

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: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

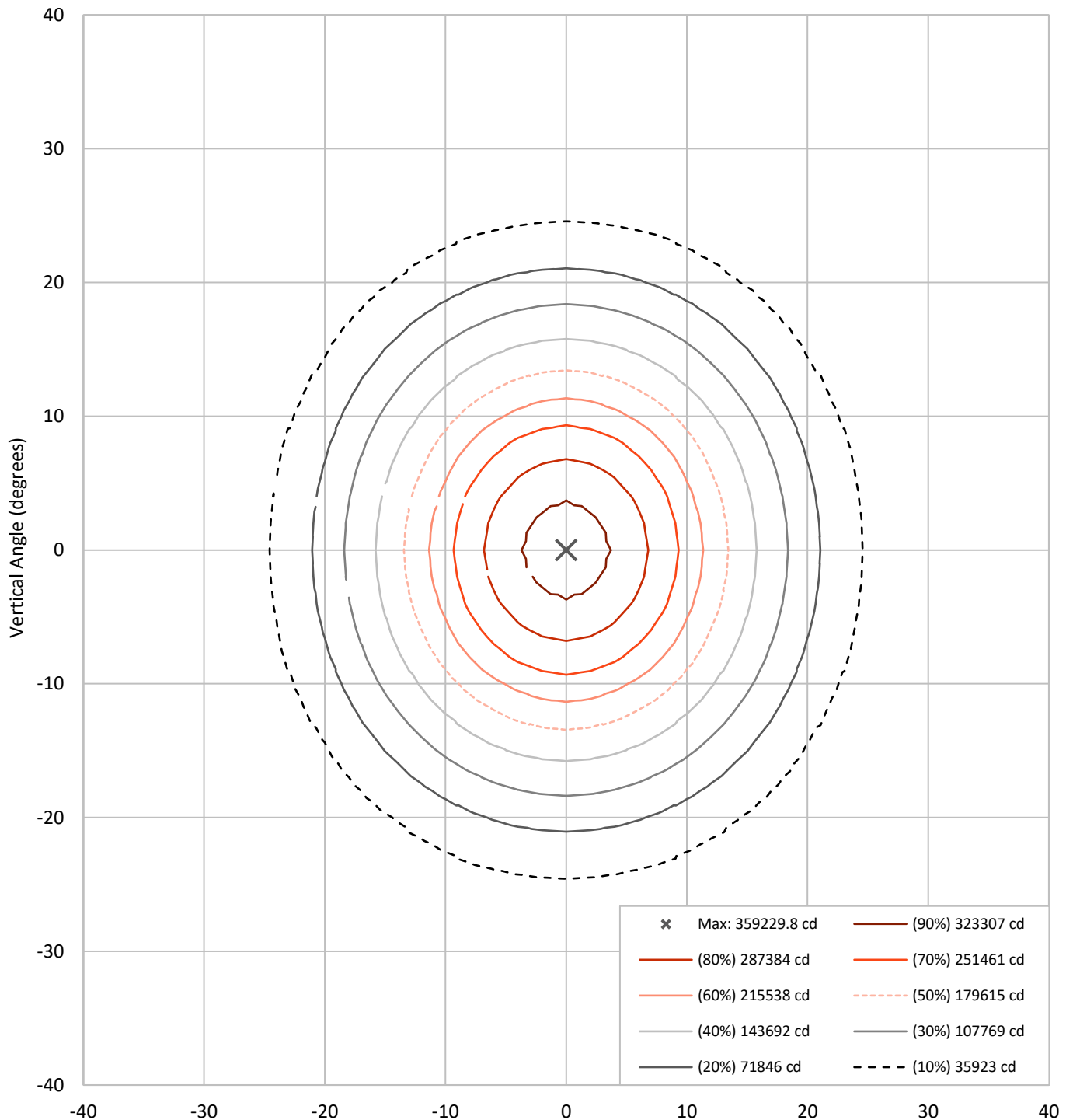
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	97023.1 lumens	Max Intensity:	359229.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	42067.7 lumens	Field Lumens:	80538.8 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

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





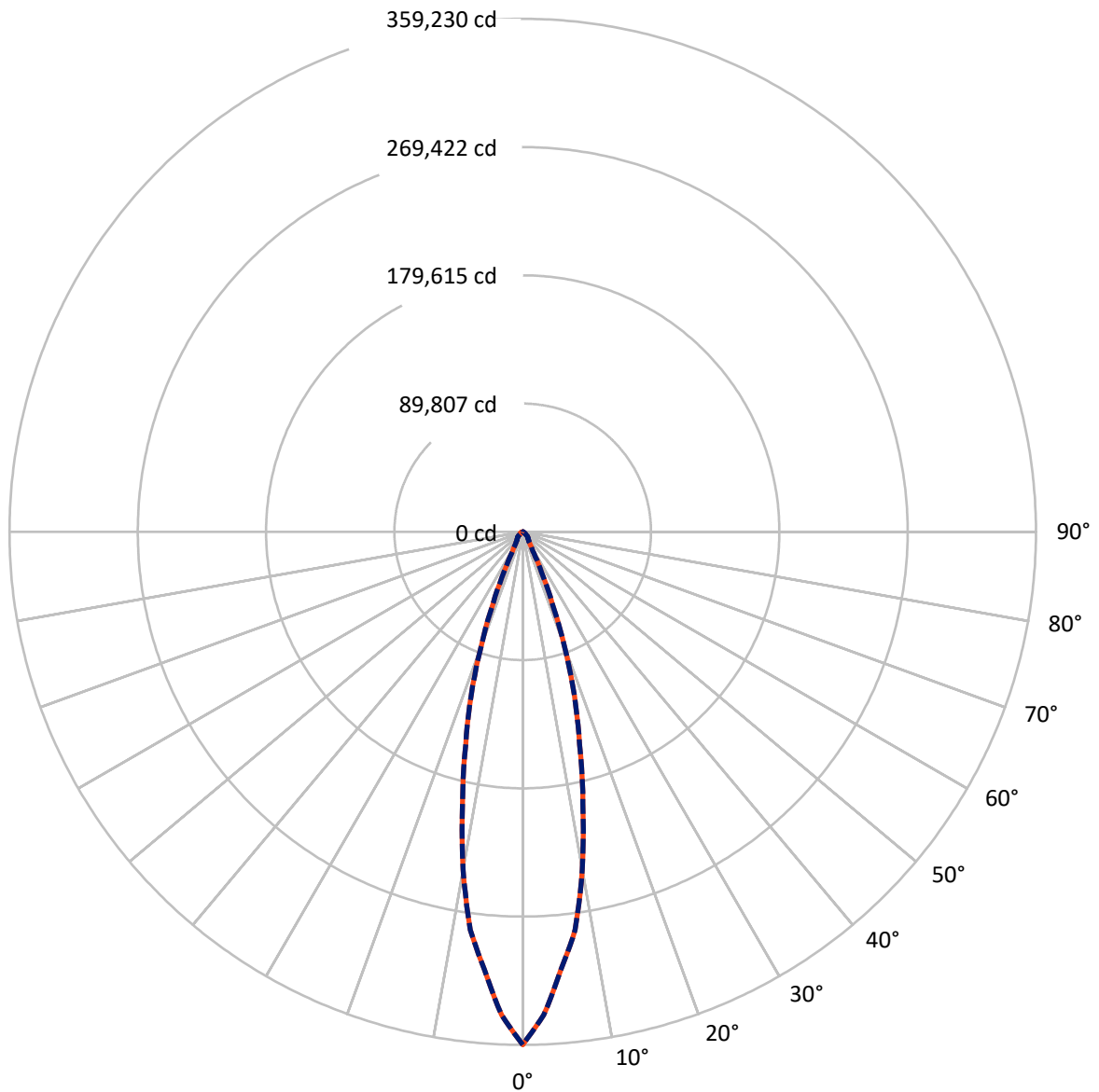
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Lumen Table

