

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: P701710 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-70-3S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701710 (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-08-0680R-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

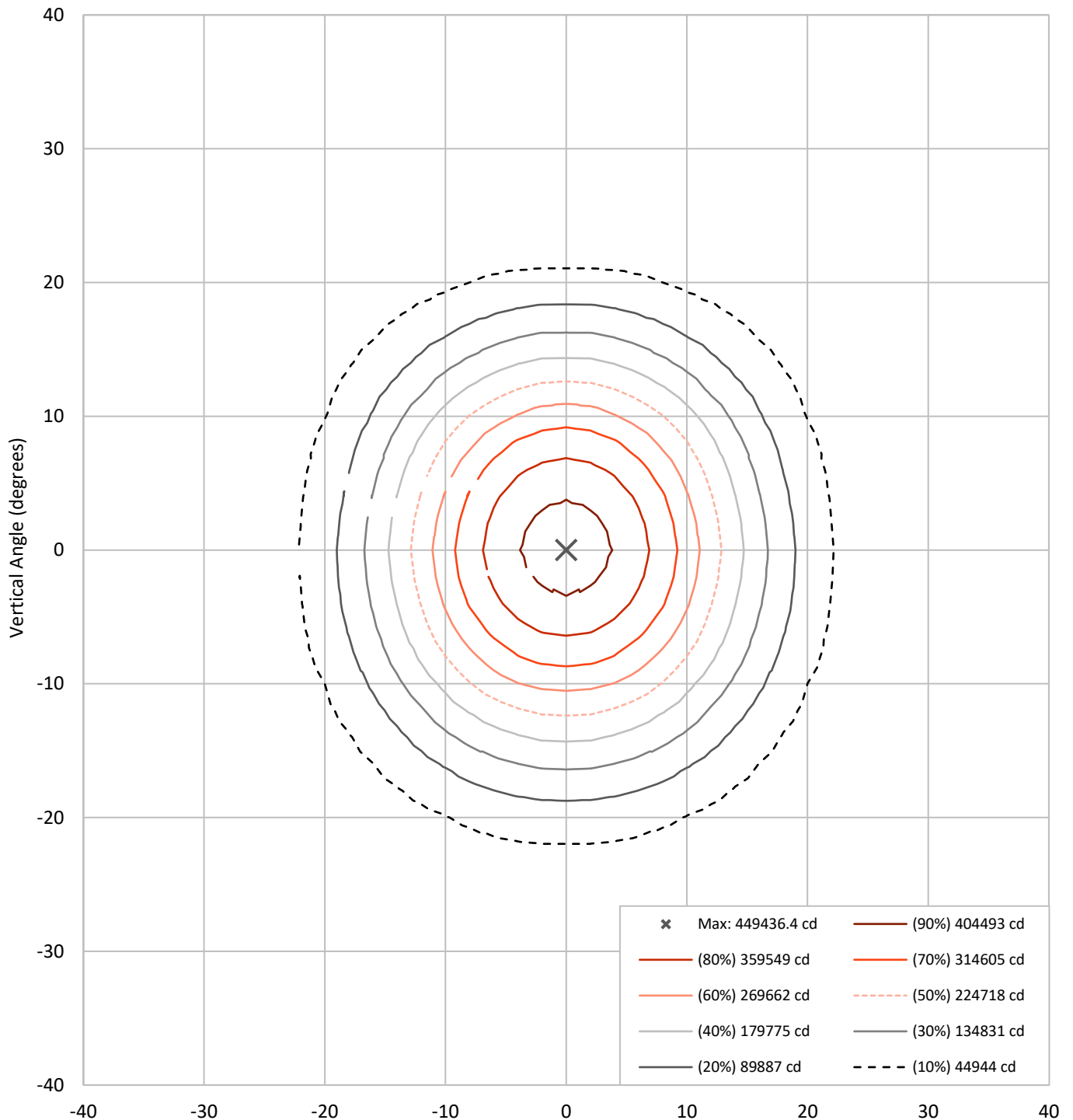
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	100975 lumens	Max Intensity:	449436.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.8 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:	48312.3 lumens	Field Lumens:	84655.1 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 697.5
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





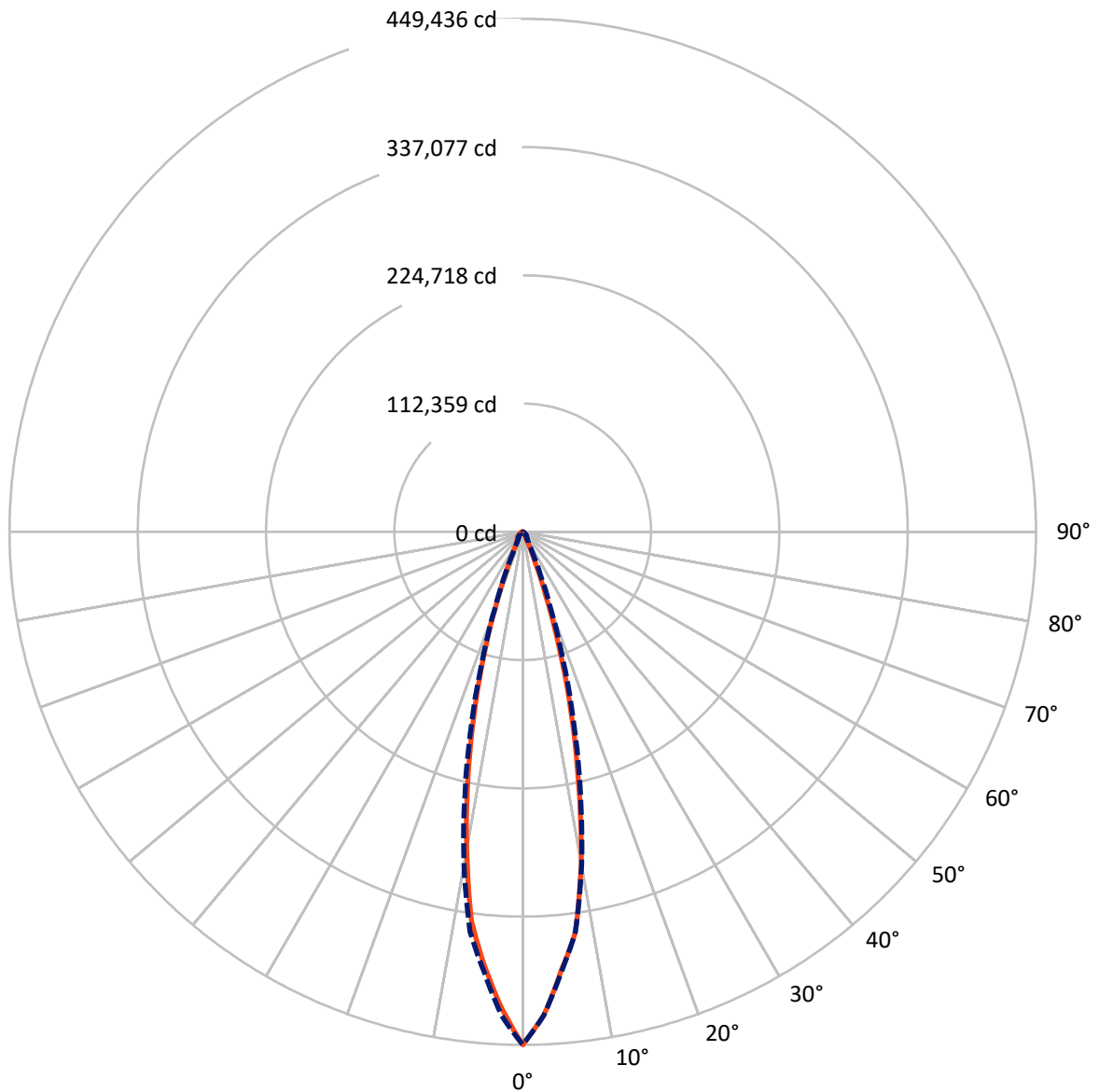
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Lumen Table

90	0.2		0.8		1.6		2.4		2.8		2.4		1.6		0.8		0.2	
80	0.2		0.3		0.8		0.9		0.8		0.6		0.6		0.8		0.9	
70	0.3	0.2	0.3	0.8	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.3	0.2	0.3		
60		0.5	1.0	1.3	1.1	1.1	1.5	1.7	1.7	1.5	1.1	1.1	1.3	1.0	0.5			
50	0.9	1.4	3.4	7.0	13.1	22.3	31.7	35.9	35.9	31.7	22.3	13.1	7.0	3.4	1.4	0.9		
40		3.5	10.7	22.1	41.6	69.0	83.4	97.9	97.9	83.4	69.0	41.6	22.1	10.7	3.5			
30	2.3	5.9	18.0	39.5	88.5	113.9	246.0	538.0	538.0	246.0	113.9	88.5	39.5	18.0	5.9	2.3		
20		7.7	23.7	64.3	127.1	307.3	1850.7	4474.3	4474.3	1850.7	307.3	127.1	64.3	23.7	7.7			
10	3.4	9.3	27.4	81.9	153.9	682.0	4495.1	10238.5	10238.5	4495.1	682.0	153.9	81.9	27.4	9.3	3.4		
0		10.3	30.2	86.6	170.5	702.9	4522.3	10132.1	10132.1	4522.3	702.9	170.5	86.6	30.2	10.3			
-10	3.7	10.4	31.2	83.7	169.9	376.8	1929.8	4516.0	4516.0	1929.8	376.8	169.9	83.7	31.2	10.4	3.7		
-20		9.6	29.7	66.2	152.9	230.8	400.0	760.7	760.7	400.0	230.8	152.9	66.2	29.7	9.6			
-30	3.1	8.2	25.5	52.9	105.6	184.7	227.9	253.0	253.0	227.9	184.7	105.6	52.9	25.5	8.2	3.1		
-40		6.3	19.4	41.0	66.9	98.7	144.7	180.2	180.2	144.7	98.7	66.9	41.0	19.4	6.3			
-50	2.6	4.3	12.6	26.8	45.0	61.3	74.4	82.5	82.5	74.4	61.3	45.0	26.8	12.6	4.3	2.6		
-60		3.0	6.7	13.8	23.4	32.3	40.8	45.9	45.9	40.8	32.3	23.4	13.8	6.7	3.0			
-70	1.8	11.1		25.6		41.7		51.2		41.7		25.6		11.1		1.8		
-80		11.1		25.6		41.7		51.2		41.7		25.6		11.1				
-90	1.8		11.1		25.6		41.7		51.2		41.7		25.6		11.1		1.8	

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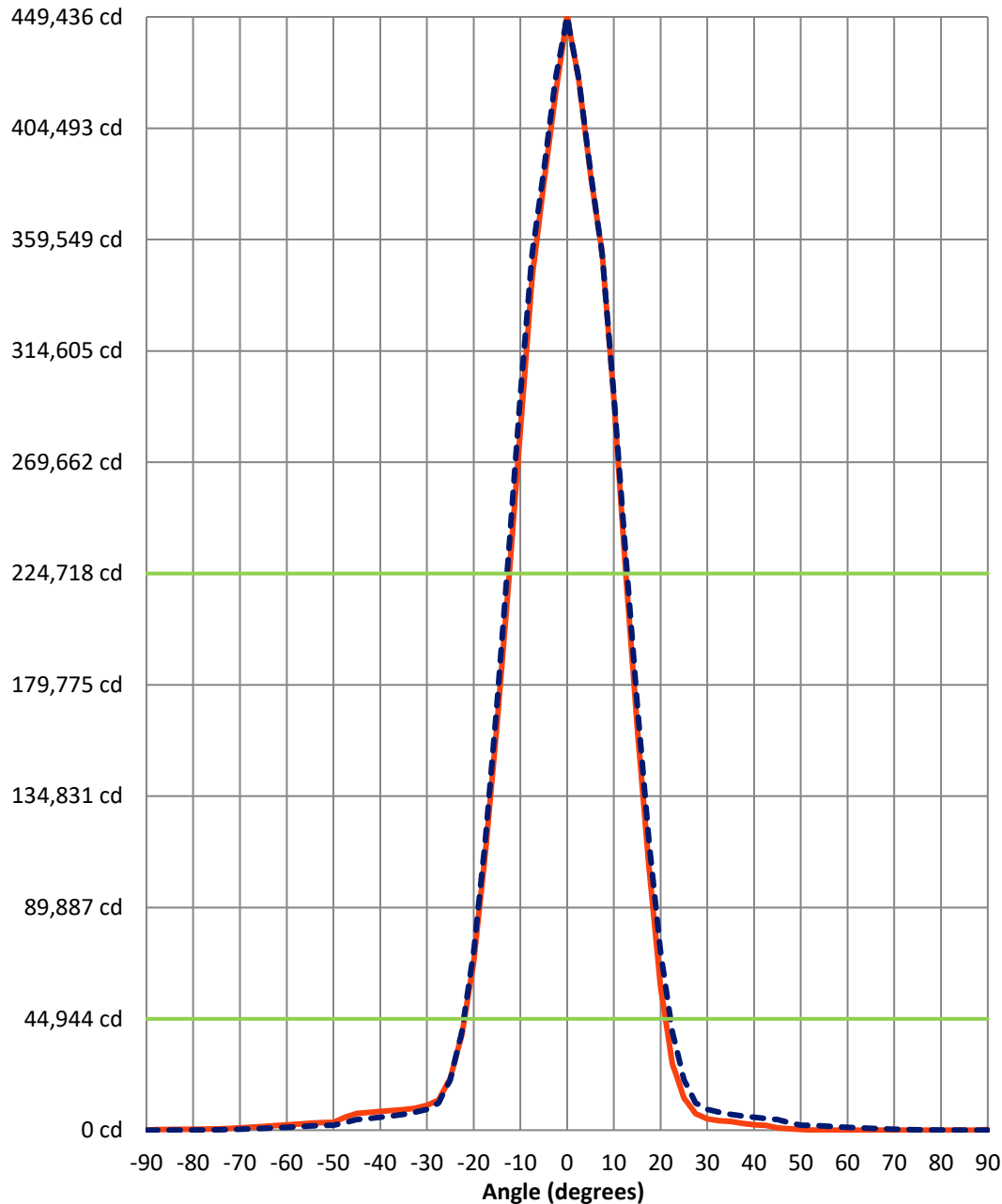
Luminous Intensity Polar Plot



— 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: 48312.3
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 84655.1
 Efficiency: 83.8%

Spill:
 Lumens: 16319.9
 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°	3.6	15.0	26.5	42.7	59.0	72.8	86.6	96.9	107.1	115.5	123.9
87.5°	3.6	3.9	3.8	3.9	4.0	4.0	3.9	3.5	3.2	3.1	2.9
85°	3.6	4.2	4.0	4.2	4.4	4.4	4.2	4.1	4.0	3.8	3.4
82.5°	3.6	4.5	4.2	4.5	4.8	4.8	4.6	4.6	4.8	4.4	4.0
80°	3.6	4.8	4.5	4.8	5.3	5.2	4.9	5.2	5.3	4.9	4.5
77.5°	3.6	5.0	4.7	5.2	5.7	5.7	5.6	5.7	5.7	5.4	5.1
75°	3.6	5.3	5.0	5.5	6.1	6.4	6.3	6.3	6.2	6.1	5.7
72.5°	3.6	5.6	5.3	5.8	6.8	7.1	7.0	7.1	7.2	6.9	6.4
70°	3.6	5.9	5.6	6.1	7.5	7.8	7.8	8.3	8.3	7.8	8.0
67.5°	3.6	6.2	5.9	6.8	8.2	8.5	9.3	9.6	9.5	10.0	10.0
65°	3.6	6.6	6.3	7.6	8.9	9.7	10.8	11.0	12.0	12.3	12.2
62.5°	3.6	6.9	6.7	8.3	9.7	11.3	12.4	13.3	14.7	14.7	14.8
60°	3.6	7.2	7.1	9.0	10.5	13.0	14.2	16.2	17.6	18.0	17.6
57.5°	3.6	7.5	7.9	9.8	12.1	14.7	16.8	19.1	21.4	21.7	23.9
55°	3.6	7.8	8.8	10.6	13.8	16.4	19.7	22.3	25.7	27.1	32.3
52.5°	3.6	8.1	9.6	11.4	15.5	18.4	22.6	26.7	30.4	37.3	41.4
50°	3.6	8.5	10.5	12.2	17.3	21.1	25.5	31.5	37.2	48.5	58.3
47.5°	3.6	8.8	11.4	13.1	19.1	23.9	28.7	36.4	48.4	60.5	78.5
45°	3.6	9.1	12.3	14.5	20.9	26.8	33.1	41.6	60.2	81.2	100.9
42.5°	3.6	9.5	13.2	15.9	22.8	29.8	37.7	50.1	72.6	103.5	135.3
40°	3.6	9.8	14.2	17.7	24.9	32.9	42.7	61.2	88.1	127.3	174.0
37.5°	3.6	10.1	15.2	19.7	27.4	36.1	48.1	72.5	109.9	155.6	215.5
35°	3.6	10.5	16.1	21.7	29.8	40.1	53.7	84.1	132.6	192.1	261.9
32.5°	3.6	10.8	17.1	23.7	32.3	44.5	60.7	96.2	156.1	228.8	307.9
30°	3.6	11.1	18.1	25.7	34.7	49.0	70.6	110.2	180.3	265.6	350.9
27.5°	3.6	11.5	19.1	27.7	37.8	53.4	80.5	128.6	204.8	302.3	390.9
25°	3.6	11.8	20.1	29.7	40.9	57.8	90.2	145.9	229.7	336.6	428.2
22.5°	3.6	12.1	21.1	31.6	44.0	62.2	99.6	162.2	252.4	359.9	468.8
20°	3.6	12.4	22.1	33.5	47.0	66.8	108.7	177.4	273.0	381.5	501.5
17.5°	3.6	12.7	23.0	35.4	50.0	71.1	117.3	191.4	291.4	401.4	532.3
15°	3.6	13.0	24.0	37.3	52.8	75.3	125.1	204.1	307.7	419.5	561.4
12.5°	3.6	13.3	24.9	39.1	55.5	79.2	132.3	215.4	324.2	435.6	588.5
