

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: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-2S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-70-2S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

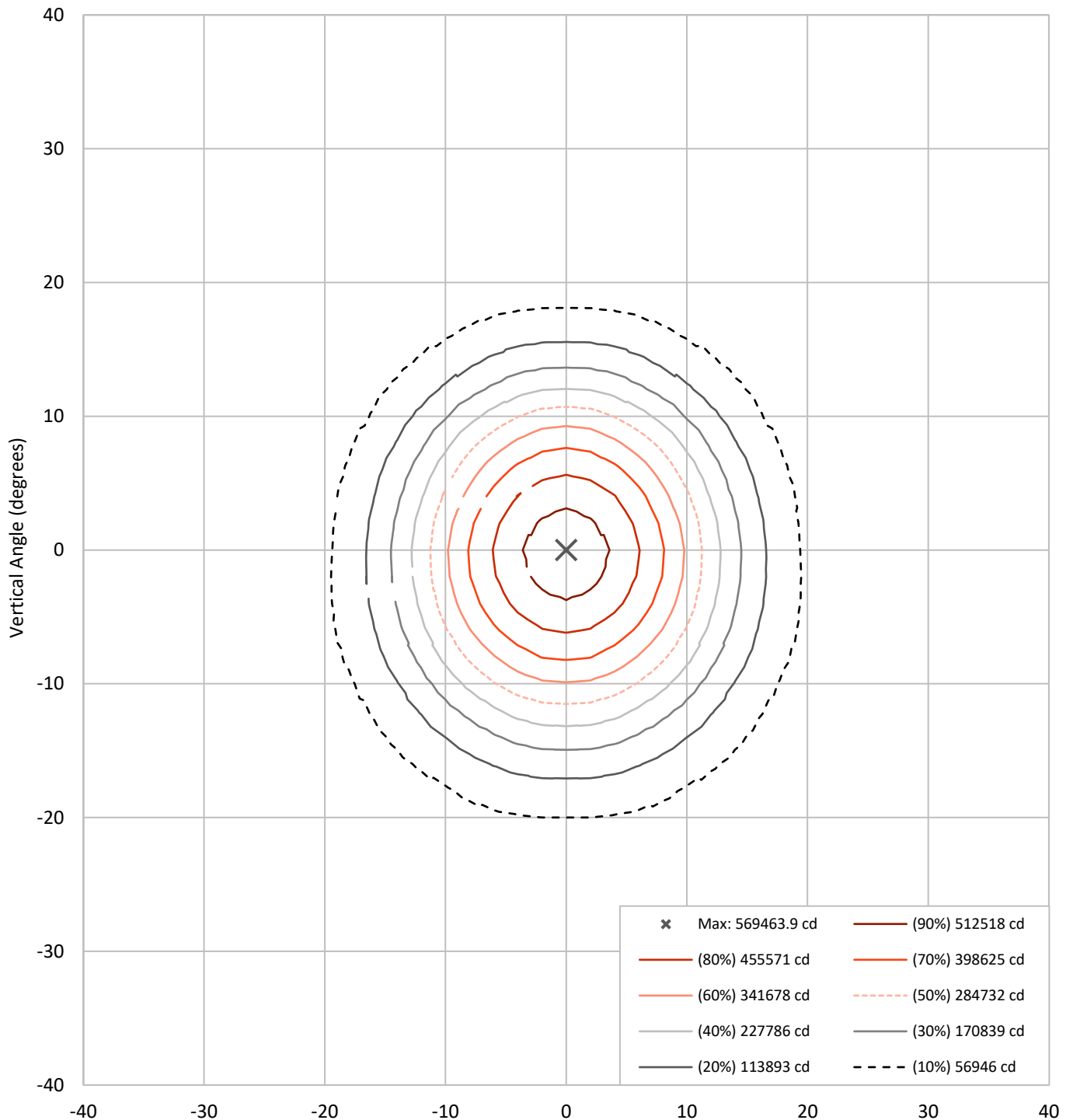
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	99533.8 lumens	Max Intensity:	569463.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	46510.5 lumens	Field Lumens:	82857.5 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 703.6
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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CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

Iso-Candela Plot





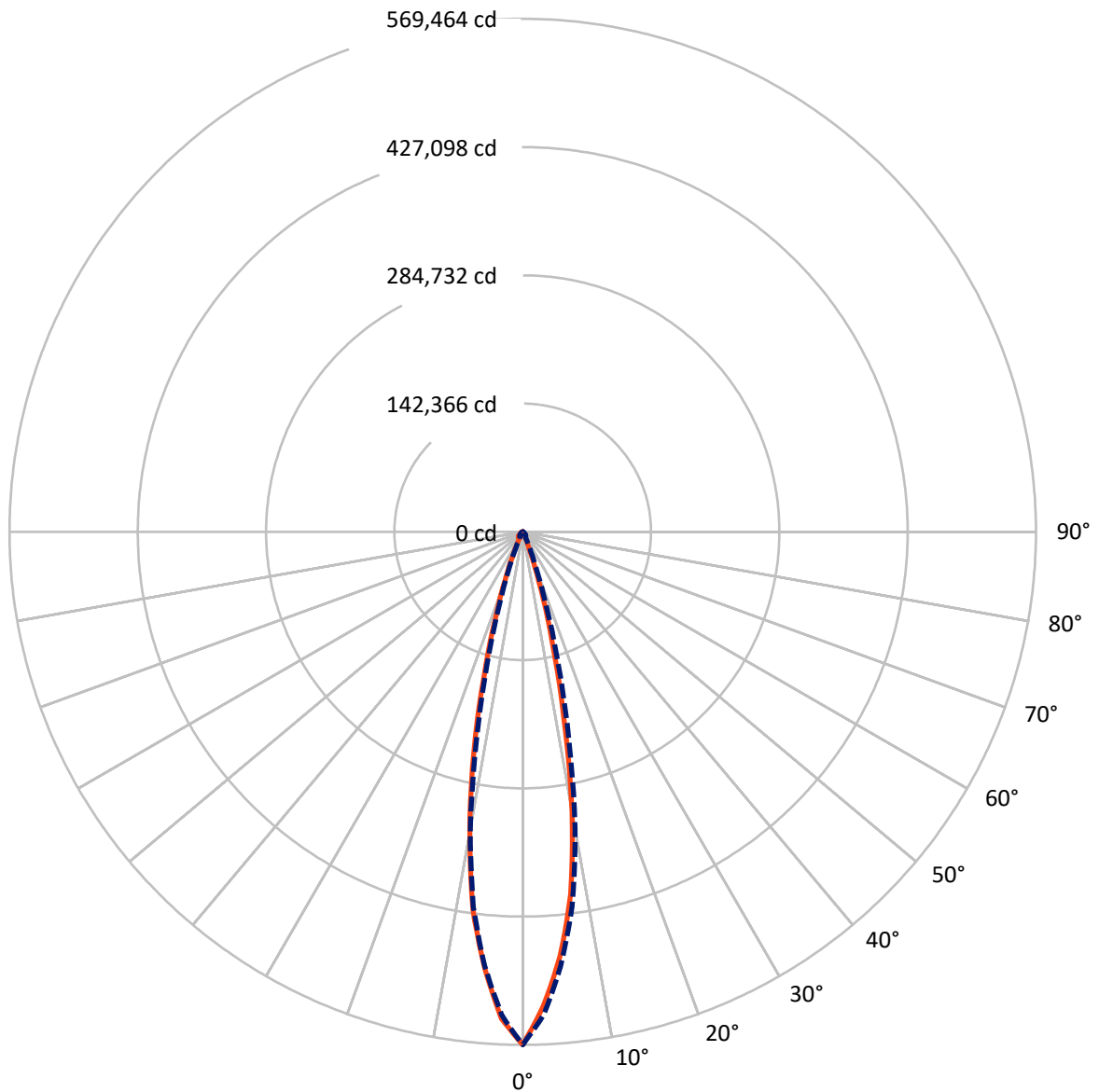
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Lumen Table

90	0.2	0.8	1.5	2.1	2.6	2.1	1.5	0.8	0.2									
80	0.2	0.8	1.5	2.1	2.6	2.1	1.5	0.8	0.2									
70	0.3	0.1	0.2	0.7	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.7	0.2	0.1	0.3		
60		0.4	0.8	1.2	1.0	0.9	1.0	1.1	1.1	1.0	0.9	1.0	1.2	0.8	0.4			
50	0.8	1.2	2.9	5.9	10.4	17.1	26.3	31.0	31.0	26.3	17.1	10.4	5.9	2.9	1.2	0.8		
40		3.1	9.8	18.9	37.0	64.5	78.4	86.9	86.9	78.4	64.5	37.0	18.9	9.8	3.1			
30	2.0	5.3	16.2	34.6	84.6	98.4	135.7	248.0	248.0	135.7	98.4	84.6	34.6	16.2	5.3	2.0		
20		7.1	21.2	60.6	119.2	175.2	1111.4	3584.7	3584.7	1111.4	175.2	119.2	60.6	21.2	7.1			
10	2.9	8.6	24.4	79.2	136.6	391.7	3937.3	11836.2	11836.2	3937.3	391.7	136.6	79.2	24.4	8.6	2.9		
0		9.4	26.9	83.6	150.3	449.2	4288.0	12309.1	12309.1	4288.0	449.2	150.3	83.6	26.9	9.4			
-10	3.1	9.5	28.1	80.6	158.1	257.1	1571.5	4603.7	4603.7	1571.5	257.1	158.1	80.6	28.1	9.5	3.1		
-20		8.8	27.6	61.6	149.1	204.4	284.0	568.0	568.0	284.0	204.4	149.1	61.6	27.6	8.8			
-30	2.6	7.5	24.1	48.2	104.3	183.6	215.0	225.5	225.5	215.0	183.6	104.3	48.2	24.1	7.5	2.6		
-40		5.7	18.3	39.0	62.2	95.6	145.4	182.5	182.5	145.4	95.6	62.2	39.0	18.3	5.7			
-50	2.1	3.7	11.6	25.5	43.5	58.9	70.3	77.6	77.6	70.3	58.9	43.5	25.5	11.6	3.7	2.1		
-60		2.5	5.9	12.8	22.2	31.2	39.3	44.2	44.2	39.3	31.2	22.2	12.8	5.9	2.5			
-70	1.5	9.1	22.1	36.9	45.1	36.9	22.1	9.1	1.5							1.5		
-80		9.1	22.1	36.9	45.1	36.9	22.1	9.1	1.5									
-90	1.5	9.1	22.1	36.9	45.1	36.9	22.1	9.1	1.5									

