

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: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-70-5S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-70-5S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

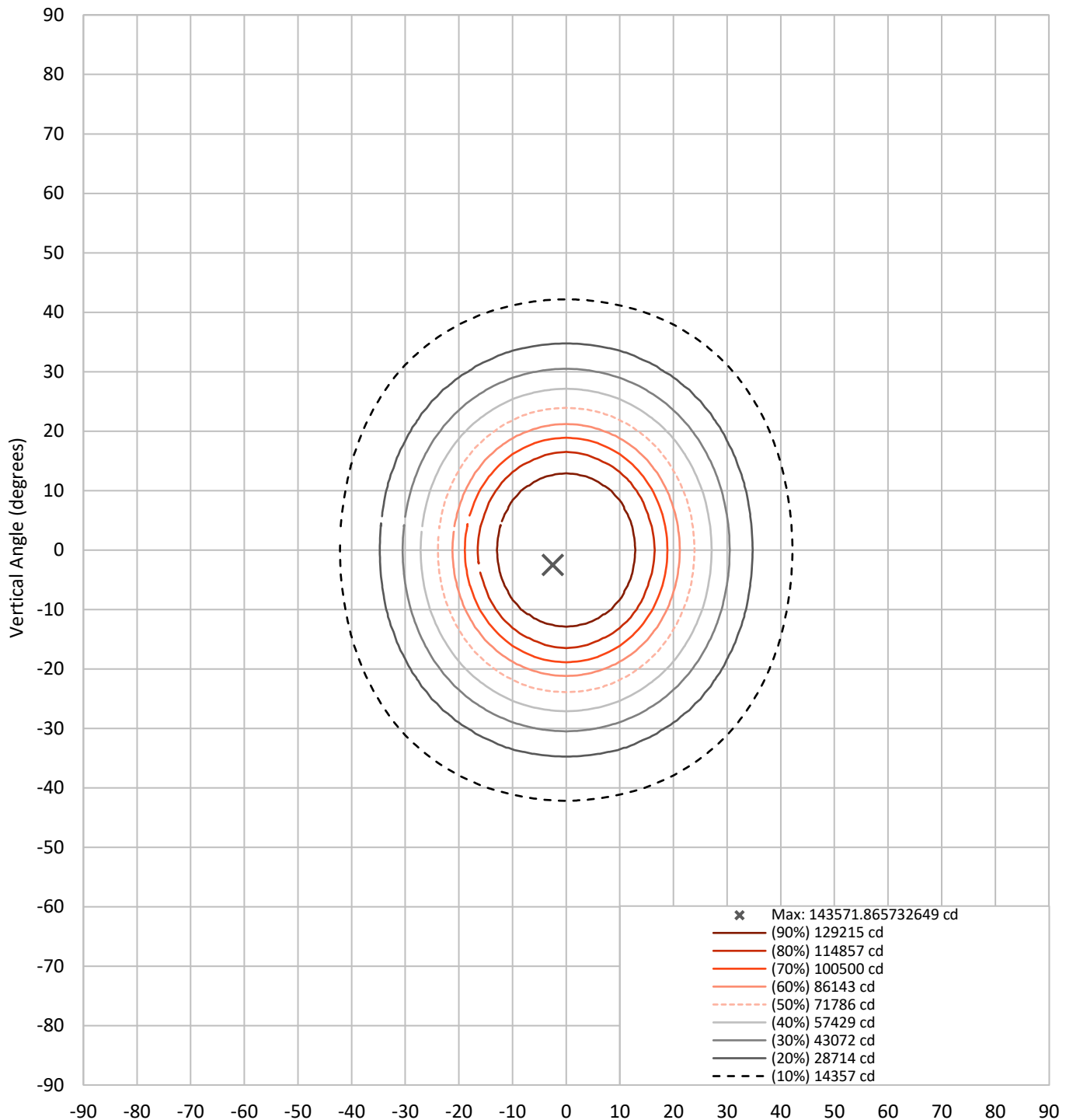
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	104942.3 lumens	Max Intensity:	143571.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	159.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	58872.6 lumens	Field Lumens:	97780.3 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

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





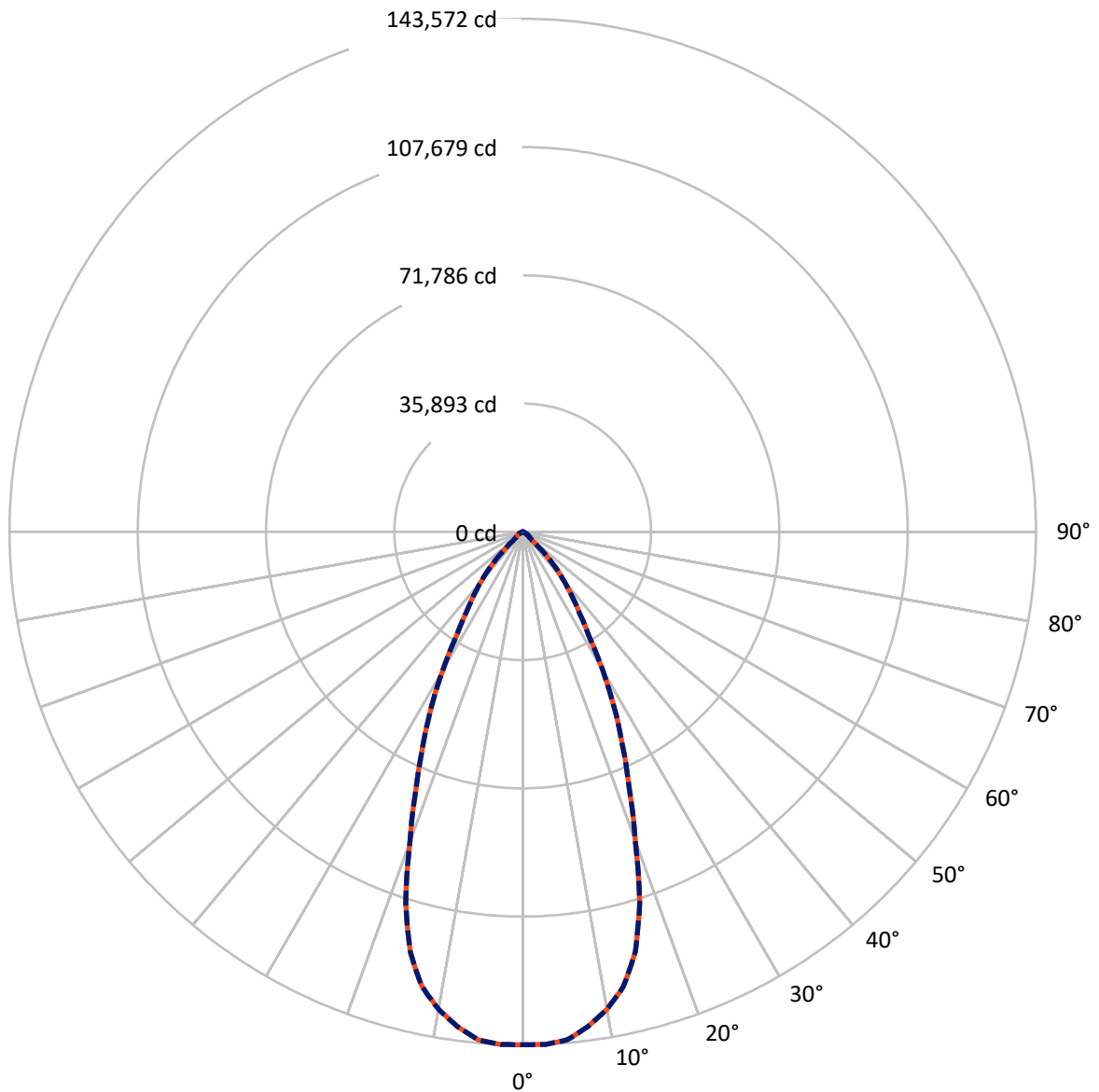
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Lumen Table

90																
80	0.1	1.0		3.3		7.1		9.0		7.1		3.3		1.0		0.1
70																
60	0.4	0.6	1.8	4.5	9.3	15.1	20.5	23.5	23.5	20.5	15.1	9.3	4.5	1.8	0.6	0.4
50		1.3	5.3	14.5	28.2	43.1	54.3	60.3	60.3	54.3	43.1	28.2	14.5	5.3	1.3	
40	1.1	2.8	11.8	30.0	51.8	93.4	190.2	267.8	267.8	190.2	93.4	51.8	30.0	11.8	2.8	1.1
30		5.0	20.0	44.8	130.3	394.3	665.7	852.9	852.9	665.7	394.3	130.3	44.8	20.0	5.0	
20	2.0	7.3	27.6	73.8	358.2	815.0	1458.6	1957.7	1957.7	1458.6	815.0	358.2	73.8	27.6	7.3	2.0
10		9.3	32.6	142.6	568.2	1372.7	2550.9	3475.3	3475.3	2550.9	1372.7	568.2	142.6	32.6	9.3	
0	2.4	10.4	35.1	194.9	707.0	1788.6	3374.1	4211.7	4211.7	3374.1	1788.6	707.0	194.9	35.1	10.4	2.4
-10		10.4	35.1	194.9	707.0	1788.6	3374.1	4211.7	4211.7	3374.1	1788.6	707.0	194.9	35.1	10.4	
-20	2.0	9.3	32.6	142.6	568.2	1372.7	2550.9	3475.3	3475.3	2550.9	1372.7	568.2	142.6	32.6	9.3	2.0
-30		7.3	27.6	73.8	358.2	815.0	1458.6	1957.7	1957.7	1458.6	815.0	358.2	73.8	27.6	7.3	
-40	1.1	5.0	20.0	44.8	130.3	394.3	665.7	852.9	852.9	665.7	394.3	130.3	44.8	20.0	5.0	1.1
-50		2.8	11.8	30.0	51.8	93.4	190.2	267.8	267.8	190.2	93.4	51.8	30.0	11.8	2.8	
-60	0.4	1.3	5.3	14.5	28.2	43.1	54.3	60.3	60.3	54.3	43.1	28.2	14.5	5.3	1.3	0.4
-70		0.6	1.8	4.5	9.3	15.1	20.5	23.5	23.5	20.5	15.1	9.3	4.5	1.8	0.6	
-80																
-90	0.1	1.0		3.3		7.1		9.0		7.1		3.3		1.0		0.1

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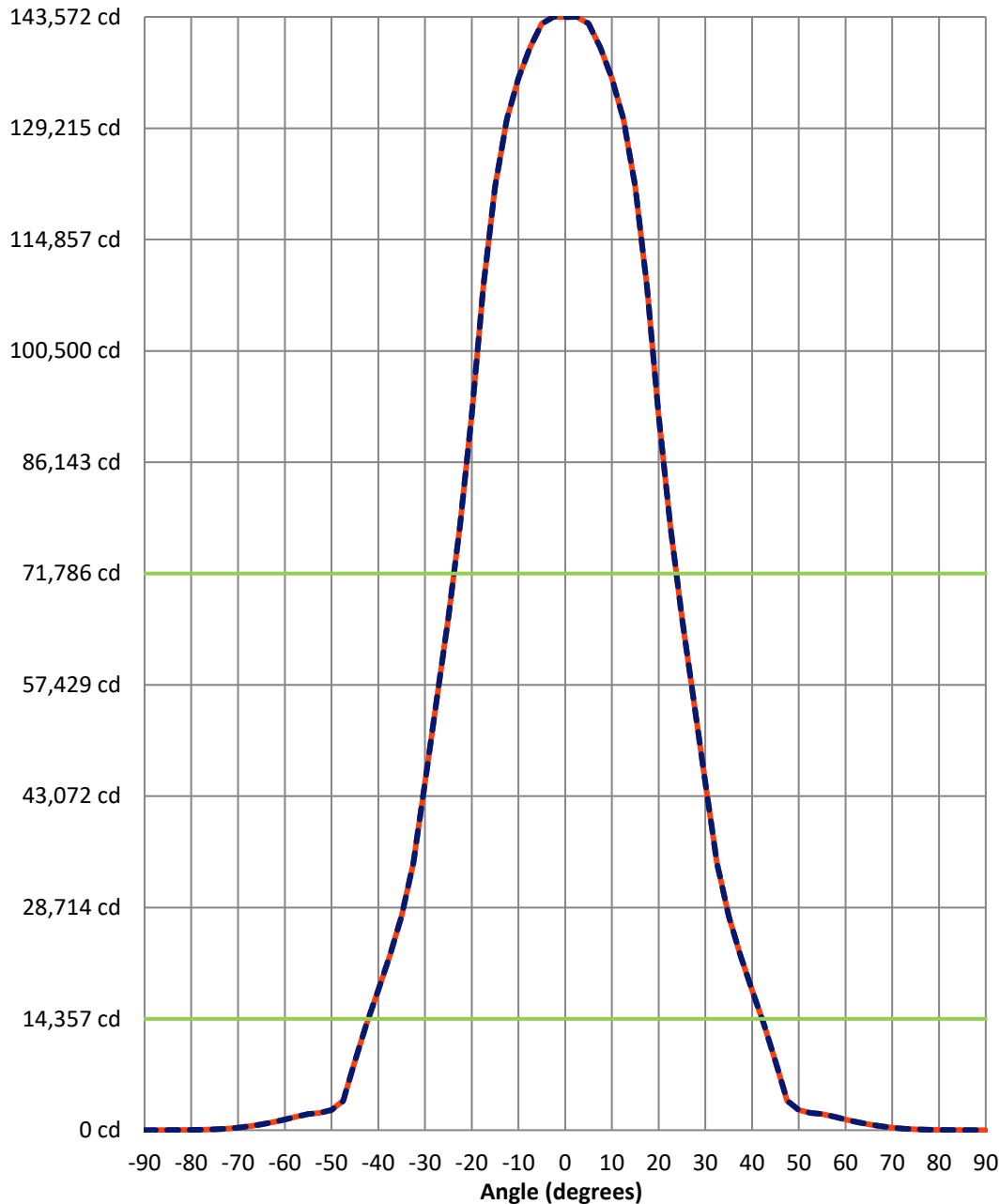
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 58872.6
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 97780.3
 Efficiency: 93.2%

Spill:
 Lumens: 7162.1
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	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	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.8
80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.5	10.6	11.7
77.5°	0.0	1.5	3.0	4.5	6.0	7.5	9.0	10.4	11.8	13.2	14.8
75°	0.0	1.8	3.6	5.4	7.2	9.0	10.7	12.4	14.2	16.3	18.4
72.5°	0.0	2.1	4.2	6.3	8.4	10.4	12.4	14.6	17.1	19.6	22.0
70°	0.0	2.4	4.8	7.2	9.5	11.8	14.2	17.1	19.9	22.8	26.6
67.5°	0.0	2.7	5.4	8.0	10.6	13.2	16.3	19.6	22.8	27.2	31.4
65°	0.0	3.0	5.9	8.8	11.7	14.8	18.4	22.0	26.6	31.4	38.0
62.5°	0.0	3.2	6.5	9.6	12.8	16.5	20.5	25.0	30.4	36.8	48.8
60°	0.0	3.5	7.0	10.4	13.8	18.2	22.5	28.3	34.1	46.3	59.3
57.5°	0.0	3.8	7.5	11.2	15.1	19.8	25.1	31.4	41.4	55.6	75.3
55°	0.0	4.0	8.0	12.0	16.4	21.4	27.7	34.5	49.5	66.3	93.6
52.5°	0.0	4.3	8.5	12.7	17.7	23.0	30.3	40.9	57.3	82.4	111.4
50°	0.0	4.5	9.0	13.4	18.9	25.1	32.8	47.6	66.7	97.9	135.6
47.5°	0.0	4.7	9.4	14.1	20.0	27.1	35.6	54.0	80.1	113.0	159.8
45°	0.0	4.9	9.9	14.9	21.1	29.0	40.9	60.2	93.0	133.8	183.1
42.5°	0.0	5.2	10.3	15.7	22.2	30.8	46.0	69.0	105.3	153.9	222.9
40°	0.0	5.4	10.7	16.5	23.4	32.6	50.8	79.3	118.8	173.1	263.9
37.5°	0.0	5.6	11.0	17.2	24.7	34.3	55.4	89.1	135.1	196.1	302.9
35°	0.0	5.7	11.4	17.9	26.0	37.2	59.8	98.3	150.4	229.3	345.1
32.5°	0.0	5.9	11.7	18.5	27.2	40.6	64.9	107.1	164.9	260.5	392.8
30°	0.0	6.1	12.0	19.1	28.3	43.8	71.9	116.1	178.5	289.8	437.4
27.5°	0.0	6.2	12.3	19.7	29.3	46.7	78.3	127.0	195.3	317.0	479.0
25°	0.0	6.3	12.6	20.2	30.2	49.4	84.3	137.1	217.5	348.1	517.8
22.5°	0.0	6.5	12.8	20.7	31.1	51.9	89.7	146.3	237.7	379.4	561.5
20°	0.0	6.6	13.1	21.1	31.9	54.2	94.6	154.6	255.9	407.6	601.0
17.5°	0.0	6.7	13.3	21.5	32.5	56.1	98.9	162.0	272.1	432.6	636.1
15°	0.0	6.8	13.4	21.8	33.1	57.9	102.7	168.4	286.3	454.5	666.7
12.5°	0.0	6.8	13.6	22.1	33.6	59.3	105.9	173.9	298.3	473.1	692.8
10°	0.0	6.9	13.7	22.3	34.1	60.5	108.6	178.4	308.2	488.4	714.3
7.5°	0.0	6.9	13.8	22.5	34.4	61.5	110.6	181.9	315.9	500.4	731.1
5°	0.0	7.0	13.8	22.6	34.6	62.2	112.1	184.4	321.4	508.9	743.1
2.5°	0.0	7.0	13.9	22.7	34.8	62.6	113.0	185.9	324.7	514.1	750.3
0°	0.0	7.0	13.9	22.7	34.8	62.7	113.3	186.4	325.8	515.8	752.7
-2.5°	0.0	7.0	13.9	22.7	34.8	62.7	113.3	186.4	325.8	515.8	752.7
-5°	0.0	7.0	13.8	22.6	34.6	62.2	112.1	184.4	321.4	508.9	743.1
-7.5°	0.0	6.9	13.8	22.5	34.4	61.5	110.6	181.9	315.9	500.4	731.1
-10°	0.0	6.9	13.7	22.3	34.1	60.5	108.6	178.4	308.2	488.4	714.3
-12.5°	0.0	6.8	13.6	22.1	33.6	59.3	105.9	173.9	298.3	473.1	692.8
