

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: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-3S-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-3S-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

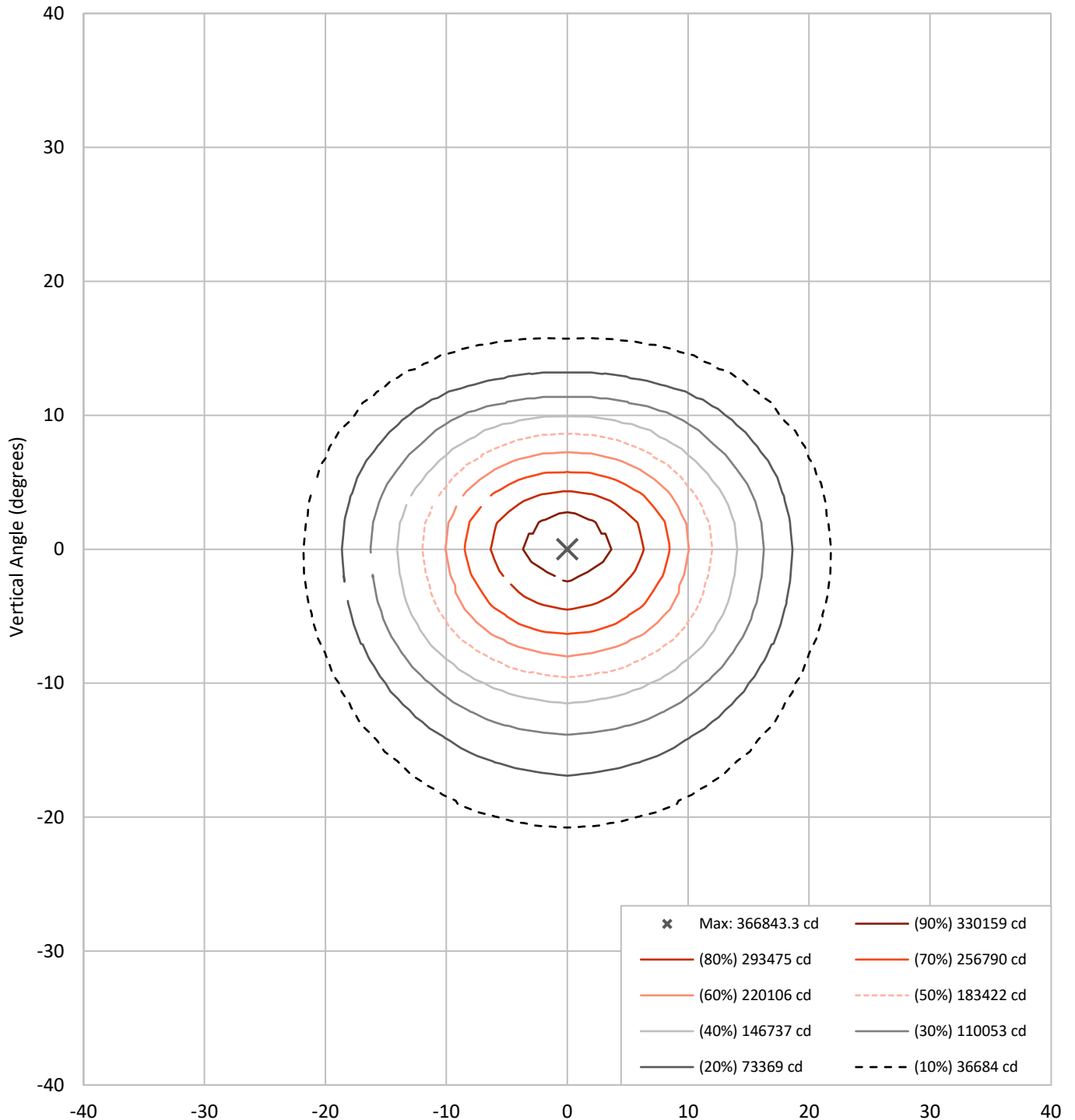
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	61327.1 lumens	Max Intensity:	366843.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24°H x 18.2°V	Field Angle (10%):	43.7°H x 36.4°V
Beam Lumens:	26234.3 lumens	Field Lumens:	52410.1 lumens
Beam Efficiency:	42.8%	Field Efficiency:	85.5%

Input Watts (W): 658
Input Voltage (V): NR
Input Current (A_{in}): 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





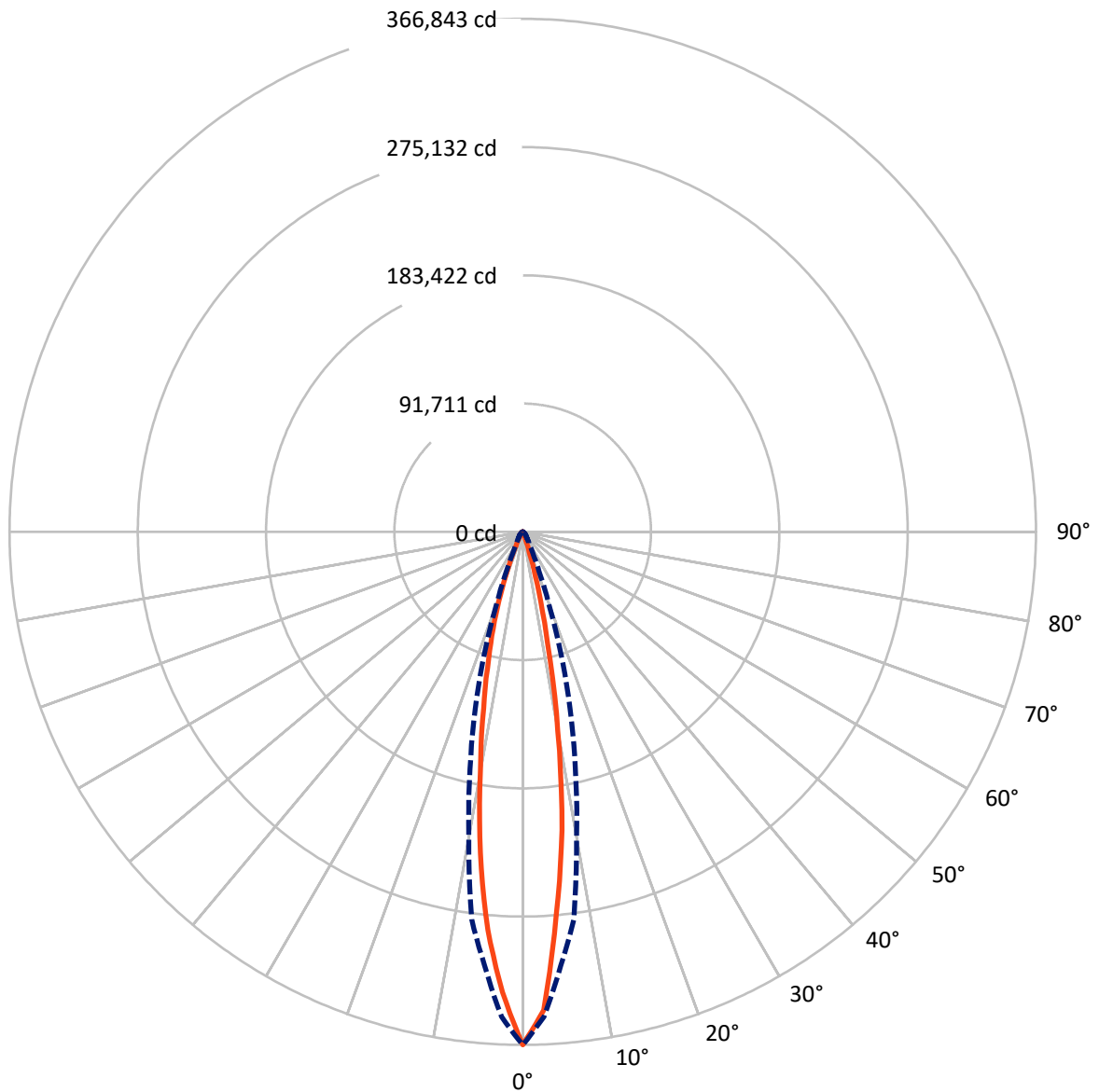
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Lumen Table

