

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: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-2S-VHE-S**

Issue Date: 8/29/2023

Test Information

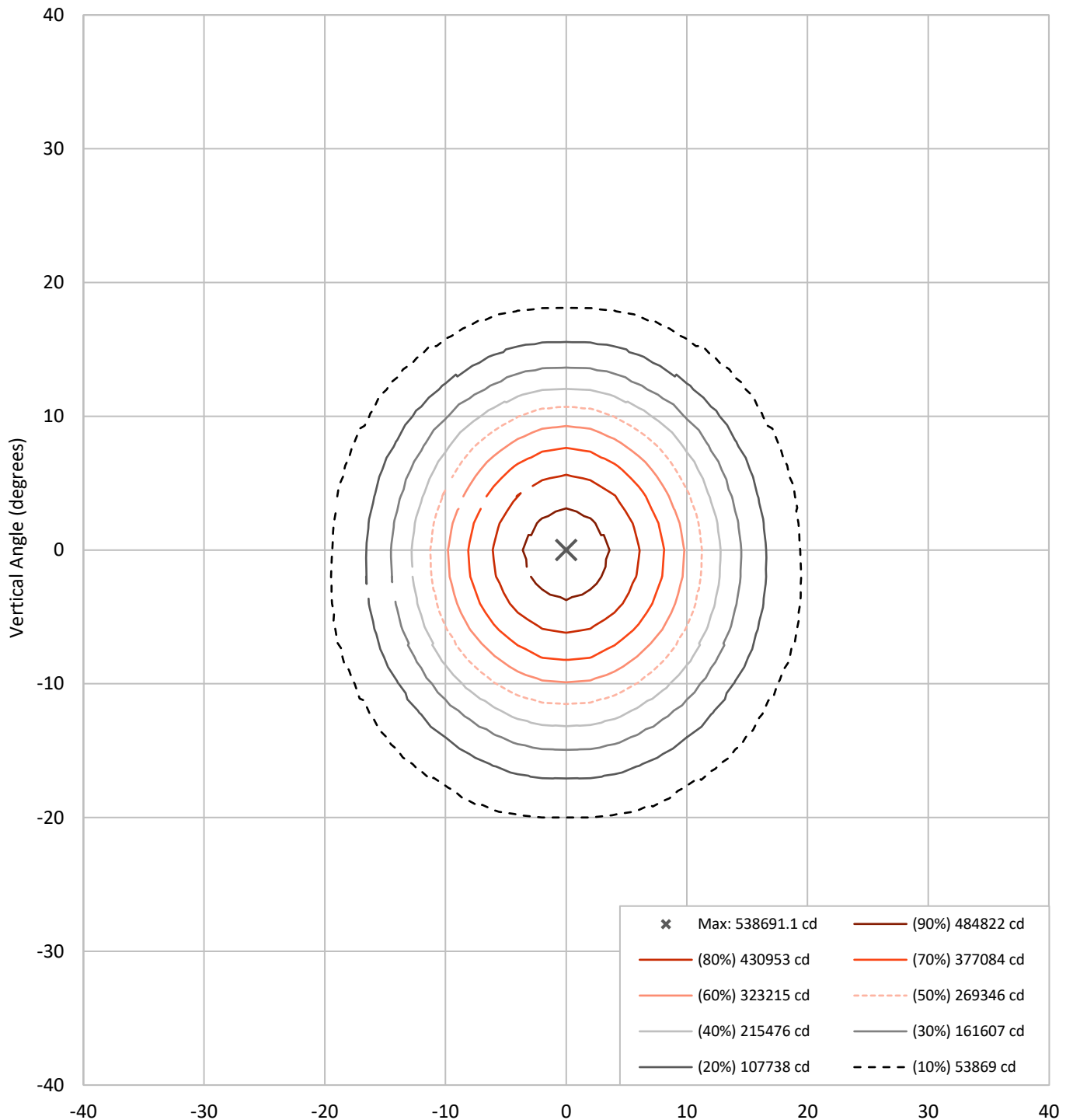
Test Method: LM-79-08
Report Number: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-80-2S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 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:	94155.2 lumens	Max Intensity:	538691.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.8 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:	43997.2 lumens	Field Lumens:	78380 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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Iso-Candela Plot





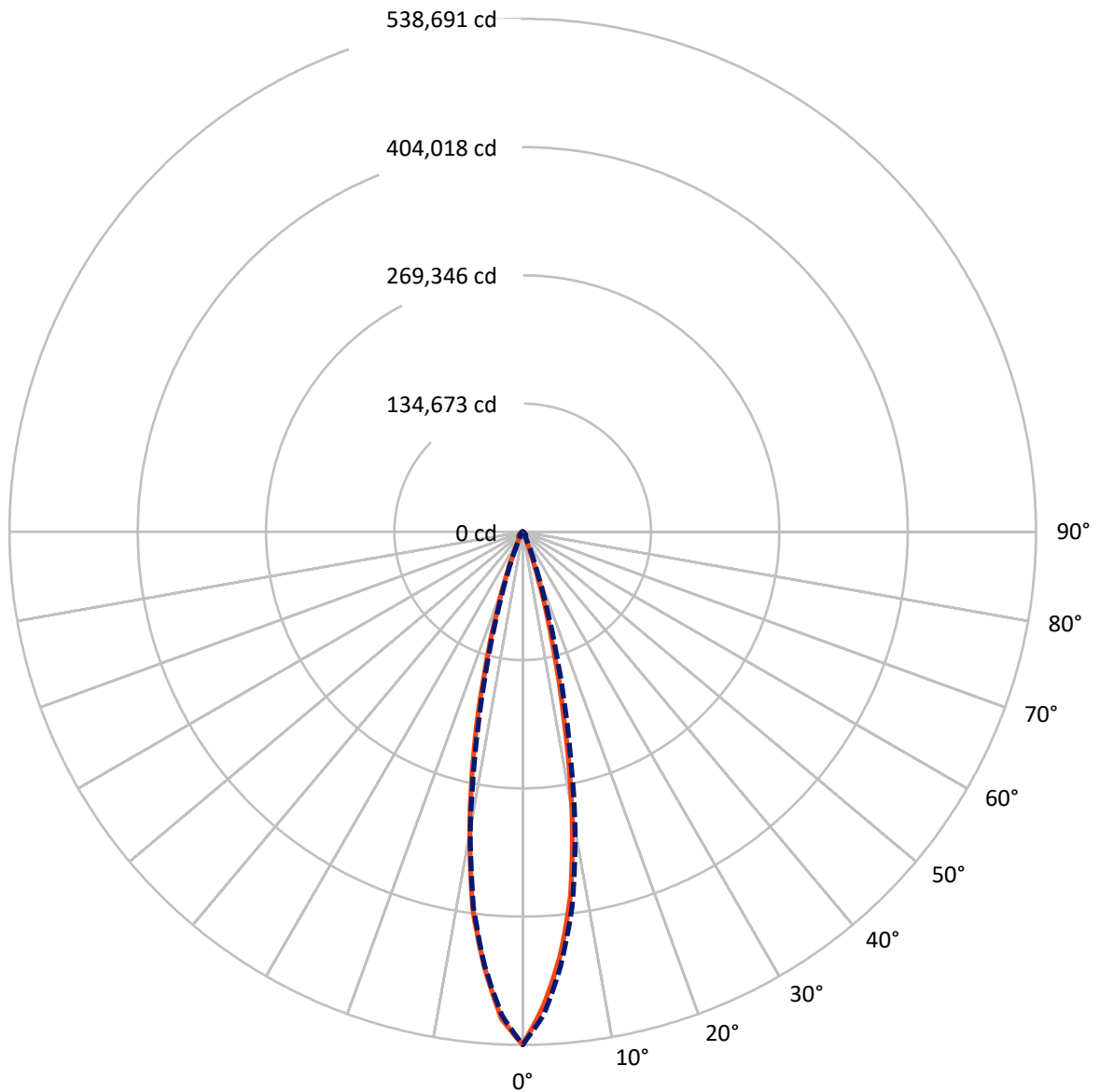
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Lumen Table

90	0.2		0.8		1.4		2.0		2.4		2.0		1.4		0.8		0.2	
80	0.2		0.1	0.2	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.7	0.2	0.1	0.2	
70	0.2		0.4	0.8	1.1	0.9	0.8	0.9	1.1	1.1	0.9	0.8	0.9	1.1	0.8	0.4	0.2	
60	0.7		1.1	2.8	5.6	9.9	16.2	24.9	29.3	29.3	24.9	16.2	9.9	5.6	2.8	1.1	0.7	
50	0.7		2.9	9.3	17.9	35.0	61.0	74.2	82.2	82.2	74.2	61.0	35.0	17.9	9.3	2.9	0.7	
40	1.9		5.0	15.4	32.7	80.0	93.1	128.4	234.6	234.6	128.4	93.1	80.0	32.7	15.4	5.0	1.9	
30	1.9		6.7	20.0	57.4	112.8	165.7	1051.3	3391.0	3391.0	1051.3	165.7	112.8	57.4	20.0	6.7	1.9	
20	2.7		8.1	23.1	74.9	129.2	370.6	3724.5	11196.6	11196.6	3724.5	370.6	129.2	74.9	23.1	8.1	2.7	
10	2.7		8.9	25.4	79.1	142.2	424.9	4056.3	11644.0	11644.0	4056.3	424.9	142.2	79.1	25.4	8.9	2.7	
0	2.9		9.0	26.6	76.2	149.6	243.2	1486.6	4355.0	4355.0	1486.6	243.2	149.6	76.2	26.6	9.0	2.9	
-10	2.9		8.3	26.1	58.3	141.0	193.4	268.7	537.3	537.3	268.7	193.4	141.0	58.3	26.1	8.3	2.9	
-20	2.4		7.1	22.8	45.6	98.6	173.7	203.4	213.3	213.3	203.4	173.7	98.6	45.6	22.8	7.1	2.4	
-30	2.4		5.4	17.3	36.9	58.8	90.4	137.5	172.6	172.6	137.5	90.4	58.8	36.9	17.3	5.4	2.4	
-40	1.9		3.5	11.0	24.2	41.2	55.7	66.5	73.4	73.4	66.5	55.7	41.2	24.2	11.0	3.5	1.9	
-50	1.9		2.4	5.5	12.1	21.0	29.5	37.1	41.8	41.8	37.1	29.5	21.0	12.1	5.5	2.4	1.9	
-60	1.9		2.4	5.5	12.1	21.0	29.5	37.1	41.8	41.8	37.1	29.5	21.0	12.1	5.5	2.4	1.9	
-70	1.9		2.4	5.5	12.1	21.0	29.5	37.1	41.8	41.8	37.1	29.5	21.0	12.1	5.5	2.4	1.9	
-80	1.4		8.6		20.9		34.9		42.7		34.9		20.9		8.6		1.4	
-90	1.4		8.6		20.9		34.9		42.7		34.9		20.9		8.6		1.4	

