

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: P701460 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-4S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701460 (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-57-80-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

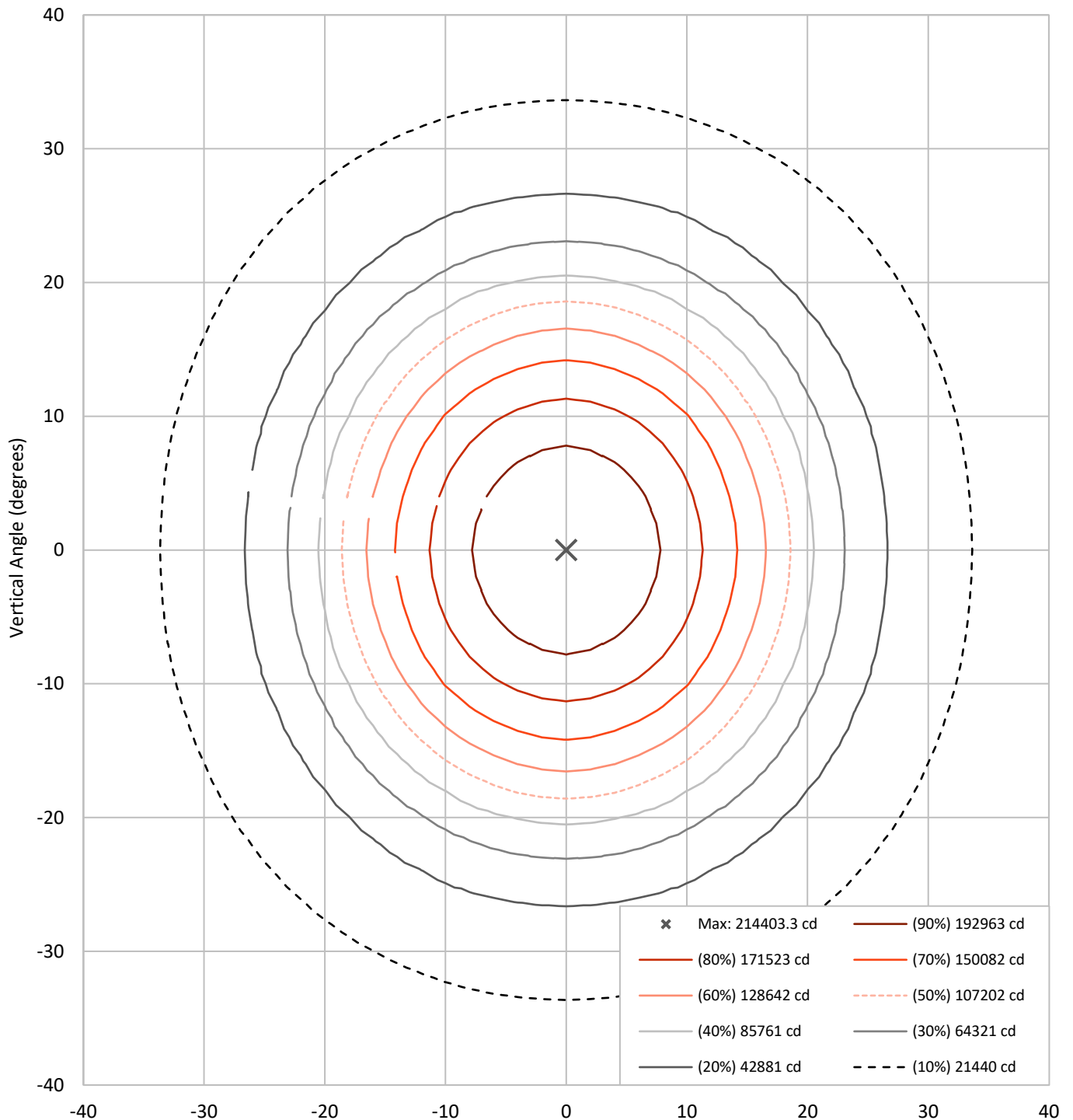
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	99013.4 lumens	Max Intensity:	214403.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.5 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:	51545.5 lumens	Field Lumens:	86587.8 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

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Iso-Candela Plot





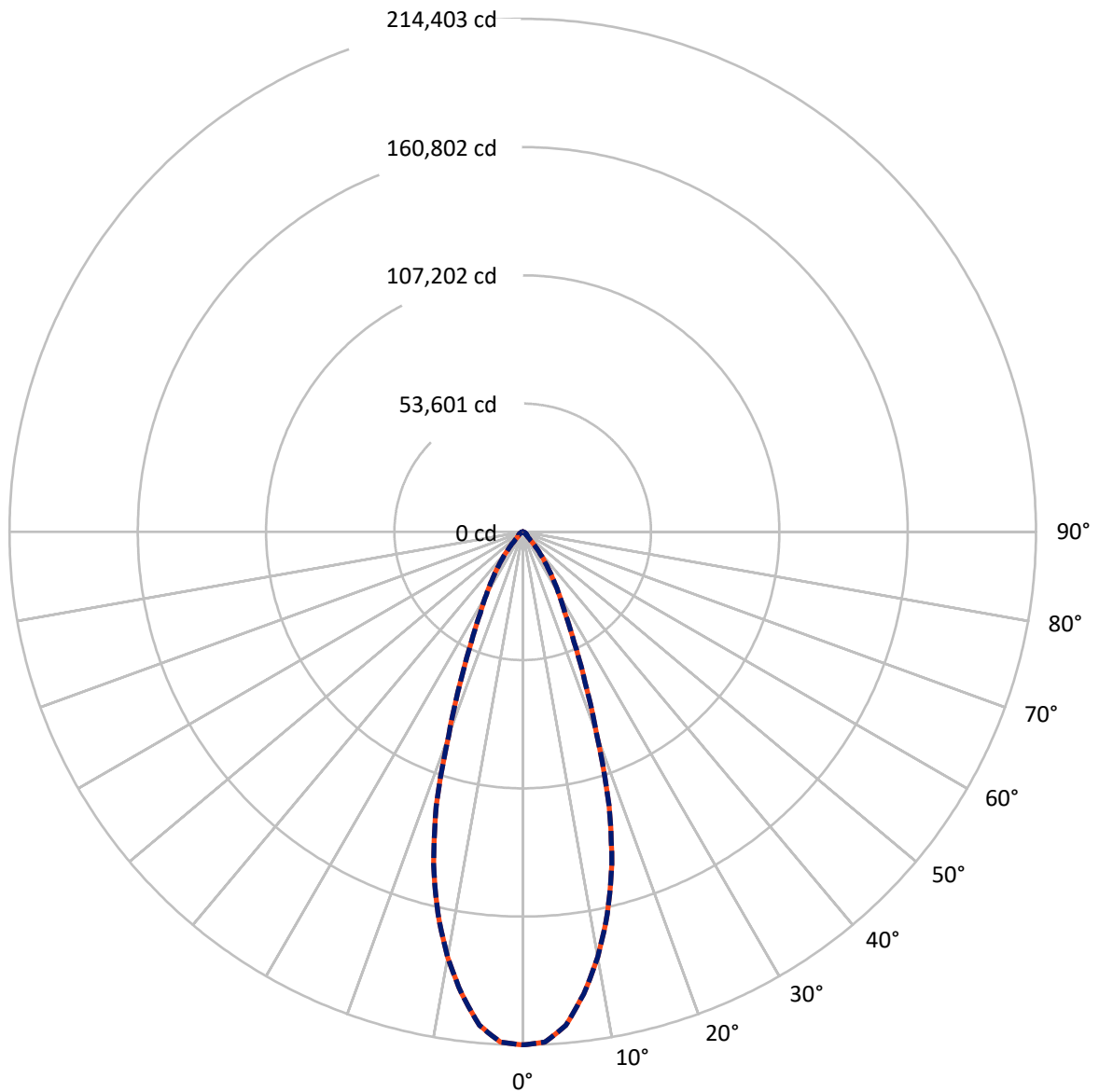
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Lumen Table

