

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: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-5S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-5S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

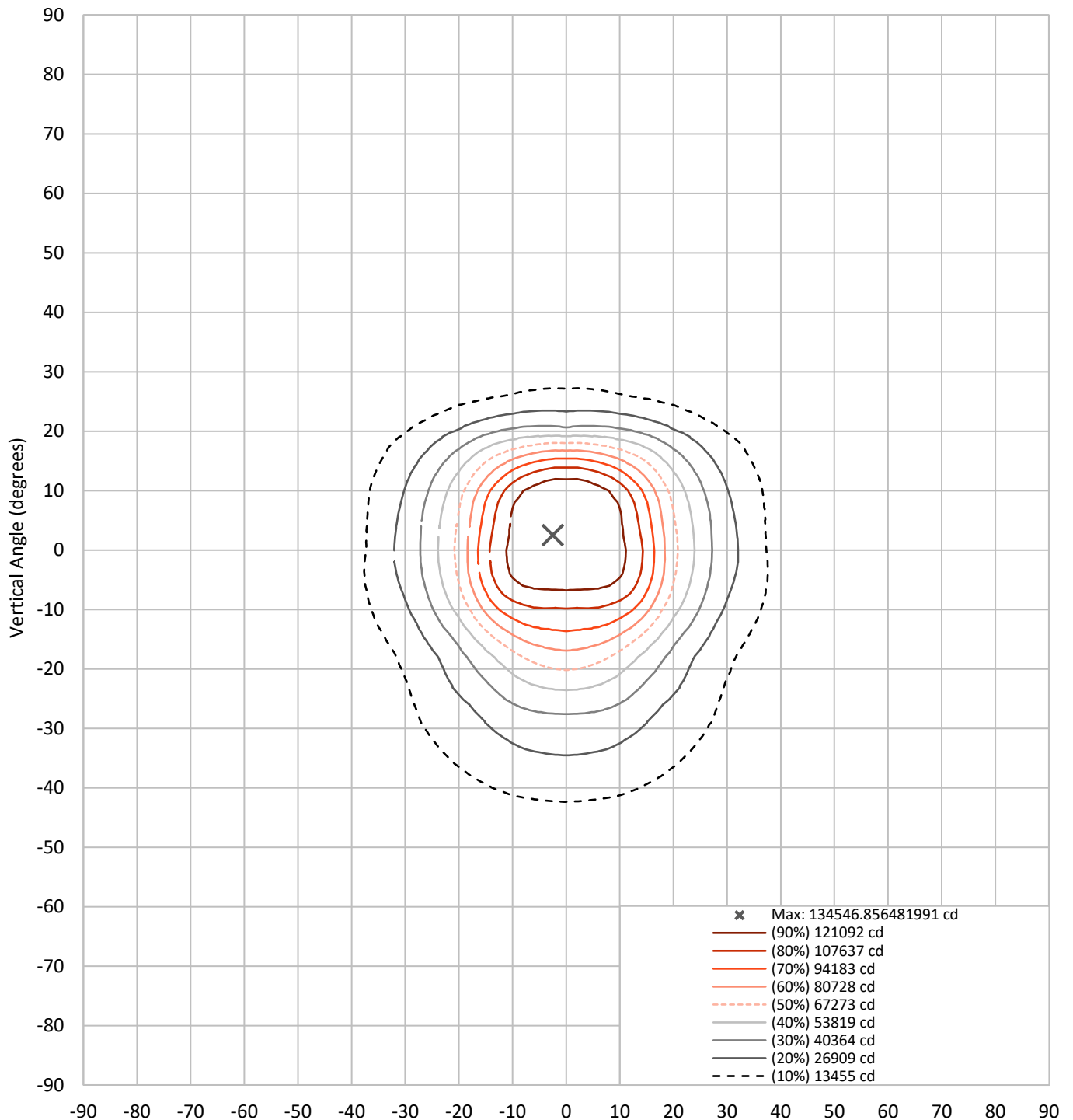
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	71832.5 lumens	Max Intensity:	134546.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 2.5°V
Efficacy:	109.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	39580.1 lumens	Field Lumens:	66802.8 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

Input Watts (W): 658  
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





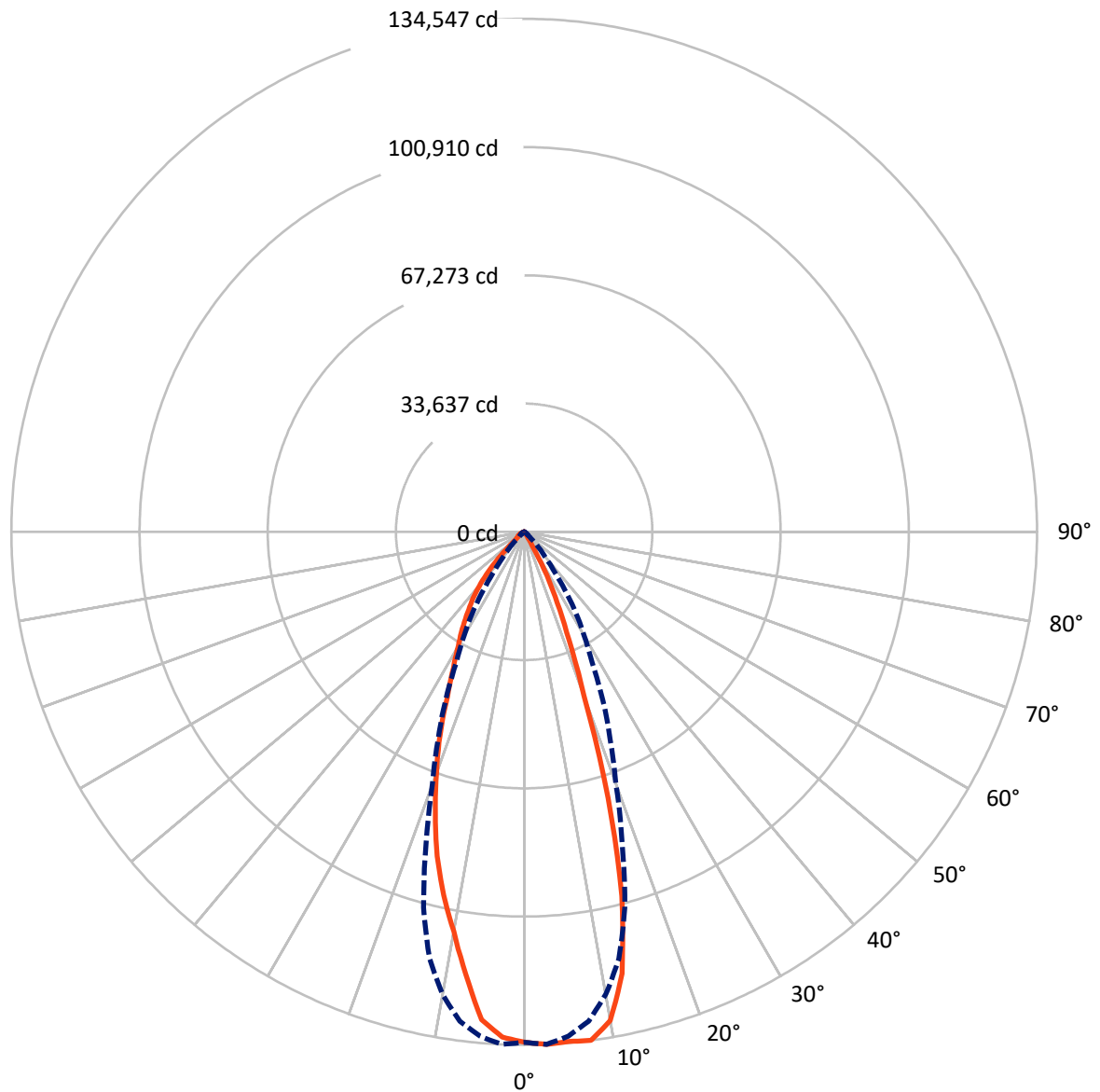
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### Lumen Table