-15°	0.0	6.8	13.4	21.8	33.1	57.9	102.7	168.4	286.3	454.5	666.7
-17.5°	0.0	6.7	13.3	21.5	32.5	56.1	98.9	162.0	272.1	432.6	636.1
-20°	0.0	6.6	13.1	21.1	31.9	54.2	94.6	154.6	255.9	407.6	601.0



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.5	12.8	20.7	31.1	51.9	89.7	146.3	237.7	379.4	561.5
-25°	0.0	6.3	12.6	20.2	30.2	49.4	84.3	137.1	217.5	348.1	517.8
-27.5°	0.0	6.2	12.3	19.7	29.3	46.7	78.3	127.0	195.3	317.0	479.0
-30°	0.0	6.1	12.0	19.1	28.3	43.8	71.9	116.1	178.5	289.8	437.4
-32.5°	0.0	5.9	11.7	18.5	27.2	40.6	64.9	107.1	164.9	260.5	392.8
-35°	0.0	5.7	11.4	17.9	26.0	37.2	59.8	98.3	150.4	229.3	345.1
-37.5°	0.0	5.6	11.0	17.2	24.7	34.3	55.4	89.1	135.1	196.1	302.9
-40°	0.0	5.4	10.7	16.5	23.4	32.6	50.8	79.3	118.8	173.1	263.9
-42.5°	0.0	5.2	10.3	15.7	22.2	30.8	46.0	69.0	105.3	153.9	222.9
-45°	0.0	4.9	9.9	14.9	21.1	29.0	40.9	60.2	93.0	133.8	183.1
-47.5°	0.0	4.7	9.4	14.1	20.0	27.1	35.6	54.0	80.1	113.0	159.8
-50°	0.0	4.5	9.0	13.4	18.9	25.1	32.8	47.6	66.7	97.9	135.6
-52.5°	0.0	4.3	8.5	12.7	17.7	23.0	30.3	40.9	57.3	82.4	111.4
-55°	0.0	4.0	8.0	12.0	16.4	21.4	27.7	34.5	49.5	66.3	93.6
-57.5°	0.0	3.8	7.5	11.2	15.1	19.8	25.1	31.4	41.4	55.6	75.3
-60°	0.0	3.5	7.0	10.4	13.8	18.2	22.5	28.3	34.1	46.3	59.3
-62.5°	0.0	3.2	6.5	9.6	12.8	16.5	20.5	25.0	30.4	36.8	48.8
-65°	0.0	3.0	5.9	8.8	11.7	14.8	18.4	22.0	26.6	31.4	38.0
-67.5°	0.0	2.7	5.4	8.0	10.6	13.2	16.3	19.6	22.8	27.2	31.4
-70°	0.0	2.4	4.8	7.2	9.5	11.8	14.2	17.1	19.9	22.8	26.6
-72.5°	0.0	2.1	4.2	6.3	8.4	10.4	12.4	14.6	17.1	19.6	22.0
-75°	0.0	1.8	3.6	5.4	7.2	9.0	10.7	12.4	14.2	16.3	18.4
-77.5°	0.0	1.5	3.0	4.5	6.0	7.5	9.0	10.4	11.8	13.2	14.8
-80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.5	10.6	11.7
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.8
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
-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°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
85°	6.5	7.0	7.5	8.0	8.5	9.0	9.4	9.9	10.3	10.7	11.0
82.5°	9.6	10.4	11.2	12.0	12.7	13.4	14.1	14.9	15.7	16.5	17.2
80°	12.8	13.8	15.1	16.4	17.7	18.9	20.0	21.1	22.2	23.4	24.7
77.5°	16.5	18.2	19.8	21.4	23.0	25.1	27.1	29.0	30.8	32.6	34.3
75°	20.5	22.5	25.1	27.7	30.3	32.8	35.6	40.9	46.0	50.8	55.4
72.5°	25.0	28.3	31.4	34.5	40.9	47.6	54.0	60.2	69.0	79.3	89.1
70°	30.4	34.1	41.4	49.5	57.3	66.7	80.1	93.0	105.3	118.8	135.1
67.5°	36.8	46.3	55.6	66.3	82.4	97.9	113.0	133.8	153.9	173.1	196.1
65°	48.8	59.3	75.3	93.6	111.4	135.6	159.8	183.1	222.9	263.9	302.9
62.5°	60.6	79.9	100.4	123.8	152.1	179.6	224.1	273.2	320.4	380.1	439.0
60°	79.9	102.7	130.4	162.0	198.7	255.9	311.4	379.4	449.8	517.8	598.3
57.5°	100.4	130.4	165.3	211.5	275.2	341.3	423.4	502.8	595.1	686.9	779.4
55°	123.8	162.0	211.5	281.6	359.0	450.0	544.2	651.1	754.7	875.9	992.0
52.5°	152.1	198.7	275.2	359.0	459.0	566.6	684.9	810.2	945.8	1081.7	1226.5
50°	179.6	255.9	341.3	450.0	566.6	696.3	838.1	988.1	1147.5	1309.4	1476.9
47.5°	224.1	311.4	423.4	544.2	684.9	838.1	1002.2	1180.6	1359.7	1553.8	1742.8
45°	273.2	379.4	502.8	651.1	810.2	988.1	1180.6	1376.5	1592.6	1795.4	1969.1
42.5°	320.4	449.8	595.1	754.7	945.8	1147.5	1359.7	1592.6	1812.4	2003.7	2130.6
40°	380.1	517.8	686.9	875.9	1081.7	1309.4	1553.8	1795.4	2003.7	2138.5	2226.0
37.5°	439.0	598.3	779.4	992.0	1226.5	1476.9	1742.8	1969.1	2130.6	2226.0	2459.2
35°	494.9	674.8	881.4	1112.2	1364.7	1645.8	1900.7	2107.1	2210.0	2437.9	2870.2
32.5°	555.5	747.2	977.9	1233.4	1512.1	1799.4	2049.2	2178.2	2374.4	2730.5	3586.4
30°	617.3	828.9	1072.9	1347.6	1652.6	1930.1	2131.2	2270.0	2561.5	3372.7	5684.5
27.5°	674.8	906.3	1170.8	1464.9	1780.3	2052.6	2190.3	2434.6	3021.4	4458.3	8423.1
25°	728.0	977.9	1261.6	1577.3	1885.5	2120.9	2269.1	2588.2	3552.3	6862.6	10875.3
22.5°	781.9	1043.7	1344.7	1680.4	1982.2	2167.7	2400.6	2995.8	4726.9	9087.4	13125.0
20°	835.5	1112.2	1425.8	1771.4	2069.9	2210.3	2520.3	3412.0	6623.4	11006.9	15049.0
17.5°	883.2	1173.2	1502.0	1843.3	2112.7	2277.3	2666.2	3785.7	8330.2	12738.6	16722.1
15°	924.9	1226.5	1568.7	1906.3	2143.4	2364.1	2969.5	5027.1	9784.3	14223.7	18207.4
12.5°	960.4	1272.0	1625.5	1960.0	2169.7	2438.4	3229.4	6219.5	10999.7	15403.9	19541.1
10°	989.7	1309.4	1672.4	2004.3	2191.4	2499.7	3444.3	7206.7	12007.7	16384.5	20651.8
7.5°	1012.5	1338.7	1709.0	2039.0	2208.3	2547.8	3612.9	7982.1	12800.4	17156.9	21528.3
5°	1028.9	1359.7	1735.3	2063.9	2220.5	2582.3	3734.1	8540.2	13371.5	17714.0	22161.4
2.5°	1038.7	1372.3	1751.1	2078.9	2227.9	2603.2	3807.2	8876.7	13716.1	18050.5	22544.2
0°	1042.0	1376.5	1756.4	2083.9	2230.3	2610.1	3831.6	8989.1	13831.3	18163.0	22672.3
-2.5°	1038.7	1372.3	1751.1	2078.9	2227.9	2603.2	3807.2	8876.7	13716.1	18050.5	22544.2
-5°	1028.9	1359.7	1735.3	2063.9	2220.5	2582.3	3734.1	8540.2	13371.5	17714.0	22161.4
-7.5°	1012.5	1338.7	1709.0	2039.0	2208.3	2547.8	3612.9	7982.1	12800.4	17156.9	21528.3