90	0.1		0.9		3.4		8.8		11.7		8.8		3.4		0.9		0.1	
80	0.1		0.9		3.4		8.8		11.7		8.8		3.4		0.9		0.1	
70	0.4	0.5	2.1	6.4	12.7	19.2	24.6	27.6	27.6	24.6	19.2	12.7	6.4	2.1	0.5	0.4	0.4	0.4
60		1.6	7.5	17.7	30.3	43.3	53.7	59.3	59.3	53.7	43.3	30.3	17.7	7.5	1.6			
50	1.1	4.0	14.4	30.7	50.8	80.0	114.5	134.4	134.4	114.5	80.0	50.8	30.7	14.4	4.0	1.1	1.1	1.1
40		6.7	21.4	44.0	89.7	147.7	190.0	223.2	223.2	190.0	147.7	89.7	44.0	21.4	6.7			
30	2.6	9.2	27.7	62.9	133.7	211.7	489.5	1006.7	1006.7	489.5	211.7	133.7	62.9	27.7	9.2	2.6	2.6	2.6
20		11.1	32.2	84.8	161.7	462.0	2141.3	4288.1	4288.1	2141.3	462.0	161.7	84.8	32.2	11.1			
10	3.3	12.1	34.5	96.3	184.5	926.7	4170.7	8225.5	8225.5	4170.7	926.7	184.5	96.3	34.5	12.1	3.3	3.3	3.3
0		12.1	34.5	96.3	184.5	926.7	4170.7	8225.5	8225.5	4170.7	926.7	184.5	96.3	34.5	12.1			
-10	2.6	11.1	32.2	84.8	161.7	462.0	2141.3	4288.1	4288.1	2141.3	462.0	161.7	84.8	32.2	11.1	2.6	2.6	2.6
-20		9.2	27.7	62.9	133.7	211.7	489.5	1006.7	1006.7	489.5	211.7	133.7	62.9	27.7	9.2			
-30	1.1	6.7	21.4	44.0	89.7	147.7	190.0	223.2	223.2	190.0	147.7	89.7	44.0	21.4	6.7	1.1	1.1	1.1
-40		4.0	14.4	30.7	50.8	80.0	114.5	134.4	134.4	114.5	80.0	50.8	30.7	14.4	4.0			
-50	0.4	1.6	7.5	17.7	30.3	43.3	53.7	59.3	59.3	53.7	43.3	30.3	17.7	7.5	1.6	0.4	0.4	0.4
-60		0.5	2.1	6.4	12.7	19.2	24.6	27.6	27.6	24.6	19.2	12.7	6.4	2.1	0.5			
-70	0.1	0.9		3.4		8.8		11.7		8.8		3.4		0.9		0.1	0.1	0.1
-80		0.9		3.4		8.8		11.7		8.8		3.4		0.9				
-90	0.1		0.9		3.4		8.8		11.7		8.8		3.4		0.9		0.1	

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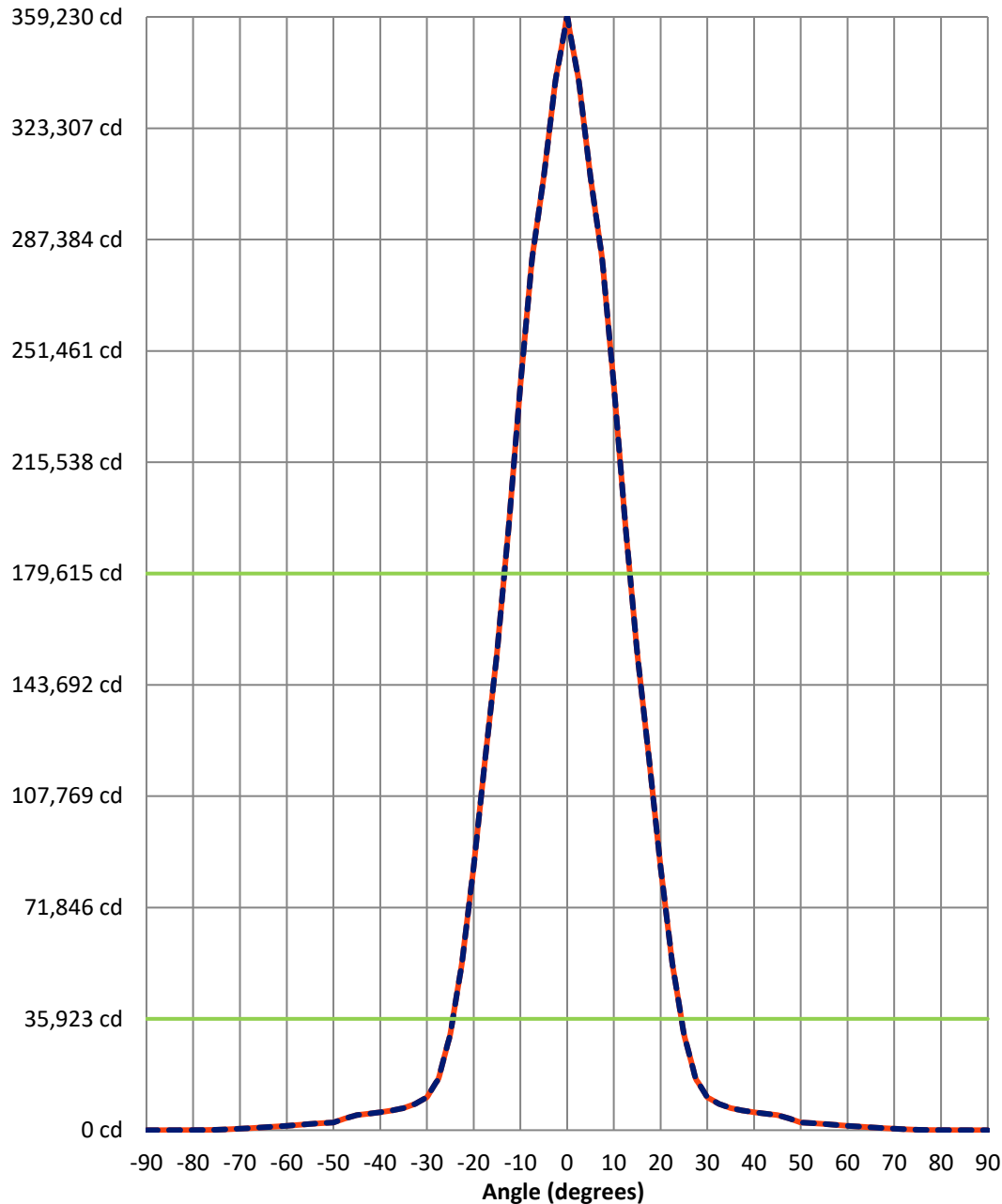
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 42067.7
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 80538.8
 Efficiency: 83.0%

Spill:
 Lumens: 16484.4
 Efficiency: 17.0%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.8	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	12.2
75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	13.6	15.6
72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.0	14.4	16.7	18.9
70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.4	17.0	19.7	23.3
67.5°	0.0	2.5	5.0	7.2	9.1	10.9	13.6	16.7	19.7	23.8	27.8
65°	0.0	2.7	5.5	7.8	9.8	12.2	15.6	18.9	23.3	27.8	33.6
62.5°	0.0	3.0	6.0	8.4	10.6	13.8	17.5	21.8	26.8	32.6	42.5
60°	0.0	3.2	6.5	8.9	11.4	15.4	19.4	24.8	30.3	40.4	51.1
57.5°	0.0	3.5	6.9	9.5	12.6	16.9	21.9	27.8	36.4	48.1	73.5
55°	0.0	3.7	7.2	10.0	13.7	18.4	24.3	30.7	43.0	59.5	101.8
52.5°	0.0	4.0	7.6	10.5	14.9	19.9	26.7	36.0	49.5	84.3	129.3
50°	0.0	4.2	7.9	11.0	16.0	21.9	29.1	41.5	60.2	108.4	179.5
47.5°	0.0	4.4	8.2	11.6	17.1	23.7	31.6	46.8	80.8	131.7	230.8
45°	0.0	4.6	8.5	12.4	18.1	25.5	36.0	51.9	100.7	175.6	280.3
42.5°	0.0	4.8	8.8	13.1	19.1	27.3	40.2	63.6	119.8	218.3	338.6
40°	0.0	5.0	9.1	13.8	20.3	28.9	44.2	79.5	143.9	259.2	396.2
37.5°	0.0	5.2	9.4	14.5	21.5	30.5	47.9	94.7	178.4	300.9	451.1
35°	0.0	5.3	9.6	15.1	22.7	32.9	51.5	109.0	211.0	347.5	502.6
32.5°	0.0	5.5	9.9	15.7	23.8	35.7	57.3	122.5	241.7	391.5	550.6
30°	0.0	5.6	10.1	16.3	24.8	38.4	68.1	138.1	270.5	432.6	595.5
27.5°	0.0	5.8	10.3	16.8	25.8	40.8	78.1	161.3	299.9	470.9	637.3
25°	0.0	5.9	10.5	17.3	26.7	43.0	87.3	182.8	331.0	505.6	676.3
22.5°	0.0	6.0	10.7	17.7	27.5	45.1	95.7	202.3	359.4	537.1	720.9
20°	0.0	6.1	10.8	18.1	28.2	46.9	103.3	219.9	385.0	565.4	761.2
17.5°	0.0	6.2	10.9	18.5	28.9	48.5	110.0	235.5	407.8	590.7	797.0
15°	0.0	6.3	11.1	18.8	29.4	49.9	115.8	249.2	427.6	612.7	828.2
12.5°	0.0	6.3	11.2	19.0	29.9	51.1	120.8	260.8	444.5	631.4	854.9
10°	0.0	6.4	11.3	19.2	30.3	52.1	124.9	270.3	458.4	646.8	876.7
7.5°	0.0	6.4	11.3	19.4	30.6	52.9	128.1	277.7	469.2	658.8	893.8
5°	0.0	6.5	11.4	19.5	30.8	53.5	130.4	283.0	477.0	667.4	906.1
2.5°	0.0	6.5	11.4	19.6	31.0	53.8	131.7	286.2	481.6	672.6	913.4
0°	0.0	6.5	11.4	19.6	31.0	53.8	131.7	286.2	481.6	672.6	913.4
-2.5°	0.0	6.5	11.4	19.6	31.0	53.8	131.7	286.2	481.6	672.6	913.4
-5°	0.0	6.5	11.4	19.5	30.8	53.5	130.4	283.0	477.0	667.4	906.1
-7.5°	0.0	6.4	11.3	19.4	30.6	52.9	128.1	277.7	469.2	658.8	893.8
-10°	0.0	6.4	11.3	19.2	30.3	52.1	124.9	270.3	458.4	646.8	876.7
-12.5°	0.0	6.3	11.2	19.0	29.9	51.1	120.8	260.8	444.5	631.4	854.9
-15°	0.0	6.3	11.1	18.8	29.4	49.9	115.8	249.2	427.6	612.7	828.2
-17.5°	0.0	6.2	10.9	18.5	28.9	48.5	110.0	235.5	407.8	590.7	797.0
-20°	0.0	6.1	10.8	18.1	28.2	46.9	103.3	219.9	385.0	565.4	761.2