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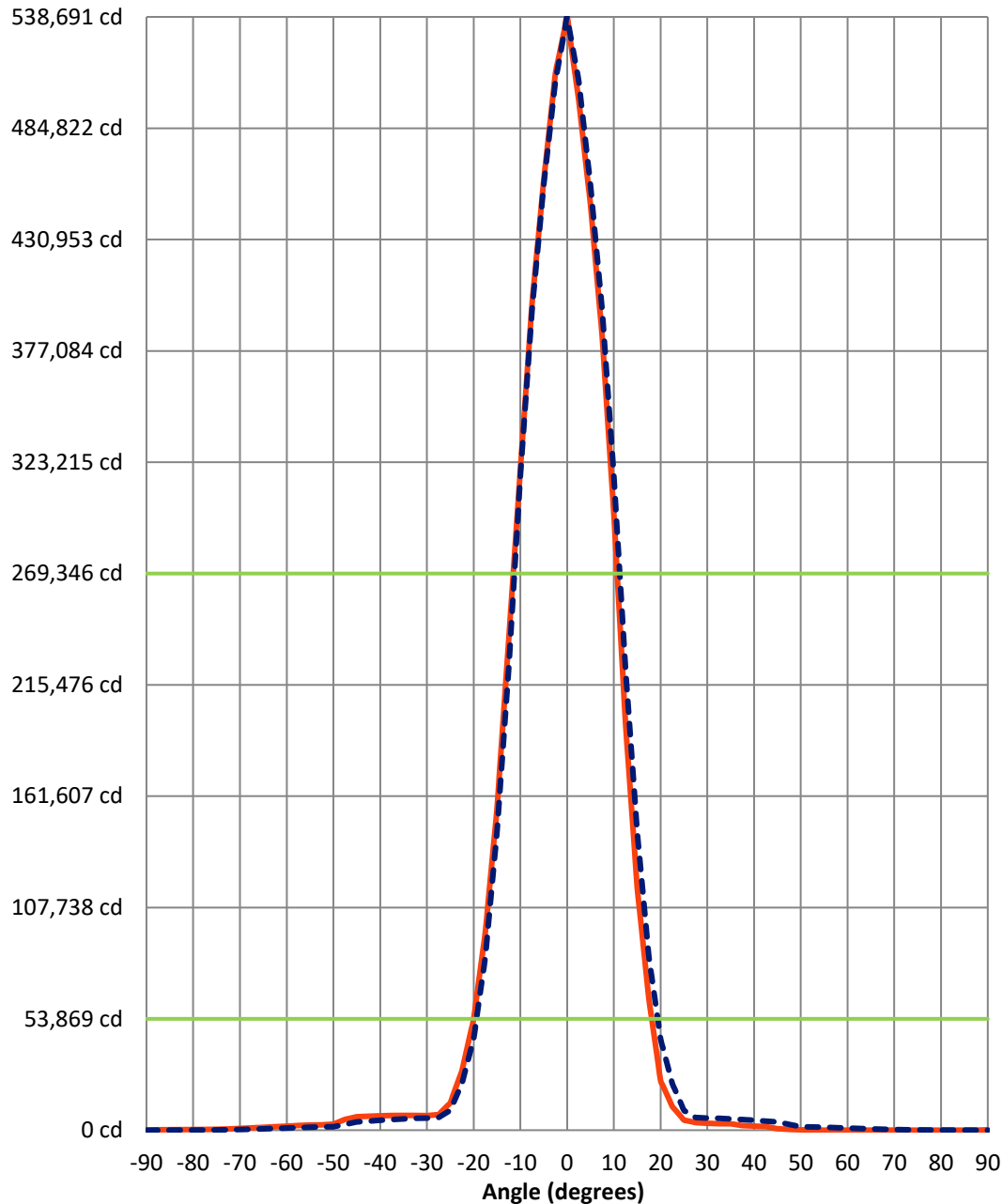
Luminous Intensity Polar Plot



— 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: 43997.2
Efficiency: 46.7%

Field:
H Angle: 38.8°
V Angle: 38.1°
Lumens: 78380
Efficiency: 83.2%

Spill:
Lumens: 15775.2
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°	5.5	11.5	17.6	30.2	42.9	53.9	64.9	73.2	81.4	88.0	94.5
87.5°	5.5	5.6	5.7	5.7	5.7	5.7	5.8	5.7	5.5	5.5	5.5
85°	5.5	5.8	5.9	5.9	5.9	6.0	6.1	5.8	5.5	5.5	5.5
82.5°	5.5	5.9	6.1	6.1	6.1	6.2	6.4	6.0	5.6	5.7	5.8
80°	5.5	6.1	6.3	6.4	6.3	6.4	6.6	6.4	6.3	6.4	6.3
77.5°	5.5	6.2	6.5	6.6	6.5	6.7	6.9	6.9	7.1	7.1	6.8
75°	5.5	6.4	6.7	6.8	6.7	7.1	7.2	7.4	7.7	7.6	7.3
72.5°	5.5	6.5	6.9	7.1	7.1	7.5	7.6	7.8	8.2	8.1	7.8
70°	5.5	6.7	7.1	7.3	7.5	7.9	8.0	8.4	8.6	8.5	8.4
67.5°	5.5	6.8	7.3	7.6	7.9	8.3	8.6	8.9	9.1	9.3	9.1
65°	5.5	6.9	7.5	7.9	8.3	8.8	9.3	9.5	10.3	10.2	10.1
62.5°	5.5	7.1	7.8	8.2	8.7	9.5	10.0	10.7	11.5	11.3	11.9
60°	5.5	7.2	8.0	8.5	9.1	10.1	10.7	12.3	13.0	13.6	13.8
57.5°	5.5	7.4	8.3	8.7	9.8	10.8	12.5	14.0	15.6	16.4	18.4
55°	5.5	7.5	8.6	9.0	10.6	11.5	14.5	16.0	18.8	20.4	24.7
52.5°	5.5	7.6	9.0	9.3	11.4	12.4	16.7	19.5	22.3	28.0	31.6
50°	5.5	7.8	9.4	9.6	12.3	14.8	19.1	23.2	27.4	36.4	45.2
47.5°	5.5	7.9	9.8	10.0	13.2	17.2	21.7	27.1	35.8	45.5	61.4
45°	5.5	8.1	10.2	10.7	14.2	19.7	25.2	31.1	45.1	61.7	79.1
42.5°	5.5	8.2	10.6	11.5	15.3	22.2	28.8	38.0	55.1	79.2	107.6
40°	5.5	8.3	11.1	12.6	16.8	24.9	32.6	47.0	67.9	97.9	139.9
37.5°	5.5	8.5	11.6	13.9	18.9	27.6	36.7	56.4	86.0	122.0	174.5
35°	5.5	8.6	12.1	15.2	21.0	30.7	40.9	66.1	105.2	154.3	213.2
32.5°	5.5	8.7	12.7	16.6	23.1	34.1	46.4	76.1	125.1	187.2	254.3
30°	5.5	8.8	13.2	18.1	25.1	37.4	54.5	87.6	145.8	220.4	293.5
27.5°	5.5	9.0	13.8	19.5	27.8	40.8	62.6	102.9	167.0	253.8	330.6
25°	5.5	9.1	14.4	21.0	30.5	44.1	70.5	117.3	189.3	285.5	365.8
22.5°	5.5	9.2	14.9	22.5	33.0	47.5	78.2	130.9	209.8	307.0	404.0
20°	5.5	9.3	15.5	24.0	35.5	51.0	85.8	143.6	228.5	326.8	433.7
17.5°	5.5	9.4	16.1	25.6	37.9	54.5	92.6	155.3	245.5	345.1	461.8
15°	5.5	9.5	16.7	27.1	40.2	57.7	98.8	165.7	260.6	361.7	488.8
12.5°	5.5	9.6	17.3	28.5	42.4	60.9	104.4	174.5	274.9	376.6	514.3
10°	5.5	9.6	17.8	30.0	44.5	63.8	109.5	182.4	288.5	395.0	540.7
7.5°	5.5	9.7	18.4	31.4	46.5	66.6	114.1	189.2	300.7	412.9	570.7
5°	5.5	9.8	18.9	32.7	48.3	69.1	118.0	195.0	311.4	429.2	598.3
2.5°	5.5	9.8	19.3	34.0	50.1	71.5	121.4	199.7	320.4	443.8	623.0
0°	5.5	9.9	19.8	35.2	51.7	73.7	124.2	203.4	327.6	456.3	644.3
-2.5°	5.5	10.3	20.8	36.7	54.0	76.8	128.2	210.8	337.6	469.4	655.5
-5°	5.5	10.7	21.8	38.2	56.1	79.6	131.5	217.0	345.5	480.1	663.0
-7.5°	5.5	11.2	22.8	39.6	58.1	82.2	134.3	221.8	351.3	488.2	667.0
-10°	5.5	11.5	23.7	40.8	59.9	84.5	136.3	225.1	354.7	493.7	667.7
-12.5°	5.5	11.9	24.5	42.0	61.6	86.6	137.7	226.9	355.8	495.8	666.9
-15°	5.5	12.3	25.3	43.1	63.1	88.4	138.4	226.9	353.2	491.9	662.3
-17.5°	5.5	12.6	26.1	44.0	64.4	89.9	138.4	224.5	346.7	485.0	652.4
-20°	5.5	12.9	26.7	44.9	65.5	91.1	137.8	220.3	337.9	475.2	637.2



