

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: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-70-3S-VHE-S**

Issue Date: 8/29/2023

Test Information

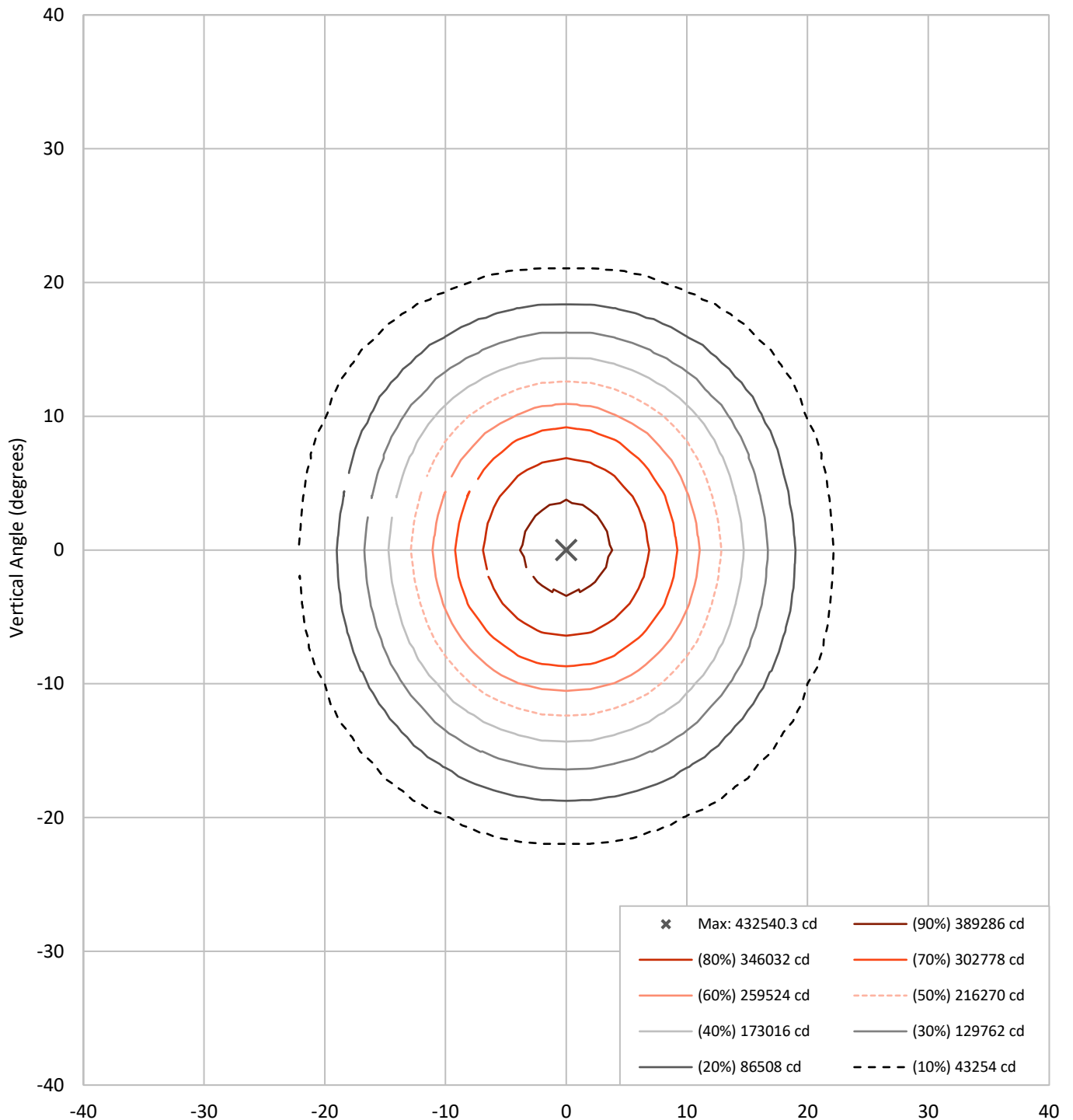
Test Method: LM-79-08
Report Number: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-70-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	97179 lumens	Max Intensity:	432540.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	46496 lumens	Field Lumens:	81472.6 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%
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





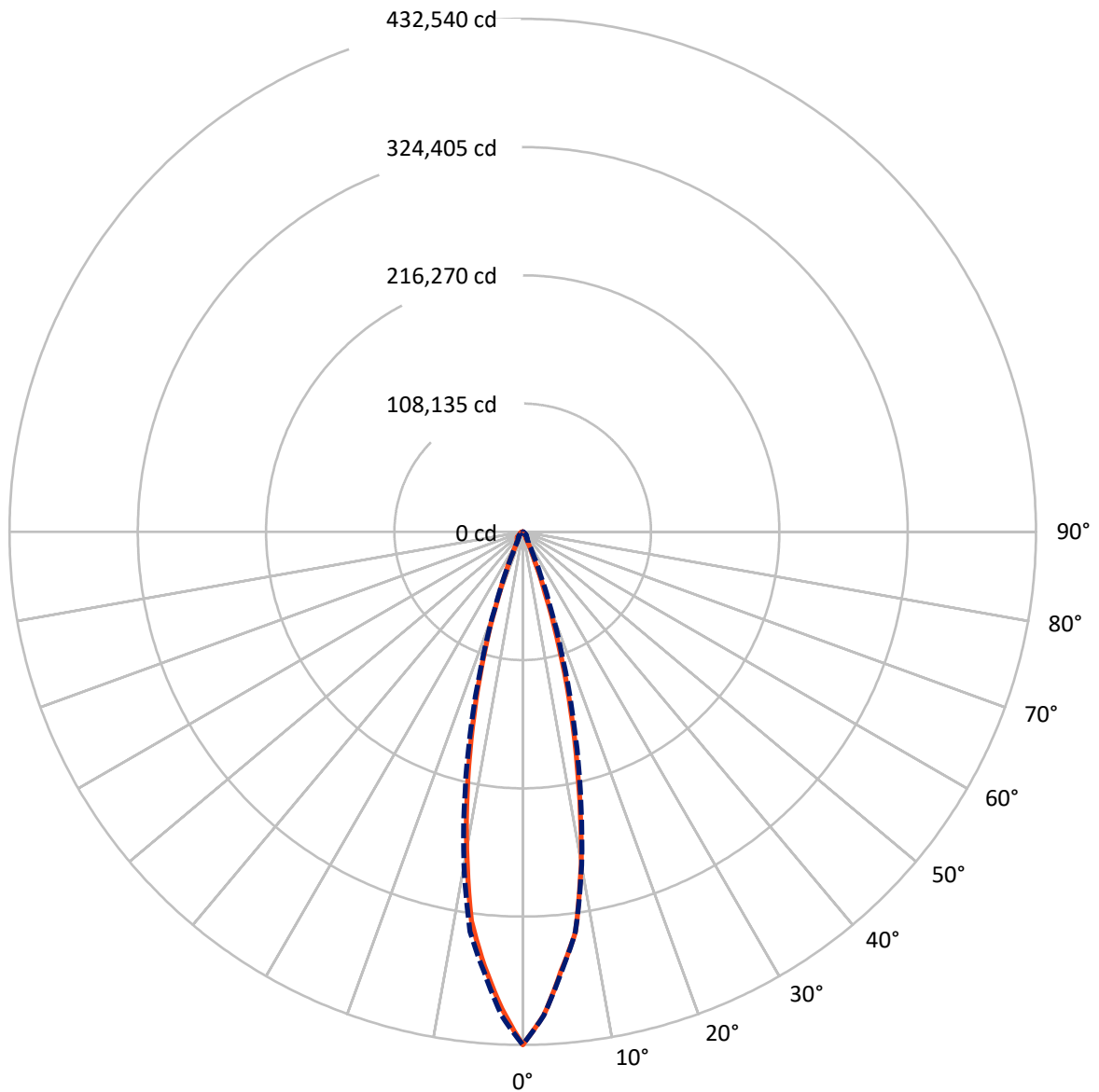
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Lumen Table

90	0.2	0.8	1.5	2.3	2.7	2.3	1.5	0.8	0.2									
80	0.2	0.8	1.5	2.3	2.7	2.3	1.5	0.8	0.2									
70	0.3	0.2	0.3	0.7	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.7	0.3	0.2	0.3		
60		0.4	0.9	1.2	1.1	1.1	1.4	1.7	1.7	1.4	1.1	1.1	1.2	0.9	0.4			
50	0.9	1.4	3.3	6.8	12.6	21.4	30.5	34.6	34.6	30.5	21.4	12.6	6.8	3.3	1.4	0.9		
40		3.4	10.3	21.3	40.1	66.4	80.3	94.2	94.2	80.3	66.4	40.1	21.3	10.3	3.4			
30	2.2	5.6	17.3	38.1	85.2	109.6	236.8	517.8	517.8	236.8	109.6	85.2	38.1	17.3	5.6	2.2		
20		7.4	22.8	61.9	122.3	295.7	1781.1	4306.1	4306.1	1781.1	295.7	122.3	61.9	22.8	7.4			
10	3.3	9.0	26.4	78.8	148.1	656.4	4326.1	9853.5	9853.5	4326.1	656.4	148.1	78.8	26.4	9.0	3.3		
0		9.9	29.1	83.4	164.1	676.5	4352.3	9751.2	9751.2	4352.3	676.5	164.1	83.4	29.1	9.9			
-10	3.6	10.0	30.0	80.5	163.5	362.7	1857.2	4346.3	4346.3	1857.2	362.7	163.5	80.5	30.0	10.0	3.6		
-20		9.2	28.6	63.7	147.2	222.2	385.0	732.1	732.1	385.0	222.2	147.2	63.7	28.6	9.2			
-30	3.0	7.9	24.5	50.9	101.7	177.7	219.3	243.5	243.5	219.3	177.7	101.7	50.9	24.5	7.9	3.0		
-40		6.1	18.7	39.5	64.4	95.0	139.2	173.5	173.5	139.2	95.0	64.4	39.5	18.7	6.1			
-50	2.5	4.1	12.1	25.8	43.3	59.0	71.6	79.4	79.4	71.6	59.0	43.3	25.8	12.1	4.1	2.5		
-60		2.9	6.4	13.3	22.5	31.1	39.2	44.2	44.2	39.2	31.1	22.5	13.3	6.4	2.9			
-70	1.8	10.6	24.6	40.1	49.2	40.1	24.6	10.6	1.8							1.8		
-80		10.6	24.6	40.1	49.2	40.1	24.6	10.6	1.8									
-90	1.8	10.6	24.6	40.1	49.2	40.1	24.6	10.6	1.8									