10°	3.6	13.5	25.8	40.8	58.2	82.9	138.9	225.5	341.2	459.7	618.2
7.5°	3.6	13.8	26.6	42.4	60.7	86.3	144.9	234.5	356.8	484.1	655.3
5°	3.6	14.0	27.4	44.0	63.1	89.5	150.2	242.2	370.9	506.8	689.7
2.5°	3.6	14.2	28.2	45.5	65.3	92.4	154.9	248.7	383.1	527.7	720.9
0°	3.6	14.4	28.9	46.9	67.4	95.1	158.8	253.9	393.4	546.2	748.4
-2.5°	3.6	15.0	30.2	49.0	70.4	99.1	163.9	262.5	405.0	558.8	761.2
-5°	3.6	15.6	31.4	51.0	73.2	102.8	168.2	269.7	414.2	568.6	769.9
-7.5°	3.6	16.1	32.6	52.8	75.9	106.2	171.8	275.3	421.0	575.6	774.5
-10°	3.6	16.6	33.7	54.6	78.3	109.3	174.5	279.1	425.2	579.9	775.2
-12.5°	3.6	17.1	34.7	56.2	80.6	112.1	176.3	281.2	426.8	581.2	773.4
-15°	3.6	17.6	35.7	57.6	82.6	114.5	177.3	281.4	424.3	577.6	767.5
-17.5°	3.6	18.0	36.6	59.0	84.5	116.6	177.4	278.9	417.4	570.8	756.2
-20°	3.6	18.4	37.4	60.2	86.1	118.3	176.8	274.1	408.0	560.7	739.2



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 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.6	18.8	38.1	61.2	87.5	119.6	175.4	267.7	396.2	547.4	717.1
-25°	3.6	19.1	38.7	62.1	88.6	120.9	173.1	259.6	381.9	530.7	693.8
-27.5°	3.6	19.5	39.3	62.8	89.5	121.8	169.9	249.8	365.2	515.5	677.2
-30°	3.6	19.7	39.8	63.4	90.2	122.5	165.8	238.4	351.6	498.8	657.1
-32.5°	3.6	20.0	40.1	63.8	91.1	122.8	160.7	230.9	340.0	479.3	633.0
-35°	3.6	20.1	40.4	64.0	91.8	122.7	158.9	224.6	325.4	457.2	605.1
-37.5°	3.6	20.3	40.6	64.1	92.2	122.6	158.4	217.4	307.8	432.4	575.6
-40°	3.6	20.4	40.8	64.0	92.4	122.8	157.5	208.7	287.1	408.2	542.4
-42.5°	3.6	20.5	40.8	63.9	92.4	122.7	156.1	198.5	271.7	379.2	503.9
-45°	3.6	20.5	40.7	63.8	92.3	122.4	154.2	190.8	258.3	347.0	461.4
-47.5°	3.6	20.5	40.5	63.5	91.9	121.7	151.6	187.8	242.9	312.4	422.0
-50°	3.6	20.5	40.3	63.4	91.3	120.8	149.9	184.1	224.8	291.7	379.4
-52.5°	3.6	20.4	39.9	63.1	90.4	119.6	148.0	179.6	214.9	269.5	335.4
-55°	3.6	20.3	39.5	62.7	89.3	117.8	145.7	174.8	208.2	245.7	307.5
-57.5°	3.6	20.1	39.0	62.1	87.9	115.7	143.0	171.4	201.1	233.8	278.2
-60°	3.6	20.0	38.4	61.4	86.3	113.3	139.9	167.3	193.9	224.9	253.8
-62.5°	3.6	19.7	37.8	60.5	85.0	110.7	136.6	162.6	188.1	215.1	241.8
-65°	3.6	19.5	37.2	59.4	83.5	107.7	133.0	157.5	181.8	206.3	228.9
-67.5°	3.6	19.2	36.4	58.2	81.7	104.8	129.1	152.4	175.0	197.6	218.1
-70°	3.6	18.8	35.6	56.8	79.8	101.9	124.8	146.8	168.3	188.6	208.1
-72.5°	3.6	18.5	34.7	55.5	77.6	98.6	120.4	141.0	161.3	179.8	197.7
-75°	3.6	18.1	33.7	54.0	75.2	95.1	115.7	134.7	153.9	170.5	186.9
-77.5°	3.6	17.6	32.7	52.4	72.9	91.4	110.7	128.1	145.8	160.9	175.6
-80°	3.6	17.2	31.5	50.7	70.4	87.8	105.4	121.2	137.4	150.9	164.2
-82.5°	3.6	16.7	30.4	48.9	67.8	84.3	100.8	114.6	128.6	140.7	152.6
-85°	3.6	16.2	29.1	46.9	65.0	80.6	96.3	108.9	121.5	131.8	141.9
-87.5°	3.6	15.6	27.8	44.9	62.1	76.8	91.5	102.9	114.4	123.7	133.0
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	2.4	2.4	2.4



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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°	130.6	137.2	143.2	149.2	154.6	160.0	167.3	174.5	179.9	185.3	190.7
87.5°	3.0	3.0	3.0	3.1	2.8	2.4	2.4	2.4	2.2	2.1	2.2
85°	3.5	3.6	3.6	3.6	3.1	2.8	2.8	2.9	3.0	3.0	2.8
82.5°	4.1	4.2	4.0	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.3
80°	4.6	4.8	4.4	4.0	4.1	4.3	4.1	3.7	3.6	3.7	3.8
77.5°	5.0	4.9	4.7	4.6	4.8	5.0	5.0	4.9	4.9	4.7	4.7
75°	5.4	5.0	5.1	5.0	5.0	5.6	6.0	6.0	5.8	5.6	5.7
72.5°	6.3	6.3	6.1	5.4	5.5	6.0	6.0	6.0	7.5	9.9	12.0
70°	7.9	7.8	7.3	6.9	6.6	7.1	9.1	12.4	16.1	19.5	22.8
67.5°	9.5	9.3	8.8	8.7	9.9	12.0	14.5	23.0	31.8	34.9	35.5
65°	11.2	11.0	11.1	12.5	14.2	20.2	28.0	38.2	46.7	46.2	42.6
62.5°	13.3	14.9	14.9	17.9	23.8	31.2	40.2	48.9	56.5	52.9	44.0
60°	19.0	20.1	22.9	28.4	34.5	41.7	51.1	53.9	55.8	54.5	42.8
57.5°	26.3	29.3	35.1	40.2	47.5	50.7	51.4	50.9	54.2	52.0	40.2
55°	36.7	42.0	49.8	55.0	59.3	53.0	52.3	55.6	55.2	50.5	39.1
52.5°	52.4	58.1	68.8	72.7	69.3	64.3	62.5	65.6	63.2	56.8	49.3
50°	69.5	83.1	90.1	93.3	87.1	86.4	80.2	84.1	87.6	84.5	95.1
47.5°	95.6	111.9	117.1	122.7	119.8	130.8	125.1	145.9	147.3	207.8	225.9
45°	127.0	148.9	155.0	169.5	185.5	204.7	238.0	246.8	346.3	406.9	478.5
42.5°	164.8	192.4	217.3	225.6	297.0	335.8	385.7	478.3	570.9	647.0	700.4
40°	213.6	241.7	294.1	356.8	432.8	498.8	594.0	701.2	789.5	847.9	875.4
37.5°	267.2	322.1	390.9	492.3	584.7	668.5	790.2	897.5	975.8	1029.8	1036.8
35°	324.8	402.8	515.4	618.2	713.6	827.1	947.9	1071.3	1135.4	1158.8	1258.2
32.5°	392.0	481.4	614.8	726.4	833.9	962.6	1091.0	1197.5	1254.2	1320.1	1656.6