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.5	13.2	27.3	45.6	66.5	92.1	136.7	214.5	327.0	462.3	616.9
-25°	5.5	13.5	27.8	46.3	67.3	92.9	134.9	207.4	313.9	446.5	597.0
-27.5°	5.5	13.8	28.3	46.8	67.8	93.5	132.2	198.7	298.6	433.4	582.9
-30°	5.5	14.0	28.7	47.2	68.2	93.8	128.7	188.7	286.4	418.8	565.4
-32.5°	5.5	14.2	29.0	47.5	68.7	93.8	124.4	182.3	276.1	400.9	544.1
-35°	5.5	14.4	29.2	47.7	69.1	93.5	122.6	176.9	263.3	379.9	519.0
-37.5°	5.5	14.5	29.3	47.8	69.2	93.2	121.9	170.7	248.0	355.7	491.7
-40°	5.5	14.7	29.4	47.8	69.2	93.1	120.8	163.1	230.1	333.8	461.2
-42.5°	5.5	14.8	29.4	47.7	69.1	92.8	119.4	154.0	216.6	310.4	426.5
-45°	5.5	14.8	29.3	47.7	69.1	92.3	117.5	147.0	204.4	283.9	389.0
-47.5°	5.5	14.9	29.1	47.5	68.8	91.6	115.2	144.2	190.4	254.6	355.5
-50°	5.5	14.9	28.9	47.2	68.4	90.7	113.6	140.8	174.6	236.4	318.3
-52.5°	5.5	14.8	28.5	46.9	67.8	89.5	112.0	137.0	166.3	216.3	278.8
-55°	5.5	14.8	28.1	46.4	67.0	88.2	110.1	132.8	161.0	194.6	252.3
-57.5°	5.5	14.7	27.6	45.8	66.1	86.8	107.9	130.1	155.2	184.1	224.5
-60°	5.5	14.6	27.0	45.1	64.9	85.1	105.4	127.0	149.3	176.5	201.6
-62.5°	5.5	14.5	26.6	44.2	63.7	83.1	102.8	123.6	144.9	167.9	191.2
-65°	5.5	14.3	26.1	43.2	62.2	80.9	99.9	119.7	140.1	160.7	180.3
-67.5°	5.5	14.1	25.5	42.1	60.6	78.5	96.6	115.6	134.8	153.8	171.2
-70°	5.5	13.9	24.8	40.9	58.9	75.9	93.1	111.3	129.7	146.5	162.7
-72.5°	5.5	13.7	24.1	39.8	56.9	73.2	89.6	106.6	124.2	139.6	154.0
-75°	5.5	13.4	23.3	38.7	54.8	70.2	85.8	101.8	118.5	132.4	145.6
-77.5°	5.5	13.2	22.5	37.5	53.1	67.1	81.9	96.7	112.2	124.8	137.0
-80°	5.5	12.9	21.6	36.2	51.2	64.5	77.7	91.4	105.6	116.7	127.7
-82.5°	5.5	12.6	20.6	34.9	49.3	62.0	74.6	86.4	98.8	108.4	118.0
-85°	5.5	12.2	19.7	33.4	47.3	59.4	71.5	82.1	93.1	101.2	109.1
-87.5°	5.5	11.9	18.6	31.9	45.1	56.7	68.3	77.7	87.3	94.6	101.9
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5



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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°	99.5	104.4	108.8	113.2	118.2	123.1	128.6	134.1	139.6	145.1	149.5
87.5°	5.2	5.0	5.0	5.0	4.7	4.4	4.4	4.4	3.9	3.3	3.3
85°	5.5	5.5	5.5	5.5	5.1	4.7	4.6	4.4	4.1	3.9	3.9
82.5°	5.9	6.0	5.9	5.5	5.4	5.4	5.0	4.6	4.6	4.7	4.6
80°	6.4	6.6	6.2	5.9	5.8	5.6	5.4	5.3	5.4	5.5	5.1
77.5°	6.8	6.7	6.5	6.5	6.2	5.8	5.9	6.1	6.0	5.6	5.5
75°	7.1	6.8	6.7	6.7	6.5	6.5	6.6	6.6	6.4	6.2	6.1
72.5°	7.6	7.4	7.2	6.9	6.8	6.7	6.6	6.6	7.7	9.2	10.4
70°	8.2	8.0	7.8	7.5	7.3	7.4	8.7	11.2	13.9	16.0	18.9
67.5°	8.8	8.8	8.4	8.4	9.0	10.2	12.2	19.5	26.8	29.4	30.7
65°	9.8	9.7	9.6	10.3	10.9	16.5	23.8	32.3	41.4	43.1	41.4
62.5°	11.1	12.3	11.9	13.8	18.8	25.7	34.8	44.6	55.0	52.6	43.9
60°	15.2	15.9	17.6	21.9	27.6	35.3	45.5	49.7	54.0	54.8	42.6
57.5°	20.5	22.7	26.9	31.3	38.9	43.2	44.7	44.8	51.0	51.4	39.1
55°	28.4	32.3	38.6	43.9	48.7	44.0	44.0	48.1	50.2	46.4	34.7
52.5°	40.9	45.0	54.8	58.9	56.3	52.3	51.3	54.9	52.9	47.2	40.1
50°	54.8	66.6	73.1	76.3	70.1	69.3	63.7	67.0	69.0	65.9	68.9
47.5°	77.1	91.4	96.7	101.4	96.4	101.8	96.5	112.2	112.5	151.3	155.7
45°	104.2	123.5	129.7	140.9	149.4	154.4	185.0	187.1	269.3	301.6	370.9
42.5°	136.0	161.2	183.1	188.6	240.5	265.2	308.5	387.9	463.7	529.1	566.1
40°	176.8	203.6	249.4	300.6	359.4	417.4	482.0	575.1	655.3	690.5	709.2
37.5°	221.5	273.1	334.0	419.5	507.0	573.7	650.4	738.0	791.3	809.9	814.2
35°	269.5	343.8	445.8	535.6	629.4	718.9	790.5	874.2	892.1	906.9	989.4
32.5°	327.9	414.4	534.8	635.6	730.5	833.0	905.5	954.9	983.5	1037.9	1306.6
30°	386.4	488.0	607.1	714.2	824.9	922.3	991.4	1039.4	1072.0	1329.0	1887.0
27.5°	434.5	551.2	669.6	794.0	916.3	1014.0	1080.4	1124.1	1313.9	1739.8	2599.1
25°	478.2	600.9	732.1	882.2	1010.9	1101.3	1169.4	1212.6	1637.0	2506.9	3102.8
22.5°	519.2	649.0	802.8	975.3	1104.9	1181.8	1247.1	1482.1	2124.8	3284.1	3604.6
20°	559.2	706.7	879.5	1054.3	1193.2	1250.1	1318.6	1784.3	2752.4	3583.3	3934.4
17.5°	600.7	765.9	951.9	1114.9	1239.1	1310.9	1420.7	2077.4	3282.2	3845.2	4099.1
15°	642.2	821.8	1010.9	1168.4	1284.4	1370.5	1654.5	2497.3	3610.5	4133.0	4372.2
12.5°	682.8	870.7	1055.2	1214.2	1331.8	1427.1	1868.3	2931.4	3907.0	4415.6	4732.2
10°	722.0	913.0	1093.2	1258.5	1378.2	1481.9	2084.3	3355.8	4174.8	4599.9	4865.4
7.5°	756.1	947.5	1126.0	1300.9	1421.6	1535.7	2321.1	3637.4	4288.7	4717.0	4932.8
5°	785.3	974.8	1159.2	1348.1	1466.6	1585.3	2536.2	3823.0	4332.1	4789.3	5003.3
2.5°	809.9	996.7	1187.8	1392.5	1510.9	1627.3	2686.9	3940.7	4361.6	4817.0	5072.5
0°	830.1	1013.7	1211.5	1431.4	1551.3	1664.5	2799.1	3997.4	4371.2	4806.6	5137.5
-2.5°	843.1	1038.5	1255.4	1469.0	1584.4	1695.7	2794.4	4030.8	4383.2	4862.1	5388.8
-5°	851.9	1057.9	1292.3	1500.7	1614.4	1723.2	2746.7	4006.5	4409.7	4946.5	5553.0
-7.5°	856.2	1070.9	1320.7	1526.4	1642.7	1754.0	2687.6	3950.1	4545.2	5120.1	5656.1
-10°	857.6	1078.5	1326.4	1538.6	1668.9	1784.2	2590.2	3831.6	4652.2	5192.7	5686.0
-12.5°	863.4	1082.2	1323.4	1543.6	1691.2	1811.9	2470.0	3753.2	4796.0	5237.5	5675.1
-15°	862.8	1080.8	1314.5	1542.2	1718.5	1848.9	2310.0	3568.1	4883.7	5247.6	5645.8
-17.5°	855.6	1074.6	1301.0	1536.9	1744.4	1876.6	2084.4	3187.1	4633.2	5203.1	5611.3
-20°	841.2	1061.2	1282.0	1520.3	1758.8	1902.2	2057.5	2853.6	4117.8	5085.5	5546.2