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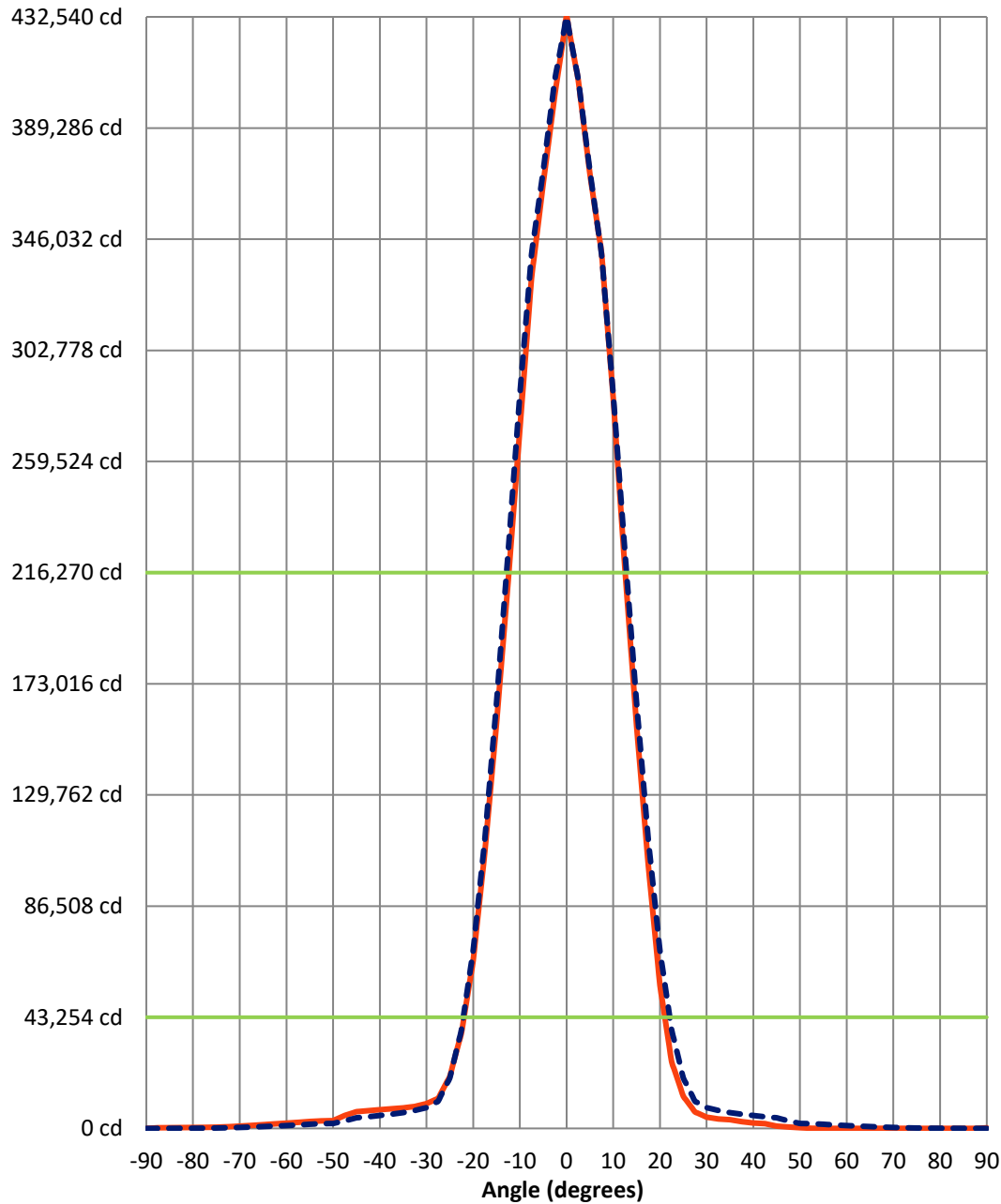
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 25.7°
 V Angle: 24.9°
 Lumens: 46496
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 81472.6
 Efficiency: 83.8%

Spill:
 Lumens: 15706.4
 Efficiency: 16.2%

— 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°	3.5	14.5	25.5	41.1	56.7	70.0	83.4	93.3	103.1	111.2	119.3
87.5°	3.5	3.8	3.7	3.8	3.9	3.9	3.8	3.4	3.1	3.0	2.8
85°	3.5	4.1	3.9	4.1	4.3	4.2	4.1	3.9	3.9	3.7	3.3
82.5°	3.5	4.3	4.1	4.4	4.7	4.6	4.4	4.4	4.6	4.3	3.8
80°	3.5	4.6	4.3	4.7	5.1	5.0	4.7	5.0	5.1	4.7	4.3
77.5°	3.5	4.9	4.6	5.0	5.5	5.5	5.4	5.5	5.5	5.2	4.9
75°	3.5	5.2	4.8	5.3	5.9	6.2	6.0	6.1	6.0	5.9	5.5
72.5°	3.5	5.5	5.1	5.6	6.6	6.8	6.7	6.8	7.0	6.7	6.2
70°	3.5	5.8	5.4	5.9	7.2	7.5	7.5	8.0	8.0	7.6	7.8
67.5°	3.5	6.0	5.7	6.6	7.9	8.2	8.9	9.3	9.1	9.6	9.7
65°	3.5	6.3	6.1	7.3	8.6	9.4	10.4	10.6	11.6	11.8	11.8
62.5°	3.5	6.6	6.5	8.0	9.4	10.9	12.0	12.9	14.2	14.2	14.2
60°	3.5	6.9	6.9	8.7	10.2	12.5	13.7	15.5	16.9	17.3	16.9
57.5°	3.5	7.3	7.7	9.4	11.7	14.2	16.3	18.4	20.5	20.9	23.0
55°	3.5	7.6	8.5	10.2	13.3	15.9	19.0	21.4	24.7	26.0	31.1
52.5°	3.5	7.9	9.3	10.9	15.0	17.8	21.7	25.6	29.2	35.9	39.9
50°	3.5	8.2	10.1	11.7	16.7	20.4	24.5	30.2	35.7	46.6	56.1
47.5°	3.5	8.5	11.0	12.6	18.4	23.0	27.5	35.0	46.6	58.3	75.6
45°	3.5	8.8	11.9	14.0	20.2	25.8	31.8	40.0	58.0	78.2	97.2
42.5°	3.5	9.1	12.8	15.3	22.0	28.7	36.2	48.2	69.8	99.6	130.2
40°	3.5	9.5	13.7	17.0	24.0	31.7	41.0	58.9	84.8	122.5	167.4
37.5°	3.5	9.8	14.6	18.9	26.4	34.7	46.3	69.8	105.8	149.8	207.3
35°	3.5	10.1	15.5	20.9	28.7	38.6	51.6	80.9	127.6	184.9	252.0
32.5°	3.5	10.4	16.5	22.8	31.0	42.8	58.4	92.5	150.2	220.1	296.3
30°	3.5	10.8	17.4	24.7	33.4	47.1	68.0	106.0	173.5	255.5	337.7
27.5°	3.5	11.1	18.4	26.7	36.4	51.4	77.5	123.7	197.1	290.8	376.2
25°	3.5	11.4	19.4	28.6	39.4	55.6	86.8	140.4	221.0	323.9	412.0
22.5°	3.5	11.7	20.3	30.5	42.3	59.9	95.9	156.1	242.9	346.3	451.1
20°	3.5	12.0	21.2	32.3	45.2	64.3	104.7	170.7	262.7	367.2	482.6
17.5°	3.5	12.3	22.2	34.1	48.0	68.4	112.9	184.2	280.4	386.3	512.2
15°	3.5	12.5	23.1	35.9	50.8	72.4	120.4	196.4	296.1	403.7	540.3
12.5°	3.5	12.8	23.9	37.6	53.4	76.2	127.4	207.3	312.0	419.3	566.4
10°	3.5	13.0	24.8	39.3	55.9	79.7	133.7	217.0	328.4	442.5	595.0
7.5°	3.5	13.3	25.6	40.9	58.3	83.0	139.5	225.6	343.4	465.9	630.7
5°	3.5	13.5	26.4	42.4	60.6	86.1	144.6	233.1	356.9	487.8	663.8
2.5°	3.5	13.7	27.1	43.9	62.8	88.9	149.0	239.3	368.7	507.9	693.7
0°	3.5	13.9	27.8	45.2	64.8	91.5	152.8	244.3	378.6	525.7	720.2
-2.5°	3.5	14.5	29.0	47.2	67.7	95.3	157.7	252.6	389.7	537.8	732.5
-5°	3.5	15.0	30.2	49.1	70.4	98.9	161.9	259.5	398.6	547.2	740.9
-7.5°	3.5	15.5	31.3	50.9	73.0	102.2	165.3	264.9	405.2	554.0	745.4
-10°	3.5	16.0	32.4	52.5	75.3	105.2	167.9	268.7	409.3	558.1	746.0
-12.5°	3.5	16.5	33.4	54.1	77.5	107.9	169.7	270.7	410.8	559.4	744.4
-15°	3.5	17.0	34.3	55.5	79.5	110.2	170.7	270.8	408.3	555.9	738.6
-17.5°	3.5	17.4	35.2	56.8	81.3	112.2	170.8	268.4	401.7	549.3	727.7
-20°	3.5	17.8	35.9	57.9	82.8	113.9	170.2	263.9	392.7	539.6	711.4