90																
80	0.1	0.3		0.5		0.5		0.4		0.5		0.5		0.3		0.1
70																
60	0.1	0.1	0.1	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.1	0.1	0.1
50		0.1	0.2	0.7	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.2	0.1	
40	0.1	0.1	0.3	0.5	0.7	1.0	1.1	1.1	1.1	1.1	1.0	0.7	0.5	0.3	0.1	0.1
30		0.2	0.7	2.2	4.7	10.1	23.9	34.2	34.2	23.9	10.1	4.7	2.2	0.7	0.2	
20	0.2	0.4	3.8	14.3	78.3	240.5	483.9	651.0	651.0	483.9	240.5	78.3	14.3	3.8	0.4	0.2
10		1.1	9.4	51.7	322.8	918.9	1904.9	2743.3	2743.3	1904.9	918.9	322.8	51.7	9.4	1.1	
0	0.2	1.8	12.7	81.7	463.9	1321.9	2856.1	3949.5	3949.5	2856.1	1321.9	463.9	81.7	12.7	1.8	0.2
-10		2.2	13.6	85.4	467.3	1288.7	2814.6	3730.6	3730.6	2814.6	1288.7	467.3	85.4	13.6	2.2	
-20	0.4	2.6	13.0	57.4	307.2	850.0	1808.2	2571.9	2571.9	1808.2	850.0	307.2	57.4	13.0	2.6	0.4
-30		2.5	12.4	31.9	181.0	520.6	1011.9	1431.1	1431.1	1011.9	520.6	181.0	31.9	12.4	2.5	
-40	0.3	2.0	10.0	23.8	72.8	287.0	560.0	766.3	766.3	560.0	287.0	72.8	23.8	10.0	2.0	0.3
-50		1.3	6.5	18.6	35.8	66.8	158.2	245.9	245.9	158.2	66.8	35.8	18.6	6.5	1.3	
-60	0.2	0.7	3.3	10.1	21.9	35.8	48.8	56.5	56.5	48.8	35.8	21.9	10.1	3.3	0.7	0.2
-70		0.3	1.2	3.4	7.5	12.8	18.9	22.3	22.3	18.9	12.8	7.5	3.4	1.2	0.3	
-80																
-90	0.1	0.7		2.5		6.0		8.1		6.0		2.5		0.7		0.1

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CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

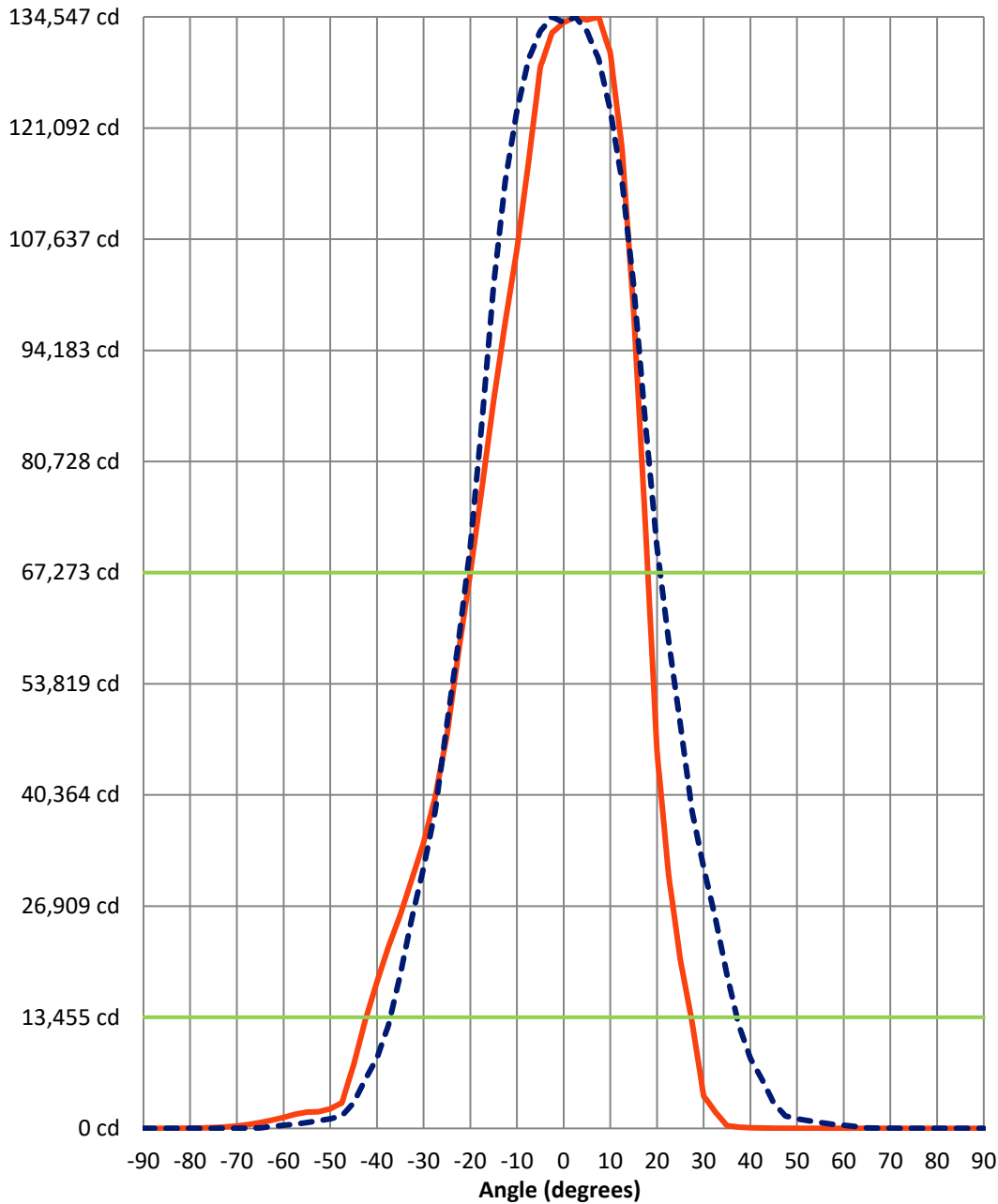
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg    - - - Horizontal Distribution Through 2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.4°  
 V Angle: 38°  
 Lumens: 39580.1  
 Efficiency: 55.1%

**Field:**  
 H Angle: 74.2°  
 V Angle: 69.6°  
 Lumens: 66802.8  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 5029.6  
 Efficiency: 7.0%

— Vertical Distribution through -2.5-Deg  
 - - - Horizontal Distribution through 2.5-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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.8	4.3	3.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.8	4.3	3.8
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.5	4.4
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.4	5.2	5.1	5.2
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.6	5.5	5.7	5.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
57.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.9	5.8	5.8	5.8	6.0
55°	5.8	5.8	5.8	5.8	5.8	5.8	6.0	5.9	5.8	5.9	6.3
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.2	6.0	5.8	6.3	6.7
50°	5.8	5.8	5.8	5.8	5.8	6.0	6.3	6.1	5.9	6.8	7.7
47.5°	5.8	5.8	5.8	5.8	5.8	6.2	6.5	6.2	6.5	7.3	8.6
45°	5.8	5.8	5.8	5.8	5.8	6.4	6.6	6.3	7.0	8.1	9.5
42.5°	5.8	5.8	5.8	5.8	5.8	6.6	6.7	6.6	7.6	8.7	10.1
40°	5.8	5.8	5.8	5.8	5.9	6.9	6.8	7.1	8.2	9.3	10.7
37.5°	5.8	5.8	5.8	5.9	6.1	7.1	6.9	7.6	8.7	9.9	11.2
35°	5.8	5.8	5.8	5.9	6.3	7.3	7.0	8.0	9.3	10.6	11.9
32.5°	5.8	5.8	5.8	6.0	6.5	7.4	7.2	8.5	9.8	11.3	13.5
30°	5.8	5.8	5.8	6.1	6.7	7.4	7.5	8.9	10.3	12.1	15.4
27.5°	5.8	5.8	5.8	6.2	6.9	7.5	7.9	9.3	10.8	13.0	17.5
25°	5.8	5.8	5.8	6.3	7.1	7.6	8.2	9.7	11.5	14.4	20.0
22.5°	5.8	5.8	5.8	6.4	7.2	7.7	8.6	10.1	12.2	16.2	24.5
20°	5.8	5.8	5.8	6.6	7.4	7.7	8.9	10.5	12.8	18.2	29.4
17.5°	5.8	5.8	5.8	6.7	7.5	7.7	9.1	10.8	13.5	20.2	34.5
15°	5.8	5.8	5.8	6.8	7.6	7.7	9.2	11.0	14.2	22.2	39.9
12.5°	5.8	5.8	5.8	7.0	7.6	7.7	9.3	11.2	14.8	24.2	45.2
10°	5.8	5.8	5.8	7.1	7.7	7.7	9.4	11.3	15.4	26.5	50.4
7.5°	5.8	5.8	5.8	7.3	7.7	7.7	9.5	11.4	15.9	28.7	55.3
5°	5.8	5.8	5.8	7.4	7.7	7.7	9.6	11.4	16.4	30.9	59.8
2.5°	5.8	5.8	5.8	7.6	7.7	7.7	9.6	11.5	16.9	32.9	63.9
0°	5.8	5.8	5.8	7.7	7.7	7.7	9.6	11.5	17.3	34.6	67.3
-2.5°	5.8	5.8	5.9	7.7	7.7	7.9	10.1	13.6	23.2	45.2	84.0
-5°	5.8	5.8	6.0	7.7	7.7	8.1	10.6	15.6	28.8	55.1	99.6
-7.5°	5.8	5.8	6.0	7.7	7.7	8.3	11.0	17.5	33.9	64.4	113.9
-10°	5.8	5.8	6.1	7.6	7.7	8.5	11.4	19.1	38.5	72.5	126.5
-12.5°	5.8	5.8	6.2	7.6	7.7	8.6	11.7	20.4	42.2	79.6	138.6
-15°	5.8	5.8	6.3	7.6	7.7	8.7	12.0	21.4	45.7	86.5	148.9
-17.5°	5.8	5.8	6.3	7.6	7.7	8.8	12.1	23.0	49.1	91.8	156.4
-20°	5.8	5.8	6.4	7.5	7.7	8.8	12.6	24.9	51.4	95.3	160.9