30°	455.5	563.8	696.6	815.3	948.4	1095.0	1217.8	1318.2	1357.4	1703.1	2247.5
27.5°	506.3	635.4	768.7	911.8	1064.6	1232.3	1356.1	1421.3	1645.5	2157.2	2944.1
25°	553.5	692.5	841.5	1020.1	1194.0	1360.2	1486.2	1527.9	1994.2	2861.8	3448.4
22.5°	599.8	748.2	921.8	1134.8	1312.9	1468.0	1573.3	1825.9	2494.1	3592.9	3897.4
20°	646.0	814.1	1009.0	1221.5	1417.9	1562.7	1643.6	2140.1	3101.2	3873.8	4216.4
17.5°	690.6	880.5	1089.1	1294.4	1492.5	1639.2	1743.8	2405.2	3582.0	4125.8	4463.1
15°	734.0	937.1	1150.9	1362.9	1564.9	1706.2	1990.2	2794.0	3880.6	4430.7	4787.0
12.5°	775.7	985.5	1196.4	1422.3	1635.0	1771.3	2245.7	3265.3	4192.3	4731.2	5116.2
10°	814.9	1026.2	1236.0	1476.5	1700.2	1828.0	2485.6	3705.6	4477.4	4945.0	5294.0
7.5°	854.5	1062.9	1271.8	1525.4	1761.6	1879.7	2688.4	3946.5	4589.4	5086.2	5419.4
5°	889.5	1096.8	1314.2	1585.9	1821.2	1927.2	2859.7	4108.6	4624.8	5156.7	5509.7
2.5°	919.4	1125.0	1351.3	1642.2	1874.8	1970.2	2976.4	4232.2	4667.7	5206.9	5621.9
0°	944.5	1147.8	1382.4	1690.5	1920.3	2009.3	3053.7	4298.9	4694.8	5229.0	5746.3
-2.5°	962.9	1178.1	1432.2	1731.4	1957.6	2050.1	3078.0	4327.5	4734.2	5350.4	6025.7
-5°	976.5	1202.4	1473.8	1764.0	1988.0	2087.7	3060.6	4300.8	4781.2	5462.5	6203.3
-7.5°	985.0	1219.9	1505.9	1788.3	2013.3	2130.1	3008.4	4270.2	4928.6	5603.1	6292.6
-10°	988.9	1229.0	1510.8	1797.5	2033.7	2172.5	2919.2	4166.6	5035.2	5656.8	6299.9
-12.5°	992.4	1230.9	1504.9	1795.9	2046.3	2211.3	2807.0	4042.1	5133.3	5677.0	6254.3
-15°	989.4	1227.1	1491.5	1784.7	2062.4	2260.4	2663.5	3811.2	5177.1	5655.8	6168.7
-17.5°	979.4	1217.7	1473.2	1770.3	2072.7	2306.0	2475.5	3455.4	4941.8	5590.5	6103.4
-20°	962.4	1200.7	1447.0	1742.7	2067.1	2325.8	2470.7	3195.0	4448.7	5462.2	6006.4



REPORT NUMBER: P701710 (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°	939.9	1176.5	1415.8	1706.1	2034.6	2317.7	2505.1	2908.0	3889.9	5274.3	5860.3
-25°	913.5	1145.9	1383.6	1666.7	1989.2	2302.2	2524.1	2643.6	3428.0	4637.4	5628.1
-27.5°	883.0	1109.4	1346.9	1614.0	1929.9	2255.9	2493.3	2651.0	3052.5	3909.2	5275.5
-30°	847.1	1067.2	1299.6	1552.9	1857.3	2168.4	2440.6	2641.4	2758.7	3412.2	4510.7
-32.5°	806.3	1018.7	1245.6	1494.4	1775.3	2074.3	2362.1	2579.2	2740.1	2954.1	3790.7
-35°	767.5	969.1	1185.7	1428.4	1687.4	1968.3	2238.3	2494.5	2696.2	2834.1	3174.2
-37.5°	733.2	915.1	1123.1	1356.8	1606.2	1846.6	2104.6	2368.6	2599.8	2790.4	2910.8
-40°	694.0	856.8	1058.6	1279.5	1501.6	1723.6	1964.6	2216.7	2471.4	2680.7	2864.3
-42.5°	650.0	807.7	988.4	1189.4	1393.6	1603.2	1817.8	2056.6	2296.6	2535.3	2728.9
-45°	601.2	753.0	913.5	1094.2	1279.4	1477.1	1680.5	1886.9	2114.0	2339.2	2551.0
-47.5°	546.3	692.1	845.2	992.8	1164.7	1346.1	1536.0	1730.7	1925.0	2131.9	2336.3
-50°	489.0	624.4	765.7	900.8	1047.7	1212.9	1387.2	1568.5	1751.8	1925.3	2105.2
-52.5°	436.0	550.6	679.9	809.4	938.4	1078.8	1236.4	1400.1	1569.8	1738.6	1890.8
-55°	378.7	481.7	589.2	711.4	834.8	956.3	1084.1	1232.2	1376.4	1531.7	1681.2
-57.5°	335.9	411.6	505.8	607.5	723.0	840.5	953.6	1065.2	1190.8	1320.8	1452.7
-60°	301.7	354.9	426.9	513.5	604.5	712.9	824.2	927.2	1022.0	1118.7	1238.2
-62.5°	270.1	313.8	363.8	424.1	503.2	583.8	679.5	777.8	869.9	958.4	1047.3
-65°	254.7	277.7	315.5	360.5	405.8	474.4	547.7	622.9	707.4	788.6	871.3
-67.5°	238.6	260.4	281.3	305.8	346.5	386.6	426.2	492.4	558.6	618.3	678.4
-70°	226.2	243.2	262.1	280.4	298.8	322.3	358.4	395.4	431.3	470.8	521.3
-72.5°	214.0	229.2	244.5	259.3	275.9	292.8	310.1	328.2	354.5	385.0	412.6
-75°	201.5	214.8	228.1	241.5	255.2	269.2	283.8	299.8	316.1	332.5	347.2
-77.5°	188.8	201.3	212.7	223.8	235.6	248.1	261.1	274.2	287.6	301.2	312.6
-80°	175.9	187.6	197.6	207.4	217.5	227.8	238.9	250.2	261.5	272.9	282.8
-82.5°	162.6	172.6	181.6	190.4	199.1	207.7	217.3	227.1	236.9	246.7	255.1
-85°	149.8	157.4	165.1	172.8	180.4	188.0	196.6	205.1	213.3	221.5	228.8
-87.5°	140.2	147.3	153.8	160.2	166.3	172.3	179.8	187.2	193.5	199.9	205.9
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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°	196.1	199.7	203.3	206.4	209.4	213.6	217.8	223.8	229.8	237.0	244.2
87.5°	2.2	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.8	2.4
85°	2.4	2.4	2.4	2.7	3.1	3.2	3.3	3.4	3.4	3.5	3.6
82.5°	3.0	3.0	3.1	3.4	3.6	3.6	3.6	3.6	3.6	4.1	4.7
80°	3.9	4.0	4.2	4.3	4.3	4.1	3.7	3.6	3.6	4.2	4.8
77.5°	4.9	5.0	4.8	4.6	4.2	3.9	3.6	3.6	3.6	3.7	3.7
75°	5.9	6.0	6.4	6.7	7.3	7.4	6.9	7.0	7.4	7.3	6.9
72.5°	13.2	13.6	13.6	15.2	16.7	17.2	17.7	18.9	20.2	22.1	24.2