90	0.2		0.5		0.7		0.8		0.9		0.8		0.7		0.5		0.2	
80	0.2		0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.2	0.1	0.2	
70	0.2		0.1	0.4	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.4	0.1	0.2	
60	0.2		0.2	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.4	0.2	0.2	
50	0.2		0.2	0.6	0.9	1.7	2.4	3.0	3.9	3.9	3.0	2.4	1.7	0.9	0.6	0.2	0.2	
40	0.2		0.5	1.7	4.3	8.1	12.3	27.9	56.1	56.1	27.9	12.3	8.1	4.3	1.7	0.5	0.3	
30	0.3		1.2	6.3	20.1	44.2	118.5	656.9	1503.2	1503.2	656.9	118.5	44.2	20.1	6.3	1.2	0.3	
20	0.4		2.2	13.2	47.7	111.2	489.1	3067.9	7161.1	7161.1	3067.9	489.1	111.2	47.7	13.2	2.2	0.4	
10	0.4		3.0	15.8	55.8	124.8	521.3	3272.2	7375.8	7375.8	3272.2	521.3	124.8	55.8	15.8	3.0	0.4	
0	0.6		3.2	13.6	42.3	88.5	224.7	1188.0	2673.7	2673.7	1188.0	224.7	88.5	42.3	13.6	3.2	0.6	
-10	0.6		3.1	11.0	26.5	62.6	106.0	230.1	462.6	462.6	230.1	106.0	62.6	26.5	11.0	3.1	0.6	
-20	0.5		2.7	8.8	18.5	40.5	73.1	99.3	115.9	115.9	99.3	73.1	40.5	18.5	8.8	2.7	0.5	
-30	0.5		1.9	6.5	14.1	25.2	41.0	62.8	79.0	79.0	62.8	41.0	25.2	14.1	6.5	1.9	0.5	
-40	0.3		0.9	3.9	8.9	16.0	23.5	29.8	33.4	33.4	29.8	23.5	16.0	8.9	3.9	0.9	0.3	
-50	0.3		0.3	1.3	3.8	7.2	11.1	14.9	17.1	17.1	14.9	11.1	7.2	3.8	1.3	0.3	0.3	
-60	0.3		0.3	1.3	3.8	7.2	11.1	14.9	17.1	17.1	14.9	11.1	7.2	3.8	1.3	0.3	0.3	
-70	0.3		0.3	1.3	3.8	7.2	11.1	14.9	17.1	17.1	14.9	11.1	7.2	3.8	1.3	0.3	0.3	
-80	0.2		0.9		2.9		7.9		12.2		7.9		2.9		0.9		0.2	
-90	0.2		0.9		2.9		7.9		12.2		7.9		2.9		0.9		0.2	

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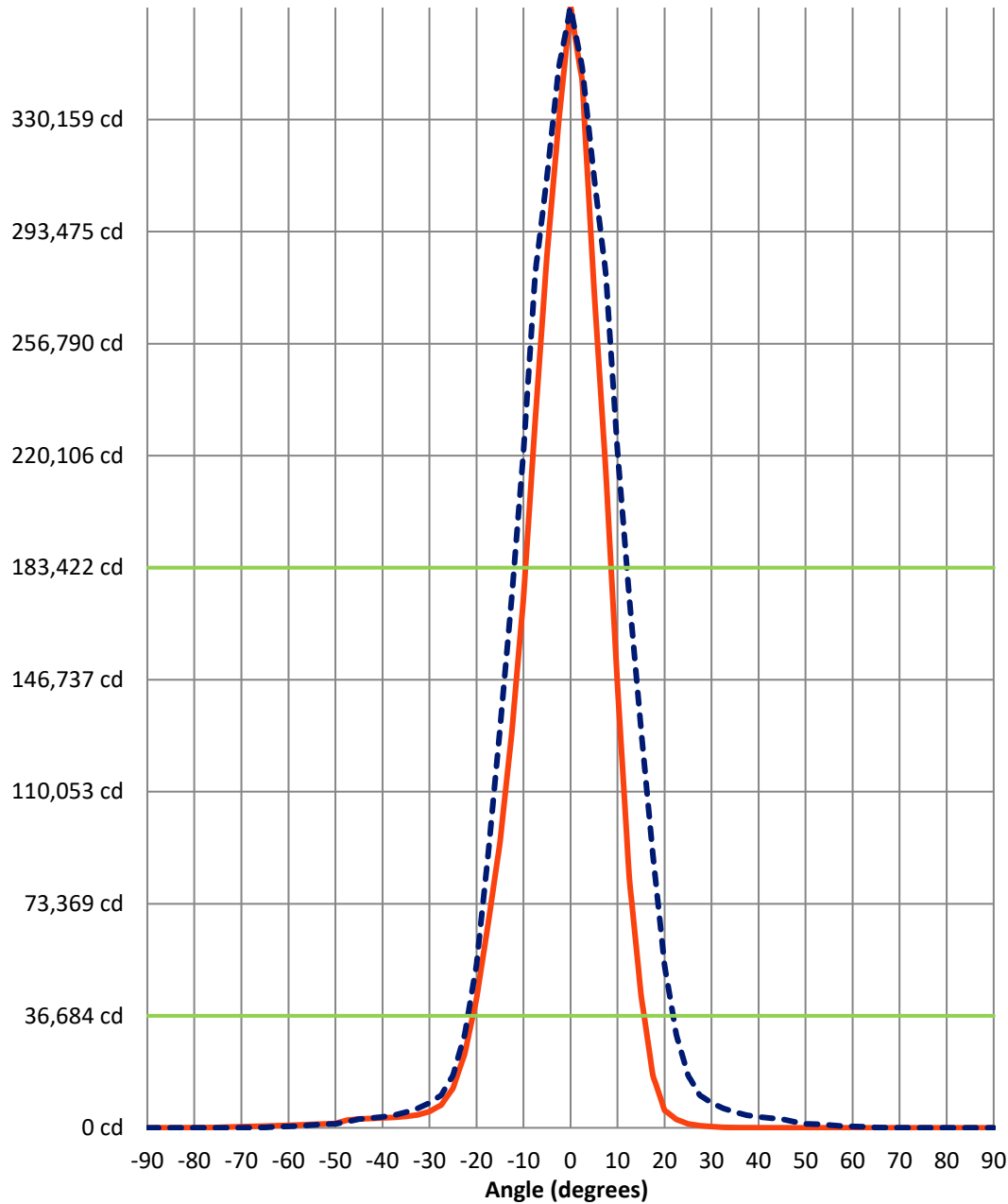
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 24°
 V Angle: 18.2°
 Lumens: 26234.3
 Efficiency: 42.8%

Field:
 H Angle: 43.7°
 V Angle: 36.4°
 Lumens: 52410.1
 Efficiency: 85.5%

Spill:
 Lumens: 8917
 Efficiency: 14.5%

— 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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
85°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.3
67.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.7	7.7	8.4	9.1
65°	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.7	8.3	9.1	9.5
62.5°	7.7	7.7	7.7	7.7	7.7	7.9	7.9	8.1	9.0	9.6	9.0
60°	7.7	7.7	7.7	7.7	7.7	8.1	8.1	8.6	9.6	9.3	8.5
57.5°	7.7	7.7	7.7	7.7	7.9	8.3	8.5	9.1	9.6	9.1	8.4
55°	7.7	7.7	7.8	7.7	8.1	8.5	8.8	9.6	9.5	9.0	8.5
52.5°	7.7	7.7	7.8	7.7	8.3	8.7	9.2	9.7	9.5	9.1	8.6
50°	7.7	7.7	7.8	7.7	8.5	9.0	9.5	9.8	9.6	9.2	10.5
47.5°	7.7	7.7	7.9	7.7	8.8	9.2	9.7	10.0	9.7	9.3	12.1
45°	7.7	7.7	7.9	7.9	9.0	9.3	9.9	10.1	9.9	10.3	13.3
42.5°	7.7	7.7	8.0	8.1	9.2	9.5	10.1	10.3	10.1	10.9	14.6
40°	7.7	7.7	8.1	8.3	9.4	9.6	10.3	10.6	10.6	11.3	15.8
37.5°	7.7	7.7	8.2	8.6	9.5	9.7	10.5	10.9	11.4	12.5	16.9
35°	7.7	7.7	8.2	8.8	9.6	9.8	10.8	11.3	12.2	14.5	17.6
32.5°	7.7	7.7	8.3	8.9	9.6	10.0	11.1	11.7	13.1	16.6	19.3
30°	7.7	7.7	8.4	9.1	9.7	10.2	11.4	12.2	14.0	18.8	21.5
27.5°	7.7	7.7	8.5	9.2	9.7	10.4	11.7	12.9	15.3	21.0	24.0
25°	7.7	7.7	8.6	9.3	9.7	10.7	12.1	13.7	17.1	23.1	27.0
22.5°	7.7	7.7	8.7	9.4	9.7	10.9	12.4	14.4	18.9	25.4	32.5
20°	7.7	7.7	8.9	9.5	9.7	11.0	12.8	15.2	20.6	27.9	38.6
17.5°	7.7	7.7	9.0	9.6	9.7	11.2	13.0	15.9	22.3	30.5	45.2
15°	7.7	7.7	9.1	9.6	9.7	11.3	13.2	16.8	24.0	33.1	52.0
12.5°	7.7	7.7	9.2	9.7	9.7	11.4	13.3	17.8	25.9	35.9	59.1
10°	7.7	7.7	9.3	9.7	9.7	11.5	13.4	18.9	28.0	40.5	67.7
7.5°	7.7	7.7	9.4	9.7	9.7	11.5	13.5	20.0	29.9	45.5	79.8
5°	7.7	7.7	9.5	9.7	9.7	11.6	13.6	21.2	31.7	50.5	91.8
2.5°	7.7	7.7	9.6	9.7	9.7	11.6	13.6	22.2	33.4	55.5	103.4
0°	7.7	7.7	9.7	9.7	9.7	11.6	13.6	23.2	34.9	60.1	114.3
-2.5°	7.7	7.7	9.7	9.7	9.9	12.0	15.4	27.7	44.3	73.9	130.9
-5°	7.7	7.7	9.7	9.7	10.0	12.4	17.1	32.0	53.3	87.0	146.2
-7.5°	7.7	7.7	9.7	9.7	10.2	12.8	18.7	35.9	61.6	99.2	160.3
-10°	7.7	7.7	9.6	9.7	10.3	13.1	20.1	39.3	69.1	110.4	172.8
-12.5°	7.7	7.7	9.6	9.7	10.5	13.4	21.3	42.2	75.6	120.4	184.2
-15°	7.7	7.7	9.6	9.7	10.6	13.6	22.3	44.4	81.5	129.5	194.1
-17.5°	7.7	7.7	9.5	9.7	10.6	13.8	23.0	46.9	87.1	137.4	202.0
-20°	7.7	7.7	9.5	9.7	10.7	13.9	23.6	49.3	91.2	143.8	207.9