90																			
80	0.1	0.7		2.9		7.0		9.2		7.0		2.9		0.7	0.1				
70																			
60	0.3	0.5	1.8	4.9	10.3	16.7	22.4	25.5	25.5	22.4	16.7	10.3	4.9	1.8	0.5	0.3			
50		1.3	5.9	15.9	29.2	41.1	49.8	54.7	54.7	49.8	41.1	29.2	15.9	5.9	1.3				
40	1.0	3.0	13.0	29.7	46.1	64.0	92.0	121.3	121.3	92.0	64.0	46.1	29.7	13.0	3.0	1.0			
30		5.5	20.7	39.9	69.2	186.3	394.1	546.7	546.7	394.1	186.3	69.2	39.9	20.7	5.5				
20	2.0	8.1	26.3	50.2	169.6	529.9	1036.2	1540.9	1540.9	1036.2	529.9	169.6	50.2	26.3	8.1	2.0			
10		10.1	29.9	68.1	337.6	975.7	2416.3	3966.5	3966.5	2416.3	975.7	337.6	68.1	29.9	10.1				
0	2.5	11.2	31.8	87.8	454.3	1410.9	3854.4	5806.0	5806.0	3854.4	1410.9	454.3	87.8	31.8	11.2	2.5			
-10		11.2	31.8	87.8	454.3	1410.9	3854.4	5806.0	5806.0	3854.4	1410.9	454.3	87.8	31.8	11.2				
-20	2.0	10.1	29.9	68.1	337.6	975.7	2416.3	3966.5	3966.5	2416.3	975.7	337.6	68.1	29.9	10.1	2.0			
-30		8.1	26.3	50.2	169.6	529.9	1036.2	1540.9	1540.9	1036.2	529.9	169.6	50.2	26.3	8.1				
-40	1.0	5.5	20.7	39.9	69.2	186.3	394.1	546.7	546.7	394.1	186.3	69.2	39.9	20.7	5.5	1.0			
-50		3.0	13.0	29.7	46.1	64.0	92.0	121.3	121.3	92.0	64.0	46.1	29.7	13.0	3.0				
-60	0.3	1.3	5.9	15.9	29.2	41.1	49.8	54.7	54.7	49.8	41.1	29.2	15.9	5.9	1.3	0.3			
-70		0.5	1.8	4.9	10.3	16.7	22.4	25.5	25.5	22.4	16.7	10.3	4.9	1.8	0.5				
-80	0.1	0.7		2.9		7.0		9.2		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

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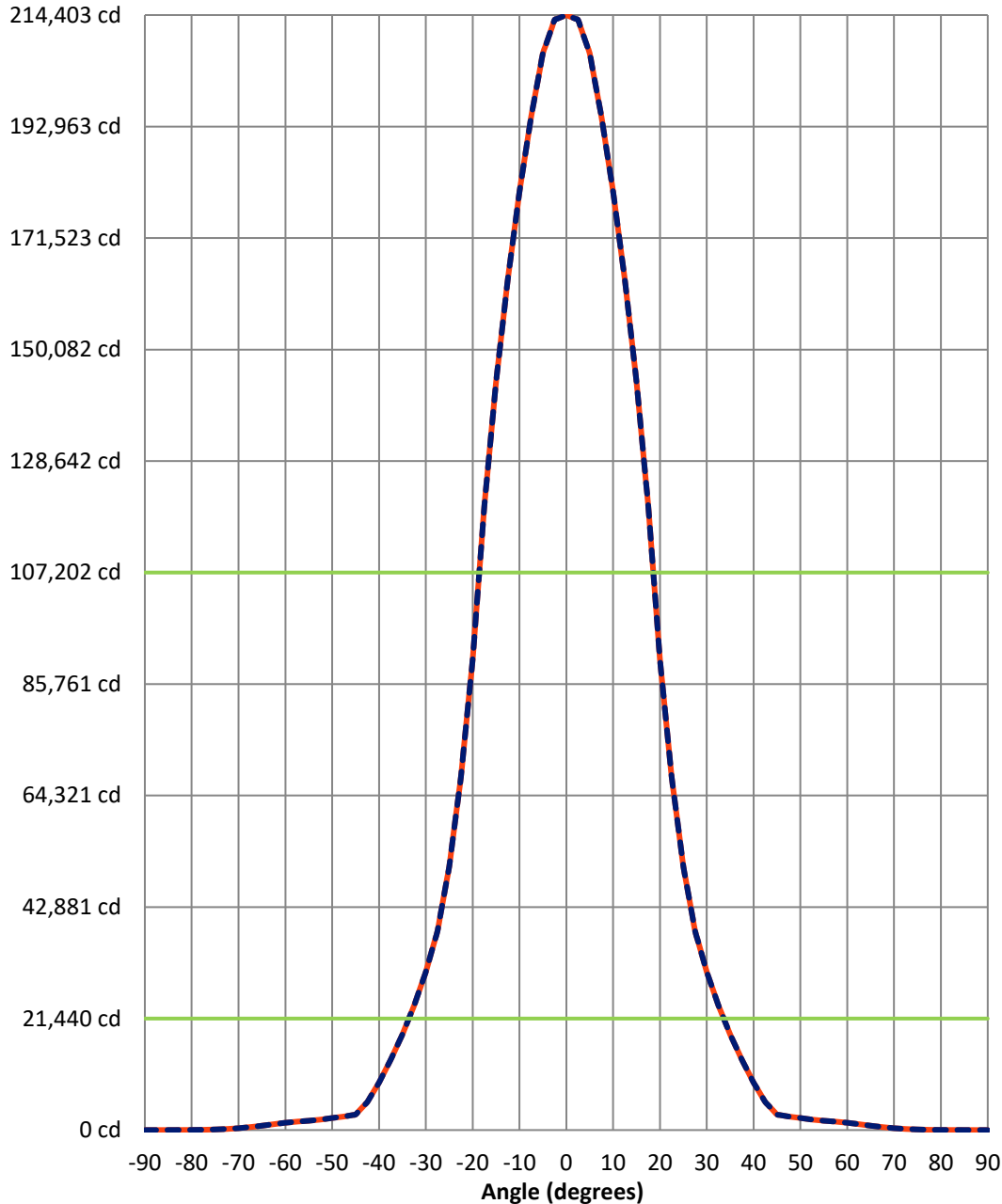
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 51545.5
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 86587.8
 Efficiency: 87.5%

Spill:
 Lumens: 12425.6
 Efficiency: 12.5%

- 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°	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	5.1	5.9	6.7	7.5	8.3
77.5°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.4	10.7
75°	0.0	1.3	2.5	3.8	5.1	6.3	7.6	8.8	10.2	12.1	14.1
72.5°	0.0	1.5	2.9	4.4	5.9	7.4	8.8	10.5	12.9	15.2	17.4
70°	0.0	1.7	3.3	5.0	6.7	8.4	10.2	12.9	15.5	18.2	20.8
67.5°	0.0	1.9	3.7	5.6	7.5	9.4	12.1	15.2	18.2	21.2	24.1
65°	0.0	2.1	4.1	6.2	8.3	10.7	14.1	17.4	20.8	24.1	29.4
62.5°	0.0	2.3	4.5	6.8	9.1	12.3	16.0	19.7	23.4	28.3	39.6
60°	0.0	2.4	4.9	7.4	9.9	13.9	17.9	21.9	25.9	37.2	49.5
57.5°	0.0	2.6	5.3	7.9	11.1	15.4	19.7	24.1	32.6	46.0	68.8
55°	0.0	2.8	5.6	8.5	12.2	16.9	21.5	26.2	40.2	57.3	92.0
52.5°	0.0	3.0	6.0	9.0	13.4	18.3	23.3	32.2	47.6	77.7	114.6
50°	0.0	3.1	6.3	9.5	14.5	19.8	25.0	38.4	57.8	97.5	144.2
47.5°	0.0	3.3	6.7	10.1	15.6	21.1	27.1	44.5	74.8	116.6	173.6
45°	0.0	3.5	7.0	10.9	16.6	22.4	32.1	50.3	91.2	141.9	202.0
42.5°	0.0	3.6	7.3	11.6	17.6	23.7	36.9	60.7	106.9	166.4	245.7
40°	0.0	3.8	7.6	12.3	18.6	24.9	41.5	73.7	123.7	189.9	290.3
37.5°	0.0	3.9	7.8	13.0	19.5	26.0	45.9	86.2	143.5	216.6	332.8
35°	0.0	4.0	8.1	13.6	20.4	28.6	50.0	98.0	162.2	252.7	379.8
32.5°	0.0	4.1	8.3	14.2	21.2	31.8	55.5	109.1	179.9	286.7	434.4
30°	0.0	4.2	8.6	14.8	21.9	34.9	64.3	120.4	196.4	318.5	485.5
27.5°	0.0	4.3	8.8	15.3	22.6	37.6	72.6	133.7	215.7	348.2	533.1
25°	0.0	4.4	9.0	15.8	23.3	40.2	80.1	146.0	239.8	383.2	577.4
22.5°	0.0	4.5	9.1	16.2	23.8	42.5	87.0	157.2	261.8	419.0	625.8
20°	0.0	4.6	9.3	16.6	24.4	44.7	93.2	167.3	281.7	451.3	669.4
17.5°	0.0	4.7	9.4	17.0	24.8	46.5	98.8	176.3	299.3	480.0	708.3
15°	0.0	4.7	9.6	17.3	25.3	48.2	103.6	184.1	314.7	505.0	742.2
12.5°	0.0	4.8	9.7	17.5	25.6	49.5	107.6	190.8	327.8	526.4	771.1
10°	0.0	4.8	9.7	17.7	25.9	50.7	111.0	196.2	338.5	543.9	794.8
7.5°	0.0	4.9	9.8	17.9	26.1	51.6	113.6	200.5	346.9	557.5	813.4
5°	0.0	4.9	9.9	18.0	26.3	52.2	115.5	203.6	352.9	567.3	826.6
2.5°	0.0	4.9	9.9	18.1	26.4	52.6	116.6	205.4	356.5	573.2	834.6
0°	0.0	4.9	9.9	18.1	26.4	52.6	116.6	205.4	356.5	573.2	834.6
-2.5°	0.0	4.9	9.9	18.1	26.4	52.6	116.6	205.4	356.5	573.2	834.6
-5°	0.0	4.9	9.9	18.0	26.3	52.2	115.5	203.6	352.9	567.3	826.6
-7.5°	0.0	4.9	9.8	17.9	26.1	51.6	113.6	200.5	346.9	557.5	813.4
-10°	0.0	4.8	9.7	17.7	25.9	50.7	111.0	196.2	338.5	543.9	794.8
-12.5°	0.0	4.8	9.7	17.5	25.6	49.5	107.6	190.8	327.8	526.4	771.1
-15°	0.0	4.7	9.6	17.3	25.3	48.2	103.6	184.1	314.7	505.0	742.2
-17.5°	0.0	4.7	9.4	17.0	24.8	46.5	98.8	176.3	299.3	480.0	708.3
-20°	0.0	4.6	9.3	16.6	24.4	44.7	93.2	167.3	281.7	451.3	669.4