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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°	3.5	18.1	36.6	58.9	84.1	115.1	168.8	257.7	381.3	526.8	690.1
-25°	3.5	18.5	37.2	59.7	85.3	116.3	166.6	249.9	367.6	510.7	667.7
-27.5°	3.5	18.7	37.8	60.4	86.1	117.3	163.5	240.5	351.5	496.1	651.7
-30°	3.5	19.0	38.2	61.0	86.8	117.8	159.6	229.5	338.4	480.0	632.3
-32.5°	3.5	19.2	38.6	61.4	87.7	118.1	154.7	222.3	327.3	461.3	609.2
-35°	3.5	19.4	38.9	61.6	88.3	118.0	152.9	216.1	313.2	440.0	582.3
-37.5°	3.5	19.6	39.1	61.6	88.7	117.9	152.4	209.2	296.2	416.1	553.9
-40°	3.5	19.7	39.2	61.6	88.9	118.1	151.5	200.9	276.3	392.8	521.9
-42.5°	3.5	19.7	39.2	61.4	88.9	118.1	150.2	191.0	261.5	365.0	484.9
-45°	3.5	19.8	39.2	61.3	88.8	117.7	148.3	183.6	248.5	333.9	444.1
-47.5°	3.5	19.8	39.0	61.1	88.4	117.1	145.9	180.7	233.7	300.6	406.2
-50°	3.5	19.7	38.8	60.9	87.8	116.2	144.2	177.1	216.3	280.7	365.1
-52.5°	3.5	19.7	38.4	60.7	87.0	115.0	142.4	172.8	206.7	259.3	322.8
-55°	3.5	19.6	38.0	60.3	85.9	113.3	140.2	168.1	200.4	236.4	295.9
-57.5°	3.5	19.4	37.5	59.7	84.5	111.3	137.6	164.9	193.5	224.9	267.7
-60°	3.5	19.2	36.9	59.0	83.0	109.0	134.6	161.0	186.5	216.4	244.2
-62.5°	3.5	19.0	36.4	58.1	81.7	106.5	131.5	156.4	181.0	207.0	232.6
-65°	3.5	18.7	35.8	57.1	80.3	103.7	128.0	151.6	174.9	198.5	220.2
-67.5°	3.5	18.5	35.0	56.0	78.6	100.8	124.2	146.6	168.4	190.2	209.9
-70°	3.5	18.1	34.2	54.7	76.7	98.0	120.2	141.3	162.0	181.5	200.3
-72.5°	3.5	17.8	33.4	53.4	74.7	94.9	115.9	135.7	155.2	173.0	190.3
-75°	3.5	17.4	32.4	52.0	72.4	91.5	111.4	129.7	148.1	164.1	179.8
-77.5°	3.5	17.0	31.4	50.4	70.1	87.9	106.5	123.3	140.3	154.8	168.9
-80°	3.5	16.5	30.3	48.8	67.7	84.5	101.4	116.7	132.2	145.2	158.0
-82.5°	3.5	16.1	29.2	47.0	65.2	81.1	97.1	110.3	123.8	135.4	146.8
-85°	3.5	15.6	28.0	45.1	62.5	77.6	92.7	104.8	117.0	126.9	136.6
-87.5°	3.5	15.0	26.8	43.2	59.7	73.9	88.1	99.1	110.1	119.1	128.0
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	2.3	2.3	2.3



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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	125.7	132.0	137.8	143.6	148.8	154.0	161.0	167.9	173.1	178.3	183.5
87.5°	2.9	2.9	2.9	3.0	2.7	2.3	2.3	2.3	2.2	2.0	2.1
85°	3.4	3.5	3.5	3.5	3.0	2.7	2.7	2.8	2.9	2.9	2.7
82.5°	3.9	4.0	3.9	3.5	3.4	3.4	3.5	3.5	3.5	3.5	3.2
80°	4.4	4.6	4.2	3.9	4.0	4.1	3.9	3.6	3.5	3.6	3.7
77.5°	4.8	4.7	4.5	4.5	4.6	4.8	4.8	4.8	4.8	4.5	4.6
75°	5.2	4.8	4.9	4.8	4.8	5.4	5.8	5.8	5.6	5.4	5.5
72.5°	6.1	6.1	5.8	5.2	5.3	5.8	5.8	5.8	7.2	9.6	11.6
70°	7.6	7.5	7.0	6.6	6.4	6.8	8.8	12.0	15.6	18.8	22.0
67.5°	9.2	9.0	8.5	8.4	9.6	11.6	14.0	22.2	30.7	33.6	34.2
65°	10.9	10.6	10.7	12.0	13.7	19.5	27.0	36.8	45.0	44.4	41.0
62.5°	12.8	14.4	14.4	17.3	22.9	30.0	38.6	47.1	54.4	50.9	42.4
60°	18.3	19.4	22.0	27.3	33.2	40.1	49.2	51.9	53.7	52.4	41.2
57.5°	25.3	28.2	33.7	38.6	45.7	48.8	49.5	49.0	52.2	50.0	38.7
55°	35.3	40.5	47.9	52.9	57.0	51.0	50.3	53.5	53.1	48.6	37.6
52.5°	50.5	55.9	66.2	69.9	66.6	61.8	60.2	63.1	60.8	54.7	47.4
50°	67.0	80.0	86.8	89.7	83.8	83.2	77.2	81.0	84.2	81.3	91.5
47.5°	92.0	107.8	112.7	118.1	115.3	125.9	120.4	140.4	141.7	200.0	217.4
45°	122.2	143.3	149.2	163.1	178.5	197.0	229.0	237.4	333.3	391.6	460.6
42.5°	158.6	185.2	209.1	217.1	285.9	323.2	371.2	460.3	549.5	622.7	674.0
40°	205.5	232.5	283.1	343.4	416.6	480.1	571.7	674.8	759.8	816.0	842.5
37.5°	257.1	310.0	376.2	473.8	562.7	643.4	760.5	863.8	939.1	991.1	997.8
35°	312.6	387.6	496.1	594.9	686.8	796.1	912.3	1031.0	1092.8	1115.2	1210.9
32.5°	377.3	463.3	591.7	699.0	802.5	926.4	1050.0	1152.5	1207.1	1270.4	1594.3
30°	438.4	542.6	670.4	784.5	912.7	1053.8	1172.0	1268.7	1306.4	1639.1	2163.0
27.5°	487.2	611.5	739.8	877.5	1024.6	1185.9	1305.1	1367.9	1583.7	2076.1	2833.5
25°	532.7	666.5	809.8	981.8	1149.1	1309.0	1430.3	1470.5	1919.2	2754.2	3318.7
22.5°	577.2	720.1	887.1	1092.2	1263.5	1412.8	1514.2	1757.2	2400.4	3457.8	3750.9
20°	621.7	783.5	971.1	1175.6	1364.5	1503.9	1581.8	2059.7	2984.6	3728.2	4057.9
17.5°	664.6	847.4	1048.2	1245.7	1436.3	1577.6	1678.3	2314.8	3447.4	3970.8	4295.3
15°	706.4	901.9	1107.6	1311.7	1506.1	1642.1	1915.4	2689.0	3734.8	4264.2	4607.0
12.5°	746.5	948.5	1151.4	1368.8	1573.6	1704.8	2161.3	3142.6	4034.7	4553.3	4923.9
10°	784.3	987.6	1189.5	1421.0	1636.3	1759.3	2392.2	3566.3	4309.1	4759.1	5095.0
7.5°	822.4	1023.0	1224.0	1468.1	1695.4	1809.0	2587.4	3798.2	4416.9	4895.0	5215.7
5°	856.0	1055.6	1264.8	1526.2	1752.8	1854.7	2752.2	3954.2	4451.0	4962.9	5302.6
2.5°	884.8	1082.8	1300.5	1580.4	1804.3	1896.2	2864.5	4073.1	4492.2	5011.2	5410.5
0°	909.0	1104.7	1330.5	1626.9	1848.1	1933.8	2938.9	4137.3	4518.3	5032.4	5530.3
-2.5°	926.7	1133.9	1378.4	1666.3	1884.0	1973.0	2962.3	4164.8	4556.2	5149.2	5799.2
-5°	939.8	1157.3	1418.4	1697.7	1913.3	2009.2	2945.5	4139.2	4601.5	5257.1	5970.0
-7.5°	948.0	1174.1	1449.3	1721.1	1937.7	2050.0	2895.3	4109.7	4743.4	5392.5	6056.0
-10°	951.8	1182.8	1454.0	1729.9	1957.2	2090.8	2809.5	4010.0	4845.9	5444.1	6063.1
-12.5°	955.1	1184.6	1448.3	1728.4	1969.4	2128.2	2701.5	3890.2	4940.4	5463.5	6019.2
-15°	952.2	1181.0	1435.5	1717.6	1984.9	2175.4	2563.4	3667.9	4982.5	5443.1	5936.8
-17.5°	942.6	1171.9	1417.9	1703.8	1994.8	2219.3	2382.4	3325.5	4756.0	5380.4	5874.0
-20°	926.2	1155.6	1392.6	1677.2	1989.4	2238.4	2377.8	3074.9	4281.4	5256.9	5780.6