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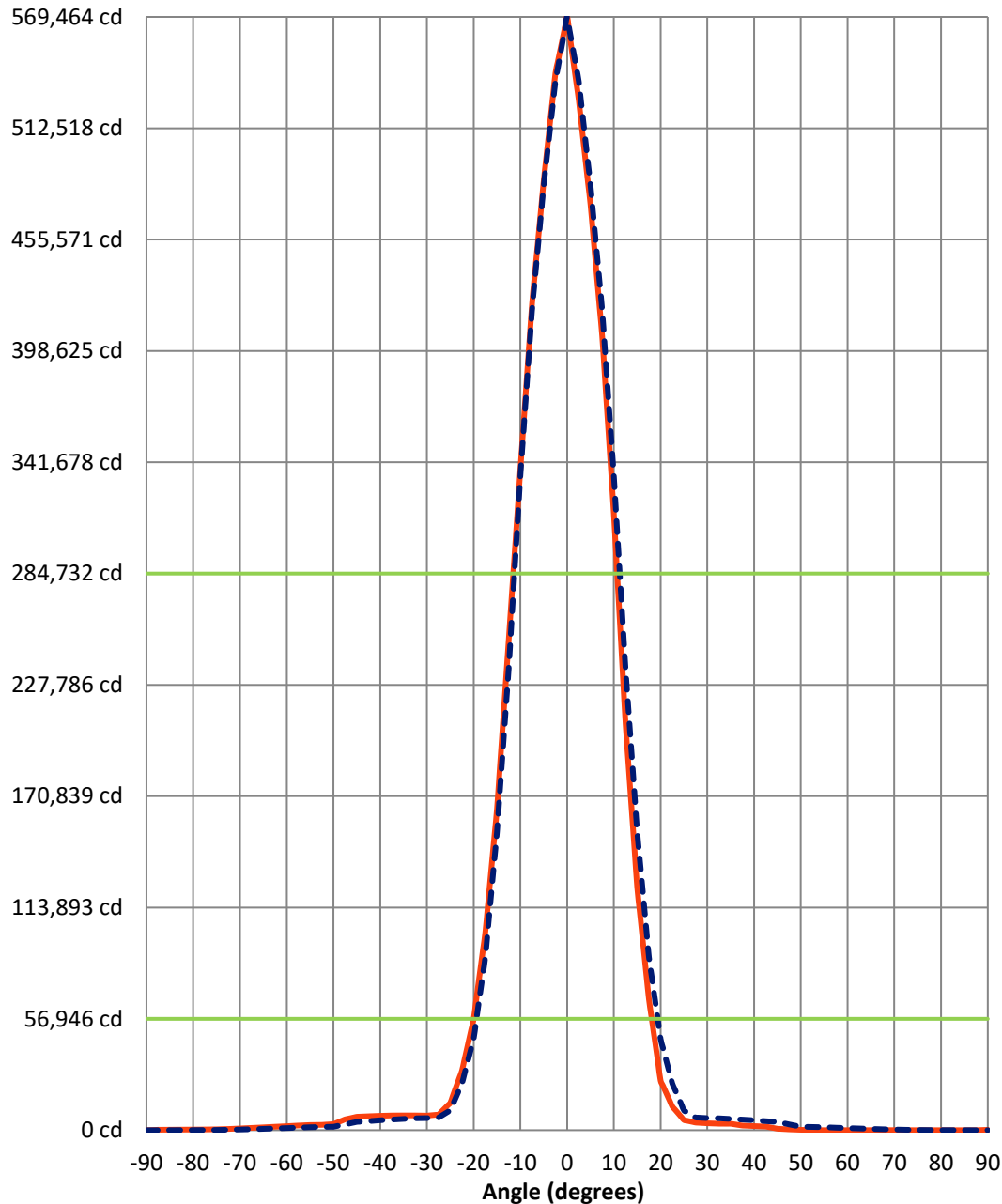
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 22.5°
V Angle: 22.2°
Lumens: 46510.5
Efficiency: 46.7%

Field:
H Angle: 38.8°
V Angle: 38.1°
Lumens: 82857.5
Efficiency: 83.2%

Spill:
Lumens: 16676.3
Efficiency: 16.8%

— 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°	5.8	12.2	18.6	31.9	45.3	56.9	68.6	77.3	86.0	93.0	99.9
87.5°	5.8	6.0	6.0	6.0	6.0	6.1	6.1	6.0	5.8	5.8	5.8
85°	5.8	6.1	6.2	6.3	6.2	6.3	6.4	6.2	5.8	5.8	5.8
82.5°	5.8	6.3	6.4	6.5	6.4	6.6	6.7	6.4	5.9	6.1	6.1
80°	5.8	6.4	6.6	6.7	6.7	6.8	7.0	6.8	6.7	6.8	6.7
77.5°	5.8	6.6	6.8	7.0	6.9	7.1	7.3	7.3	7.4	7.5	7.2
75°	5.8	6.7	7.0	7.2	7.1	7.5	7.7	7.8	8.1	8.0	7.7
72.5°	5.8	6.9	7.2	7.4	7.6	7.9	8.0	8.2	8.6	8.5	8.3
70°	5.8	7.0	7.5	7.7	8.0	8.3	8.4	8.8	9.1	9.0	8.9
67.5°	5.8	7.2	7.7	8.0	8.4	8.7	9.1	9.5	9.7	9.8	9.6
65°	5.8	7.3	7.9	8.3	8.8	9.3	9.8	10.1	10.9	10.7	10.7
62.5°	5.8	7.5	8.2	8.6	9.2	10.0	10.5	11.4	12.2	11.9	12.5
60°	5.8	7.6	8.4	8.9	9.6	10.7	11.3	13.0	13.7	14.4	14.6
57.5°	5.8	7.8	8.7	9.3	10.4	11.4	13.2	14.8	16.5	17.3	19.5
55°	5.8	7.9	9.1	9.6	11.2	12.2	15.4	17.0	19.9	21.5	26.1
52.5°	5.8	8.1	9.5	9.8	12.1	13.2	17.7	20.6	23.6	29.6	33.4
50°	5.8	8.2	9.9	10.1	13.0	15.6	20.2	24.5	28.9	38.4	47.8
47.5°	5.8	8.4	10.3	10.5	14.0	18.1	22.9	28.6	37.8	48.0	64.9
45°	5.8	8.5	10.8	11.3	15.1	20.8	26.6	32.9	47.6	65.2	83.6
42.5°	5.8	8.7	11.2	12.2	16.1	23.5	30.4	40.1	58.2	83.7	113.7
40°	5.8	8.8	11.7	13.3	17.8	26.3	34.4	49.7	71.7	103.5	147.9
37.5°	5.8	8.9	12.3	14.7	20.0	29.1	38.8	59.6	90.9	129.0	184.4
35°	5.8	9.1	12.8	16.1	22.2	32.4	43.2	69.8	111.1	163.2	225.4
32.5°	5.8	9.2	13.4	17.6	24.4	36.0	49.0	80.4	132.2	197.9	268.9
30°	5.8	9.4	14.0	19.1	26.5	39.5	57.6	92.6	154.1	233.0	310.3
27.5°	5.8	9.5	14.6	20.7	29.4	43.1	66.1	108.8	176.6	268.3	349.5
25°	5.8	9.6	15.2	22.2	32.2	46.6	74.5	124.0	200.1	301.8	386.8
22.5°	5.8	9.7	15.8	23.8	34.9	50.2	82.7	138.4	221.8	324.5	427.1
20°	5.8	9.8	16.4	25.4	37.5	53.9	90.7	151.8	241.6	345.5	458.5
17.5°	5.8	9.9	17.0	27.0	40.1	57.5	98.0	164.2	259.5	364.8	488.2
15°	5.8	10.0	17.6	28.6	42.5	61.0	104.5	175.2	275.5	382.3	516.7
12.5°	5.8	10.1	18.2	30.2	44.8	64.3	110.4	184.5	290.6	398.1	543.7
10°	5.8	10.2	18.8	31.7	47.0	67.4	115.8	192.8	305.0	417.5	571.6
7.5°	5.8	10.3	19.4	33.2	49.1	70.3	120.6	200.0	317.9	436.4	603.3
5°	5.8	10.4	19.9	34.6	51.1	73.1	124.8	206.1	329.2	453.7	632.4
2.5°	5.8	10.4	20.4	35.9	52.9	75.6	128.3	211.1	338.7	469.1	658.5
0°	5.8	10.5	20.9	37.2	54.6	77.9	131.3	215.0	346.3	482.3	681.1
-2.5°	5.8	11.0	22.0	38.8	57.0	81.1	135.5	222.8	356.9	496.2	692.9
-5°	5.8	11.4	23.1	40.4	59.2	84.1	139.0	229.4	365.3	507.5	700.8
-7.5°	5.8	11.8	24.1	41.8	61.3	86.9	141.9	234.5	371.3	516.1	705.1
-10°	5.8	12.2	25.0	43.2	63.3	89.3	144.1	238.0	375.0	521.9	705.8
-12.5°	5.8	12.6	25.9	44.4	65.0	91.5	145.6	239.8	376.2	524.2	705.0
-15°	5.8	13.0	26.7	45.5	66.6	93.4	146.3	239.8	373.4	520.0	700.1
-17.5°	5.8	13.4	27.5	46.5	68.0	95.1	146.3	237.3	366.5	512.7	689.7
-20°	5.8	13.7	28.2	47.4	69.2	96.4	145.7	232.8	357.2	502.3	673.6