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-4S-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	16.2	23.8	42.5	87.0	157.2	261.8	419.0	625.8
-25°	0.0	4.4	9.0	15.8	23.3	40.2	80.1	146.0	239.8	383.2	577.4
-27.5°	0.0	4.3	8.8	15.3	22.6	37.6	72.6	133.7	215.7	348.2	533.1
-30°	0.0	4.2	8.6	14.8	21.9	34.9	64.3	120.4	196.4	318.5	485.5
-32.5°	0.0	4.1	8.3	14.2	21.2	31.8	55.5	109.1	179.9	286.7	434.4
-35°	0.0	4.0	8.1	13.6	20.4	28.6	50.0	98.0	162.2	252.7	379.8
-37.5°	0.0	3.9	7.8	13.0	19.5	26.0	45.9	86.2	143.5	216.6	332.8
-40°	0.0	3.8	7.6	12.3	18.6	24.9	41.5	73.7	123.7	189.9	290.3
-42.5°	0.0	3.6	7.3	11.6	17.6	23.7	36.9	60.7	106.9	166.4	245.7
-45°	0.0	3.5	7.0	10.9	16.6	22.4	32.1	50.3	91.2	141.9	202.0
-47.5°	0.0	3.3	6.7	10.1	15.6	21.1	27.1	44.5	74.8	116.6	173.6
-50°	0.0	3.1	6.3	9.5	14.5	19.8	25.0	38.4	57.8	97.5	144.2
-52.5°	0.0	3.0	6.0	9.0	13.4	18.3	23.3	32.2	47.6	77.7	114.6
-55°	0.0	2.8	5.6	8.5	12.2	16.9	21.5	26.2	40.2	57.3	92.0
-57.5°	0.0	2.6	5.3	7.9	11.1	15.4	19.7	24.1	32.6	46.0	68.8
-60°	0.0	2.4	4.9	7.4	9.9	13.9	17.9	21.9	25.9	37.2	49.5
-62.5°	0.0	2.3	4.5	6.8	9.1	12.3	16.0	19.7	23.4	28.3	39.6
-65°	0.0	2.1	4.1	6.2	8.3	10.7	14.1	17.4	20.8	24.1	29.4
-67.5°	0.0	1.9	3.7	5.6	7.5	9.4	12.1	15.2	18.2	21.2	24.1
-70°	0.0	1.7	3.3	5.0	6.7	8.4	10.2	12.9	15.5	18.2	20.8
-72.5°	0.0	1.5	2.9	4.4	5.9	7.4	8.8	10.5	12.9	15.2	17.4
-75°	0.0	1.3	2.5	3.8	5.1	6.3	7.6	8.8	10.2	12.1	14.1
-77.5°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.4	10.7
-80°	0.0	0.9	1.7	2.5	3.4	4.2	5.1	5.9	6.7	7.5	8.3
-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



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-4S-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	6.7	7.0	7.3	7.6	7.8
82.5°	6.8	7.4	7.9	8.5	9.0	9.5	10.1	10.9	11.6	12.3	13.0
80°	9.1	9.9	11.1	12.2	13.4	14.5	15.6	16.6	17.6	18.6	19.5
77.5°	12.3	13.9	15.4	16.9	18.3	19.8	21.1	22.4	23.7	24.9	26.0
75°	16.0	17.9	19.7	21.5	23.3	25.0	27.1	32.1	36.9	41.5	45.9
72.5°	19.7	21.9	24.1	26.2	32.2	38.4	44.5	50.3	60.7	73.7	86.2
70°	23.4	25.9	32.6	40.2	47.6	57.8	74.8	91.2	106.9	123.7	143.5
67.5°	28.3	37.2	46.0	57.3	77.7	97.5	116.6	141.9	166.4	189.9	216.6
65°	39.6	49.5	68.8	92.0	114.6	144.2	173.6	202.0	245.7	290.3	332.8
62.5°	50.7	74.5	100.7	129.7	164.2	197.7	247.1	300.5	351.8	419.9	487.3
60°	74.5	103.6	137.8	176.3	219.4	281.7	342.1	419.0	499.7	577.4	666.5
57.5°	100.7	137.8	180.4	233.3	302.6	375.5	469.4	560.3	663.0	764.4	864.3
55°	129.7	176.3	233.3	309.6	395.7	499.9	606.6	724.9	839.3	961.5	1078.6
52.5°	164.2	219.4	302.6	395.7	510.1	631.4	762.3	895.3	1032.0	1162.3	1283.6
50°	197.7	281.7	375.5	499.9	631.4	774.9	923.4	1074.6	1217.4	1353.0	1465.9
47.5°	247.1	342.1	469.4	606.6	762.3	923.4	1088.9	1245.1	1395.1	1509.2	1615.8
45°	300.5	419.0	560.3	724.9	895.3	1074.6	1245.1	1409.2	1531.1	1643.3	1731.7
42.5°	351.8	499.7	663.0	839.3	1032.0	1217.4	1395.1	1531.1	1652.0	1749.2	1860.5
40°	419.9	577.4	764.4	961.5	1162.3	1353.0	1509.2	1643.3	1749.2	1872.3	2004.4
37.5°	487.3	666.5	864.3	1078.6	1283.6	1465.9	1615.8	1731.7	1860.5	2004.4	2198.6
35°	551.3	751.1	967.1	1187.8	1399.3	1561.1	1696.8	1825.0	1980.2	2181.2	2381.7
32.5°	619.2	831.2	1064.4	1289.3	1485.7	1645.4	1772.4	1932.3	2129.1	2349.8	2545.0
30°	687.5	914.2	1154.8	1385.0	1564.9	1711.8	1861.4	2043.5	2282.5	2496.3	2738.3
27.5°	751.1	992.2	1236.9	1459.1	1635.6	1774.1	1950.5	2178.4	2416.2	2647.4	2941.3
25°	809.9	1064.4	1312.9	1522.5	1689.1	1845.8	2042.7	2304.4	2537.2	2825.6	3916.2
22.5°	866.7	1130.4	1382.5	1580.6	1738.3	1916.5	2150.6	2410.3	2667.3	3031.9	5028.9
20°	920.8	1187.8	1437.0	1631.1	1782.9	1980.7	2248.7	2505.2	2807.9	3981.3	6428.6
17.5°	968.9	1238.9	1480.0	1667.7	1833.5	2049.5	2335.2	2590.4	2934.4	4837.8	7871.9
15°	1011.0	1283.6	1517.6	1699.7	1879.8	2120.6	2404.4	2689.5	3376.6	5716.7	9158.2
12.5°	1046.8	1321.7	1549.7	1727.0	1919.4	2181.6	2463.6	2777.9	3977.7	6734.7	10462.3
10°	1076.2	1353.0	1576.1	1749.6	1952.1	2231.9	2512.6	2851.1	4476.3	7580.6	11548.2
7.5°	1099.3	1377.5	1596.8	1767.2	1977.7	2271.3	2551.0	2908.6	4868.3	8246.9	12405.2
5°	1115.8	1395.1	1611.6	1779.8	1996.1	2299.6	2578.7	2950.0	5150.8	8727.5	13024.3
2.5°	1125.7	1405.7	1620.5	1787.5	2007.2	2316.7	2595.3	2975.0	5321.2	9017.7	13398.6
0°	1129.0	1409.2	1623.5	1790.0	2010.9	2322.4	2600.9	2983.3	5378.2	9114.8	13523.8
-2.5°	1125.7	1405.7	1620.5	1787.5	2007.2	2316.7	2595.3	2975.0	5321.2	9017.7	13398.6
-5°	1115.8	1395.1	1611.6	1779.8	1996.1	2299.6	2578.7	2950.0	5150.8	8727.5	13024.3
-7.5°	1099.3	1377.5	1596.8	1767.2	1977.7	2271.3	2551.0	2908.6	4868.3	8246.9	12405.2
-10°	1076.2	1353.0	1576.1	1749.6	1952.1	2231.9	2512.6	2851.1	4476.3	7580.6	11548.2
-12.5°	1046.8	1321.7	1549.7	1727.0	1919.4	2181.6	2463.6	2777.9	3977.7	6734.7	10462.3
-15°	1011.0	1283.6	1517.6	1699.7	1879.8	2120.6	2404.4	2689.5	3376.6	5716.7	9158.2
-17.5°	968.9	1238.9	1480.0	1667.7	1833.5	2049.5	2335.2	2590.4	2934.4	4837.8	7871.9
-20°	920.8	1187.8	1437.0	1631.1	1782.9	1980.7	2248.7	2505.2	2807.9	3981.3	6428.6