-10°	989.7	1309.4	1672.4	2004.3	2191.4	2499.7	3444.3	7206.7	12007.7	16384.5	20651.8
-12.5°	960.4	1272.0	1625.5	1960.0	2169.7	2438.4	3229.4	6219.5	10999.7	15403.9	19541.1
-15°	924.9	1226.5	1568.7	1906.3	2143.4	2364.1	2969.5	5027.1	9784.3	14223.7	18207.4
-17.5°	883.2	1173.2	1502.0	1843.3	2112.7	2277.3	2666.2	3785.7	8330.2	12738.6	16722.1
-20°	835.5	1112.2	1425.8	1771.4	2069.9	2210.3	2520.3	3412.0	6623.4	11006.9	15049.0



REPORT NUMBER: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	781.9	1043.7	1344.7	1680.4	1982.2	2167.7	2400.6	2995.8	4726.9	9087.4	13125.0
-25°	728.0	977.9	1261.6	1577.3	1885.5	2120.9	2269.1	2588.2	3552.3	6862.6	10875.3
-27.5°	674.8	906.3	1170.8	1464.9	1780.3	2052.6	2190.3	2434.6	3021.4	4458.3	8423.1
-30°	617.3	828.9	1072.9	1347.6	1652.6	1930.1	2131.2	2270.0	2561.5	3372.7	5684.5
-32.5°	555.5	747.2	977.9	1233.4	1512.1	1799.4	2049.2	2178.2	2374.4	2730.5	3586.4
-35°	494.9	674.8	881.4	1112.2	1364.7	1645.8	1900.7	2107.1	2210.0	2437.9	2870.2
-37.5°	439.0	598.3	779.4	992.0	1226.5	1476.9	1742.8	1969.1	2130.6	2226.0	2459.2
-40°	380.1	517.8	686.9	875.9	1081.7	1309.4	1553.8	1795.4	2003.7	2138.5	2226.0
-42.5°	320.4	449.8	595.1	754.7	945.8	1147.5	1359.7	1592.6	1812.4	2003.7	2130.6
-45°	273.2	379.4	502.8	651.1	810.2	988.1	1180.6	1376.5	1592.6	1795.4	1969.1
-47.5°	224.1	311.4	423.4	544.2	684.9	838.1	1002.2	1180.6	1359.7	1553.8	1742.8
-50°	179.6	255.9	341.3	450.0	566.6	696.3	838.1	988.1	1147.5	1309.4	1476.9
-52.5°	152.1	198.7	275.2	359.0	459.0	566.6	684.9	810.2	945.8	1081.7	1226.5
-55°	123.8	162.0	211.5	281.6	359.0	450.0	544.2	651.1	754.7	875.9	992.0
-57.5°	100.4	130.4	165.3	211.5	275.2	341.3	423.4	502.8	595.1	686.9	779.4
-60°	79.9	102.7	130.4	162.0	198.7	255.9	311.4	379.4	449.8	517.8	598.3
-62.5°	60.6	79.9	100.4	123.8	152.1	179.6	224.1	273.2	320.4	380.1	439.0
-65°	48.8	59.3	75.3	93.6	111.4	135.6	159.8	183.1	222.9	263.9	302.9
-67.5°	36.8	46.3	55.6	66.3	82.4	97.9	113.0	133.8	153.9	173.1	196.1
-70°	30.4	34.1	41.4	49.5	57.3	66.7	80.1	93.0	105.3	118.8	135.1
-72.5°	25.0	28.3	31.4	34.5	40.9	47.6	54.0	60.2	69.0	79.3	89.1
-75°	20.5	22.5	25.1	27.7	30.3	32.8	35.6	40.9	46.0	50.8	55.4
-77.5°	16.5	18.2	19.8	21.4	23.0	25.1	27.1	29.0	30.8	32.6	34.3
-80°	12.8	13.8	15.1	16.4	17.7	18.9	20.0	21.1	22.2	23.4	24.7
-82.5°	9.6	10.4	11.2	12.0	12.7	13.4	14.1	14.9	15.7	16.5	17.2
-85°	6.5	7.0	7.5	8.0	8.5	9.0	9.4	9.9	10.3	10.7	11.0
-87.5°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
-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: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
85°	11.4	11.7	12.0	12.3	12.6	12.8	13.1	13.3	13.4	13.6	13.7
82.5°	17.9	18.5	19.1	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.3
80°	26.0	27.2	28.3	29.3	30.2	31.1	31.9	32.5	33.1	33.6	34.1
77.5°	37.2	40.6	43.8	46.7	49.4	51.9	54.2	56.1	57.9	59.3	60.5
75°	59.8	64.9	71.9	78.3	84.3	89.7	94.6	98.9	102.7	105.9	108.6
72.5°	98.3	107.1	116.1	127.0	137.1	146.3	154.6	162.0	168.4	173.9	178.4
70°	150.4	164.9	178.5	195.3	217.5	237.7	255.9	272.1	286.3	298.3	308.2
67.5°	229.3	260.5	289.8	317.0	348.1	379.4	407.6	432.6	454.5	473.1	488.4
65°	345.1	392.8	437.4	479.0	517.8	561.5	601.0	636.1	666.7	692.8	714.3
62.5°	494.9	555.5	617.3	674.8	728.0	781.9	835.5	883.2	924.9	960.4	989.7
60°	674.8	747.2	828.9	906.3	977.9	1043.7	1112.2	1173.2	1226.5	1272.0	1309.4
57.5°	881.4	977.9	1072.9	1170.8	1261.6	1344.7	1425.8	1502.0	1568.7	1625.5	1672.4
55°	1112.2	1233.4	1347.6	1464.9	1577.3	1680.4	1771.4	1843.3	1906.3	1960.0	2004.3
52.5°	1364.7	1512.1	1652.6	1780.3	1885.5	1982.2	2069.9	2112.7	2143.4	2169.7	2191.4
50°	1645.8	1799.4	1930.1	2052.6	2120.9	2167.7	2210.3	2277.3	2364.1	2438.4	2499.7
47.5°	1900.7	2049.2	2131.2	2190.3	2269.1	2400.6	2520.3	2666.2	2969.5	3229.4	3444.3
45°	2107.1	2178.2	2270.0	2434.6	2588.2	2995.8	3412.0	3785.7	5027.1	6219.5	7206.7
42.5°	2210.0	2374.4	2561.5	3021.4	3552.3	4726.9	6623.4	8330.2	9784.3	10999.7	12007.7
40°	2437.9	2730.5	3372.7	4458.3	6862.6	9087.4	11006.9	12738.6	14223.7	15403.9	16384.5
37.5°	2870.2	3586.4	5684.5	8423.1	10875.3	13125.0	15049.0	16722.1	18207.4	19541.1	20651.8
35°	3658.2	6304.5	9350.6	12091.7	14587.8	16746.9	18761.0	20641.6	22314.4	23909.9	25282.3
32.5°	6304.5	9650.6	12707.5	15435.5	17905.1	20303.4	22532.4	24817.2	26873.6	28958.0	30964.5
30°	9350.6	12707.5	15720.6	18506.0	21247.5	23981.8	26700.8	29664.6	32653.6	35593.5	38963.2
27.5°	12091.7	15435.5	18506.0	21565.5	24728.1	27881.0	31797.1	35801.6	40786.0	45158.0	48922.1
25°	14587.8	17905.1	21247.5	24728.1	28404.0	32884.1	38401.2	44376.2	49881.2	54752.8	58868.4
22.5°	16746.9	20303.4	23981.8	27881.0	32884.1	39280.2	46233.0	52810.9	58792.8	64088.1	68893.2
20°	18761.0	22532.4	26700.8	31797.1	38401.2	46233.0	53804.5	60866.2	67456.2	74042.2	79953.1
17.5°	20641.6	24817.2	29664.6	35801.6	44376.2	52810.9	60866.2	68715.0	76711.6	85024.8	92620.2
15°	22314.4	26873.6	32653.6	40786.0	49881.2	58792.8	67456.2	76711.6	86764.5	96904.4	106847.7