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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°	5.8	14.0	28.9	48.2	70.2	97.3	144.6	226.8	345.7	488.7	652.1
-25°	5.8	14.3	29.4	48.9	71.1	98.2	142.6	219.2	331.8	471.9	631.1
-27.5°	5.8	14.6	29.9	49.5	71.7	98.8	139.8	210.1	315.7	458.1	616.2
-30°	5.8	14.8	30.3	49.9	72.1	99.1	136.1	199.4	302.8	442.7	597.7
-32.5°	5.8	15.0	30.6	50.2	72.6	99.1	131.5	192.7	291.9	423.8	575.2
-35°	5.8	15.2	30.9	50.4	73.0	98.8	129.6	187.0	278.4	401.6	548.7
-37.5°	5.8	15.4	31.0	50.5	73.2	98.5	128.9	180.5	262.2	376.1	519.9
-40°	5.8	15.5	31.1	50.5	73.1	98.4	127.8	172.4	243.2	352.9	487.6
-42.5°	5.8	15.6	31.1	50.4	73.1	98.1	126.2	162.8	228.9	328.2	450.8
-45°	5.8	15.7	31.0	50.4	73.0	97.6	124.2	155.4	216.1	300.1	411.2
-47.5°	5.8	15.7	30.8	50.2	72.7	96.8	121.8	152.4	201.3	269.2	375.8
-50°	5.8	15.7	30.5	49.9	72.3	95.8	120.1	148.9	184.5	249.9	336.6
-52.5°	5.8	15.7	30.2	49.6	71.6	94.5	118.4	144.8	175.8	228.7	294.8
-55°	5.8	15.6	29.7	49.1	70.8	93.2	116.4	140.4	170.2	205.7	266.8
-57.5°	5.8	15.6	29.2	48.4	69.8	91.7	114.0	137.6	164.0	194.6	237.3
-60°	5.8	15.4	28.6	47.6	68.6	89.9	111.4	134.3	157.8	186.5	213.1
-62.5°	5.8	15.3	28.1	46.7	67.3	87.8	108.7	130.6	153.2	177.4	202.1
-65°	5.8	15.1	27.6	45.7	65.8	85.5	105.6	126.6	148.1	169.9	190.6
-67.5°	5.8	14.9	26.9	44.5	64.1	83.0	102.2	122.3	142.5	162.6	181.0
-70°	5.8	14.7	26.2	43.2	62.2	80.2	98.5	117.6	137.1	154.8	172.0
-72.5°	5.8	14.5	25.5	42.1	60.2	77.3	94.7	112.8	131.3	147.5	162.8
-75°	5.8	14.2	24.6	40.9	58.0	74.2	90.7	107.7	125.3	140.0	154.0
-77.5°	5.8	13.9	23.7	39.7	56.1	70.9	86.5	102.3	118.7	132.0	144.8
-80°	5.8	13.6	22.8	38.3	54.2	68.1	82.1	96.7	111.7	123.4	135.0
-82.5°	5.8	13.3	21.8	36.8	52.1	65.5	78.8	91.3	104.4	114.6	124.7
-85°	5.8	12.9	20.8	35.3	50.0	62.8	75.5	86.8	98.4	107.0	115.4
-87.5°	5.8	12.6	19.7	33.7	47.7	59.9	72.1	82.1	92.3	100.0	107.7
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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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°	105.2	110.4	115.1	119.7	125.0	130.2	136.0	141.8	147.6	153.4	158.1
87.5°	5.5	5.2	5.2	5.3	5.0	4.6	4.6	4.6	4.1	3.5	3.5
85°	5.8	5.8	5.8	5.8	5.3	5.0	4.8	4.6	4.3	4.1	4.1
82.5°	6.3	6.4	6.2	5.8	5.7	5.7	5.3	4.8	4.9	5.0	4.8
80°	6.8	7.0	6.6	6.2	6.1	5.9	5.6	5.6	5.7	5.8	5.4
77.5°	7.2	7.1	6.9	6.8	6.6	6.2	6.2	6.4	6.3	5.9	5.8
75°	7.5	7.2	7.1	7.1	6.9	6.8	7.0	7.0	6.8	6.6	6.4
72.5°	8.0	7.8	7.6	7.3	7.2	7.1	7.0	7.0	8.1	9.8	10.9
70°	8.6	8.4	8.2	8.0	7.7	7.8	9.2	11.8	14.7	16.9	19.9
67.5°	9.3	9.2	8.9	8.9	9.4	10.8	12.9	20.6	28.4	31.1	32.5
65°	10.4	10.2	10.2	10.9	11.5	17.4	25.1	34.1	43.8	45.6	43.7
62.5°	11.7	12.9	12.6	14.6	19.9	27.1	36.8	47.1	58.1	55.5	46.3
60°	16.0	16.8	18.7	23.2	29.2	37.3	48.1	52.5	57.1	57.9	45.0
57.5°	21.6	24.0	28.4	33.1	41.1	45.6	47.2	47.3	53.9	54.3	41.3
55°	30.1	34.1	40.8	46.5	51.5	46.5	46.5	50.8	53.1	49.0	36.7
52.5°	43.2	47.6	57.9	62.2	59.4	55.3	54.3	58.0	55.8	49.8	42.4
50°	57.9	70.3	77.2	80.6	74.1	73.3	67.4	70.8	72.9	69.7	72.8
47.5°	81.5	96.6	102.2	107.2	101.9	107.6	102.0	118.6	119.0	159.9	164.7
45°	110.2	130.6	137.2	148.9	158.0	163.2	195.6	197.7	284.7	318.8	392.1
42.5°	143.8	170.4	193.5	199.3	254.2	280.3	326.2	410.0	490.2	559.3	598.4
40°	186.9	215.2	263.6	317.7	379.9	441.3	509.5	608.0	692.7	730.0	749.7
37.5°	234.2	288.7	353.1	443.4	535.9	606.4	687.5	780.1	836.5	856.2	860.7
35°	285.0	363.5	471.3	566.2	665.4	759.9	835.6	924.1	943.1	958.7	1045.9
32.5°	346.7	438.2	565.4	671.9	772.3	880.6	957.1	1009.5	1039.7	1097.2	1381.3
30°	408.6	515.9	641.8	755.0	872.1	975.0	1048.0	1098.8	1133.3	1404.9	1994.8
27.5°	459.4	582.7	707.8	839.4	968.7	1072.0	1142.1	1188.4	1388.9	1839.2	2747.5
25°	505.5	635.2	773.9	932.6	1068.6	1164.2	1236.1	1281.9	1730.5	2650.1	3280.0
22.5°	548.9	686.0	848.6	1031.1	1168.0	1249.2	1318.3	1566.8	2246.3	3471.8	3810.5
20°	591.2	747.0	929.8	1114.6	1261.2	1321.4	1393.9	1886.2	2909.6	3788.0	4159.1
17.5°	635.0	809.7	1006.3	1178.7	1309.9	1385.7	1502.0	2196.1	3469.7	4064.9	4333.3
15°	678.8	868.7	1068.7	1235.2	1357.7	1448.8	1749.0	2640.0	3816.7	4369.2	4622.0
12.5°	721.8	920.4	1115.5	1283.5	1407.8	1508.6	1975.1	3098.9	4130.2	4667.9	5002.6
10°	763.2	965.1	1155.6	1330.3	1456.9	1566.6	2203.4	3547.5	4413.3	4862.7	5143.3
7.5°	799.3	1001.6	1190.3	1375.2	1502.8	1623.5	2453.7	3845.1	4533.7	4986.5	5214.6
5°	830.1	1030.4	1225.4	1425.2	1550.4	1675.9	2681.1	4041.4	4579.6	5062.9	5289.1
2.5°	856.2	1053.6	1255.7	1472.0	1597.2	1720.3	2840.4	4165.8	4610.7	5092.1	5362.3
0°	877.5	1071.6	1280.8	1513.2	1639.9	1759.6	2959.0	4225.8	4620.9	5081.2	5431.0
-2.5°	891.3	1097.8	1327.2	1552.9	1674.9	1792.6	2954.1	4261.1	4633.6	5139.9	5696.6
-5°	900.5	1118.3	1366.2	1586.5	1706.6	1821.6	2903.6	4235.3	4661.6	5229.0	5870.2
-7.5°	905.2	1132.0	1396.1	1613.5	1736.5	1854.1	2841.2	4175.7	4804.8	5412.5	5979.1
-10°	906.7	1140.2	1402.2	1626.5	1764.2	1886.1	2738.2	4050.5	4917.9	5489.3	6010.8
-12.5°	912.7	1144.0	1399.0	1631.8	1787.8	1915.4	2611.1	3967.6	5070.0	5536.7	5999.3
-15°	912.1	1142.6	1389.6	1630.3	1816.7	1954.5	2442.0	3771.9	5162.6	5547.3	5968.4
-17.5°	904.4	1136.0	1375.3	1624.7	1844.1	1983.8	2203.5	3369.2	4897.9	5500.4	5931.9
-20°	889.3	1121.8	1355.2	1607.1	1859.3	2010.9	2175.1	3016.6	4352.9	5376.0	5863.1