REPORT NUMBER: P701566 (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°	904.5	1132.3	1362.5	1642.0	1958.1	2230.5	2410.9	2798.7	3743.6	5076.0	5640.0
-25°	879.1	1102.8	1331.6	1604.0	1914.4	2215.6	2429.2	2544.2	3299.1	4463.1	5416.6
-27.5°	849.8	1067.7	1296.3	1553.4	1857.3	2171.0	2399.5	2551.3	2937.7	3762.2	5077.1
-30°	815.2	1027.1	1250.7	1494.6	1787.5	2086.8	2348.8	2542.0	2655.0	3283.9	4341.1
-32.5°	776.0	980.4	1198.8	1438.2	1708.6	1996.3	2273.2	2482.2	2637.1	2843.0	3648.2
-35°	738.6	932.7	1141.2	1374.7	1624.0	1894.2	2154.2	2400.8	2594.8	2727.5	3054.8
-37.5°	705.6	880.7	1080.9	1305.8	1545.9	1777.1	2025.5	2279.6	2502.1	2685.5	2801.4
-40°	667.8	824.6	1018.8	1231.4	1445.2	1658.8	1890.7	2133.4	2378.5	2579.9	2756.6
-42.5°	625.5	777.3	951.3	1144.7	1341.2	1543.0	1749.4	1979.3	2210.3	2440.0	2626.3
-45°	578.6	724.6	879.2	1053.1	1231.3	1421.6	1617.3	1816.0	2034.5	2251.2	2455.1
-47.5°	525.8	666.1	813.4	955.4	1120.9	1295.6	1478.2	1665.6	1852.6	2051.7	2248.5
-50°	470.6	600.9	736.9	866.9	1008.3	1167.3	1335.1	1509.5	1685.9	1852.9	2026.1
-52.5°	419.6	529.8	654.3	779.0	903.1	1038.3	1189.9	1347.5	1510.7	1673.3	1819.8
-55°	364.4	463.6	567.0	684.7	803.4	920.3	1043.4	1186.0	1324.6	1474.1	1618.0
-57.5°	323.3	396.2	486.8	584.6	695.8	808.8	917.8	1025.2	1146.0	1271.1	1398.1
-60°	290.4	341.6	410.8	494.2	581.7	686.1	793.2	892.3	983.6	1076.7	1191.7
-62.5°	259.9	302.0	350.2	408.2	484.3	561.8	654.0	748.5	837.2	922.4	1008.0
-65°	245.2	267.2	303.7	347.0	390.5	456.6	527.1	599.5	680.9	759.0	838.5
-67.5°	229.6	250.6	270.7	294.4	333.6	372.1	410.2	473.9	537.6	595.1	652.9
-70°	217.6	234.1	252.3	269.9	287.6	310.3	345.0	380.6	415.1	453.2	501.7
-72.5°	205.9	220.6	235.3	249.5	265.6	281.8	298.4	315.8	341.1	370.6	397.1
-75°	193.9	206.7	219.6	232.4	245.6	259.1	273.2	288.5	304.2	320.0	334.2
-77.5°	181.7	193.7	204.7	215.5	226.8	238.8	251.3	263.9	276.8	289.8	300.9
-80°	169.2	180.5	190.2	199.6	209.3	219.2	229.9	240.8	251.6	262.6	272.2
-82.5°	156.5	166.1	174.8	183.2	191.6	199.8	209.1	218.6	228.0	237.4	245.5
-85°	144.1	151.5	158.9	166.3	173.6	180.8	189.2	197.5	205.3	213.2	220.1
-87.5°	134.9	141.8	148.0	154.2	160.0	165.8	173.0	180.1	186.3	192.4	198.2
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	188.7	192.2	195.7	198.6	201.5	205.6	209.6	215.4	221.2	228.2	235.1
87.5°	2.1	2.1	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.7	2.3
85°	2.3	2.3	2.3	2.6	3.1	3.1	3.2	3.3	3.3	3.4	3.5
82.5°	2.9	2.9	3.0	3.3	3.5	3.5	3.5	3.5	3.5	4.0	4.5
80°	3.8	3.9	4.0	4.1	4.2	3.9	3.5	3.5	3.5	4.0	4.6
77.5°	4.7	4.8	4.6	4.4	4.1	3.8	3.5	3.5	3.5	3.6	3.6
75°	5.7	5.8	6.1	6.5	7.1	7.2	6.7	6.8	7.1	7.0	6.7
72.5°	12.8	13.1	13.1	14.6	16.1	16.6	17.0	18.2	19.5	21.3	23.3
70°	24.9	27.4	28.5	28.5	27.4	26.7	26.2	26.0	26.5	27.7	29.2
67.5°	35.9	36.9	36.5	36.0	33.8	31.2	28.3	26.8	27.4	28.8	30.6
65°	40.5	37.3	35.1	34.2	32.2	29.0	24.6	21.6	20.9	20.5	20.3
62.5°	36.4	30.7	28.0	26.5	23.7	21.0	16.9	13.7	12.6	11.8	11.6
60°	31.8	24.7	20.3	18.3	15.3	11.8	9.7	7.5	6.7	6.2	6.4
57.5°	27.6	20.4	15.4	14.5	11.7	9.2	7.4	5.5	4.9	4.6	4.8
55°	28.4	24.8	20.7	18.6	15.5	14.1	12.4	11.2	10.3	10.5	11.1
52.5°	40.2	43.2	38.0	36.6	45.6	45.7	37.7	50.0	57.6	63.2	64.8
50°	103.7	102.9	136.8	131.1	162.4	187.9	189.0	204.5	234.2	254.4	265.4
47.5°	275.3	306.3	345.8	387.2	419.6	460.0	501.0	531.6	539.1	539.8	545.2
45°	518.4	562.5	621.9	665.5	726.8	764.5	795.9	824.3	889.9	950.3	1020.7
42.5°	723.9	772.1	833.7	922.2	986.7	1159.0	1422.8	1487.7	1496.9	1550.6	1628.7
40°	886.1	949.3	1086.1	1279.9	1693.0	2063.6	2130.4	2186.0	2210.5	2180.7	2233.8
37.5°	1082.5	1230.7	1538.5	2068.7	2264.5	2365.4	2436.4	2479.0	2530.8	2578.6	2604.6
35°	1408.5	1821.5	2091.3	2374.5	2502.6	2553.6	2605.8	2658.3	2699.0	2752.0	2794.3
32.5°	2077.8	2537.6	2564.7	2634.6	2701.4	2767.9	2816.5	2866.6	2910.0	2978.6	3122.6
30°	2752.1	2852.3	2876.9	2883.2	2944.1	3023.8	3066.0	3167.0	3303.3	3459.6	3792.3
27.5°	3111.0	3180.0	3194.4	3201.2	3229.6	3323.9	3498.5	3636.4	3963.6	4360.7	5215.6
25°	3548.1	3597.1	3649.1	3646.9	3690.1	3857.0	4198.6	4489.6	5594.9	6629.2	8857.5
22.5°	3965.1	4113.4	4187.3	4286.4	4432.7	4736.5	5335.9	7019.5	9834.5	13426.9	17899.1
20°	4254.9	4454.4	4653.3	4929.7	5283.3	5913.8	7786.3	12824.4	18841.0	27571.3	34893.8
17.5°	4547.2	4772.6	5124.3	5550.7	6144.6	8261.7	13751.3	22305.8	34661.4	50160.6	63759.7
15°	4928.3	5195.9	5666.8	6275.5	7935.2	12454.3	21611.8	37177.5	55960.5	77748.0	100602.9
12.5°	5187.9	5556.5	6116.5	6902.5	9626.8	18090.5	32835.1	54173.9	80025.6	107478.5	143909.7
10°	5379.7	5820.6	6581.0	8210.8	13150.7	24311.8	42030.0	68660.6	104102.5	145942.7	187594.4
7.5°	5540.8	6134.5	7089.2	9142.9	16191.0	30262.4	52847.6	85215.9	127149.7	177565.1	226002.4
5°	5685.6	6472.6	7578.3	10147.5	18915.2	34570.9	60041.7	97579.8	146139.5	201201.5	254679.6
2.5°	5877.0	6789.2	7895.5	10424.0	20005.7	36958.3	65742.0	107563.3	159698.0	217619.5	275803.9
0°	6142.9	6995.1	8089.4	10600.9	19666.4	38454.0	69235.5	112573.8	165639.8	224515.2	285541.0
-2.5°	6352.0	7113.7	8202.4	10458.4	19500.6	37750.5	67658.9	109653.1	159822.7	216713.4	277587.4
-5°	6487.0	7198.8	8251.8	10511.7	19082.2	35061.8	63002.0	102000.7	147976.7	199331.5	255621.6
-7.5°	6566.1	7229.9	8200.5	10176.5	17181.6	31399.0	54713.1	87895.6	129139.8	176660.7	223180.7
-10°	6613.4	7209.8	8093.1	9702.3	14452.2	25517.3	43194.7	71317.7	107053.5	145345.3	183397.0
-12.5°	6631.2	7167.2	7941.7	9023.2	11587.2	19976.9	34384.6	54343.5	80870.5	112281.5	145811.2
-15°	6596.4	7105.3	7795.4	8731.8	10437.6	14975.7	23993.0	37567.4	57339.7	81321.9	105619.3
-17.5°	6466.9	7041.4	7578.7	8297.6	9301.7	11441.8	16929.9	25642.9	37700.5	53552.5	67570.6
-20°	6295.2	6920.9	7380.8	8016.3	8804.7	9784.2	11544.2	16861.7	23622.7	32800.0	41949.3