12.5°	23909.9	28958.0	35593.5	45158.0	54752.8	64088.1	74042.2	85024.8	96904.4	109262.8	117806.7
10°	25282.3	30964.5	38963.2	48922.1	58868.4	68893.2	79953.1	92620.2	106847.7	117806.7	126024.2
7.5°	26367.8	32556.0	41645.0	51930.8	62167.7	73044.7	85519.3	99883.0	113881.6	124368.4	131010.8
5°	27153.4	33710.3	43595.3	54126.4	64586.0	76105.3	89654.6	105393.5	118641.9	128185.5	134036.1
2.5°	27628.9	34410.0	44780.0	55463.4	66063.3	77983.0	92206.4	108821.8	121639.1	130300.1	135661.1
0°	27788.1	34644.5	45177.4	55912.4	66560.3	78616.1	93069.5	109986.6	122664.4	130949.7	136216.9
-2.5°	27628.9	34410.0	44780.0	55463.4	66063.3	77983.0	92206.4	108821.8	121639.1	130300.1	135661.1
-5°	27153.4	33710.3	43595.3	54126.4	64586.0	76105.3	89654.6	105393.5	118641.9	128185.5	134036.1
-7.5°	26367.8	32556.0	41645.0	51930.8	62167.7	73044.7	85519.3	99883.0	113881.6	124368.4	131010.8
-10°	25282.3	30964.5	38963.2	48922.1	58868.4	68893.2	79953.1	92620.2	106847.7	117806.7	126024.2
-12.5°	23909.9	28958.0	35593.5	45158.0	54752.8	64088.1	74042.2	85024.8	96904.4	109262.8	117806.7
-15°	22314.4	26873.6	32653.6	40786.0	49881.2	58792.8	67456.2	76711.6	86764.5	96904.4	106847.7
-17.5°	20641.6	24817.2	29664.6	35801.6	44376.2	52810.9	60866.2	68715.0	76711.6	85024.8	92620.2
-20°	18761.0	22532.4	26700.8	31797.1	38401.2	46233.0	53804.5	60866.2	67456.2	74042.2	79953.1



REPORT NUMBER: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16746.9	20303.4	23981.8	27881.0	32884.1	39280.2	46233.0	52810.9	58792.8	64088.1	68893.2
-25°	14587.8	17905.1	21247.5	24728.1	28404.0	32884.1	38401.2	44376.2	49881.2	54752.8	58868.4
-27.5°	12091.7	15435.5	18506.0	21565.5	24728.1	27881.0	31797.1	35801.6	40786.0	45158.0	48922.1
-30°	9350.6	12707.5	15720.6	18506.0	21247.5	23981.8	26700.8	29664.6	32653.6	35593.5	38963.2
-32.5°	6304.5	9650.6	12707.5	15435.5	17905.1	20303.4	22532.4	24817.2	26873.6	28958.0	30964.5
-35°	3658.2	6304.5	9350.6	12091.7	14587.8	16746.9	18761.0	20641.6	22314.4	23909.9	25282.3
-37.5°	2870.2	3586.4	5684.5	8423.1	10875.3	13125.0	15049.0	16722.1	18207.4	19541.1	20651.8
-40°	2437.9	2730.5	3372.7	4458.3	6862.6	9087.4	11006.9	12738.6	14223.7	15403.9	16384.5
-42.5°	2210.0	2374.4	2561.5	3021.4	3552.3	4726.9	6623.4	8330.2	9784.3	10999.7	12007.7
-45°	2107.1	2178.2	2270.0	2434.6	2588.2	2995.8	3412.0	3785.7	5027.1	6219.5	7206.7
-47.5°	1900.7	2049.2	2131.2	2190.3	2269.1	2400.6	2520.3	2666.2	2969.5	3229.4	3444.3
-50°	1645.8	1799.4	1930.1	2052.6	2120.9	2167.7	2210.3	2277.3	2364.1	2438.4	2499.7
-52.5°	1364.7	1512.1	1652.6	1780.3	1885.5	1982.2	2069.9	2112.7	2143.4	2169.7	2191.4
-55°	1112.2	1233.4	1347.6	1464.9	1577.3	1680.4	1771.4	1843.3	1906.3	1960.0	2004.3
-57.5°	881.4	977.9	1072.9	1170.8	1261.6	1344.7	1425.8	1502.0	1568.7	1625.5	1672.4
-60°	674.8	747.2	828.9	906.3	977.9	1043.7	1112.2	1173.2	1226.5	1272.0	1309.4
-62.5°	494.9	555.5	617.3	674.8	728.0	781.9	835.5	883.2	924.9	960.4	989.7
-65°	345.1	392.8	437.4	479.0	517.8	561.5	601.0	636.1	666.7	692.8	714.3
-67.5°	229.3	260.5	289.8	317.0	348.1	379.4	407.6	432.6	454.5	473.1	488.4
-70°	150.4	164.9	178.5	195.3	217.5	237.7	255.9	272.1	286.3	298.3	308.2
-72.5°	98.3	107.1	116.1	127.0	137.1	146.3	154.6	162.0	168.4	173.9	178.4
-75°	59.8	64.9	71.9	78.3	84.3	89.7	94.6	98.9	102.7	105.9	108.6
-77.5°	37.2	40.6	43.8	46.7	49.4	51.9	54.2	56.1	57.9	59.3	60.5
-80°	26.0	27.2	28.3	29.3	30.2	31.1	31.9	32.5	33.1	33.6	34.1
-82.5°	17.9	18.5	19.1	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.3
-85°	11.4	11.7	12.0	12.3	12.6	12.8	13.1	13.3	13.4	13.6	13.7
-87.5°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
-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: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-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°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
85°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.7	13.6	13.4	13.3
82.5°	22.5	22.6	22.7	22.7	22.7	22.6	22.5	22.3	22.1	21.8	21.5
80°	34.4	34.6	34.8	34.8	34.8	34.6	34.4	34.1	33.6	33.1	32.5
77.5°	61.5	62.2	62.6	62.7	62.6	62.2	61.5	60.5	59.3	57.9	56.1
75°	110.6	112.1	113.0	113.3	113.0	112.1	110.6	108.6	105.9	102.7	98.9
72.5°	181.9	184.4	185.9	186.4	185.9	184.4	181.9	178.4	173.9	168.4	162.0
70°	315.9	321.4	324.7	325.8	324.7	321.4	315.9	308.2	298.3	286.3	272.1
67.5°	500.4	508.9	514.1	515.8	514.1	508.9	500.4	488.4	473.1	454.5	432.6
65°	731.1	743.1	750.3	752.7	750.3	743.1	731.1	714.3	692.8	666.7	636.1
62.5°	1012.5	1028.9	1038.7	1042.0	1038.7	1028.9	1012.5	989.7	960.4	924.9	883.2
60°	1338.7	1359.7	1372.3	1376.5	1372.3	1359.7	1338.7	1309.4	1272.0	1226.5	1173.2
57.5°	1709.0	1735.3	1751.1	1756.4	1751.1	1735.3	1709.0	1672.4	1625.5	1568.7	1502.0
55°	2039.0	2063.9	2078.9	2083.9	2078.9	2063.9	2039.0	2004.3	1960.0	1906.3	1843.3