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	867.5	1100.9	1330.6	1577.6	1852.1	2041.6	2194.8	2673.6	3814.7	5191.7	5751.6
-25°	842.0	1071.8	1302.2	1561.6	1841.4	2070.9	2199.0	2355.0	3346.5	4581.2	5559.4
-27.5°	813.9	1035.8	1271.0	1527.7	1824.8	2065.7	2197.3	2344.5	2847.8	3830.3	5253.5
-30°	781.2	995.3	1227.7	1478.6	1766.0	2010.1	2192.1	2313.9	2467.6	3241.5	4455.2
-32.5°	745.0	949.7	1176.4	1422.9	1690.3	1948.0	2161.8	2289.3	2424.2	2689.2	3667.5
-35°	709.6	905.5	1119.7	1358.9	1613.0	1863.7	2082.5	2263.5	2376.7	2525.7	2972.3
-37.5°	676.7	856.0	1057.6	1288.9	1534.7	1759.0	1995.6	2191.8	2346.8	2454.9	2635.4
-40°	638.7	800.6	993.9	1210.4	1431.3	1644.8	1869.8	2090.5	2280.9	2423.2	2530.9
-42.5°	595.9	750.8	925.5	1117.9	1322.0	1525.2	1738.0	1956.6	2165.6	2353.2	2486.6
-45°	549.5	695.0	852.3	1026.9	1208.1	1401.7	1604.3	1811.1	2018.7	2225.5	2390.1
-47.5°	495.9	633.6	782.8	929.7	1096.8	1274.7	1463.0	1657.4	1849.4	2049.0	2238.5
-50°	440.1	567.4	703.6	839.2	984.1	1145.0	1317.4	1499.1	1681.2	1865.4	2048.0
-52.5°	389.4	495.2	620.8	748.6	876.6	1014.1	1170.2	1335.9	1507.6	1681.5	1841.2
-55°	335.4	430.6	533.7	653.4	773.6	893.1	1020.0	1169.9	1325.5	1486.8	1630.1
-57.5°	293.7	365.4	454.4	553.3	665.1	778.3	889.6	1002.2	1141.2	1284.6	1405.1
-60°	259.2	310.9	379.1	462.7	551.7	656.3	761.0	865.6	973.1	1075.7	1187.0
-62.5°	227.6	269.8	317.8	376.1	453.4	534.1	627.1	723.5	821.9	910.3	992.1
-65°	214.0	234.2	270.2	313.8	358.1	427.1	501.6	577.5	662.9	741.2	814.9
-67.5°	199.6	218.3	237.0	260.0	299.7	340.6	381.6	448.7	515.6	576.3	636.4
-70°	188.0	202.4	218.9	235.8	252.9	276.4	313.0	350.9	388.8	430.7	481.5
-72.5°	176.7	189.6	202.8	215.9	231.3	247.4	264.2	281.3	307.6	339.8	368.9
-75°	165.8	176.6	188.5	200.5	212.6	224.8	238.5	254.3	270.0	285.7	300.4
-77.5°	155.4	165.2	175.1	185.2	195.7	206.6	218.6	231.1	244.0	256.8	268.2
-80°	144.3	153.6	162.1	170.7	180.1	189.5	199.5	209.8	221.1	232.9	243.2
-82.5°	132.5	140.2	147.9	155.6	164.2	172.8	181.4	190.0	199.3	208.8	217.3
-85°	121.1	126.5	133.2	139.9	147.6	155.3	162.6	169.8	177.9	186.0	192.6
-87.5°	113.2	118.5	123.8	129.0	135.1	141.3	147.3	153.3	160.0	166.7	171.8
-90°	5.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.5	3.5



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	162.7	166.2	169.7	171.5	173.2	176.7	180.1	185.4	190.6	196.4	202.2
87.5°	3.5	3.5	3.5	3.4	3.4	2.9	2.3	2.3	2.3	2.3	2.3
85°	4.2	4.3	4.3	3.9	3.5	3.4	3.4	3.4	3.4	2.9	2.3
82.5°	4.6	4.6	4.6	4.4	4.3	4.0	3.5	3.5	3.5	3.5	3.4
80°	5.0	4.9	4.6	4.6	4.6	4.5	4.3	4.0	3.5	4.0	4.5
77.5°	5.8	5.4	5.1	4.9	4.7	4.3	3.9	3.6	3.5	3.6	3.6
75°	6.0	6.1	6.9	7.1	6.9	6.3	5.3	5.1	5.3	5.0	4.6
72.5°	11.8	12.4	12.8	13.9	14.5	15.2	16.5	18.7	21.3	23.8	26.2
70°	23.8	27.1	27.8	27.9	27.8	28.7	29.9	31.3	33.1	34.7	36.0
67.5°	36.6	39.5	39.9	40.5	39.5	37.9	36.3	36.2	38.4	40.8	43.5
65°	44.6	41.7	39.5	39.0	38.3	36.4	33.3	31.1	30.6	30.1	30.2
62.5°	40.1	34.3	32.3	31.9	30.1	27.8	23.7	20.3	18.6	17.7	17.8
60°	34.8	28.0	23.8	22.0	19.1	16.3	13.8	11.2	10.4	10.1	10.3
57.5°	28.6	21.3	16.4	15.7	13.5	10.7	8.8	7.0	6.7	6.7	7.1
55°	26.2	22.4	18.7	17.5	14.9	13.7	11.8	9.4	8.8	9.4	10.4
52.5°	34.0	31.9	30.2	30.3	33.4	31.0	23.1	32.4	37.7	37.7	36.0
50°	74.7	67.2	95.8	92.2	115.2	130.6	118.6	133.1	153.9	168.6	178.8
47.5°	213.0	220.9	255.2	284.9	308.8	335.7	362.9	379.3	383.5	410.7	429.3
45°	428.9	454.7	492.9	512.2	549.8	594.4	625.7	639.8	722.0	824.1	890.2
42.5°	622.6	642.4	672.4	740.5	809.5	962.3	1137.6	1143.7	1302.1	1442.3	1585.9
40°	757.9	795.3	902.1	1063.6	1436.3	1727.3	1934.2	2137.1	2170.9	2105.0	2141.0
37.5°	933.2	1066.8	1337.2	1772.9	2095.5	2387.6	2505.3	2520.5	2561.6	2587.3	2546.4
35°	1263.6	1708.5	1932.9	2303.3	2537.9	2594.9	2630.5	2665.5	2699.1	2722.0	2747.0
32.5°	1987.1	2538.3	2567.9	2663.1	2707.0	2757.5	2795.2	2817.2	2832.4	2852.5	2920.6
30°	2764.9	2893.2	2903.9	2896.3	2911.4	2945.5	2970.1	3010.2	3050.3	3096.3	3247.2
27.5°	3128.0	3226.3	3195.7	3143.3	3117.2	3144.4	3211.5	3274.0	3390.3	3512.7	3729.2
25°	3530.0	3595.1	3557.8	3464.7	3406.3	3444.7	3545.6	3664.8	3887.1	4083.2	4481.7
22.5°	3960.5	4081.6	4042.5	4014.7	3891.8	3910.2	3989.7	4258.7	4814.9	5695.6	7524.3
20°	4294.4	4442.4	4461.1	4461.8	4435.9	4443.5	4628.3	5495.5	7121.9	12232.8	16763.5
17.5°	4541.9	4628.7	4732.9	4775.7	4826.4	4974.3	5960.3	8960.1	15983.8	25384.1	32582.3
15°	4862.7	4973.8	5086.7	5158.3	5272.8	6086.1	8607.5	17820.4	30592.8	46547.5	66940.4
12.5°	5119.6	5256.5	5346.1	5402.8	5666.9	7806.4	16579.1	29841.9	49769.9	74527.7	111254.6
10°	5261.7	5368.5	5490.7	5687.0	6763.7	11323.3	23379.9	41935.4	72569.2	117164.1	166081.1
7.5°	5332.5	5470.6	5675.1	5973.3	8005.5	16530.1	32525.8	59191.9	101033.2	156562.6	224721.2
5°	5414.8	5670.2	5913.7	6255.1	8969.8	20289.5	39795.9	73909.7	125850.8	193780.2	277956.4
2.5°	5547.9	5932.0	6088.9	6416.9	9550.8	22709.7	44131.2	85421.2	144382.7	224151.0	318658.8
0°	5757.6	6077.2	6171.3	6501.4	10135.6	23906.6	46677.8	88577.8	152637.6	235978.4	334689.5
-2.5°	5994.6	6194.2	6298.5	6666.5	10429.2	25127.7	48681.3	90698.7	150671.7	232038.5	328666.9
-5°	6149.2	6307.7	6408.8	6768.4	10397.1	23906.6	46442.7	84462.8	139177.7	211953.7	298346.3
-7.5°	6254.5	6419.5	6525.3	6854.8	9782.5	20660.2	41020.4	72805.8	118277.1	177962.9	252584.3
-10°	6357.3	6537.5	6676.1	6936.5	8658.2	15771.9	32196.6	54926.7	92500.1	139989.2	195781.5
-12.5°	6450.0	6672.7	6851.1	6970.9	7602.2	11996.3	23660.5	42012.9	66580.7	102030.6	142857.8
-15°	6496.9	6763.2	6962.9	7095.1	7461.2	9485.6	15321.4	27800.6	46483.9	68472.7	95039.1
-17.5°	6416.1	6813.3	7005.5	7150.9	7271.3	7791.6	10807.5	17065.1	28734.4	43138.8	56116.4
-20°	6287.5	6818.8	7036.5	7232.3	7369.1	7510.9	7895.1	10867.6	15614.9	24452.0	33101.4



