

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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-4S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

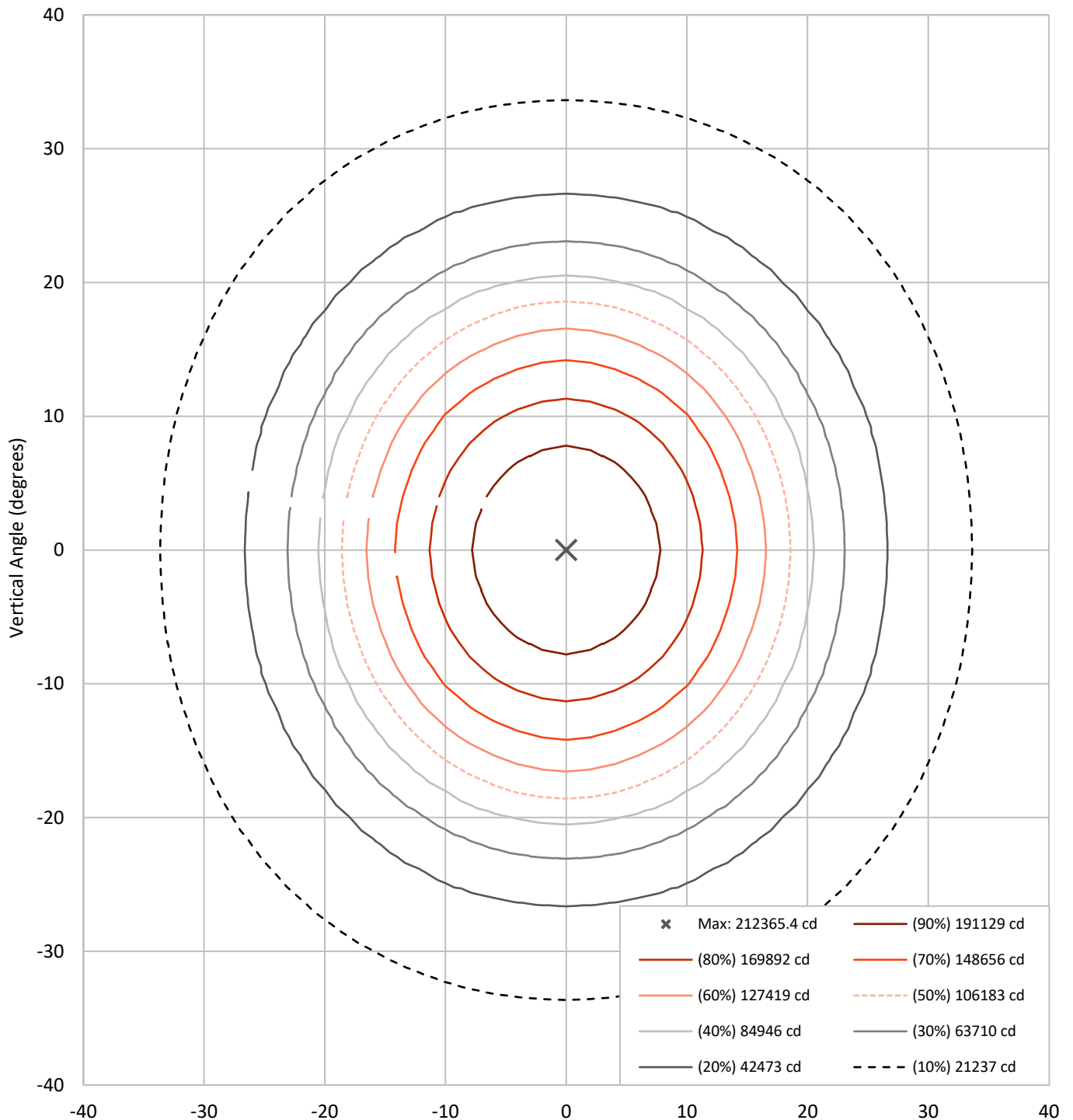
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	98072.4 lumens	Max Intensity:	212365.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	51055.6 lumens	Field Lumens:	85764.8 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

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

REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

Iso-Candela Plot





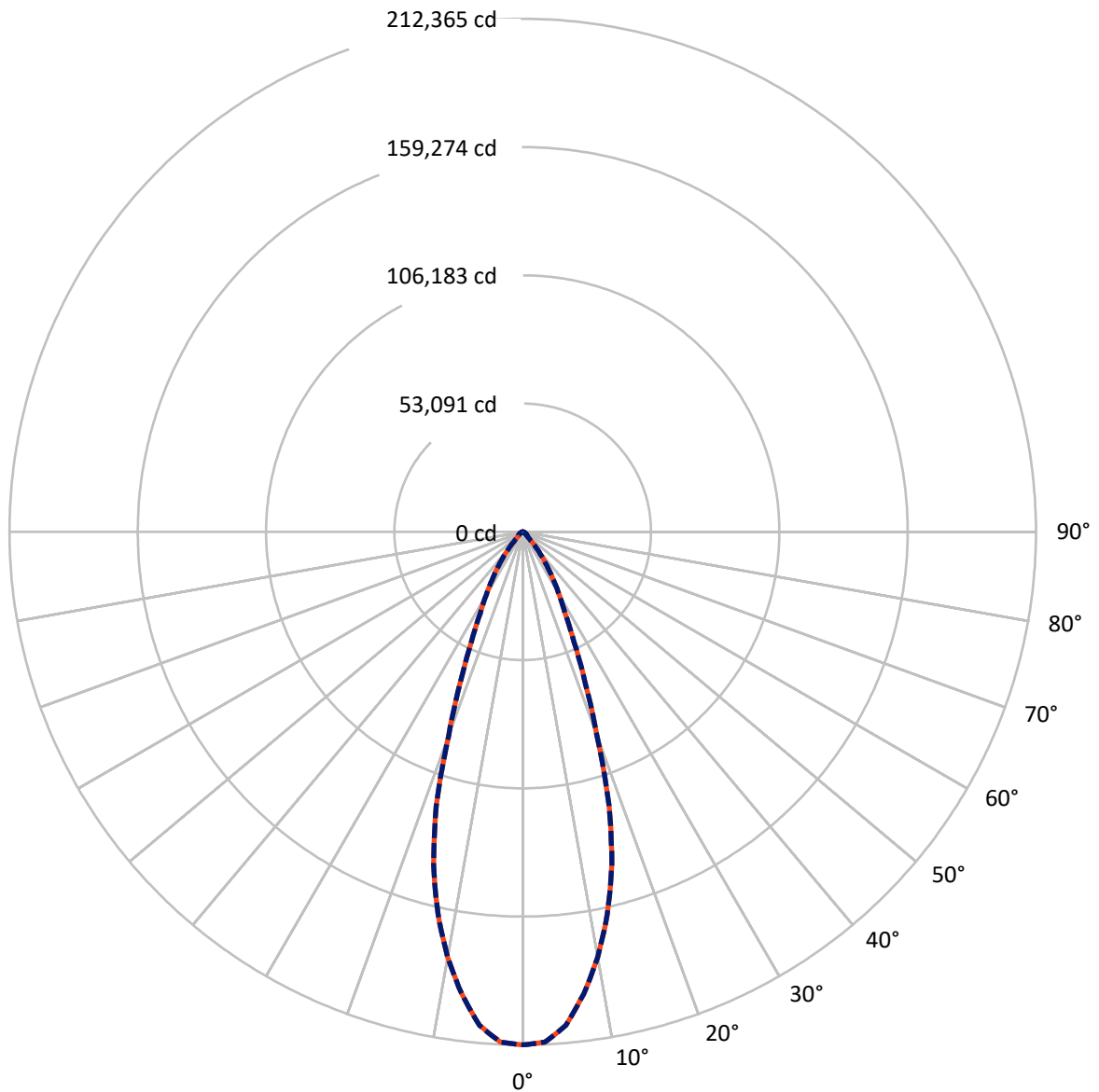
REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

Lumen Table

90																			
80	0.1	0.7		2.9		7.0		9.1		7.0		2.9		0.7	0.1				
70																			
60	0.3	0.5	1.8	4.9	10.2	16.6	22.2	25.3	25.3	22.2	16.6	10.2	4.9	1.8	0.5	0.3			
50		1.3	5.8	15.8	29.0	40.7	49.4	54.1	54.1	49.4	40.7	29.0	15.8	5.8	1.3				
40	1.0	3.0	12.9	29.4	45.7	63.4	91.1	120.2	120.2	91.1	63.4	45.7	29.4	12.9	3.0	1.0			
30		5.5	20.5	39.5	68.6	184.5	390.4	541.5	541.5	390.4	184.5	68.6	39.5	20.5	5.5				
20	2.0	8.0	26.0	49.7	168.0	524.8	1026.4	1526.2	1526.2	1026.4	524.8	168.0	49.7	26.0	8.0	2.0			
10		10.1	29.6	67.5	334.4	966.4	2393.3	3928.8	3928.8	2393.3	966.4	334.4	67.5	29.6	10.1				
0	2.5	11.1	31.5	87.0	450.0	1397.4	3817.8	5750.8	5750.8	3817.8	1397.4	450.0	87.0	31.5	11.1	2.5			
-10		11.1	31.5	87.0	450.0	1397.4	3817.8	5750.8	5750.8	3817.8	1397.4	450.0	87.0	31.5	11.1				
-20	2.0	10.1	29.6	67.5	334.4	966.4	2393.3	3928.8	3928.8	2393.3	966.4	334.4	67.5	29.6	10.1	2.0			
-30		8.0	26.0	49.7	168.0	524.8	1026.4	1526.2	1526.2	1026.4	524.8	168.0	49.7	26.0	8.0				
-40	1.0	5.5	20.5	39.5	68.6	184.5	390.4	541.5	541.5	390.4	184.5	68.6	39.5	20.5	5.5	1.0			
-50		3.0	12.9	29.4	45.7	63.4	91.1	120.2	120.2	91.1	63.4	45.7	29.4	12.9	3.0				
-60	0.3	1.3	5.8	15.8	29.0	40.7	49.4	54.1	54.1	49.4	40.7	29.0	15.8	5.8	1.3	0.3			
-70		0.5	1.8	4.9	10.2	16.6	22.2	25.3	25.3	22.2	16.6	10.2	4.9	1.8	0.5				
-80	0.1	0.7		2.9		7.0		9.1		7.0		2.9		0.7	0.1				
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