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

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	17.7	27.5	45.1	95.7	202.3	359.4	537.1	720.9
-25°	0.0	5.9	10.5	17.3	26.7	43.0	87.3	182.8	331.0	505.6	676.3
-27.5°	0.0	5.8	10.3	16.8	25.8	40.8	78.1	161.3	299.9	470.9	637.3
-30°	0.0	5.6	10.1	16.3	24.8	38.4	68.1	138.1	270.5	432.6	595.5
-32.5°	0.0	5.5	9.9	15.7	23.8	35.7	57.3	122.5	241.7	391.5	550.6
-35°	0.0	5.3	9.6	15.1	22.7	32.9	51.5	109.0	211.0	347.5	502.6
-37.5°	0.0	5.2	9.4	14.5	21.5	30.5	47.9	94.7	178.4	300.9	451.1
-40°	0.0	5.0	9.1	13.8	20.3	28.9	44.2	79.5	143.9	259.2	396.2
-42.5°	0.0	4.8	8.8	13.1	19.1	27.3	40.2	63.6	119.8	218.3	338.6
-45°	0.0	4.6	8.5	12.4	18.1	25.5	36.0	51.9	100.7	175.6	280.3
-47.5°	0.0	4.4	8.2	11.6	17.1	23.7	31.6	46.8	80.8	131.7	230.8
-50°	0.0	4.2	7.9	11.0	16.0	21.9	29.1	41.5	60.2	108.4	179.5
-52.5°	0.0	4.0	7.6	10.5	14.9	19.9	26.7	36.0	49.5	84.3	129.3
-55°	0.0	3.7	7.2	10.0	13.7	18.4	24.3	30.7	43.0	59.5	101.8
-57.5°	0.0	3.5	6.9	9.5	12.6	16.9	21.9	27.8	36.4	48.1	73.5
-60°	0.0	3.2	6.5	8.9	11.4	15.4	19.4	24.8	30.3	40.4	51.1
-62.5°	0.0	3.0	6.0	8.4	10.6	13.8	17.5	21.8	26.8	32.6	42.5
-65°	0.0	2.7	5.5	7.8	9.8	12.2	15.6	18.9	23.3	27.8	33.6
-67.5°	0.0	2.5	5.0	7.2	9.1	10.9	13.6	16.7	19.7	23.8	27.8
-70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.4	17.0	19.7	23.3
-72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.0	14.4	16.7	18.9
-75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	13.6	15.6
-77.5°	0.0	1.4	2.8	4.2	5.6	6.9	7.9	8.9	9.9	10.9	12.2
-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	12.4	13.1	13.8	14.5
80°	10.6	11.4	12.6	13.7	14.9	16.0	17.1	18.1	19.1	20.3	21.5
77.5°	13.8	15.4	16.9	18.4	19.9	21.9	23.7	25.5	27.3	28.9	30.5
75°	17.5	19.4	21.9	24.3	26.7	29.1	31.6	36.0	40.2	44.2	47.9
72.5°	21.8	24.8	27.8	30.7	36.0	41.5	46.8	51.9	63.6	79.5	94.7
70°	26.8	30.3	36.4	43.0	49.5	60.2	80.8	100.7	119.8	143.9	178.4
67.5°	32.6	40.4	48.1	59.5	84.3	108.4	131.7	175.6	218.3	259.2	300.9
65°	42.5	51.1	73.5	101.8	129.3	179.5	230.8	280.3	338.6	396.2	451.1
62.5°	52.2	80.5	112.3	154.4	214.4	272.8	340.3	409.3	475.6	537.9	597.1
60°	80.5	115.8	168.4	235.5	304.6	385.0	463.0	537.1	607.9	676.3	758.4
57.5°	112.3	168.4	242.6	322.5	412.1	498.8	581.4	661.2	755.2	848.7	938.7
55°	154.4	235.5	322.5	421.1	516.6	608.2	703.2	812.3	917.6	1020.9	1119.8
52.5°	214.4	304.6	412.1	516.6	617.1	726.1	846.8	964.9	1080.4	1190.9	1294.8
50°	272.8	385.0	498.8	608.2	726.1	858.4	988.7	1116.5	1238.1	1354.3	1481.0
47.5°	340.3	463.0	581.4	703.2	846.8	988.7	1128.5	1261.9	1390.3	1541.1	1688.9
45°	409.3	537.1	661.2	812.3	964.9	1116.5	1261.9	1402.4	1571.4	1736.4	1901.0
42.5°	475.6	607.9	755.2	917.6	1080.4	1238.1	1390.3	1571.4	1752.5	1933.7	2092.0
40°	537.9	676.3	848.7	1020.9	1190.9	1354.3	1541.1	1736.4	1933.7	2105.9	2260.1
37.5°	597.1	758.4	938.7	1119.8	1294.8	1481.0	1688.9	1901.0	2092.0	2260.1	2396.5
35°	653.3	836.5	1025.6	1212.7	1393.9	1613.0	1836.2	2050.6	2231.9	2384.6	2760.3
32.5°	714.8	910.3	1107.8	1299.7	1508.4	1740.2	1976.9	2175.9	2348.8	2610.5	3528.1
30°	777.8	980.9	1184.5	1381.7	1618.3	1864.0	2093.1	2290.0	2454.1	3299.0	4178.6
27.5°	836.5	1046.8	1254.8	1471.5	1722.1	1980.1	2197.2	2382.7	2922.4	3922.0	4751.6
25°	890.7	1107.8	1319.9	1559.4	1821.8	2074.8	2289.5	2469.2	3491.5	4425.1	5042.4
22.5°	940.7	1163.6	1379.6	1640.1	1913.3	2157.4	2363.6	2895.0	3978.2	4879.0	5248.0
20°	986.4	1212.7	1441.0	1713.7	1996.4	2232.5	2430.9	3341.1	4375.0	5054.4	5444.7
17.5°	1027.1	1256.5	1500.6	1781.8	2060.5	2294.2	2541.7	3741.7	4732.1	5212.6	5626.3
15°	1062.6	1294.8	1552.7	1841.5	2114.6	2343.0	2866.8	4041.0	4942.7	5355.1	5788.4
12.5°	1092.9	1327.4	1597.2	1892.4	2160.9	2384.8	3145.4	4290.5	5053.7	5483.2	5958.8
10°	1117.8	1354.3	1633.8	1934.4	2199.1	2419.4	3375.8	4497.1	5145.8	5589.6	6100.8
7.5°	1137.3	1375.3	1662.5	1967.2	2229.0	2446.4	3556.5	4659.3	5218.3	5673.5	6212.8
5°	1151.2	1390.3	1683.0	1990.8	2250.5	2465.9	3686.4	4776.1	5270.5	5734.0	6293.7
2.5°	1159.6	1399.4	1695.4	2005.0	2263.4	2477.6	3764.7	4846.5	5302.0	5770.5	6342.6
0°	1162.4	1402.4	1699.5	2009.7	2267.7	2481.5	3790.9	4870.0	5312.5	5782.7	6359.0
-2.5°	1159.6	1399.4	1695.4	2005.0	2263.4	2477.6	3764.7	4846.5	5302.0	5770.5	6342.6
-5°	1151.2	1390.3	1683.0	1990.8	2250.5	2465.9	3686.4	4776.1	5270.5	5734.0	6293.7
-7.5°	1137.3	1375.3	1662.5	1967.2	2229.0	2446.4	3556.5	4659.3	5218.3	5673.5	6212.8
-10°	1117.8	1354.3	1633.8	1934.4	2199.1	2419.4	3375.8	4497.1	5145.8	5589.6	6100.8
-12.5°	1092.9	1327.4	1597.2	1892.4	2160.9	2384.8	3145.4	4290.5	5053.7	5483.2	5958.8
-15°	1062.6	1294.8	1552.7	1841.5	2114.6	2343.0	2866.8	4041.0	4942.7	5355.1	5788.4
-17.5°	1027.1	1256.5	1500.6	1781.8	2060.5	2294.2	2541.7	3741.7	4732.1	5212.6	5626.3
-20°	986.4	1212.7	1441.0	1713.7	1996.4	2232.5	2430.9	3341.1	4375.0	5054.4	5444.7