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.7	7.7	9.4	9.7	10.7	13.9	24.4	50.5	93.9	148.8	211.6
-25°	7.7	7.7	9.3	9.7	10.7	14.0	24.5	50.6	94.9	152.2	213.0
-27.5°	7.7	7.7	9.2	9.7	10.7	14.1	24.0	49.5	94.3	153.7	215.9
-30°	7.7	7.7	9.2	9.7	10.6	14.1	22.7	47.0	92.7	152.6	217.0
-32.5°	7.7	7.7	9.1	9.7	10.6	14.0	20.8	45.3	89.7	149.2	216.0
-35°	7.7	7.7	9.0	9.7	10.6	13.8	20.0	43.0	84.9	143.3	212.9
-37.5°	7.7	7.7	8.9	9.7	10.5	13.6	19.6	39.6	78.1	135.0	198.6
-40°	7.7	7.7	8.8	9.7	10.4	13.5	19.2	35.0	69.4	125.3	181.1
-42.5°	7.7	7.7	8.6	9.7	10.4	13.3	18.5	29.3	61.7	110.0	161.7
-45°	7.7	7.7	8.5	9.7	10.4	13.0	17.6	25.1	53.8	93.0	140.8
-47.5°	7.7	7.7	8.4	9.7	10.4	12.7	16.6	23.8	44.4	74.8	120.3
-50°	7.7	7.7	8.3	9.6	10.3	12.2	16.0	22.4	32.9	61.8	98.4
-52.5°	7.7	7.7	8.1	9.4	10.2	11.7	15.3	20.7	27.6	48.1	76.0
-55°	7.7	7.7	8.0	9.2	10.1	11.5	14.6	18.8	25.1	33.8	60.0
-57.5°	7.7	7.7	7.8	9.0	9.9	11.2	13.7	17.7	22.5	28.3	43.3
-60°	7.7	7.7	7.7	8.8	9.7	10.8	12.8	16.4	20.0	25.2	30.6
-62.5°	7.7	7.7	7.7	8.7	9.5	10.4	12.1	15.0	18.4	22.1	27.1
-65°	7.7	7.7	7.7	8.5	9.3	9.9	11.4	13.7	16.7	19.9	23.5
-67.5°	7.7	7.7	7.7	8.3	9.2	9.6	10.7	12.7	15.0	18.0	20.9
-70°	7.7	7.7	7.7	8.1	9.0	9.5	9.8	11.7	13.9	16.0	18.8
-72.5°	7.7	7.7	7.7	8.1	8.8	9.4	9.7	10.7	12.7	14.7	16.7
-75°	7.7	7.7	7.7	8.0	8.7	9.3	9.7	10.3	11.5	13.4	15.3
-77.5°	7.7	7.7	7.7	8.0	8.5	9.2	9.7	10.1	10.9	12.2	13.8
-80°	7.7	7.7	7.7	7.9	8.4	9.0	9.7	9.9	10.4	11.2	12.3
-82.5°	7.7	7.7	7.7	7.9	8.2	8.7	9.2	9.5	9.7	10.1	10.7
-85°	7.7	7.7	7.7	7.8	8.0	8.3	8.7	8.9	9.1	9.2	9.4
-87.5°	7.7	7.7	7.7	7.8	7.9	8.0	8.2	8.3	8.4	8.5	8.5
-90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7



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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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.2	8.7	9.2
87.5°	7.4	7.2	7.0	6.9	6.7	6.4	6.1	5.8	5.8	5.8	5.8
85°	7.7	7.7	7.7	7.7	7.2	6.8	6.3	5.8	5.8	5.8	5.8
82.5°	7.7	7.7	7.7	7.7	7.3	6.8	6.4	6.1	6.1	6.1	6.0
80°	7.7	7.7	7.7	7.7	7.5	7.3	7.3	7.4	7.2	6.8	6.4
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.4	6.9	6.4
75°	7.7	7.7	7.8	7.8	7.7	7.7	7.7	7.7	7.5	7.4	7.4
72.5°	8.0	8.3	8.2	7.9	7.7	7.7	7.7	7.7	9.1	11.1	12.5
70°	8.8	8.9	8.3	7.9	7.7	8.2	10.6	13.9	17.3	19.8	23.0
67.5°	9.4	8.5	7.9	7.9	9.3	11.9	15.6	24.0	33.2	36.8	37.8
65°	8.7	7.9	8.2	9.5	11.4	18.3	27.4	38.2	46.0	45.4	43.1
62.5°	7.9	8.0	9.0	12.1	18.4	27.0	35.2	42.7	50.2	48.2	41.3
60°	7.8	8.2	11.8	18.2	24.8	31.0	38.8	43.0	46.4	46.2	36.6
57.5°	8.0	10.4	16.8	23.0	28.2	33.0	35.4	38.4	39.6	39.7	29.7
55°	9.3	14.4	20.5	25.8	29.7	29.0	29.9	30.3	30.5	28.5	20.2
52.5°	12.3	17.7	22.7	27.3	28.3	25.5	22.2	22.4	20.9	17.7	14.6
50°	14.8	19.6	24.6	27.7	26.5	21.2	16.4	16.4	14.9	12.9	11.1
47.5°	16.6	21.5	26.3	28.0	23.6	19.2	15.2	13.2	11.8	11.4	10.2
45°	18.2	22.9	28.0	26.2	22.2	19.0	15.7	11.6	12.1	12.1	12.4
42.5°	19.7	24.0	26.8	25.0	22.7	20.3	17.3	14.9	14.0	15.4	16.0
40°	20.4	24.6	25.9	26.3	24.1	22.9	22.4	20.7	17.9	20.4	21.3
37.5°	20.7	24.6	26.9	30.2	27.3	28.0	29.2	29.6	28.0	27.3	30.7
35°	20.7	25.2	32.5	36.3	34.0	35.6	39.0	40.6	40.6	39.8	45.7
32.5°	21.2	26.6	40.2	43.4	45.9	48.0	50.2	53.8	57.1	60.9	70.5
30°	23.9	33.7	48.9	51.5	60.6	70.1	67.5	69.2	76.8	101.1	122.3
27.5°	29.8	43.4	56.6	64.4	79.2	99.2	105.4	93.1	115.2	152.9	188.8
25°	36.7	70.4	64.8	80.3	107.9	137.8	154.5	152.6	174.3	221.9	264.5
22.5°	51.6	105.6	102.2	97.6	141.2	185.1	213.7	263.3	333.2	332.9	348.3
20°	77.5	139.1	149.4	162.4	190.4	239.5	280.4	411.8	557.3	606.8	552.9
17.5°	107.8	176.2	203.2	247.0	309.3	341.1	364.4	589.3	835.2	932.8	963.3
15°	141.5	216.0	260.7	341.6	441.1	497.4	596.7	853.6	1144.2	1309.5	1432.3
12.5°	177.5	258.0	321.0	444.0	582.3	656.8	876.9	1248.8	1538.2	1737.6	2049.9
10°	214.6	301.3	382.9	551.3	730.1	818.1	1176.9	1655.7	1958.2	2188.9	2616.2
7.5°	255.4	344.4	444.4	660.9	881.1	980.0	1486.7	2065.8	2367.4	2624.5	3107.4
5°	295.1	385.8	499.6	754.1	1002.0	1116.7	1766.1	2468.3	2765.0	3044.0	3550.9
2.5°	331.8	425.5	552.6	839.9	1098.0	1212.3	1900.7	2673.1	2996.6	3342.8	3886.0
0°	364.2	463.0	602.5	918.3	1185.6	1303.8	2007.1	2849.8	3185.0	3578.2	4130.4
-2.5°	371.0	477.9	620.3	917.2	1173.9	1301.5	2017.4	2857.6	3249.9	3665.6	4206.0
-5°	372.8	489.8	634.0	908.0	1154.4	1294.0	1996.5	2828.7	3260.6	3644.3	4130.9
-7.5°	370.2	498.4	643.4	890.0	1116.6	1251.0	1878.8	2653.4	3090.1	3424.4	3882.0
-10°	363.5	497.2	632.9	849.5	1056.0	1185.8	1717.7	2451.2	2912.6	3200.4	3599.0
-12.5°	351.9	487.9	616.2	806.1	994.7	1119.2	1530.0	2227.1	2732.7	2978.5	3301.0
-15°	338.9	476.9	596.5	761.2	934.8	1052.2	1317.0	1985.4	2561.3	2811.6	3051.2
-17.5°	325.4	464.4	574.0	716.4	878.2	985.7	1086.9	1728.5	2344.5	2641.5	2873.0
-20°	312.0	450.7	549.1	672.7	825.0	934.2	1017.2	1468.3	2039.9	2452.9	2685.4