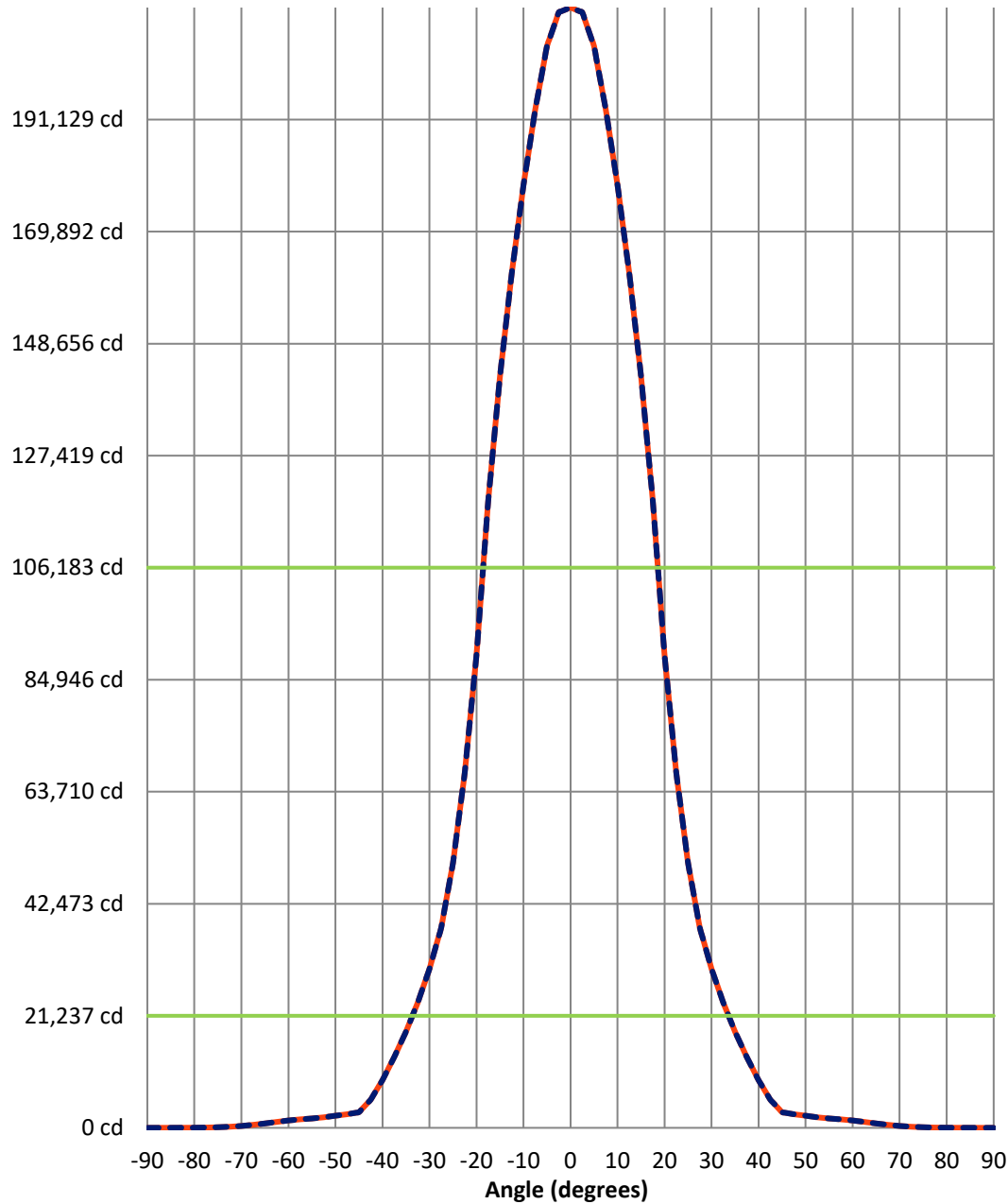
Luminous Intensity Polar Plot



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

REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 51055.6
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 85764.8
 Efficiency: 87.5%

Spill:
 Lumens: 12307.6
 Efficiency: 12.5%

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



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

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	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1
85°	0.0	0.4	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1
82.5°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
80°	0.0	0.9	1.7	2.5	3.4	4.2	5.0	5.9	6.7	7.5	8.2
77.5°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.6
75°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.7	10.1	12.0	14.0
72.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.7	10.4	12.8	15.1	17.3
70°	0.0	1.7	3.3	5.0	6.7	8.3	10.1	12.8	15.4	18.1	20.6
67.5°	0.0	1.9	3.7	5.6	7.5	9.3	12.0	15.1	18.1	21.0	23.9
65°	0.0	2.1	4.1	6.2	8.2	10.6	14.0	17.3	20.6	23.9	29.1
62.5°	0.0	2.3	4.5	6.8	9.0	12.2	15.9	19.6	23.1	28.0	39.2
60°	0.0	2.4	4.9	7.3	9.8	13.8	17.8	21.7	25.6	36.9	49.1
57.5°	0.0	2.6	5.3	7.9	11.0	15.3	19.6	23.8	32.3	45.6	68.1
55°	0.0	2.8	5.6	8.4	12.1	16.8	21.4	25.9	39.8	56.8	91.1
52.5°	0.0	3.0	6.0	8.9	13.3	18.2	23.1	31.8	47.2	77.0	113.6
50°	0.0	3.1	6.3	9.4	14.4	19.6	24.7	38.1	57.3	96.5	142.8
47.5°	0.0	3.3	6.6	10.0	15.5	20.9	26.8	44.1	74.1	115.5	172.0
45°	0.0	3.5	6.9	10.8	16.5	22.2	31.8	49.9	90.3	140.6	200.1
42.5°	0.0	3.6	7.2	11.5	17.5	23.5	36.5	60.1	105.9	164.9	243.4
40°	0.0	3.8	7.5	12.2	18.5	24.6	41.1	73.0	122.6	188.1	287.6
37.5°	0.0	3.9	7.8	12.9	19.4	25.7	45.4	85.4	142.2	214.6	329.7
35°	0.0	4.0	8.0	13.5	20.2	28.3	49.5	97.0	160.7	250.3	376.2
32.5°	0.0	4.1	8.3	14.1	21.0	31.5	55.0	108.0	178.2	284.0	430.3
30°	0.0	4.2	8.5	14.7	21.7	34.5	63.7	119.2	194.6	315.5	480.9
27.5°	0.0	4.3	8.7	15.2	22.4	37.3	71.9	132.5	213.7	344.9	528.1
25°	0.0	4.4	8.9	15.7	23.0	39.8	79.4	144.7	237.6	379.6	572.0
22.5°	0.0	4.5	9.1	16.1	23.6	42.1	86.2	155.8	259.4	415.1	619.9
20°	0.0	4.6	9.2	16.5	24.1	44.2	92.4	165.8	279.0	447.0	663.1
17.5°	0.0	4.7	9.3	16.9	24.6	46.1	97.8	174.7	296.5	475.5	701.6
15°	0.0	4.7	9.5	17.2	25.0	47.7	102.6	182.4	311.7	500.3	735.1
12.5°	0.0	4.8	9.6	17.4	25.3	49.1	106.6	189.0	324.6	521.4	763.7
10°	0.0	4.8	9.7	17.6	25.6	50.2	110.0	194.4	335.3	538.8	787.2
7.5°	0.0	4.9	9.7	17.8	25.8	51.1	112.6	198.6	343.6	552.3	805.6
5°	0.0	4.9	9.8	17.9	26.0	51.7	114.4	201.7	349.5	562.0	818.8
2.5°	0.0	4.9	9.8	18.0	26.1	52.1	115.5	203.5	353.1	567.9	826.7
0°	0.0	4.9	9.8	18.0	26.1	52.2	115.9	204.1	354.3	569.8	829.3
-2.5°	0.0	4.9	9.8	18.0	26.1	52.1	115.5	203.5	353.1	567.9	826.7
-5°	0.0	4.9	9.8	17.9	26.0	51.7	114.4	201.7	349.5	562.0	818.8
-7.5°	0.0	4.9	9.7	17.8	25.8	51.1	112.6	198.6	343.6	552.3	805.6
-10°	0.0	4.8	9.7	17.6	25.6	50.2	110.0	194.4	335.3	538.8	787.2
-12.5°	0.0	4.8	9.6	17.4	25.3	49.1	106.6	189.0	324.6	521.4	763.7
-15°	0.0	4.7	9.5	17.2	25.0	47.7	102.6	182.4	311.7	500.3	735.1
-17.5°	0.0	4.7	9.3	16.9	24.6	46.1	97.8	174.7	296.5	475.5	701.6
-20°	0.0	4.6	9.2	16.5	24.1	44.2	92.4	165.8	279.0	447.0	663.1