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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°	6142.4	6714.8	7293.1	7729.3	8346.7	8990.6	9785.4	11306.5	14703.9	19285.6	25085.7
-25°	6001.4	6525.4	7118.8	7590.5	7938.8	8393.9	8891.8	9424.8	10578.8	11660.8	14458.8
-27.5°	5802.8	6345.7	6860.3	7363.8	7699.4	7906.0	8245.3	8576.5	9059.8	9489.6	10311.3
-30°	5571.9	6103.0	6592.7	7050.1	7394.0	7611.2	7779.5	8007.2	8263.0	8523.2	8876.3
-32.5°	4748.9	5818.0	6273.8	6686.8	7041.5	7296.9	7475.0	7624.6	7772.2	7938.8	8124.9
-35°	3847.4	4903.2	5931.9	6253.8	6589.0	6927.2	7191.4	7332.5	7461.0	7577.7	7691.6
-37.5°	3128.1	3873.0	4796.3	5673.7	6081.1	6422.6	6740.1	6986.7	7166.8	7276.1	7378.5
-40°	2846.6	3035.3	3745.4	4468.1	5162.9	5793.8	6116.7	6481.2	6777.4	6938.0	7049.5
-42.5°	2779.3	2866.0	2932.2	3390.1	3942.8	4474.8	5063.5	5647.8	6106.4	6412.1	6639.5
-45°	2631.8	2756.6	2855.5	2896.3	2921.3	3309.1	3765.0	4211.3	4726.2	5258.2	5741.1
-47.5°	2423.0	2585.1	2696.8	2784.2	2836.5	2852.9	2885.0	2985.1	3358.9	3752.1	4126.4
-50°	2190.0	2338.5	2472.4	2594.0	2666.4	2725.1	2781.2	2835.0	2880.6	2938.2	2990.0
-52.5°	1955.3	2091.6	2211.9	2318.7	2414.6	2507.1	2596.1	2662.6	2727.6	2797.4	2854.1
-55°	1746.4	1856.8	1957.7	2051.4	2137.9	2216.1	2296.6	2382.5	2471.5	2558.4	2626.0
-57.5°	1523.0	1628.6	1724.1	1803.5	1873.2	1931.5	2005.4	2085.9	2169.6	2247.1	2306.0
-60°	1297.7	1391.1	1478.5	1555.4	1621.5	1675.8	1744.1	1812.2	1886.9	1953.2	2005.6
-62.5°	1083.7	1162.5	1236.7	1303.9	1364.0	1419.1	1479.7	1540.5	1610.7	1672.4	1722.5
-65°	905.8	966.9	1017.7	1065.4	1102.5	1150.2	1208.8	1265.0	1326.1	1379.5	1424.1
-67.5°	713.2	769.5	816.1	857.7	890.4	924.5	967.9	1012.6	1060.0	1102.4	1139.9
-70°	545.0	582.8	613.0	644.1	677.6	710.2	744.9	783.2	822.9	858.0	888.8
-72.5°	420.4	439.1	456.8	482.1	504.5	527.2	549.1	576.6	606.1	632.7	656.8
-75°	347.3	358.9	372.4	384.4	394.8	406.9	419.0	436.8	456.2	474.5	491.7
-77.5°	311.6	320.0	326.8	332.3	337.2	344.5	352.3	365.6	379.9	395.4	410.8
-80°	281.3	287.7	293.4	298.3	302.8	308.8	315.0	326.7	338.9	352.0	364.9
-82.5°	253.3	258.4	263.0	267.4	271.7	276.9	282.0	292.2	302.8	313.6	324.4
-85°	227.0	231.3	235.3	239.0	242.5	246.9	251.3	260.0	268.8	278.1	287.2
-87.5°	203.9	207.8	211.7	215.0	218.2	222.1	225.9	233.6	241.3	249.0	256.7
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P701566 (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°
90°	235.7	236.2	236.8	237.4	236.8	236.2	235.7	235.1	228.2	221.2	215.4
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.2	1.2
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.3
82.5°	4.0	3.5	4.0	4.6	4.0	3.5	4.0	4.5	4.0	3.5	3.5
80°	4.1	3.5	4.0	4.6	4.0	3.5	4.1	4.6	4.0	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.5
75°	5.7	4.7	4.1	3.5	4.1	4.7	5.7	6.7	7.0	7.1	6.8
72.5°	23.8	23.8	24.2	24.3	24.2	23.8	23.8	23.3	21.3	19.5	18.2
70°	30.2	31.0	31.2	31.3	31.2	31.0	30.2	29.2	27.7	26.5	26.0
67.5°	30.8	30.2	29.6	28.9	29.6	30.2	30.8	30.6	28.8	27.4	26.8
65°	19.3	18.0	16.0	13.9	16.0	18.0	19.3	20.3	20.5	20.9	21.6
62.5°	11.2	10.7	10.5	10.4	10.5	10.7	11.2	11.6	11.8	12.6	13.7
60°	6.6	6.9	6.9	6.9	6.9	6.9	6.6	6.4	6.2	6.7	7.5
57.5°	5.0	5.6	6.3	6.9	6.3	5.6	5.0	4.8	4.6	4.9	5.5
55°	11.8	13.1	13.8	13.9	13.8	13.1	11.8	11.1	10.5	10.3	11.2
52.5°	62.6	59.4	56.6	54.4	56.6	59.4	62.6	64.8	63.2	57.6	50.0
50°	270.3	277.3	280.6	280.2	280.6	277.3	270.3	265.4	254.4	234.2	204.5
47.5°	556.7	560.6	557.4	548.9	557.4	560.6	556.7	545.2	539.8	539.1	531.6
45°	1106.8	1058.8	973.7	898.6	973.7	1058.8	1106.8	1020.7	950.3	889.9	824.3
42.5°	1732.5	1790.0	1833.0	1852.7	1833.0	1790.0	1732.5	1628.7	1550.6	1496.9	1487.7
40°	2174.1	2112.9	2100.5	2109.8	2100.5	2112.9	2174.1	2233.8	2180.7	2210.5	2186.0
37.5°	2611.2	2666.9	2708.2	2641.3	2708.2	2666.9	2611.2	2604.6	2578.6	2530.8	2479.0
35°	2892.7	3090.9	3323.5	3393.9	3323.5	3090.9	2892.7	2794.3	2752.0	2699.0	2658.3
32.5°	3363.7	3572.9	3663.4	3685.7	3663.4	3572.9	3363.7	3122.6	2978.6	2910.0	2866.6
30°	4112.9	4321.8	4359.4	4389.7	4359.4	4321.8	4112.9	3792.3	3459.6	3303.3	3167.0
27.5°	5782.9	6250.4	6361.3	6439.3	6361.3	6250.4	5782.9	5215.6	4360.7	3963.6	3636.4
25°	10616.6	11832.6	12626.8	12549.8	12626.8	11832.6	10616.6	8857.5	6629.2	5594.9	4489.6
22.5°	22379.9	24766.7	26040.4	26017.7	26040.4	24766.7	22379.9	17899.1	13426.9	9834.5	7019.5
20°	45326.1	52388.5	56211.1	55775.6	56211.1	52388.5	45326.1	34893.8	27571.3	18841.0	12824.4
17.5°	79034.2	92674.6	102204.2	102594.6	102204.2	92674.6	79034.2	63759.7	50160.6	34661.4	22305.8
15°	122210.4	142449.5	156737.1	156735.3	156737.1	142449.5	122210.4	100602.9	77748.0	55960.5	37177.5
12.5°	174758.3	198950.7	215298.0	217749.5	215298.0	198950.7	174758.3	143909.7	107478.5	80025.6	54173.9
10°	225190.5	252593.1	277306.6	284111.0	277306.6	252593.1	225190.5	187594.4	145942.7	104102.5	68660.6
7.5°	267877.2	310983.8	333495.3	340585.5	333495.3	310983.8	267877.2	226002.4	177565.1	127149.7	85215.9
5°	309776.9	347089.3	365989.6	371461.3	365989.6	347089.3	309776.9	254679.6	201201.5	146139.5	97579.8
2.5°	331817.5	366066.5	392631.2	408037.2	392631.2	366066.5	331817.5	275803.9	217619.5	159698.0	107563.3
0°	340110.1	372649.3	408275.1	432540.3	408275.1	372649.3	340110.1	285541.0	224515.2	165639.8	112573.8
-2.5°	331815.7	363301.4	389555.3	402337.2	389555.3	363301.4	331815.7	277587.4	216713.4	159822.7	109653.1
-5°	306672.6	343706.8	362821.7	367660.9	362821.7	343706.8	306672.6	255621.6	199331.5	147976.7	102000.7
-7.5°	266515.4	302133.0	325569.1	330847.7	325569.1	302133.0	266515.4	223180.7	176660.7	129139.8	87895.6
-10°	221808.8	252232.2	268042.9	271952.6	268042.9	252232.2	221808.8	183397.0	145345.3	107053.5	71317.7
-12.5°	172350.3	194661.5	210800.9	212991.5	210800.9	194661.5	172350.3	145811.2	112281.5	80870.5	54343.5
-15°	128288.2	143043.7	156055.3	157550.4	156055.3	143043.7	128288.2	105619.3	81321.9	57339.7	37567.4
-17.5°	85946.5	98162.7	105443.0	107543.7	105443.0	98162.7	85946.5	67570.6	53552.5	37700.5	25642.9
-20°	51496.1	60237.8	65089.6	65271.9	65089.6	60237.8	51496.1	41949.3	32800.0	23622.7	16861.7



