.2	5499.2	5349.5	5139.7	4188.2	3024.3	1922.8	1725.5
27.5°	5087.9	5383.4	5551.0	5644.9	5606.2	5487.2	5311.0	4958.0	3843.6	2532.1	1836.9
25°	4826.0	5005.8	5343.9	5551.0	5640.9	5591.1	5451.5	5235.0	4519.4	3276.0	1940.9
22.5°	4772.9	4815.0	5005.8	5383.4	5590.2	5629.0	5542.3	5375.6	5123.2	3919.1	2496.2
20°	5000.1	4772.9	4826.0	5087.9	5447.5	5657.1	5609.5	5470.9	5243.2	4452.1	3079.4
17.5°	5463.1	4970.3	4751.2	4858.5	5248.8	5546.3	5633.2	5541.3	5351.4	4931.9	3603.0
15°	6415.7	5295.8	4882.4	4796.2	5023.2	5438.4	5654.4	5602.5	5436.2	5166.8	4003.5
12.5°	10041.2	5723.0	5028.6	4741.4	4861.1	5302.1	5593.9	5619.3	5485.8	5242.7	4338.6
10°	14331.4	7206.7	5301.9	4853.6	4819.0	5150.7	5521.9	5633.4	5527.1	5305.7	4616.1
7.5°	21709.6	9492.1	5568.1	4943.9	4785.4	5030.6	5464.9	5644.4	5559.6	5355.3	4834.1
5°	27191.1	11177.0	5763.2	5009.8	4761.0	4943.5	5423.7	5652.4	5583.0	5391.0	4990.9
2.5°	30573.6	12210.7	5882.4	5049.9	4746.2	4890.7	5398.8	5657.3	5597.2	5412.5	5085.5
0°	31717.7	12559.2	5922.5	5063.4	4741.2	4873.0	5390.4	5658.9	5601.9	5419.7	5117.1
-2.5°	30573.6	12210.7	5882.4	5049.9	4746.2	4890.7	5398.8	5657.3	5597.2	5412.5	5085.5
-5°	27191.1	11177.0	5763.2	5009.8	4761.0	4943.5	5423.7	5652.4	5583.0	5391.0	4990.9
-7.5°	21709.6	9492.1	5568.1	4943.9	4785.4	5030.6	5464.9	5644.4	5559.6	5355.3	4834.1
-10°	14331.4	7206.7	5301.9	4853.6	4819.0	5150.7	5521.9	5633.4	5527.1	5305.7	4616.1
-12.5°	10041.2	5723.0	5028.6	4741.4	4861.1	5302.1	5593.9	5619.3	5485.8	5242.7	4338.6
-15°	6415.7	5295.8	4882.4	4796.2	5023.2	5438.4	5654.4	5602.5	5436.2	5166.8	4003.5
-17.5°	5463.1	4970.3	4751.2	4858.5	5248.8	5546.3	5633.2	5541.3	5351.4	4931.9	3603.0
-20°	5000.1	4772.9	4826.0	5087.9	5447.5	5657.1	5609.5	5470.9	5243.2	4452.1	3079.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4772.9	4815.0	5005.8	5383.4	5590.2	5629.0	5542.3	5375.6	5123.2	3919.1	2496.2
-25°	4826.0	5005.8	5343.9	5551.0	5640.9	5591.1	5451.5	5235.0	4519.4	3276.0	1940.9
-27.5°	5087.9	5383.4	5551.0	5644.9	5606.2	5487.2	5311.0	4958.0	3843.6	2532.1	1836.9
-30°	5447.5	5590.2	5640.9	5606.2	5499.2	5349.5	5139.7	4188.2	3024.3	1922.8	1725.5
-32.5°	5657.1	5629.0	5591.1	5487.2	5349.5	5158.4	4362.5	3323.8	2124.4	1796.2	1667.4
-35°	5609.5	5542.3	5451.5	5311.0	5139.7	4362.5	3424.4	2320.2	1839.1	1686.4	1624.7
-37.5°	5470.9	5375.6	5235.0	4958.0	4188.2	3323.8	2320.2	1853.5	1696.0	1638.8	1588.0