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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	4.5	9.1	16.1	23.6	42.1	86.2	155.8	259.4	415.1	619.9
-25°	0.0	4.4	8.9	15.7	23.0	39.8	79.4	144.7	237.6	379.6	572.0
-27.5°	0.0	4.3	8.7	15.2	22.4	37.3	71.9	132.5	213.7	344.9	528.1
-30°	0.0	4.2	8.5	14.7	21.7	34.5	63.7	119.2	194.6	315.5	480.9
-32.5°	0.0	4.1	8.3	14.1	21.0	31.5	55.0	108.0	178.2	284.0	430.3
-35°	0.0	4.0	8.0	13.5	20.2	28.3	49.5	97.0	160.7	250.3	376.2
-37.5°	0.0	3.9	7.8	12.9	19.4	25.7	45.4	85.4	142.2	214.6	329.7
-40°	0.0	3.8	7.5	12.2	18.5	24.6	41.1	73.0	122.6	188.1	287.6
-42.5°	0.0	3.6	7.2	11.5	17.5	23.5	36.5	60.1	105.9	164.9	243.4
-45°	0.0	3.5	6.9	10.8	16.5	22.2	31.8	49.9	90.3	140.6	200.1
-47.5°	0.0	3.3	6.6	10.0	15.5	20.9	26.8	44.1	74.1	115.5	172.0
-50°	0.0	3.1	6.3	9.4	14.4	19.6	24.7	38.1	57.3	96.5	142.8
-52.5°	0.0	3.0	6.0	8.9	13.3	18.2	23.1	31.8	47.2	77.0	113.6
-55°	0.0	2.8	5.6	8.4	12.1	16.8	21.4	25.9	39.8	56.8	91.1
-57.5°	0.0	2.6	5.3	7.9	11.0	15.3	19.6	23.8	32.3	45.6	68.1
-60°	0.0	2.4	4.9	7.3	9.8	13.8	17.8	21.7	25.6	36.9	49.1
-62.5°	0.0	2.3	4.5	6.8	9.0	12.2	15.9	19.6	23.1	28.0	39.2
-65°	0.0	2.1	4.1	6.2	8.2	10.6	14.0	17.3	20.6	23.9	29.1
-67.5°	0.0	1.9	3.7	5.6	7.5	9.3	12.0	15.1	18.1	21.0	23.9
-70°	0.0	1.7	3.3	5.0	6.7	8.3	10.1	12.8	15.4	18.1	20.6
-72.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.7	10.4	12.8	15.1	17.3
-75°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.7	10.1	12.0	14.0
-77.5°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.6
-80°	0.0	0.9	1.7	2.5	3.4	4.2	5.0	5.9	6.7	7.5	8.2
-82.5°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
-85°	0.0	0.4	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1
-87.5°	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

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°	2.3	2.4	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.8	3.9
85°	4.5	4.9	5.3	5.6	6.0	6.3	6.6	6.9	7.2	7.5	7.8
82.5°	6.8	7.3	7.9	8.4	8.9	9.4	10.0	10.8	11.5	12.2	12.9
80°	9.0	9.8	11.0	12.1	13.3	14.4	15.5	16.5	17.5	18.5	19.4
77.5°	12.2	13.8	15.3	16.8	18.2	19.6	20.9	22.2	23.5	24.6	25.7
75°	15.9	17.8	19.6	21.4	23.1	24.7	26.8	31.8	36.5	41.1	45.4
72.5°	19.6	21.7	23.8	25.9	31.8	38.1	44.1	49.9	60.1	73.0	85.4
70°	23.1	25.6	32.3	39.8	47.2	57.3	74.1	90.3	105.9	122.6	142.2
67.5°	28.0	36.9	45.6	56.8	77.0	96.5	115.5	140.6	164.9	188.1	214.6
65°	39.2	49.1	68.1	91.1	113.6	142.8	172.0	200.1	243.4	287.6	329.7
62.5°	50.2	73.8	99.7	128.5	162.7	195.8	244.8	297.6	348.5	415.9	482.7
60°	73.8	102.6	136.5	174.7	217.4	279.0	338.8	415.1	495.0	572.0	660.2
57.5°	99.7	136.5	178.7	231.1	299.8	371.9	465.0	555.1	656.7	757.2	856.0
55°	128.5	174.7	231.1	306.7	391.9	495.2	600.9	718.0	831.2	952.4	1068.4
52.5°	162.7	217.4	299.8	391.9	505.3	625.4	755.1	886.7	1022.2	1151.3	1271.4
50°	195.8	279.0	371.9	495.2	625.4	767.5	914.6	1064.4	1205.9	1340.2	1452.0
47.5°	244.8	338.8	465.0	600.9	755.1	914.6	1078.6	1233.4	1381.9	1494.9	1600.5
45°	297.6	415.1	555.1	718.0	886.7	1064.4	1233.4	1395.9	1516.6	1627.7	1715.2
42.5°	348.5	495.0	656.7	831.2	1022.2	1205.9	1381.9	1516.6	1636.3	1732.6	1842.8
40°	415.9	572.0	757.2	952.4	1151.3	1340.2	1494.9	1627.7	1732.6	1854.5	1985.3
37.5°	482.7	660.2	856.0	1068.4	1271.4	1452.0	1600.5	1715.2	1842.8	1985.3	2177.7
35°	546.1	744.0	957.9	1176.5	1386.1	1546.3	1680.7	1807.7	1961.3	2160.4	2359.0
32.5°	613.3	823.2	1054.3	1277.2	1471.6	1629.7	1755.5	1913.9	2108.8	2327.5	2520.8
30°	681.0	905.5	1143.9	1371.9	1550.1	1695.6	1843.7	2023.9	2260.8	2472.5	2712.3
27.5°	744.0	982.8	1225.2	1445.3	1620.1	1757.3	1931.9	2157.7	2393.2	2622.2	2913.4
25°	802.2	1054.3	1300.5	1508.1	1673.1	1828.2	2023.2	2282.5	2513.1	2798.8	3879.0
22.5°	858.4	1119.7	1369.5	1565.6	1721.8	1898.2	2130.1	2387.4	2642.0	3003.2	4981.1
20°	912.0	1176.5	1423.4	1615.7	1766.0	1961.8	2227.3	2481.4	2781.2	3943.5	6367.5
17.5°	959.7	1227.2	1466.0	1651.9	1816.0	2029.9	2313.0	2565.8	2906.6	4791.8	7797.0
15°	1001.3	1271.4	1503.2	1683.6	1861.9	2100.4	2381.5	2664.0	3344.5	5662.4	9071.1
12.5°	1036.8	1309.2	1535.0	1710.6	1901.2	2160.8	2440.2	2751.6	3939.9	6670.7	10362.8
10°	1066.0	1340.2	1561.2	1732.9	1933.5	2210.6	2488.7	2824.1	4433.7	7508.5	11438.5
7.5°	1088.8	1364.5	1581.6	1750.4	1958.9	2249.7	2526.8	2881.0	4822.1	8168.5	12287.4
5°	1105.2	1381.9	1596.3	1762.9	1977.1	2277.7	2554.2	2922.0	5101.8	8644.5	12900.5
2.5°	1115.0	1392.4	1605.2	1770.5	1988.0	2294.7	2570.7	2946.7	5270.7	8932.0	13271.3
0°	1118.3	1395.9	1608.1	1773.0	1991.7	2300.3	2576.2	2955.0	5327.1	9028.1	13395.3
-2.5°	1115.0	1392.4	1605.2	1770.5	1988.0	2294.7	2570.7	2946.7	5270.7	8932.0	13271.3
-5°	1105.2	1381.9	1596.3	1762.9	1977.1	2277.7	2554.2	2922.0	5101.8	8644.5	12900.5
-7.5°	1088.8	1364.5	1581.6	1750.4	1958.9	2249.7	2526.8	2881.0	4822.1	8168.5	12287.4
-10°	1066.0	1340.2	1561.2	1732.9	1933.5	2210.6	2488.7	2824.1	4433.7	7508.5	11438.5
-12.5°	1036.8	1309.2	1535.0	1710.6	1901.2	2160.8	2440.2	2751.6	3939.9	6670.7	10362.8
-15°	1001.3	1271.4	1503.2	1683.6	1861.9	2100.4	2381.5	2664.0	3344.5	5662.4	9071.1
-17.5°	959.7	1227.2	1466.0	1651.9	1816.0	2029.9	2313.0	2565.8	2906.6	4791.8	7797.0
-20°	912.0	1176.5	1423.4	1615.7	1766.0	1961.8	2227.3	2481.4	2781.2	3943.5	6367.5