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	820.6	1041.4	1258.7	1492.4	1752.0	1931.3	2076.2	2529.2	3608.5	4911.0	5440.8
-25°	796.5	1013.9	1231.9	1477.2	1741.9	1959.0	2080.1	2227.7	3165.6	4333.6	5259.0
-27.5°	769.9	979.8	1202.3	1445.2	1726.2	1954.0	2078.6	2217.8	2693.9	3623.3	4969.7
-30°	738.9	941.5	1161.4	1398.7	1670.5	1901.5	2073.6	2188.8	2334.3	3066.3	4214.4
-32.5°	704.7	898.3	1112.8	1346.1	1599.0	1842.7	2045.0	2165.6	2293.2	2543.9	3469.3
-35°	671.2	856.6	1059.2	1285.5	1525.9	1763.0	1969.9	2141.1	2248.3	2389.3	2811.7
-37.5°	640.1	809.7	1000.4	1219.2	1451.8	1663.9	1887.8	2073.3	2220.0	2322.2	2493.0
-40°	604.2	757.4	940.2	1145.0	1354.0	1555.9	1768.8	1977.5	2157.7	2292.3	2394.1
-42.5°	563.7	710.2	875.5	1057.5	1250.6	1442.8	1644.0	1850.8	2048.6	2226.0	2352.3
-45°	519.9	657.5	806.3	971.4	1142.8	1326.0	1517.6	1713.3	1909.6	2105.3	2261.0
-47.5°	469.1	599.4	740.6	879.5	1037.5	1205.8	1384.0	1567.9	1749.5	1938.3	2117.5
-50°	416.3	536.8	665.7	793.9	931.0	1083.1	1246.3	1418.1	1590.3	1764.6	1937.4
-52.5°	368.3	468.5	587.2	708.1	829.2	959.3	1107.0	1263.7	1426.1	1590.6	1741.7
-55°	317.2	407.3	504.9	618.0	731.7	844.8	964.9	1106.7	1253.9	1406.5	1542.0
-57.5°	277.8	345.6	429.8	523.4	629.2	736.3	841.5	948.1	1079.6	1215.2	1329.1
-60°	245.2	294.1	358.6	437.7	521.9	620.8	719.8	818.8	920.5	1017.6	1122.8
-62.5°	215.3	255.2	300.6	355.8	428.9	505.3	593.2	684.4	777.5	861.2	938.5
-65°	202.4	221.5	255.6	296.9	338.8	404.1	474.4	546.2	627.0	701.2	770.9
-67.5°	188.8	206.5	224.2	246.0	283.6	322.2	361.0	424.4	487.7	545.1	602.0
-70°	177.9	191.5	207.1	223.0	239.3	261.5	296.1	332.0	367.8	407.4	455.5
-72.5°	167.2	179.4	191.9	204.3	218.8	234.0	250.0	266.2	291.0	321.4	348.9
-75°	156.9	167.0	178.3	189.7	201.1	212.7	225.6	240.6	255.5	270.2	284.1
-77.5°	146.9	156.2	165.6	175.2	185.1	195.5	206.8	218.6	230.8	243.0	253.8
-80°	136.5	145.3	153.3	161.5	170.4	179.3	188.8	198.5	209.2	220.3	230.1
-82.5°	125.3	132.5	139.9	147.1	155.3	163.5	171.6	179.7	188.5	197.6	205.6
-85°	114.5	119.6	126.0	132.3	139.6	146.9	153.8	160.6	168.3	175.9	182.2
-87.5°	107.0	112.1	117.0	122.0	127.8	133.6	139.3	144.9	151.3	157.7	162.5
-90°	5.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.9	3.3	3.3



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	153.9	157.2	160.5	162.2	163.8	167.1	170.4	175.4	180.3	185.8	191.3
87.5°	3.3	3.3	3.3	3.2	3.2	2.7	2.2	2.2	2.2	2.2	2.2
85°	4.0	4.1	4.1	3.7	3.3	3.2	3.2	3.2	3.2	2.7	2.2
82.5°	4.4	4.4	4.4	4.2	4.1	3.8	3.3	3.3	3.3	3.3	3.3
80°	4.8	4.6	4.4	4.4	4.4	4.3	4.1	3.8	3.3	3.8	4.3
77.5°	5.5	5.2	4.8	4.7	4.5	4.1	3.7	3.4	3.3	3.4	3.4
75°	5.7	5.8	6.6	6.7	6.5	5.9	5.0	4.9	5.0	4.8	4.4
72.5°	11.2	11.8	12.1	13.2	13.7	14.4	15.6	17.7	20.2	22.5	24.8
70°	22.5	25.6	26.3	26.4	26.3	27.1	28.3	29.6	31.3	32.8	34.1
67.5°	34.6	37.4	37.7	38.4	37.3	35.8	34.3	34.3	36.3	38.6	41.2
65°	42.3	39.5	37.4	36.9	36.2	34.4	31.5	29.4	28.9	28.5	28.6
62.5°	38.0	32.5	30.5	30.1	28.4	26.3	22.4	19.2	17.7	16.7	16.8
60°	32.9	26.5	22.5	20.8	18.1	15.4	13.0	10.6	9.9	9.6	9.7
57.5°	27.1	20.2	15.5	14.8	12.8	10.1	8.3	6.6	6.3	6.3	6.7
55°	24.8	21.2	17.7	16.6	14.2	13.0	11.2	8.9	8.3	8.9	9.8
52.5°	32.2	30.2	28.6	28.7	31.6	29.3	21.9	30.6	35.6	35.7	34.1
50°	70.6	63.5	90.6	87.2	109.0	123.5	112.1	125.9	145.6	159.5	169.1
47.5°	201.5	208.9	241.3	269.4	292.1	317.5	343.2	358.8	362.7	388.4	406.1
45°	405.8	430.1	466.2	484.5	520.1	562.3	591.9	605.3	682.9	779.6	842.0
42.5°	588.9	607.7	636.0	700.4	765.7	910.3	1076.2	1081.9	1231.7	1364.4	1500.1
40°	717.0	752.3	853.3	1006.1	1358.7	1633.9	1829.7	2021.6	2053.6	1991.3	2025.3
37.5°	882.8	1009.1	1265.0	1677.1	1982.3	2258.6	2369.9	2384.3	2423.1	2447.4	2408.8
35°	1195.3	1616.2	1828.5	2178.8	2400.8	2454.7	2488.4	2521.5	2553.2	2574.9	2598.6
32.5°	1879.7	2401.1	2429.2	2519.3	2560.7	2608.5	2644.2	2664.9	2679.4	2698.4	2762.8
30°	2615.5	2736.9	2746.9	2739.8	2754.0	2786.2	2809.5	2847.6	2885.4	2929.0	3071.8
27.5°	2959.0	3052.0	3023.0	2973.4	2948.8	2974.4	3037.9	3097.0	3207.1	3322.8	3527.7
25°	3339.3	3400.9	3365.5	3277.4	3222.2	3258.6	3354.0	3466.7	3677.1	3862.6	4239.5
22.5°	3746.5	3861.0	3824.0	3797.8	3681.5	3698.9	3774.2	4028.5	4554.7	5387.9	7117.7
20°	4062.3	4202.3	4220.1	4220.7	4196.2	4203.4	4378.2	5198.5	6737.0	11571.8	15857.7
17.5°	4296.5	4378.6	4477.2	4517.7	4565.6	4705.5	5638.3	8475.9	15120.1	24012.4	30821.7
15°	4599.9	4705.0	4811.9	4879.5	4987.8	5757.2	8142.4	16857.4	28939.7	44032.1	63323.1
12.5°	4842.9	4972.5	5057.3	5110.9	5360.6	7384.5	15683.1	28229.2	47080.4	70500.3	105242.7
10°	4977.4	5078.4	5194.0	5379.7	6398.2	10711.5	22116.5	39669.3	68647.7	110832.7	157106.4
7.5°	5044.3	5175.0	5368.4	5650.5	7572.9	15636.9	30768.2	55993.3	95573.6	148102.3	212577.6
5°	5122.2	5363.8	5594.1	5917.1	8485.1	19193.1	37645.4	69915.8	119050.1	183308.8	262936.1
2.5°	5248.1	5611.4	5759.9	6070.1	9034.6	21482.5	41746.5	80805.2	136580.6	212038.3	301439.1
0°	5446.5	5748.8	5837.8	6150.1	9587.9	22614.8	44155.4	83791.2	144389.3	223226.6	316603.5
-2.5°	5670.7	5859.5	5958.2	6306.2	9865.7	23769.9	46050.7	85797.5	142529.6	219499.6	310906.4
-5°	5816.9	5966.8	6062.5	6402.6	9835.3	22614.8	43933.0	79898.6	131656.9	200500.1	282224.3
-7.5°	5916.5	6072.6	6172.7	6484.4	9253.9	19543.8	38803.8	68871.5	111885.6	168346.1	238935.1
-10°	6013.8	6184.2	6315.3	6561.6	8190.3	14919.6	30456.7	51958.6	87501.5	132424.5	185201.8
-12.5°	6101.5	6312.1	6480.8	6594.2	7191.4	11348.1	22382.0	39742.6	62982.8	96517.1	135138.0
-15°	6145.8	6397.8	6586.7	6711.7	7058.0	8973.0	14493.5	26298.3	43972.0	64772.6	89903.4
-17.5°	6069.4	6445.1	6626.9	6764.5	6878.4	7370.6	10223.5	16142.9	27181.6	40807.7	53083.9
-20°	5947.7	6450.4	6656.2	6841.5	6970.9	7105.0	7468.4	10280.4	14771.1	23130.7	31312.7