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	299.7	436.2	525.5	638.9	778.0	893.1	977.4	1213.6	1718.5	2247.9	2499.2
-25°	295.1	415.2	506.3	609.3	733.1	851.7	938.6	997.6	1414.8	1938.9	2321.7
-27.5°	295.3	397.7	487.8	577.5	688.2	807.6	894.3	955.2	1183.9	1635.2	2121.7
-30°	292.6	376.6	467.5	546.5	648.9	756.9	848.4	932.5	1004.9	1366.2	1795.5
-32.5°	281.6	354.5	443.0	522.3	609.3	707.9	810.9	900.9	979.4	1096.9	1486.0
-35°	266.6	336.1	416.4	496.3	569.2	664.2	765.5	863.9	947.3	1020.3	1197.7
-37.5°	253.0	315.3	388.9	467.7	539.3	620.7	716.7	815.3	904.9	991.6	1071.8
-40°	237.5	292.0	362.7	436.8	508.3	579.4	666.1	759.2	853.6	953.6	1050.2
-42.5°	219.6	272.8	334.7	404.6	472.4	542.1	613.2	700.7	795.7	901.4	1002.1
-45°	196.1	251.6	305.4	368.3	432.6	500.3	568.8	639.4	731.2	828.6	934.1
-47.5°	170.6	227.0	279.3	329.7	390.2	453.3	520.0	589.3	661.8	750.6	845.2
-50°	143.9	196.4	249.5	295.0	345.7	404.0	465.2	534.1	603.1	672.9	753.4
-52.5°	117.9	163.6	213.4	260.7	304.4	353.2	410.0	472.4	538.4	605.3	667.6
-55°	90.4	131.9	174.9	221.1	265.3	306.8	352.6	408.6	467.7	529.8	586.8
-57.5°	68.2	99.5	137.7	178.0	220.8	262.8	302.8	343.4	394.4	449.2	498.0
-60°	49.0	71.8	101.0	136.5	173.1	212.7	253.0	290.8	328.1	364.0	407.7
-62.5°	32.1	49.9	70.6	95.4	127.8	161.3	197.0	233.4	269.7	300.8	329.6
-65°	28.1	32.3	46.2	64.8	83.3	113.4	143.7	172.8	204.6	233.2	260.9
-67.5°	24.0	27.8	31.5	38.1	54.8	73.4	93.0	119.6	144.8	165.4	186.0
-70°	21.3	23.5	26.7	30.0	33.5	41.1	57.4	74.5	91.4	107.3	124.8
-72.5°	18.8	20.8	22.8	24.8	27.8	31.4	35.1	38.9	48.3	61.0	73.2
-75°	16.7	18.1	19.9	21.6	23.5	25.7	28.0	31.2	34.2	36.9	39.2
-77.5°	14.8	15.9	17.1	18.4	19.9	21.5	23.3	25.2	27.1	29.2	31.3
-80°	13.0	13.6	14.3	15.2	16.5	17.7	19.0	20.2	21.3	22.7	24.2
-82.5°	11.2	11.6	12.1	12.5	13.3	14.1	15.1	16.1	16.5	16.8	17.4
-85°	9.5	9.7	10.0	10.3	10.6	11.1	11.6	12.1	12.2	12.3	12.3
-87.5°	8.6	8.7	8.8	8.8	8.9	9.0	9.1	9.1	9.3	9.5	9.6
-90°	7.2	6.8	6.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	9.7	10.2	10.6	11.1	11.6	16.0	20.3	24.7	29.1	36.3	43.6
87.5°	5.8	5.3	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.9	1.9
85°	5.8	5.3	4.9	4.4	3.9	3.8	3.8	3.8	3.8	3.3	2.9
82.5°	5.8	5.4	4.9	4.4	3.9	3.9	3.9	3.9	3.9	3.4	2.9
80°	5.9	5.5	5.3	5.2	5.1	4.9	4.7	4.3	3.9	3.9	3.8
77.5°	6.1	6.1	6.1	6.0	5.9	5.4	4.9	4.5	4.0	3.9	3.9
75°	7.5	7.7	7.9	7.6	7.0	6.5	6.2	5.8	5.5	5.2	4.8
72.5°	13.5	13.6	13.0	12.5	11.3	10.8	10.9	10.7	10.4	10.2	10.1
70°	24.9	25.3	24.3	21.9	18.5	16.3	15.2	13.8	12.2	11.5	11.5
67.5°	35.4	32.4	29.2	26.0	21.8	18.2	16.1	14.2	12.4	11.4	10.9
65°	38.8	31.7	26.5	22.3	19.1	16.4	14.2	12.1	10.0	8.6	8.2
62.5°	33.7	25.1	20.0	16.9	14.7	13.2	11.1	9.1	7.4	6.5	6.7
60°	27.4	18.6	13.8	12.1	10.7	9.7	8.5	7.4	6.4	5.8	5.9
57.5°	20.5	13.5	9.7	9.4	8.9	8.1	7.4	6.8	6.3	5.8	5.8
55°	14.2	11.2	9.7	9.2	8.6	8.1	7.5	6.9	6.4	5.8	5.8
52.5°	11.1	10.2	9.8	9.4	8.8	8.2	7.6	7.1	6.5	5.9	5.8
50°	10.1	9.8	9.9	9.5	9.0	8.4	7.8	7.4	7.3	7.1	7.1
47.5°	10.4	10.7	10.5	9.8	9.4	9.4	9.5	9.5	9.6	9.2	9.1
45°	11.9	11.9	11.8	11.7	11.2	12.3	13.0	13.1	15.2	14.4	12.1
42.5°	14.8	15.5	16.3	17.3	15.9	20.4	27.4	32.2	27.5	21.8	18.3
40°	22.4	22.9	27.8	30.4	36.1	42.5	38.7	32.3	28.8	30.8	31.8
37.5°	35.3	41.2	49.3	58.3	56.1	46.5	47.6	47.5	45.8	49.7	50.0
35°	57.6	72.1	79.0	81.1	77.1	74.1	76.8	79.4	73.5	82.9	85.8
32.5°	94.1	111.9	115.8	111.7	112.1	118.6	123.5	132.3	141.1	155.2	172.1
30°	138.8	157.9	167.0	158.6	160.4	175.8	185.8	205.9	238.0	274.7	320.5
27.5°	205.6	219.8	236.1	238.4	230.7	253.3	288.7	309.8	396.2	453.4	556.4
25°	293.7	315.8	330.1	354.4	367.4	394.7	462.5	527.8	660.5	789.7	1008.9
22.5°	409.5	480.2	506.2	502.5	578.8	652.3	710.1	892.9	1154.3	1536.8	1967.3
20°	562.4	707.6	831.0	871.1	898.2	1092.1	1291.5	1858.9	2509.5	3595.2	4439.4
17.5°	1013.7	1061.4	1332.5	1553.1	1658.1	2068.6	2999.4	4427.9	6883.2	10242.9	12308.5
15°	1692.4	1828.8	2100.6	2567.2	3144.7	4233.1	5786.7	10341.1	16638.3	23520.0	30071.7
12.5°	2441.9	2726.4	3224.3	3911.5	4828.4	7933.7	12947.8	21516.4	33174.6	45097.3	60303.4
10°	3137.5	3709.6	4526.7	5686.7	8040.9	13345.8	21785.8	36351.0	57001.4	78534.0	100045.7
7.5°	3704.9	4523.3	5718.3	7455.8	11675.2	20192.2	34033.7	55493.7	81970.8	109673.5	138840.2
5°	4277.9	5313.9	6753.2	8855.5	14056.8	25481.6	43892.3	73271.8	107440.7	142346.9	179103.3
2.5°	4774.6	5986.6	7652.9	10109.1	15658.3	28344.4	49839.7	86016.4	126134.2	167905.2	214720.5
0°	5141.7	6375.8	8146.5	10701.8	17236.4	30573.0	53321.2	89783.7	130587.7	173711.7	221559.0
-2.5°	5090.5	6206.6	7811.7	10347.6	16688.0	30170.9	51146.5	86681.9	126617.4	167042.1	209715.4
-5°	4858.0	5828.5	7266.8	9536.6	14794.4	26177.1	45898.2	78647.9	115782.6	152724.2	190693.0
-7.5°	4503.5	5343.2	6603.8	8553.8	12610.8	21573.9	37963.2	63581.7	95507.6	127080.1	156369.5
-10°	4137.4	4821.3	5843.0	7383.8	10277.9	16540.7	28130.6	47282.4	73832.6	99833.5	122278.8
-12.5°	3793.2	4302.5	5029.1	6102.0	7885.7	12382.7	21133.7	35106.7	52841.4	72832.1	92267.5
-15°	3472.1	3848.7	4370.5	5235.8	6663.4	9330.8	14081.5	23393.3	35867.8	49821.6	63256.6
-17.5°	3177.8	3488.3	3895.5	4504.7	5389.3	7038.8	10366.8	15690.6	23222.2	33147.7	42425.5
-20°	2914.0	3195.3	3499.9	3956.3	4635.5	5606.5	7244.9	10549.9	14896.0	21152.0	27287.8