70°	25.8	28.5	29.6	29.7	28.5	27.8	27.2	27.1	27.5	28.8	30.4
67.5°	37.3	38.4	37.9	37.4	35.2	32.5	29.5	27.9	28.5	29.9	31.8
65°	42.1	38.8	36.4	35.5	33.5	30.1	25.6	22.4	21.7	21.2	21.1
62.5°	37.9	31.9	29.1	27.5	24.6	21.8	17.5	14.2	13.0	12.2	12.0
60°	33.0	25.7	21.1	19.0	15.8	12.3	10.1	7.7	7.0	6.5	6.6
57.5°	28.7	21.2	15.9	15.0	12.1	9.5	7.7	5.7	5.1	4.8	5.0
55°	29.6	25.8	21.6	19.4	16.1	14.6	12.9	11.6	10.6	10.8	11.5
52.5°	41.8	44.9	39.5	38.1	47.4	47.5	39.2	52.0	59.8	65.7	67.4
50°	107.7	107.0	142.2	136.2	168.7	195.3	196.4	212.5	243.3	264.4	275.8
47.5°	286.1	318.2	359.3	402.3	436.0	478.0	520.5	552.3	560.1	560.9	566.5
45°	538.6	584.5	646.2	691.4	755.1	794.4	827.0	856.6	924.7	987.4	1060.6
42.5°	752.1	802.2	866.2	958.1	1025.2	1204.4	1478.4	1545.7	1555.4	1611.2	1692.3
40°	920.7	986.4	1128.4	1329.9	1759.2	2144.2	2213.6	2271.4	2296.8	2265.9	2321.1
37.5°	1124.8	1278.7	1598.6	2149.5	2353.0	2457.8	2531.5	2575.8	2629.6	2679.3	2706.4
35°	1463.6	1892.7	2173.0	2467.2	2600.3	2653.4	2707.6	2762.1	2804.4	2859.4	2903.4
32.5°	2159.0	2636.8	2664.9	2737.6	2807.0	2876.1	2926.6	2978.5	3023.6	3094.9	3244.6
30°	2859.6	2963.8	2989.2	2995.8	3059.1	3141.9	3185.8	3290.7	3432.3	3594.8	3940.4
27.5°	3232.6	3304.2	3319.1	3326.3	3355.7	3453.6	3635.2	3778.4	4118.4	4531.0	5419.3
25°	3686.7	3737.6	3791.7	3789.4	3834.2	4007.6	4362.6	4664.9	5813.4	6888.1	9203.5
22.5°	4119.9	4274.1	4350.9	4453.8	4605.9	4921.5	5544.3	7293.7	10218.7	13951.3	18598.2
20°	4421.0	4628.4	4835.1	5122.2	5489.7	6144.8	8090.4	13325.3	19577.0	28648.3	36256.9
17.5°	4724.8	4959.0	5324.5	5767.5	6384.7	8584.5	14288.5	23177.1	36015.4	52120.1	66250.2
15°	5120.9	5398.9	5888.2	6520.6	8245.2	12940.8	22456.0	38629.8	58146.5	80785.1	104532.7
12.5°	5390.5	5773.6	6355.4	7172.2	10002.8	18797.2	34117.7	56290.0	83151.6	111676.9	149531.1
10°	5589.9	6047.9	6838.1	8531.6	13664.4	25261.5	43671.8	71342.6	108169.0	151643.6	194922.3
7.5°	5757.2	6374.1	7366.2	9500.0	16823.5	31444.6	54912.1	88544.7	132116.5	184501.3	234830.7
5°	5907.7	6725.5	7874.3	10544.0	19654.1	35921.4	62387.1	101391.5	151848.1	209060.9	264628.1
2.5°	6106.5	7054.5	8203.9	10831.2	20787.1	38401.9	68310.1	111765.1	165936.3	226120.2	286577.5
0°	6382.8	7268.4	8405.4	11015.0	20434.7	39956.1	71940.1	116971.2	172110.1	233285.4	296695.0
-2.5°	6600.1	7391.6	8522.7	10866.9	20262.3	39225.2	70301.8	113936.4	166065.7	225178.8	288430.6
-5°	6740.5	7480.0	8574.2	10922.2	19827.6	36431.4	65463.1	105985.1	153757.0	207117.9	265606.8
-7.5°	6822.6	7512.4	8520.8	10574.0	17852.7	32625.5	56850.3	91329.0	134184.3	183561.5	231898.7
-10°	6871.8	7491.4	8409.2	10081.3	15016.7	26514.1	44881.9	74103.6	111235.3	151022.9	190560.9
-12.5°	6890.3	7447.2	8251.9	9375.7	12039.9	20757.3	35727.7	56466.4	84029.6	116667.4	151507.0
-15°	6854.1	7382.9	8099.9	9072.8	10845.3	15560.7	24930.2	39034.9	59579.5	84498.6	109745.1
-17.5°	6719.5	7316.5	7874.7	8621.7	9665.0	11888.7	17591.3	26644.5	39173.2	55644.4	70210.2
-20°	6541.1	7191.2	7669.1	8329.4	9148.6	10166.3	11995.1	17520.3	24545.5	34081.2	43587.9



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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°	6382.3	6977.1	7578.0	8031.2	8672.8	9341.8	10167.6	11748.2	15278.2	20038.9	26065.6
-25°	6235.8	6780.3	7396.9	7887.0	8248.9	8721.9	9239.2	9792.9	10992.0	12116.3	15023.7
-27.5°	6029.5	6593.6	7128.3	7651.4	8000.2	8214.8	8567.4	8911.5	9413.6	9860.2	10714.1
-30°	5789.6	6341.4	6850.2	7325.5	7682.8	7908.6	8083.4	8320.0	8585.8	8856.2	9223.0
-32.5°	4934.5	6045.2	6518.8	6947.9	7316.5	7581.9	7767.0	7922.5	8075.9	8248.9	8442.3
-35°	3997.7	5094.7	6163.6	6498.1	6846.4	7197.9	7472.3	7619.0	7752.5	7873.7	7992.0
-37.5°	3250.3	4024.3	4983.6	5895.4	6318.6	6673.5	7003.4	7259.6	7446.7	7560.4	7666.7
-40°	2957.8	3153.9	3891.7	4642.5	5364.6	6020.2	6355.6	6734.3	7042.1	7209.1	7324.8
-42.5°	2887.8	2977.9	3046.8	3522.5	4096.8	4649.6	5261.3	5868.4	6344.9	6662.6	6898.8
-45°	2734.6	2864.2	2967.0	3009.4	3035.4	3438.4	3912.1	4375.8	4910.8	5463.5	5965.3
-47.5°	2517.6	2686.1	2802.2	2893.0	2947.3	2964.4	2997.7	3101.7	3490.2	3898.7	4287.6
-50°	2275.5	2429.9	2569.0	2695.4	2770.6	2831.5	2889.9	2945.8	2993.2	3052.9	3106.8
-52.5°	2031.7	2173.3	2298.3	2409.3	2508.9	2605.0	2697.5	2766.6	2834.2	2906.7	2965.6
-55°	1814.6	1929.4	2034.1	2131.5	2221.4	2302.7	2386.2	2475.6	2568.0	2658.4	2728.6
-57.5°	1582.5	1692.3	1791.5	1874.0	1946.3	2007.0	2083.7	2167.4	2254.3	2334.8	2396.0
-60°	1348.4	1445.4	1536.2	1616.1	1684.8	1741.3	1812.2	1883.0	1960.5	2029.5	2083.9