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	858.4	1119.7	1369.5	1565.6	1721.8	1898.2	2130.1	2387.4	2642.0	3003.2	4981.1
-25°	802.2	1054.3	1300.5	1508.1	1673.1	1828.2	2023.2	2282.5	2513.1	2798.8	3879.0
-27.5°	744.0	982.8	1225.2	1445.3	1620.1	1757.3	1931.9	2157.7	2393.2	2622.2	2913.4
-30°	681.0	905.5	1143.9	1371.9	1550.1	1695.6	1843.7	2023.9	2260.8	2472.5	2712.3
-32.5°	613.3	823.2	1054.3	1277.2	1471.6	1629.7	1755.5	1913.9	2108.8	2327.5	2520.8
-35°	546.1	744.0	957.9	1176.5	1386.1	1546.3	1680.7	1807.7	1961.3	2160.4	2359.0
-37.5°	482.7	660.2	856.0	1068.4	1271.4	1452.0	1600.5	1715.2	1842.8	1985.3	2177.7
-40°	415.9	572.0	757.2	952.4	1151.3	1340.2	1494.9	1627.7	1732.6	1854.5	1985.3
-42.5°	348.5	495.0	656.7	831.2	1022.2	1205.9	1381.9	1516.6	1636.3	1732.6	1842.8
-45°	297.6	415.1	555.1	718.0	886.7	1064.4	1233.4	1395.9	1516.6	1627.7	1715.2
-47.5°	244.8	338.8	465.0	600.9	755.1	914.6	1078.6	1233.4	1381.9	1494.9	1600.5
-50°	195.8	279.0	371.9	495.2	625.4	767.5	914.6	1064.4	1205.9	1340.2	1452.0
-52.5°	162.7	217.4	299.8	391.9	505.3	625.4	755.1	886.7	1022.2	1151.3	1271.4
-55°	128.5	174.7	231.1	306.7	391.9	495.2	600.9	718.0	831.2	952.4	1068.4
-57.5°	99.7	136.5	178.7	231.1	299.8	371.9	465.0	555.1	656.7	757.2	856.0
-60°	73.8	102.6	136.5	174.7	217.4	279.0	338.8	415.1	495.0	572.0	660.2
-62.5°	50.2	73.8	99.7	128.5	162.7	195.8	244.8	297.6	348.5	415.9	482.7
-65°	39.2	49.1	68.1	91.1	113.6	142.8	172.0	200.1	243.4	287.6	329.7
-67.5°	28.0	36.9	45.6	56.8	77.0	96.5	115.5	140.6	164.9	188.1	214.6
-70°	23.1	25.6	32.3	39.8	47.2	57.3	74.1	90.3	105.9	122.6	142.2
-72.5°	19.6	21.7	23.8	25.9	31.8	38.1	44.1	49.9	60.1	73.0	85.4
-75°	15.9	17.8	19.6	21.4	23.1	24.7	26.8	31.8	36.5	41.1	45.4
-77.5°	12.2	13.8	15.3	16.8	18.2	19.6	20.9	22.2	23.5	24.6	25.7
-80°	9.0	9.8	11.0	12.1	13.3	14.4	15.5	16.5	17.5	18.5	19.4
-82.5°	6.8	7.3	7.9	8.4	8.9	9.4	10.0	10.8	11.5	12.2	12.9
-85°	4.5	4.9	5.3	5.6	6.0	6.3	6.6	6.9	7.2	7.5	7.8
-87.5°	2.3	2.4	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.8	3.9
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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°	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8	4.8
85°	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.3	9.5	9.6	9.7
82.5°	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.4	17.6
80°	20.2	21.0	21.7	22.4	23.0	23.6	24.1	24.6	25.0	25.3	25.6
77.5°	28.3	31.5	34.5	37.3	39.8	42.1	44.2	46.1	47.7	49.1	50.2
75°	49.5	55.0	63.7	71.9	79.4	86.2	92.4	97.8	102.6	106.6	110.0
72.5°	97.0	108.0	119.2	132.5	144.7	155.8	165.8	174.7	182.4	189.0	194.4
70°	160.7	178.2	194.6	213.7	237.6	259.4	279.0	296.5	311.7	324.6	335.3
67.5°	250.3	284.0	315.5	344.9	379.6	415.1	447.0	475.5	500.3	521.4	538.8
65°	376.2	430.3	480.9	528.1	572.0	619.9	663.1	701.6	735.1	763.7	787.2
62.5°	546.1	613.3	681.0	744.0	802.2	858.4	912.0	959.7	1001.3	1036.8	1066.0
60°	744.0	823.2	905.5	982.8	1054.3	1119.7	1176.5	1227.2	1271.4	1309.2	1340.2
57.5°	957.9	1054.3	1143.9	1225.2	1300.5	1369.5	1423.4	1466.0	1503.2	1535.0	1561.2
55°	1176.5	1277.2	1371.9	1445.3	1508.1	1565.6	1615.7	1651.9	1683.6	1710.6	1732.9
52.5°	1386.1	1471.6	1550.1	1620.1	1673.1	1721.8	1766.0	1816.0	1861.9	1901.2	1933.5
50°	1546.3	1629.7	1695.6	1757.3	1828.2	1898.2	1961.8	2029.9	2100.4	2160.8	2210.6
47.5°	1680.7	1755.5	1843.7	1931.9	2023.2	2130.1	2227.3	2313.0	2381.5	2440.2	2488.7
45°	1807.7	1913.9	2023.9	2157.7	2282.5	2387.4	2481.4	2565.8	2664.0	2751.6	2824.1
42.5°	1961.3	2108.8	2260.8	2393.2	2513.1	2642.0	2781.2	2906.6	3344.5	3939.9	4433.7
40°	2160.4	2327.5	2472.5	2622.2	2798.8	3003.2	3943.5	4791.8	5662.4	6670.7	7508.5
37.5°	2359.0	2520.8	2712.3	2913.4	3879.0	4981.1	6367.5	7797.0	9071.1	10362.8	11438.5
35°	2537.0	2757.8	3132.1	4474.9	5973.4	7818.2	9607.3	11428.6	13048.6	14558.8	15849.1
32.5°	2757.8	3279.1	4776.6	6697.7	8807.8	11101.1	13259.8	15411.8	17345.2	19144.8	20756.8
30°	3132.1	4776.6	6941.3	9360.3	12015.4	14626.5	17182.7	19712.5	22113.7	24290.4	26339.9
27.5°	4474.9	6697.7	9360.3	12323.4	15328.0	18279.6	21425.7	24417.0	27448.5	30107.6	32844.4
25°	5973.4	8807.8	12015.4	15328.0	18699.7	22298.9	25998.1	29632.1	33542.4	37087.5	41334.6
22.5°	7818.2	11101.1	14626.5	18279.6	22298.9	26532.7	30887.6	35674.3	41247.5	47344.0	53491.9
20°	9607.3	13259.8	17182.7	21425.7	25998.1	30887.6	36397.4	43634.6	51458.2	60779.0	69322.3
17.5°	11428.6	15411.8	19712.5	24417.0	29632.1	35674.3	43634.6	53239.8	64557.0	77174.7	88934.4
15°	13048.6	17345.2	22113.7	27448.5	33542.4	41247.5	51458.2	64557.0	79868.1	96257.1	113440.3
12.5°	14558.8	19144.8	24290.4	30107.6	37087.5	47344.0	60779.0	77174.7	96257.1	117613.7	133416.1
10°	15849.1	20756.8	26339.9	32844.4	41334.6	53491.9	69322.3	88934.4	113440.3	133416.1	149697.1
7.5°	16869.7	22035.4	27971.0	35033.9	45133.1	59367.3	77940.2	101404.5	126112.3	146128.2	162135.6
5°	17608.2	22962.6	29157.2	36631.6	47917.3	63698.9	84342.9	110927.3	134970.2	154845.7	171007.0
2.5°	18055.2	23524.8	29877.7	37604.5	49618.1	66356.3	88293.7	116851.7	140547.4	160195.0	176689.4
0°	18204.9	23713.2	30119.4	37931.3	50190.3	67252.3	89630.0	118864.6	142455.3	161968.7	178698.5
-2.5°	18055.2	23524.8	29877.7	37604.5	49618.1	66356.3	88293.7	116851.7	140547.4	160195.0	176689.4
-5°	17608.2	22962.6	29157.2	36631.6	47917.3	63698.9	84342.9	110927.3	134970.2	154845.7	171007.0
-7.5°	16869.7	22035.4	27971.0	35033.9	45133.1	59367.3	77940.2	101404.5	126112.3	146128.2	162135.6
-10°	15849.1	20756.8	26339.9	32844.4	41334.6	53491.9	69322.3	88934.4	113440.3	133416.1	149697.1
-12.5°	14558.8	19144.8	24290.4	30107.6	37087.5	47344.0	60779.0	77174.7	96257.1	117613.7	133416.1
-15°	13048.6	17345.2	22113.7	27448.5	33542.4	41247.5	51458.2	64557.0	79868.1	96257.1	113440.3
-17.5°	11428.6	15411.8	19712.5	24417.0	29632.1	35674.3	43634.6	53239.8	64557.0	77174.7	88934.4
-20°	9607.3	13259.8	17182.7	21425.7	25998.1	30887.6	36397.4	43634.6	51458.2	60779.0	69322.3