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6178.8	6672.8	7127.1	7338.7	7496.1	7506.5	7518.4	7876.2	9729.8	12707.1	17282.6
-25°	6103.4	6570.9	7099.4	7427.2	7536.3	7540.2	7480.7	7414.2	7624.4	7835.6	9507.5
-27.5°	5975.9	6483.0	6979.8	7379.5	7541.1	7535.6	7490.4	7446.1	7373.3	7325.7	7506.1
-30°	5819.9	6329.4	6792.0	7194.0	7433.5	7507.1	7476.3	7443.3	7420.8	7405.0	7372.7
-32.5°	4988.6	6140.8	6530.5	6895.3	7237.1	7386.8	7453.5	7438.0	7417.8	7409.1	7414.8
-35°	4074.8	5264.4	6276.1	6536.1	6832.8	7130.7	7340.9	7388.5	7409.5	7405.9	7415.1
-37.5°	3124.4	4196.1	5190.2	6021.1	6378.1	6688.0	6993.5	7195.9	7317.3	7338.4	7367.0
-40°	2692.8	2995.8	3937.4	4772.6	5467.3	6106.9	6430.5	6780.4	7053.3	7163.1	7220.8
-42.5°	2578.6	2699.0	2822.7	3435.2	4154.5	4764.3	5368.4	5968.9	6467.2	6749.1	6932.5
-45°	2528.9	2596.1	2667.4	2766.0	2854.4	3369.4	3924.0	4509.1	5164.1	5653.3	6109.1
-47.5°	2384.1	2519.3	2587.5	2629.3	2660.4	2728.4	2789.2	2954.0	3499.1	3927.8	4403.3
-50°	2192.6	2330.1	2441.5	2540.6	2574.5	2590.2	2608.5	2663.3	2750.3	2813.6	2909.4
-52.5°	1971.0	2099.9	2224.1	2330.2	2406.0	2471.3	2533.6	2576.8	2612.1	2648.7	2683.3
-55°	1759.0	1868.8	1975.3	2074.9	2165.3	2240.6	2314.7	2385.2	2451.4	2513.6	2571.7
-57.5°	1526.6	1636.2	1734.1	1823.6	1900.6	1963.4	2036.6	2114.3	2187.1	2251.7	2314.7
-60°	1292.0	1391.8	1485.4	1570.0	1640.5	1696.0	1767.1	1836.8	1903.3	1963.5	2016.3
-62.5°	1071.4	1156.6	1237.3	1311.9	1378.7	1438.3	1497.9	1557.6	1620.5	1676.8	1726.5
-65°	885.0	953.1	1010.3	1063.6	1108.5	1162.3	1219.7	1273.1	1328.5	1380.7	1428.2
-67.5°	697.8	755.5	803.5	849.5	887.1	924.9	967.5	1008.2	1047.3	1087.8	1127.4
-70°	526.6	567.2	597.5	629.0	666.0	700.5	734.9	769.4	802.0	837.6	874.4
-72.5°	393.0	412.7	432.7	458.2	480.3	505.3	530.0	556.5	583.4	609.3	633.4
-75°	314.5	327.1	342.3	354.7	364.2	376.4	390.1	406.7	423.5	440.3	456.1
-77.5°	279.9	288.5	295.4	300.8	305.4	311.6	317.9	329.6	342.2	356.2	370.4
-80°	253.0	258.6	263.3	267.3	270.7	275.9	281.1	291.3	302.1	312.5	322.7
-82.5°	225.7	230.3	234.3	237.7	240.9	245.8	250.7	258.9	267.1	277.3	287.4
-85°	199.2	203.3	207.1	210.2	213.2	217.1	220.8	228.4	236.1	244.2	252.3
-87.5°	176.9	180.4	183.8	186.4	189.0	192.2	195.4	201.4	207.4	213.9	220.5
-90°	3.5	3.5	3.5	2.9	2.3	2.3	2.3	2.3	2.3	1.8	1.2



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	202.8	203.4	203.4	203.4	203.4	203.4	202.8	202.2	196.4	190.6	185.4
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.4	3.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.5	3.5	3.5
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.0	3.5	4.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.6
75°	4.1	3.5	3.5	3.5	3.5	3.5	4.1	4.6	5.0	5.3	5.1
72.5°	28.5	30.5	31.7	32.5	31.7	30.5	28.5	26.2	23.8	21.3	18.7
70°	36.7	37.0	37.2	37.2	37.2	37.0	36.7	36.0	34.7	33.1	31.3
67.5°	45.1	46.1	46.4	46.5	46.4	46.1	45.1	43.5	40.8	38.4	36.2
65°	28.8	26.7	24.7	23.2	24.7	26.7	28.8	30.2	30.1	30.6	31.1
62.5°	17.4	16.7	16.4	16.3	16.4	16.7	17.4	17.8	17.7	18.6	20.3
60°	10.4	10.6	10.1	9.3	10.1	10.6	10.4	10.3	10.1	10.4	11.2
57.5°	7.5	8.0	8.6	9.3	8.6	8.0	7.5	7.1	6.7	6.7	7.0
55°	11.2	12.3	13.2	13.9	13.2	12.3	11.2	10.4	9.4	8.8	9.4
52.5°	32.5	29.1	28.1	29.1	28.1	29.1	32.5	36.0	37.7	37.7	32.4
50°	183.9	187.7	192.3	197.6	192.3	187.7	183.9	178.8	168.6	153.9	133.1
47.5°	434.6	426.3	418.6	416.1	418.6	426.3	434.6	429.3	410.7	383.5	379.3
45°	823.9	763.3	732.4	750.8	732.4	763.3	823.9	890.2	824.1	722.0	639.8
42.5°	1662.9	1752.6	1822.8	1856.0	1822.8	1752.6	1662.9	1585.9	1442.3	1302.1	1143.7
40°	2084.7	2050.9	2069.0	2096.6	2069.0	2050.9	2084.7	2141.0	2105.0	2170.9	2137.1
37.5°	2566.4	2577.5	2496.5	2363.9	2496.5	2577.5	2566.4	2546.4	2587.3	2561.6	2520.5
35°	2800.0	2944.4	3214.8	3279.8	3214.8	2944.4	2800.0	2747.0	2722.0	2699.1	2665.5
32.5°	3092.5	3242.4	3288.4	3306.5	3288.4	3242.4	3092.5	2920.6	2852.5	2832.4	2817.2
30°	3442.0	3509.7	3492.7	3518.0	3492.7	3509.7	3442.0	3247.2	3096.3	3050.3	3010.2
27.5°	3824.8	3864.4	3851.5	3885.3	3851.5	3864.4	3824.8	3729.2	3512.7	3390.3	3274.0
25°	4813.3	5125.6	5109.3	5182.3	5109.3	5125.6	4813.3	4481.7	4083.2	3887.1	3664.8
22.5°	9750.6	10854.5	11515.6	12155.5	11515.6	10854.5	9750.6	7524.3	5695.6	4814.9	4258.7
20°	21786.3	24967.9	25660.5	25408.2	25660.5	24967.9	21786.3	16763.5	12232.8	7121.9	5495.5
17.5°	46765.0	59459.6	66275.8	67033.9	66275.8	59459.6	46765.0	32582.3	25384.1	15983.8	8960.1
15°	88008.7	110196.0	122793.4	124117.0	122793.4	110196.0	88008.7	66940.4	46547.5	30592.8	17820.4
12.5°	143873.1	179206.3	205145.1	208039.0	205145.1	179206.3	143873.1	111254.6	74527.7	49769.9	29841.9
10°	220394.3	268164.6	305939.7	315142.3	305939.7	268164.6	220394.3	166081.1	117164.1	72569.2	41935.4
7.5°	296770.1	351285.8	395744.5	406204.9	395744.5	351285.8	296770.1	224721.2	156562.6	101033.2	59191.9
5°	356475.6	426227.4	461706.1	473428.2	461706.1	426227.4	356475.6	277956.4	193780.2	125850.8	73909.7
2.5°	401986.0	467848.4	509499.4	526588.2	509499.4	467848.4	401986.0	318658.8	224151.0	144382.7	85421.2
0°	419554.0	483440.6	536481.0	569463.9	536481.0	483440.6	419554.0	334689.5	235978.4	152637.6	88577.8
-2.5°	412667.6	474179.3	519257.2	540652.7	519257.2	474179.3	412667.6	328666.9	232038.5	150671.7	90698.7
-5°	377854.7	439931.2	474784.3	485824.3	474784.3	439931.2	377854.7	298346.3	211953.7	139177.7	84462.8
-7.5°	319516.1	374157.2	415483.6	422891.3	415483.6	374157.2	319516.1	252584.3	177962.9	118277.1	72805.8
-10°	253235.9	300537.3	332063.9	338027.4	332063.9	300537.3	253235.9	195781.5	139989.2	92500.1	54926.7
-12.5°	179506.5	221055.8	245981.7	250581.0	245981.7	221055.8	179506.5	142857.8	102030.6	66580.7	42012.9
-15°	121983.6	147863.9	162971.2	164496.8	162971.2	147863.9	121983.6	95039.1	68472.7	46483.9	27800.6
-17.5°	76325.2	91719.5	101135.3	101222.6	101135.3	91719.5	76325.2	56116.4	43138.8	28734.4	17065.1
-20°	44187.8	51533.9	56801.8	56779.7	56801.8	51533.9	44187.8	33101.4	24452.0	15614.9	10867.6