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2707.5	2928.4	3165.1	3514.3	4080.5	4769.0	5583.5	6937.5	9329.7	12538.5	16172.6
-25°	2518.8	2682.3	2927.9	3303.7	3691.6	4150.8	4644.7	5187.8	6249.2	7281.2	9183.8
-27.5°	2339.3	2511.9	2767.8	3106.8	3460.7	3675.2	3991.1	4326.4	4834.2	5282.3	6040.3
-30°	2189.6	2370.8	2588.1	2874.2	3172.2	3374.1	3538.5	3781.2	4062.7	4343.8	4669.9
-32.5°	1908.4	2254.1	2404.6	2622.8	2891.1	3103.6	3249.1	3429.4	3579.8	3754.5	3931.7
-35°	1600.7	1982.0	2293.4	2434.5	2620.0	2856.3	3063.2	3208.0	3324.5	3432.3	3533.8
-37.5°	1252.4	1649.0	1989.1	2275.3	2445.1	2603.4	2822.7	3017.5	3157.8	3231.9	3297.9
-40°	1119.9	1234.4	1593.7	1922.0	2177.6	2425.5	2596.4	2787.4	2949.5	3051.8	3128.4
-42.5°	1097.3	1156.1	1202.5	1451.3	1761.4	2027.0	2253.3	2476.1	2674.1	2820.9	2939.4
-45°	1036.0	1106.0	1171.2	1217.2	1265.0	1499.8	1752.4	1998.4	2221.9	2421.8	2596.6
-47.5°	937.1	1020.6	1090.3	1157.1	1209.0	1249.9	1297.2	1375.6	1584.9	1790.4	1985.5
-50°	829.6	905.2	980.8	1052.6	1109.0	1158.5	1204.1	1243.0	1282.3	1323.4	1362.4
-52.5°	723.3	790.9	858.1	921.2	981.2	1037.7	1090.3	1128.9	1162.0	1191.1	1213.1
-55°	639.6	689.9	738.9	792.4	845.7	895.6	941.3	983.1	1021.1	1055.0	1081.1
-57.5°	547.2	596.6	643.5	683.5	722.4	759.9	798.7	835.8	868.6	896.9	920.0
-60°	450.7	492.9	534.6	574.0	611.5	646.9	678.6	707.9	734.2	756.9	773.8
-62.5°	357.6	390.8	428.4	462.7	492.8	521.6	554.4	583.8	610.0	631.8	647.9
-65°	287.1	311.0	338.0	364.5	390.6	418.6	447.2	472.5	494.7	513.0	527.4
-67.5°	209.2	232.7	259.0	282.8	304.7	328.5	355.8	380.8	403.7	422.2	437.2
-70°	141.1	157.7	178.4	200.7	222.2	244.8	269.7	293.7	316.6	334.1	348.4
-72.5°	84.7	95.6	106.7	121.1	136.4	155.0	175.9	196.9	217.7	232.8	244.6
-75°	41.4	45.8	54.9	63.4	71.0	81.0	91.6	101.5	110.9	117.7	123.3
-77.5°	33.5	35.6	37.7	39.8	41.7	46.0	51.3	56.7	62.2	66.6	70.8
-80°	25.7	27.1	28.5	30.0	31.6	34.9	38.5	42.1	45.8	48.5	51.1
-82.5°	18.0	18.7	19.3	19.9	20.5	22.9	25.4	27.8	30.1	32.3	34.4
-85°	12.2	12.4	12.6	12.7	12.9	15.3	17.7	20.2	22.8	24.8	26.9
-87.5°	9.7	9.8	9.8	9.9	9.9	11.9	13.9	15.9	17.8	19.7	21.6
-90°	5.8	5.3	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.4	1.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	50.8	58.1	53.2	48.4	53.2	58.1	50.8	43.6	36.3	29.1	24.7
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	2.9	3.3	3.8	3.8
82.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	3.9
80°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.9	3.9	4.3
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.5
75°	4.4	3.9	4.8	5.8	4.8	3.9	4.4	4.8	5.2	5.5	5.8
72.5°	9.9	9.6	9.7	9.7	9.7	9.6	9.9	10.1	10.2	10.4	10.7
70°	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.5	11.5	12.2	13.8
67.5°	10.4	9.8	9.7	9.7	9.7	9.8	10.4	10.9	11.4	12.4	14.2
65°	7.9	7.8	7.7	7.7	7.7	7.8	7.9	8.2	8.6	10.0	12.1
62.5°	7.1	7.6	7.7	7.7	7.7	7.6	7.1	6.7	6.5	7.4	9.1
60°	5.9	5.9	5.8	5.8	5.8	5.9	5.9	5.9	5.8	6.4	7.4
57.5°	5.8	5.8	6.6	7.7	6.6	5.8	5.8	5.8	5.8	6.3	6.8
55°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.4	6.9
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.9	6.5	7.1
50°	7.4	7.6	7.7	7.7	7.7	7.6	7.4	7.1	7.1	7.3	7.4
47.5°	9.3	9.5	9.0	7.7	9.0	9.5	9.3	9.1	9.2	9.6	9.5
45°	12.1	11.8	11.5	11.6	11.5	11.8	12.1	12.1	14.4	15.2	13.1
42.5°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.3	21.8	27.5	32.2
40°	33.5	34.3	34.5	34.9	34.5	34.3	33.5	31.8	30.8	28.8	32.3
37.5°	50.7	51.6	51.8	52.3	51.8	51.6	50.7	50.0	49.7	45.8	47.5
35°	85.5	85.2	82.3	83.3	82.3	85.2	85.5	85.8	82.9	73.5	79.4
32.5°	183.7	185.1	175.6	160.8	175.6	185.1	183.7	172.1	155.2	141.1	132.3
30°	355.0	385.3	405.7	406.8	405.7	385.3	355.0	320.5	274.7	238.0	205.9
27.5°	625.1	672.4	692.6	703.3	692.6	672.4	625.1	556.4	453.4	396.2	309.8
25°	1181.2	1289.5	1348.1	1303.8	1348.1	1289.5	1181.2	1008.9	789.7	660.5	527.8
22.5°	2376.8	2584.0	2760.6	2770.4	2760.6	2584.0	2376.8	1967.3	1536.8	1154.3	892.9
20°	5613.0	5566.0	6012.4	5788.7	6012.4	5566.0	5613.0	4439.4	3595.2	2509.5	1858.9
17.5°	15921.0	17682.1	18655.4	17323.6	18655.4	17682.1	15921.0	12308.5	10242.9	6883.2	4427.9
15°	36601.7	40995.0	43967.6	43588.0	43967.6	40995.0	36601.7	30071.7	23520.0	16638.3	10341.1
12.5°	68820.7	76040.1	82193.7	81935.6	82193.7	76040.1	68820.7	60303.4	45097.3	33174.6	21516.4
10°	119210.9	131797.5	143527.6	144749.6	143527.6	131797.5	119210.9	100045.7	78534.0	57001.4	36351.0
7.5°	165636.2	193979.6	210874.7	215209.4	210874.7	193979.6	165636.2	138840.2	109673.5	81970.8	55493.7
5°	223768.6	256591.4	274348.1	274822.0	274348.1	256591.4	223768.6	179103.3	142346.9	107440.7	73271.8
2.5°	266802.7	303775.4	325578.2	342447.4	325578.2	303775.4	266802.7	214720.5	167905.2	126134.2	86016.4
0°	279601.4	311486.0	347063.1	366843.3	347063.1	311486.0	279601.4	221559.0	173711.7	130587.7	89783.7
-2.5°	262451.8	295834.5	313495.3	329584.5	313495.3	295834.5	262451.8	209715.4	167042.1	126617.4	86681.9
-5°	229872.0	265229.7	282198.2	285820.2	282198.2	265229.7	229872.0	190693.0	152724.2	115782.6	78647.9
-7.5°	182909.6	207795.6	224974.3	231711.5	224974.3	207795.6	182909.6	156369.5	127080.1	95507.6	63581.7
-10°	143151.8	159221.5	167818.2	173534.5	167818.2	159221.5	143151.8	122278.8	99833.5	73832.6	47282.4
-12.5°	107932.3	119548.9	126291.0	129225.7	126291.0	119548.9	107932.3	92267.5	72832.1	52841.4	35106.7
-15°	76825.6	86017.7	90582.9	93489.8	90582.9	86017.7	76825.6	63256.6	49821.6	35867.8	23393.3
-17.5°	52635.7	60026.8	64239.5	66979.3	64239.5	60026.8	52635.7	42425.5	33147.7	23222.2	15690.6
-20°	33677.7	38078.6	41320.1	42264.8	41320.1	38078.6	33677.7	27287.8	21152.0	14896.0	10549.9