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	940.7	1163.6	1379.6	1640.1	1913.3	2157.4	2363.6	2895.0	3978.2	4879.0	5248.0
-25°	890.7	1107.8	1319.9	1559.4	1821.8	2074.8	2289.5	2469.2	3491.5	4425.1	5042.4
-27.5°	836.5	1046.8	1254.8	1471.5	1722.1	1980.1	2197.2	2382.7	2922.4	3922.0	4751.6
-30°	777.8	980.9	1184.5	1381.7	1618.3	1864.0	2093.1	2290.0	2454.1	3299.0	4178.6
-32.5°	714.8	910.3	1107.8	1299.7	1508.4	1740.2	1976.9	2175.9	2348.8	2610.5	3528.1
-35°	653.3	836.5	1025.6	1212.7	1393.9	1613.0	1836.2	2050.6	2231.9	2384.6	2760.3
-37.5°	597.1	758.4	938.7	1119.8	1294.8	1481.0	1688.9	1901.0	2092.0	2260.1	2396.5
-40°	537.9	676.3	848.7	1020.9	1190.9	1354.3	1541.1	1736.4	1933.7	2105.9	2260.1
-42.5°	475.6	607.9	755.2	917.6	1080.4	1238.1	1390.3	1571.4	1752.5	1933.7	2092.0
-45°	409.3	537.1	661.2	812.3	964.9	1116.5	1261.9	1402.4	1571.4	1736.4	1901.0
-47.5°	340.3	463.0	581.4	703.2	846.8	988.7	1128.5	1261.9	1390.3	1541.1	1688.9
-50°	272.8	385.0	498.8	608.2	726.1	858.4	988.7	1116.5	1238.1	1354.3	1481.0
-52.5°	214.4	304.6	412.1	516.6	617.1	726.1	846.8	964.9	1080.4	1190.9	1294.8
-55°	154.4	235.5	322.5	421.1	516.6	608.2	703.2	812.3	917.6	1020.9	1119.8
-57.5°	112.3	168.4	242.6	322.5	412.1	498.8	581.4	661.2	755.2	848.7	938.7
-60°	80.5	115.8	168.4	235.5	304.6	385.0	463.0	537.1	607.9	676.3	758.4
-62.5°	52.2	80.5	112.3	154.4	214.4	272.8	340.3	409.3	475.6	537.9	597.1
-65°	42.5	51.1	73.5	101.8	129.3	179.5	230.8	280.3	338.6	396.2	451.1
-67.5°	32.6	40.4	48.1	59.5	84.3	108.4	131.7	175.6	218.3	259.2	300.9
-70°	26.8	30.3	36.4	43.0	49.5	60.2	80.8	100.7	119.8	143.9	178.4
-72.5°	21.8	24.8	27.8	30.7	36.0	41.5	46.8	51.9	63.6	79.5	94.7
-75°	17.5	19.4	21.9	24.3	26.7	29.1	31.6	36.0	40.2	44.2	47.9
-77.5°	13.8	15.4	16.9	18.4	19.9	21.9	23.7	25.5	27.3	28.9	30.5
-80°	10.6	11.4	12.6	13.7	14.9	16.0	17.1	18.1	19.1	20.3	21.5
-82.5°	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.4	13.1	13.8	14.5
-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



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-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°	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.0	19.2
80°	22.7	23.8	24.8	25.8	26.7	27.5	28.2	28.9	29.4	29.9	30.3
77.5°	32.9	35.7	38.4	40.8	43.0	45.1	46.9	48.5	49.9	51.1	52.1
75°	51.5	57.3	68.1	78.1	87.3	95.7	103.3	110.0	115.8	120.8	124.9
72.5°	109.0	122.5	138.1	161.3	182.8	202.3	219.9	235.5	249.2	260.8	270.3
70°	211.0	241.7	270.5	299.9	331.0	359.4	385.0	407.8	427.6	444.5	458.4
67.5°	347.5	391.5	432.6	470.9	505.6	537.1	565.4	590.7	612.7	631.4	646.8
65°	502.6	550.6	595.5	637.3	676.3	720.9	761.2	797.0	828.2	854.9	876.7
62.5°	653.3	714.8	777.8	836.5	890.7	940.7	986.4	1027.1	1062.6	1092.9	1117.8
60°	836.5	910.3	980.9	1046.8	1107.8	1163.6	1212.7	1256.5	1294.8	1327.4	1354.3
57.5°	1025.6	1107.8	1184.5	1254.8	1319.9	1379.6	1441.0	1500.6	1552.7	1597.2	1633.8
55°	1212.7	1299.7	1381.7	1471.5	1559.4	1640.1	1713.7	1781.8	1841.5	1892.4	1934.4
52.5°	1393.9	1508.4	1618.3	1722.1	1821.8	1913.3	1996.4	2060.5	2114.6	2160.9	2199.1
50°	1613.0	1740.2	1864.0	1980.1	2074.8	2157.4	2232.5	2294.2	2343.0	2384.8	2419.4
47.5°	1836.2	1976.9	2093.1	2197.2	2289.5	2363.6	2430.9	2541.7	2866.8	3145.4	3375.8
45°	2050.6	2175.9	2290.0	2382.7	2469.2	2895.0	3341.1	3741.7	4041.0	4290.5	4497.1
42.5°	2231.9	2348.8	2454.1	2922.4	3491.5	3978.2	4375.0	4732.1	4942.7	5053.7	5145.8
40°	2384.6	2610.5	3299.0	3922.0	4425.1	4879.0	5054.4	5212.6	5355.1	5483.2	5589.6
37.5°	2760.3	3528.1	4178.6	4751.6	5042.4	5248.0	5444.7	5626.3	5788.4	5958.8	6100.8
35°	3605.0	4308.3	4903.0	5153.5	5394.6	5629.0	5859.1	6099.5	6313.3	6544.2	6749.6
32.5°	4308.3	4930.5	5209.8	5486.6	5754.7	6056.2	6341.1	6680.0	6987.7	7357.5	7756.9
30°	4903.0	5209.8	5517.6	5826.5	6176.9	6555.0	6961.9	7498.2	8093.2	8681.6	9363.7
27.5°	5153.5	5486.6	5826.5	6217.5	6666.7	7143.1	7922.7	8723.7	9732.7	10617.8	12745.9
25°	5394.6	5754.7	6176.9	6666.7	7247.2	8139.1	9250.0	10459.5	13290.0	16053.4	20669.8
22.5°	5629.0	6056.2	6555.0	7143.1	8139.1	9427.9	11220.5	14951.9	20568.5	27659.6	35412.1
20°	5859.1	6341.1	6961.9	7922.7	9250.0	11220.5	15515.5	23345.0	32676.1	45215.8	56791.4
17.5°	6099.5	6680.0	7498.2	8723.7	10459.5	14951.9	23345.0	35072.9	50298.5	67666.5	83952.8
15°	6313.3	6987.7	8093.2	9732.7	13290.0	20568.5	32676.1	50298.5	71396.7	92927.8	113701.0
12.5°	6544.2	7357.5	8681.6	10617.8	16053.4	27659.6	45215.8	67666.5	92927.8	118746.4	141100.3
10°	6749.6	7756.9	9363.7	12745.9	20669.8	35412.1	56791.4	83952.8	113701.0	141100.3	167767.3
7.5°	6912.1	8073.8	9906.6	14452.6	25088.0	43316.6	68726.7	99150.7	130639.3	161005.6	195102.5
5°	7029.6	8303.5	10301.4	15698.1	28326.4	49144.0	77593.9	110663.0	143326.2	178724.7	217725.8
2.5°	7100.8	8442.8	10541.3	16456.5	30304.7	52719.1	83065.5	117825.1	151314.2	190615.4	234330.6
0°	7124.6	8489.5	10621.7	16711.2	30970.3	53924.6	84916.2	120258.6	154046.8	194716.4	240306.6
-2.5°	7100.8	8442.8	10541.3	16456.5	30304.7	52719.1	83065.5	117825.1	151314.2	190615.4	234330.6
-5°	7029.6	8303.5	10301.4	15698.1	28326.4	49144.0	77593.9	110663.0	143326.2	178724.7	217725.8
-7.5°	6912.1	8073.8	9906.6	14452.6	25088.0	43316.6	68726.7	99150.7	130639.3	161005.6	195102.5
-10°	6749.6	7756.9	9363.7	12745.9	20669.8	35412.1	56791.4	83952.8	113701.0	141100.3	167767.3
-12.5°	6544.2	7357.5	8681.6	10617.8	16053.4	27659.6	45215.8	67666.5	92927.8	118746.4	141100.3
-15°	6313.3	6987.7	8093.2	9732.7	13290.0	20568.5	32676.1	50298.5	71396.7	92927.8	113701.0
-17.5°	6099.5	6680.0	7498.2	8723.7	10459.5	14951.9	23345.0	35072.9	50298.5	67666.5	83952.8
-20°	5859.1	6341.1	6961.9	7922.7	9250.0	11220.5	15515.5	23345.0	32676.1	45215.8	56791.4