-62.5°	1126.0	1207.8	1285.0	1354.8	1417.2	1474.5	1537.5	1600.7	1673.6	1737.7	1789.8
-65°	941.2	1004.7	1057.5	1107.0	1145.6	1195.2	1256.0	1314.3	1377.8	1433.4	1479.8
-67.5°	741.1	799.6	848.0	891.2	925.1	960.6	1005.7	1052.1	1101.3	1145.5	1184.3
-70°	566.2	605.6	637.0	669.2	704.1	737.9	773.9	813.7	855.0	891.5	923.5
-72.5°	436.8	456.2	474.6	500.9	524.2	547.7	570.6	599.1	629.7	657.4	682.4
-75°	360.9	372.9	386.9	399.4	410.2	422.8	435.4	453.9	474.0	493.0	510.9
-77.5°	323.8	332.5	339.6	345.3	350.4	358.0	366.1	379.9	394.7	410.8	426.8
-80°	292.2	298.9	304.9	310.0	314.6	320.9	327.4	339.4	352.1	365.7	379.2
-82.5°	263.2	268.5	273.3	277.9	282.4	287.7	293.0	303.6	314.5	325.9	337.1
-85°	235.9	240.4	244.5	248.3	252.0	256.6	261.1	270.2	279.3	288.9	298.5
-87.5°	211.9	215.9	220.0	223.4	226.8	230.8	234.7	242.7	250.7	258.7	266.7
-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: P701710 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	244.8	245.4	246.1	246.7	246.1	245.4	244.8	244.2	237.0	229.8	223.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.4
82.5°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.7	4.1	3.6	3.6
80°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.8	4.2	3.6	3.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.6	3.6
75°	6.0	4.9	4.2	3.6	4.2	4.9	6.0	6.9	7.3	7.4	7.0
72.5°	24.8	24.8	25.2	25.3	25.2	24.8	24.8	24.2	22.1	20.2	18.9
70°	31.4	32.2	32.4	32.5	32.4	32.2	31.4	30.4	28.8	27.5	27.1
67.5°	32.0	31.4	30.8	30.1	30.8	31.4	32.0	31.8	29.9	28.5	27.9
65°	20.1	18.7	16.5	14.4	16.5	18.7	20.1	21.1	21.2	21.7	22.4
62.5°	11.6	11.1	10.9	10.8	10.9	11.1	11.6	12.0	12.2	13.0	14.2
60°	6.8	7.2	7.2	7.2	7.2	7.2	6.8	6.6	6.5	7.0	7.7
57.5°	5.2	5.8	6.5	7.2	6.5	5.8	5.2	5.0	4.8	5.1	5.7
55°	12.3	13.6	14.3	14.4	14.3	13.6	12.3	11.5	10.8	10.6	11.6
52.5°	65.0	61.7	58.8	56.5	58.8	61.7	65.0	67.4	65.7	59.8	52.0
50°	280.9	288.2	291.6	291.2	291.6	288.2	280.9	275.8	264.4	243.3	212.5
47.5°	578.5	582.6	579.2	570.3	579.2	582.6	578.5	566.5	560.9	560.1	552.3
45°	1150.1	1100.2	1011.8	933.7	1011.8	1100.2	1150.1	1060.6	987.4	924.7	856.6
42.5°	1800.2	1859.8	1904.6	1925.1	1904.6	1859.8	1800.2	1692.3	1611.2	1555.4	1545.7
40°	2259.1	2195.4	2182.6	2192.2	2182.6	2195.4	2259.1	2321.1	2265.9	2296.8	2271.4
37.5°	2713.2	2771.1	2814.0	2744.4	2814.0	2771.1	2713.2	2706.4	2679.3	2629.6	2575.8
35°	3005.7	3211.6	3453.3	3526.5	3453.3	3211.6	3005.7	2903.4	2859.4	2804.4	2762.1
32.5°	3495.1	3712.4	3806.6	3829.7	3806.6	3712.4	3495.1	3244.6	3094.9	3023.6	2978.5
30°	4273.6	4490.7	4529.7	4561.2	4529.7	4490.7	4273.6	3940.4	3594.8	3432.3	3290.7
27.5°	6008.9	6494.5	6609.8	6690.8	6609.8	6494.5	6008.9	5419.3	4531.0	4118.4	3778.4
25°	11031.4	12294.8	13120.0	13040.0	13120.0	12294.8	11031.4	9203.5	6888.1	5813.4	4664.9
22.5°	23254.2	25734.2	27057.5	27034.1	27057.5	25734.2	23254.2	18598.2	13951.3	10218.7	7293.7
20°	47096.6	54434.9	58406.8	57954.4	58406.8	54434.9	47096.6	36256.9	28648.3	19577.0	13325.3
17.5°	82121.4	96294.8	106196.6	106602.2	106196.6	96294.8	82121.4	66250.2	52120.1	36015.4	23177.1
15°	126984.2	148013.9	162859.6	162857.7	162859.6	148013.9	126984.2	104532.7	80785.1	58146.5	38629.8
12.5°	181584.8	206722.2	223708.0	226255.3	223708.0	206722.2	181584.8	149531.1	111676.9	83151.6	56290.0
10°	233986.9	262460.1	288138.9	295209.0	288138.9	262460.1	233986.9	194922.3	151643.6	108169.0	71342.6
7.5°	278341.1	323131.6	346522.5	353889.6	346522.5	323131.6	278341.1	234830.7	184501.3	132116.5	88544.7
5°	321877.6	360647.5	380286.1	385971.5	380286.1	360647.5	321877.6	264628.1	209060.9	151848.1	101391.5
2.5°	344779.1	380366.0	407968.3	423976.1	407968.3	380366.0	344779.1	286577.5	226120.2	165936.3	111765.1
0°	353395.7	387206.0	424223.4	449436.4	424223.4	387206.0	353395.7	296695.0	233285.4	172110.1	116971.2
-2.5°	344777.2	377492.8	404772.2	418053.5	404772.2	377492.8	344777.2	288430.6	225178.8	166065.7	113936.4
-5°	318652.0	357132.8	376994.4	382022.7	376994.4	357132.8	318652.0	265606.8	207117.9	153757.0	105985.1
-7.5°	276926.2	313935.0	338286.6	343771.5	338286.6	313935.0	276926.2	231898.7	183561.5	134184.3	91329.0
-10°	230473.2	262085.0	278513.3	282575.7	278513.3	262085.0	230473.2	190560.9	151022.9	111235.3	74103.6
-12.5°	179082.8	202265.5	219035.3	221311.4	219035.3	202265.5	179082.8	151507.0	116667.4	84029.6	56466.4
-15°	133299.5	148631.3	162151.3	163704.8	162151.3	148631.3	133299.5	109745.1	84498.6	59579.5	39034.9