REPORT NUMBER: P701460 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	866.7	1130.4	1382.5	1580.6	1738.3	1916.5	2150.6	2410.3	2667.3	3031.9	5028.9
-25°	809.9	1064.4	1312.9	1522.5	1689.1	1845.8	2042.7	2304.4	2537.2	2825.6	3916.2
-27.5°	751.1	992.2	1236.9	1459.1	1635.6	1774.1	1950.5	2178.4	2416.2	2647.4	2941.3
-30°	687.5	914.2	1154.8	1385.0	1564.9	1711.8	1861.4	2043.5	2282.5	2496.3	2738.3
-32.5°	619.2	831.2	1064.4	1289.3	1485.7	1645.4	1772.4	1932.3	2129.1	2349.8	2545.0
-35°	551.3	751.1	967.1	1187.8	1399.3	1561.1	1696.8	1825.0	1980.2	2181.2	2381.7
-37.5°	487.3	666.5	864.3	1078.6	1283.6	1465.9	1615.8	1731.7	1860.5	2004.4	2198.6
-40°	419.9	577.4	764.4	961.5	1162.3	1353.0	1509.2	1643.3	1749.2	1872.3	2004.4
-42.5°	351.8	499.7	663.0	839.3	1032.0	1217.4	1395.1	1531.1	1652.0	1749.2	1860.5
-45°	300.5	419.0	560.3	724.9	895.3	1074.6	1245.1	1409.2	1531.1	1643.3	1731.7
-47.5°	247.1	342.1	469.4	606.6	762.3	923.4	1088.9	1245.1	1395.1	1509.2	1615.8
-50°	197.7	281.7	375.5	499.9	631.4	774.9	923.4	1074.6	1217.4	1353.0	1465.9
-52.5°	164.2	219.4	302.6	395.7	510.1	631.4	762.3	895.3	1032.0	1162.3	1283.6
-55°	129.7	176.3	233.3	309.6	395.7	499.9	606.6	724.9	839.3	961.5	1078.6
-57.5°	100.7	137.8	180.4	233.3	302.6	375.5	469.4	560.3	663.0	764.4	864.3
-60°	74.5	103.6	137.8	176.3	219.4	281.7	342.1	419.0	499.7	577.4	666.5
-62.5°	50.7	74.5	100.7	129.7	164.2	197.7	247.1	300.5	351.8	419.9	487.3
-65°	39.6	49.5	68.8	92.0	114.6	144.2	173.6	202.0	245.7	290.3	332.8
-67.5°	28.3	37.2	46.0	57.3	77.7	97.5	116.6	141.9	166.4	189.9	216.6
-70°	23.4	25.9	32.6	40.2	47.6	57.8	74.8	91.2	106.9	123.7	143.5
-72.5°	19.7	21.9	24.1	26.2	32.2	38.4	44.5	50.3	60.7	73.7	86.2
-75°	16.0	17.9	19.7	21.5	23.3	25.0	27.1	32.1	36.9	41.5	45.9
-77.5°	12.3	13.9	15.4	16.9	18.3	19.8	21.1	22.4	23.7	24.9	26.0
-80°	9.1	9.9	11.1	12.2	13.4	14.5	15.6	16.6	17.6	18.6	19.5
-82.5°	6.8	7.4	7.9	8.5	9.0	9.5	10.1	10.9	11.6	12.3	13.0
-85°	4.5	4.9	5.3	5.6	6.0	6.3	6.7	7.0	7.3	7.6	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



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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°	8.1	8.3	8.6	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.7
82.5°	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.3	17.5	17.7
80°	20.4	21.2	21.9	22.6	23.3	23.8	24.4	24.8	25.3	25.6	25.9
77.5°	28.6	31.8	34.9	37.6	40.2	42.5	44.7	46.5	48.2	49.5	50.7
75°	50.0	55.5	64.3	72.6	80.1	87.0	93.2	98.8	103.6	107.6	111.0
72.5°	98.0	109.1	120.4	133.7	146.0	157.2	167.3	176.3	184.1	190.8	196.2
70°	162.2	179.9	196.4	215.7	239.8	261.8	281.7	299.3	314.7	327.8	338.5
67.5°	252.7	286.7	318.5	348.2	383.2	419.0	451.3	480.0	505.0	526.4	543.9
65°	379.8	434.4	485.5	533.1	577.4	625.8	669.4	708.3	742.2	771.1	794.8
62.5°	551.3	619.2	687.5	751.1	809.9	866.7	920.8	968.9	1011.0	1046.8	1076.2
60°	751.1	831.2	914.2	992.2	1064.4	1130.4	1187.8	1238.9	1283.6	1321.7	1353.0
57.5°	967.1	1064.4	1154.8	1236.9	1312.9	1382.5	1437.0	1480.0	1517.6	1549.7	1576.1
55°	1187.8	1289.3	1385.0	1459.1	1522.5	1580.6	1631.1	1667.7	1699.7	1727.0	1749.6
52.5°	1399.3	1485.7	1564.9	1635.6	1689.1	1738.3	1782.9	1833.5	1879.8	1919.4	1952.1
50°	1561.1	1645.4	1711.8	1774.1	1845.8	1916.5	1980.7	2049.5	2120.6	2181.6	2231.9
47.5°	1696.8	1772.4	1861.4	1950.5	2042.7	2150.6	2248.7	2335.2	2404.4	2463.6	2512.6
45°	1825.0	1932.3	2043.5	2178.4	2304.4	2410.3	2505.2	2590.4	2689.5	2777.9	2851.1
42.5°	1980.2	2129.1	2282.5	2416.2	2537.2	2667.3	2807.9	2934.4	3376.6	3977.7	4476.3
40°	2181.2	2349.8	2496.3	2647.4	2825.6	3031.9	3981.3	4837.8	5716.7	6734.7	7580.6
37.5°	2381.7	2545.0	2738.3	2941.3	3916.2	5028.9	6428.6	7871.9	9158.2	10462.3	11548.2
35°	2561.4	2784.3	3162.1	4517.8	6030.8	7893.2	9699.5	11538.3	13173.8	14698.5	16001.1
32.5°	2784.3	3310.5	4822.4	6762.0	8892.4	11207.6	13387.0	15559.7	17511.5	19328.4	20955.9
30°	3162.1	4822.4	7007.9	9450.2	12130.7	14766.8	17347.5	19901.5	22325.9	24523.4	26592.6
27.5°	4517.8	6762.0	9450.2	12441.6	15475.1	18454.9	21631.2	24651.2	27711.8	30396.5	33159.6
25°	6030.8	8892.4	12130.7	15475.1	18879.0	22512.8	26247.5	29916.4	33864.3	37443.4	41731.3
22.5°	7893.2	11207.6	14766.8	18454.9	22512.8	26787.2	31184.0	36016.7	41643.3	47798.3	54005.2
20°	9699.5	13387.0	17347.5	21631.2	26247.5	31184.0	36746.7	44053.3	51952.0	61362.3	69987.5
17.5°	11538.3	15559.7	19901.5	24651.2	29916.4	36016.7	44053.3	53750.7	65176.5	77915.3	89787.8
15°	13173.8	17511.5	22325.9	27711.8	33864.3	41643.3	51952.0	65176.5	80634.6	97180.7	114528.8
12.5°	14698.5	19328.4	24523.4	30396.5	37443.4	47798.3	61362.3	77915.3	97180.7	118742.3	134696.4
10°	16001.1	20955.9	26592.6	33159.6	41731.3	54005.2	69987.5	89787.8	114528.8	134696.4	151133.6
7.5°	17031.5	22246.8	28239.4	35370.1	45566.2	59937.0	78688.2	102377.6	127322.5	147530.4	163691.5
5°	17777.0	23182.9	29436.9	36983.1	48377.1	64310.2	85152.2	111991.7	136265.4	156331.6	172648.0
2.5°	18228.4	23750.5	30164.4	37965.4	50094.2	66993.1	89140.9	117973.0	141896.1	161732.2	178385.0
0°	18379.5	23940.7	30408.4	38295.3	50671.9	67897.7	90490.1	120005.2	143822.3	163522.9	180413.3
-2.5°	18228.4	23750.5	30164.4	37965.4	50094.2	66993.1	89140.9	117973.0	141896.1	161732.2	178385.0
-5°	17777.0	23182.9	29436.9	36983.1	48377.1	64310.2	85152.2	111991.7	136265.4	156331.6	172648.0
-7.5°	17031.5	22246.8	28239.4	35370.1	45566.2	59937.0	78688.2	102377.6	127322.5	147530.4	163691.5
-10°	16001.1	20955.9	26592.6	33159.6	41731.3	54005.2	69987.5	89787.8	114528.8	134696.4	151133.6
-12.5°	14698.5	19328.4	24523.4	30396.5	37443.4	47798.3	61362.3	77915.3	97180.7	118742.3	134696.4
-15°	13173.8	17511.5	22325.9	27711.8	33864.3	41643.3	51952.0	65176.5	80634.6	97180.7	114528.8
-17.5°	11538.3	15559.7	19901.5	24651.2	29916.4	36016.7	44053.3	53750.7	65176.5	77915.3	89787.8
-20°	9699.5	13387.0	17347.5	21631.2	26247.5	31184.0	36746.7	44053.3	51952.0	61362.3	69987.5