52.5°	2208.3	2220.5	2227.9	2230.3	2227.9	2220.5	2208.3	2191.4	2169.7	2143.4	2112.7
50°	2547.8	2582.3	2603.2	2610.1	2603.2	2582.3	2547.8	2499.7	2438.4	2364.1	2277.3
47.5°	3612.9	3734.1	3807.2	3831.6	3807.2	3734.1	3612.9	3444.3	3229.4	2969.5	2666.2
45°	7982.1	8540.2	8876.7	8989.1	8876.7	8540.2	7982.1	7206.7	6219.5	5027.1	3785.7
42.5°	12800.4	13371.5	13716.1	13831.3	13716.1	13371.5	12800.4	12007.7	10999.7	9784.3	8330.2
40°	17156.9	17714.0	18050.5	18163.0	18050.5	17714.0	17156.9	16384.5	15403.9	14223.7	12738.6
37.5°	21528.3	22161.4	22544.2	22672.3	22544.2	22161.4	21528.3	20651.8	19541.1	18207.4	16722.1
35°	26367.8	27153.4	27628.9	27788.1	27628.9	27153.4	26367.8	25282.3	23909.9	22314.4	20641.6
32.5°	32556.0	33710.3	34410.0	34644.5	34410.0	33710.3	32556.0	30964.5	28958.0	26873.6	24817.2
30°	41645.0	43595.3	44780.0	45177.4	44780.0	43595.3	41645.0	38963.2	35593.5	32653.6	29664.6
27.5°	51930.8	54126.4	55463.4	55912.4	55463.4	54126.4	51930.8	48922.1	45158.0	40786.0	35801.6
25°	62167.7	64586.0	66063.3	66560.3	66063.3	64586.0	62167.7	58868.4	54752.8	49881.2	44376.2
22.5°	73044.7	76105.3	77983.0	78616.1	77983.0	76105.3	73044.7	68893.2	64088.1	58792.8	52810.9
20°	85519.3	89654.6	92206.4	93069.5	92206.4	89654.6	85519.3	79953.1	74042.2	67456.2	60866.2
17.5°	99883.0	105393.5	108821.8	109986.6	108821.8	105393.5	99883.0	92620.2	85024.8	76711.6	68715.0
15°	113881.6	118641.9	121639.1	122664.4	121639.1	118641.9	113881.6	106847.7	96904.4	86764.5	76711.6
12.5°	124368.4	128185.5	130300.1	130949.7	130300.1	128185.5	124368.4	117806.7	109262.8	96904.4	85024.8
10°	131010.8	134036.1	135661.1	136216.9	135661.1	134036.1	131010.8	126024.2	117806.7	106847.7	92620.2
7.5°	135138.0	137954.2	139645.8	140241.9	139645.8	137954.2	135138.0	131010.8	124368.4	113881.6	99883.0
5°	137954.2	140882.3	142698.8	143252.8	142698.8	140882.3	137954.2	134036.1	128185.5	118641.9	105393.5
2.5°	139645.8	142698.8	143571.9	143542.1	143571.9	142698.8	139645.8	135661.1	130300.1	121639.1	108821.8
0°	140241.9	143252.8	143542.1	142988.0	143542.1	143252.8	140241.9	136216.9	130949.7	122664.4	109986.6
-2.5°	139645.8	142698.8	143571.9	143542.1	143571.9	142698.8	139645.8	135661.1	130300.1	121639.1	108821.8
-5°	137954.2	140882.3	142698.8	143252.8	142698.8	140882.3	137954.2	134036.1	128185.5	118641.9	105393.5
-7.5°	135138.0	137954.2	139645.8	140241.9	139645.8	137954.2	135138.0	131010.8	124368.4	113881.6	99883.0
-10°	131010.8	134036.1	135661.1	136216.9	135661.1	134036.1	131010.8	126024.2	117806.7	106847.7	92620.2
-12.5°	124368.4	128185.5	130300.1	130949.7	130300.1	128185.5	124368.4	117806.7	109262.8	96904.4	85024.8
-15°	113881.6	118641.9	121639.1	122664.4	121639.1	118641.9	113881.6	106847.7	96904.4	86764.5	76711.6
-17.5°	99883.0	105393.5	108821.8	109986.6	108821.8	105393.5	99883.0	92620.2	85024.8	76711.6	68715.0
-20°	85519.3	89654.6	92206.4	93069.5	92206.4	89654.6	85519.3	79953.1	74042.2	67456.2	60866.2



REPORT NUMBER: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	73044.7	76105.3	77983.0	78616.1	77983.0	76105.3	73044.7	68893.2	64088.1	58792.8	52810.9
-25°	62167.7	64586.0	66063.3	66560.3	66063.3	64586.0	62167.7	58868.4	54752.8	49881.2	44376.2
-27.5°	51930.8	54126.4	55463.4	55912.4	55463.4	54126.4	51930.8	48922.1	45158.0	40786.0	35801.6
-30°	41645.0	43595.3	44780.0	45177.4	44780.0	43595.3	41645.0	38963.2	35593.5	32653.6	29664.6
-32.5°	32556.0	33710.3	34410.0	34644.5	34410.0	33710.3	32556.0	30964.5	28958.0	26873.6	24817.2
-35°	26367.8	27153.4	27628.9	27788.1	27628.9	27153.4	26367.8	25282.3	23909.9	22314.4	20641.6
-37.5°	21528.3	22161.4	22544.2	22672.3	22544.2	22161.4	21528.3	20651.8	19541.1	18207.4	16722.1
-40°	17156.9	17714.0	18050.5	18163.0	18050.5	17714.0	17156.9	16384.5	15403.9	14223.7	12738.6
-42.5°	12800.4	13371.5	13716.1	13831.3	13716.1	13371.5	12800.4	12007.7	10999.7	9784.3	8330.2
-45°	7982.1	8540.2	8876.7	8989.1	8876.7	8540.2	7982.1	7206.7	6219.5	5027.1	3785.7
-47.5°	3612.9	3734.1	3807.2	3831.6	3807.2	3734.1	3612.9	3444.3	3229.4	2969.5	2666.2
-50°	2547.8	2582.3	2603.2	2610.1	2603.2	2582.3	2547.8	2499.7	2438.4	2364.1	2277.3
-52.5°	2208.3	2220.5	2227.9	2230.3	2227.9	2220.5	2208.3	2191.4	2169.7	2143.4	2112.7
-55°	2039.0	2063.9	2078.9	2083.9	2078.9	2063.9	2039.0	2004.3	1960.0	1906.3	1843.3
-57.5°	1709.0	1735.3	1751.1	1756.4	1751.1	1735.3	1709.0	1672.4	1625.5	1568.7	1502.0
-60°	1338.7	1359.7	1372.3	1376.5	1372.3	1359.7	1338.7	1309.4	1272.0	1226.5	1173.2
-62.5°	1012.5	1028.9	1038.7	1042.0	1038.7	1028.9	1012.5	989.7	960.4	924.9	883.2
-65°	731.1	743.1	750.3	752.7	750.3	743.1	731.1	714.3	692.8	666.7	636.1
-67.5°	500.4	508.9	514.1	515.8	514.1	508.9	500.4	488.4	473.1	454.5	432.6
-70°	315.9	321.4	324.7	325.8	324.7	321.4	315.9	308.2	298.3	286.3	272.1
-72.5°	181.9	184.4	185.9	186.4	185.9	184.4	181.9	178.4	173.9	168.4	162.0
-75°	110.6	112.1	113.0	113.3	113.0	112.1	110.6	108.6	105.9	102.7	98.9