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5629.0	6056.2	6555.0	7143.1	8139.1	9427.9	11220.5	14951.9	20568.5	27659.6	35412.1
-25°	5394.6	5754.7	6176.9	6666.7	7247.2	8139.1	9250.0	10459.5	13290.0	16053.4	20669.8
-27.5°	5153.5	5486.6	5826.5	6217.5	6666.7	7143.1	7922.7	8723.7	9732.7	10617.8	12745.9
-30°	4903.0	5209.8	5517.6	5826.5	6176.9	6555.0	6961.9	7498.2	8093.2	8681.6	9363.7
-32.5°	4308.3	4930.5	5209.8	5486.6	5754.7	6056.2	6341.1	6680.0	6987.7	7357.5	7756.9
-35°	3605.0	4308.3	4903.0	5153.5	5394.6	5629.0	5859.1	6099.5	6313.3	6544.2	6749.6
-37.5°	2760.3	3528.1	4178.6	4751.6	5042.4	5248.0	5444.7	5626.3	5788.4	5958.8	6100.8
-40°	2384.6	2610.5	3299.0	3922.0	4425.1	4879.0	5054.4	5212.6	5355.1	5483.2	5589.6
-42.5°	2231.9	2348.8	2454.1	2922.4	3491.5	3978.2	4375.0	4732.1	4942.7	5053.7	5145.8
-45°	2050.6	2175.9	2290.0	2382.7	2469.2	2895.0	3341.1	3741.7	4041.0	4290.5	4497.1
-47.5°	1836.2	1976.9	2093.1	2197.2	2289.5	2363.6	2430.9	2541.7	2866.8	3145.4	3375.8
-50°	1613.0	1740.2	1864.0	1980.1	2074.8	2157.4	2232.5	2294.2	2343.0	2384.8	2419.4
-52.5°	1393.9	1508.4	1618.3	1722.1	1821.8	1913.3	1996.4	2060.5	2114.6	2160.9	2199.1
-55°	1212.7	1299.7	1381.7	1471.5	1559.4	1640.1	1713.7	1781.8	1841.5	1892.4	1934.4
-57.5°	1025.6	1107.8	1184.5	1254.8	1319.9	1379.6	1441.0	1500.6	1552.7	1597.2	1633.8
-60°	836.5	910.3	980.9	1046.8	1107.8	1163.6	1212.7	1256.5	1294.8	1327.4	1354.3
-62.5°	653.3	714.8	777.8	836.5	890.7	940.7	986.4	1027.1	1062.6	1092.9	1117.8
-65°	502.6	550.6	595.5	637.3	676.3	720.9	761.2	797.0	828.2	854.9	876.7
-67.5°	347.5	391.5	432.6	470.9	505.6	537.1	565.4	590.7	612.7	631.4	646.8
-70°	211.0	241.7	270.5	299.9	331.0	359.4	385.0	407.8	427.6	444.5	458.4
-72.5°	109.0	122.5	138.1	161.3	182.8	202.3	219.9	235.5	249.2	260.8	270.3
-75°	51.5	57.3	68.1	78.1	87.3	95.7	103.3	110.0	115.8	120.8	124.9
-77.5°	32.9	35.7	38.4	40.8	43.0	45.1	46.9	48.5	49.9	51.1	52.1
-80°	22.7	23.8	24.8	25.8	26.7	27.5	28.2	28.9	29.4	29.9	30.3
-82.5°	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.0	19.2
-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: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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°	19.4	19.5	19.6	19.6	19.6	19.5	19.4	19.2	19.0	18.8	18.5
80°	30.6	30.8	31.0	31.0	31.0	30.8	30.6	30.3	29.9	29.4	28.9
77.5°	52.9	53.5	53.8	53.9	53.8	53.5	52.9	52.1	51.1	49.9	48.5
75°	128.1	130.4	131.7	132.2	131.7	130.4	128.1	124.9	120.8	115.8	110.0
72.5°	277.7	283.0	286.2	287.3	286.2	283.0	277.7	270.3	260.8	249.2	235.5
70°	469.2	477.0	481.6	483.2	481.6	477.0	469.2	458.4	444.5	427.6	407.8
67.5°	658.8	667.4	672.6	674.3	672.6	667.4	658.8	646.8	631.4	612.7	590.7
65°	893.8	906.1	913.4	915.9	913.4	906.1	893.8	876.7	854.9	828.2	797.0
62.5°	1137.3	1151.2	1159.6	1162.4	1159.6	1151.2	1137.3	1117.8	1092.9	1062.6	1027.1
60°	1375.3	1390.3	1399.4	1402.4	1399.4	1390.3	1375.3	1354.3	1327.4	1294.8	1256.5
57.5°	1662.5	1683.0	1695.4	1699.5	1695.4	1683.0	1662.5	1633.8	1597.2	1552.7	1500.6
55°	1967.2	1990.8	2005.0	2009.7	2005.0	1990.8	1967.2	1934.4	1892.4	1841.5	1781.8
52.5°	2229.0	2250.5	2263.4	2267.7	2263.4	2250.5	2229.0	2199.1	2160.9	2114.6	2060.5
50°	2446.4	2465.9	2477.6	2481.5	2477.6	2465.9	2446.4	2419.4	2384.8	2343.0	2294.2
47.5°	3556.5	3686.4	3764.7	3790.9	3764.7	3686.4	3556.5	3375.8	3145.4	2866.8	2541.7
45°	4659.3	4776.1	4846.5	4870.0	4846.5	4776.1	4659.3	4497.1	4290.5	4041.0	3741.7
42.5°	5218.3	5270.5	5302.0	5312.5	5302.0	5270.5	5218.3	5145.8	5053.7	4942.7	4732.1
40°	5673.5	5734.0	5770.5	5782.7	5770.5	5734.0	5673.5	5589.6	5483.2	5355.1	5212.6
37.5°	6212.8	6293.7	6342.6	6359.0	6342.6	6293.7	6212.8	6100.8	5958.8	5788.4	5626.3
35°	6912.1	7029.6	7100.8	7124.6	7100.8	7029.6	6912.1	6749.6	6544.2	6313.3	6099.5
32.5°	8073.8	8303.5	8442.8	8489.5	8442.8	8303.5	8073.8	7756.9	7357.5	6987.7	6680.0
30°	9906.6	10301.4	10541.3	10621.7	10541.3	10301.4	9906.6	9363.7	8681.6	8093.2	7498.2
27.5°	14452.6	15698.1	16456.5	16711.2	16456.5	15698.1	14452.6	12745.9	10617.8	9732.7	8723.7
25°	25088.0	28326.4	30304.7	30970.3	30304.7	28326.4	25088.0	20669.8	16053.4	13290.0	10459.5
22.5°	43316.6	49144.0	52719.1	53924.6	52719.1	49144.0	43316.6	35412.1	27659.6	20568.5	14951.9
20°	68726.7	77593.9	83065.5	84916.2	83065.5	77593.9	68726.7	56791.4	45215.8	32676.1	23345.0
17.5°	99150.7	110663.0	117825.1	120258.6	117825.1	110663.0	99150.7	83952.8	67666.5	50298.5	35072.9
15°	130639.3	143326.2	151314.2	154046.8	151314.2	143326.2	130639.3	113701.0	92927.8	71396.7	50298.5
12.5°	161005.6	178724.7	190615.4	194716.4	190615.4	178724.7	161005.6	141100.3	118746.4	92927.8	67666.5
10°	195102.5	217725.8	234330.6	240306.6	234330.6	217725.8	195102.5	167767.3	141100.3	113701.0	83952.8
7.5°	228706.7	259247.5	276141.0	281156.6	276141.0	259247.5	228706.7	195102.5	161005.6	130639.3	99150.7
5°	259247.5	286545.0	302170.4	307576.1	302170.4	286545.0	259247.5	217725.8	178724.7	143326.2	110663.0
2.5°	276141.0	302170.4	323859.8	338577.5	323859.8	302170.4	276141.0	234330.6	190615.4	151314.2	117825.1
0°	281156.6	307576.1	338577.5	359229.8	338577.5	307576.1	281156.6	240306.6	194716.4	154046.8	120258.6
-2.5°	276141.0	302170.4	323859.8	338577.5	323859.8	302170.4	276141.0	234330.6	190615.4	151314.2	117825.1
-5°	259247.5	286545.0	302170.4	307576.1	302170.4	286545.0	259247.5	217725.8	178724.7	143326.2	110663.0
-7.5°	228706.7	259247.5	276141.0	281156.6	276141.0	259247.5	228706.7	195102.5	161005.6	130639.3	99150.7
-10°	195102.5	217725.8	234330.6	240306.6	234330.6	217725.8	195102.5	167767.3	141100.3	113701.0	83952.8
-12.5°	161005.6	178724.7	190615.4	194716.4	190615.4	178724.7	161005.6	141100.3	118746.4	92927.8	67666.5
-15°	130639.3	143326.2	151314.2	154046.8	151314.2	143326.2	130639.3	113701.0	92927.8	71396.7	50298.5
-17.5°	99150.7	110663.0	117825.1	120258.6	117825.1	110663.0	99150.7	83952.8	67666.5	50298.5	35072.9
-20°	68726.7	77593.9	83065.5	84916.2	83065.5	77593.9	68726.7	56791.4	45215.8	32676.1	23345.0