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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°	7893.2	11207.6	14766.8	18454.9	22512.8	26787.2	31184.0	36016.7	41643.3	47798.3	54005.2
-25°	6030.8	8892.4	12130.7	15475.1	18879.0	22512.8	26247.5	29916.4	33864.3	37443.4	41731.3
-27.5°	4517.8	6762.0	9450.2	12441.6	15475.1	18454.9	21631.2	24651.2	27711.8	30396.5	33159.6
-30°	3162.1	4822.4	7007.9	9450.2	12130.7	14766.8	17347.5	19901.5	22325.9	24523.4	26592.6
-32.5°	2784.3	3310.5	4822.4	6762.0	8892.4	11207.6	13387.0	15559.7	17511.5	19328.4	20955.9
-35°	2561.4	2784.3	3162.1	4517.8	6030.8	7893.2	9699.5	11538.3	13173.8	14698.5	16001.1
-37.5°	2381.7	2545.0	2738.3	2941.3	3916.2	5028.9	6428.6	7871.9	9158.2	10462.3	11548.2
-40°	2181.2	2349.8	2496.3	2647.4	2825.6	3031.9	3981.3	4837.8	5716.7	6734.7	7580.6
-42.5°	1980.2	2129.1	2282.5	2416.2	2537.2	2667.3	2807.9	2934.4	3376.6	3977.7	4476.3
-45°	1825.0	1932.3	2043.5	2178.4	2304.4	2410.3	2505.2	2590.4	2689.5	2777.9	2851.1
-47.5°	1696.8	1772.4	1861.4	1950.5	2042.7	2150.6	2248.7	2335.2	2404.4	2463.6	2512.6
-50°	1561.1	1645.4	1711.8	1774.1	1845.8	1916.5	1980.7	2049.5	2120.6	2181.6	2231.9
-52.5°	1399.3	1485.7	1564.9	1635.6	1689.1	1738.3	1782.9	1833.5	1879.8	1919.4	1952.1
-55°	1187.8	1289.3	1385.0	1459.1	1522.5	1580.6	1631.1	1667.7	1699.7	1727.0	1749.6
-57.5°	967.1	1064.4	1154.8	1236.9	1312.9	1382.5	1437.0	1480.0	1517.6	1549.7	1576.1
-60°	751.1	831.2	914.2	992.2	1064.4	1130.4	1187.8	1238.9	1283.6	1321.7	1353.0
-62.5°	551.3	619.2	687.5	751.1	809.9	866.7	920.8	968.9	1011.0	1046.8	1076.2
-65°	379.8	434.4	485.5	533.1	577.4	625.8	669.4	708.3	742.2	771.1	794.8
-67.5°	252.7	286.7	318.5	348.2	383.2	419.0	451.3	480.0	505.0	526.4	543.9
-70°	162.2	179.9	196.4	215.7	239.8	261.8	281.7	299.3	314.7	327.8	338.5
-72.5°	98.0	109.1	120.4	133.7	146.0	157.2	167.3	176.3	184.1	190.8	196.2
-75°	50.0	55.5	64.3	72.6	80.1	87.0	93.2	98.8	103.6	107.6	111.0
-77.5°	28.6	31.8	34.9	37.6	40.2	42.5	44.7	46.5	48.2	49.5	50.7
-80°	20.4	21.2	21.9	22.6	23.3	23.8	24.4	24.8	25.3	25.6	25.9
-82.5°	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.3	17.5	17.7
-85°	8.1	8.3	8.6	8.8	9.0	9.1	9.3	9.4	9.6	9.7	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: P701460 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-4S-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°	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.7	9.7	9.6	9.4
82.5°	17.9	18.0	18.1	18.1	18.1	18.0	17.9	17.7	17.5	17.3	17.0
80°	26.1	26.3	26.4	26.4	26.4	26.3	26.1	25.9	25.6	25.3	24.8
77.5°	51.6	52.2	52.6	52.7	52.6	52.2	51.6	50.7	49.5	48.2	46.5
75°	113.6	115.5	116.6	117.0	116.6	115.5	113.6	111.0	107.6	103.6	98.8
72.5°	200.5	203.6	205.4	206.0	205.4	203.6	200.5	196.2	190.8	184.1	176.3
70°	346.9	352.9	356.5	357.7	356.5	352.9	346.9	338.5	327.8	314.7	299.3
67.5°	557.5	567.3	573.2	575.2	573.2	567.3	557.5	543.9	526.4	505.0	480.0
65°	813.4	826.6	834.6	837.3	834.6	826.6	813.4	794.8	771.1	742.2	708.3
62.5°	1099.3	1115.8	1125.7	1129.0	1125.7	1115.8	1099.3	1076.2	1046.8	1011.0	968.9
60°	1377.5	1395.1	1405.7	1409.2	1405.7	1395.1	1377.5	1353.0	1321.7	1283.6	1238.9
57.5°	1596.8	1611.6	1620.5	1623.5	1620.5	1611.6	1596.8	1576.1	1549.7	1517.6	1480.0
55°	1767.2	1779.8	1787.5	1790.0	1787.5	1779.8	1767.2	1749.6	1727.0	1699.7	1667.7
52.5°	1977.7	1996.1	2007.2	2010.9	2007.2	1996.1	1977.7	1952.1	1919.4	1879.8	1833.5
50°	2271.3	2299.6	2316.7	2322.4	2316.7	2299.6	2271.3	2231.9	2181.6	2120.6	2049.5
47.5°	2551.0	2578.7	2595.3	2600.9	2595.3	2578.7	2551.0	2512.6	2463.6	2404.4	2335.2
45°	2908.6	2950.0	2975.0	2983.3	2975.0	2950.0	2908.6	2851.1	2777.9	2689.5	2590.4
42.5°	4868.3	5150.8	5321.2	5378.2	5321.2	5150.8	4868.3	4476.3	3977.7	3376.6	2934.4
40°	8246.9	8727.5	9017.7	9114.8	9017.7	8727.5	8246.9	7580.6	6734.7	5716.7	4837.8
37.5°	12405.2	13024.3	13398.6	13523.8	13398.6	13024.3	12405.2	11548.2	10462.3	9158.2	7871.9
35°	17031.5	17777.0	18228.4	18379.5	18228.4	17777.0	17031.5	16001.1	14698.5	13173.8	11538.3
32.5°	22246.8	23182.9	23750.5	23940.7	23750.5	23182.9	22246.8	20955.9	19328.4	17511.5	15559.7
30°	28239.4	29436.9	30164.4	30408.4	30164.4	29436.9	28239.4	26592.6	24523.4	22325.9	19901.5
27.5°	35370.1	36983.1	37965.4	38295.3	37965.4	36983.1	35370.1	33159.6	30396.5	27711.8	24651.2
25°	45566.2	48377.1	50094.2	50671.9	50094.2	48377.1	45566.2	41731.3	37443.4	33864.3	29916.4
22.5°	59937.0	64310.2	66993.1	67897.7	66993.1	64310.2	59937.0	54005.2	47798.3	41643.3	36016.7
20°	78688.2	85152.2	89140.9	90490.1	89140.9	85152.2	78688.2	69987.5	61362.3	51952.0	44053.3
17.5°	102377.6	111991.7	117973.0	120005.2	117973.0	111991.7	102377.6	89787.8	77915.3	65176.5	53750.7
15°	127322.5	136265.4	141896.1	143822.3	141896.1	136265.4	127322.5	114528.8	97180.7	80634.6	65176.5
12.5°	147530.4	156331.6	161732.2	163522.9	161732.2	156331.6	147530.4	134696.4	118742.3	97180.7	77915.3
10°	163691.5	172648.0	178385.0	180413.3	178385.0	172648.0	163691.5	151133.6	134696.4	114528.8	89787.8
7.5°	176476.1	186585.3	192708.3	194887.3	192708.3	186585.3	176476.1	163691.5	147530.4	127322.5	102377.6
5°	186585.3	197228.3	204475.6	207025.8	204475.6	197228.3	186585.3	172648.0	156331.6	136265.4	111991.7
2.5°	192708.3	204475.6	211476.4	213487.7	211476.4	204475.6	192708.3	178385.0	161732.2	141896.1	117973.0
0°	194887.3	207025.8	213487.7	214403.3	213487.7	207025.8	194887.3	180413.3	163522.9	143822.3	120005.2
-2.5°	192708.3	204475.6	211476.4	213487.7	211476.4	204475.6	192708.3	178385.0	161732.2	141896.1	117973.0
-5°	186585.3	197228.3	204475.6	207025.8	204475.6	197228.3	186585.3	172648.0	156331.6	136265.4	111991.7
-7.5°	176476.1	186585.3	192708.3	194887.3	192708.3	186585.3	176476.1	163691.5	147530.4	127322.5	102377.6
-10°	163691.5	172648.0	178385.0	180413.3	178385.0	172648.0	163691.5	151133.6	134696.4	114528.8	89787.8
-12.5°	147530.4	156331.6	161732.2	163522.9	161732.2	156331.6	147530.4	134696.4	118742.3	97180.7	77915.3
-15°	127322.5	136265.4	141896.1	143822.3	141896.1	136265.4	127322.5	114528.8	97180.7	80634.6	65176.5
-17.5°	102377.6	111991.7	117973.0	120005.2	117973.0	111991.7	102377.6	89787.8	77915.3	65176.5	53750.7
-20°	78688.2	85152.2	89140.9	90490.1	89140.9	85152.2	78688.2	69987.5	61362.3	51952.0	44053.3