-17.5°	89303.8	101997.2	109562.0	111744.6	109562.0	101997.2	89303.8	70210.2	55644.4	39173.2	26644.5
-20°	53507.7	62590.8	67632.1	67821.6	67632.1	62590.8	53507.7	43587.9	34081.2	24545.5	17520.3



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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°	31042.5	36096.5	38763.8	38712.1	38763.8	36096.5	31042.5	26065.6	20038.9	15278.2	11748.2
-25°	17902.8	20115.7	20998.9	21030.2	20998.9	20115.7	17902.8	15023.7	12116.3	10992.0	9792.9
-27.5°	11399.5	11907.5	12110.9	12143.6	12110.9	11907.5	11399.5	10714.1	9860.2	9413.6	8911.5
-30°	9557.5	9854.7	9991.3	10029.6	9991.3	9854.7	9557.5	9223.0	8856.2	8585.8	8320.0
-32.5°	8623.8	8787.6	8897.9	8881.8	8897.9	8787.6	8623.8	8442.3	8248.9	8075.9	7922.5
-35°	8107.6	8208.9	8270.9	8300.7	8270.9	8208.9	8107.6	7992.0	7873.7	7752.5	7619.0
-37.5°	7772.8	7863.5	7922.2	7939.7	7922.2	7863.5	7772.8	7666.7	7560.4	7446.7	7259.6
-40°	7424.5	7499.9	7548.2	7565.5	7548.2	7499.9	7424.5	7324.8	7209.1	7042.1	6734.3
-42.5°	7048.6	7129.6	7168.1	7168.5	7168.1	7129.6	7048.6	6898.8	6662.6	6344.9	5868.4
-45°	6377.0	6626.4	6751.2	6757.0	6751.2	6626.4	6377.0	5965.3	5463.5	4910.8	4375.8
-47.5°	4641.4	4887.9	5086.0	5232.6	5086.0	4887.9	4641.4	4287.6	3898.7	3490.2	3101.7
-50°	3154.0	3170.2	3171.2	3157.1	3171.2	3170.2	3154.0	3106.8	3052.9	2993.2	2945.8
-52.5°	3011.6	3028.4	3040.8	3047.6	3040.8	3028.4	3011.6	2965.6	2906.7	2834.2	2766.6
-55°	2780.5	2801.7	2810.4	2807.0	2810.4	2801.7	2780.5	2728.6	2658.4	2568.0	2475.6
-57.5°	2437.0	2451.1	2457.6	2455.7	2457.6	2451.1	2437.0	2396.0	2334.8	2254.3	2167.4
-60°	2117.2	2127.6	2133.6	2133.2	2133.6	2127.6	2117.2	2083.9	2029.5	1960.5	1883.0
-62.5°	1819.0	1828.4	1835.1	1836.0	1835.1	1828.4	1819.0	1789.8	1737.7	1673.6	1600.7
-65°	1503.0	1510.0	1514.5	1513.6	1514.5	1510.0	1503.0	1479.8	1433.4	1377.8	1314.3
-67.5°	1201.4	1206.4	1210.5	1210.4	1210.5	1206.4	1201.4	1184.3	1145.5	1101.3	1052.1
-70°	933.6	934.1	936.1	934.9	936.1	934.1	933.6	923.5	891.5	855.0	813.7
-72.5°	688.2	687.5	687.1	684.6	687.1	687.5	688.2	682.4	657.4	629.7	599.1
-75°	512.7	510.9	509.2	506.5	509.2	510.9	512.7	510.9	493.0	474.0	453.9
-77.5°	428.6	428.6	425.8	422.3	425.8	428.6	428.6	426.8	410.8	394.7	379.9
-80°	380.0	379.6	378.3	376.6	378.3	379.6	380.0	379.2	365.7	352.1	339.4
-82.5°	338.3	338.9	338.6	338.1	338.6	338.9	338.3	337.1	325.9	314.5	303.6
-85°	299.6	300.5	300.1	299.6	300.1	300.5	299.6	298.5	288.9	279.3	270.2
-87.5°	267.5	268.2	268.3	268.3	268.3	268.2	267.5	266.7	258.7	250.7	242.7
-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°	217.8	213.6	209.4	206.4	203.3	199.7	196.1	190.7	185.3	179.9	174.5
87.5°	1.2	1.2	1.2	1.7	2.2	2.2	2.2	2.2	2.1	2.2	2.4
85°	3.3	3.2	3.1	2.7	2.4	2.4	2.4	2.8	3.0	3.0	2.9
82.5°	3.6	3.6	3.6	3.4	3.1	3.0	3.0	3.3	3.6	3.6	3.6
80°	3.7	4.1	4.3	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.7
77.5°	3.6	3.9	4.2	4.6	4.8	5.0	4.9	4.7	4.7	4.9	4.9
75°	6.9	7.4	7.3	6.7	6.4	6.0	5.9	5.7	5.6	5.8	6.0
72.5°	17.7	17.2	16.7	15.2	13.6	13.6	13.2	12.0	9.9	7.5	6.0
70°	27.2	27.8	28.5	29.7	29.6	28.5	25.8	22.8	19.5	16.1	12.4
67.5°	29.5	32.5	35.2	37.4	37.9	38.4	37.3	35.5	34.9	31.8	23.0
65°	25.6	30.1	33.5	35.5	36.4	38.8	42.1	42.6	46.2	46.7	38.2
62.5°	17.5	21.8	24.6	27.5	29.1	31.9	37.9	44.0	52.9	56.5	48.9
60°	10.1	12.3	15.8	19.0	21.1	25.7	33.0	42.8	54.5	55.8	53.9
57.5°	7.7	9.5	12.1	15.0	15.9	21.2	28.7	40.2	52.0	54.2	50.9
55°	12.9	14.6	16.1	19.4	21.6	25.8	29.6	39.1	50.5	55.2	55.6
52.5°	39.2	47.5	47.4	38.1	39.5	44.9	41.8	49.3	56.8	63.2	65.6
50°	196.4	195.3	168.7	136.2	142.2	107.0	107.7	95.1	84.5	87.6	84.1
47.5°	520.5	478.0	436.0	402.3	359.3	318.2	286.1	225.9	207.8	147.3	145.9
45°	827.0	794.4	755.1	691.4	646.2	584.5	538.6	478.5	406.9	346.3	246.8
42.5°	1478.4	1204.4	1025.2	958.1	866.2	802.2	752.1	700.4	647.0	570.9	478.3
40°	2213.6	2144.2	1759.2	1329.9	1128.4	986.4	920.7	875.4	847.9	789.5	701.2
37.5°	2531.5	2457.8	2353.0	2149.5	1598.6	1278.7	1124.8	1036.8	1029.8	975.8	897.5
35°	2707.6	2653.4	2600.3	2467.2	2173.0	1892.7	1463.6	1258.2	1158.8	1135.4	1071.3
32.5°	2926.6	2876.1	2807.0	2737.6	2664.9	2636.8	2159.0	1656.6	1320.1	1254.2	1197.5
30°	3185.8	3141.9	3059.1	2995.8	2989.2	2963.8	2859.6	2247.5	1703.1	1357.4	1318.2
27.5°	3635.2	3453.6	3355.7	3326.3	3319.1	3304.2	3232.6	2944.1	2157.2	1645.5	1421.3
25°	4362.6	4007.6	3834.2	3789.4	3791.7	3737.6	3686.7	3448.4	2861.8	1994.2	1527.9
22.5°	5544.3	4921.5	4605.9	4453.8	4350.9	4274.1	4119.9	3897.4	3592.9	2494.1	1825.9