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	43316.6	49144.0	52719.1	53924.6	52719.1	49144.0	43316.6	35412.1	27659.6	20568.5	14951.9
-25°	25088.0	28326.4	30304.7	30970.3	30304.7	28326.4	25088.0	20669.8	16053.4	13290.0	10459.5
-27.5°	14452.6	15698.1	16456.5	16711.2	16456.5	15698.1	14452.6	12745.9	10617.8	9732.7	8723.7
-30°	9906.6	10301.4	10541.3	10621.7	10541.3	10301.4	9906.6	9363.7	8681.6	8093.2	7498.2
-32.5°	8073.8	8303.5	8442.8	8489.5	8442.8	8303.5	8073.8	7756.9	7357.5	6987.7	6680.0
-35°	6912.1	7029.6	7100.8	7124.6	7100.8	7029.6	6912.1	6749.6	6544.2	6313.3	6099.5
-37.5°	6212.8	6293.7	6342.6	6359.0	6342.6	6293.7	6212.8	6100.8	5958.8	5788.4	5626.3
-40°	5673.5	5734.0	5770.5	5782.7	5770.5	5734.0	5673.5	5589.6	5483.2	5355.1	5212.6
-42.5°	5218.3	5270.5	5302.0	5312.5	5302.0	5270.5	5218.3	5145.8	5053.7	4942.7	4732.1
-45°	4659.3	4776.1	4846.5	4870.0	4846.5	4776.1	4659.3	4497.1	4290.5	4041.0	3741.7
-47.5°	3556.5	3686.4	3764.7	3790.9	3764.7	3686.4	3556.5	3375.8	3145.4	2866.8	2541.7
-50°	2446.4	2465.9	2477.6	2481.5	2477.6	2465.9	2446.4	2419.4	2384.8	2343.0	2294.2
-52.5°	2229.0	2250.5	2263.4	2267.7	2263.4	2250.5	2229.0	2199.1	2160.9	2114.6	2060.5
-55°	1967.2	1990.8	2005.0	2009.7	2005.0	1990.8	1967.2	1934.4	1892.4	1841.5	1781.8
-57.5°	1662.5	1683.0	1695.4	1699.5	1695.4	1683.0	1662.5	1633.8	1597.2	1552.7	1500.6
-60°	1375.3	1390.3	1399.4	1402.4	1399.4	1390.3	1375.3	1354.3	1327.4	1294.8	1256.5
-62.5°	1137.3	1151.2	1159.6	1162.4	1159.6	1151.2	1137.3	1117.8	1092.9	1062.6	1027.1
-65°	893.8	906.1	913.4	915.9	913.4	906.1	893.8	876.7	854.9	828.2	797.0
-67.5°	658.8	667.4	672.6	674.3	672.6	667.4	658.8	646.8	631.4	612.7	590.7
-70°	469.2	477.0	481.6	483.2	481.6	477.0	469.2	458.4	444.5	427.6	407.8
-72.5°	277.7	283.0	286.2	287.3	286.2	283.0	277.7	270.3	260.8	249.2	235.5
-75°	128.1	130.4	131.7	132.2	131.7	130.4	128.1	124.9	120.8	115.8	110.0
-77.5°	52.9	53.5	53.8	53.9	53.8	53.5	52.9	52.1	51.1	49.9	48.5
-80°	30.6	30.8	31.0	31.0	31.0	30.8	30.6	30.3	29.9	29.4	28.9
-82.5°	19.4	19.5	19.6	19.6	19.6	19.5	19.4	19.2	19.0	18.8	18.5
-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



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

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°	18.1	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1	12.4
80°	28.2	27.5	26.7	25.8	24.8	23.8	22.7	21.5	20.3	19.1	18.1
77.5°	46.9	45.1	43.0	40.8	38.4	35.7	32.9	30.5	28.9	27.3	25.5
75°	103.3	95.7	87.3	78.1	68.1	57.3	51.5	47.9	44.2	40.2	36.0
72.5°	219.9	202.3	182.8	161.3	138.1	122.5	109.0	94.7	79.5	63.6	51.9
70°	385.0	359.4	331.0	299.9	270.5	241.7	211.0	178.4	143.9	119.8	100.7
67.5°	565.4	537.1	505.6	470.9	432.6	391.5	347.5	300.9	259.2	218.3	175.6
65°	761.2	720.9	676.3	637.3	595.5	550.6	502.6	451.1	396.2	338.6	280.3
62.5°	986.4	940.7	890.7	836.5	777.8	714.8	653.3	597.1	537.9	475.6	409.3
60°	1212.7	1163.6	1107.8	1046.8	980.9	910.3	836.5	758.4	676.3	607.9	537.1
57.5°	1441.0	1379.6	1319.9	1254.8	1184.5	1107.8	1025.6	938.7	848.7	755.2	661.2
55°	1713.7	1640.1	1559.4	1471.5	1381.7	1299.7	1212.7	1119.8	1020.9	917.6	812.3
52.5°	1996.4	1913.3	1821.8	1722.1	1618.3	1508.4	1393.9	1294.8	1190.9	1080.4	964.9
50°	2232.5	2157.4	2074.8	1980.1	1864.0	1740.2	1613.0	1481.0	1354.3	1238.1	1116.5
47.5°	2430.9	2363.6	2289.5	2197.2	2093.1	1976.9	1836.2	1688.9	1541.1	1390.3	1261.9
45°	3341.1	2895.0	2469.2	2382.7	2290.0	2175.9	2050.6	1901.0	1736.4	1571.4	1402.4
42.5°	4375.0	3978.2	3491.5	2922.4	2454.1	2348.8	2231.9	2092.0	1933.7	1752.5	1571.4
40°	5054.4	4879.0	4425.1	3922.0	3299.0	2610.5	2384.6	2260.1	2105.9	1933.7	1736.4
37.5°	5444.7	5248.0	5042.4	4751.6	4178.6	3528.1	2760.3	2396.5	2260.1	2092.0	1901.0
35°	5859.1	5629.0	5394.6	5153.5	4903.0	4308.3	3605.0	2760.3	2384.6	2231.9	2050.6
32.5°	6341.1	6056.2	5754.7	5486.6	5209.8	4930.5	4308.3	3528.1	2610.5	2348.8	2175.9
30°	6961.9	6555.0	6176.9	5826.5	5517.6	5209.8	4903.0	4178.6	3299.0	2454.1	2290.0
27.5°	7922.7	7143.1	6666.7	6217.5	5826.5	5486.6	5153.5	4751.6	3922.0	2922.4	2382.7
25°	9250.0	8139.1	7247.2	6666.7	6176.9	5754.7	5394.6	5042.4	4425.1	3491.5	2469.2
22.5°	11220.5	9427.9	8139.1	7143.1	6555.0	6056.2	5629.0	5248.0	4879.0	3978.2	2895.0
20°	15515.5	11220.5	9250.0	7922.7	6961.9	6341.1	5859.1	5444.7	5054.4	4375.0	3341.1
17.5°	23345.0	14951.9	10459.5	8723.7	7498.2	6680.0	6099.5	5626.3	5212.6	4732.1	3741.7
15°	32676.1	20568.5	13290.0	9732.7	8093.2	6987.7	6313.3	5788.4	5355.1	4942.7	4041.0
12.5°	45215.8	27659.6	16053.4	10617.8	8681.6	7357.5	6544.2	5958.8	5483.2	5053.7	4290.5
10°	56791.4	35412.1	20669.8	12745.9	9363.7	7756.9	6749.6	6100.8	5589.6	5145.8	4497.1
7.5°	68726.7	43316.6	25088.0	14452.6	9906.6	8073.8	6912.1	6212.8	5673.5	5218.3	4659.3
5°	77593.9	49144.0	28326.4	15698.1	10301.4	8303.5	7029.6	6293.7	5734.0	5270.5	4776.1
2.5°	83065.5	52719.1	30304.7	16456.5	10541.3	8442.8	7100.8	6342.6	5770.5	5302.0	4846.5
0°	84916.2	53924.6	30970.3	16711.2	10621.7	8489.5	7124.6	6359.0	5782.7	5312.5	4870.0
-2.5°	83065.5	52719.1	30304.7	16456.5	10541.3	8442.8	7100.8	6342.6	5770.5	5302.0	4846.5
-5°	77593.9	49144.0	28326.4	15698.1	10301.4	8303.5	7029.6	6293.7	5734.0	5270.5	4776.1
-7.5°	68726.7	43316.6	25088.0	14452.6	9906.6	8073.8	6912.1	6212.8	5673.5	5218.3	4659.3
-10°	56791.4	35412.1	20669.8	12745.9	9363.7	7756.9	6749.6	6100.8	5589.6	5145.8	4497.1
-12.5°	45215.8	27659.6	16053.4	10617.8	8681.6	7357.5	6544.2	5958.8	5483.2	5053.7	4290.5
-15°	32676.1	20568.5	13290.0	9732.7	8093.2	6987.7	6313.3	5788.4	5355.1	4942.7	4041.0
-17.5°	23345.0	14951.9	10459.5	8723.7	7498.2	6680.0	6099.5	5626.3	5212.6	4732.1	3741.7
-20°	15515.5	11220.5	9250.0	7922.7	6961.9	6341.1	5859.1	5444.7	5054.4	4375.0	3341.1