REPORT NUMBER: P701460 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	59937.0	64310.2	66993.1	67897.7	66993.1	64310.2	59937.0	54005.2	47798.3	41643.3	36016.7
-25°	45566.2	48377.1	50094.2	50671.9	50094.2	48377.1	45566.2	41731.3	37443.4	33864.3	29916.4
-27.5°	35370.1	36983.1	37965.4	38295.3	37965.4	36983.1	35370.1	33159.6	30396.5	27711.8	24651.2
-30°	28239.4	29436.9	30164.4	30408.4	30164.4	29436.9	28239.4	26592.6	24523.4	22325.9	19901.5
-32.5°	22246.8	23182.9	23750.5	23940.7	23750.5	23182.9	22246.8	20955.9	19328.4	17511.5	15559.7
-35°	17031.5	17777.0	18228.4	18379.5	18228.4	17777.0	17031.5	16001.1	14698.5	13173.8	11538.3
-37.5°	12405.2	13024.3	13398.6	13523.8	13398.6	13024.3	12405.2	11548.2	10462.3	9158.2	7871.9
-40°	8246.9	8727.5	9017.7	9114.8	9017.7	8727.5	8246.9	7580.6	6734.7	5716.7	4837.8
-42.5°	4868.3	5150.8	5321.2	5378.2	5321.2	5150.8	4868.3	4476.3	3977.7	3376.6	2934.4
-45°	2908.6	2950.0	2975.0	2983.3	2975.0	2950.0	2908.6	2851.1	2777.9	2689.5	2590.4
-47.5°	2551.0	2578.7	2595.3	2600.9	2595.3	2578.7	2551.0	2512.6	2463.6	2404.4	2335.2
-50°	2271.3	2299.6	2316.7	2322.4	2316.7	2299.6	2271.3	2231.9	2181.6	2120.6	2049.5
-52.5°	1977.7	1996.1	2007.2	2010.9	2007.2	1996.1	1977.7	1952.1	1919.4	1879.8	1833.5
-55°	1767.2	1779.8	1787.5	1790.0	1787.5	1779.8	1767.2	1749.6	1727.0	1699.7	1667.7
-57.5°	1596.8	1611.6	1620.5	1623.5	1620.5	1611.6	1596.8	1576.1	1549.7	1517.6	1480.0
-60°	1377.5	1395.1	1405.7	1409.2	1405.7	1395.1	1377.5	1353.0	1321.7	1283.6	1238.9
-62.5°	1099.3	1115.8	1125.7	1129.0	1125.7	1115.8	1099.3	1076.2	1046.8	1011.0	968.9
-65°	813.4	826.6	834.6	837.3	834.6	826.6	813.4	794.8	771.1	742.2	708.3
-67.5°	557.5	567.3	573.2	575.2	573.2	567.3	557.5	543.9	526.4	505.0	480.0
-70°	346.9	352.9	356.5	357.7	356.5	352.9	346.9	338.5	327.8	314.7	299.3
-72.5°	200.5	203.6	205.4	206.0	205.4	203.6	200.5	196.2	190.8	184.1	176.3
-75°	113.6	115.5	116.6	117.0	116.6	115.5	113.6	111.0	107.6	103.6	98.8
-77.5°	51.6	52.2	52.6	52.7	52.6	52.2	51.6	50.7	49.5	48.2	46.5
-80°	26.1	26.3	26.4	26.4	26.4	26.3	26.1	25.9	25.6	25.3	24.8
-82.5°	17.9	18.0	18.1	18.1	18.1	18.0	17.9	17.7	17.5	17.3	17.0
-85°	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.7	9.7	9.6	9.4
-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