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.8	5.8	6.4	7.5	7.7	8.8	13.6	26.3	52.5	96.8	161.9
-25°	5.8	5.8	6.5	7.5	7.7	9.0	14.3	27.0	52.4	96.2	159.4
-27.5°	5.8	5.8	6.5	7.5	7.7	9.2	14.7	27.0	51.0	94.5	158.3
-30°	5.8	5.8	6.5	7.5	7.7	9.2	14.7	26.4	50.1	92.7	154.6
-32.5°	5.8	5.8	6.5	7.5	7.8	9.1	14.3	26.2	49.3	89.1	147.8
-35°	5.8	5.8	6.5	7.6	7.9	8.9	14.1	25.8	47.5	83.5	138.0
-37.5°	5.8	5.8	6.5	7.6	7.9	8.7	13.8	24.8	44.7	76.1	125.4
-40°	5.8	5.8	6.4	7.7	8.0	8.8	13.3	23.2	40.8	70.5	113.0
-42.5°	5.8	5.8	6.4	7.7	8.0	8.8	12.5	21.1	37.6	64.0	99.1
-45°	5.8	5.8	6.4	7.7	8.0	8.8	11.5	19.0	34.4	56.4	84.7
-47.5°	5.8	5.8	6.3	7.7	8.0	8.8	10.3	17.5	30.4	48.2	75.4
-50°	5.8	5.8	6.2	7.6	8.0	8.8	10.0	15.6	25.5	42.5	65.1
-52.5°	5.8	5.8	6.1	7.4	7.9	8.7	9.9	13.5	22.0	36.2	54.5
-55°	5.8	5.8	6.0	7.2	7.9	8.6	9.7	11.3	19.0	29.2	46.3
-57.5°	5.8	5.8	5.9	7.1	7.8	8.4	9.5	10.9	15.7	24.4	37.4
-60°	5.8	5.8	5.8	6.9	7.7	8.2	9.2	10.6	12.8	20.1	29.3
-62.5°	5.8	5.8	5.8	6.7	7.5	8.0	8.9	10.1	12.1	15.5	23.8
-65°	5.8	5.8	5.8	6.6	7.3	7.8	8.5	9.6	11.2	13.6	17.9
-67.5°	5.8	5.8	5.8	6.4	7.2	7.6	8.2	9.2	10.3	12.3	14.9
-70°	5.8	5.8	5.8	6.2	7.0	7.5	7.8	8.7	9.7	10.8	13.0
-72.5°	5.8	5.8	5.8	6.2	6.9	7.4	7.7	8.2	9.2	10.2	11.2
-75°	5.8	5.8	5.8	6.1	6.7	7.3	7.7	8.0	8.6	9.5	10.4
-77.5°	5.8	5.8	5.8	6.1	6.6	7.2	7.7	7.9	8.3	8.9	9.7
-80°	5.8	5.8	5.8	6.0	6.4	7.0	7.7	7.8	8.0	8.4	9.0
-82.5°	5.8	5.8	5.8	6.0	6.3	6.7	7.3	7.5	7.7	7.9	8.2
-85°	5.8	5.8	5.8	5.9	6.1	6.4	6.8	6.9	7.1	7.3	7.4
-87.5°	5.8	5.8	5.8	5.9	6.0	6.1	6.3	6.4	6.4	6.5	6.6
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.8	4.3	3.8





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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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	4.4	4.3	4.1	3.8	3.8	3.8	3.8	4.0	4.1	4.1	4.0
80°	5.1	4.9	4.4	3.9	4.0	4.3	4.8	5.4	5.3	4.9	4.6
77.5°	5.4	4.9	4.4	3.9	4.2	4.9	5.4	5.7	5.7	5.6	5.7
75°	5.5	5.0	4.7	4.7	5.2	5.6	5.8	6.2	6.4	6.5	6.3
72.5°	5.6	5.4	5.4	5.8	5.8	6.1	6.6	7.3	7.7	7.6	7.5
70°	5.7	5.8	5.8	5.8	5.9	6.6	7.5	8.5	9.2	9.5	10.5
67.5°	5.8	5.8	5.8	5.9	6.6	7.7	8.7	11.0	13.8	15.0	16.0
65°	5.8	5.8	6.0	6.7	7.6	9.1	11.5	14.9	20.5	23.3	24.5
62.5°	5.8	5.9	6.4	7.5	8.6	10.6	15.5	21.8	29.0	33.0	32.2
60°	5.8	6.0	7.3	8.7	10.2	14.5	20.9	28.3	37.5	44.0	39.5
57.5°	6.0	6.8	8.7	10.5	13.7	18.0	24.5	33.4	42.7	52.6	45.5
55°	6.7	8.4	10.2	12.8	16.3	19.6	26.1	34.4	44.7	51.0	44.8
52.5°	8.0	9.8	11.5	14.5	17.9	20.5	24.4	32.2	38.2	43.4	39.9
50°	9.3	10.5	12.4	15.9	18.9	20.5	20.3	26.1	31.2	33.5	33.9
47.5°	10.1	11.3	13.6	17.1	19.5	20.0	18.1	21.1	24.9	27.3	26.5
45°	10.8	12.6	15.1	18.1	19.9	19.2	18.9	17.8	22.6	24.7	25.1
42.5°	11.4	14.0	17.0	19.3	20.1	21.1	21.5	21.6	24.1	28.9	31.3
40°	12.6	15.5	19.3	21.3	21.7	25.0	28.4	31.0	32.7	39.2	43.9
37.5°	13.8	17.9	22.5	25.9	26.5	32.3	37.6	54.5	58.0	53.0	69.7
35°	15.0	20.6	28.4	36.6	41.2	42.7	66.2	89.2	99.1	97.0	111.1
32.5°	16.9	23.5	36.1	54.6	72.9	77.5	102.5	141.5	176.4	190.5	181.8
30°	20.3	30.7	48.5	77.6	118.9	164.3	171.4	214.8	285.2	342.7	428.6
27.5°	25.3	40.0	70.5	119.8	185.9	278.9	301.7	339.4	444.2	588.3	865.2
25°	31.0	63.7	95.6	176.0	298.4	407.5	450.5	521.4	643.0	1109.1	1746.5
22.5°	43.8	95.4	147.2	240.8	429.6	542.3	619.9	739.0	1027.9	1772.2	3013.0
20°	66.6	139.4	212.5	322.5	568.4	684.5	788.8	969.9	1615.0	2998.9	5015.6
17.5°	93.4	186.9	280.0	421.1	643.3	802.0	963.5	1206.7	2231.0	4429.6	7109.0
15°	123.4	237.0	343.5	506.4	708.8	879.5	1104.9	1665.6	3209.0	6063.0	9031.9
12.5°	155.5	288.8	402.9	579.2	769.6	952.3	1220.7	2057.7	4228.5	7547.0	11007.5
10°	188.6	341.2	458.3	640.6	825.4	1019.7	1325.7	2416.1	4947.3	8103.6	11953.8
7.5°	209.1	373.9	503.1	691.7	875.8	1081.2	1418.8	2732.5	5455.9	8384.4	12343.7
5°	224.5	382.2	507.5	706.7	907.9	1130.2	1491.4	2998.0	5772.0	8424.1	12464.1
2.5°	236.3	385.6	508.4	711.3	927.3	1163.3	1516.3	3085.8	5916.9	8501.3	12547.3
0°	244.3	384.7	505.8	709.7	940.5	1188.6	1525.2	3102.3	5920.0	8551.1	12578.5
-2.5°	257.3	398.5	531.5	739.5	955.4	1193.9	1537.7	3189.6	6207.2	9089.4	13527.7
-5°	266.6	408.7	553.0	762.7	964.2	1191.3	1535.6	3194.3	6243.3	9214.3	13566.2
-7.5°	272.3	415.6	569.1	776.5	956.5	1161.4	1483.1	2936.2	5693.9	8649.3	12644.5
-10°	275.8	424.3	580.5	768.5	928.0	1112.2	1408.6	2616.9	5037.0	7922.3	11530.6
-12.5°	282.1	434.5	588.1	759.1	901.4	1058.0	1320.9	2245.6	4290.9	7033.8	10239.7
-15°	284.1	441.2	591.8	749.9	879.2	999.8	1220.6	1829.6	3543.2	6253.8	8962.0
-17.5°	281.5	444.3	592.0	742.5	863.4	938.3	1118.0	1470.0	2985.8	5496.4	7995.5
-20°	274.4	444.0	588.9	737.9	853.6	918.1	1084.2	1391.7	2506.8	4609.4	7082.2