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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°	29875.6	34739.5	37306.5	37256.7	37306.5	34739.5	29875.6	25085.7	19285.6	14703.9	11306.5
-25°	17229.8	19359.5	20209.4	20239.6	20209.4	19359.5	17229.8	14458.8	11660.8	10578.8	9424.8
-27.5°	10971.0	11459.8	11655.6	11687.1	11655.6	11459.8	10971.0	10311.3	9489.6	9059.8	8576.5
-30°	9198.2	9484.2	9615.8	9652.6	9615.8	9484.2	9198.2	8876.3	8523.2	8263.0	8007.2
-32.5°	8299.6	8457.2	8563.5	8547.9	8563.5	8457.2	8299.6	8124.9	7938.8	7772.2	7624.6
-35°	7802.8	7900.3	7960.0	7988.6	7960.0	7900.3	7802.8	7691.6	7577.7	7461.0	7332.5
-37.5°	7480.7	7567.9	7624.3	7641.2	7624.3	7567.9	7480.7	7378.5	7276.1	7166.8	6986.7
-40°	7145.4	7218.0	7264.4	7281.1	7264.4	7218.0	7145.4	7049.5	6938.0	6777.4	6481.2
-42.5°	6783.6	6861.6	6898.7	6899.0	6898.7	6861.6	6783.6	6639.5	6412.1	6106.4	5647.8
-45°	6137.3	6377.3	6497.5	6503.0	6497.5	6377.3	6137.3	5741.1	5258.2	4726.2	4211.3
-47.5°	4467.0	4704.1	4894.8	5035.9	4894.8	4704.1	4467.0	4126.4	3752.1	3358.9	2985.1
-50°	3035.4	3051.0	3052.0	3038.4	3052.0	3051.0	3035.4	2990.0	2938.2	2880.6	2835.0
-52.5°	2898.4	2914.6	2926.5	2933.1	2926.5	2914.6	2898.4	2854.1	2797.4	2727.6	2662.6
-55°	2675.9	2696.4	2704.8	2701.5	2704.8	2696.4	2675.9	2626.0	2558.4	2471.5	2382.5
-57.5°	2345.4	2358.9	2365.2	2363.4	2365.2	2358.9	2345.4	2306.0	2247.1	2169.6	2085.9
-60°	2037.6	2047.6	2053.4	2053.0	2053.4	2047.6	2037.6	2005.6	1953.2	1886.9	1812.2
-62.5°	1750.6	1759.5	1766.1	1767.0	1766.1	1759.5	1750.6	1722.5	1672.4	1610.7	1540.5
-65°	1446.5	1453.2	1457.5	1456.7	1457.5	1453.2	1446.5	1424.1	1379.5	1326.1	1265.0
-67.5°	1156.3	1161.0	1165.0	1164.9	1165.0	1161.0	1156.3	1139.9	1102.4	1060.0	1012.6
-70°	898.6	899.0	900.9	899.7	900.9	899.0	898.6	888.8	858.0	822.9	783.2
-72.5°	662.3	661.7	661.3	658.9	661.3	661.7	662.3	656.8	632.7	606.1	576.6
-75°	493.4	491.7	490.0	487.5	490.0	491.7	493.4	491.7	474.5	456.2	436.8
-77.5°	412.6	412.5	409.8	406.4	409.8	412.5	412.6	410.8	395.4	379.9	365.6
-80°	365.7	365.3	364.0	362.4	364.0	365.3	365.7	364.9	352.0	338.9	326.7
-82.5°	325.5	326.1	325.8	325.4	325.8	326.1	325.5	324.4	313.6	302.8	292.2
-85°	288.4	289.3	288.8	288.3	288.8	289.3	288.4	287.2	278.1	268.8	260.0
-87.5°	257.5	258.1	258.2	258.2	258.2	258.1	257.5	256.7	249.0	241.3	233.6
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	209.6	205.6	201.5	198.6	195.7	192.2	188.7	183.5	178.3	173.1	167.9
87.5°	1.2	1.2	1.2	1.7	2.2	2.1	2.1	2.1	2.0	2.2	2.3
85°	3.2	3.1	3.1	2.6	2.3	2.3	2.3	2.7	2.9	2.9	2.8
82.5°	3.5	3.5	3.5	3.3	3.0	2.9	2.9	3.2	3.5	3.5	3.5
80°	3.5	3.9	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.6
77.5°	3.5	3.8	4.1	4.4	4.6	4.8	4.7	4.6	4.5	4.8	4.8
75°	6.7	7.2	7.1	6.5	6.1	5.8	5.7	5.5	5.4	5.6	5.8
72.5°	17.0	16.6	16.1	14.6	13.1	13.1	12.8	11.6	9.6	7.2	5.8
70°	26.2	26.7	27.4	28.5	28.5	27.4	24.9	22.0	18.8	15.6	12.0
67.5°	28.3	31.2	33.8	36.0	36.5	36.9	35.9	34.2	33.6	30.7	22.2
65°	24.6	29.0	32.2	34.2	35.1	37.3	40.5	41.0	44.4	45.0	36.8
62.5°	16.9	21.0	23.7	26.5	28.0	30.7	36.4	42.4	50.9	54.4	47.1
60°	9.7	11.8	15.3	18.3	20.3	24.7	31.8	41.2	52.4	53.7	51.9
57.5°	7.4	9.2	11.7	14.5	15.4	20.4	27.6	38.7	50.0	52.2	49.0
55°	12.4	14.1	15.5	18.6	20.7	24.8	28.4	37.6	48.6	53.1	53.5
52.5°	37.7	45.7	45.6	36.6	38.0	43.2	40.2	47.4	54.7	60.8	63.1
50°	189.0	187.9	162.4	131.1	136.8	102.9	103.7	91.5	81.3	84.2	81.0
47.5°	501.0	460.0	419.6	387.2	345.8	306.3	275.3	217.4	200.0	141.7	140.4
45°	795.9	764.5	726.8	665.5	621.9	562.5	518.4	460.6	391.6	333.3	237.4
42.5°	1422.8	1159.0	986.7	922.2	833.7	772.1	723.9	674.0	622.7	549.5	460.3
40°	2130.4	2063.6	1693.0	1279.9	1086.1	949.3	886.1	842.5	816.0	759.8	674.8
37.5°	2436.4	2365.4	2264.5	2068.7	1538.5	1230.7	1082.5	997.8	991.1	939.1	863.8
35°	2605.8	2553.6	2502.6	2374.5	2091.3	1821.5	1408.5	1210.9	1115.2	1092.8	1031.0
32.5°	2816.5	2767.9	2701.4	2634.6	2564.7	2537.6	2077.8	1594.3	1270.4	1207.1	1152.5
30°	3066.0	3023.8	2944.1	2883.2	2876.9	2852.3	2752.1	2163.0	1639.1	1306.4	1268.7
27.5°	3498.5	3323.9	3229.6	3201.2	3194.4	3180.0	3111.0	2833.5	2076.1	1583.7	1367.9
25°	4198.6	3857.0	3690.1	3646.9	3649.1	3597.1	3548.1	3318.7	2754.2	1919.2	1470.5
22.5°	5335.9	4736.5	4432.7	4286.4	4187.3	4113.4	3965.1	3750.9	3457.8	2400.4	1757.2
20°	7786.3	5913.8	5283.3	4929.7	4653.3	4454.4	4254.9	4057.9	3728.2	2984.6	2059.7
17.5°	13751.3	8261.7	6144.6	5550.7	5124.3	4772.6	4547.2	4295.3	3970.8	3447.4	2314.8
15°	21611.8	12454.3	7935.2	6275.5	5666.8	5195.9	4928.3	4607.0	4264.2	3734.8	2689.0
12.5°	32835.1	18090.5	9626.8	6902.5	6116.5	5556.5	5187.9	4923.9	4553.3	4034.7	3142.6
10°	42030.0	24311.8	13150.7	8210.8	6581.0	5820.6	5379.7	5095.0	4759.1	4309.1	3566.3
7.5°	52847.6	30262.4	16191.0	9142.9	7089.2	6134.5	5540.8	5215.7	4895.0	4416.9	3798.2
5°	60041.7	34570.9	18915.2	10147.5	7578.3	6472.6	5685.6	5302.6	4962.9	4451.0	3954.2
2.5°	65742.0	36958.3	20005.7	10424.0	7895.5	6789.2	5877.0	5410.5	5011.2	4492.2	4073.1
0°	69235.5	38454.0	19666.4	10600.9	8089.4	6995.1	6142.9	5530.3	5032.4	4518.3	4137.3
-2.5°	67658.9	37750.5	19500.6	10458.4	8202.4	7113.7	6352.0	5799.2	5149.2	4556.2	4164.8
-5°	63002.0	35061.8	19082.2	10511.7	8251.8	7198.8	6487.0	5970.0	5257.1	4601.5	4139.2
-7.5°	54713.1	31399.0	17181.6	10176.5	8200.5	7229.9	6566.1	6056.0	5392.5	4743.4	4109.7
-10°	43194.7	25517.3	14452.2	9702.3	8093.1	7209.8	6613.4	6063.1	5444.1	4845.9	4010.0
-12.5°	34384.6	19976.9	11587.2	9023.2	7941.7	7167.2	6631.2	6019.2	5463.5	4940.4	3890.2
-15°	23993.0	14975.7	10437.6	8731.8	7795.4	7105.3	6596.4	5936.8	5443.1	4982.5	3667.9
-17.5°	16929.9	11441.8	9301.7	8297.6	7578.7	7041.4	6466.9	5874.0	5380.4	4756.0	3325.5
-20°	11544.2	9784.2	8804.7	8016.3	7380.8	6920.9	6295.2	5780.6	5256.9	4281.4	3074.9