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	19676.8	22268.0	23900.5	24270.9	23900.5	22268.0	19676.8	16172.6	12538.5	9329.7	6937.5
-25°	10698.7	11827.7	12684.2	12974.3	12684.2	11827.7	10698.7	9183.8	7281.2	6249.2	5187.8
-27.5°	6570.1	7006.6	7322.9	7485.8	7322.9	7006.6	6570.1	6040.3	5282.3	4834.2	4326.4
-30°	4941.7	5140.8	5259.6	5339.3	5259.6	5140.8	4941.7	4669.9	4343.8	4062.7	3781.2
-32.5°	4057.3	4146.5	4200.1	4236.9	4200.1	4146.5	4057.3	3931.7	3754.5	3579.8	3429.4
-35°	3614.1	3671.9	3711.7	3731.3	3711.7	3671.9	3614.1	3533.8	3432.3	3324.5	3208.0
-37.5°	3347.0	3383.5	3410.0	3425.2	3410.0	3383.5	3347.0	3297.9	3231.9	3157.8	3017.5
-40°	3165.0	3190.6	3211.7	3235.3	3211.7	3190.6	3165.0	3128.4	3051.8	2949.5	2787.4
-42.5°	2998.9	3036.8	3056.0	3061.0	3056.0	3036.8	2998.9	2939.4	2820.9	2674.1	2476.1
-45°	2730.4	2835.9	2900.7	2921.5	2900.7	2835.9	2730.4	2596.6	2421.8	2221.9	1998.4
-47.5°	2164.9	2322.7	2441.9	2514.7	2441.9	2322.7	2164.9	1985.5	1790.4	1584.9	1375.6
-50°	1398.8	1432.2	1445.3	1437.5	1445.3	1432.2	1398.8	1362.4	1323.4	1282.3	1243.0
-52.5°	1230.4	1243.8	1255.0	1263.1	1255.0	1243.8	1230.4	1213.1	1191.1	1162.0	1128.9
-55°	1101.6	1116.7	1130.9	1143.0	1130.9	1116.7	1101.6	1081.1	1055.0	1021.1	983.1
-57.5°	939.3	954.6	960.3	959.0	960.3	954.6	939.3	920.0	896.9	868.6	835.8
-60°	787.8	798.6	806.8	811.7	806.8	798.6	787.8	773.8	756.9	734.2	707.9
-62.5°	660.6	670.0	680.6	689.7	680.6	670.0	660.6	647.9	631.8	610.0	583.8
-65°	539.5	549.5	557.6	563.8	557.6	549.5	539.5	527.4	513.0	494.7	472.5
-67.5°	450.6	462.5	471.4	478.5	471.4	462.5	450.6	437.2	422.2	403.7	380.8
-70°	361.6	373.4	380.5	385.5	380.5	373.4	361.6	348.4	334.1	316.6	293.7
-72.5°	254.8	263.4	267.4	269.3	267.4	263.4	254.8	244.6	232.8	217.7	196.9
-75°	128.1	132.3	136.2	139.5	136.2	132.3	128.1	123.3	117.7	110.9	101.5
-77.5°	74.8	78.8	81.2	83.3	81.2	78.8	74.8	70.8	66.6	62.2	56.7
-80°	53.6	55.9	58.0	60.1	58.0	55.9	53.6	51.1	48.5	45.8	42.1
-82.5°	36.5	38.6	39.7	40.7	39.7	38.6	36.5	34.4	32.3	30.1	27.8
-85°	28.9	30.9	31.9	32.9	31.9	30.9	28.9	26.9	24.8	22.8	20.2
-87.5°	23.5	25.3	26.2	27.1	26.2	25.3	23.5	21.6	19.7	17.8	15.9
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.4	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	20.3	16.0	11.6	11.1	10.6	10.2	9.7	9.2	8.7	8.2	7.7
87.5°	2.9	3.4	3.9	4.4	4.9	5.3	5.8	5.8	5.8	5.8	5.8
85°	3.8	3.8	3.9	4.4	4.9	5.3	5.8	5.8	5.8	5.8	5.8
82.5°	3.9	3.9	3.9	4.4	4.9	5.4	5.8	6.0	6.1	6.1	6.1
80°	4.7	4.9	5.1	5.2	5.3	5.5	5.9	6.4	6.8	7.2	7.4
77.5°	4.9	5.4	5.9	6.0	6.1	6.1	6.1	6.4	6.9	7.4	7.7
75°	6.2	6.5	7.0	7.6	7.9	7.7	7.5	7.4	7.4	7.5	7.7
72.5°	10.9	10.8	11.3	12.5	13.0	13.6	13.5	12.5	11.1	9.1	7.7
70°	15.2	16.3	18.5	21.9	24.3	25.3	24.9	23.0	19.8	17.3	13.9
67.5°	16.1	18.2	21.8	26.0	29.2	32.4	35.4	37.8	36.8	33.2	24.0
65°	14.2	16.4	19.1	22.3	26.5	31.7	38.8	43.1	45.4	46.0	38.2
62.5°	11.1	13.2	14.7	16.9	20.0	25.1	33.7	41.3	48.2	50.2	42.7
60°	8.5	9.7	10.7	12.1	13.8	18.6	27.4	36.6	46.2	46.4	43.0
57.5°	7.4	8.1	8.9	9.4	9.7	13.5	20.5	29.7	39.7	39.6	38.4
55°	7.5	8.1	8.6	9.2	9.7	11.2	14.2	20.2	28.5	30.5	30.3
52.5°	7.6	8.2	8.8	9.4	9.8	10.2	11.1	14.6	17.7	20.9	22.4
50°	7.8	8.4	9.0	9.5	9.9	9.8	10.1	11.1	12.9	14.9	16.4
47.5°	9.5	9.4	9.4	9.8	10.5	10.7	10.4	10.2	11.4	11.8	13.2
45°	13.0	12.3	11.2	11.7	11.8	11.9	11.9	12.4	12.1	12.1	11.6
42.5°	27.4	20.4	15.9	17.3	16.3	15.5	14.8	16.0	15.4	14.0	14.9
40°	38.7	42.5	36.1	30.4	27.8	22.9	22.4	21.3	20.4	17.9	20.7
37.5°	47.6	46.5	56.1	58.3	49.3	41.2	35.3	30.7	27.3	28.0	29.6
35°	76.8	74.1	77.1	81.1	79.0	72.1	57.6	45.7	39.8	40.6	40.6
32.5°	123.5	118.6	112.1	111.7	115.8	111.9	94.1	70.5	60.9	57.1	53.8
30°	185.8	175.8	160.4	158.6	167.0	157.9	138.8	122.3	101.1	76.8	69.2
27.5°	288.7	253.3	230.7	238.4	236.1	219.8	205.6	188.8	152.9	115.2	93.1
25°	462.5	394.7	367.4	354.4	330.1	315.8	293.7	264.5	221.9	174.3	152.6
22.5°	710.1	652.3	578.8	502.5	506.2	480.2	409.5	348.3	332.9	333.2	263.3
20°	1291.5	1092.1	898.2	871.1	831.0	707.6	562.4	552.9	606.8	557.3	411.8
17.5°	2999.4	2068.6	1658.1	1553.1	1332.5	1061.4	1013.7	963.3	932.8	835.2	589.3
15°	5786.7	4233.1	3144.7	2567.2	2100.6	1828.8	1692.4	1432.3	1309.5	1144.2	853.6
12.5°	12947.8	7933.7	4828.4	3911.5	3224.3	2726.4	2441.9	2049.9	1737.6	1538.2	1248.8
10°	21785.8	13345.8	8040.9	5686.7	4526.7	3709.6	3137.5	2616.2	2188.9	1958.2	1655.7
7.5°	34033.7	20192.2	11675.2	7455.8	5718.3	4523.3	3704.9	3107.4	2624.5	2367.4	2065.8
5°	43892.3	25481.6	14056.8	8855.5	6753.2	5313.9	4277.9	3550.9	3044.0	2765.0	2468.3
2.5°	49839.7	28344.4	15658.3	10109.1	7652.9	5986.6	4774.6	3886.0	3342.8	2996.6	2673.1
0°	53321.2	30573.0	17236.4	10701.8	8146.5	6375.8	5141.7	4130.4	3578.2	3185.0	2849.8
-2.5°	51146.5	30170.9	16688.0	10347.6	7811.7	6206.6	5090.5	4206.0	3665.6	3249.9	2857.6
-5°	45898.2	26177.1	14794.4	9536.6	7266.8	5828.5	4858.0	4130.9	3644.3	3260.6	2828.7
-7.5°	37963.2	21573.9	12610.8	8553.8	6603.8	5343.2	4503.5	3882.0	3424.4	3090.1	2653.4
-10°	28130.6	16540.7	10277.9	7383.8	5843.0	4821.3	4137.4	3599.0	3200.4	2912.6	2451.2
-12.5°	21133.7	12382.7	7885.7	6102.0	5029.1	4302.5	3793.2	3301.0	2978.5	2732.7	2227.1
-15°	14081.5	9330.8	6663.4	5235.8	4370.5	3848.7	3472.1	3051.2	2811.6	2561.3	1985.4
-17.5°	10366.8	7038.8	5389.3	4504.7	3895.5	3488.3	3177.8	2873.0	2641.5	2344.5	1728.5
-20°	7244.9	5606.5	4635.5	3956.3	3499.9	3195.3	2914.0	2685.4	2452.9	2039.9	1468.3