-40°	5243.2	5123.2	4519.4	3843.6	3024.3	2124.4	1839.1	1696.0	1643.5	1594.9	1553.5
-42.5°	4452.1	3919.1	3276.0	2532.1	1922.8	1796.2	1686.4	1638.8	1594.9	1556.8	1459.4
-45°	3079.4	2496.2	1940.9	1836.9	1725.5	1667.4	1624.7	1588.0	1553.5	1459.4	1345.6
-47.5°	1894.9	1813.9	1724.9	1674.6	1639.2	1603.9	1574.4	1538.5	1439.0	1334.1	1211.3
-50°	1686.6	1661.1	1633.0	1604.6	1580.2	1554.2	1487.4	1398.5	1299.6	1188.6	1070.1
-52.5°	1608.0	1590.6	1571.4	1550.4	1491.0	1417.0	1337.5	1242.7	1143.4	1033.9	918.0
-55°	1548.7	1505.7	1451.4	1392.2	1325.8	1247.5	1164.3	1073.5	974.2	870.5	766.2
-57.5°	1371.6	1323.8	1266.8	1204.6	1137.4	1061.4	978.9	891.7	802.3	709.8	616.1
-60°	1164.3	1117.3	1061.4	1000.2	934.0	863.2	790.2	713.0	631.7	560.8	487.2
-62.5°	939.6	893.7	843.8	790.2	732.1	669.8	607.9	549.5	488.0	424.2	363.1
-65°	715.7	675.8	631.7	591.3	547.8	501.2	451.4	401.6	351.0	297.9	244.6
-67.5°	516.6	487.2	454.5	419.9	384.6	346.6	306.1	263.2	226.4	191.2	154.5
-70°	340.7	317.1	290.9	262.2	236.1	211.4	184.9	156.8	127.2	106.8	91.0
-72.5°	192.6	177.4	160.6	142.2	122.2	109.1	97.9	85.9	73.4	60.1	50.3
-75°	93.1	86.8	79.8	72.2	63.9	54.9	50.1	47.0	43.8	40.3	36.8
-77.5°	46.1	44.5	42.8	40.9	38.8	36.6	34.2	32.0	30.4	28.8	27.1
-80°	29.7	29.0	28.2	27.3	26.4	25.4	24.3	23.1	21.9	20.6	19.4
-82.5°	19.4	19.0	18.4	17.9	17.2	16.6	15.9	15.1	14.3	13.4	12.6
-85°	10.8	10.7	10.5	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5
-87.5°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
-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: P701457 (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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
85°	8.2	7.9	7.6	7.2	6.9	6.5	6.0	5.5	5.0	4.4	3.9
82.5°	11.6	11.0	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	5.8
80°	18.2	16.9	15.6	14.2	12.8	11.4	10.6	9.8	9.1	8.3	7.5
77.5°	25.3	23.4	21.5	19.8	18.0	16.2	14.3	12.4	10.9	9.9	8.9
75°	33.1	30.6	28.3	25.9	23.4	20.9	18.7	16.4	14.1	11.7	10.3
72.5°	46.0	41.5	36.8	32.2	29.3	26.4	23.4	20.4	17.7	14.9	12.1
70°	74.5	57.3	48.3	42.8	37.1	31.8	28.4	24.9	21.3	18.1	14.9
67.5°	116.7	97.3	77.4	56.8	47.1	40.6	33.9	29.4	25.4	21.3	17.7
65°	202.0	157.8	114.7	91.8	68.3	49.7	42.3	34.8	29.4	24.9	20.4
62.5°	299.5	238.1	187.9	136.2	100.6	74.2	50.6	42.3	33.9	28.4	23.4
60°	412.6	340.7	266.6	206.1	148.3	103.5	74.2	49.7	40.6	31.8	26.4