REPORT NUMBER: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	9785.4	8990.6	8346.7	7729.3	7293.1	6714.8	6142.4	5640.0	5076.0	3743.6	2798.7
-25°	8891.8	8393.9	7938.8	7590.5	7118.8	6525.4	6001.4	5416.6	4463.1	3299.1	2544.2
-27.5°	8245.3	7906.0	7699.4	7363.8	6860.3	6345.7	5802.8	5077.1	3762.2	2937.7	2551.3
-30°	7779.5	7611.2	7394.0	7050.1	6592.7	6103.0	5571.9	4341.1	3283.9	2655.0	2542.0
-32.5°	7475.0	7296.9	7041.5	6686.8	6273.8	5818.0	4748.9	3648.2	2843.0	2637.1	2482.2
-35°	7191.4	6927.2	6589.0	6253.8	5931.9	4903.2	3847.4	3054.8	2727.5	2594.8	2400.8
-37.5°	6740.1	6422.6	6081.1	5673.7	4796.3	3873.0	3128.1	2801.4	2685.5	2502.1	2279.6
-40°	6116.7	5793.8	5162.9	4468.1	3745.4	3035.3	2846.6	2756.6	2579.9	2378.5	2133.4
-42.5°	5063.5	4474.8	3942.8	3390.1	2932.2	2866.0	2779.3	2626.3	2440.0	2210.3	1979.3
-45°	3765.0	3309.1	2921.3	2896.3	2855.5	2756.6	2631.8	2455.1	2251.2	2034.5	1816.0
-47.5°	2885.0	2852.9	2836.5	2784.2	2696.8	2585.1	2423.0	2248.5	2051.7	1852.6	1665.6
-50°	2781.2	2725.1	2666.4	2594.0	2472.4	2338.5	2190.0	2026.1	1852.9	1685.9	1509.5
-52.5°	2596.1	2507.1	2414.6	2318.7	2211.9	2091.6	1955.3	1819.8	1673.3	1510.7	1347.5
-55°	2296.6	2216.1	2137.9	2051.4	1957.7	1856.8	1746.4	1618.0	1474.1	1324.6	1186.0
-57.5°	2005.4	1931.5	1873.2	1803.5	1724.1	1628.6	1523.0	1398.1	1271.1	1146.0	1025.2
-60°	1744.1	1675.8	1621.5	1555.4	1478.5	1391.1	1297.7	1191.7	1076.7	983.6	892.3
-62.5°	1479.7	1419.1	1364.0	1303.9	1236.7	1162.5	1083.7	1008.0	922.4	837.2	748.5
-65°	1208.8	1150.2	1102.5	1065.4	1017.7	966.9	905.8	838.5	759.0	680.9	599.5
-67.5°	967.9	924.5	890.4	857.7	816.1	769.5	713.2	652.9	595.1	537.6	473.9
-70°	744.9	710.2	677.6	644.1	613.0	582.8	545.0	501.7	453.2	415.1	380.6
-72.5°	549.1	527.2	504.5	482.1	456.8	439.1	420.4	397.1	370.6	341.1	315.8
-75°	419.0	406.9	394.8	384.4	372.4	358.9	347.3	334.2	320.0	304.2	288.5
-77.5°	352.3	344.5	337.2	332.3	326.8	320.0	311.6	300.9	289.8	276.8	263.9
-80°	315.0	308.8	302.8	298.3	293.4	287.7	281.3	272.2	262.6	251.6	240.8
-82.5°	282.0	276.9	271.7	267.4	263.0	258.4	253.3	245.5	237.4	228.0	218.6
-85°	251.3	246.9	242.5	239.0	235.3	231.3	227.0	220.1	213.2	205.3	197.5
-87.5°	225.9	222.1	218.2	215.0	211.7	207.8	203.9	198.2	192.4	186.3	180.1
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3



REPORT NUMBER: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	161.0	154.0	148.8	143.6	137.8	132.0	125.7	119.3	111.2	103.1	93.3
87.5°	2.3	2.3	2.7	3.0	2.9	2.9	2.9	2.8	3.0	3.1	3.4
85°	2.7	2.7	3.0	3.5	3.5	3.5	3.4	3.3	3.7	3.9	3.9
82.5°	3.5	3.4	3.4	3.5	3.9	4.0	3.9	3.8	4.3	4.6	4.4
80°	3.9	4.1	4.0	3.9	4.2	4.6	4.4	4.3	4.7	5.1	5.0
77.5°	4.8	4.8	4.6	4.5	4.5	4.7	4.8	4.9	5.2	5.5	5.5
75°	5.8	5.4	4.8	4.8	4.9	4.8	5.2	5.5	5.9	6.0	6.1
72.5°	5.8	5.8	5.3	5.2	5.8	6.1	6.1	6.2	6.7	7.0	6.8
70°	8.8	6.8	6.4	6.6	7.0	7.5	7.6	7.8	7.6	8.0	8.0
67.5°	14.0	11.6	9.6	8.4	8.5	9.0	9.2	9.7	9.6	9.1	9.3
65°	27.0	19.5	13.7	12.0	10.7	10.6	10.9	11.8	11.8	11.6	10.6
62.5°	38.6	30.0	22.9	17.3	14.4	14.4	12.8	14.2	14.2	14.2	12.9
60°	49.2	40.1	33.2	27.3	22.0	19.4	18.3	16.9	17.3	16.9	15.5
57.5°	49.5	48.8	45.7	38.6	33.7	28.2	25.3	23.0	20.9	20.5	18.4
55°	50.3	51.0	57.0	52.9	47.9	40.5	35.3	31.1	26.0	24.7	21.4
52.5°	60.2	61.8	66.6	69.9	66.2	55.9	50.5	39.9	35.9	29.2	25.6
50°	77.2	83.2	83.8	89.7	86.8	80.0	67.0	56.1	46.6	35.7	30.2
47.5°	120.4	125.9	115.3	118.1	112.7	107.8	92.0	75.6	58.3	46.6	35.0
45°	229.0	197.0	178.5	163.1	149.2	143.3	122.2	97.2	78.2	58.0	40.0
42.5°	371.2	323.2	285.9	217.1	209.1	185.2	158.6	130.2	99.6	69.8	48.2
40°	571.7	480.1	416.6	343.4	283.1	232.5	205.5	167.4	122.5	84.8	58.9
37.5°	760.5	643.4	562.7	473.8	376.2	310.0	257.1	207.3	149.8	105.8	69.8
35°	912.3	796.1	686.8	594.9	496.1	387.6	312.6	252.0	184.9	127.6	80.9
32.5°	1050.0	926.4	802.5	699.0	591.7	463.3	377.3	296.3	220.1	150.2	92.5
30°	1172.0	1053.8	912.7	784.5	670.4	542.6	438.4	337.7	255.5	173.5	106.0
27.5°	1305.1	1185.9	1024.6	877.5	739.8	611.5	487.2	376.2	290.8	197.1	123.7
25°	1430.3	1309.0	1149.1	981.8	809.8	666.5	532.7	412.0	323.9	221.0	140.4
22.5°	1514.2	1412.8	1263.5	1092.2	887.1	720.1	577.2	451.1	346.3	242.9	156.1
20°	1581.8	1503.9	1364.5	1175.6	971.1	783.5	621.7	482.6	367.2	262.7	170.7
17.5°	1678.3	1577.6	1436.3	1245.7	1048.2	847.4	664.6	512.2	386.3	280.4	184.2
15°	1915.4	1642.1	1506.1	1311.7	1107.6	901.9	706.4	540.3	403.7	296.1	196.4
12.5°	2161.3	1704.8	1573.6	1368.8	1151.4	948.5	746.5	566.4	419.3	312.0	207.3
10°	2392.2	1759.3	1636.3	1421.0	1189.5	987.6	784.3	595.0	442.5	328.4	217.0
7.5°	2587.4	1809.0	1695.4	1468.1	1224.0	1023.0	822.4	630.7	465.9	343.4	225.6
5°	2752.2	1854.7	1752.8	1526.2	1264.8	1055.6	856.0	663.8	487.8	356.9	233.1
2.5°	2864.5	1896.2	1804.3	1580.4	1300.5	1082.8	884.8	693.7	507.9	368.7	239.3
0°	2938.9	1933.8	1848.1	1626.9	1330.5	1104.7	909.0	720.2	525.7	378.6	244.3
-2.5°	2962.3	1973.0	1884.0	1666.3	1378.4	1133.9	926.7	732.5	537.8	389.7	252.6
-5°	2945.5	2009.2	1913.3	1697.7	1418.4	1157.3	939.8	740.9	547.2	398.6	259.5
-7.5°	2895.3	2050.0	1937.7	1721.1	1449.3	1174.1	948.0	745.4	554.0	405.2	264.9
-10°	2809.5	2090.8	1957.2	1729.9	1454.0	1182.8	951.8	746.0	558.1	409.3	268.7
-12.5°	2701.5	2128.2	1969.4	1728.4	1448.3	1184.6	955.1	744.4	559.4	410.8	270.7
-15°	2563.4	2175.4	1984.9	1717.6	1435.5	1181.0	952.2	738.6	555.9	408.3	270.8
-17.5°	2382.4	2219.3	1994.8	1703.8	1417.9	1171.9	942.6	727.7	549.3	401.7	268.4
-20°	2377.8	2238.4	1989.4	1677.2	1392.6	1155.6	926.2	711.4	539.6	392.7	263.9