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.6	3.5
85°	9.3	9.1	9.0	8.8	8.6	8.3	8.1	7.8	7.6	7.3	7.0
82.5°	16.6	16.2	15.8	15.3	14.8	14.2	13.6	13.0	12.3	11.6	10.9
80°	24.4	23.8	23.3	22.6	21.9	21.2	20.4	19.5	18.6	17.6	16.6
77.5°	44.7	42.5	40.2	37.6	34.9	31.8	28.6	26.0	24.9	23.7	22.4
75°	93.2	87.0	80.1	72.6	64.3	55.5	50.0	45.9	41.5	36.9	32.1
72.5°	167.3	157.2	146.0	133.7	120.4	109.1	98.0	86.2	73.7	60.7	50.3
70°	281.7	261.8	239.8	215.7	196.4	179.9	162.2	143.5	123.7	106.9	91.2
67.5°	451.3	419.0	383.2	348.2	318.5	286.7	252.7	216.6	189.9	166.4	141.9
65°	669.4	625.8	577.4	533.1	485.5	434.4	379.8	332.8	290.3	245.7	202.0
62.5°	920.8	866.7	809.9	751.1	687.5	619.2	551.3	487.3	419.9	351.8	300.5
60°	1187.8	1130.4	1064.4	992.2	914.2	831.2	751.1	666.5	577.4	499.7	419.0
57.5°	1437.0	1382.5	1312.9	1236.9	1154.8	1064.4	967.1	864.3	764.4	663.0	560.3
55°	1631.1	1580.6	1522.5	1459.1	1385.0	1289.3	1187.8	1078.6	961.5	839.3	724.9
52.5°	1782.9	1738.3	1689.1	1635.6	1564.9	1485.7	1399.3	1283.6	1162.3	1032.0	895.3
50°	1980.7	1916.5	1845.8	1774.1	1711.8	1645.4	1561.1	1465.9	1353.0	1217.4	1074.6
47.5°	2248.7	2150.6	2042.7	1950.5	1861.4	1772.4	1696.8	1615.8	1509.2	1395.1	1245.1
45°	2505.2	2410.3	2304.4	2178.4	2043.5	1932.3	1825.0	1731.7	1643.3	1531.1	1409.2
42.5°	2807.9	2667.3	2537.2	2416.2	2282.5	2129.1	1980.2	1860.5	1749.2	1652.0	1531.1
40°	3981.3	3031.9	2825.6	2647.4	2496.3	2349.8	2181.2	2004.4	1872.3	1749.2	1643.3
37.5°	6428.6	5028.9	3916.2	2941.3	2738.3	2545.0	2381.7	2198.6	2004.4	1860.5	1731.7
35°	9699.5	7893.2	6030.8	4517.8	3162.1	2784.3	2561.4	2381.7	2181.2	1980.2	1825.0
32.5°	13387.0	11207.6	8892.4	6762.0	4822.4	3310.5	2784.3	2545.0	2349.8	2129.1	1932.3
30°	17347.5	14766.8	12130.7	9450.2	7007.9	4822.4	3162.1	2738.3	2496.3	2282.5	2043.5
27.5°	21631.2	18454.9	15475.1	12441.6	9450.2	6762.0	4517.8	2941.3	2647.4	2416.2	2178.4
25°	26247.5	22512.8	18879.0	15475.1	12130.7	8892.4	6030.8	3916.2	2825.6	2537.2	2304.4
22.5°	31184.0	26787.2	22512.8	18454.9	14766.8	11207.6	7893.2	5028.9	3031.9	2667.3	2410.3
20°	36746.7	31184.0	26247.5	21631.2	17347.5	13387.0	9699.5	6428.6	3981.3	2807.9	2505.2
17.5°	44053.3	36016.7	29916.4	24651.2	19901.5	15559.7	11538.3	7871.9	4837.8	2934.4	2590.4
15°	51952.0	41643.3	33864.3	27711.8	22325.9	17511.5	13173.8	9158.2	5716.7	3376.6	2689.5
12.5°	61362.3	47798.3	37443.4	30396.5	24523.4	19328.4	14698.5	10462.3	6734.7	3977.7	2777.9
10°	69987.5	54005.2	41731.3	33159.6	26592.6	20955.9	16001.1	11548.2	7580.6	4476.3	2851.1
7.5°	78688.2	59937.0	45566.2	35370.1	28239.4	22246.8	17031.5	12405.2	8246.9	4868.3	2908.6
5°	85152.2	64310.2	48377.1	36983.1	29436.9	23182.9	17777.0	13024.3	8727.5	5150.8	2950.0
2.5°	89140.9	66993.1	50094.2	37965.4	30164.4	23750.5	18228.4	13398.6	9017.7	5321.2	2975.0
0°	90490.1	67897.7	50671.9	38295.3	30408.4	23940.7	18379.5	13523.8	9114.8	5378.2	2983.3
-2.5°	89140.9	66993.1	50094.2	37965.4	30164.4	23750.5	18228.4	13398.6	9017.7	5321.2	2975.0
-5°	85152.2	64310.2	48377.1	36983.1	29436.9	23182.9	17777.0	13024.3	8727.5	5150.8	2950.0
-7.5°	78688.2	59937.0	45566.2	35370.1	28239.4	22246.8	17031.5	12405.2	8246.9	4868.3	2908.6
-10°	69987.5	54005.2	41731.3	33159.6	26592.6	20955.9	16001.1	11548.2	7580.6	4476.3	2851.1
-12.5°	61362.3	47798.3	37443.4	30396.5	24523.4	19328.4	14698.5	10462.3	6734.7	3977.7	2777.9
-15°	51952.0	41643.3	33864.3	27711.8	22325.9	17511.5	13173.8	9158.2	5716.7	3376.6	2689.5
-17.5°	44053.3	36016.7	29916.4	24651.2	19901.5	15559.7	11538.3	7871.9	4837.8	2934.4	2590.4
-20°	36746.7	31184.0	26247.5	21631.2	17347.5	13387.0	9699.5	6428.6	3981.3	2807.9	2505.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	31184.0	26787.2	22512.8	18454.9	14766.8	11207.6	7893.2	5028.9	3031.9	2667.3	2410.3
-25°	26247.5	22512.8	18879.0	15475.1	12130.7	8892.4	6030.8	3916.2	2825.6	2537.2	2304.4
-27.5°	21631.2	18454.9	15475.1	12441.6	9450.2	6762.0	4517.8	2941.3	2647.4	2416.2	2178.4
-30°	17347.5	14766.8	12130.7	9450.2	7007.9	4822.4	3162.1	2738.3	2496.3	2282.5	2043.5
-32.5°	13387.0	11207.6	8892.4	6762.0	4822.4	3310.5	2784.3	2545.0	2349.8	2129.1	1932.3
-35°	9699.5	7893.2	6030.8	4517.8	3162.1	2784.3	2561.4	2381.7	2181.2	1980.2	1825.0
-37.5°	6428.6	5028.9	3916.2	2941.3	2738.3	2545.0	2381.7	2198.6	2004.4	1860.5	1731.7
-40°	3981.3	3031.9	2825.6	2647.4	2496.3	2349.8	2181.2	2004.4	1872.3	1749.2	1643.3
-42.5°	2807.9	2667.3	2537.2	2416.2	2282.5	2129.1	1980.2	1860.5	1749.2	1652.0	1531.1
-45°	2505.2	2410.3	2304.4	2178.4	2043.5	1932.3	1825.0	1731.7	1643.3	1531.1	1409.2
-47.5°	2248.7	2150.6	2042.7	1950.5	1861.4	1772.4	1696.8	1615.8	1509.2	1395.1	1245.1
-50°	1980.7	1916.5	1845.8	1774.1	1711.8	1645.4	1561.1	1465.9	1353.0	1217.4	1074.6
-52.5°	1782.9	1738.3	1689.1	1635.6	1564.9	1485.7	1399.3	1283.6	1162.3	1032.0	895.3
-55°	1631.1	1580.6	1522.5	1459.1	1385.0	1289.3	1187.8	1078.6	961.5	839.3	724.9
-57.5°	1437.0	1382.5	1312.9	1236.9	1154.8	1064.4	967.1	864.3	764.4	663.0	560.3
-60°	1187.8	1130.4	1064.4	992.2	914.2	831.2	751.1	666.5	577.4	499.7	419.0
-62.5°	920.8	866.7	809.9	751.1	687.5	619.2	551.3	487.3	419.9	351.8	300.5
-65°	669.4	625.8	577.4	533.1	485.5	434.4	379.8	332.8	290.3	245.7	202.0
-67.5°	451.3	419.0	383.2	348.2	318.5	286.7	252.7	216.6	189.9	166.4	141.9
-70°	281.7	261.8	239.8	215.7	196.4	179.9	162.2	143.5	123.7	106.9	91.2
-72.5°	167.3	157.2	146.0	133.7	120.4	109.1	98.0	86.2	73.7	60.7	50.3
-75°	93.2	87.0	80.1	72.6	64.3	55.5	50.0	45.9	41.5	36.9	32.1
-77.5°	44.7	42.5	40.2	37.6	34.9	31.8	28.6	26.0	24.9	23.7	22.4
-80°	24.4	23.8	23.3	22.6	21.9	21.2	20.4	19.5	18.6	17.6	16.6
-82.5°	16.6	16.2	15.8	15.3	14.8	14.2	13.6	13.0	12.3	11.6	10.9
-85°	9.3	9.1	9.0	8.8	8.6	8.3	8.1	7.8	7.6	7.3	7.0
-87.5°	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.6	3.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-4S-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°	6.7	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.7	3.3	2.9
82.5°	10.1	9.5	9.0	8.5	7.9	7.4	6.8	6.2	5.6	5.0	4.4
80°	15.6	14.5	13.4	12.2	11.1	9.9	9.1	8.3	7.5	6.7	5.9
77.5°	21.1	19.8	18.3	16.9	15.4	13.9	12.3	10.7	9.4	8.4	7.4
75°	27.1	25.0	23.3	21.5	19.7	17.9	16.0	14.1	12.1	10.2	8.8
72.5°	44.5	38.4	32.2	26.2	24.1	21.9	19.7	17.4	15.2	12.9	10.5
70°	74.8	57.8	47.6	40.2	32.6	25.9	23.4	20.8	18.2	15.5	12.9
67.5°	116.6	97.5	77.7	57.3	46.0	37.2	28.3	24.1	21.2	18.2	15.2
65°	173.6	144.2	114.6	92.0	68.8	49.5	39.6	29.4	24.1	20.8	17.4
62.5°	247.1	197.7	164.2	129.7	100.7	74.5	50.7	39.6	28.3	23.4	19.7
60°	342.1	281.7	219.4	176.3	137.8	103.6	74.5	49.5	37.2	25.9	21.9
57.5°	469.4	375.5	302.6	233.3	180.4	137.8	100.7	68.8	46.0	32.6	24.1
55°	606.6	499.9	395.7	309.6	233.3	176.3	129.7	92.0	57.3	40.2	26.2
52.5°	762.3	631.4	510.1	395.7	302.6	219.4	164.2	114.6	77.7	47.6	32.2
50°	923.4	774.9	631.4	499.9	375.5	281.7	197.7	144.2	97.5	57.8	38.4
47.5°	1088.9	923.4	762.3	606.6	469.4	342.1	247.1	173.6	116.6	74.8	44.5
45°	1245.1	1074.6	895.3	724.9	560.3	419.0	300.5	202.0	141.9	91.2	50.3
42.5°	1395.1	1217.4	1032.0	839.3	663.0	499.7	351.8	245.7	166.4	106.9	60.7
40°	1509.2	1353.0	1162.3	961.5	764.4	577.4	419.9	290.3	189.9	123.7	73.7
37.5°	1615.8	1465.9	1283.6	1078.6	864.3	666.5	487.3	332.8	216.6	143.5	86.2
35°	1696.8	1561.1	1399.3	1187.8	967.1	751.1	551.3	379.8	252.7	162.2	98.0
32.5°	1772.4	1645.4	1485.7	1289.3	1064.4	831.2	619.2	434.4	286.7	179.9	109.1
30°	1861.4	1711.8	1564.9	1385.0	1154.8	914.2	687.5	485.5	318.5	196.4	120.4
27.5°	1950.5	1774.1	1635.6	1459.1	1236.9	992.2	751.1	533.1	348.2	215.7	133.7
25°	2042.7	1845.8	1689.1	1522.5	1312.9	1064.4	809.9	577.4	383.2	239.8	146.0
22.5°	2150.6	1916.5	1738.3	1580.6	1382.5	1130.4	866.7	625.8	419.0	261.8	157.2
20°	2248.7	1980.7	1782.9	1631.1	1437.0	1187.8	920.8	669.4	451.3	281.7	167.3
17.5°	2335.2	2049.5	1833.5	1667.7	1480.0	1238.9	968.9	708.3	480.0	299.3	176.3
15°	2404.4	2120.6	1879.8	1699.7	1517.6	1283.6	1011.0	742.2	505.0	314.7	184.1
12.5°	2463.6	2181.6	1919.4	1727.0	1549.7	1321.7	1046.8	771.1	526.4	327.8	190.8
10°	2512.6	2231.9	1952.1	1749.6	1576.1	1353.0	1076.2	794.8	543.9	338.5	196.2
7.5°	2551.0	2271.3	1977.7	1767.2	1596.8	1377.5	1099.3	813.4	557.5	346.9	200.5
5°	2578.7	2299.6	1996.1	1779.8	1611.6	1395.1	1115.8	826.6	567.3	352.9	203.6
2.5°	2595.3	2316.7	2007.2	1787.5	1620.5	1405.7	1125.7	834.6	573.2	356.5	205.4
0°	2600.9	2322.4	2010.9	1790.0	1623.5	1409.2	1129.0	837.3	575.2	357.7	206.0
-2.5°	2595.3	2316.7	2007.2	1787.5	1620.5	1405.7	1125.7	834.6	573.2	356.5	205.4
-5°	2578.7	2299.6	1996.1	1779.8	1611.6	1395.1	1115.8	826.6	567.3	352.9	203.6
-7.5°	2551.0	2271.3	1977.7	1767.2	1596.8	1377.5	1099.3	813.4	557.5	346.9	200.5
-10°	2512.6	2231.9	1952.1	1749.6	1576.1	1353.0	1076.2	794.8	543.9	338.5	196.2
-12.5°	2463.6	2181.6	1919.4	1727.0	1549.7	1321.7	1046.8	771.1	526.4	327.8	190.8
-15°	2404.4	2120.6	1879.8	1699.7	1517.6	1283.6	1011.0	742.2	505.0	314.7	184.1
-17.5°	2335.2	2049.5	1833.5	1667.7	1480.0	1238.9	968.9	708.3	480.0	299.3	176.3
-20°	2248.7	1980.7	1782.9	1631.1	1437.0	1187.8	920.8	669.4	451.3	281.7	167.3