57.5°	533.2	447.4	365.6	283.1	212.1	148.3	100.6	68.3	47.1	37.1	29.3
55°	658.3	561.0	465.9	373.9	283.1	206.1	136.2	91.8	56.8	42.8	32.2
52.5°	800.4	680.9	570.3	465.9	365.6	266.6	187.9	114.7	77.4	48.3	36.8
50°	941.9	811.8	680.9	561.0	447.4	340.7	238.1	157.8	97.3	57.3	41.5
47.5°	1082.2	941.9	800.4	658.3	533.2	412.6	299.5	202.0	116.7	74.5	46.0
45°	1211.3	1070.1	918.0	766.2	616.1	487.2	363.1	244.6	154.5	91.0	50.3
42.5°	1334.1	1188.6	1033.9	870.5	709.8	560.8	424.2	297.9	191.2	106.8	60.1
40°	1439.0	1299.6	1143.4	974.2	802.3	631.7	488.0	351.0	226.4	127.2	73.4
37.5°	1538.5	1398.5	1242.7	1073.5	891.7	713.0	549.5	401.6	263.2	156.8	85.9
35°	1574.4	1487.4	1337.5	1164.3	978.9	790.2	607.9	451.4	306.1	184.9	97.9
32.5°	1603.9	1554.2	1417.0	1247.5	1061.4	863.2	669.8	501.2	346.6	211.4	109.1
30°	1639.2	1580.2	1491.0	1325.8	1137.4	934.0	732.1	547.8	384.6	236.1	122.2
27.5°	1674.6	1604.6	1550.4	1392.2	1204.6	1000.2	790.2	591.3	419.9	262.2	142.2
25°	1724.9	1633.0	1571.4	1451.4	1266.8	1061.4	843.8	631.7	454.5	290.9	160.6
22.5°	1813.9	1661.1	1590.6	1505.7	1323.8	1117.3	893.7	675.8	487.2	317.1	177.4
20°	1894.9	1686.6	1608.0	1548.7	1371.6	1164.3	939.6	715.7	516.6	340.7	192.6
17.5°	2034.3	1730.4	1628.1	1563.0	1411.7	1206.2	980.4	751.1	542.8	361.7	206.1
15°	2459.4	1789.2	1646.5	1575.5	1446.8	1242.7	1016.1	782.0	565.7	380.0	217.8
12.5°	2823.6	1839.5	1662.3	1586.2	1476.8	1273.9	1046.5	808.4	585.1	395.5	227.8
10°	3124.7	1881.0	1675.2	1595.0	1501.5	1299.6	1071.4	830.0	601.1	408.3	236.0
7.5°	3361.0	1913.5	1685.4	1601.9	1520.7	1319.7	1091.0	847.0	613.6	418.3	242.4
5°	3530.8	1936.9	1692.7	1606.8	1534.6	1334.1	1105.0	859.1	622.5	425.5	246.9
2.5°	3633.2	1951.0	1697.1	1609.8	1542.9	1342.7	1113.4	866.4	627.9	429.8	249.7
0°	3667.4	1955.7	1698.6	1610.8	1545.7	1345.6	1116.2	868.8	629.7	431.2	250.6
-2.5°	3633.2	1951.0	1697.1	1609.8	1542.9	1342.7	1113.4	866.4	627.9	429.8	249.7
-5°	3530.8	1936.9	1692.7	1606.8	1534.6	1334.1	1105.0	859.1	622.5	425.5	246.9
-7.5°	3361.0	1913.5	1685.4	1601.9	1520.7	1319.7	1091.0	847.0	613.6	418.3	242.4
-10°	3124.7	1881.0	1675.2	1595.0	1501.5	1299.6	1071.4	830.0	601.1	408.3	236.0
-12.5°	2823.6	1839.5	1662.3	1586.2	1476.8	1273.9	1046.5	808.4	585.1	395.5	227.8
-15°	2459.4	1789.2	1646.5	1575.5	1446.8	1242.7	1016.1	782.0	565.7	380.0	217.8
-17.5°	2034.3	1730.4	1628.1	1563.0	1411.7	1206.2	980.4	751.1	542.8	361.7	206.1