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5844.9	6312.3	6742.0	6942.1	7091.1	7100.9	7112.1	7450.6	9204.0	12020.5	16348.7
-25°	5773.5	6215.8	6715.8	7025.9	7129.0	7132.7	7076.5	7013.6	7212.4	7412.2	8993.7
-27.5°	5653.0	6132.6	6602.6	6980.7	7133.6	7128.4	7085.7	7043.7	6974.8	6929.9	7100.5
-30°	5505.4	5987.4	6424.9	6805.2	7031.8	7101.5	7072.3	7041.1	7019.8	7004.8	6974.3
-32.5°	4719.0	5809.0	6177.6	6522.7	6846.0	6987.7	7050.7	7036.1	7016.9	7008.7	7014.1
-35°	3854.6	4979.9	5937.0	6182.9	6463.6	6745.4	6944.3	6989.2	7009.2	7005.7	7014.4
-37.5°	2955.6	3969.4	4909.7	5695.7	6033.5	6326.5	6615.6	6807.0	6922.0	6941.8	6968.9
-40°	2547.3	2833.9	3724.7	4514.7	5171.9	5777.0	6083.0	6414.0	6672.1	6776.1	6830.7
-42.5°	2439.3	2553.2	2670.2	3249.5	3930.0	4506.8	5078.3	5646.2	6117.7	6384.4	6557.9
-45°	2392.3	2455.8	2523.2	2616.5	2700.1	3187.3	3711.9	4265.4	4885.0	5347.8	5778.9
-47.5°	2255.3	2383.2	2447.7	2487.2	2516.7	2581.0	2638.5	2794.4	3310.1	3715.6	4165.4
-50°	2074.1	2204.2	2309.6	2403.3	2435.4	2450.2	2467.5	2519.3	2601.7	2661.6	2752.2
-52.5°	1864.5	1986.4	2103.9	2204.3	2276.0	2337.7	2396.6	2437.6	2470.9	2505.5	2538.3
-55°	1664.0	1767.8	1868.6	1962.8	2048.3	2119.5	2189.6	2256.3	2318.9	2377.8	2432.7
-57.5°	1444.1	1547.8	1640.4	1725.0	1797.9	1857.3	1926.5	2000.1	2068.9	2130.0	2189.6
-60°	1222.1	1316.6	1405.2	1485.2	1551.9	1604.3	1671.6	1737.5	1800.5	1857.4	1907.3
-62.5°	1013.5	1094.1	1170.4	1241.1	1304.2	1360.5	1417.0	1473.4	1533.0	1586.2	1633.2
-65°	837.2	901.6	955.7	1006.1	1048.5	1099.5	1153.7	1204.4	1256.8	1306.1	1351.0
-67.5°	660.1	714.6	760.1	803.6	839.1	874.9	915.3	953.7	990.7	1029.1	1066.5
-70°	498.1	536.5	565.2	595.1	630.0	662.7	695.2	727.9	758.7	792.4	827.1
-72.5°	371.7	390.4	409.3	433.5	454.3	478.0	501.4	526.5	551.9	576.4	599.3
-75°	297.5	309.4	323.7	335.5	344.5	356.0	369.0	384.8	400.7	416.6	431.5
-77.5°	264.7	272.9	279.5	284.5	288.9	294.8	300.7	311.8	323.7	336.9	350.4
-80°	239.3	244.6	249.1	252.8	256.1	261.1	266.0	275.5	285.7	295.6	305.2
-82.5°	213.5	217.9	221.6	224.9	227.9	232.5	237.2	244.9	252.7	262.3	271.9
-85°	188.4	192.3	195.9	198.9	201.7	205.3	208.9	216.1	223.3	231.0	238.7
-87.5°	167.4	170.6	173.8	176.3	178.7	181.8	184.9	190.5	196.2	202.4	208.6
-90°	3.3	3.3	3.3	2.8	2.2	2.2	2.2	2.2	2.2	1.7	1.1



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	191.9	192.4	192.4	192.4	192.4	192.4	191.9	191.3	185.8	180.3	175.4
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.2	3.2
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	3.8	3.3	3.8
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.3	3.4
75°	3.9	3.3	3.3	3.3	3.3	3.3	3.9	4.4	4.8	5.0	4.9
72.5°	26.9	28.9	30.0	30.8	30.0	28.9	26.9	24.8	22.5	20.2	17.7
70°	34.7	35.0	35.2	35.2	35.2	35.0	34.7	34.1	32.8	31.3	29.6
67.5°	42.7	43.6	43.9	44.0	43.9	43.6	42.7	41.2	38.6	36.3	34.3
65°	27.2	25.2	23.4	22.0	23.4	25.2	27.2	28.6	28.5	28.9	29.4
62.5°	16.5	15.8	15.5	15.4	15.5	15.8	16.5	16.8	16.7	17.7	19.2
60°	9.8	10.0	9.5	8.8	9.5	10.0	9.8	9.7	9.6	9.9	10.6
57.5°	7.1	7.6	8.2	8.8	8.2	7.6	7.1	6.7	6.3	6.3	6.6
55°	10.6	11.6	12.5	13.2	12.5	11.6	10.6	9.8	8.9	8.3	8.9
52.5°	30.7	27.5	26.6	27.5	26.6	27.5	30.7	34.1	35.7	35.6	30.6
50°	174.0	177.6	181.9	186.9	181.9	177.6	174.0	169.1	159.5	145.6	125.9
47.5°	411.1	403.3	396.0	393.6	396.0	403.3	411.1	406.1	388.4	362.7	358.8
45°	779.4	722.0	692.8	710.2	692.8	722.0	779.4	842.0	779.6	682.9	605.3
42.5°	1573.0	1657.9	1724.3	1755.8	1724.3	1657.9	1573.0	1500.1	1364.4	1231.7	1081.9
40°	1972.0	1940.1	1957.2	1983.3	1957.2	1940.1	1972.0	2025.3	1991.3	2053.6	2021.6
37.5°	2427.7	2438.2	2361.6	2236.2	2361.6	2438.2	2427.7	2408.8	2447.4	2423.1	2384.3
35°	2648.7	2785.3	3041.1	3102.5	3041.1	2785.3	2648.7	2598.6	2574.9	2553.2	2521.5
32.5°	2925.4	3067.2	3110.7	3127.8	3110.7	3067.2	2925.4	2762.8	2698.4	2679.4	2664.9
30°	3256.0	3320.0	3303.9	3327.9	3303.9	3320.0	3256.0	3071.8	2929.0	2885.4	2847.6
27.5°	3618.2	3655.6	3643.4	3675.3	3643.4	3655.6	3618.2	3527.7	3322.8	3207.1	3097.0
25°	4553.2	4848.6	4833.2	4902.2	4833.2	4848.6	4553.2	4239.5	3862.6	3677.1	3466.7
22.5°	9223.7	10268.0	10893.4	11498.7	10893.4	10268.0	9223.7	7117.7	5387.9	4554.7	4028.5
20°	20609.0	23618.7	24273.8	24035.2	24273.8	23618.7	20609.0	15857.7	11571.8	6737.0	5198.5
17.5°	44237.9	56246.5	62694.4	63411.5	62694.4	56246.5	44237.9	30821.7	24012.4	15120.1	8475.9
15°	83252.9	104241.2	116157.9	117409.9	116157.9	104241.2	83252.9	63323.1	44032.1	28939.7	16857.4
12.5°	136098.5	169522.4	194059.4	196796.9	194059.4	169522.4	136098.5	105242.7	70500.3	47080.4	28229.2
10°	208484.6	253673.5	289407.3	298112.6	289407.3	253673.5	208484.6	157106.4	110832.7	68647.7	39669.3
7.5°	280733.2	332303.0	374359.2	384254.4	374359.2	332303.0	280733.2	212577.6	148102.3	95573.6	55993.3
5°	337212.4	403194.8	436756.4	447845.0	436756.4	403194.8	337212.4	262936.1	183308.8	119050.1	69915.8
2.5°	380263.4	442566.7	481967.0	498132.4	481967.0	442566.7	380263.4	301439.1	212038.3	136580.6	80805.2
0°	396882.0	457316.4	507490.5	538691.1	507490.5	457316.4	396882.0	316603.5	223226.6	144389.3	83791.2
-2.5°	390367.8	448555.6	491197.5	511436.9	491197.5	448555.6	390367.8	310906.4	219499.6	142529.6	85797.5
-5°	357436.2	416158.2	449127.9	459571.3	449127.9	416158.2	357436.2	282224.3	200500.1	131656.9	79898.6
-7.5°	302250.0	353938.5	393031.7	400039.0	393031.7	353938.5	302250.0	238935.1	168346.1	111885.6	68871.5
-10°	239551.5	284296.9	314119.8	319761.0	314119.8	284296.9	239551.5	185201.8	132424.5	87501.5	51958.6
-12.5°	169806.3	209110.4	232689.3	237040.1	232689.3	209110.4	169806.3	135138.0	96517.1	62982.8	39742.6
-15°	115391.8	139873.6	154164.6	155607.7	154164.6	139873.6	115391.8	89903.4	64772.6	43972.0	26298.3
-17.5°	72200.7	86763.2	95670.1	95752.7	95670.1	86763.2	72200.7	53083.9	40807.7	27181.6	16142.9
-20°	41799.9	48749.1	53732.3	53711.5	53732.3	48749.1	41799.9	31312.7	23130.7	14771.1	10280.4