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	23022.4	27388.5	30564.9	30419.7	30564.9	27388.5	23022.4	17282.6	12707.1	9729.8	7876.2
-25°	11305.0	12976.6	14089.1	14002.3	14089.1	12976.6	11305.0	9507.5	7835.6	7624.4	7414.2
-27.5°	7661.3	7845.3	7972.3	7985.5	7972.3	7845.3	7661.3	7506.1	7325.7	7373.3	7446.1
-30°	7360.1	7402.2	7446.5	7457.9	7446.5	7402.2	7360.1	7372.7	7405.0	7420.8	7443.3
-32.5°	7432.9	7465.7	7514.4	7545.1	7514.4	7465.7	7432.9	7414.8	7409.1	7417.8	7438.0
-35°	7438.2	7476.3	7532.6	7557.8	7532.6	7476.3	7438.2	7415.1	7405.9	7409.5	7388.5
-37.5°	7403.6	7450.2	7498.5	7520.7	7498.5	7450.2	7403.6	7367.0	7338.4	7317.3	7195.9
-40°	7272.2	7319.8	7355.1	7357.9	7355.1	7319.8	7272.2	7220.8	7163.1	7053.3	6780.4
-42.5°	7054.7	7113.7	7140.9	7136.0	7140.9	7113.7	7054.7	6932.5	6749.1	6467.2	5968.9
-45°	6541.2	6750.2	6852.8	6878.0	6852.8	6750.2	6541.2	6109.1	5653.3	5164.1	4509.1
-47.5°	4954.5	5260.9	5457.3	5535.6	5457.3	5260.9	4954.5	4403.3	3927.8	3499.1	2954.0
-50°	3034.6	3063.0	3081.8	3091.5	3081.8	3063.0	3034.6	2909.4	2813.6	2750.3	2663.3
-52.5°	2712.2	2720.3	2724.7	2725.4	2724.7	2720.3	2712.2	2683.3	2648.7	2612.1	2576.8
-55°	2613.6	2630.0	2640.3	2642.9	2640.3	2630.0	2613.6	2571.7	2513.6	2451.4	2385.2
-57.5°	2356.2	2365.6	2376.0	2382.5	2376.0	2365.6	2356.2	2314.7	2251.7	2187.1	2114.3
-60°	2048.0	2056.5	2058.2	2052.5	2058.2	2056.5	2048.0	2016.3	1963.5	1903.3	1836.8
-62.5°	1753.6	1761.6	1769.5	1772.4	1769.5	1761.6	1753.6	1726.5	1676.8	1620.5	1557.6
-65°	1450.4	1454.4	1456.2	1452.8	1456.2	1454.4	1450.4	1428.2	1380.7	1328.5	1273.1
-67.5°	1146.1	1154.0	1165.1	1172.7	1165.1	1154.0	1146.1	1127.4	1087.8	1047.3	1008.2
-70°	882.8	879.3	886.8	892.6	886.8	879.3	882.8	874.4	837.6	802.0	769.4
-72.5°	636.5	632.8	630.1	625.3	630.1	632.8	636.5	633.4	609.3	583.4	556.5
-75°	455.2	450.7	449.9	448.6	449.9	450.7	455.2	456.1	440.3	423.5	406.7
-77.5°	370.6	368.9	366.6	363.8	366.6	368.9	370.6	370.4	356.2	342.2	329.6
-80°	323.6	323.8	322.4	320.8	322.4	323.8	323.6	322.7	312.5	302.1	291.3
-82.5°	287.9	287.8	287.0	285.9	287.0	287.8	287.9	287.4	277.3	267.1	258.9
-85°	252.9	253.2	252.1	251.0	252.1	253.2	252.9	252.3	244.2	236.1	228.4
-87.5°	221.2	221.9	221.4	220.8	221.4	221.9	221.2	220.5	213.9	207.4	201.4
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	180.1	176.7	173.2	171.5	169.7	166.2	162.7	158.1	153.4	147.6	141.8
87.5°	2.3	2.9	3.4	3.4	3.5	3.5	3.5	3.5	3.5	4.1	4.6
85°	3.4	3.4	3.5	3.9	4.3	4.3	4.2	4.1	4.1	4.3	4.6
82.5°	3.5	4.0	4.3	4.4	4.6	4.6	4.6	4.8	5.0	4.9	4.8
80°	4.3	4.5	4.6	4.6	4.6	4.9	5.0	5.4	5.8	5.7	5.6
77.5°	3.9	4.3	4.7	4.9	5.1	5.4	5.8	5.8	5.9	6.3	6.4
75°	5.3	6.3	6.9	7.1	6.9	6.1	6.0	6.4	6.6	6.8	7.0
72.5°	16.5	15.2	14.5	13.9	12.8	12.4	11.8	10.9	9.8	8.1	7.0
70°	29.9	28.7	27.8	27.9	27.8	27.1	23.8	19.9	16.9	14.7	11.8
67.5°	36.3	37.9	39.5	40.5	39.9	39.5	36.6	32.5	31.1	28.4	20.6
65°	33.3	36.4	38.3	39.0	39.5	41.7	44.6	43.7	45.6	43.8	34.1
62.5°	23.7	27.8	30.1	31.9	32.3	34.3	40.1	46.3	55.5	58.1	47.1
60°	13.8	16.3	19.1	22.0	23.8	28.0	34.8	45.0	57.9	57.1	52.5
57.5°	8.8	10.7	13.5	15.7	16.4	21.3	28.6	41.3	54.3	53.9	47.3
55°	11.8	13.7	14.9	17.5	18.7	22.4	26.2	36.7	49.0	53.1	50.8
52.5°	23.1	31.0	33.4	30.3	30.2	31.9	34.0	42.4	49.8	55.8	58.0
50°	118.6	130.6	115.2	92.2	95.8	67.2	74.7	72.8	69.7	72.9	70.8
47.5°	362.9	335.7	308.8	284.9	255.2	220.9	213.0	164.7	159.9	119.0	118.6
45°	625.7	594.4	549.8	512.2	492.9	454.7	428.9	392.1	318.8	284.7	197.7
42.5°	1137.6	962.3	809.5	740.5	672.4	642.4	622.6	598.4	559.3	490.2	410.0
40°	1934.2	1727.3	1436.3	1063.6	902.1	795.3	757.9	749.7	730.0	692.7	608.0
37.5°	2505.3	2387.6	2095.5	1772.9	1337.2	1066.8	933.2	860.7	856.2	836.5	780.1
35°	2630.5	2594.9	2537.9	2303.3	1932.9	1708.5	1263.6	1045.9	958.7	943.1	924.1
32.5°	2795.2	2757.5	2707.0	2663.1	2567.9	2538.3	1987.1	1381.3	1097.2	1039.7	1009.5
30°	2970.1	2945.5	2911.4	2896.3	2903.9	2893.2	2764.9	1994.8	1404.9	1133.3	1098.8
27.5°	3211.5	3144.4	3117.2	3143.3	3195.7	3226.3	3128.0	2747.5	1839.2	1388.9	1188.4
25°	3545.6	3444.7	3406.3	3464.7	3557.8	3595.1	3530.0	3280.0	2650.1	1730.5	1281.9
22.5°	3989.7	3910.2	3891.8	4014.7	4042.5	4081.6	3960.5	3810.5	3471.8	2246.3	1566.8
20°	4628.3	4443.5	4435.9	4461.8	4461.1	4442.4	4294.4	4159.1	3788.0	2909.6	1886.2
17.5°	5960.3	4974.3	4826.4	4775.7	4732.9	4628.7	4541.9	4333.3	4064.9	3469.7	2196.1
15°	8607.5	6086.1	5272.8	5158.3	5086.7	4973.8	4862.7	4622.0	4369.2	3816.7	2640.0
12.5°	16579.1	7806.4	5666.9	5402.8	5346.1	5256.5	5119.6	5002.6	4667.9	4130.2	3098.9
10°	23379.9	11323.3	6763.7	5687.0	5490.7	5368.5	5261.7	5143.3	4862.7	4413.3	3547.5
7.5°	32525.8	16530.1	8005.5	5973.3	5675.1	5470.6	5332.5	5214.6	4986.5	4533.7	3845.1
5°	39795.9	20289.5	8969.8	6255.1	5913.7	5670.2	5414.8	5289.1	5062.9	4579.6	4041.4
2.5°	44131.2	22709.7	9550.8	6416.9	6088.9	5932.0	5547.9	5362.3	5092.1	4610.7	4165.8
0°	46677.8	23906.6	10135.6	6501.4	6171.3	6077.2	5757.6	5431.0	5081.2	4620.9	4225.8
-2.5°	48681.3	25127.7	10429.2	6666.5	6298.5	6194.2	5994.6	5696.6	5139.9	4633.6	4261.1
-5°	46442.7	23906.6	10397.1	6768.4	6408.8	6307.7	6149.2	5870.2	5229.0	4661.6	4235.3
-7.5°	41020.4	20660.2	9782.5	6854.8	6525.3	6419.5	6254.5	5979.1	5412.5	4804.8	4175.7
-10°	32196.6	15771.9	8658.2	6936.5	6676.1	6537.5	6357.3	6010.8	5489.3	4917.9	4050.5
-12.5°	23660.5	11996.3	7602.2	6970.9	6851.1	6672.7	6450.0	5999.3	5536.7	5070.0	3967.6
-15°	15321.4	9485.6	7461.2	7095.1	6962.9	6763.2	6496.9	5968.4	5547.3	5162.6	3771.9
-17.5°	10807.5	7791.6	7271.3	7150.9	7005.5	6813.3	6416.1	5931.9	5500.4	4897.9	3369.2
-20°	7895.1	7510.9	7369.1	7232.3	7036.5	6818.8	6287.5	5863.1	5376.0	4352.9	3016.6