-20°	1894.9	1686.6	1608.0	1548.7	1371.6	1164.3	939.6	715.7	516.6	340.7	192.6



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1813.9	1661.1	1590.6	1505.7	1323.8	1117.3	893.7	675.8	487.2	317.1	177.4
-25°	1724.9	1633.0	1571.4	1451.4	1266.8	1061.4	843.8	631.7	454.5	290.9	160.6
-27.5°	1674.6	1604.6	1550.4	1392.2	1204.6	1000.2	790.2	591.3	419.9	262.2	142.2
-30°	1639.2	1580.2	1491.0	1325.8	1137.4	934.0	732.1	547.8	384.6	236.1	122.2
-32.5°	1603.9	1554.2	1417.0	1247.5	1061.4	863.2	669.8	501.2	346.6	211.4	109.1
-35°	1574.4	1487.4	1337.5	1164.3	978.9	790.2	607.9	451.4	306.1	184.9	97.9
-37.5°	1538.5	1398.5	1242.7	1073.5	891.7	713.0	549.5	401.6	263.2	156.8	85.9
-40°	1439.0	1299.6	1143.4	974.2	802.3	631.7	488.0	351.0	226.4	127.2	73.4
-42.5°	1334.1	1188.6	1033.9	870.5	709.8	560.8	424.2	297.9	191.2	106.8	60.1
-45°	1211.3	1070.1	918.0	766.2	616.1	487.2	363.1	244.6	154.5	91.0	50.3
-47.5°	1082.2	941.9	800.4	658.3	533.2	412.6	299.5	202.0	116.7	74.5	46.0
-50°	941.9	811.8	680.9	561.0	447.4	340.7	238.1	157.8	97.3	57.3	41.5
-52.5°	800.4	680.9	570.3	465.9	365.6	266.6	187.9	114.7	77.4	48.3	36.8
-55°	658.3	561.0	465.9	373.9	283.1	206.1	136.2	91.8	56.8	42.8	32.2
-57.5°	533.2	447.4	365.6	283.1	212.1	148.3	100.6	68.3	47.1	37.1	29.3
-60°	412.6	340.7	266.6	206.1	148.3	103.5	74.2	49.7	40.6	31.8	26.4
-62.5°	299.5	238.1	187.9	136.2	100.6	74.2	50.6	42.3	33.9	28.4	23.4
-65°	202.0	157.8	114.7	91.8	68.3	49.7	42.3	34.8	29.4	24.9	20.4
-67.5°	116.7	97.3	77.4	56.8	47.1	40.6	33.9	29.4	25.4	21.3	17.7
-70°	74.5	57.3	48.3	42.8	37.1	31.8	28.4	24.9	21.3	18.1	14.9
-72.5°	46.0	41.5	36.8	32.2	29.3	26.4	23.4	20.4	17.7	14.9	12.1
-75°	33.1	30.6	28.3	25.9	23.4	20.9	18.7	16.4	14.1	11.7	10.3
-77.5°	25.3	23.4	21.5	19.8	18.0	16.2	14.3	12.4	10.9	9.9	8.9
-80°	18.2	16.9	15.6	14.2	12.8	11.4	10.6	9.8	9.1	8.3	7.5
-82.5°	11.6	11.0	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	5.8
-85°	8.2	7.9	7.6	7.2	6.9	6.5	6.0	5.5	5.0	4.4	3.9
-87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
-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):**

	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°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
80°	6.6	5.6	4.5	3.4	2.3	1.1	0.0
77.5°	7.9	6.9	5.6	4.2	2.8	1.4	0.0
75°	9.1	7.9	6.6	5.0	3.4	1.7	0.0
72.5°	10.3	8.9	7.5	5.8	3.9	2.0	0.0
70°	11.7	9.9	8.3	6.6	4.4	2.2	0.0
67.5°	14.1	10.9	9.1	7.2	5.0	2.5	0.0
65°	16.4	12.4	9.8	7.8	5.5	2.7	0.0