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5583.5	4769.0	4080.5	3514.3	3165.1	2928.4	2707.5	2499.2	2247.9	1718.5	1213.6
-25°	4644.7	4150.8	3691.6	3303.7	2927.9	2682.3	2518.8	2321.7	1938.9	1414.8	997.6
-27.5°	3991.1	3675.2	3460.7	3106.8	2767.8	2511.9	2339.3	2121.7	1635.2	1183.9	955.2
-30°	3538.5	3374.1	3172.2	2874.2	2588.1	2370.8	2189.6	1795.5	1366.2	1004.9	932.5
-32.5°	3249.1	3103.6	2891.1	2622.8	2404.6	2254.1	1908.4	1486.0	1096.9	979.4	900.9
-35°	3063.2	2856.3	2620.0	2434.5	2293.4	1982.0	1600.7	1197.7	1020.3	947.3	863.9
-37.5°	2822.7	2603.4	2445.1	2275.3	1989.1	1649.0	1252.4	1071.8	991.6	904.9	815.3
-40°	2596.4	2425.5	2177.6	1922.0	1593.7	1234.4	1119.9	1050.2	953.6	853.6	759.2
-42.5°	2253.3	2027.0	1761.4	1451.3	1202.5	1156.1	1097.3	1002.1	901.4	795.7	700.7
-45°	1752.4	1499.8	1265.0	1217.2	1171.2	1106.0	1036.0	934.1	828.6	731.2	639.4
-47.5°	1297.2	1249.9	1209.0	1157.1	1090.3	1020.6	937.1	845.2	750.6	661.8	589.3
-50°	1204.1	1158.5	1109.0	1052.6	980.8	905.2	829.6	753.4	672.9	603.1	534.1
-52.5°	1090.3	1037.7	981.2	921.2	858.1	790.9	723.3	667.6	605.3	538.4	472.4
-55°	941.3	895.6	845.7	792.4	738.9	689.9	639.6	586.8	529.8	467.7	408.6
-57.5°	798.7	759.9	722.4	683.5	643.5	596.6	547.2	498.0	449.2	394.4	343.4
-60°	678.6	646.9	611.5	574.0	534.6	492.9	450.7	407.7	364.0	328.1	290.8
-62.5°	554.4	521.6	492.8	462.7	428.4	390.8	357.6	329.6	300.8	269.7	233.4
-65°	447.2	418.6	390.6	364.5	338.0	311.0	287.1	260.9	233.2	204.6	172.8
-67.5°	355.8	328.5	304.7	282.8	259.0	232.7	209.2	186.0	165.4	144.8	119.6
-70°	269.7	244.8	222.2	200.7	178.4	157.7	141.1	124.8	107.3	91.4	74.5
-72.5°	175.9	155.0	136.4	121.1	106.7	95.6	84.7	73.2	61.0	48.3	38.9
-75°	91.6	81.0	71.0	63.4	54.9	45.8	41.4	39.2	36.9	34.2	31.2
-77.5°	51.3	46.0	41.7	39.8	37.7	35.6	33.5	31.3	29.2	27.1	25.2
-80°	38.5	34.9	31.6	30.0	28.5	27.1	25.7	24.2	22.7	21.3	20.2
-82.5°	25.4	22.9	20.5	19.9	19.3	18.7	18.0	17.4	16.8	16.5	16.1
-85°	17.7	15.3	12.9	12.7	12.6	12.4	12.2	12.3	12.3	12.2	12.1
-87.5°	13.9	11.9	9.9	9.9	9.8	9.8	9.7	9.6	9.5	9.3	9.1
-90°	2.9	3.4	3.9	4.4	4.9	5.3	5.8	5.8	5.8	5.8	5.8



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	6.1	6.4	6.7	6.9	7.0	7.2	7.4	7.7	7.7	7.7	7.7
85°	6.3	6.8	7.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	6.4	6.8	7.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	7.3	7.3	7.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	7.7	7.7	7.7	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	7.7	7.7	7.7	7.9	8.2	8.3	8.0	7.7	7.7	7.7	7.7
70°	10.6	8.2	7.7	7.9	8.3	8.9	8.8	8.3	7.7	7.7	7.7
67.5°	15.6	11.9	9.3	7.9	7.9	8.5	9.4	9.1	8.4	7.7	7.7
65°	27.4	18.3	11.4	9.5	8.2	7.9	8.7	9.5	9.1	8.3	7.7
62.5°	35.2	27.0	18.4	12.1	9.0	8.0	7.9	9.0	9.6	9.0	8.1
60°	38.8	31.0	24.8	18.2	11.8	8.2	7.8	8.5	9.3	9.6	8.6
57.5°	35.4	33.0	28.2	23.0	16.8	10.4	8.0	8.4	9.1	9.6	9.1
55°	29.9	29.0	29.7	25.8	20.5	14.4	9.3	8.5	9.0	9.5	9.6
52.5°	22.2	25.5	28.3	27.3	22.7	17.7	12.3	8.6	9.1	9.5	9.7
50°	16.4	21.2	26.5	27.7	24.6	19.6	14.8	10.5	9.2	9.6	9.8
47.5°	15.2	19.2	23.6	28.0	26.3	21.5	16.6	12.1	9.3	9.7	10.0
45°	15.7	19.0	22.2	26.2	28.0	22.9	18.2	13.3	10.3	9.9	10.1
42.5°	17.3	20.3	22.7	25.0	26.8	24.0	19.7	14.6	10.9	10.1	10.3
40°	22.4	22.9	24.1	26.3	25.9	24.6	20.4	15.8	11.3	10.6	10.6
37.5°	29.2	28.0	27.3	30.2	26.9	24.6	20.7	16.9	12.5	11.4	10.9
35°	39.0	35.6	34.0	36.3	32.5	25.2	20.7	17.6	14.5	12.2	11.3
32.5°	50.2	48.0	45.9	43.4	40.2	26.6	21.2	19.3	16.6	13.1	11.7
30°	67.5	70.1	60.6	51.5	48.9	33.7	23.9	21.5	18.8	14.0	12.2
27.5°	105.4	99.2	79.2	64.4	56.6	43.4	29.8	24.0	21.0	15.3	12.9
25°	154.5	137.8	107.9	80.3	64.8	70.4	36.7	27.0	23.1	17.1	13.7
22.5°	213.7	185.1	141.2	97.6	102.2	105.6	51.6	32.5	25.4	18.9	14.4
20°	280.4	239.5	190.4	162.4	149.4	139.1	77.5	38.6	27.9	20.6	15.2
17.5°	364.4	341.1	309.3	247.0	203.2	176.2	107.8	45.2	30.5	22.3	15.9
15°	596.7	497.4	441.1	341.6	260.7	216.0	141.5	52.0	33.1	24.0	16.8
12.5°	876.9	656.8	582.3	444.0	321.0	258.0	177.5	59.1	35.9	25.9	17.8
10°	1176.9	818.1	730.1	551.3	382.9	301.3	214.6	67.7	40.5	28.0	18.9
7.5°	1486.7	980.0	881.1	660.9	444.4	344.4	255.4	79.8	45.5	29.9	20.0
5°	1766.1	1116.7	1002.0	754.1	499.6	385.8	295.1	91.8	50.5	31.7	21.2
2.5°	1900.7	1212.3	1098.0	839.9	552.6	425.5	331.8	103.4	55.5	33.4	22.2
0°	2007.1	1303.8	1185.6	918.3	602.5	463.0	364.2	114.3	60.1	34.9	23.2
-2.5°	2017.4	1301.5	1173.9	917.2	620.3	477.9	371.0	130.9	73.9	44.3	27.7
-5°	1996.5	1294.0	1154.4	908.0	634.0	489.8	372.8	146.2	87.0	53.3	32.0
-7.5°	1878.8	1251.0	1116.6	890.0	643.4	498.4	370.2	160.3	99.2	61.6	35.9
-10°	1717.7	1185.8	1056.0	849.5	632.9	497.2	363.5	172.8	110.4	69.1	39.3
-12.5°	1530.0	1119.2	994.7	806.1	616.2	487.9	351.9	184.2	120.4	75.6	42.2
-15°	1317.0	1052.2	934.8	761.2	596.5	476.9	338.9	194.1	129.5	81.5	44.4
-17.5°	1086.9	985.7	878.2	716.4	574.0	464.4	325.4	202.0	137.4	87.1	46.9
-20°	1017.2	934.2	825.0	672.7	549.1	450.7	312.0	207.9	143.8	91.2	49.3