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7818.2	11101.1	14626.5	18279.6	22298.9	26532.7	30887.6	35674.3	41247.5	47344.0	53491.9
-25°	5973.4	8807.8	12015.4	15328.0	18699.7	22298.9	25998.1	29632.1	33542.4	37087.5	41334.6
-27.5°	4474.9	6697.7	9360.3	12323.4	15328.0	18279.6	21425.7	24417.0	27448.5	30107.6	32844.4
-30°	3132.1	4776.6	6941.3	9360.3	12015.4	14626.5	17182.7	19712.5	22113.7	24290.4	26339.9
-32.5°	2757.8	3279.1	4776.6	6697.7	8807.8	11101.1	13259.8	15411.8	17345.2	19144.8	20756.8
-35°	2537.0	2757.8	3132.1	4474.9	5973.4	7818.2	9607.3	11428.6	13048.6	14558.8	15849.1
-37.5°	2359.0	2520.8	2712.3	2913.4	3879.0	4981.1	6367.5	7797.0	9071.1	10362.8	11438.5
-40°	2160.4	2327.5	2472.5	2622.2	2798.8	3003.2	3943.5	4791.8	5662.4	6670.7	7508.5
-42.5°	1961.3	2108.8	2260.8	2393.2	2513.1	2642.0	2781.2	2906.6	3344.5	3939.9	4433.7
-45°	1807.7	1913.9	2023.9	2157.7	2282.5	2387.4	2481.4	2565.8	2664.0	2751.6	2824.1
-47.5°	1680.7	1755.5	1843.7	1931.9	2023.2	2130.1	2227.3	2313.0	2381.5	2440.2	2488.7
-50°	1546.3	1629.7	1695.6	1757.3	1828.2	1898.2	1961.8	2029.9	2100.4	2160.8	2210.6
-52.5°	1386.1	1471.6	1550.1	1620.1	1673.1	1721.8	1766.0	1816.0	1861.9	1901.2	1933.5
-55°	1176.5	1277.2	1371.9	1445.3	1508.1	1565.6	1615.7	1651.9	1683.6	1710.6	1732.9
-57.5°	957.9	1054.3	1143.9	1225.2	1300.5	1369.5	1423.4	1466.0	1503.2	1535.0	1561.2
-60°	744.0	823.2	905.5	982.8	1054.3	1119.7	1176.5	1227.2	1271.4	1309.2	1340.2
-62.5°	546.1	613.3	681.0	744.0	802.2	858.4	912.0	959.7	1001.3	1036.8	1066.0
-65°	376.2	430.3	480.9	528.1	572.0	619.9	663.1	701.6	735.1	763.7	787.2
-67.5°	250.3	284.0	315.5	344.9	379.6	415.1	447.0	475.5	500.3	521.4	538.8
-70°	160.7	178.2	194.6	213.7	237.6	259.4	279.0	296.5	311.7	324.6	335.3
-72.5°	97.0	108.0	119.2	132.5	144.7	155.8	165.8	174.7	182.4	189.0	194.4
-75°	49.5	55.0	63.7	71.9	79.4	86.2	92.4	97.8	102.6	106.6	110.0
-77.5°	28.3	31.5	34.5	37.3	39.8	42.1	44.2	46.1	47.7	49.1	50.2
-80°	20.2	21.0	21.7	22.4	23.0	23.6	24.1	24.6	25.0	25.3	25.6
-82.5°	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.4	17.6
-85°	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.3	9.5	9.6	9.7
-87.5°	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8	4.8
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.7	4.7
85°	9.7	9.8	9.8	9.8	9.8	9.8	9.7	9.7	9.6	9.5	9.3
82.5°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.2	16.9
80°	25.8	26.0	26.1	26.1	26.1	26.0	25.8	25.6	25.3	25.0	24.6
77.5°	51.1	51.7	52.1	52.2	52.1	51.7	51.1	50.2	49.1	47.7	46.1
75°	112.6	114.4	115.5	115.9	115.5	114.4	112.6	110.0	106.6	102.6	97.8
72.5°	198.6	201.7	203.5	204.1	203.5	201.7	198.6	194.4	189.0	182.4	174.7
70°	343.6	349.5	353.1	354.3	353.1	349.5	343.6	335.3	324.6	311.7	296.5
67.5°	552.3	562.0	567.9	569.8	567.9	562.0	552.3	538.8	521.4	500.3	475.5
65°	805.6	818.8	826.7	829.3	826.7	818.8	805.6	787.2	763.7	735.1	701.6
62.5°	1088.8	1105.2	1115.0	1118.3	1115.0	1105.2	1088.8	1066.0	1036.8	1001.3	959.7
60°	1364.5	1381.9	1392.4	1395.9	1392.4	1381.9	1364.5	1340.2	1309.2	1271.4	1227.2
57.5°	1581.6	1596.3	1605.2	1608.1	1605.2	1596.3	1581.6	1561.2	1535.0	1503.2	1466.0
55°	1750.4	1762.9	1770.5	1773.0	1770.5	1762.9	1750.4	1732.9	1710.6	1683.6	1651.9
52.5°	1958.9	1977.1	1988.0	1991.7	1988.0	1977.1	1958.9	1933.5	1901.2	1861.9	1816.0
50°	2249.7	2277.7	2294.7	2300.3	2294.7	2277.7	2249.7	2210.6	2160.8	2100.4	2029.9
47.5°	2526.8	2554.2	2570.7	2576.2	2570.7	2554.2	2526.8	2488.7	2440.2	2381.5	2313.0
45°	2881.0	2922.0	2946.7	2955.0	2946.7	2922.0	2881.0	2824.1	2751.6	2664.0	2565.8
42.5°	4822.1	5101.8	5270.7	5327.1	5270.7	5101.8	4822.1	4433.7	3939.9	3344.5	2906.6
40°	8168.5	8644.5	8932.0	9028.1	8932.0	8644.5	8168.5	7508.5	6670.7	5662.4	4791.8
37.5°	12287.4	12900.5	13271.3	13395.3	13271.3	12900.5	12287.4	11438.5	10362.8	9071.1	7797.0
35°	16869.7	17608.2	18055.2	18204.9	18055.2	17608.2	16869.7	15849.1	14558.8	13048.6	11428.6
32.5°	22035.4	22962.6	23524.8	23713.2	23524.8	22962.6	22035.4	20756.8	19144.8	17345.2	15411.8
30°	27971.0	29157.2	29877.7	30119.4	29877.7	29157.2	27971.0	26339.9	24290.4	22113.7	19712.5
27.5°	35033.9	36631.6	37604.5	37931.3	37604.5	36631.6	35033.9	32844.4	30107.6	27448.5	24417.0
25°	45133.1	47917.3	49618.1	50190.3	49618.1	47917.3	45133.1	41334.6	37087.5	33542.4	29632.1
22.5°	59367.3	63698.9	66356.3	67252.3	66356.3	63698.9	59367.3	53491.9	47344.0	41247.5	35674.3
20°	77940.2	84342.9	88293.7	89630.0	88293.7	84342.9	77940.2	69322.3	60779.0	51458.2	43634.6
17.5°	101404.5	110927.3	116851.7	118864.6	116851.7	110927.3	101404.5	88934.4	77174.7	64557.0	53239.8
15°	126112.3	134970.2	140547.4	142455.3	140547.4	134970.2	126112.3	113440.3	96257.1	79868.1	64557.0
12.5°	146128.2	154845.7	160195.0	161968.7	160195.0	154845.7	146128.2	133416.1	117613.7	96257.1	77174.7
10°	162135.6	171007.0	176689.4	178698.5	176689.4	171007.0	162135.6	149697.1	133416.1	113440.3	88934.4
7.5°	174798.7	184811.9	190876.6	193035.0	190876.6	184811.9	174798.7	162135.6	146128.2	126112.3	101404.5
5°	184811.9	195353.7	202532.0	205058.0	202532.0	195353.7	184811.9	171007.0	154845.7	134970.2	110927.3
2.5°	190876.6	202532.0	209466.3	211458.6	209466.3	202532.0	190876.6	176689.4	160195.0	140547.4	116851.7
0°	193035.0	205058.0	211458.6	212365.4	211458.6	205058.0	193035.0	178698.5	161968.7	142455.3	118864.6
-2.5°	190876.6	202532.0	209466.3	211458.6	209466.3	202532.0	190876.6	176689.4	160195.0	140547.4	116851.7
-5°	184811.9	195353.7	202532.0	205058.0	202532.0	195353.7	184811.9	171007.0	154845.7	134970.2	110927.3
-7.5°	174798.7	184811.9	190876.6	193035.0	190876.6	184811.9	174798.7	162135.6	146128.2	126112.3	101404.5
-10°	162135.6	171007.0	176689.4	178698.5	176689.4	171007.0	162135.6	149697.1	133416.1	113440.3	88934.4
-12.5°	146128.2	154845.7	160195.0	161968.7	160195.0	154845.7	146128.2	133416.1	117613.7	96257.1	77174.7
-15°	126112.3	134970.2	140547.4	142455.3	140547.4	134970.2	126112.3	113440.3	96257.1	79868.1	64557.0
-17.5°	101404.5	110927.3	116851.7	118864.6	116851.7	110927.3	101404.5	88934.4	77174.7	64557.0	53239.8
-20°	77940.2	84342.9	88293.7	89630.0	88293.7	84342.9	77940.2	69322.3	60779.0	51458.2	43634.6