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7518.4	7506.5	7496.1	7338.7	7127.1	6672.8	6178.8	5751.6	5191.7	3814.7	2673.6
-25°	7480.7	7540.2	7536.3	7427.2	7099.4	6570.9	6103.4	5559.4	4581.2	3346.5	2355.0
-27.5°	7490.4	7535.6	7541.1	7379.5	6979.8	6483.0	5975.9	5253.5	3830.3	2847.8	2344.5
-30°	7476.3	7507.1	7433.5	7194.0	6792.0	6329.4	5819.9	4455.2	3241.5	2467.6	2313.9
-32.5°	7453.5	7386.8	7237.1	6895.3	6530.5	6140.8	4988.6	3667.5	2689.2	2424.2	2289.3
-35°	7340.9	7130.7	6832.8	6536.1	6276.1	5264.4	4074.8	2972.3	2525.7	2376.7	2263.5
-37.5°	6993.5	6688.0	6378.1	6021.1	5190.2	4196.1	3124.4	2635.4	2454.9	2346.8	2191.8
-40°	6430.5	6106.9	5467.3	4772.6	3937.4	2995.8	2692.8	2530.9	2423.2	2280.9	2090.5
-42.5°	5368.4	4764.3	4154.5	3435.2	2822.7	2699.0	2578.6	2486.6	2353.2	2165.6	1956.6
-45°	3924.0	3369.4	2854.4	2766.0	2667.4	2596.1	2528.9	2390.1	2225.5	2018.7	1811.1
-47.5°	2789.2	2728.4	2660.4	2629.3	2587.5	2519.3	2384.1	2238.5	2049.0	1849.4	1657.4
-50°	2608.5	2590.2	2574.5	2540.6	2441.5	2330.1	2192.6	2048.0	1865.4	1681.2	1499.1
-52.5°	2533.6	2471.3	2406.0	2330.2	2224.1	2099.9	1971.0	1841.2	1681.5	1507.6	1335.9
-55°	2314.7	2240.6	2165.3	2074.9	1975.3	1868.8	1759.0	1630.1	1486.8	1325.5	1169.9
-57.5°	2036.6	1963.4	1900.6	1823.6	1734.1	1636.2	1526.6	1405.1	1284.6	1141.2	1002.2
-60°	1767.1	1696.0	1640.5	1570.0	1485.4	1391.8	1292.0	1187.0	1075.7	973.1	865.6
-62.5°	1497.9	1438.3	1378.7	1311.9	1237.3	1156.6	1071.4	992.1	910.3	821.9	723.5
-65°	1219.7	1162.3	1108.5	1063.6	1010.3	953.1	885.0	814.9	741.2	662.9	577.5
-67.5°	967.5	924.9	887.1	849.5	803.5	755.5	697.8	636.4	576.3	515.6	448.7
-70°	734.9	700.5	666.0	629.0	597.5	567.2	526.6	481.5	430.7	388.8	350.9
-72.5°	530.0	505.3	480.3	458.2	432.7	412.7	393.0	368.9	339.8	307.6	281.3
-75°	390.1	376.4	364.2	354.7	342.3	327.1	314.5	300.4	285.7	270.0	254.3
-77.5°	317.9	311.6	305.4	300.8	295.4	288.5	279.9	268.2	256.8	244.0	231.1
-80°	281.1	275.9	270.7	267.3	263.3	258.6	253.0	243.2	232.9	221.1	209.8
-82.5°	250.7	245.8	240.9	237.7	234.3	230.3	225.7	217.3	208.8	199.3	190.0
-85°	220.8	217.1	213.2	210.2	207.1	203.3	199.2	192.6	186.0	177.9	169.8
-87.5°	195.4	192.2	189.0	186.4	183.8	180.4	176.9	171.8	166.7	160.0	153.3
-90°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	3.5	3.5	4.1	4.6



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	136.0	130.2	125.0	119.7	115.1	110.4	105.2	99.9	93.0	86.0	77.3
87.5°	4.6	4.6	5.0	5.3	5.2	5.2	5.5	5.8	5.8	5.8	6.0
85°	4.8	5.0	5.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.2
82.5°	5.3	5.7	5.7	5.8	6.2	6.4	6.3	6.1	6.1	5.9	6.4
80°	5.6	5.9	6.1	6.2	6.6	7.0	6.8	6.7	6.8	6.7	6.8
77.5°	6.2	6.2	6.6	6.8	6.9	7.1	7.2	7.2	7.5	7.4	7.3
75°	7.0	6.8	6.9	7.1	7.1	7.2	7.5	7.7	8.0	8.1	7.8
72.5°	7.0	7.1	7.2	7.3	7.6	7.8	8.0	8.3	8.5	8.6	8.2
70°	9.2	7.8	7.7	8.0	8.2	8.4	8.6	8.9	9.0	9.1	8.8
67.5°	12.9	10.8	9.4	8.9	8.9	9.2	9.3	9.6	9.8	9.7	9.5
65°	25.1	17.4	11.5	10.9	10.2	10.2	10.4	10.7	10.7	10.9	10.1
62.5°	36.8	27.1	19.9	14.6	12.6	12.9	11.7	12.5	11.9	12.2	11.4
60°	48.1	37.3	29.2	23.2	18.7	16.8	16.0	14.6	14.4	13.7	13.0
57.5°	47.2	45.6	41.1	33.1	28.4	24.0	21.6	19.5	17.3	16.5	14.8
55°	46.5	46.5	51.5	46.5	40.8	34.1	30.1	26.1	21.5	19.9	17.0
52.5°	54.3	55.3	59.4	62.2	57.9	47.6	43.2	33.4	29.6	23.6	20.6
50°	67.4	73.3	74.1	80.6	77.2	70.3	57.9	47.8	38.4	28.9	24.5
47.5°	102.0	107.6	101.9	107.2	102.2	96.6	81.5	64.9	48.0	37.8	28.6
45°	195.6	163.2	158.0	148.9	137.2	130.6	110.2	83.6	65.2	47.6	32.9
42.5°	326.2	280.3	254.2	199.3	193.5	170.4	143.8	113.7	83.7	58.2	40.1
40°	509.5	441.3	379.9	317.7	263.6	215.2	186.9	147.9	103.5	71.7	49.7
37.5°	687.5	606.4	535.9	443.4	353.1	288.7	234.2	184.4	129.0	90.9	59.6
35°	835.6	759.9	665.4	566.2	471.3	363.5	285.0	225.4	163.2	111.1	69.8
32.5°	957.1	880.6	772.3	671.9	565.4	438.2	346.7	268.9	197.9	132.2	80.4
30°	1048.0	975.0	872.1	755.0	641.8	515.9	408.6	310.3	233.0	154.1	92.6
27.5°	1142.1	1072.0	968.7	839.4	707.8	582.7	459.4	349.5	268.3	176.6	108.8
25°	1236.1	1164.2	1068.6	932.6	773.9	635.2	505.5	386.8	301.8	200.1	124.0
22.5°	1318.3	1249.2	1168.0	1031.1	848.6	686.0	548.9	427.1	324.5	221.8	138.4
20°	1393.9	1321.4	1261.2	1114.6	929.8	747.0	591.2	458.5	345.5	241.6	151.8
17.5°	1502.0	1385.7	1309.9	1178.7	1006.3	809.7	635.0	488.2	364.8	259.5	164.2
15°	1749.0	1448.8	1357.7	1235.2	1068.7	868.7	678.8	516.7	382.3	275.5	175.2
12.5°	1975.1	1508.6	1407.8	1283.5	1115.5	920.4	721.8	543.7	398.1	290.6	184.5
10°	2203.4	1566.6	1456.9	1330.3	1155.6	965.1	763.2	571.6	417.5	305.0	192.8
7.5°	2453.7	1623.5	1502.8	1375.2	1190.3	1001.6	799.3	603.3	436.4	317.9	200.0
5°	2681.1	1675.9	1550.4	1425.2	1225.4	1030.4	830.1	632.4	453.7	329.2	206.1
2.5°	2840.4	1720.3	1597.2	1472.0	1255.7	1053.6	856.2	658.5	469.1	338.7	211.1
0°	2959.0	1759.6	1639.9	1513.2	1280.8	1071.6	877.5	681.1	482.3	346.3	215.0
-2.5°	2954.1	1792.6	1674.9	1552.9	1327.2	1097.8	891.3	692.9	496.2	356.9	222.8
-5°	2903.6	1821.6	1706.6	1586.5	1366.2	1118.3	900.5	700.8	507.5	365.3	229.4
-7.5°	2841.2	1854.1	1736.5	1613.5	1396.1	1132.0	905.2	705.1	516.1	371.3	234.5
-10°	2738.2	1886.1	1764.2	1626.5	1402.2	1140.2	906.7	705.8	521.9	375.0	238.0
-12.5°	2611.1	1915.4	1787.8	1631.8	1399.0	1144.0	912.7	705.0	524.2	376.2	239.8
-15°	2442.0	1954.5	1816.7	1630.3	1389.6	1142.6	912.1	700.1	520.0	373.4	239.8
-17.5°	2203.5	1983.8	1844.1	1624.7	1375.3	1136.0	904.4	689.7	512.7	366.5	237.3
-20°	2175.1	2010.9	1859.3	1607.1	1355.2	1121.8	889.3	673.6	502.3	357.2	232.8