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2150.6	1916.5	1738.3	1580.6	1382.5	1130.4	866.7	625.8	419.0	261.8	157.2
-25°	2042.7	1845.8	1689.1	1522.5	1312.9	1064.4	809.9	577.4	383.2	239.8	146.0
-27.5°	1950.5	1774.1	1635.6	1459.1	1236.9	992.2	751.1	533.1	348.2	215.7	133.7
-30°	1861.4	1711.8	1564.9	1385.0	1154.8	914.2	687.5	485.5	318.5	196.4	120.4
-32.5°	1772.4	1645.4	1485.7	1289.3	1064.4	831.2	619.2	434.4	286.7	179.9	109.1
-35°	1696.8	1561.1	1399.3	1187.8	967.1	751.1	551.3	379.8	252.7	162.2	98.0
-37.5°	1615.8	1465.9	1283.6	1078.6	864.3	666.5	487.3	332.8	216.6	143.5	86.2
-40°	1509.2	1353.0	1162.3	961.5	764.4	577.4	419.9	290.3	189.9	123.7	73.7
-42.5°	1395.1	1217.4	1032.0	839.3	663.0	499.7	351.8	245.7	166.4	106.9	60.7
-45°	1245.1	1074.6	895.3	724.9	560.3	419.0	300.5	202.0	141.9	91.2	50.3
-47.5°	1088.9	923.4	762.3	606.6	469.4	342.1	247.1	173.6	116.6	74.8	44.5
-50°	923.4	774.9	631.4	499.9	375.5	281.7	197.7	144.2	97.5	57.8	38.4
-52.5°	762.3	631.4	510.1	395.7	302.6	219.4	164.2	114.6	77.7	47.6	32.2
-55°	606.6	499.9	395.7	309.6	233.3	176.3	129.7	92.0	57.3	40.2	26.2
-57.5°	469.4	375.5	302.6	233.3	180.4	137.8	100.7	68.8	46.0	32.6	24.1
-60°	342.1	281.7	219.4	176.3	137.8	103.6	74.5	49.5	37.2	25.9	21.9
-62.5°	247.1	197.7	164.2	129.7	100.7	74.5	50.7	39.6	28.3	23.4	19.7
-65°	173.6	144.2	114.6	92.0	68.8	49.5	39.6	29.4	24.1	20.8	17.4
-67.5°	116.6	97.5	77.7	57.3	46.0	37.2	28.3	24.1	21.2	18.2	15.2
-70°	74.8	57.8	47.6	40.2	32.6	25.9	23.4	20.8	18.2	15.5	12.9
-72.5°	44.5	38.4	32.2	26.2	24.1	21.9	19.7	17.4	15.2	12.9	10.5
-75°	27.1	25.0	23.3	21.5	19.7	17.9	16.0	14.1	12.1	10.2	8.8
-77.5°	21.1	19.8	18.3	16.9	15.4	13.9	12.3	10.7	9.4	8.4	7.4
-80°	15.6	14.5	13.4	12.2	11.1	9.9	9.1	8.3	7.5	6.7	5.9
-82.5°	10.1	9.5	9.0	8.5	7.9	7.4	6.8	6.2	5.6	5.0	4.4
-85°	6.7	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



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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°	5.1	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°	7.6	6.3	5.1	3.8	2.5	1.3	0.0
72.5°	8.8	7.4	5.9	4.4	2.9	1.5	0.0
70°	10.2	8.4	6.7	5.0	3.3	1.7	0.0
67.5°	12.1	9.4	7.5	5.6	3.7	1.9	0.0
65°	14.1	10.7	8.3	6.2	4.1	2.1	0.0
62.5°	16.0	12.3	9.1	6.8	4.5	2.3	0.0
60°	17.9	13.9	9.9	7.4	4.9	2.4	0.0
57.5°	19.7	15.4	11.1	7.9	5.3	2.6	0.0
55°	21.5	16.9	12.2	8.5	5.6	2.8	0.0
52.5°	23.3	18.3	13.4	9.0	6.0	3.0	0.0
50°	25.0	19.8	14.5	9.5	6.3	3.1	0.0
47.5°	27.1	21.1	15.6	10.1	6.7	3.3	0.0
45°	32.1	22.4	16.6	10.9	7.0	3.5	0.0
42.5°	36.9	23.7	17.6	11.6	7.3	3.6	0.0
40°	41.5	24.9	18.6	12.3	7.6	3.8	0.0
37.5°	45.9	26.0	19.5	13.0	7.8	3.9	0.0
35°	50.0	28.6	20.4	13.6	8.1	4.0	0.0
32.5°	55.5	31.8	21.2	14.2	8.3	4.1	0.0
30°	64.3	34.9	21.9	14.8	8.6	4.2	0.0
27.5°	72.6	37.6	22.6	15.3	8.8	4.3	0.0
25°	80.1	40.2	23.3	15.8	9.0	4.4	0.0
22.5°	87.0	42.5	23.8	16.2	9.1	4.5	0.0
20°	93.2	44.7	24.4	16.6	9.3	4.6	0.0
17.5°	98.8	46.5	24.8	17.0	9.4	4.7	0.0
15°	103.6	48.2	25.3	17.3	9.6	4.7	0.0
12.5°	107.6	49.5	25.6	17.5	9.7	4.8	0.0
10°	111.0	50.7	25.9	17.7	9.7	4.8	0.0
7.5°	113.6	51.6	26.1	17.9	9.8	4.9	0.0
5°	115.5	52.2	26.3	18.0	9.9	4.9	0.0
2.5°	116.6	52.6	26.4	18.1	9.9	4.9	0.0
0°	117.0	52.7	26.4	18.1	9.9	4.9	0.0
-2.5°	116.6	52.6	26.4	18.1	9.9	4.9	0.0
-5°	115.5	52.2	26.3	18.0	9.9	4.9	0.0
-7.5°	113.6	51.6	26.1	17.9	9.8	4.9	0.0
-10°	111.0	50.7	25.9	17.7	9.7	4.8	0.0
-12.5°	107.6	49.5	25.6	17.5	9.7	4.8	0.0
-15°	103.6	48.2	25.3	17.3	9.6	4.7	0.0
-17.5°	98.8	46.5	24.8	17.0	9.4	4.7	0.0
-20°	93.2	44.7	24.4	16.6	9.3	4.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	87.0	42.5	23.8	16.2	9.1	4.5	0.0
-25°	80.1	40.2	23.3	15.8	9.0	4.4	0.0
-27.5°	72.6	37.6	22.6	15.3	8.8	4.3	0.0
-30°	64.3	34.9	21.9	14.8	8.6	4.2	0.0
-32.5°	55.5	31.8	21.2	14.2	8.3	4.1	0.0
-35°	50.0	28.6	20.4	13.6	8.1	4.0	0.0
-37.5°	45.9	26.0	19.5	13.0	7.8	3.9	0.0
-40°	41.5	24.9	18.6	12.3	7.6	3.8	0.0
-42.5°	36.9	23.7	17.6	11.6	7.3	3.6	0.0
-45°	32.1	22.4	16.6	10.9	7.0	3.5	0.0
-47.5°	27.1	21.1	15.6	10.1	6.7	3.3	0.0
-50°	25.0	19.8	14.5	9.5	6.3	3.1	0.0
-52.5°	23.3	18.3	13.4	9.0	6.0	3.0	0.0
-55°	21.5	16.9	12.2	8.5	5.6	2.8	0.0
-57.5°	19.7	15.4	11.1	7.9	5.3	2.6	0.0
-60°	17.9	13.9	9.9	7.4	4.9	2.4	0.0
-62.5°	16.0	12.3	9.1	6.8	4.5	2.3	0.0
-65°	14.1	10.7	8.3	6.2	4.1	2.1	0.0
-67.5°	12.1	9.4	7.5	5.6	3.7	1.9	0.0
-70°	10.2	8.4	6.7	5.0	3.3	1.7	0.0
-72.5°	8.8	7.4	5.9	4.4	2.9	1.5	0.0
-75°	7.6	6.3	5.1	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°	5.1	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