-77.5°	61.5	62.2	62.6	62.7	62.6	62.2	61.5	60.5	59.3	57.9	56.1
-80°	34.4	34.6	34.8	34.8	34.8	34.6	34.4	34.1	33.6	33.1	32.5
-82.5°	22.5	22.6	22.7	22.7	22.7	22.6	22.5	22.3	22.1	21.8	21.5
-85°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.7	13.6	13.4	13.3
-87.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
-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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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-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°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
85°	13.1	12.8	12.6	12.3	12.0	11.7	11.4	11.0	10.7	10.3	9.9
82.5°	21.1	20.7	20.2	19.7	19.1	18.5	17.9	17.2	16.5	15.7	14.9
80°	31.9	31.1	30.2	29.3	28.3	27.2	26.0	24.7	23.4	22.2	21.1
77.5°	54.2	51.9	49.4	46.7	43.8	40.6	37.2	34.3	32.6	30.8	29.0
75°	94.6	89.7	84.3	78.3	71.9	64.9	59.8	55.4	50.8	46.0	40.9
72.5°	154.6	146.3	137.1	127.0	116.1	107.1	98.3	89.1	79.3	69.0	60.2
70°	255.9	237.7	217.5	195.3	178.5	164.9	150.4	135.1	118.8	105.3	93.0
67.5°	407.6	379.4	348.1	317.0	289.8	260.5	229.3	196.1	173.1	153.9	133.8
65°	601.0	561.5	517.8	479.0	437.4	392.8	345.1	302.9	263.9	222.9	183.1
62.5°	835.5	781.9	728.0	674.8	617.3	555.5	494.9	439.0	380.1	320.4	273.2
60°	1112.2	1043.7	977.9	906.3	828.9	747.2	674.8	598.3	517.8	449.8	379.4
57.5°	1425.8	1344.7	1261.6	1170.8	1072.9	977.9	881.4	779.4	686.9	595.1	502.8
55°	1771.4	1680.4	1577.3	1464.9	1347.6	1233.4	1112.2	992.0	875.9	754.7	651.1
52.5°	2069.9	1982.2	1885.5	1780.3	1652.6	1512.1	1364.7	1226.5	1081.7	945.8	810.2
50°	2210.3	2167.7	2120.9	2052.6	1930.1	1799.4	1645.8	1476.9	1309.4	1147.5	988.1
47.5°	2520.3	2400.6	2269.1	2190.3	2131.2	2049.2	1900.7	1742.8	1553.8	1359.7	1180.6
45°	3412.0	2995.8	2588.2	2434.6	2270.0	2178.2	2107.1	1969.1	1795.4	1592.6	1376.5
42.5°	6623.4	4726.9	3552.3	3021.4	2561.5	2374.4	2210.0	2130.6	2003.7	1812.4	1592.6
40°	11006.9	9087.4	6862.6	4458.3	3372.7	2730.5	2437.9	2226.0	2138.5	2003.7	1795.4
37.5°	15049.0	13125.0	10875.3	8423.1	5684.5	3586.4	2870.2	2459.2	2226.0	2130.6	1969.1
35°	18761.0	16746.9	14587.8	12091.7	9350.6	6304.5	3658.2	2870.2	2437.9	2210.0	2107.1
32.5°	22532.4	20303.4	17905.1	15435.5	12707.5	9650.6	6304.5	3586.4	2730.5	2374.4	2178.2
30°	26700.8	23981.8	21247.5	18506.0	15720.6	12707.5	9350.6	5684.5	3372.7	2561.5	2270.0
27.5°	31797.1	27881.0	24728.1	21565.5	18506.0	15435.5	12091.7	8423.1	4458.3	3021.4	2434.6
25°	38401.2	32884.1	28404.0	24728.1	21247.5	17905.1	14587.8	10875.3	6862.6	3552.3	2588.2
22.5°	46233.0	39280.2	32884.1	27881.0	23981.8	20303.4	16746.9	13125.0	9087.4	4726.9	2995.8
20°	53804.5	46233.0	38401.2	31797.1	26700.8	22532.4	18761.0	15049.0	11006.9	6623.4	3412.0
17.5°	60866.2	52810.9	44376.2	35801.6	29664.6	24817.2	20641.6	16722.1	12738.6	8330.2	3785.7
15°	67456.2	58792.8	49881.2	40786.0	32653.6	26873.6	22314.4	18207.4	14223.7	9784.3	5027.1
12.5°	74042.2	64088.1	54752.8	45158.0	35593.5	28958.0	23909.9	19541.1	15403.9	10999.7	6219.5
10°	79953.1	68893.2	58868.4	48922.1	38963.2	30964.5	25282.3	20651.8	16384.5	12007.7	7206.7
7.5°	85519.3	73044.7	62167.7	51930.8	41645.0	32556.0	26367.8	21528.3	17156.9	12800.4	7982.1
5°	89654.6	76105.3	64586.0	54126.4	43595.3	33710.3	27153.4	22161.4	17714.0	13371.5	8540.2
2.5°	92206.4	77983.0	66063.3	55463.4	44780.0	34410.0	27628.9	22544.2	18050.5	13716.1	8876.7
0°	93069.5	78616.1	66560.3	55912.4	45177.4	34644.5	27788.1	22672.3	18163.0	13831.3	8989.1
-2.5°	92206.4	77983.0	66063.3	55463.4	44780.0	34410.0	27628.9	22544.2	18050.5	13716.1	8876.7
-5°	89654.6	76105.3	64586.0	54126.4	43595.3	33710.3	27153.4	22161.4	17714.0	13371.5	8540.2
-7.5°	85519.3	73044.7	62167.7	51930.8	41645.0	32556.0	26367.8	21528.3	17156.9	12800.4	7982.1
-10°	79953.1	68893.2	58868.4	48922.1	38963.2	30964.5	25282.3	20651.8	16384.5	12007.7	7206.7
-12.5°	74042.2	64088.1	54752.8	45158.0	35593.5	28958.0	23909.9	19541.1	15403.9	10999.7	6219.5
-15°	67456.2	58792.8	49881.2	40786.0	32653.6	26873.6	22314.4	18207.4	14223.7	9784.3	5027.1
-17.5°	60866.2	52810.9	44376.2	35801.6	29664.6	24817.2	20641.6	16722.1	12738.6	8330.2	3785.7
-20°	53804.5	46233.0	38401.2	31797.1	26700.8	22532.4	18761.0	15049.0	11006.9	6623.4	3412.0



REPORT NUMBER: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	46233.0	39280.2	32884.1	27881.0	23981.8	20303.4	16746.9	13125.0	9087.4	4726.9	2995.8
-25°	38401.2	32884.1	28404.0	24728.1	21247.5	17905.1	14587.8	10875.3	6862.6	3552.3	2588.2
-27.5°	31797.1	27881.0	24728.1	21565.5	18506.0	15435.5	12091.7	8423.1	4458.3	3021.4	2434.6
-30°	26700.8	23981.8	21247.5	18506.0	15720.6	12707.5	9350.6	5684.5	3372.7	2561.5	2270.0
-32.5°	22532.4	20303.4	17905.1	15435.5	12707.5	9650.6	6304.5	3586.4	2730.5	2374.4	2178.2
-35°	18761.0	16746.9	14587.8	12091.7	9350.6	6304.5	3658.2	2870.2	2437.9	2210.0	2107.1
-37.5°	15049.0	13125.0	10875.3	8423.1	5684.5	3586.4	2870.2	2459.2	2226.0	2130.6	1969.1