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	59367.3	63698.9	66356.3	67252.3	66356.3	63698.9	59367.3	53491.9	47344.0	41247.5	35674.3
-25°	45133.1	47917.3	49618.1	50190.3	49618.1	47917.3	45133.1	41334.6	37087.5	33542.4	29632.1
-27.5°	35033.9	36631.6	37604.5	37931.3	37604.5	36631.6	35033.9	32844.4	30107.6	27448.5	24417.0
-30°	27971.0	29157.2	29877.7	30119.4	29877.7	29157.2	27971.0	26339.9	24290.4	22113.7	19712.5
-32.5°	22035.4	22962.6	23524.8	23713.2	23524.8	22962.6	22035.4	20756.8	19144.8	17345.2	15411.8
-35°	16869.7	17608.2	18055.2	18204.9	18055.2	17608.2	16869.7	15849.1	14558.8	13048.6	11428.6
-37.5°	12287.4	12900.5	13271.3	13395.3	13271.3	12900.5	12287.4	11438.5	10362.8	9071.1	7797.0
-40°	8168.5	8644.5	8932.0	9028.1	8932.0	8644.5	8168.5	7508.5	6670.7	5662.4	4791.8
-42.5°	4822.1	5101.8	5270.7	5327.1	5270.7	5101.8	4822.1	4433.7	3939.9	3344.5	2906.6
-45°	2881.0	2922.0	2946.7	2955.0	2946.7	2922.0	2881.0	2824.1	2751.6	2664.0	2565.8
-47.5°	2526.8	2554.2	2570.7	2576.2	2570.7	2554.2	2526.8	2488.7	2440.2	2381.5	2313.0
-50°	2249.7	2277.7	2294.7	2300.3	2294.7	2277.7	2249.7	2210.6	2160.8	2100.4	2029.9
-52.5°	1958.9	1977.1	1988.0	1991.7	1988.0	1977.1	1958.9	1933.5	1901.2	1861.9	1816.0
-55°	1750.4	1762.9	1770.5	1773.0	1770.5	1762.9	1750.4	1732.9	1710.6	1683.6	1651.9
-57.5°	1581.6	1596.3	1605.2	1608.1	1605.2	1596.3	1581.6	1561.2	1535.0	1503.2	1466.0
-60°	1364.5	1381.9	1392.4	1395.9	1392.4	1381.9	1364.5	1340.2	1309.2	1271.4	1227.2
-62.5°	1088.8	1105.2	1115.0	1118.3	1115.0	1105.2	1088.8	1066.0	1036.8	1001.3	959.7
-65°	805.6	818.8	826.7	829.3	826.7	818.8	805.6	787.2	763.7	735.1	701.6
-67.5°	552.3	562.0	567.9	569.8	567.9	562.0	552.3	538.8	521.4	500.3	475.5
-70°	343.6	349.5	353.1	354.3	353.1	349.5	343.6	335.3	324.6	311.7	296.5
-72.5°	198.6	201.7	203.5	204.1	203.5	201.7	198.6	194.4	189.0	182.4	174.7
-75°	112.6	114.4	115.5	115.9	115.5	114.4	112.6	110.0	106.6	102.6	97.8
-77.5°	51.1	51.7	52.1	52.2	52.1	51.7	51.1	50.2	49.1	47.7	46.1
-80°	25.8	26.0	26.1	26.1	26.1	26.0	25.8	25.6	25.3	25.0	24.6
-82.5°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.2	16.9
-85°	9.7	9.8	9.8	9.8	9.8	9.8	9.7	9.7	9.6	9.5	9.3
-87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.7	4.7
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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°	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.6	3.5
85°	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.5	7.2	6.9
82.5°	16.5	16.1	15.7	15.2	14.7	14.1	13.5	12.9	12.2	11.5	10.8
80°	24.1	23.6	23.0	22.4	21.7	21.0	20.2	19.4	18.5	17.5	16.5
77.5°	44.2	42.1	39.8	37.3	34.5	31.5	28.3	25.7	24.6	23.5	22.2
75°	92.4	86.2	79.4	71.9	63.7	55.0	49.5	45.4	41.1	36.5	31.8
72.5°	165.8	155.8	144.7	132.5	119.2	108.0	97.0	85.4	73.0	60.1	49.9
70°	279.0	259.4	237.6	213.7	194.6	178.2	160.7	142.2	122.6	105.9	90.3
67.5°	447.0	415.1	379.6	344.9	315.5	284.0	250.3	214.6	188.1	164.9	140.6
65°	663.1	619.9	572.0	528.1	480.9	430.3	376.2	329.7	287.6	243.4	200.1
62.5°	912.0	858.4	802.2	744.0	681.0	613.3	546.1	482.7	415.9	348.5	297.6
60°	1176.5	1119.7	1054.3	982.8	905.5	823.2	744.0	660.2	572.0	495.0	415.1
57.5°	1423.4	1369.5	1300.5	1225.2	1143.9	1054.3	957.9	856.0	757.2	656.7	555.1
55°	1615.7	1565.6	1508.1	1445.3	1371.9	1277.2	1176.5	1068.4	952.4	831.2	718.0
52.5°	1766.0	1721.8	1673.1	1620.1	1550.1	1471.6	1386.1	1271.4	1151.3	1022.2	886.7
50°	1961.8	1898.2	1828.2	1757.3	1695.6	1629.7	1546.3	1452.0	1340.2	1205.9	1064.4
47.5°	2227.3	2130.1	2023.2	1931.9	1843.7	1755.5	1680.7	1600.5	1494.9	1381.9	1233.4
45°	2481.4	2387.4	2282.5	2157.7	2023.9	1913.9	1807.7	1715.2	1627.7	1516.6	1395.9
42.5°	2781.2	2642.0	2513.1	2393.2	2260.8	2108.8	1961.3	1842.8	1732.6	1636.3	1516.6
40°	3943.5	3003.2	2798.8	2622.2	2472.5	2327.5	2160.4	1985.3	1854.5	1732.6	1627.7
37.5°	6367.5	4981.1	3879.0	2913.4	2712.3	2520.8	2359.0	2177.7	1985.3	1842.8	1715.2
35°	9607.3	7818.2	5973.4	4474.9	3132.1	2757.8	2537.0	2359.0	2160.4	1961.3	1807.7
32.5°	13259.8	11101.1	8807.8	6697.7	4776.6	3279.1	2757.8	2520.8	2327.5	2108.8	1913.9
30°	17182.7	14626.5	12015.4	9360.3	6941.3	4776.6	3132.1	2712.3	2472.5	2260.8	2023.9
27.5°	21425.7	18279.6	15328.0	12323.4	9360.3	6697.7	4474.9	2913.4	2622.2	2393.2	2157.7
25°	25998.1	22298.9	18699.7	15328.0	12015.4	8807.8	5973.4	3879.0	2798.8	2513.1	2282.5
22.5°	30887.6	26532.7	22298.9	18279.6	14626.5	11101.1	7818.2	4981.1	3003.2	2642.0	2387.4
20°	36397.4	30887.6	25998.1	21425.7	17182.7	13259.8	9607.3	6367.5	3943.5	2781.2	2481.4
17.5°	43634.6	35674.3	29632.1	24417.0	19712.5	15411.8	11428.6	7797.0	4791.8	2906.6	2565.8
15°	51458.2	41247.5	33542.4	27448.5	22113.7	17345.2	13048.6	9071.1	5662.4	3344.5	2664.0
12.5°	60779.0	47344.0	37087.5	30107.6	24290.4	19144.8	14558.8	10362.8	6670.7	3939.9	2751.6
10°	69322.3	53491.9	41334.6	32844.4	26339.9	20756.8	15849.1	11438.5	7508.5	4433.7	2824.1
7.5°	77940.2	59367.3	45133.1	35033.9	27971.0	22035.4	16869.7	12287.4	8168.5	4822.1	2881.0
5°	84342.9	63698.9	47917.3	36631.6	29157.2	22962.6	17608.2	12900.5	8644.5	5101.8	2922.0
2.5°	88293.7	66356.3	49618.1	37604.5	29877.7	23524.8	18055.2	13271.3	8932.0	5270.7	2946.7
0°	89630.0	67252.3	50190.3	37931.3	30119.4	23713.2	18204.9	13395.3	9028.1	5327.1	2955.0
-2.5°	88293.7	66356.3	49618.1	37604.5	29877.7	23524.8	18055.2	13271.3	8932.0	5270.7	2946.7
-5°	84342.9	63698.9	47917.3	36631.6	29157.2	22962.6	17608.2	12900.5	8644.5	5101.8	2922.0
-7.5°	77940.2	59367.3	45133.1	35033.9	27971.0	22035.4	16869.7	12287.4	8168.5	4822.1	2881.0
-10°	69322.3	53491.9	41334.6	32844.4	26339.9	20756.8	15849.1	11438.5	7508.5	4433.7	2824.1
-12.5°	60779.0	47344.0	37087.5	30107.6	24290.4	19144.8	14558.8	10362.8	6670.7	3939.9	2751.6
-15°	51458.2	41247.5	33542.4	27448.5	22113.7	17345.2	13048.6	9071.1	5662.4	3344.5	2664.0
-17.5°	43634.6	35674.3	29632.1	24417.0	19712.5	15411.8	11428.6	7797.0	4791.8	2906.6	2565.8
-20°	36397.4	30887.6	25998.1	21425.7	17182.7	13259.8	9607.3	6367.5	3943.5	2781.2	2481.4