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2194.8	2041.6	1852.1	1577.6	1330.6	1100.9	867.5	652.1	488.7	345.7	226.8
-25°	2199.0	2070.9	1841.4	1561.6	1302.2	1071.8	842.0	631.1	471.9	331.8	219.2
-27.5°	2197.3	2065.7	1824.8	1527.7	1271.0	1035.8	813.9	616.2	458.1	315.7	210.1
-30°	2192.1	2010.1	1766.0	1478.6	1227.7	995.3	781.2	597.7	442.7	302.8	199.4
-32.5°	2161.8	1948.0	1690.3	1422.9	1176.4	949.7	745.0	575.2	423.8	291.9	192.7
-35°	2082.5	1863.7	1613.0	1358.9	1119.7	905.5	709.6	548.7	401.6	278.4	187.0
-37.5°	1995.6	1759.0	1534.7	1288.9	1057.6	856.0	676.7	519.9	376.1	262.2	180.5
-40°	1869.8	1644.8	1431.3	1210.4	993.9	800.6	638.7	487.6	352.9	243.2	172.4
-42.5°	1738.0	1525.2	1322.0	1117.9	925.5	750.8	595.9	450.8	328.2	228.9	162.8
-45°	1604.3	1401.7	1208.1	1026.9	852.3	695.0	549.5	411.2	300.1	216.1	155.4
-47.5°	1463.0	1274.7	1096.8	929.7	782.8	633.6	495.9	375.8	269.2	201.3	152.4
-50°	1317.4	1145.0	984.1	839.2	703.6	567.4	440.1	336.6	249.9	184.5	148.9
-52.5°	1170.2	1014.1	876.6	748.6	620.8	495.2	389.4	294.8	228.7	175.8	144.8
-55°	1020.0	893.1	773.6	653.4	533.7	430.6	335.4	266.8	205.7	170.2	140.4
-57.5°	889.6	778.3	665.1	553.3	454.4	365.4	293.7	237.3	194.6	164.0	137.6
-60°	761.0	656.3	551.7	462.7	379.1	310.9	259.2	213.1	186.5	157.8	134.3
-62.5°	627.1	534.1	453.4	376.1	317.8	269.8	227.6	202.1	177.4	153.2	130.6
-65°	501.6	427.1	358.1	313.8	270.2	234.2	214.0	190.6	169.9	148.1	126.6
-67.5°	381.6	340.6	299.7	260.0	237.0	218.3	199.6	181.0	162.6	142.5	122.3
-70°	313.0	276.4	252.9	235.8	218.9	202.4	188.0	172.0	154.8	137.1	117.6
-72.5°	264.2	247.4	231.3	215.9	202.8	189.6	176.7	162.8	147.5	131.3	112.8
-75°	238.5	224.8	212.6	200.5	188.5	176.6	165.8	154.0	140.0	125.3	107.7
-77.5°	218.6	206.6	195.7	185.2	175.1	165.2	155.4	144.8	132.0	118.7	102.3
-80°	199.5	189.5	180.1	170.7	162.1	153.6	144.3	135.0	123.4	111.7	96.7
-82.5°	181.4	172.8	164.2	155.6	147.9	140.2	132.5	124.7	114.6	104.4	91.3
-85°	162.6	155.3	147.6	139.9	133.2	126.5	121.1	115.4	107.0	98.4	86.8
-87.5°	147.3	141.3	135.1	129.0	123.8	118.5	113.2	107.7	100.0	92.3	82.1
-90°	4.6	4.6	4.6	4.6	4.6	4.6	5.2	5.8	5.8	5.8	5.8



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	68.6	56.9	45.3	31.9	18.6	12.2	5.8
87.5°	6.1	6.1	6.0	6.0	6.0	6.0	5.8
85°	6.4	6.3	6.2	6.3	6.2	6.1	5.8
82.5°	6.7	6.6	6.4	6.5	6.4	6.3	5.8
80°	7.0	6.8	6.7	6.7	6.6	6.4	5.8
77.5°	7.3	7.1	6.9	7.0	6.8	6.6	5.8
75°	7.7	7.5	7.1	7.2	7.0	6.7	5.8
72.5°	8.0	7.9	7.6	7.4	7.2	6.9	5.8
70°	8.4	8.3	8.0	7.7	7.5	7.0	5.8
67.5°	9.1	8.7	8.4	8.0	7.7	7.2	5.8
65°	9.8	9.3	8.8	8.3	7.9	7.3	5.8
62.5°	10.5	10.0	9.2	8.6	8.2	7.5	5.8
60°	11.3	10.7	9.6	8.9	8.4	7.6	5.8
57.5°	13.2	11.4	10.4	9.3	8.7	7.8	5.8
55°	15.4	12.2	11.2	9.6	9.1	7.9	5.8
52.5°	17.7	13.2	12.1	9.8	9.5	8.1	5.8
50°	20.2	15.6	13.0	10.1	9.9	8.2	5.8
47.5°	22.9	18.1	14.0	10.5	10.3	8.4	5.8
45°	26.6	20.8	15.1	11.3	10.8	8.5	5.8
42.5°	30.4	23.5	16.1	12.2	11.2	8.7	5.8
40°	34.4	26.3	17.8	13.3	11.7	8.8	5.8
37.5°	38.8	29.1	20.0	14.7	12.3	8.9	5.8
35°	43.2	32.4	22.2	16.1	12.8	9.1	5.8
32.5°	49.0	36.0	24.4	17.6	13.4	9.2	5.8
30°	57.6	39.5	26.5	19.1	14.0	9.4	5.8
27.5°	66.1	43.1	29.4	20.7	14.6	9.5	5.8
25°	74.5	46.6	32.2	22.2	15.2	9.6	5.8
22.5°	82.7	50.2	34.9	23.8	15.8	9.7	5.8
20°	90.7	53.9	37.5	25.4	16.4	9.8	5.8
17.5°	98.0	57.5	40.1	27.0	17.0	9.9	5.8
15°	104.5	61.0	42.5	28.6	17.6	10.0	5.8
12.5°	110.4	64.3	44.8	30.2	18.2	10.1	5.8
10°	115.8	67.4	47.0	31.7	18.8	10.2	5.8
7.5°	120.6	70.3	49.1	33.2	19.4	10.3	5.8
5°	124.8	73.1	51.1	34.6	19.9	10.4	5.8
2.5°	128.3	75.6	52.9	35.9	20.4	10.4	5.8
0°	131.3	77.9	54.6	37.2	20.9	10.5	5.8
-2.5°	135.5	81.1	57.0	38.8	22.0	11.0	5.8
-5°	139.0	84.1	59.2	40.4	23.1	11.4	5.8
-7.5°	141.9	86.9	61.3	41.8	24.1	11.8	5.8
-10°	144.1	89.3	63.3	43.2	25.0	12.2	5.8
-12.5°	145.6	91.5	65.0	44.4	25.9	12.6	5.8
-15°	146.3	93.4	66.6	45.5	26.7	13.0	5.8
-17.5°	146.3	95.1	68.0	46.5	27.5	13.4	5.8
-20°	145.7	96.4	69.2	47.4	28.2	13.7	5.8



REPORT NUMBER: P701706 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	144.6	97.3	70.2	48.2	28.9	14.0	5.8
-25°	142.6	98.2	71.1	48.9	29.4	14.3	5.8
-27.5°	139.8	98.8	71.7	49.5	29.9	14.6	5.8
-30°	136.1	99.1	72.1	49.9	30.3	14.8	5.8
-32.5°	131.5	99.1	72.6	50.2	30.6	15.0	5.8
-35°	129.6	98.8	73.0	50.4	30.9	15.2	5.8
-37.5°	128.9	98.5	73.2	50.5	31.0	15.4	5.8
-40°	127.8	98.4	73.1	50.5	31.1	15.5	5.8
-42.5°	126.2	98.1	73.1	50.4	31.1	15.6	5.8
-45°	124.2	97.6	73.0	50.4	31.0	15.7	5.8
-47.5°	121.8	96.8	72.7	50.2	30.8	15.7	5.8
-50°	120.1	95.8	72.3	49.9	30.5	15.7	5.8
-52.5°	118.4	94.5	71.6	49.6	30.2	15.7	5.8
-55°	116.4	93.2	70.8	49.1	29.7	15.6	5.8
-57.5°	114.0	91.7	69.8	48.4	29.2	15.6	5.8
-60°	111.4	89.9	68.6	47.6	28.6	15.4	5.8
-62.5°	108.7	87.8	67.3	46.7	28.1	15.3	5.8
-65°	105.6	85.5	65.8	45.7	27.6	15.1	5.8
-67.5°	102.2	83.0	64.1	44.5	26.9	14.9	5.8
-70°	98.5	80.2	62.2	43.2	26.2	14.7	5.8
-72.5°	94.7	77.3	60.2	42.1	25.5	14.5	5.8
-75°	90.7	74.2	58.0	40.9	24.6	14.2	5.8
-77.5°	86.5	70.9	56.1	39.7	23.7	13.9	5.8
-80°	82.1	68.1	54.2	38.3	22.8	13.6	5.8
-82.5°	78.8	65.5	52.1	36.8	21.8	13.3	5.8
-85°	75.5	62.8	50.0	35.3	20.8	12.9	5.8
-87.5°	72.1	59.9	47.7	33.7	19.7	12.6	5.8
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8

(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