20°	8090.4	6144.8	5489.7	5122.2	4835.1	4628.4	4421.0	4216.4	3873.8	3101.2	2140.1
17.5°	14288.5	8584.5	6384.7	5767.5	5324.5	4959.0	4724.8	4463.1	4125.8	3582.0	2405.2
15°	22456.0	12940.8	8245.2	6520.6	5888.2	5398.9	5120.9	4787.0	4430.7	3880.6	2794.0
12.5°	34117.7	18797.2	10002.8	7172.2	6355.4	5773.6	5390.5	5116.2	4731.2	4192.3	3265.3
10°	43671.8	25261.5	13664.4	8531.6	6838.1	6047.9	5589.9	5294.0	4945.0	4477.4	3705.6
7.5°	54912.1	31444.6	16823.5	9500.0	7366.2	6374.1	5757.2	5419.4	5086.2	4589.4	3946.5
5°	62387.1	35921.4	19654.1	10544.0	7874.3	6725.5	5907.7	5509.7	5156.7	4624.8	4108.6
2.5°	68310.1	38401.9	20787.1	10831.2	8203.9	7054.5	6106.5	5621.9	5206.9	4667.7	4232.2
0°	71940.1	39956.1	20434.7	11015.0	8405.4	7268.4	6382.8	5746.3	5229.0	4694.8	4298.9
-2.5°	70301.8	39225.2	20262.3	10866.9	8522.7	7391.6	6600.1	6025.7	5350.4	4734.2	4327.5
-5°	65463.1	36431.4	19827.6	10922.2	8574.2	7480.0	6740.5	6203.3	5462.5	4781.2	4300.8
-7.5°	56850.3	32625.5	17852.7	10574.0	8520.8	7512.4	6822.6	6292.6	5603.1	4928.6	4270.2
-10°	44881.9	26514.1	15016.7	10081.3	8409.2	7491.4	6871.8	6299.9	5656.8	5035.2	4166.6
-12.5°	35727.7	20757.3	12039.9	9375.7	8251.9	7447.2	6890.3	6254.3	5677.0	5133.3	4042.1
-15°	24930.2	15560.7	10845.3	9072.8	8099.9	7382.9	6854.1	6168.7	5655.8	5177.1	3811.2
-17.5°	17591.3	11888.7	9665.0	8621.7	7874.7	7316.5	6719.5	6103.4	5590.5	4941.8	3455.4
-20°	11995.1	10166.3	9148.6	8329.4	7669.1	7191.2	6541.1	6006.4	5462.2	4448.7	3195.0



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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°	10167.6	9341.8	8672.8	8031.2	7578.0	6977.1	6382.3	5860.3	5274.3	3889.9	2908.0
-25°	9239.2	8721.9	8248.9	7887.0	7396.9	6780.3	6235.8	5628.1	4637.4	3428.0	2643.6
-27.5°	8567.4	8214.8	8000.2	7651.4	7128.3	6593.6	6029.5	5275.5	3909.2	3052.5	2651.0
-30°	8083.4	7908.6	7682.8	7325.5	6850.2	6341.4	5789.6	4510.7	3412.2	2758.7	2641.4
-32.5°	7767.0	7581.9	7316.5	6947.9	6518.8	6045.2	4934.5	3790.7	2954.1	2740.1	2579.2
-35°	7472.3	7197.9	6846.4	6498.1	6163.6	5094.7	3997.7	3174.2	2834.1	2696.2	2494.5
-37.5°	7003.4	6673.5	6318.6	5895.4	4983.6	4024.3	3250.3	2910.8	2790.4	2599.8	2368.6
-40°	6355.6	6020.2	5364.6	4642.5	3891.7	3153.9	2957.8	2864.3	2680.7	2471.4	2216.7
-42.5°	5261.3	4649.6	4096.8	3522.5	3046.8	2977.9	2887.8	2728.9	2535.3	2296.6	2056.6
-45°	3912.1	3438.4	3035.4	3009.4	2967.0	2864.2	2734.6	2551.0	2339.2	2114.0	1886.9
-47.5°	2997.7	2964.4	2947.3	2893.0	2802.2	2686.1	2517.6	2336.3	2131.9	1925.0	1730.7
-50°	2889.9	2831.5	2770.6	2695.4	2569.0	2429.9	2275.5	2105.2	1925.3	1751.8	1568.5
-52.5°	2697.5	2605.0	2508.9	2409.3	2298.3	2173.3	2031.7	1890.8	1738.6	1569.8	1400.1
-55°	2386.2	2302.7	2221.4	2131.5	2034.1	1929.4	1814.6	1681.2	1531.7	1376.4	1232.2
-57.5°	2083.7	2007.0	1946.3	1874.0	1791.5	1692.3	1582.5	1452.7	1320.8	1190.8	1065.2
-60°	1812.2	1741.3	1684.8	1616.1	1536.2	1445.4	1348.4	1238.2	1118.7	1022.0	927.2
-62.5°	1537.5	1474.5	1417.2	1354.8	1285.0	1207.8	1126.0	1047.3	958.4	869.9	777.8
-65°	1256.0	1195.2	1145.6	1107.0	1057.5	1004.7	941.2	871.3	788.6	707.4	622.9
-67.5°	1005.7	960.6	925.1	891.2	848.0	799.6	741.1	678.4	618.3	558.6	492.4
-70°	773.9	737.9	704.1	669.2	637.0	605.6	566.2	521.3	470.8	431.3	395.4
-72.5°	570.6	547.7	524.2	500.9	474.6	456.2	436.8	412.6	385.0	354.5	328.2
-75°	435.4	422.8	410.2	399.4	386.9	372.9	360.9	347.2	332.5	316.1	299.8
-77.5°	366.1	358.0	350.4	345.3	339.6	332.5	323.8	312.6	301.2	287.6	274.2
-80°	327.4	320.9	314.6	310.0	304.9	298.9	292.2	282.8	272.9	261.5	250.2
-82.5°	293.0	287.7	282.4	277.9	273.3	268.5	263.2	255.1	246.7	236.9	227.1
-85°	261.1	256.6	252.0	248.3	244.5	240.4	235.9	228.8	221.5	213.3	205.1
-87.5°	234.7	230.8	226.8	223.4	220.0	215.9	211.9	205.9	199.9	193.5	187.2
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	167.3	160.0	154.6	149.2	143.2	137.2	130.6	123.9	115.5	107.1	96.9
87.5°	2.4	2.4	2.8	3.1	3.0	3.0	3.0	2.9	3.1	3.2	3.5
85°	2.8	2.8	3.1	3.6	3.6	3.6	3.5	3.4	3.8	4.0	4.1
82.5°	3.6	3.5	3.5	3.6	4.0	4.2	4.1	4.0	4.4	4.8	4.6
80°	4.1	4.3	4.1	4.0	4.4	4.8	4.6	4.5	4.9	5.3	5.2
77.5°	5.0	5.0	4.8	4.6	4.7	4.9	5.0	5.1	5.4	5.7	5.7
75°	6.0	5.6	5.0	5.0	5.1	5.0	5.4	5.7	6.1	6.2	6.3
72.5°	6.0	6.0	5.5	5.4	6.1	6.3	6.3	6.4	6.9	7.2	7.1
70°	9.1	7.1	6.6	6.9	7.3	7.8	7.9	8.0	7.8	8.3	8.3
67.5°	14.5	12.0	9.9	8.7	8.8	9.3	9.5	10.0	10.0	9.5	9.6
65°	28.0	20.2	14.2	12.5	11.1	11.0	11.2	12.2	12.3	12.0	11.0
62.5°	40.2	31.2	23.8	17.9	14.9	14.9	13.3	14.8	14.7	14.7	13.3