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11220.5	9427.9	8139.1	7143.1	6555.0	6056.2	5629.0	5248.0	4879.0	3978.2	2895.0
-25°	9250.0	8139.1	7247.2	6666.7	6176.9	5754.7	5394.6	5042.4	4425.1	3491.5	2469.2
-27.5°	7922.7	7143.1	6666.7	6217.5	5826.5	5486.6	5153.5	4751.6	3922.0	2922.4	2382.7
-30°	6961.9	6555.0	6176.9	5826.5	5517.6	5209.8	4903.0	4178.6	3299.0	2454.1	2290.0
-32.5°	6341.1	6056.2	5754.7	5486.6	5209.8	4930.5	4308.3	3528.1	2610.5	2348.8	2175.9
-35°	5859.1	5629.0	5394.6	5153.5	4903.0	4308.3	3605.0	2760.3	2384.6	2231.9	2050.6
-37.5°	5444.7	5248.0	5042.4	4751.6	4178.6	3528.1	2760.3	2396.5	2260.1	2092.0	1901.0
-40°	5054.4	4879.0	4425.1	3922.0	3299.0	2610.5	2384.6	2260.1	2105.9	1933.7	1736.4
-42.5°	4375.0	3978.2	3491.5	2922.4	2454.1	2348.8	2231.9	2092.0	1933.7	1752.5	1571.4
-45°	3341.1	2895.0	2469.2	2382.7	2290.0	2175.9	2050.6	1901.0	1736.4	1571.4	1402.4
-47.5°	2430.9	2363.6	2289.5	2197.2	2093.1	1976.9	1836.2	1688.9	1541.1	1390.3	1261.9
-50°	2232.5	2157.4	2074.8	1980.1	1864.0	1740.2	1613.0	1481.0	1354.3	1238.1	1116.5
-52.5°	1996.4	1913.3	1821.8	1722.1	1618.3	1508.4	1393.9	1294.8	1190.9	1080.4	964.9
-55°	1713.7	1640.1	1559.4	1471.5	1381.7	1299.7	1212.7	1119.8	1020.9	917.6	812.3
-57.5°	1441.0	1379.6	1319.9	1254.8	1184.5	1107.8	1025.6	938.7	848.7	755.2	661.2
-60°	1212.7	1163.6	1107.8	1046.8	980.9	910.3	836.5	758.4	676.3	607.9	537.1
-62.5°	986.4	940.7	890.7	836.5	777.8	714.8	653.3	597.1	537.9	475.6	409.3
-65°	761.2	720.9	676.3	637.3	595.5	550.6	502.6	451.1	396.2	338.6	280.3
-67.5°	565.4	537.1	505.6	470.9	432.6	391.5	347.5	300.9	259.2	218.3	175.6
-70°	385.0	359.4	331.0	299.9	270.5	241.7	211.0	178.4	143.9	119.8	100.7
-72.5°	219.9	202.3	182.8	161.3	138.1	122.5	109.0	94.7	79.5	63.6	51.9
-75°	103.3	95.7	87.3	78.1	68.1	57.3	51.5	47.9	44.2	40.2	36.0
-77.5°	46.9	45.1	43.0	40.8	38.4	35.7	32.9	30.5	28.9	27.3	25.5
-80°	28.2	27.5	26.7	25.8	24.8	23.8	22.7	21.5	20.3	19.1	18.1
-82.5°	18.1	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1	12.4
-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: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

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°	17.1	16.0	14.9	13.7	12.6	11.4	10.6	9.8	9.1	8.3	7.5
77.5°	23.7	21.9	19.9	18.4	16.9	15.4	13.8	12.2	10.9	9.9	8.9
75°	31.6	29.1	26.7	24.3	21.9	19.4	17.5	15.6	13.6	11.7	10.3
72.5°	46.8	41.5	36.0	30.7	27.8	24.8	21.8	18.9	16.7	14.4	12.0
70°	80.8	60.2	49.5	43.0	36.4	30.3	26.8	23.3	19.7	17.0	14.4
67.5°	131.7	108.4	84.3	59.5	48.1	40.4	32.6	27.8	23.8	19.7	16.7
65°	230.8	179.5	129.3	101.8	73.5	51.1	42.5	33.6	27.8	23.3	18.9
62.5°	340.3	272.8	214.4	154.4	112.3	80.5	52.2	42.5	32.6	26.8	21.8
60°	463.0	385.0	304.6	235.5	168.4	115.8	80.5	51.1	40.4	30.3	24.8
57.5°	581.4	498.8	412.1	322.5	242.6	168.4	112.3	73.5	48.1	36.4	27.8
55°	703.2	608.2	516.6	421.1	322.5	235.5	154.4	101.8	59.5	43.0	30.7
52.5°	846.8	726.1	617.1	516.6	412.1	304.6	214.4	129.3	84.3	49.5	36.0
50°	988.7	858.4	726.1	608.2	498.8	385.0	272.8	179.5	108.4	60.2	41.5
47.5°	1128.5	988.7	846.8	703.2	581.4	463.0	340.3	230.8	131.7	80.8	46.8
45°	1261.9	1116.5	964.9	812.3	661.2	537.1	409.3	280.3	175.6	100.7	51.9
42.5°	1390.3	1238.1	1080.4	917.6	755.2	607.9	475.6	338.6	218.3	119.8	63.6
40°	1541.1	1354.3	1190.9	1020.9	848.7	676.3	537.9	396.2	259.2	143.9	79.5
37.5°	1688.9	1481.0	1294.8	1119.8	938.7	758.4	597.1	451.1	300.9	178.4	94.7
35°	1836.2	1613.0	1393.9	1212.7	1025.6	836.5	653.3	502.6	347.5	211.0	109.0
32.5°	1976.9	1740.2	1508.4	1299.7	1107.8	910.3	714.8	550.6	391.5	241.7	122.5
30°	2093.1	1864.0	1618.3	1381.7	1184.5	980.9	777.8	595.5	432.6	270.5	138.1
27.5°	2197.2	1980.1	1722.1	1471.5	1254.8	1046.8	836.5	637.3	470.9	299.9	161.3
25°	2289.5	2074.8	1821.8	1559.4	1319.9	1107.8	890.7	676.3	505.6	331.0	182.8
22.5°	2363.6	2157.4	1913.3	1640.1	1379.6	1163.6	940.7	720.9	537.1	359.4	202.3
20°	2430.9	2232.5	1996.4	1713.7	1441.0	1212.7	986.4	761.2	565.4	385.0	219.9
17.5°	2541.7	2294.2	2060.5	1781.8	1500.6	1256.5	1027.1	797.0	590.7	407.8	235.5
15°	2866.8	2343.0	2114.6	1841.5	1552.7	1294.8	1062.6	828.2	612.7	427.6	249.2
12.5°	3145.4	2384.8	2160.9	1892.4	1597.2	1327.4	1092.9	854.9	631.4	444.5	260.8
10°	3375.8	2419.4	2199.1	1934.4	1633.8	1354.3	1117.8	876.7	646.8	458.4	270.3
7.5°	3556.5	2446.4	2229.0	1967.2	1662.5	1375.3	1137.3	893.8	658.8	469.2	277.7
5°	3686.4	2465.9	2250.5	1990.8	1683.0	1390.3	1151.2	906.1	667.4	477.0	283.0
2.5°	3764.7	2477.6	2263.4	2005.0	1695.4	1399.4	1159.6	913.4	672.6	481.6	286.2
0°	3790.9	2481.5	2267.7	2009.7	1699.5	1402.4	1162.4	915.9	674.3	483.2	287.3
-2.5°	3764.7	2477.6	2263.4	2005.0	1695.4	1399.4	1159.6	913.4	672.6	481.6	286.2
-5°	3686.4	2465.9	2250.5	1990.8	1683.0	1390.3	1151.2	906.1	667.4	477.0	283.0
-7.5°	3556.5	2446.4	2229.0	1967.2	1662.5	1375.3	1137.3	893.8	658.8	469.2	277.7
-10°	3375.8	2419.4	2199.1	1934.4	1633.8	1354.3	1117.8	876.7	646.8	458.4	270.3
-12.5°	3145.4	2384.8	2160.9	1892.4	1597.2	1327.4	1092.9	854.9	631.4	444.5	260.8
-15°	2866.8	2343.0	2114.6	1841.5	1552.7	1294.8	1062.6	828.2	612.7	427.6	249.2
-17.5°	2541.7	2294.2	2060.5	1781.8	1500.6	1256.5	1027.1	797.0	590.7	407.8	235.5
-20°	2430.9	2232.5	1996.4	1713.7	1441.0	1212.7	986.4	761.2	565.4	385.0	219.9