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	30887.6	26532.7	22298.9	18279.6	14626.5	11101.1	7818.2	4981.1	3003.2	2642.0	2387.4
-25°	25998.1	22298.9	18699.7	15328.0	12015.4	8807.8	5973.4	3879.0	2798.8	2513.1	2282.5
-27.5°	21425.7	18279.6	15328.0	12323.4	9360.3	6697.7	4474.9	2913.4	2622.2	2393.2	2157.7
-30°	17182.7	14626.5	12015.4	9360.3	6941.3	4776.6	3132.1	2712.3	2472.5	2260.8	2023.9
-32.5°	13259.8	11101.1	8807.8	6697.7	4776.6	3279.1	2757.8	2520.8	2327.5	2108.8	1913.9
-35°	9607.3	7818.2	5973.4	4474.9	3132.1	2757.8	2537.0	2359.0	2160.4	1961.3	1807.7
-37.5°	6367.5	4981.1	3879.0	2913.4	2712.3	2520.8	2359.0	2177.7	1985.3	1842.8	1715.2
-40°	3943.5	3003.2	2798.8	2622.2	2472.5	2327.5	2160.4	1985.3	1854.5	1732.6	1627.7
-42.5°	2781.2	2642.0	2513.1	2393.2	2260.8	2108.8	1961.3	1842.8	1732.6	1636.3	1516.6
-45°	2481.4	2387.4	2282.5	2157.7	2023.9	1913.9	1807.7	1715.2	1627.7	1516.6	1395.9
-47.5°	2227.3	2130.1	2023.2	1931.9	1843.7	1755.5	1680.7	1600.5	1494.9	1381.9	1233.4
-50°	1961.8	1898.2	1828.2	1757.3	1695.6	1629.7	1546.3	1452.0	1340.2	1205.9	1064.4
-52.5°	1766.0	1721.8	1673.1	1620.1	1550.1	1471.6	1386.1	1271.4	1151.3	1022.2	886.7
-55°	1615.7	1565.6	1508.1	1445.3	1371.9	1277.2	1176.5	1068.4	952.4	831.2	718.0
-57.5°	1423.4	1369.5	1300.5	1225.2	1143.9	1054.3	957.9	856.0	757.2	656.7	555.1
-60°	1176.5	1119.7	1054.3	982.8	905.5	823.2	744.0	660.2	572.0	495.0	415.1
-62.5°	912.0	858.4	802.2	744.0	681.0	613.3	546.1	482.7	415.9	348.5	297.6
-65°	663.1	619.9	572.0	528.1	480.9	430.3	376.2	329.7	287.6	243.4	200.1
-67.5°	447.0	415.1	379.6	344.9	315.5	284.0	250.3	214.6	188.1	164.9	140.6
-70°	279.0	259.4	237.6	213.7	194.6	178.2	160.7	142.2	122.6	105.9	90.3
-72.5°	165.8	155.8	144.7	132.5	119.2	108.0	97.0	85.4	73.0	60.1	49.9
-75°	92.4	86.2	79.4	71.9	63.7	55.0	49.5	45.4	41.1	36.5	31.8
-77.5°	44.2	42.1	39.8	37.3	34.5	31.5	28.3	25.7	24.6	23.5	22.2
-80°	24.1	23.6	23.0	22.4	21.7	21.0	20.2	19.4	18.5	17.5	16.5
-82.5°	16.5	16.1	15.7	15.2	14.7	14.1	13.5	12.9	12.2	11.5	10.8
-85°	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.5	7.2	6.9
-87.5°	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.6	3.5
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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°	3.3	3.1	3.0	2.8	2.6	2.4	2.3	2.1	1.9	1.7	1.5
85°	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.7	3.3	2.9
82.5°	10.0	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.6	5.0	4.4
80°	15.5	14.4	13.3	12.1	11.0	9.8	9.0	8.2	7.5	6.7	5.9
77.5°	20.9	19.6	18.2	16.8	15.3	13.8	12.2	10.6	9.3	8.3	7.3
75°	26.8	24.7	23.1	21.4	19.6	17.8	15.9	14.0	12.0	10.1	8.7
72.5°	44.1	38.1	31.8	25.9	23.8	21.7	19.6	17.3	15.1	12.8	10.4
70°	74.1	57.3	47.2	39.8	32.3	25.6	23.1	20.6	18.1	15.4	12.8
67.5°	115.5	96.5	77.0	56.8	45.6	36.9	28.0	23.9	21.0	18.1	15.1
65°	172.0	142.8	113.6	91.1	68.1	49.1	39.2	29.1	23.9	20.6	17.3
62.5°	244.8	195.8	162.7	128.5	99.7	73.8	50.2	39.2	28.0	23.1	19.6
60°	338.8	279.0	217.4	174.7	136.5	102.6	73.8	49.1	36.9	25.6	21.7
57.5°	465.0	371.9	299.8	231.1	178.7	136.5	99.7	68.1	45.6	32.3	23.8
55°	600.9	495.2	391.9	306.7	231.1	174.7	128.5	91.1	56.8	39.8	25.9
52.5°	755.1	625.4	505.3	391.9	299.8	217.4	162.7	113.6	77.0	47.2	31.8
50°	914.6	767.5	625.4	495.2	371.9	279.0	195.8	142.8	96.5	57.3	38.1
47.5°	1078.6	914.6	755.1	600.9	465.0	338.8	244.8	172.0	115.5	74.1	44.1
45°	1233.4	1064.4	886.7	718.0	555.1	415.1	297.6	200.1	140.6	90.3	49.9
42.5°	1381.9	1205.9	1022.2	831.2	656.7	495.0	348.5	243.4	164.9	105.9	60.1
40°	1494.9	1340.2	1151.3	952.4	757.2	572.0	415.9	287.6	188.1	122.6	73.0
37.5°	1600.5	1452.0	1271.4	1068.4	856.0	660.2	482.7	329.7	214.6	142.2	85.4
35°	1680.7	1546.3	1386.1	1176.5	957.9	744.0	546.1	376.2	250.3	160.7	97.0
32.5°	1755.5	1629.7	1471.6	1277.2	1054.3	823.2	613.3	430.3	284.0	178.2	108.0
30°	1843.7	1695.6	1550.1	1371.9	1143.9	905.5	681.0	480.9	315.5	194.6	119.2
27.5°	1931.9	1757.3	1620.1	1445.3	1225.2	982.8	744.0	528.1	344.9	213.7	132.5
25°	2023.2	1828.2	1673.1	1508.1	1300.5	1054.3	802.2	572.0	379.6	237.6	144.7
22.5°	2130.1	1898.2	1721.8	1565.6	1369.5	1119.7	858.4	619.9	415.1	259.4	155.8
20°	2227.3	1961.8	1766.0	1615.7	1423.4	1176.5	912.0	663.1	447.0	279.0	165.8
17.5°	2313.0	2029.9	1816.0	1651.9	1466.0	1227.2	959.7	701.6	475.5	296.5	174.7
15°	2381.5	2100.4	1861.9	1683.6	1503.2	1271.4	1001.3	735.1	500.3	311.7	182.4
12.5°	2440.2	2160.8	1901.2	1710.6	1535.0	1309.2	1036.8	763.7	521.4	324.6	189.0
10°	2488.7	2210.6	1933.5	1732.9	1561.2	1340.2	1066.0	787.2	538.8	335.3	194.4
7.5°	2526.8	2249.7	1958.9	1750.4	1581.6	1364.5	1088.8	805.6	552.3	343.6	198.6
5°	2554.2	2277.7	1977.1	1762.9	1596.3	1381.9	1105.2	818.8	562.0	349.5	201.7
2.5°	2570.7	2294.7	1988.0	1770.5	1605.2	1392.4	1115.0	826.7	567.9	353.1	203.5
0°	2576.2	2300.3	1991.7	1773.0	1608.1	1395.9	1118.3	829.3	569.8	354.3	204.1
-2.5°	2570.7	2294.7	1988.0	1770.5	1605.2	1392.4	1115.0	826.7	567.9	353.1	203.5
-5°	2554.2	2277.7	1977.1	1762.9	1596.3	1381.9	1105.2	818.8	562.0	349.5	201.7
-7.5°	2526.8	2249.7	1958.9	1750.4	1581.6	1364.5	1088.8	805.6	552.3	343.6	198.6
-10°	2488.7	2210.6	1933.5	1732.9	1561.2	1340.2	1066.0	787.2	538.8	335.3	194.4
-12.5°	2440.2	2160.8	1901.2	1710.6	1535.0	1309.2	1036.8	763.7	521.4	324.6	189.0
-15°	2381.5	2100.4	1861.9	1683.6	1503.2	1271.4	1001.3	735.1	500.3	311.7	182.4
-17.5°	2313.0	2029.9	1816.0	1651.9	1466.0	1227.2	959.7	701.6	475.5	296.5	174.7
-20°	2227.3	1961.8	1766.0	1615.7	1423.4	1176.5	912.0	663.1	447.0	279.0	165.8