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	262.6	440.4	583.1	730.1	852.6	936.7	1055.5	1293.0	1905.8	3584.9	6135.7
-25°	254.8	423.7	574.2	710.0	846.8	956.7	1024.6	1187.4	1529.4	2802.5	4860.1
-27.5°	251.2	401.4	547.6	681.1	832.0	968.1	1030.4	1149.1	1391.0	1943.0	3516.3
-30°	242.7	364.1	515.5	644.8	797.2	945.1	1053.2	1109.4	1265.7	1587.3	2512.8
-32.5°	225.7	325.8	473.0	605.3	749.0	911.1	1057.2	1112.7	1213.7	1398.9	1745.7
-35°	206.1	301.3	426.8	559.6	691.2	855.6	1010.0	1128.3	1172.6	1306.6	1548.8
-37.5°	188.8	272.7	379.6	508.5	635.8	787.1	957.1	1094.6	1185.8	1244.6	1423.6
-40°	168.8	240.0	340.6	456.3	579.9	717.9	875.3	1035.9	1165.3	1276.5	1351.6
-42.5°	147.0	214.7	300.3	404.1	523.3	651.3	787.5	946.4	1112.1	1270.5	1386.4
-45°	129.9	186.6	257.9	355.4	463.3	581.4	709.0	843.3	1016.3	1195.0	1356.8
-47.5°	111.0	158.2	223.4	302.4	402.3	510.6	626.4	753.3	895.9	1067.9	1253.6
-50°	92.8	135.3	185.5	256.0	339.6	437.9	543.7	654.7	780.8	923.8	1087.3
-52.5°	80.3	110.6	155.3	209.2	281.0	364.5	458.0	555.9	663.6	781.1	915.4
-55°	66.9	93.0	125.5	169.9	224.0	295.3	371.6	458.4	547.8	650.1	753.5
-57.5°	55.1	76.6	101.8	134.4	177.7	226.9	293.2	361.7	441.1	523.8	606.2
-60°	44.0	61.1	81.9	106.7	136.1	176.6	218.7	275.9	339.4	401.7	470.5
-62.5°	33.1	47.0	63.4	82.9	106.7	130.3	163.8	203.0	244.7	295.9	346.3
-65°	26.1	34.0	46.4	62.1	79.0	99.2	120.1	141.2	174.7	208.0	239.5
-67.5°	18.8	25.9	33.1	41.9	56.3	70.5	85.5	104.0	122.6	140.0	160.4
-70°	15.5	18.3	23.9	30.5	36.8	44.5	56.9	69.9	83.1	96.1	110.8
-72.5°	12.9	15.3	17.8	20.5	25.6	30.7	35.6	40.3	48.7	59.5	69.7
-75°	11.3	12.3	14.2	16.4	18.6	20.7	23.0	27.1	31.2	35.4	39.5
-77.5°	10.3	10.9	11.8	12.8	14.1	15.9	17.6	19.3	20.9	22.5	24.1
-80°	9.3	9.6	10.1	10.7	11.4	12.3	13.2	14.3	15.4	16.7	18.0
-82.5°	8.4	8.6	8.9	9.1	9.3	9.5	9.7	10.3	10.9	11.6	12.3
-85°	7.6	7.7	7.8	8.0	8.1	8.2	8.4	8.5	8.6	8.7	8.8
-87.5°	6.7	6.7	6.8	6.9	7.0	7.0	7.1	7.1	7.2	7.3	7.3
-90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.8	5.8	5.8	5.8	5.8	5.3	4.8	4.3	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.3	2.9	2.4	1.9	1.9	1.9
85°	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.3	2.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.3	2.9
80°	4.4	4.4	4.3	4.1	3.8	3.8	3.8	3.8	3.8	3.4	2.9
77.5°	5.8	5.4	4.9	4.4	3.9	3.8	3.8	3.8	3.8	3.4	2.9
75°	6.0	5.6	5.3	5.1	4.8	4.7	4.5	4.2	3.9	3.7	3.7
72.5°	7.4	7.2	7.2	7.3	7.3	7.1	6.7	6.2	5.5	5.5	5.6
70°	11.1	11.5	11.6	11.4	10.7	9.8	9.1	8.3	7.5	7.3	7.5
67.5°	17.1	17.3	16.8	15.5	13.4	11.7	10.7	9.6	8.3	7.9	8.4
65°	24.2	21.4	19.1	17.1	15.2	13.6	12.4	11.1	9.8	9.5	10.7
62.5°	28.9	22.7	19.2	17.5	16.4	15.2	13.4	11.9	10.4	9.7	9.9
60°	32.8	24.1	18.2	16.7	15.2	13.7	11.9	10.4	9.2	8.3	8.1
57.5°	34.7	24.7	16.7	14.6	12.5	10.4	9.5	9.1	8.5	7.7	8.2
55°	33.4	22.9	14.2	12.6	12.0	11.6	11.1	10.2	9.5	8.9	9.3
52.5°	28.6	20.9	15.2	13.2	12.6	12.0	11.4	11.3	11.1	10.8	11.0
50°	25.5	19.5	15.6	13.3	13.3	13.3	13.3	13.4	13.7	13.9	14.0
47.5°	22.8	18.3	17.4	15.2	15.6	16.8	17.0	17.3	18.3	18.2	17.7
45°	22.8	24.5	23.9	22.6	21.8	30.3	30.8	25.8	30.7	30.1	26.3
42.5°	33.4	35.7	36.3	44.6	60.2	59.5	57.9	65.6	60.3	52.7	47.4
40°	51.7	51.7	61.3	75.3	74.8	71.9	81.4	82.6	82.0	86.3	84.9
37.5°	82.2	83.2	87.7	96.0	110.8	103.8	124.6	138.0	140.1	158.7	173.1
35°	136.7	160.3	139.4	189.3	222.0	215.0	245.3	299.5	248.4	380.3	404.1
32.5°	256.4	309.2	349.8	406.8	480.6	589.5	597.6	983.2	1060.3	1288.0	1599.1
30°	441.5	594.5	888.7	965.5	1084.1	1535.4	2068.9	2736.6	3357.2	3800.6	4383.7
27.5°	1062.9	1315.8	1949.5	2637.9	2597.7	3440.9	5349.4	5936.5	7548.0	8084.2	9444.4
25°	2377.4	2983.1	4516.8	5883.7	6580.2	8802.0	11319.9	12455.4	14578.3	15707.0	17372.3
22.5°	4649.3	6310.8	8345.1	10444.1	13059.7	16461.5	19574.1	21846.2	24704.5	26999.2	28357.5
20°	7525.2	9824.3	12957.0	16217.6	20263.4	24732.4	27981.2	32584.3	36883.3	40965.6	42806.9
17.5°	10263.8	14105.0	17895.1	21830.6	27137.8	32983.5	38278.5	45010.7	52139.0	57620.8	62089.5
15°	12584.3	16858.5	22326.9	27030.3	33104.7	40394.6	48266.4	56873.3	67124.7	74916.2	83307.0
12.5°	14726.3	19012.1	24945.3	30562.7	38742.0	46975.3	56161.6	66855.8	78706.2	90232.0	101043.8
10°	16105.4	21044.8	27402.9	34227.4	42605.9	52166.3	62616.1	74596.4	89782.8	102959.6	115140.2
7.5°	16939.7	22898.6	29482.3	36759.3	45728.7	55566.8	66571.9	80695.2	96651.4	110415.0	121357.7
5°	17760.2	24417.4	30824.6	37979.9	47761.3	57772.4	68506.7	82673.7	99131.1	112907.8	122734.3
2.5°	18583.1	25463.0	31561.9	38465.6	48915.3	59018.9	70383.9	85477.0	102019.3	114672.1	123208.1
0°	19335.1	25836.0	31827.1	38587.6	49417.8	59563.3	71134.0	86037.8	104492.1	116660.9	124925.5
-2.5°	19607.9	25815.7	31540.3	38243.2	48998.2	58818.1	70333.9	86395.6	103617.2	115999.5	124391.5
-5°	18778.4	24411.9	29982.8	36772.2	46770.0	56906.1	68499.3	84425.8	100773.4	113592.3	121594.7
-7.5°	17218.7	22308.7	27788.2	34516.1	43600.1	53395.1	63948.6	77860.0	93954.0	105896.1	112198.8
-10°	15586.1	19952.0	25128.4	31355.3	39360.4	48662.3	57410.2	69247.3	84122.2	94709.6	101159.7
-12.5°	13719.9	17262.7	22040.5	27483.2	34628.6	42738.1	50739.3	60751.3	72111.5	83000.9	89716.0
-15°	11760.7	14611.9	18763.2	23985.9	29628.9	35694.6	43093.6	51203.8	60262.1	69088.5	76738.3
-17.5°	10192.6	12392.8	16202.2	20895.7	25198.7	30119.5	37331.0	43924.2	50553.5	57672.1	64044.9
-20°	9184.0	11249.2	14326.4	18245.3	22513.8	27474.2	33047.0	38813.5	44975.9	50441.4	56058.4