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2363.6	2157.4	1913.3	1640.1	1379.6	1163.6	940.7	720.9	537.1	359.4	202.3
-25°	2289.5	2074.8	1821.8	1559.4	1319.9	1107.8	890.7	676.3	505.6	331.0	182.8
-27.5°	2197.2	1980.1	1722.1	1471.5	1254.8	1046.8	836.5	637.3	470.9	299.9	161.3
-30°	2093.1	1864.0	1618.3	1381.7	1184.5	980.9	777.8	595.5	432.6	270.5	138.1
-32.5°	1976.9	1740.2	1508.4	1299.7	1107.8	910.3	714.8	550.6	391.5	241.7	122.5
-35°	1836.2	1613.0	1393.9	1212.7	1025.6	836.5	653.3	502.6	347.5	211.0	109.0
-37.5°	1688.9	1481.0	1294.8	1119.8	938.7	758.4	597.1	451.1	300.9	178.4	94.7
-40°	1541.1	1354.3	1190.9	1020.9	848.7	676.3	537.9	396.2	259.2	143.9	79.5
-42.5°	1390.3	1238.1	1080.4	917.6	755.2	607.9	475.6	338.6	218.3	119.8	63.6
-45°	1261.9	1116.5	964.9	812.3	661.2	537.1	409.3	280.3	175.6	100.7	51.9
-47.5°	1128.5	988.7	846.8	703.2	581.4	463.0	340.3	230.8	131.7	80.8	46.8
-50°	988.7	858.4	726.1	608.2	498.8	385.0	272.8	179.5	108.4	60.2	41.5
-52.5°	846.8	726.1	617.1	516.6	412.1	304.6	214.4	129.3	84.3	49.5	36.0
-55°	703.2	608.2	516.6	421.1	322.5	235.5	154.4	101.8	59.5	43.0	30.7
-57.5°	581.4	498.8	412.1	322.5	242.6	168.4	112.3	73.5	48.1	36.4	27.8
-60°	463.0	385.0	304.6	235.5	168.4	115.8	80.5	51.1	40.4	30.3	24.8
-62.5°	340.3	272.8	214.4	154.4	112.3	80.5	52.2	42.5	32.6	26.8	21.8
-65°	230.8	179.5	129.3	101.8	73.5	51.1	42.5	33.6	27.8	23.3	18.9
-67.5°	131.7	108.4	84.3	59.5	48.1	40.4	32.6	27.8	23.8	19.7	16.7
-70°	80.8	60.2	49.5	43.0	36.4	30.3	26.8	23.3	19.7	17.0	14.4
-72.5°	46.8	41.5	36.0	30.7	27.8	24.8	21.8	18.9	16.7	14.4	12.0
-75°	31.6	29.1	26.7	24.3	21.9	19.4	17.5	15.6	13.6	11.7	10.3
-77.5°	23.7	21.9	19.9	18.4	16.9	15.4	13.8	12.2	10.9	9.9	8.9
-80°	17.1	16.0	14.9	13.7	12.6	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



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

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°	13.6	10.9	9.1	7.2	5.0	2.5	0.0
65°	15.6	12.2	9.8	7.8	5.5	2.7	0.0
62.5°	17.5	13.8	10.6	8.4	6.0	3.0	0.0
60°	19.4	15.4	11.4	8.9	6.5	3.2	0.0
57.5°	21.9	16.9	12.6	9.5	6.9	3.5	0.0
55°	24.3	18.4	13.7	10.0	7.2	3.7	0.0
52.5°	26.7	19.9	14.9	10.5	7.6	4.0	0.0
50°	29.1	21.9	16.0	11.0	7.9	4.2	0.0
47.5°	31.6	23.7	17.1	11.6	8.2	4.4	0.0
45°	36.0	25.5	18.1	12.4	8.5	4.6	0.0
42.5°	40.2	27.3	19.1	13.1	8.8	4.8	0.0
40°	44.2	28.9	20.3	13.8	9.1	5.0	0.0
37.5°	47.9	30.5	21.5	14.5	9.4	5.2	0.0
35°	51.5	32.9	22.7	15.1	9.6	5.3	0.0
32.5°	57.3	35.7	23.8	15.7	9.9	5.5	0.0
30°	68.1	38.4	24.8	16.3	10.1	5.6	0.0
27.5°	78.1	40.8	25.8	16.8	10.3	5.8	0.0
25°	87.3	43.0	26.7	17.3	10.5	5.9	0.0
22.5°	95.7	45.1	27.5	17.7	10.7	6.0	0.0
20°	103.3	46.9	28.2	18.1	10.8	6.1	0.0
17.5°	110.0	48.5	28.9	18.5	10.9	6.2	0.0
15°	115.8	49.9	29.4	18.8	11.1	6.3	0.0
12.5°	120.8	51.1	29.9	19.0	11.2	6.3	0.0
10°	124.9	52.1	30.3	19.2	11.3	6.4	0.0
7.5°	128.1	52.9	30.6	19.4	11.3	6.4	0.0
5°	130.4	53.5	30.8	19.5	11.4	6.5	0.0
2.5°	131.7	53.8	31.0	19.6	11.4	6.5	0.0
0°	132.2	53.9	31.0	19.6	11.4	6.5	0.0
-2.5°	131.7	53.8	31.0	19.6	11.4	6.5	0.0
-5°	130.4	53.5	30.8	19.5	11.4	6.5	0.0
-7.5°	128.1	52.9	30.6	19.4	11.3	6.4	0.0
-10°	124.9	52.1	30.3	19.2	11.3	6.4	0.0
-12.5°	120.8	51.1	29.9	19.0	11.2	6.3	0.0
-15°	115.8	49.9	29.4	18.8	11.1	6.3	0.0
-17.5°	110.0	48.5	28.9	18.5	10.9	6.2	0.0
-20°	103.3	46.9	28.2	18.1	10.8	6.1	0.0



REPORT NUMBER: P701435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	95.7	45.1	27.5	17.7	10.7	6.0	0.0
-25°	87.3	43.0	26.7	17.3	10.5	5.9	0.0
-27.5°	78.1	40.8	25.8	16.8	10.3	5.8	0.0
-30°	68.1	38.4	24.8	16.3	10.1	5.6	0.0
-32.5°	57.3	35.7	23.8	15.7	9.9	5.5	0.0
-35°	51.5	32.9	22.7	15.1	9.6	5.3	0.0
-37.5°	47.9	30.5	21.5	14.5	9.4	5.2	0.0
-40°	44.2	28.9	20.3	13.8	9.1	5.0	0.0
-42.5°	40.2	27.3	19.1	13.1	8.8	4.8	0.0
-45°	36.0	25.5	18.1	12.4	8.5	4.6	0.0
-47.5°	31.6	23.7	17.1	11.6	8.2	4.4	0.0
-50°	29.1	21.9	16.0	11.0	7.9	4.2	0.0
-52.5°	26.7	19.9	14.9	10.5	7.6	4.0	0.0
-55°	24.3	18.4	13.7	10.0	7.2	3.7	0.0
-57.5°	21.9	16.9	12.6	9.5	6.9	3.5	0.0
-60°	19.4	15.4	11.4	8.9	6.5	3.2	0.0
-62.5°	17.5	13.8	10.6	8.4	6.0	3.0	0.0
-65°	15.6	12.2	9.8	7.8	5.5	2.7	0.0
-67.5°	13.6	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





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