-40°	11006.9	9087.4	6862.6	4458.3	3372.7	2730.5	2437.9	2226.0	2138.5	2003.7	1795.4
-42.5°	6623.4	4726.9	3552.3	3021.4	2561.5	2374.4	2210.0	2130.6	2003.7	1812.4	1592.6
-45°	3412.0	2995.8	2588.2	2434.6	2270.0	2178.2	2107.1	1969.1	1795.4	1592.6	1376.5
-47.5°	2520.3	2400.6	2269.1	2190.3	2131.2	2049.2	1900.7	1742.8	1553.8	1359.7	1180.6
-50°	2210.3	2167.7	2120.9	2052.6	1930.1	1799.4	1645.8	1476.9	1309.4	1147.5	988.1
-52.5°	2069.9	1982.2	1885.5	1780.3	1652.6	1512.1	1364.7	1226.5	1081.7	945.8	810.2
-55°	1771.4	1680.4	1577.3	1464.9	1347.6	1233.4	1112.2	992.0	875.9	754.7	651.1
-57.5°	1425.8	1344.7	1261.6	1170.8	1072.9	977.9	881.4	779.4	686.9	595.1	502.8
-60°	1112.2	1043.7	977.9	906.3	828.9	747.2	674.8	598.3	517.8	449.8	379.4
-62.5°	835.5	781.9	728.0	674.8	617.3	555.5	494.9	439.0	380.1	320.4	273.2
-65°	601.0	561.5	517.8	479.0	437.4	392.8	345.1	302.9	263.9	222.9	183.1
-67.5°	407.6	379.4	348.1	317.0	289.8	260.5	229.3	196.1	173.1	153.9	133.8
-70°	255.9	237.7	217.5	195.3	178.5	164.9	150.4	135.1	118.8	105.3	93.0
-72.5°	154.6	146.3	137.1	127.0	116.1	107.1	98.3	89.1	79.3	69.0	60.2
-75°	94.6	89.7	84.3	78.3	71.9	64.9	59.8	55.4	50.8	46.0	40.9
-77.5°	54.2	51.9	49.4	46.7	43.8	40.6	37.2	34.3	32.6	30.8	29.0
-80°	31.9	31.1	30.2	29.3	28.3	27.2	26.0	24.7	23.4	22.2	21.1
-82.5°	21.1	20.7	20.2	19.7	19.1	18.5	17.9	17.2	16.5	15.7	14.9
-85°	13.1	12.8	12.6	12.3	12.0	11.7	11.4	11.0	10.7	10.3	9.9
-87.5°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
-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: P701455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-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°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
85°	9.4	9.0	8.5	8.0	7.5	7.0	6.5	5.9	5.4	4.8	4.2
82.5°	14.1	13.4	12.7	12.0	11.2	10.4	9.6	8.8	8.0	7.2	6.3
80°	20.0	18.9	17.7	16.4	15.1	13.8	12.8	11.7	10.6	9.5	8.4
77.5°	27.1	25.1	23.0	21.4	19.8	18.2	16.5	14.8	13.2	11.8	10.4
75°	35.6	32.8	30.3	27.7	25.1	22.5	20.5	18.4	16.3	14.2	12.4
72.5°	54.0	47.6	40.9	34.5	31.4	28.3	25.0	22.0	19.6	17.1	14.6
70°	80.1	66.7	57.3	49.5	41.4	34.1	30.4	26.6	22.8	19.9	17.1
67.5°	113.0	97.9	82.4	66.3	55.6	46.3	36.8	31.4	27.2	22.8	19.6
65°	159.8	135.6	111.4	93.6	75.3	59.3	48.8	38.0	31.4	26.6	22.0
62.5°	224.1	179.6	152.1	123.8	100.4	79.9	60.6	48.8	36.8	30.4	25.0
60°	311.4	255.9	198.7	162.0	130.4	102.7	79.9	59.3	46.3	34.1	28.3
57.5°	423.4	341.3	275.2	211.5	165.3	130.4	100.4	75.3	55.6	41.4	31.4
55°	544.2	450.0	359.0	281.6	211.5	162.0	123.8	93.6	66.3	49.5	34.5
52.5°	684.9	566.6	459.0	359.0	275.2	198.7	152.1	111.4	82.4	57.3	40.9
50°	838.1	696.3	566.6	450.0	341.3	255.9	179.6	135.6	97.9	66.7	47.6
47.5°	1002.2	838.1	684.9	544.2	423.4	311.4	224.1	159.8	113.0	80.1	54.0
45°	1180.6	988.1	810.2	651.1	502.8	379.4	273.2	183.1	133.8	93.0	60.2
42.5°	1359.7	1147.5	945.8	754.7	595.1	449.8	320.4	222.9	153.9	105.3	69.0
40°	1553.8	1309.4	1081.7	875.9	686.9	517.8	380.1	263.9	173.1	118.8	79.3
37.5°	1742.8	1476.9	1226.5	992.0	779.4	598.3	439.0	302.9	196.1	135.1	89.1
35°	1900.7	1645.8	1364.7	1112.2	881.4	674.8	494.9	345.1	229.3	150.4	98.3
32.5°	2049.2	1799.4	1512.1	1233.4	977.9	747.2	555.5	392.8	260.5	164.9	107.1
30°	2131.2	1930.1	1652.6	1347.6	1072.9	828.9	617.3	437.4	289.8	178.5	116.1
27.5°	2190.3	2052.6	1780.3	1464.9	1170.8	906.3	674.8	479.0	317.0	195.3	127.0
25°	2269.1	2120.9	1885.5	1577.3	1261.6	977.9	728.0	517.8	348.1	217.5	137.1
22.5°	2400.6	2167.7	1982.2	1680.4	1344.7	1043.7	781.9	561.5	379.4	237.7	146.3
20°	2520.3	2210.3	2069.9	1771.4	1425.8	1112.2	835.5	601.0	407.6	255.9	154.6
17.5°	2666.2	2277.3	2112.7	1843.3	1502.0	1173.2	883.2	636.1	432.6	272.1	162.0
15°	2969.5	2364.1	2143.4	1906.3	1568.7	1226.5	924.9	666.7	454.5	286.3	168.4
12.5°	3229.4	2438.4	2169.7	1960.0	1625.5	1272.0	960.4	692.8	473.1	298.3	173.9
10°	3444.3	2499.7	2191.4	2004.3	1672.4	1309.4	989.7	714.3	488.4	308.2	178.4
7.5°	3612.9	2547.8	2208.3	2039.0	1709.0	1338.7	1012.5	731.1	500.4	315.9	181.9
5°	3734.1	2582.3	2220.5	2063.9	1735.3	1359.7	1028.9	743.1	508.9	321.4	184.4
2.5°	3807.2	2603.2	2227.9	2078.9	1751.1	1372.3	1038.7	750.3	514.1	324.7	185.9
0°	3831.6	2610.1	2230.3	2083.9	1756.4	1376.5	1042.0	752.7	515.8	325.8	186.4
-2.5°	3807.2	2603.2	2227.9	2078.9	1751.1	1372.3	1038.7	750.3	514.1	324.7	185.9
-5°	3734.1	2582.3	2220.5	2063.9	1735.3	1359.7	1028.9	743.1	508.9	321.4	184.4
-7.5°	3612.9	2547.8	2208.3	2039.0	1709.0	1338.7	1012.5	731.1	500.4	315.9	181.9
-10°	3444.3	2499.7	2191.4	2004.3	1672.4	1309.4	989.7	714.3	488.4	308.2	178.4
-12.5°	3229.4	2438.4	2169.7	1960.0	1625.5	1272.0	960.4	692.8	473.1	298.3	173.9
-15°	2969.5	2364.1	2143.4	1906.3	1568.7	1226.5	924.9	666.7	454.5	286.3	168.4
-17.5°	2666.2	2277.3	2112.7	1843.3	1502.0	1173.2	883.2	636.1	432.6	272.1	162.0
-20°	2520.3	2210.3	2069.9	1771.4	1425.8	1112.2	835.5	601.0	407.6	255.9	154.6