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8379.0	10501.7	12876.0	16142.0	20685.4	25242.5	29529.5	33942.5	39055.1	44637.8	49343.2
-25°	7333.3	9559.3	11815.0	14921.5	18746.7	22774.7	25930.9	29072.9	33685.9	38433.7	42323.6
-27.5°	5879.0	8396.0	11029.6	13558.0	16818.8	19683.5	22457.0	25304.6	29326.9	33334.6	36241.0
-30°	4195.2	7102.3	9837.4	12421.0	14659.8	16915.6	19235.2	22150.2	25512.6	28737.3	31208.0
-32.5°	3069.7	5248.0	8205.9	10842.8	13033.7	14922.1	16703.5	19297.3	21927.9	24513.6	26875.1
-35°	1958.8	3551.0	5855.8	8540.9	11113.1	13117.9	15054.9	16934.3	18911.4	21115.1	23158.6
-37.5°	1686.6	2114.7	3530.6	5533.9	7999.1	10618.8	12523.2	14394.2	16412.4	18068.0	19786.0
-40°	1528.6	1752.2	2110.9	2821.4	4682.8	6531.0	8670.6	10671.6	12600.7	14300.2	15870.1
-42.5°	1459.5	1593.4	1738.2	2007.8	2308.1	3194.3	4754.2	6211.2	7928.1	9633.9	11123.9
-45°	1494.5	1540.5	1614.2	1746.7	1869.7	2119.3	2382.2	2656.8	3830.0	5060.2	6114.3
-47.5°	1398.8	1532.9	1604.3	1661.9	1725.1	1833.7	1946.1	2099.1	2363.6	2631.6	2844.0
-50°	1240.0	1382.8	1508.2	1631.9	1691.7	1735.0	1781.4	1871.0	1993.8	2120.0	2213.0
-52.5°	1042.5	1180.7	1318.7	1443.9	1546.1	1644.7	1742.3	1815.6	1879.7	1943.1	1973.7
-55°	865.9	981.1	1092.3	1205.1	1316.4	1422.0	1530.1	1640.0	1742.1	1836.5	1883.2
-57.5°	699.9	796.5	892.1	978.1	1066.8	1157.1	1257.2	1364.0	1469.6	1568.3	1619.4
-60°	542.3	616.4	694.7	764.8	830.8	892.5	979.0	1066.6	1150.5	1222.1	1260.0
-62.5°	396.5	454.1	513.4	569.2	622.0	674.5	739.5	803.0	863.9	913.1	941.8
-65°	274.9	317.7	357.6	396.1	433.5	478.2	527.6	575.0	620.0	653.7	672.7
-67.5°	187.6	213.0	235.3	256.1	283.0	314.5	349.0	381.5	411.8	433.9	448.4
-70°	125.3	139.2	151.4	165.5	182.5	199.7	218.4	236.8	254.8	267.2	274.8
-72.5°	79.5	88.3	96.6	106.4	115.5	124.6	133.7	142.1	149.8	157.0	163.6
-75°	43.7	48.3	54.9	61.0	66.7	72.8	78.8	84.0	88.6	91.7	94.1
-77.5°	26.7	29.7	32.4	34.8	37.0	39.7	42.7	45.9	49.0	51.1	52.7
-80°	19.3	20.3	21.2	22.2	23.2	24.1	24.8	25.4	25.8	26.6	27.4
-82.5°	13.1	13.7	14.2	14.7	15.1	16.0	16.8	17.6	18.4	19.1	19.8
-85°	8.9	8.9	8.8	8.9	8.9	9.4	10.0	10.5	11.1	11.2	11.3
-87.5°	7.4	7.0	6.6	6.2	5.8	5.8	5.7	5.7	5.7	5.8	5.8
-90°	3.8	3.8	3.8	3.8	3.8	3.3	2.9	2.4	1.9	1.9	1.9



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4
85°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.8	3.3	3.7	3.7
82.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.3	3.8	3.8
80°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.8	3.8
77.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.8	3.8
75°	3.7	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.9	4.2
72.5°	5.7	5.7	5.8	5.8	5.8	5.7	5.7	5.6	5.5	5.5	6.2
70°	7.6	7.6	7.7	7.7	7.7	7.6	7.6	7.5	7.3	7.5	8.3
67.5°	8.9	9.5	9.6	9.6	9.6	9.5	8.9	8.4	7.9	8.3	9.6
65°	11.9	13.1	12.6	11.5	12.6	13.1	11.9	10.7	9.5	9.8	11.1
62.5°	9.9	9.8	9.6	9.6	9.6	9.8	9.9	9.9	9.7	10.4	11.9
60°	7.9	7.8	7.7	7.7	7.7	7.8	7.9	8.1	8.3	9.2	10.4
57.5°	8.7	9.3	9.6	9.6	9.6	9.3	8.7	8.2	7.7	8.5	9.1
55°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.3	8.9	9.5	10.2
52.5°	11.2	11.4	11.5	11.5	11.5	11.4	11.2	11.0	10.8	11.1	11.3
50°	13.9	13.6	13.5	13.5	13.5	13.6	13.9	14.0	13.9	13.7	13.4
47.5°	17.6	17.3	17.2	17.3	17.2	17.3	17.6	17.7	18.2	18.3	17.3
45°	26.3	25.5	24.8	25.0	24.8	25.5	26.3	26.3	30.1	30.7	25.8
42.5°	50.3	52.1	54.2	57.7	54.2	52.1	50.3	47.4	52.7	60.3	65.6
40°	85.8	83.3	80.1	80.8	80.1	83.3	85.8	84.9	86.3	82.0	82.6
37.5°	178.4	171.7	158.8	150.0	158.8	171.7	178.4	173.1	158.7	140.1	138.0
35°	366.7	358.0	336.9	330.8	336.9	358.0	366.7	404.1	380.3	248.4	299.5
32.5°	1725.9	1923.8	1985.9	1988.7	1985.9	1923.8	1725.9	1599.1	1288.0	1060.3	983.2
30°	4429.1	4381.0	3953.7	3513.9	3953.7	4381.0	4429.1	4383.7	3800.6	3357.2	2736.6
27.5°	10659.5	11961.7	12902.3	12597.8	12902.3	11961.7	10659.5	9444.4	8084.2	7548.0	5936.5
25°	19198.8	20120.4	20422.8	19973.7	20422.8	20120.4	19198.8	17372.3	15707.0	14578.3	12455.4
22.5°	30141.8	30695.2	30647.0	29636.5	30647.0	30695.2	30141.8	28357.5	26999.2	24704.5	21846.2
20°	45391.0	45302.7	45756.2	43699.8	45756.2	45302.7	45391.0	42806.9	40965.6	36883.3	32584.3
17.5°	66958.9	70501.3	73198.3	72940.0	73198.3	70501.3	66958.9	62089.5	57620.8	52139.0	45010.7
15°	89869.9	95222.4	98880.9	99118.3	98880.9	95222.4	89869.9	83307.0	74916.2	67124.7	56873.3
12.5°	109785.7	115509.8	118617.0	118144.8	118617.0	115509.8	109785.7	101043.8	90232.0	78706.2	66855.8
10°	122472.6	126878.5	130148.5	130960.8	130148.5	126878.5	122472.6	115140.2	102959.6	89782.8	74596.4
7.5°	127559.9	131683.5	134534.0	134491.1	134534.0	131683.5	127559.9	121357.7	110415.0	96651.4	80695.2
5°	128501.4	132561.3	134174.7	134480.5	134174.7	132561.3	128501.4	122734.3	112907.8	99131.1	82673.7
2.5°	129427.2	132793.3	134546.9	133880.5	134546.9	132793.3	129427.2	123208.1	114672.1	102019.3	85477.0
0°	129789.5	132488.0	133858.4	133434.2	133858.4	132488.0	129789.5	124925.5	116660.9	104492.1	86037.8
-2.5°	129665.4	131440.5	132600.4	132199.4	132600.4	131440.5	129665.4	124391.5	115999.5	103617.2	86395.6
-5°	126347.2	127875.9	128416.4	128712.5	128416.4	127875.9	126347.2	121594.7	113592.3	100773.4	84425.8
-7.5°	115684.1	117693.2	117047.2	118021.7	117047.2	117693.2	115684.1	112198.8	105896.1	93954.0	77860.0
-10°	105135.2	107090.4	106419.6	107048.2	106419.6	107090.4	105135.2	101159.7	94709.6	84122.2	69247.3
-12.5°	95188.0	97647.3	97610.8	98502.9	97610.8	97647.3	95188.0	89716.0	83000.9	72111.5	60751.3
-15°	83228.9	86361.2	88067.0	89161.3	88067.0	86361.2	83228.9	76738.3	69088.5	60262.1	51203.8
-17.5°	70596.1	74624.1	77493.8	77934.9	77493.8	74624.1	70596.1	64044.9	57672.1	50553.5	43924.2
-20°	60884.0	64515.4	67216.3	68087.5	67216.3	64515.4	60884.0	56058.4	50441.4	44975.9	38813.5