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	977.4	893.1	778.0	638.9	525.5	436.2	299.7	211.6	148.8	93.9	50.5
-25°	938.6	851.7	733.1	609.3	506.3	415.2	295.1	213.0	152.2	94.9	50.6
-27.5°	894.3	807.6	688.2	577.5	487.8	397.7	295.3	215.9	153.7	94.3	49.5
-30°	848.4	756.9	648.9	546.5	467.5	376.6	292.6	217.0	152.6	92.7	47.0
-32.5°	810.9	707.9	609.3	522.3	443.0	354.5	281.6	216.0	149.2	89.7	45.3
-35°	765.5	664.2	569.2	496.3	416.4	336.1	266.6	212.9	143.3	84.9	43.0
-37.5°	716.7	620.7	539.3	467.7	388.9	315.3	253.0	198.6	135.0	78.1	39.6
-40°	666.1	579.4	508.3	436.8	362.7	292.0	237.5	181.1	125.3	69.4	35.0
-42.5°	613.2	542.1	472.4	404.6	334.7	272.8	219.6	161.7	110.0	61.7	29.3
-45°	568.8	500.3	432.6	368.3	305.4	251.6	196.1	140.8	93.0	53.8	25.1
-47.5°	520.0	453.3	390.2	329.7	279.3	227.0	170.6	120.3	74.8	44.4	23.8
-50°	465.2	404.0	345.7	295.0	249.5	196.4	143.9	98.4	61.8	32.9	22.4
-52.5°	410.0	353.2	304.4	260.7	213.4	163.6	117.9	76.0	48.1	27.6	20.7
-55°	352.6	306.8	265.3	221.1	174.9	131.9	90.4	60.0	33.8	25.1	18.8
-57.5°	302.8	262.8	220.8	178.0	137.7	99.5	68.2	43.3	28.3	22.5	17.7
-60°	253.0	212.7	173.1	136.5	101.0	71.8	49.0	30.6	25.2	20.0	16.4
-62.5°	197.0	161.3	127.8	95.4	70.6	49.9	32.1	27.1	22.1	18.4	15.0
-65°	143.7	113.4	83.3	64.8	46.2	32.3	28.1	23.5	19.9	16.7	13.7
-67.5°	93.0	73.4	54.8	38.1	31.5	27.8	24.0	20.9	18.0	15.0	12.7
-70°	57.4	41.1	33.5	30.0	26.7	23.5	21.3	18.8	16.0	13.9	11.7
-72.5°	35.1	31.4	27.8	24.8	22.8	20.8	18.8	16.7	14.7	12.7	10.7
-75°	28.0	25.7	23.5	21.6	19.9	18.1	16.7	15.3	13.4	11.5	10.3
-77.5°	23.3	21.5	19.9	18.4	17.1	15.9	14.8	13.8	12.2	10.9	10.1
-80°	19.0	17.7	16.5	15.2	14.3	13.6	13.0	12.3	11.2	10.4	9.9
-82.5°	15.1	14.1	13.3	12.5	12.1	11.6	11.2	10.7	10.1	9.7	9.5
-85°	11.6	11.1	10.6	10.3	10.0	9.7	9.5	9.4	9.2	9.1	8.9
-87.5°	9.1	9.0	8.9	8.8	8.8	8.7	8.6	8.5	8.5	8.4	8.3
-90°	5.8	5.8	5.8	5.8	6.3	6.8	7.2	7.7	7.7	7.7	7.7



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
85°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7
67.5°	7.8	7.7	7.7	7.7	7.7	7.7	7.7
65°	7.8	7.8	7.7	7.7	7.7	7.7	7.7
62.5°	7.9	7.9	7.7	7.7	7.7	7.7	7.7
60°	8.1	8.1	7.7	7.7	7.7	7.7	7.7
57.5°	8.5	8.3	7.9	7.7	7.7	7.7	7.7
55°	8.8	8.5	8.1	7.7	7.8	7.7	7.7
52.5°	9.2	8.7	8.3	7.7	7.8	7.7	7.7
50°	9.5	9.0	8.5	7.7	7.8	7.7	7.7
47.5°	9.7	9.2	8.8	7.7	7.9	7.7	7.7
45°	9.9	9.3	9.0	7.9	7.9	7.7	7.7
42.5°	10.1	9.5	9.2	8.1	8.0	7.7	7.7
40°	10.3	9.6	9.4	8.3	8.1	7.7	7.7
37.5°	10.5	9.7	9.5	8.6	8.2	7.7	7.7
35°	10.8	9.8	9.6	8.8	8.2	7.7	7.7
32.5°	11.1	10.0	9.6	8.9	8.3	7.7	7.7
30°	11.4	10.2	9.7	9.1	8.4	7.7	7.7
27.5°	11.7	10.4	9.7	9.2	8.5	7.7	7.7
25°	12.1	10.7	9.7	9.3	8.6	7.7	7.7
22.5°	12.4	10.9	9.7	9.4	8.7	7.7	7.7
20°	12.8	11.0	9.7	9.5	8.9	7.7	7.7
17.5°	13.0	11.2	9.7	9.6	9.0	7.7	7.7
15°	13.2	11.3	9.7	9.6	9.1	7.7	7.7
12.5°	13.3	11.4	9.7	9.7	9.2	7.7	7.7
10°	13.4	11.5	9.7	9.7	9.3	7.7	7.7
7.5°	13.5	11.5	9.7	9.7	9.4	7.7	7.7
5°	13.6	11.6	9.7	9.7	9.5	7.7	7.7
2.5°	13.6	11.6	9.7	9.7	9.6	7.7	7.7
0°	13.6	11.6	9.7	9.7	9.6	7.7	7.7
-2.5°	15.4	12.0	9.9	9.7	9.7	7.7	7.7
-5°	17.1	12.4	10.0	9.7	9.7	7.7	7.7
-7.5°	18.7	12.8	10.2	9.7	9.7	7.7	7.7
-10°	20.1	13.1	10.3	9.7	9.6	7.7	7.7
-12.5°	21.3	13.4	10.5	9.7	9.6	7.7	7.7
-15°	22.3	13.6	10.6	9.7	9.6	7.7	7.7
-17.5°	23.0	13.8	10.6	9.7	9.5	7.7	7.7
-20°	23.6	13.9	10.7	9.7	9.5	7.7	7.7



REPORT NUMBER: P701493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.4	13.9	10.7	9.7	9.4	7.7	7.7
-25°	24.5	14.0	10.7	9.7	9.3	7.7	7.7
-27.5°	24.0	14.1	10.7	9.7	9.2	7.7	7.7
-30°	22.7	14.1	10.6	9.7	9.2	7.7	7.7
-32.5°	20.8	14.0	10.6	9.7	9.1	7.7	7.7
-35°	20.0	13.8	10.6	9.7	9.0	7.7	7.7
-37.5°	19.6	13.6	10.5	9.7	8.9	7.7	7.7
-40°	19.2	13.5	10.4	9.7	8.8	7.7	7.7
-42.5°	18.5	13.3	10.4	9.7	8.6	7.7	7.7
-45°	17.6	13.0	10.4	9.7	8.5	7.7	7.7
-47.5°	16.6	12.7	10.4	9.7	8.4	7.7	7.7
-50°	16.0	12.2	10.3	9.6	8.3	7.7	7.7
-52.5°	15.3	11.7	10.2	9.4	8.1	7.7	7.7
-55°	14.6	11.5	10.1	9.2	8.0	7.7	7.7
-57.5°	13.7	11.2	9.9	9.0	7.8	7.7	7.7
-60°	12.8	10.8	9.7	8.8	7.7	7.7	7.7
-62.5°	12.1	10.4	9.5	8.7	7.7	7.7	7.7
-65°	11.4	9.9	9.3	8.5	7.7	7.7	7.7
-67.5°	10.7	9.6	9.2	8.3	7.7	7.7	7.7
-70°	9.8	9.5	9.0	8.1	7.7	7.7	7.7
-72.5°	9.7	9.4	8.8	8.1	7.7	7.7	7.7
-75°	9.7	9.3	8.7	8.0	7.7	7.7	7.7
-77.5°	9.7	9.2	8.5	8.0	7.7	7.7	7.7
-80°	9.7	9.0	8.4	7.9	7.7	7.7	7.7
-82.5°	9.2	8.7	8.2	7.9	7.7	7.7	7.7
-85°	8.7	8.3	8.0	7.8	7.7	7.7	7.7
-87.5°	8.2	8.0	7.9	7.8	7.7	7.7	7.7
-90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7

(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