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	21778.3	25908.5	28913.2	28775.8	28913.2	25908.5	21778.3	16348.7	12020.5	9204.0	7450.6
-25°	10694.2	12275.4	13327.8	13245.6	13327.8	12275.4	10694.2	8993.7	7412.2	7212.4	7013.6
-27.5°	7247.4	7421.3	7541.5	7554.0	7541.5	7421.3	7247.4	7100.5	6929.9	6974.8	7043.7
-30°	6962.5	7002.2	7044.1	7054.9	7044.1	7002.2	6962.5	6974.3	7004.8	7019.8	7041.1
-32.5°	7031.3	7062.3	7108.3	7137.3	7108.3	7062.3	7031.3	7014.1	7008.7	7016.9	7036.1
-35°	7036.3	7072.3	7125.5	7149.4	7125.5	7072.3	7036.3	7014.4	7005.7	7009.2	6989.2
-37.5°	7003.5	7047.6	7093.3	7114.3	7093.3	7047.6	7003.5	6968.9	6941.8	6922.0	6807.0
-40°	6879.3	6924.3	6957.6	6960.3	6957.6	6924.3	6879.3	6830.7	6776.1	6672.1	6414.0
-42.5°	6673.5	6729.3	6754.9	6750.3	6754.9	6729.3	6673.5	6557.9	6384.4	6117.7	5646.2
-45°	6187.8	6385.4	6482.5	6506.3	6482.5	6385.4	6187.8	5778.9	5347.8	4885.0	4265.4
-47.5°	4686.8	4976.6	5162.5	5236.5	5162.5	4976.6	4686.8	4165.4	3715.6	3310.1	2794.4
-50°	2870.6	2897.5	2915.3	2924.4	2915.3	2897.5	2870.6	2752.2	2661.6	2601.7	2519.3
-52.5°	2565.6	2573.3	2577.5	2578.1	2577.5	2573.3	2565.6	2538.3	2505.5	2470.9	2437.6
-55°	2472.3	2487.8	2497.5	2500.0	2497.5	2487.8	2472.3	2432.7	2377.8	2318.9	2256.3
-57.5°	2228.9	2237.8	2247.7	2253.8	2247.7	2237.8	2228.9	2189.6	2130.0	2068.9	2000.1
-60°	1937.3	1945.4	1947.0	1941.6	1947.0	1945.4	1937.3	1907.3	1857.4	1800.5	1737.5
-62.5°	1658.9	1666.4	1673.9	1676.6	1673.9	1666.4	1658.9	1633.2	1586.2	1533.0	1473.4
-65°	1372.0	1375.8	1377.6	1374.3	1377.6	1375.8	1372.0	1351.0	1306.1	1256.8	1204.4
-67.5°	1084.2	1091.6	1102.2	1109.3	1102.2	1091.6	1084.2	1066.5	1029.1	990.7	953.7
-70°	835.1	831.8	838.9	844.3	838.9	831.8	835.1	827.1	792.4	758.7	727.9
-72.5°	602.2	598.6	596.1	591.5	596.1	598.6	602.2	599.3	576.4	551.9	526.5
-75°	430.7	426.3	425.6	424.4	425.6	426.3	430.7	431.5	416.6	400.7	384.8
-77.5°	350.6	348.9	346.7	344.1	346.7	348.9	350.6	350.4	336.9	323.7	311.8
-80°	306.1	306.2	304.9	303.4	304.9	306.2	306.1	305.2	295.6	285.7	275.5
-82.5°	272.4	272.3	271.5	270.5	271.5	272.3	272.4	271.9	262.3	252.7	244.9
-85°	239.2	239.5	238.5	237.5	238.5	239.5	239.2	238.7	231.0	223.3	216.1
-87.5°	209.3	209.9	209.4	208.9	209.4	209.9	209.3	208.6	202.4	196.2	190.5
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	170.4	167.1	163.8	162.2	160.5	157.2	153.9	149.5	145.1	139.6	134.1
87.5°	2.2	2.7	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.9	4.4
85°	3.2	3.2	3.3	3.7	4.1	4.1	4.0	3.9	3.9	4.1	4.4
82.5°	3.3	3.8	4.1	4.2	4.4	4.4	4.4	4.6	4.7	4.6	4.6
80°	4.1	4.3	4.4	4.4	4.4	4.6	4.8	5.1	5.5	5.4	5.3
77.5°	3.7	4.1	4.5	4.7	4.8	5.2	5.5	5.5	5.6	6.0	6.1
75°	5.0	5.9	6.5	6.7	6.6	5.8	5.7	6.1	6.2	6.4	6.6
72.5°	15.6	14.4	13.7	13.2	12.1	11.8	11.2	10.4	9.2	7.7	6.6
70°	28.3	27.1	26.3	26.4	26.3	25.6	22.5	18.9	16.0	13.9	11.2
67.5°	34.3	35.8	37.3	38.4	37.7	37.4	34.6	30.7	29.4	26.8	19.5
65°	31.5	34.4	36.2	36.9	37.4	39.5	42.3	41.4	43.1	41.4	32.3
62.5°	22.4	26.3	28.4	30.1	30.5	32.5	38.0	43.9	52.6	55.0	44.6
60°	13.0	15.4	18.1	20.8	22.5	26.5	32.9	42.6	54.8	54.0	49.7
57.5°	8.3	10.1	12.8	14.8	15.5	20.2	27.1	39.1	51.4	51.0	44.8
55°	11.2	13.0	14.2	16.6	17.7	21.2	24.8	34.7	46.4	50.2	48.1
52.5°	21.9	29.3	31.6	28.7	28.6	30.2	32.2	40.1	47.2	52.9	54.9
50°	112.1	123.5	109.0	87.2	90.6	63.5	70.6	68.9	65.9	69.0	67.0
47.5°	343.2	317.5	292.1	269.4	241.3	208.9	201.5	155.7	151.3	112.5	112.2
45°	591.9	562.3	520.1	484.5	466.2	430.1	405.8	370.9	301.6	269.3	187.1
42.5°	1076.2	910.3	765.7	700.4	636.0	607.7	588.9	566.1	529.1	463.7	387.9
40°	1829.7	1633.9	1358.7	1006.1	853.3	752.3	717.0	709.2	690.5	655.3	575.1
37.5°	2369.9	2258.6	1982.3	1677.1	1265.0	1009.1	882.8	814.2	809.9	791.3	738.0
35°	2488.4	2454.7	2400.8	2178.8	1828.5	1616.2	1195.3	989.4	906.9	892.1	874.2
32.5°	2644.2	2608.5	2560.7	2519.3	2429.2	2401.1	1879.7	1306.6	1037.9	983.5	954.9
30°	2809.5	2786.2	2754.0	2739.8	2746.9	2736.9	2615.5	1887.0	1329.0	1072.0	1039.4
27.5°	3037.9	2974.4	2948.8	2973.4	3023.0	3052.0	2959.0	2599.1	1739.8	1313.9	1124.1
25°	3354.0	3258.6	3222.2	3277.4	3365.5	3400.9	3339.3	3102.8	2506.9	1637.0	1212.6
22.5°	3774.2	3698.9	3681.5	3797.8	3824.0	3861.0	3746.5	3604.6	3284.1	2124.8	1482.1
20°	4378.2	4203.4	4196.2	4220.7	4220.1	4202.3	4062.3	3934.4	3583.3	2752.4	1784.3
17.5°	5638.3	4705.5	4565.6	4517.7	4477.2	4378.6	4296.5	4099.1	3845.2	3282.2	2077.4
15°	8142.4	5757.2	4987.8	4879.5	4811.9	4705.0	4599.9	4372.2	4133.0	3610.5	2497.3
12.5°	15683.1	7384.5	5360.6	5110.9	5057.3	4972.5	4842.9	4732.2	4415.6	3907.0	2931.4
10°	22116.5	10711.5	6398.2	5379.7	5194.0	5078.4	4977.4	4865.4	4599.9	4174.8	3355.8
7.5°	30768.2	15636.9	7572.9	5650.5	5368.4	5175.0	5044.3	4932.8	4717.0	4288.7	3637.4
5°	37645.4	19193.1	8485.1	5917.1	5594.1	5363.8	5122.2	5003.3	4789.3	4332.1	3823.0
2.5°	41746.5	21482.5	9034.6	6070.1	5759.9	5611.4	5248.1	5072.5	4817.0	4361.6	3940.7
0°	44155.4	22614.8	9587.9	6150.1	5837.8	5748.8	5446.5	5137.5	4806.6	4371.2	3997.4
-2.5°	46050.7	23769.9	9865.7	6306.2	5958.2	5859.5	5670.7	5388.8	4862.1	4383.2	4030.8
-5°	43933.0	22614.8	9835.3	6402.6	6062.5	5966.8	5816.9	5553.0	4946.5	4409.7	4006.5
-7.5°	38803.8	19543.8	9253.9	6484.4	6172.7	6072.6	5916.5	5656.1	5120.1	4545.2	3950.1
-10°	30456.7	14919.6	8190.3	6561.6	6315.3	6184.2	6013.8	5686.0	5192.7	4652.2	3831.6
-12.5°	22382.0	11348.1	7191.4	6594.2	6480.8	6312.1	6101.5	5675.1	5237.5	4796.0	3753.2
-15°	14493.5	8973.0	7058.0	6711.7	6586.7	6397.8	6145.8	5645.8	5247.6	4883.7	3568.1
-17.5°	10223.5	7370.6	6878.4	6764.5	6626.9	6445.1	6069.4	5611.3	5203.1	4633.2	3187.1
-20°	7468.4	7105.0	6970.9	6841.5	6656.2	6450.4	5947.7	5546.2	5085.5	4117.8	2853.6