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	52748.1	55744.8	57697.6	58178.5	57697.6	55744.8	52748.1	49343.2	44637.8	39055.1	33942.5
-25°	44872.3	46547.9	47572.9	47959.9	47572.9	46547.9	44872.3	42323.6	38433.7	33685.9	29072.9
-27.5°	38462.3	39657.4	40169.1	40370.5	40169.1	39657.4	38462.3	36241.0	33334.6	29326.9	25304.6
-30°	33096.5	34014.2	34576.5	34785.2	34576.5	34014.2	33096.5	31208.0	28737.3	25512.6	22150.2
-32.5°	28679.5	29593.0	30185.5	30398.1	30185.5	29593.0	28679.5	26875.1	24513.6	21927.9	19297.3
-35°	24543.8	25298.9	25838.7	26089.8	25838.7	25298.9	24543.8	23158.6	21115.1	18911.4	16934.3
-37.5°	20888.2	21569.5	22019.0	22158.6	22019.0	21569.5	20888.2	19786.0	18068.0	16412.4	14394.2
-40°	16754.5	17369.3	17711.3	17694.6	17711.3	17369.3	16754.5	15870.1	14300.2	12600.7	10671.6
-42.5°	12004.3	12625.2	13064.1	13394.0	13064.1	12625.2	12004.3	11123.9	9633.9	7928.1	6211.2
-45°	6819.8	7330.0	7658.5	7812.5	7658.5	7330.0	6819.8	6114.3	5060.2	3830.0	2656.8
-47.5°	2970.3	3062.9	3109.5	3110.0	3109.5	3062.9	2970.3	2844.0	2631.6	2363.6	2099.1
-50°	2280.3	2338.5	2372.1	2381.1	2372.1	2338.5	2280.3	2213.0	2120.0	1993.8	1871.0
-52.5°	1995.2	2015.4	2024.4	2025.3	2024.4	2015.4	1995.2	1973.7	1943.1	1879.7	1815.6
-55°	1922.6	1956.2	1969.6	1967.6	1969.6	1956.2	1922.6	1883.2	1836.5	1742.1	1640.0
-57.5°	1662.0	1695.4	1714.8	1721.4	1714.8	1695.4	1662.0	1619.4	1568.3	1469.6	1364.0
-60°	1289.5	1310.4	1328.7	1340.6	1328.7	1310.4	1289.5	1260.0	1222.1	1150.5	1066.6
-62.5°	965.1	982.7	999.7	1011.7	999.7	982.7	965.1	941.8	913.1	863.9	803.0
-65°	686.4	695.2	709.3	721.2	709.3	695.2	686.4	672.7	653.7	620.0	575.0
-67.5°	459.9	468.3	473.4	475.1	473.4	468.3	459.9	448.4	433.9	411.8	381.5
-70°	280.1	283.3	289.3	294.3	289.3	283.3	280.1	274.8	267.2	254.8	236.8
-72.5°	169.5	174.5	174.6	173.1	174.6	174.5	169.5	163.6	157.0	149.8	142.1
-75°	95.9	97.1	97.8	98.1	97.8	97.1	95.9	94.1	91.7	88.6	84.0
-77.5°	54.1	55.3	54.7	53.9	54.7	55.3	54.1	52.7	51.1	49.0	45.9
-80°	28.0	28.7	28.8	28.8	28.8	28.7	28.0	27.4	26.6	25.8	25.4
-82.5°	20.5	21.1	20.2	19.2	20.2	21.1	20.5	19.8	19.1	18.4	17.6
-85°	11.4	11.5	11.5	11.5	11.5	11.5	11.4	11.3	11.2	11.1	10.5
-87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7
-90°	1.9	1.9	1.0	0.0	1.0	1.9	1.9	1.9	1.9	1.9	2.4





REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.8	5.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	3.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.0	4.1	4.1	4.0
80°	3.8	3.8	3.8	4.1	4.3	4.4	4.4	4.6	4.9	5.3	5.4
77.5°	3.8	3.8	3.9	4.4	4.9	5.4	5.8	5.7	5.6	5.7	5.7
75°	4.5	4.7	4.8	5.1	5.3	5.6	6.0	6.3	6.5	6.4	6.2
72.5°	6.7	7.1	7.3	7.3	7.2	7.2	7.4	7.5	7.6	7.7	7.3
70°	9.1	9.8	10.7	11.4	11.6	11.5	11.1	10.5	9.5	9.2	8.5
67.5°	10.7	11.7	13.4	15.5	16.8	17.3	17.1	16.0	15.0	13.8	11.0
65°	12.4	13.6	15.2	17.1	19.1	21.4	24.2	24.5	23.3	20.5	14.9
62.5°	13.4	15.2	16.4	17.5	19.2	22.7	28.9	32.2	33.0	29.0	21.8
60°	11.9	13.7	15.2	16.7	18.2	24.1	32.8	39.5	44.0	37.5	28.3
57.5°	9.5	10.4	12.5	14.6	16.7	24.7	34.7	45.5	52.6	42.7	33.4
55°	11.1	11.6	12.0	12.6	14.2	22.9	33.4	44.8	51.0	44.7	34.4
52.5°	11.4	12.0	12.6	13.2	15.2	20.9	28.6	39.9	43.4	38.2	32.2
50°	13.3	13.3	13.3	13.3	15.6	19.5	25.5	33.9	33.5	31.2	26.1
47.5°	17.0	16.8	15.6	15.2	17.4	18.3	22.8	26.5	27.3	24.9	21.1
45°	30.8	30.3	21.8	22.6	23.9	24.5	22.8	25.1	24.7	22.6	17.8
42.5°	57.9	59.5	60.2	44.6	36.3	35.7	33.4	31.3	28.9	24.1	21.6
40°	81.4	71.9	74.8	75.3	61.3	51.7	51.7	43.9	39.2	32.7	31.0
37.5°	124.6	103.8	110.8	96.0	87.7	83.2	82.2	69.7	53.0	58.0	54.5
35°	245.3	215.0	222.0	189.3	139.4	160.3	136.7	111.1	97.0	99.1	89.2
32.5°	597.6	589.5	480.6	406.8	349.8	309.2	256.4	181.8	190.5	176.4	141.5
30°	2068.9	1535.4	1084.1	965.5	888.7	594.5	441.5	428.6	342.7	285.2	214.8
27.5°	5349.4	3440.9	2597.7	2637.9	1949.5	1315.8	1062.9	865.2	588.3	444.2	339.4
25°	11319.9	8802.0	6580.2	5883.7	4516.8	2983.1	2377.4	1746.5	1109.1	643.0	521.4
22.5°	19574.1	16461.5	13059.7	10444.1	8345.1	6310.8	4649.3	3013.0	1772.2	1027.9	739.0
20°	27981.2	24732.4	20263.4	16217.6	12957.0	9824.3	7525.2	5015.6	2998.9	1615.0	969.9
17.5°	38278.5	32983.5	27137.8	21830.6	17895.1	14105.0	10263.8	7109.0	4429.6	2231.0	1206.7
15°	48266.4	40394.6	33104.7	27030.3	22326.9	16858.5	12584.3	9031.9	6063.0	3209.0	1665.6
12.5°	56161.6	46975.3	38742.0	30562.7	24945.3	19012.1	14726.3	11007.5	7547.0	4228.5	2057.7
10°	62616.1	52166.3	42605.9	34227.4	27402.9	21044.8	16105.4	11953.8	8103.6	4947.3	2416.1
7.5°	66571.9	55566.8	45728.7	36759.3	29482.3	22898.6	16939.7	12343.7	8384.4	5455.9	2732.5
5°	68506.7	57772.4	47761.3	37979.9	30824.6	24417.4	17760.2	12464.1	8424.1	5772.0	2998.0
2.5°	70383.9	59018.9	48915.3	38465.6	31561.9	25463.0	18583.1	12547.3	8501.3	5916.9	3085.8
0°	71134.0	59563.3	49417.8	38587.6	31827.1	25836.0	19335.1	12578.5	8551.1	5920.0	3102.3
-2.5°	70333.9	58818.1	48998.2	38243.2	31540.3	25815.7	19607.9	13527.7	9089.4	6207.2	3189.6
-5°	68499.3	56906.1	46770.0	36772.2	29982.8	24411.9	18778.4	13566.2	9214.3	6243.3	3194.3
-7.5°	63948.6	53395.1	43600.1	34516.1	27788.2	22308.7	17218.7	12644.5	8649.3	5693.9	2936.2
-10°	57410.2	48662.3	39360.4	31355.3	25128.4	19952.0	15586.1	11530.6	7922.3	5037.0	2616.9
-12.5°	50739.3	42738.1	34628.6	27483.2	22040.5	17262.7	13719.9	10239.7	7033.8	4290.9	2245.6
-15°	43093.6	35694.6	29628.9	23985.9	18763.2	14611.9	11760.7	8962.0	6253.8	3543.2	1829.6
-17.5°	37331.0	30119.5	25198.7	20895.7	16202.2	12392.8	10192.6	7995.5	5496.4	2985.8	1470.0
-20°	33047.0	27474.2	22513.8	18245.3	14326.4	11249.2	9184.0	7082.2	4609.4	2506.8	1391.7