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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°	2400.6	2167.7	1982.2	1680.4	1344.7	1043.7	781.9	561.5	379.4	237.7	146.3
-25°	2269.1	2120.9	1885.5	1577.3	1261.6	977.9	728.0	517.8	348.1	217.5	137.1
-27.5°	2190.3	2052.6	1780.3	1464.9	1170.8	906.3	674.8	479.0	317.0	195.3	127.0
-30°	2131.2	1930.1	1652.6	1347.6	1072.9	828.9	617.3	437.4	289.8	178.5	116.1
-32.5°	2049.2	1799.4	1512.1	1233.4	977.9	747.2	555.5	392.8	260.5	164.9	107.1
-35°	1900.7	1645.8	1364.7	1112.2	881.4	674.8	494.9	345.1	229.3	150.4	98.3
-37.5°	1742.8	1476.9	1226.5	992.0	779.4	598.3	439.0	302.9	196.1	135.1	89.1
-40°	1553.8	1309.4	1081.7	875.9	686.9	517.8	380.1	263.9	173.1	118.8	79.3
-42.5°	1359.7	1147.5	945.8	754.7	595.1	449.8	320.4	222.9	153.9	105.3	69.0
-45°	1180.6	988.1	810.2	651.1	502.8	379.4	273.2	183.1	133.8	93.0	60.2
-47.5°	1002.2	838.1	684.9	544.2	423.4	311.4	224.1	159.8	113.0	80.1	54.0
-50°	838.1	696.3	566.6	450.0	341.3	255.9	179.6	135.6	97.9	66.7	47.6
-52.5°	684.9	566.6	459.0	359.0	275.2	198.7	152.1	111.4	82.4	57.3	40.9
-55°	544.2	450.0	359.0	281.6	211.5	162.0	123.8	93.6	66.3	49.5	34.5
-57.5°	423.4	341.3	275.2	211.5	165.3	130.4	100.4	75.3	55.6	41.4	31.4
-60°	311.4	255.9	198.7	162.0	130.4	102.7	79.9	59.3	46.3	34.1	28.3
-62.5°	224.1	179.6	152.1	123.8	100.4	79.9	60.6	48.8	36.8	30.4	25.0
-65°	159.8	135.6	111.4	93.6	75.3	59.3	48.8	38.0	31.4	26.6	22.0
-67.5°	113.0	97.9	82.4	66.3	55.6	46.3	36.8	31.4	27.2	22.8	19.6
-70°	80.1	66.7	57.3	49.5	41.4	34.1	30.4	26.6	22.8	19.9	17.1
-72.5°	54.0	47.6	40.9	34.5	31.4	28.3	25.0	22.0	19.6	17.1	14.6
-75°	35.6	32.8	30.3	27.7	25.1	22.5	20.5	18.4	16.3	14.2	12.4
-77.5°	27.1	25.1	23.0	21.4	19.8	18.2	16.5	14.8	13.2	11.8	10.4
-80°	20.0	18.9	17.7	16.4	15.1	13.8	12.8	11.7	10.6	9.5	8.4
-82.5°	14.1	13.4	12.7	12.0	11.2	10.4	9.6	8.8	8.0	7.2	6.3
-85°	9.4	9.0	8.5	8.0	7.5	7.0	6.5	5.9	5.4	4.8	4.2
-87.5°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	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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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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
77.5°	9.0	7.5	6.0	4.5	3.0	1.5	0.0
75°	10.7	9.0	7.2	5.4	3.6	1.8	0.0
72.5°	12.4	10.4	8.4	6.3	4.2	2.1	0.0
70°	14.2	11.8	9.5	7.2	4.8	2.4	0.0
67.5°	16.3	13.2	10.6	8.0	5.4	2.7	0.0
65°	18.4	14.8	11.7	8.8	5.9	3.0	0.0
62.5°	20.5	16.5	12.8	9.6	6.5	3.2	0.0
60°	22.5	18.2	13.8	10.4	7.0	3.5	0.0
57.5°	25.1	19.8	15.1	11.2	7.5	3.8	0.0
55°	27.7	21.4	16.4	12.0	8.0	4.0	0.0
52.5°	30.3	23.0	17.7	12.7	8.5	4.3	0.0
50°	32.8	25.1	18.9	13.4	9.0	4.5	0.0
47.5°	35.6	27.1	20.0	14.1	9.4	4.7	0.0
45°	40.9	29.0	21.1	14.9	9.9	4.9	0.0
42.5°	46.0	30.8	22.2	15.7	10.3	5.2	0.0
40°	50.8	32.6	23.4	16.5	10.7	5.4	0.0
37.5°	55.4	34.3	24.7	17.2	11.0	5.6	0.0
35°	59.8	37.2	26.0	17.9	11.4	5.7	0.0
32.5°	64.9	40.6	27.2	18.5	11.7	5.9	0.0
30°	71.9	43.8	28.3	19.1	12.0	6.1	0.0
27.5°	78.3	46.7	29.3	19.7	12.3	6.2	0.0
25°	84.3	49.4	30.2	20.2	12.6	6.3	0.0
22.5°	89.7	51.9	31.1	20.7	12.8	6.5	0.0
20°	94.6	54.2	31.9	21.1	13.1	6.6	0.0
17.5°	98.9	56.1	32.5	21.5	13.3	6.7	0.0
15°	102.7	57.9	33.1	21.8	13.4	6.8	0.0
12.5°	105.9	59.3	33.6	22.1	13.6	6.8	0.0
10°	108.6	60.5	34.1	22.3	13.7	6.9	0.0
7.5°	110.6	61.5	34.4	22.5	13.8	6.9	0.0
5°	112.1	62.2	34.6	22.6	13.8	7.0	0.0
2.5°	113.0	62.6	34.8	22.7	13.9	7.0	0.0
0°	113.3	62.7	34.8	22.7	13.9	7.0	0.0
-2.5°	113.0	62.6	34.8	22.7	13.9	7.0	0.0
-5°	112.1	62.2	34.6	22.6	13.8	7.0	0.0
-7.5°	110.6	61.5	34.4	22.5	13.8	6.9	0.0
-10°	108.6	60.5	34.1	22.3	13.7	6.9	0.0
-12.5°	105.9	59.3	33.6	22.1	13.6	6.8	0.0
-15°	102.7	57.9	33.1	21.8	13.4	6.8	0.0
-17.5°	98.9	56.1	32.5	21.5	13.3	6.7	0.0
-20°	94.6	54.2	31.9	21.1	13.1	6.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	89.7	51.9	31.1	20.7	12.8	6.5	0.0
-25°	84.3	49.4	30.2	20.2	12.6	6.3	0.0
-27.5°	78.3	46.7	29.3	19.7	12.3	6.2	0.0
-30°	71.9	43.8	28.3	19.1	12.0	6.1	0.0
-32.5°	64.9	40.6	27.2	18.5	11.7	5.9	0.0
-35°	59.8	37.2	26.0	17.9	11.4	5.7	0.0
-37.5°	55.4	34.3	24.7	17.2	11.0	5.6	0.0
-40°	50.8	32.6	23.4	16.5	10.7	5.4	0.0
-42.5°	46.0	30.8	22.2	15.7	10.3	5.2	0.0
-45°	40.9	29.0	21.1	14.9	9.9	4.9	0.0
-47.5°	35.6	27.1	20.0	14.1	9.4	4.7	0.0
-50°	32.8	25.1	18.9	13.4	9.0	4.5	0.0
-52.5°	30.3	23.0	17.7	12.7	8.5	4.3	0.0
-55°	27.7	21.4	16.4	12.0	8.0	4.0	0.0
-57.5°	25.1	19.8	15.1	11.2	7.5	3.8	0.0
-60°	22.5	18.2	13.8	10.4	7.0	3.5	0.0
-62.5°	20.5	16.5	12.8	9.6	6.5	3.2	0.0
-65°	18.4	14.8	11.7	8.8	5.9	3.0	0.0
-67.5°	16.3	13.2	10.6	8.0	5.4	2.7	0.0
-70°	14.2	11.8	9.5	7.2	4.8	2.4	0.0
-72.5°	12.4	10.4	8.4	6.3	4.2	2.1	0.0
-75°	10.7	9.0	7.2	5.4	3.6	1.8	0.0
-77.5°	9.0	7.5	6.0	4.5	3.0	1.5	0.0
-80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
-82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	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



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