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7112.1	7100.9	7091.1	6942.1	6742.0	6312.3	5844.9	5440.8	4911.0	3608.5	2529.2
-25°	7076.5	7132.7	7129.0	7025.9	6715.8	6215.8	5773.5	5259.0	4333.6	3165.6	2227.7
-27.5°	7085.7	7128.4	7133.6	6980.7	6602.6	6132.6	5653.0	4969.7	3623.3	2693.9	2217.8
-30°	7072.3	7101.5	7031.8	6805.2	6424.9	5987.4	5505.4	4214.4	3066.3	2334.3	2188.8
-32.5°	7050.7	6987.7	6846.0	6522.7	6177.6	5809.0	4719.0	3469.3	2543.9	2293.2	2165.6
-35°	6944.3	6745.4	6463.6	6182.9	5937.0	4979.9	3854.6	2811.7	2389.3	2248.3	2141.1
-37.5°	6615.6	6326.5	6033.5	5695.7	4909.7	3969.4	2955.6	2493.0	2322.2	2220.0	2073.3
-40°	6083.0	5777.0	5171.9	4514.7	3724.7	2833.9	2547.3	2394.1	2292.3	2157.7	1977.5
-42.5°	5078.3	4506.8	3930.0	3249.5	2670.2	2553.2	2439.3	2352.3	2226.0	2048.6	1850.8
-45°	3711.9	3187.3	2700.1	2616.5	2523.2	2455.8	2392.3	2261.0	2105.3	1909.6	1713.3
-47.5°	2638.5	2581.0	2516.7	2487.2	2447.7	2383.2	2255.3	2117.5	1938.3	1749.5	1567.9
-50°	2467.5	2450.2	2435.4	2403.3	2309.6	2204.2	2074.1	1937.4	1764.6	1590.3	1418.1
-52.5°	2396.6	2337.7	2276.0	2204.3	2103.9	1986.4	1864.5	1741.7	1590.6	1426.1	1263.7
-55°	2189.6	2119.5	2048.3	1962.8	1868.6	1767.8	1664.0	1542.0	1406.5	1253.9	1106.7
-57.5°	1926.5	1857.3	1797.9	1725.0	1640.4	1547.8	1444.1	1329.1	1215.2	1079.6	948.1
-60°	1671.6	1604.3	1551.9	1485.2	1405.2	1316.6	1222.1	1122.8	1017.6	920.5	818.8
-62.5°	1417.0	1360.5	1304.2	1241.1	1170.4	1094.1	1013.5	938.5	861.2	777.5	684.4
-65°	1153.7	1099.5	1048.5	1006.1	955.7	901.6	837.2	770.9	701.2	627.0	546.2
-67.5°	915.3	874.9	839.1	803.6	760.1	714.6	660.1	602.0	545.1	487.7	424.4
-70°	695.2	662.7	630.0	595.1	565.2	536.5	498.1	455.5	407.4	367.8	332.0
-72.5°	501.4	478.0	454.3	433.5	409.3	390.4	371.7	348.9	321.4	291.0	266.2
-75°	369.0	356.0	344.5	335.5	323.7	309.4	297.5	284.1	270.2	255.5	240.6
-77.5°	300.7	294.8	288.9	284.5	279.5	272.9	264.7	253.8	243.0	230.8	218.6
-80°	266.0	261.1	256.1	252.8	249.1	244.6	239.3	230.1	220.3	209.2	198.5
-82.5°	237.2	232.5	227.9	224.9	221.6	217.9	213.5	205.6	197.6	188.5	179.7
-85°	208.9	205.3	201.7	198.9	195.9	192.3	188.4	182.2	175.9	168.3	160.6
-87.5°	184.9	181.8	178.7	176.3	173.8	170.6	167.4	162.5	157.7	151.3	144.9
-90°	2.2	2.2	2.2	2.8	3.3	3.3	3.3	3.3	3.3	3.9	4.4



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	128.6	123.1	118.2	113.2	108.8	104.4	99.5	94.5	88.0	81.4	73.2
87.5°	4.4	4.4	4.7	5.0	5.0	5.0	5.2	5.5	5.5	5.5	5.7
85°	4.6	4.7	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8
82.5°	5.0	5.4	5.4	5.5	5.9	6.0	5.9	5.8	5.7	5.6	6.0
80°	5.4	5.6	5.8	5.9	6.2	6.6	6.4	6.3	6.4	6.3	6.4
77.5°	5.9	5.8	6.2	6.5	6.5	6.7	6.8	6.8	7.1	7.1	6.9
75°	6.6	6.5	6.5	6.7	6.7	6.8	7.1	7.3	7.6	7.7	7.4
72.5°	6.6	6.7	6.8	6.9	7.2	7.4	7.6	7.8	8.1	8.2	7.8
70°	8.7	7.4	7.3	7.5	7.8	8.0	8.2	8.4	8.5	8.6	8.4
67.5°	12.2	10.2	9.0	8.4	8.4	8.8	8.8	9.1	9.3	9.1	8.9
65°	23.8	16.5	10.9	10.3	9.6	9.7	9.8	10.1	10.2	10.3	9.5
62.5°	34.8	25.7	18.8	13.8	11.9	12.3	11.1	11.9	11.3	11.5	10.7
60°	45.5	35.3	27.6	21.9	17.6	15.9	15.2	13.8	13.6	13.0	12.3
57.5°	44.7	43.2	38.9	31.3	26.9	22.7	20.5	18.4	16.4	15.6	14.0
55°	44.0	44.0	48.7	43.9	38.6	32.3	28.4	24.7	20.4	18.8	16.0
52.5°	51.3	52.3	56.3	58.9	54.8	45.0	40.9	31.6	28.0	22.3	19.5
50°	63.7	69.3	70.1	76.3	73.1	66.6	54.8	45.2	36.4	27.4	23.2
47.5°	96.5	101.8	96.4	101.4	96.7	91.4	77.1	61.4	45.5	35.8	27.1
45°	185.0	154.4	149.4	140.9	129.7	123.5	104.2	79.1	61.7	45.1	31.1
42.5°	308.5	265.2	240.5	188.6	183.1	161.2	136.0	107.6	79.2	55.1	38.0
40°	482.0	417.4	359.4	300.6	249.4	203.6	176.8	139.9	97.9	67.9	47.0
37.5°	650.4	573.7	507.0	419.5	334.0	273.1	221.5	174.5	122.0	86.0	56.4
35°	790.5	718.9	629.4	535.6	445.8	343.8	269.5	213.2	154.3	105.2	66.1
32.5°	905.5	833.0	730.5	635.6	534.8	414.4	327.9	254.3	187.2	125.1	76.1
30°	991.4	922.3	824.9	714.2	607.1	488.0	386.4	293.5	220.4	145.8	87.6
27.5°	1080.4	1014.0	916.3	794.0	669.6	551.2	434.5	330.6	253.8	167.0	102.9
25°	1169.4	1101.3	1010.9	882.2	732.1	600.9	478.2	365.8	285.5	189.3	117.3
22.5°	1247.1	1181.8	1104.9	975.3	802.8	649.0	519.2	404.0	307.0	209.8	130.9
20°	1318.6	1250.1	1193.2	1054.3	879.5	706.7	559.2	433.7	326.8	228.5	143.6
17.5°	1420.7	1310.9	1239.1	1114.9	951.9	765.9	600.7	461.8	345.1	245.5	155.3
15°	1654.5	1370.5	1284.4	1168.4	1010.9	821.8	642.2	488.8	361.7	260.6	165.7
12.5°	1868.3	1427.1	1331.8	1214.2	1055.2	870.7	682.8	514.3	376.6	274.9	174.5
10°	2084.3	1481.9	1378.2	1258.5	1093.2	913.0	722.0	540.7	395.0	288.5	182.4
7.5°	2321.1	1535.7	1421.6	1300.9	1126.0	947.5	756.1	570.7	412.9	300.7	189.2
5°	2536.2	1585.3	1466.6	1348.1	1159.2	974.8	785.3	598.3	429.2	311.4	195.0
2.5°	2686.9	1627.3	1510.9	1392.5	1187.8	996.7	809.9	623.0	443.8	320.4	199.7
0°	2799.1	1664.5	1551.3	1431.4	1211.5	1013.7	830.1	644.3	456.3	327.6	203.4
-2.5°	2794.4	1695.7	1584.4	1469.0	1255.4	1038.5	843.1	655.5	469.4	337.6	210.8
-5°	2746.7	1723.2	1614.4	1500.7	1292.3	1057.9	851.9	663.0	480.1	345.5	217.0
-7.5°	2687.6	1754.0	1642.7	1526.4	1320.7	1070.9	856.2	667.0	488.2	351.3	221.8
-10°	2590.2	1784.2	1668.9	1538.6	1326.4	1078.5	857.6	667.7	493.7	354.7	225.1
-12.5°	2470.0	1811.9	1691.2	1543.6	1323.4	1082.2	863.4	666.9	495.8	355.8	226.9
-15°	2310.0	1848.9	1718.5	1542.2	1314.5	1080.8	862.8	662.3	491.9	353.2	226.9
-17.5°	2084.4	1876.6	1744.4	1536.9	1301.0	1074.6	855.6	652.4	485.0	346.7	224.5
-20°	2057.5	1902.2	1758.8	1520.3	1282.0	1061.2	841.2	637.2	475.2	337.9	220.3