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	29529.5	25242.5	20685.4	16142.0	12876.0	10501.7	8379.0	6135.7	3584.9	1905.8	1293.0
-25°	25930.9	22774.7	18746.7	14921.5	11815.0	9559.3	7333.3	4860.1	2802.5	1529.4	1187.4
-27.5°	22457.0	19683.5	16818.8	13558.0	11029.6	8396.0	5879.0	3516.3	1943.0	1391.0	1149.1
-30°	19235.2	16915.6	14659.8	12421.0	9837.4	7102.3	4195.2	2512.8	1587.3	1265.7	1109.4
-32.5°	16703.5	14922.1	13033.7	10842.8	8205.9	5248.0	3069.7	1745.7	1398.9	1213.7	1112.7
-35°	15054.9	13117.9	11113.1	8540.9	5855.8	3551.0	1958.8	1548.8	1306.6	1172.6	1128.3
-37.5°	12523.2	10618.8	7999.1	5533.9	3530.6	2114.7	1686.6	1423.6	1244.6	1185.8	1094.6
-40°	8670.6	6531.0	4682.8	2821.4	2110.9	1752.2	1528.6	1351.6	1276.5	1165.3	1035.9
-42.5°	4754.2	3194.3	2308.1	2007.8	1738.2	1593.4	1459.5	1386.4	1270.5	1112.1	946.4
-45°	2382.2	2119.3	1869.7	1746.7	1614.2	1540.5	1494.5	1356.8	1195.0	1016.3	843.3
-47.5°	1946.1	1833.7	1725.1	1661.9	1604.3	1532.9	1398.8	1253.6	1067.9	895.9	753.3
-50°	1781.4	1735.0	1691.7	1631.9	1508.2	1382.8	1240.0	1087.3	923.8	780.8	654.7
-52.5°	1742.3	1644.7	1546.1	1443.9	1318.7	1180.7	1042.5	915.4	781.1	663.6	555.9
-55°	1530.1	1422.0	1316.4	1205.1	1092.3	981.1	865.9	753.5	650.1	547.8	458.4
-57.5°	1257.2	1157.1	1066.8	978.1	892.1	796.5	699.9	606.2	523.8	441.1	361.7
-60°	979.0	892.5	830.8	764.8	694.7	616.4	542.3	470.5	401.7	339.4	275.9
-62.5°	739.5	674.5	622.0	569.2	513.4	454.1	396.5	346.3	295.9	244.7	203.0
-65°	527.6	478.2	433.5	396.1	357.6	317.7	274.9	239.5	208.0	174.7	141.2
-67.5°	349.0	314.5	283.0	256.1	235.3	213.0	187.6	160.4	140.0	122.6	104.0
-70°	218.4	199.7	182.5	165.5	151.4	139.2	125.3	110.8	96.1	83.1	69.9
-72.5°	133.7	124.6	115.5	106.4	96.6	88.3	79.5	69.7	59.5	48.7	40.3
-75°	78.8	72.8	66.7	61.0	54.9	48.3	43.7	39.5	35.4	31.2	27.1
-77.5°	42.7	39.7	37.0	34.8	32.4	29.7	26.7	24.1	22.5	20.9	19.3
-80°	24.8	24.1	23.2	22.2	21.2	20.3	19.3	18.0	16.7	15.4	14.3
-82.5°	16.8	16.0	15.1	14.7	14.2	13.7	13.1	12.3	11.6	10.9	10.3
-85°	10.0	9.4	8.9	8.9	8.8	8.9	8.9	8.8	8.7	8.6	8.5
-87.5°	5.7	5.8	5.8	6.2	6.6	7.0	7.4	7.3	7.3	7.2	7.1
-90°	2.9	3.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8





REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.8	5.3
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.8	5.3
82.5°	3.8	3.8	3.8	3.8	4.1	4.3	4.4	4.4	4.5	4.9	5.3
80°	4.8	4.3	4.0	3.9	4.4	4.9	5.1	5.2	5.1	5.2	5.4
77.5°	5.4	4.9	4.2	3.9	4.4	4.9	5.4	5.8	5.7	5.5	5.6
75°	5.8	5.6	5.2	4.7	4.7	5.0	5.5	5.8	5.8	5.8	5.7
72.5°	6.6	6.1	5.8	5.8	5.4	5.4	5.6	5.8	5.8	5.8	5.8
70°	7.5	6.6	5.9	5.8	5.8	5.8	5.7	5.8	5.8	5.8	5.8
67.5°	8.7	7.7	6.6	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	11.5	9.1	7.6	6.7	6.0	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	15.5	10.6	8.6	7.5	6.4	5.9	5.8	5.8	5.8	5.8	5.8
60°	20.9	14.5	10.2	8.7	7.3	6.0	5.8	5.8	5.8	5.8	5.8
57.5°	24.5	18.0	13.7	10.5	8.7	6.8	6.0	6.0	5.8	5.8	5.8
55°	26.1	19.6	16.3	12.8	10.2	8.4	6.7	6.3	5.9	5.8	5.9
52.5°	24.4	20.5	17.9	14.5	11.5	9.8	8.0	6.7	6.3	5.8	6.0
50°	20.3	20.5	18.9	15.9	12.4	10.5	9.3	7.7	6.8	5.9	6.1
47.5°	18.1	20.0	19.5	17.1	13.6	11.3	10.1	8.6	7.3	6.5	6.2
45°	18.9	19.2	19.9	18.1	15.1	12.6	10.8	9.5	8.1	7.0	6.3
42.5°	21.5	21.1	20.1	19.3	17.0	14.0	11.4	10.1	8.7	7.6	6.6
40°	28.4	25.0	21.7	21.3	19.3	15.5	12.6	10.7	9.3	8.2	7.1
37.5°	37.6	32.3	26.5	25.9	22.5	17.9	13.8	11.2	9.9	8.7	7.6
35°	66.2	42.7	41.2	36.6	28.4	20.6	15.0	11.9	10.6	9.3	8.0
32.5°	102.5	77.5	72.9	54.6	36.1	23.5	16.9	13.5	11.3	9.8	8.5
30°	171.4	164.3	118.9	77.6	48.5	30.7	20.3	15.4	12.1	10.3	8.9
27.5°	301.7	278.9	185.9	119.8	70.5	40.0	25.3	17.5	13.0	10.8	9.3
25°	450.5	407.5	298.4	176.0	95.6	63.7	31.0	20.0	14.4	11.5	9.7
22.5°	619.9	542.3	429.6	240.8	147.2	95.4	43.8	24.5	16.2	12.2	10.1
20°	788.8	684.5	568.4	322.5	212.5	139.4	66.6	29.4	18.2	12.8	10.5
17.5°	963.5	802.0	643.3	421.1	280.0	186.9	93.4	34.5	20.2	13.5	10.8
15°	1104.9	879.5	708.8	506.4	343.5	237.0	123.4	39.9	22.2	14.2	11.0
12.5°	1220.7	952.3	769.6	579.2	402.9	288.8	155.5	45.2	24.2	14.8	11.2
10°	1325.7	1019.7	825.4	640.6	458.3	341.2	188.6	50.4	26.5	15.4	11.3
7.5°	1418.8	1081.2	875.8	691.7	503.1	373.9	209.1	55.3	28.7	15.9	11.4
5°	1491.4	1130.2	907.9	706.7	507.5	382.2	224.5	59.8	30.9	16.4	11.4
2.5°	1516.3	1163.3	927.3	711.3	508.4	385.6	236.3	63.9	32.9	16.9	11.5
0°	1525.2	1188.6	940.5	709.7	505.8	384.7	244.3	67.3	34.6	17.3	11.5
-2.5°	1537.7	1193.9	955.4	739.5	531.5	398.5	257.3	84.0	45.2	23.2	13.6
-5°	1535.6	1191.3	964.2	762.7	553.0	408.7	266.6	99.6	55.1	28.8	15.6
-7.5°	1483.1	1161.4	956.5	776.5	569.1	415.6	272.3	113.9	64.4	33.9	17.5
-10°	1408.6	1112.2	928.0	768.5	580.5	424.3	275.8	126.5	72.5	38.5	19.1
-12.5°	1320.9	1058.0	901.4	759.1	588.1	434.5	282.1	138.6	79.6	42.2	20.4
-15°	1220.6	999.8	879.2	749.9	591.8	441.2	284.1	148.9	86.5	45.7	21.4
-17.5°	1118.0	938.3	863.4	742.5	592.0	444.3	281.5	156.4	91.8	49.1	23.0
-20°	1084.2	918.1	853.6	737.9	588.9	444.0	274.4	160.9	95.3	51.4	24.9