62.5°	18.7	14.3	10.6	8.4	6.0	3.0	0.0
60°	20.9	16.2	11.4	8.9	6.5	3.2	0.0
57.5°	23.4	18.0	12.8	9.5	6.9	3.5	0.0
55°	25.9	19.8	14.2	10.0	7.2	3.7	0.0
52.5°	28.3	21.5	15.6	10.5	7.6	4.0	0.0
50°	30.6	23.4	16.9	11.0	7.9	4.2	0.0
47.5°	33.1	25.3	18.2	11.6	8.2	4.4	0.0
45°	36.8	27.1	19.4	12.6	8.5	4.6	0.0
42.5°	40.3	28.8	20.6	13.4	8.8	4.8	0.0
40°	43.8	30.4	21.9	14.3	9.1	5.0	0.0
37.5°	47.0	32.0	23.1	15.1	9.4	5.2	0.0
35°	50.1	34.2	24.3	15.9	9.6	5.3	0.0
32.5°	54.9	36.6	25.4	16.6	9.9	5.5	0.0
30°	63.9	38.8	26.4	17.2	10.1	5.6	0.0
27.5°	72.2	40.9	27.3	17.9	10.3	5.8	0.0
25°	79.8	42.8	28.2	18.4	10.5	5.9	0.0
22.5°	86.8	44.5	29.0	19.0	10.7	6.0	0.0
20°	93.1	46.1	29.7	19.4	10.8	6.1	0.0
17.5°	98.7	47.5	30.4	19.8	10.9	6.2	0.0
15°	103.5	48.7	30.9	20.2	11.1	6.3	0.0
12.5°	107.6	49.7	31.4	20.5	11.2	6.3	0.0
10°	111.0	50.6	31.8	20.8	11.3	6.4	0.0
7.5°	113.7	51.2	32.1	20.9	11.3	6.4	0.0
5°	115.6	51.7	32.3	21.1	11.4	6.5	0.0
2.5°	116.7	52.0	32.5	21.2	11.4	6.5	0.0
0°	117.1	52.1	32.5	21.2	11.4	6.5	0.0
-2.5°	116.7	52.0	32.5	21.2	11.4	6.5	0.0
-5°	115.6	51.7	32.3	21.1	11.4	6.5	0.0
-7.5°	113.7	51.2	32.1	20.9	11.3	6.4	0.0
-10°	111.0	50.6	31.8	20.8	11.3	6.4	0.0
-12.5°	107.6	49.7	31.4	20.5	11.2	6.3	0.0
-15°	103.5	48.7	30.9	20.2	11.1	6.3	0.0
-17.5°	98.7	47.5	30.4	19.8	10.9	6.2	0.0
-20°	93.1	46.1	29.7	19.4	10.8	6.1	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	86.8	44.5	29.0	19.0	10.7	6.0	0.0
-25°	79.8	42.8	28.2	18.4	10.5	5.9	0.0
-27.5°	72.2	40.9	27.3	17.9	10.3	5.8	0.0
-30°	63.9	38.8	26.4	17.2	10.1	5.6	0.0
-32.5°	54.9	36.6	25.4	16.6	9.9	5.5	0.0
-35°	50.1	34.2	24.3	15.9	9.6	5.3	0.0
-37.5°	47.0	32.0	23.1	15.1	9.4	5.2	0.0
-40°	43.8	30.4	21.9	14.3	9.1	5.0	0.0
-42.5°	40.3	28.8	20.6	13.4	8.8	4.8	0.0
-45°	36.8	27.1	19.4	12.6	8.5	4.6	0.0
-47.5°	33.1	25.3	18.2	11.6	8.2	4.4	0.0
-50°	30.6	23.4	16.9	11.0	7.9	4.2	0.0
-52.5°	28.3	21.5	15.6	10.5	7.6	4.0	0.0
-55°	25.9	19.8	14.2	10.0	7.2	3.7	0.0
-57.5°	23.4	18.0	12.8	9.5	6.9	3.5	0.0
-60°	20.9	16.2	11.4	8.9	6.5	3.2	0.0
-62.5°	18.7	14.3	10.6	8.4	6.0	3.0	0.0
-65°	16.4	12.4	9.8	7.8	5.5	2.7	0.0
-67.5°	14.1	10.9	9.1	7.2	5.0	2.5	0.0
-70°	11.7	9.9	8.3	6.6	4.4	2.2	0.0
-72.5°	10.3	8.9	7.5	5.8	3.9	2.0	0.0
-75°	9.1	7.9	6.6	5.0	3.4	1.7	0.0
-77.5°	7.9	6.9	5.6	4.2	2.8	1.4	0.0
-80°	6.6	5.6	4.5	3.4	2.3	1.1	0.0
-82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.8	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