REPORT NUMBER: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	2410.9	2230.5	1958.1	1642.0	1362.5	1132.3	904.5	690.1	526.8	381.3	257.7
-25°	2429.2	2215.6	1914.4	1604.0	1331.6	1102.8	879.1	667.7	510.7	367.6	249.9
-27.5°	2399.5	2171.0	1857.3	1553.4	1296.3	1067.7	849.8	651.7	496.1	351.5	240.5
-30°	2348.8	2086.8	1787.5	1494.6	1250.7	1027.1	815.2	632.3	480.0	338.4	229.5
-32.5°	2273.2	1996.3	1708.6	1438.2	1198.8	980.4	776.0	609.2	461.3	327.3	222.3
-35°	2154.2	1894.2	1624.0	1374.7	1141.2	932.7	738.6	582.3	440.0	313.2	216.1
-37.5°	2025.5	1777.1	1545.9	1305.8	1080.9	880.7	705.6	553.9	416.1	296.2	209.2
-40°	1890.7	1658.8	1445.2	1231.4	1018.8	824.6	667.8	521.9	392.8	276.3	200.9
-42.5°	1749.4	1543.0	1341.2	1144.7	951.3	777.3	625.5	484.9	365.0	261.5	191.0
-45°	1617.3	1421.6	1231.3	1053.1	879.2	724.6	578.6	444.1	333.9	248.5	183.6
-47.5°	1478.2	1295.6	1120.9	955.4	813.4	666.1	525.8	406.2	300.6	233.7	180.7
-50°	1335.1	1167.3	1008.3	866.9	736.9	600.9	470.6	365.1	280.7	216.3	177.1
-52.5°	1189.9	1038.3	903.1	779.0	654.3	529.8	419.6	322.8	259.3	206.7	172.8
-55°	1043.4	920.3	803.4	684.7	567.0	463.6	364.4	295.9	236.4	200.4	168.1
-57.5°	917.8	808.8	695.8	584.6	486.8	396.2	323.3	267.7	224.9	193.5	164.9
-60°	793.2	686.1	581.7	494.2	410.8	341.6	290.4	244.2	216.4	186.5	161.0
-62.5°	654.0	561.8	484.3	408.2	350.2	302.0	259.9	232.6	207.0	181.0	156.4
-65°	527.1	456.6	390.5	347.0	303.7	267.2	245.2	220.2	198.5	174.9	151.6
-67.5°	410.2	372.1	333.6	294.4	270.7	250.6	229.6	209.9	190.2	168.4	146.6
-70°	345.0	310.3	287.6	269.9	252.3	234.1	217.6	200.3	181.5	162.0	141.3
-72.5°	298.4	281.8	265.6	249.5	235.3	220.6	205.9	190.3	173.0	155.2	135.7
-75°	273.2	259.1	245.6	232.4	219.6	206.7	193.9	179.8	164.1	148.1	129.7
-77.5°	251.3	238.8	226.8	215.5	204.7	193.7	181.7	168.9	154.8	140.3	123.3
-80°	229.9	219.2	209.3	199.6	190.2	180.5	169.2	158.0	145.2	132.2	116.7
-82.5°	209.1	199.8	191.6	183.2	174.8	166.1	156.5	146.8	135.4	123.8	110.3
-85°	189.2	180.8	173.6	166.3	158.9	151.5	144.1	136.6	126.9	117.0	104.8
-87.5°	173.0	165.8	160.0	154.2	148.0	141.8	134.9	128.0	119.1	110.1	99.1
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9



REPORT NUMBER: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	83.4	70.0	56.7	41.1	25.5	14.5	3.5
87.5°	3.8	3.9	3.9	3.8	3.7	3.8	3.5
85°	4.1	4.2	4.3	4.1	3.9	4.1	3.5
82.5°	4.4	4.6	4.7	4.4	4.1	4.3	3.5
80°	4.7	5.0	5.1	4.7	4.3	4.6	3.5
77.5°	5.4	5.5	5.5	5.0	4.6	4.9	3.5
75°	6.0	6.2	5.9	5.3	4.8	5.2	3.5
72.5°	6.7	6.8	6.6	5.6	5.1	5.5	3.5
70°	7.5	7.5	7.2	5.9	5.4	5.8	3.5
67.5°	8.9	8.2	7.9	6.6	5.7	6.0	3.5
65°	10.4	9.4	8.6	7.3	6.1	6.3	3.5
62.5°	12.0	10.9	9.4	8.0	6.5	6.6	3.5
60°	13.7	12.5	10.2	8.7	6.9	6.9	3.5
57.5°	16.3	14.2	11.7	9.4	7.7	7.3	3.5
55°	19.0	15.9	13.3	10.2	8.5	7.6	3.5
52.5°	21.7	17.8	15.0	10.9	9.3	7.9	3.5
50°	24.5	20.4	16.7	11.7	10.1	8.2	3.5
47.5°	27.5	23.0	18.4	12.6	11.0	8.5	3.5
45°	31.8	25.8	20.2	14.0	11.9	8.8	3.5
42.5°	36.2	28.7	22.0	15.3	12.8	9.1	3.5
40°	41.0	31.7	24.0	17.0	13.7	9.5	3.5
37.5°	46.3	34.7	26.4	18.9	14.6	9.8	3.5
35°	51.6	38.6	28.7	20.9	15.5	10.1	3.5
32.5°	58.4	42.8	31.0	22.8	16.5	10.4	3.5
30°	68.0	47.1	33.4	24.7	17.4	10.8	3.5
27.5°	77.5	51.4	36.4	26.7	18.4	11.1	3.5
25°	86.8	55.6	39.4	28.6	19.4	11.4	3.5
22.5°	95.9	59.9	42.3	30.5	20.3	11.7	3.5
20°	104.7	64.3	45.2	32.3	21.2	12.0	3.5
17.5°	112.9	68.4	48.0	34.1	22.2	12.3	3.5
15°	120.4	72.4	50.8	35.9	23.1	12.5	3.5
12.5°	127.4	76.2	53.4	37.6	23.9	12.8	3.5
10°	133.7	79.7	55.9	39.3	24.8	13.0	3.5
7.5°	139.5	83.0	58.3	40.9	25.6	13.3	3.5
5°	144.6	86.1	60.6	42.4	26.4	13.5	3.5
2.5°	149.0	88.9	62.8	43.9	27.1	13.7	3.5
0°	152.8	91.5	64.8	45.2	27.8	13.9	3.5
-2.5°	157.7	95.3	67.7	47.2	29.0	14.5	3.5
-5°	161.9	98.9	70.4	49.1	30.2	15.0	3.5
-7.5°	165.3	102.2	73.0	50.9	31.3	15.5	3.5
-10°	167.9	105.2	75.3	52.5	32.4	16.0	3.5
-12.5°	169.7	107.9	77.5	54.1	33.4	16.5	3.5
-15°	170.7	110.2	79.5	55.5	34.3	17.0	3.5
-17.5°	170.8	112.2	81.3	56.8	35.2	17.4	3.5
-20°	170.2	113.9	82.8	57.9	35.9	17.8	3.5



REPORT NUMBER: P701566 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	168.8	115.1	84.1	58.9	36.6	18.1	3.5
-25°	166.6	116.3	85.3	59.7	37.2	18.5	3.5
-27.5°	163.5	117.3	86.1	60.4	37.8	18.7	3.5
-30°	159.6	117.8	86.8	61.0	38.2	19.0	3.5
-32.5°	154.7	118.1	87.7	61.4	38.6	19.2	3.5
-35°	152.9	118.0	88.3	61.6	38.9	19.4	3.5
-37.5°	152.4	117.9	88.7	61.6	39.1	19.6	3.5
-40°	151.5	118.1	88.9	61.6	39.2	19.7	3.5
-42.5°	150.2	118.1	88.9	61.4	39.2	19.7	3.5
-45°	148.3	117.7	88.8	61.3	39.2	19.8	3.5
-47.5°	145.9	117.1	88.4	61.1	39.0	19.8	3.5
-50°	144.2	116.2	87.8	60.9	38.8	19.7	3.5
-52.5°	142.4	115.0	87.0	60.7	38.4	19.7	3.5
-55°	140.2	113.3	85.9	60.3	38.0	19.6	3.5
-57.5°	137.6	111.3	84.5	59.7	37.5	19.4	3.5
-60°	134.6	109.0	83.0	59.0	36.9	19.2	3.5
-62.5°	131.5	106.5	81.7	58.1	36.4	19.0	3.5
-65°	128.0	103.7	80.3	57.1	35.8	18.7	3.5
-67.5°	124.2	100.8	78.6	56.0	35.0	18.5	3.5
-70°	120.2	98.0	76.7	54.7	34.2	18.1	3.5
-72.5°	115.9	94.9	74.7	53.4	33.4	17.8	3.5
-75°	111.4	91.5	72.4	52.0	32.4	17.4	3.5
-77.5°	106.5	87.9	70.1	50.4	31.4	17.0	3.5
-80°	101.4	84.5	67.7	48.8	30.3	16.5	3.5
-82.5°	97.1	81.1	65.2	47.0	29.2	16.1	3.5
-85°	92.7	77.6	62.5	45.1	28.0	15.6	3.5
-87.5°	88.1	73.9	59.7	43.2	26.8	15.0	3.5
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5

(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