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1055.5	936.7	852.6	730.1	583.1	440.4	262.6	161.9	96.8	52.5	26.3
-25°	1024.6	956.7	846.8	710.0	574.2	423.7	254.8	159.4	96.2	52.4	27.0
-27.5°	1030.4	968.1	832.0	681.1	547.6	401.4	251.2	158.3	94.5	51.0	27.0
-30°	1053.2	945.1	797.2	644.8	515.5	364.1	242.7	154.6	92.7	50.1	26.4
-32.5°	1057.2	911.1	749.0	605.3	473.0	325.8	225.7	147.8	89.1	49.3	26.2
-35°	1010.0	855.6	691.2	559.6	426.8	301.3	206.1	138.0	83.5	47.5	25.8
-37.5°	957.1	787.1	635.8	508.5	379.6	272.7	188.8	125.4	76.1	44.7	24.8
-40°	875.3	717.9	579.9	456.3	340.6	240.0	168.8	113.0	70.5	40.8	23.2
-42.5°	787.5	651.3	523.3	404.1	300.3	214.7	147.0	99.1	64.0	37.6	21.1
-45°	709.0	581.4	463.3	355.4	257.9	186.6	129.9	84.7	56.4	34.4	19.0
-47.5°	626.4	510.6	402.3	302.4	223.4	158.2	111.0	75.4	48.2	30.4	17.5
-50°	543.7	437.9	339.6	256.0	185.5	135.3	92.8	65.1	42.5	25.5	15.6
-52.5°	458.0	364.5	281.0	209.2	155.3	110.6	80.3	54.5	36.2	22.0	13.5
-55°	371.6	295.3	224.0	169.9	125.5	93.0	66.9	46.3	29.2	19.0	11.3
-57.5°	293.2	226.9	177.7	134.4	101.8	76.6	55.1	37.4	24.4	15.7	10.9
-60°	218.7	176.6	136.1	106.7	81.9	61.1	44.0	29.3	20.1	12.8	10.6
-62.5°	163.8	130.3	106.7	82.9	63.4	47.0	33.1	23.8	15.5	12.1	10.1
-65°	120.1	99.2	79.0	62.1	46.4	34.0	26.1	17.9	13.6	11.2	9.6
-67.5°	85.5	70.5	56.3	41.9	33.1	25.9	18.8	14.9	12.3	10.3	9.2
-70°	56.9	44.5	36.8	30.5	23.9	18.3	15.5	13.0	10.8	9.7	8.7
-72.5°	35.6	30.7	25.6	20.5	17.8	15.3	12.9	11.2	10.2	9.2	8.2
-75°	23.0	20.7	18.6	16.4	14.2	12.3	11.3	10.4	9.5	8.6	8.0
-77.5°	17.6	15.9	14.1	12.8	11.8	10.9	10.3	9.7	8.9	8.3	7.9
-80°	13.2	12.3	11.4	10.7	10.1	9.6	9.3	9.0	8.4	8.0	7.8
-82.5°	9.7	9.5	9.3	9.1	8.9	8.6	8.4	8.2	7.9	7.7	7.5
-85°	8.4	8.2	8.1	8.0	7.8	7.7	7.6	7.4	7.3	7.1	6.9
-87.5°	7.1	7.0	7.0	6.9	6.8	6.7	6.7	6.6	6.5	6.4	6.4
-90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.8	5.3



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
57.5°	5.9	5.8	5.8	5.8	5.8	5.8	5.8
55°	6.0	5.8	5.8	5.8	5.8	5.8	5.8
52.5°	6.2	5.8	5.8	5.8	5.8	5.8	5.8
50°	6.3	6.0	5.8	5.8	5.8	5.8	5.8
47.5°	6.5	6.2	5.8	5.8	5.8	5.8	5.8
45°	6.6	6.4	5.8	5.8	5.8	5.8	5.8
42.5°	6.7	6.6	5.8	5.8	5.8	5.8	5.8
40°	6.8	6.9	5.9	5.8	5.8	5.8	5.8
37.5°	6.9	7.1	6.1	5.9	5.8	5.8	5.8
35°	7.0	7.3	6.3	5.9	5.8	5.8	5.8
32.5°	7.2	7.4	6.5	6.0	5.8	5.8	5.8
30°	7.5	7.4	6.7	6.1	5.8	5.8	5.8
27.5°	7.9	7.5	6.9	6.2	5.8	5.8	5.8
25°	8.2	7.6	7.1	6.3	5.8	5.8	5.8
22.5°	8.6	7.7	7.2	6.4	5.8	5.8	5.8
20°	8.9	7.7	7.4	6.6	5.8	5.8	5.8
17.5°	9.1	7.7	7.5	6.7	5.8	5.8	5.8
15°	9.2	7.7	7.6	6.8	5.8	5.8	5.8
12.5°	9.3	7.7	7.6	7.0	5.8	5.8	5.8
10°	9.4	7.7	7.7	7.1	5.8	5.8	5.8
7.5°	9.5	7.7	7.7	7.3	5.8	5.8	5.8
5°	9.6	7.7	7.7	7.4	5.8	5.8	5.8
2.5°	9.6	7.7	7.7	7.6	5.8	5.8	5.8
0°	9.6	7.7	7.7	7.7	5.8	5.8	5.8
-2.5°	10.1	7.9	7.7	7.7	5.9	5.8	5.8
-5°	10.6	8.1	7.7	7.7	6.0	5.8	5.8
-7.5°	11.0	8.3	7.7	7.7	6.0	5.8	5.8
-10°	11.4	8.5	7.7	7.6	6.1	5.8	5.8
-12.5°	11.7	8.6	7.7	7.6	6.2	5.8	5.8
-15°	12.0	8.7	7.7	7.6	6.3	5.8	5.8
-17.5°	12.1	8.8	7.7	7.6	6.3	5.8	5.8
-20°	12.6	8.8	7.7	7.5	6.4	5.8	5.8



REPORT NUMBER: P701499 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.6	8.8	7.7	7.5	6.4	5.8	5.8
-25°	14.3	9.0	7.7	7.5	6.5	5.8	5.8
-27.5°	14.7	9.2	7.7	7.5	6.5	5.8	5.8
-30°	14.7	9.2	7.7	7.5	6.5	5.8	5.8
-32.5°	14.3	9.1	7.8	7.5	6.5	5.8	5.8
-35°	14.1	8.9	7.9	7.6	6.5	5.8	5.8
-37.5°	13.8	8.7	7.9	7.6	6.5	5.8	5.8
-40°	13.3	8.8	8.0	7.7	6.4	5.8	5.8
-42.5°	12.5	8.8	8.0	7.7	6.4	5.8	5.8
-45°	11.5	8.8	8.0	7.7	6.4	5.8	5.8
-47.5°	10.3	8.8	8.0	7.7	6.3	5.8	5.8
-50°	10.0	8.8	8.0	7.6	6.2	5.8	5.8
-52.5°	9.9	8.7	7.9	7.4	6.1	5.8	5.8
-55°	9.7	8.6	7.9	7.2	6.0	5.8	5.8
-57.5°	9.5	8.4	7.8	7.1	5.9	5.8	5.8
-60°	9.2	8.2	7.7	6.9	5.8	5.8	5.8
-62.5°	8.9	8.0	7.5	6.7	5.8	5.8	5.8
-65°	8.5	7.8	7.3	6.6	5.8	5.8	5.8
-67.5°	8.2	7.6	7.2	6.4	5.8	5.8	5.8
-70°	7.8	7.5	7.0	6.2	5.8	5.8	5.8
-72.5°	7.7	7.4	6.9	6.2	5.8	5.8	5.8
-75°	7.7	7.3	6.7	6.1	5.8	5.8	5.8
-77.5°	7.7	7.2	6.6	6.1	5.8	5.8	5.8
-80°	7.7	7.0	6.4	6.0	5.8	5.8	5.8
-82.5°	7.3	6.7	6.3	6.0	5.8	5.8	5.8
-85°	6.8	6.4	6.1	5.9	5.8	5.8	5.8
-87.5°	6.3	6.1	6.0	5.9	5.8	5.8	5.8
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8

(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