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2130.1	1898.2	1721.8	1565.6	1369.5	1119.7	858.4	619.9	415.1	259.4	155.8
-25°	2023.2	1828.2	1673.1	1508.1	1300.5	1054.3	802.2	572.0	379.6	237.6	144.7
-27.5°	1931.9	1757.3	1620.1	1445.3	1225.2	982.8	744.0	528.1	344.9	213.7	132.5
-30°	1843.7	1695.6	1550.1	1371.9	1143.9	905.5	681.0	480.9	315.5	194.6	119.2
-32.5°	1755.5	1629.7	1471.6	1277.2	1054.3	823.2	613.3	430.3	284.0	178.2	108.0
-35°	1680.7	1546.3	1386.1	1176.5	957.9	744.0	546.1	376.2	250.3	160.7	97.0
-37.5°	1600.5	1452.0	1271.4	1068.4	856.0	660.2	482.7	329.7	214.6	142.2	85.4
-40°	1494.9	1340.2	1151.3	952.4	757.2	572.0	415.9	287.6	188.1	122.6	73.0
-42.5°	1381.9	1205.9	1022.2	831.2	656.7	495.0	348.5	243.4	164.9	105.9	60.1
-45°	1233.4	1064.4	886.7	718.0	555.1	415.1	297.6	200.1	140.6	90.3	49.9
-47.5°	1078.6	914.6	755.1	600.9	465.0	338.8	244.8	172.0	115.5	74.1	44.1
-50°	914.6	767.5	625.4	495.2	371.9	279.0	195.8	142.8	96.5	57.3	38.1
-52.5°	755.1	625.4	505.3	391.9	299.8	217.4	162.7	113.6	77.0	47.2	31.8
-55°	600.9	495.2	391.9	306.7	231.1	174.7	128.5	91.1	56.8	39.8	25.9
-57.5°	465.0	371.9	299.8	231.1	178.7	136.5	99.7	68.1	45.6	32.3	23.8
-60°	338.8	279.0	217.4	174.7	136.5	102.6	73.8	49.1	36.9	25.6	21.7
-62.5°	244.8	195.8	162.7	128.5	99.7	73.8	50.2	39.2	28.0	23.1	19.6
-65°	172.0	142.8	113.6	91.1	68.1	49.1	39.2	29.1	23.9	20.6	17.3
-67.5°	115.5	96.5	77.0	56.8	45.6	36.9	28.0	23.9	21.0	18.1	15.1
-70°	74.1	57.3	47.2	39.8	32.3	25.6	23.1	20.6	18.1	15.4	12.8
-72.5°	44.1	38.1	31.8	25.9	23.8	21.7	19.6	17.3	15.1	12.8	10.4
-75°	26.8	24.7	23.1	21.4	19.6	17.8	15.9	14.0	12.0	10.1	8.7
-77.5°	20.9	19.6	18.2	16.8	15.3	13.8	12.2	10.6	9.3	8.3	7.3
-80°	15.5	14.4	13.3	12.1	11.0	9.8	9.0	8.2	7.5	6.7	5.9
-82.5°	10.0	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.6	5.0	4.4
-85°	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.7	3.3	2.9
-87.5°	3.3	3.1	3.0	2.8	2.6	2.4	2.3	2.1	1.9	1.7	1.5
-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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-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°	1.3	1.1	0.9	0.6	0.4	0.2	0.0
85°	2.5	2.1	1.7	1.3	0.9	0.4	0.0
82.5°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
80°	5.0	4.2	3.4	2.5	1.7	0.9	0.0
77.5°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
75°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
72.5°	8.7	7.3	5.9	4.4	2.9	1.5	0.0
70°	10.1	8.3	6.7	5.0	3.3	1.7	0.0
67.5°	12.0	9.3	7.5	5.6	3.7	1.9	0.0
65°	14.0	10.6	8.2	6.2	4.1	2.1	0.0
62.5°	15.9	12.2	9.0	6.8	4.5	2.3	0.0
60°	17.8	13.8	9.8	7.3	4.9	2.4	0.0
57.5°	19.6	15.3	11.0	7.9	5.3	2.6	0.0
55°	21.4	16.8	12.1	8.4	5.6	2.8	0.0
52.5°	23.1	18.2	13.3	8.9	6.0	3.0	0.0
50°	24.7	19.6	14.4	9.4	6.3	3.1	0.0
47.5°	26.8	20.9	15.5	10.0	6.6	3.3	0.0
45°	31.8	22.2	16.5	10.8	6.9	3.5	0.0
42.5°	36.5	23.5	17.5	11.5	7.2	3.6	0.0
40°	41.1	24.6	18.5	12.2	7.5	3.8	0.0
37.5°	45.4	25.7	19.4	12.9	7.8	3.9	0.0
35°	49.5	28.3	20.2	13.5	8.0	4.0	0.0
32.5°	55.0	31.5	21.0	14.1	8.3	4.1	0.0
30°	63.7	34.5	21.7	14.7	8.5	4.2	0.0
27.5°	71.9	37.3	22.4	15.2	8.7	4.3	0.0
25°	79.4	39.8	23.0	15.7	8.9	4.4	0.0
22.5°	86.2	42.1	23.6	16.1	9.1	4.5	0.0
20°	92.4	44.2	24.1	16.5	9.2	4.6	0.0
17.5°	97.8	46.1	24.6	16.9	9.3	4.7	0.0
15°	102.6	47.7	25.0	17.2	9.5	4.7	0.0
12.5°	106.6	49.1	25.3	17.4	9.6	4.8	0.0
10°	110.0	50.2	25.6	17.6	9.7	4.8	0.0
7.5°	112.6	51.1	25.8	17.8	9.7	4.9	0.0
5°	114.4	51.7	26.0	17.9	9.8	4.9	0.0
2.5°	115.5	52.1	26.1	18.0	9.8	4.9	0.0
0°	115.9	52.2	26.1	18.0	9.8	4.9	0.0
-2.5°	115.5	52.1	26.1	18.0	9.8	4.9	0.0
-5°	114.4	51.7	26.0	17.9	9.8	4.9	0.0
-7.5°	112.6	51.1	25.8	17.8	9.7	4.9	0.0
-10°	110.0	50.2	25.6	17.6	9.7	4.8	0.0
-12.5°	106.6	49.1	25.3	17.4	9.6	4.8	0.0
-15°	102.6	47.7	25.0	17.2	9.5	4.7	0.0
-17.5°	97.8	46.1	24.6	16.9	9.3	4.7	0.0
-20°	92.4	44.2	24.1	16.5	9.2	4.6	0.0



REPORT NUMBER: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	86.2	42.1	23.6	16.1	9.1	4.5	0.0
-25°	79.4	39.8	23.0	15.7	8.9	4.4	0.0
-27.5°	71.9	37.3	22.4	15.2	8.7	4.3	0.0
-30°	63.7	34.5	21.7	14.7	8.5	4.2	0.0
-32.5°	55.0	31.5	21.0	14.1	8.3	4.1	0.0
-35°	49.5	28.3	20.2	13.5	8.0	4.0	0.0
-37.5°	45.4	25.7	19.4	12.9	7.8	3.9	0.0
-40°	41.1	24.6	18.5	12.2	7.5	3.8	0.0
-42.5°	36.5	23.5	17.5	11.5	7.2	3.6	0.0
-45°	31.8	22.2	16.5	10.8	6.9	3.5	0.0
-47.5°	26.8	20.9	15.5	10.0	6.6	3.3	0.0
-50°	24.7	19.6	14.4	9.4	6.3	3.1	0.0
-52.5°	23.1	18.2	13.3	8.9	6.0	3.0	0.0
-55°	21.4	16.8	12.1	8.4	5.6	2.8	0.0
-57.5°	19.6	15.3	11.0	7.9	5.3	2.6	0.0
-60°	17.8	13.8	9.8	7.3	4.9	2.4	0.0
-62.5°	15.9	12.2	9.0	6.8	4.5	2.3	0.0
-65°	14.0	10.6	8.2	6.2	4.1	2.1	0.0
-67.5°	12.0	9.3	7.5	5.6	3.7	1.9	0.0
-70°	10.1	8.3	6.7	5.0	3.3	1.7	0.0
-72.5°	8.7	7.3	5.9	4.4	2.9	1.5	0.0
-75°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
-77.5°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
-80°	5.0	4.2	3.4	2.5	1.7	0.9	0.0
-82.5°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
-85°	2.5	2.1	1.7	1.3	0.9	0.4	0.0
-87.5°	1.3	1.1	0.9	0.6	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