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2076.2	1931.3	1752.0	1492.4	1258.7	1041.4	820.6	616.9	462.3	327.0	214.5
-25°	2080.1	1959.0	1741.9	1477.2	1231.9	1013.9	796.5	597.0	446.5	313.9	207.4
-27.5°	2078.6	1954.0	1726.2	1445.2	1202.3	979.8	769.9	582.9	433.4	298.6	198.7
-30°	2073.6	1901.5	1670.5	1398.7	1161.4	941.5	738.9	565.4	418.8	286.4	188.7
-32.5°	2045.0	1842.7	1599.0	1346.1	1112.8	898.3	704.7	544.1	400.9	276.1	182.3
-35°	1969.9	1763.0	1525.9	1285.5	1059.2	856.6	671.2	519.0	379.9	263.3	176.9
-37.5°	1887.8	1663.9	1451.8	1219.2	1000.4	809.7	640.1	491.7	355.7	248.0	170.7
-40°	1768.8	1555.9	1354.0	1145.0	940.2	757.4	604.2	461.2	333.8	230.1	163.1
-42.5°	1644.0	1442.8	1250.6	1057.5	875.5	710.2	563.7	426.5	310.4	216.6	154.0
-45°	1517.6	1326.0	1142.8	971.4	806.3	657.5	519.9	389.0	283.9	204.4	147.0
-47.5°	1384.0	1205.8	1037.5	879.5	740.6	599.4	469.1	355.5	254.6	190.4	144.2
-50°	1246.3	1083.1	931.0	793.9	665.7	536.8	416.3	318.3	236.4	174.6	140.8
-52.5°	1107.0	959.3	829.2	708.1	587.2	468.5	368.3	278.8	216.3	166.3	137.0
-55°	964.9	844.8	731.7	618.0	504.9	407.3	317.2	252.3	194.6	161.0	132.8
-57.5°	841.5	736.3	629.2	523.4	429.8	345.6	277.8	224.5	184.1	155.2	130.1
-60°	719.8	620.8	521.9	437.7	358.6	294.1	245.2	201.6	176.5	149.3	127.0
-62.5°	593.2	505.3	428.9	355.8	300.6	255.2	215.3	191.2	167.9	144.9	123.6
-65°	474.4	404.1	338.8	296.9	255.6	221.5	202.4	180.3	160.7	140.1	119.7
-67.5°	361.0	322.2	283.6	246.0	224.2	206.5	188.8	171.2	153.8	134.8	115.6
-70°	296.1	261.5	239.3	223.0	207.1	191.5	177.9	162.7	146.5	129.7	111.3
-72.5°	250.0	234.0	218.8	204.3	191.9	179.4	167.2	154.0	139.6	124.2	106.6
-75°	225.6	212.7	201.1	189.7	178.3	167.0	156.9	145.6	132.4	118.5	101.8
-77.5°	206.8	195.5	185.1	175.2	165.6	156.2	146.9	137.0	124.8	112.2	96.7
-80°	188.8	179.3	170.4	161.5	153.3	145.3	136.5	127.7	116.7	105.6	91.4
-82.5°	171.6	163.5	155.3	147.1	139.9	132.5	125.3	118.0	108.4	98.8	86.4
-85°	153.8	146.9	139.6	132.3	126.0	119.6	114.5	109.1	101.2	93.1	82.1
-87.5°	139.3	133.6	127.8	122.0	117.0	112.1	107.0	101.9	94.6	87.3	77.7
-90°	4.4	4.4	4.4	4.4	4.4	4.4	5.0	5.5	5.5	5.5	5.5



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	64.9	53.9	42.9	30.2	17.6	11.5	5.5
87.5°	5.8	5.7	5.7	5.7	5.7	5.6	5.5
85°	6.1	6.0	5.9	5.9	5.9	5.8	5.5
82.5°	6.4	6.2	6.1	6.1	6.1	5.9	5.5
80°	6.6	6.4	6.3	6.4	6.3	6.1	5.5
77.5°	6.9	6.7	6.5	6.6	6.5	6.2	5.5
75°	7.2	7.1	6.7	6.8	6.7	6.4	5.5
72.5°	7.6	7.5	7.1	7.1	6.9	6.5	5.5
70°	8.0	7.9	7.5	7.3	7.1	6.7	5.5
67.5°	8.6	8.3	7.9	7.6	7.3	6.8	5.5
65°	9.3	8.8	8.3	7.9	7.5	6.9	5.5
62.5°	10.0	9.5	8.7	8.2	7.8	7.1	5.5
60°	10.7	10.1	9.1	8.5	8.0	7.2	5.5
57.5°	12.5	10.8	9.8	8.7	8.3	7.4	5.5
55°	14.5	11.5	10.6	9.0	8.6	7.5	5.5
52.5°	16.7	12.4	11.4	9.3	9.0	7.6	5.5
50°	19.1	14.8	12.3	9.6	9.4	7.8	5.5
47.5°	21.7	17.2	13.2	10.0	9.8	7.9	5.5
45°	25.2	19.7	14.2	10.7	10.2	8.1	5.5
42.5°	28.8	22.2	15.3	11.5	10.6	8.2	5.5
40°	32.6	24.9	16.8	12.6	11.1	8.3	5.5
37.5°	36.7	27.6	18.9	13.9	11.6	8.5	5.5
35°	40.9	30.7	21.0	15.2	12.1	8.6	5.5
32.5°	46.4	34.1	23.1	16.6	12.7	8.7	5.5
30°	54.5	37.4	25.1	18.1	13.2	8.8	5.5
27.5°	62.6	40.8	27.8	19.5	13.8	9.0	5.5
25°	70.5	44.1	30.5	21.0	14.4	9.1	5.5
22.5°	78.2	47.5	33.0	22.5	14.9	9.2	5.5
20°	85.8	51.0	35.5	24.0	15.5	9.3	5.5
17.5°	92.6	54.5	37.9	25.6	16.1	9.4	5.5
15°	98.8	57.7	40.2	27.1	16.7	9.5	5.5
12.5°	104.4	60.9	42.4	28.5	17.3	9.6	5.5
10°	109.5	63.8	44.5	30.0	17.8	9.6	5.5
7.5°	114.1	66.6	46.5	31.4	18.4	9.7	5.5
5°	118.0	69.1	48.3	32.7	18.9	9.8	5.5
2.5°	121.4	71.5	50.1	34.0	19.3	9.8	5.5
0°	124.2	73.7	51.7	35.2	19.8	9.9	5.5
-2.5°	128.2	76.8	54.0	36.7	20.8	10.3	5.5
-5°	131.5	79.6	56.1	38.2	21.8	10.7	5.5
-7.5°	134.3	82.2	58.1	39.6	22.8	11.2	5.5
-10°	136.3	84.5	59.9	40.8	23.7	11.5	5.5
-12.5°	137.7	86.6	61.6	42.0	24.5	11.9	5.5
-15°	138.4	88.4	63.1	43.1	25.3	12.3	5.5
-17.5°	138.4	89.9	64.4	44.0	26.1	12.6	5.5
-20°	137.8	91.1	65.5	44.9	26.7	12.9	5.5



REPORT NUMBER: P701730 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	136.7	92.1	66.5	45.6	27.3	13.2	5.5
-25°	134.9	92.9	67.3	46.3	27.8	13.5	5.5
-27.5°	132.2	93.5	67.8	46.8	28.3	13.8	5.5
-30°	128.7	93.8	68.2	47.2	28.7	14.0	5.5
-32.5°	124.4	93.8	68.7	47.5	29.0	14.2	5.5
-35°	122.6	93.5	69.1	47.7	29.2	14.4	5.5
-37.5°	121.9	93.2	69.2	47.8	29.3	14.5	5.5
-40°	120.8	93.1	69.2	47.8	29.4	14.7	5.5
-42.5°	119.4	92.8	69.1	47.7	29.4	14.8	5.5
-45°	117.5	92.3	69.1	47.7	29.3	14.8	5.5
-47.5°	115.2	91.6	68.8	47.5	29.1	14.9	5.5
-50°	113.6	90.7	68.4	47.2	28.9	14.9	5.5
-52.5°	112.0	89.5	67.8	46.9	28.5	14.8	5.5
-55°	110.1	88.2	67.0	46.4	28.1	14.8	5.5
-57.5°	107.9	86.8	66.1	45.8	27.6	14.7	5.5
-60°	105.4	85.1	64.9	45.1	27.0	14.6	5.5
-62.5°	102.8	83.1	63.7	44.2	26.6	14.5	5.5
-65°	99.9	80.9	62.2	43.2	26.1	14.3	5.5
-67.5°	96.6	78.5	60.6	42.1	25.5	14.1	5.5
-70°	93.1	75.9	58.9	40.9	24.8	13.9	5.5
-72.5°	89.6	73.2	56.9	39.8	24.1	13.7	5.5
-75°	85.8	70.2	54.8	38.7	23.3	13.4	5.5
-77.5°	81.9	67.1	53.1	37.5	22.5	13.2	5.5
-80°	77.7	64.5	51.2	36.2	21.6	12.9	5.5
-82.5°	74.6	62.0	49.3	34.9	20.6	12.6	5.5
-85°	71.5	59.4	47.3	33.4	19.7	12.2	5.5
-87.5°	68.3	56.7	45.1	31.9	18.6	11.9	5.5
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(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