60°	51.1	41.7	34.5	28.4	22.9	20.1	19.0	17.6	18.0	17.6	16.2
57.5°	51.4	50.7	47.5	40.2	35.1	29.3	26.3	23.9	21.7	21.4	19.1
55°	52.3	53.0	59.3	55.0	49.8	42.0	36.7	32.3	27.1	25.7	22.3
52.5°	62.5	64.3	69.3	72.7	68.8	58.1	52.4	41.4	37.3	30.4	26.7
50°	80.2	86.4	87.1	93.3	90.1	83.1	69.5	58.3	48.5	37.2	31.5
47.5°	125.1	130.8	119.8	122.7	117.1	111.9	95.6	78.5	60.5	48.4	36.4
45°	238.0	204.7	185.5	169.5	155.0	148.9	127.0	100.9	81.2	60.2	41.6
42.5°	385.7	335.8	297.0	225.6	217.3	192.4	164.8	135.3	103.5	72.6	50.1
40°	594.0	498.8	432.8	356.8	294.1	241.7	213.6	174.0	127.3	88.1	61.2
37.5°	790.2	668.5	584.7	492.3	390.9	322.1	267.2	215.5	155.6	109.9	72.5
35°	947.9	827.1	713.6	618.2	515.4	402.8	324.8	261.9	192.1	132.6	84.1
32.5°	1091.0	962.6	833.9	726.4	614.8	481.4	392.0	307.9	228.8	156.1	96.2
30°	1217.8	1095.0	948.4	815.3	696.6	563.8	455.5	350.9	265.6	180.3	110.2
27.5°	1356.1	1232.3	1064.6	911.8	768.7	635.4	506.3	390.9	302.3	204.8	128.6
25°	1486.2	1360.2	1194.0	1020.1	841.5	692.5	553.5	428.2	336.6	229.7	145.9
22.5°	1573.3	1468.0	1312.9	1134.8	921.8	748.2	599.8	468.8	359.9	252.4	162.2
20°	1643.6	1562.7	1417.9	1221.5	1009.0	814.1	646.0	501.5	381.5	273.0	177.4
17.5°	1743.8	1639.2	1492.5	1294.4	1089.1	880.5	690.6	532.3	401.4	291.4	191.4
15°	1990.2	1706.2	1564.9	1362.9	1150.9	937.1	734.0	561.4	419.5	307.7	204.1
12.5°	2245.7	1771.3	1635.0	1422.3	1196.4	985.5	775.7	588.5	435.6	324.2	215.4
10°	2485.6	1828.0	1700.2	1476.5	1236.0	1026.2	814.9	618.2	459.7	341.2	225.5
7.5°	2688.4	1879.7	1761.6	1525.4	1271.8	1062.9	854.5	655.3	484.1	356.8	234.5
5°	2859.7	1927.2	1821.2	1585.9	1314.2	1096.8	889.5	689.7	506.8	370.9	242.2
2.5°	2976.4	1970.2	1874.8	1642.2	1351.3	1125.0	919.4	720.9	527.7	383.1	248.7
0°	3053.7	2009.3	1920.3	1690.5	1382.4	1147.8	944.5	748.4	546.2	393.4	253.9
-2.5°	3078.0	2050.1	1957.6	1731.4	1432.2	1178.1	962.9	761.2	558.8	405.0	262.5
-5°	3060.6	2087.7	1988.0	1764.0	1473.8	1202.4	976.5	769.9	568.6	414.2	269.7
-7.5°	3008.4	2130.1	2013.3	1788.3	1505.9	1219.9	985.0	774.5	575.6	421.0	275.3
-10°	2919.2	2172.5	2033.7	1797.5	1510.8	1229.0	988.9	775.2	579.9	425.2	279.1
-12.5°	2807.0	2211.3	2046.3	1795.9	1504.9	1230.9	992.4	773.4	581.2	426.8	281.2
-15°	2663.5	2260.4	2062.4	1784.7	1491.5	1227.1	989.4	767.5	577.6	424.3	281.4
-17.5°	2475.5	2306.0	2072.7	1770.3	1473.2	1217.7	979.4	756.2	570.8	417.4	278.9
-20°	2470.7	2325.8	2067.1	1742.7	1447.0	1200.7	962.4	739.2	560.7	408.0	274.1



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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°	2505.1	2317.7	2034.6	1706.1	1415.8	1176.5	939.9	717.1	547.4	396.2	267.7
-25°	2524.1	2302.2	1989.2	1666.7	1383.6	1145.9	913.5	693.8	530.7	381.9	259.6
-27.5°	2493.3	2255.9	1929.9	1614.0	1346.9	1109.4	883.0	677.2	515.5	365.2	249.8
-30°	2440.6	2168.4	1857.3	1552.9	1299.6	1067.2	847.1	657.1	498.8	351.6	238.4
-32.5°	2362.1	2074.3	1775.3	1494.4	1245.6	1018.7	806.3	633.0	479.3	340.0	230.9
-35°	2238.3	1968.3	1687.4	1428.4	1185.7	969.1	767.5	605.1	457.2	325.4	224.6
-37.5°	2104.6	1846.6	1606.2	1356.8	1123.1	915.1	733.2	575.6	432.4	307.8	217.4
-40°	1964.6	1723.6	1501.6	1279.5	1058.6	856.8	694.0	542.4	408.2	287.1	208.7
-42.5°	1817.8	1603.2	1393.6	1189.4	988.4	807.7	650.0	503.9	379.2	271.7	198.5
-45°	1680.5	1477.1	1279.4	1094.2	913.5	753.0	601.2	461.4	347.0	258.3	190.8
-47.5°	1536.0	1346.1	1164.7	992.8	845.2	692.1	546.3	422.0	312.4	242.9	187.8
-50°	1387.2	1212.9	1047.7	900.8	765.7	624.4	489.0	379.4	291.7	224.8	184.1
-52.5°	1236.4	1078.8	938.4	809.4	679.9	550.6	436.0	335.4	269.5	214.9	179.6
-55°	1084.1	956.3	834.8	711.4	589.2	481.7	378.7	307.5	245.7	208.2	174.8
-57.5°	953.6	840.5	723.0	607.5	505.8	411.6	335.9	278.2	233.8	201.1	171.4
-60°	824.2	712.9	604.5	513.5	426.9	354.9	301.7	253.8	224.9	193.9	167.3
-62.5°	679.5	583.8	503.2	424.1	363.8	313.8	270.1	241.8	215.1	188.1	162.6
-65°	547.7	474.4	405.8	360.5	315.5	277.7	254.7	228.9	206.3	181.8	157.5
-67.5°	426.2	386.6	346.5	305.8	281.3	260.4	238.6	218.1	197.6	175.0	152.4
-70°	358.4	322.3	298.8	280.4	262.1	243.2	226.2	208.1	188.6	168.3	146.8
-72.5°	310.1	292.8	275.9	259.3	244.5	229.2	214.0	197.7	179.8	161.3	141.0
-75°	283.8	269.2	255.2	241.5	228.1	214.8	201.5	186.9	170.5	153.9	134.7
-77.5°	261.1	248.1	235.6	223.8	212.7	201.3	188.8	175.6	160.9	145.8	128.1
-80°	238.9	227.8	217.5	207.4	197.6	187.6	175.9	164.2	150.9	137.4	121.2
-82.5°	217.3	207.7	199.1	190.4	181.6	172.6	162.6	152.6	140.7	128.6	114.6
-85°	196.6	188.0	180.4	172.8	165.1	157.4	149.8	141.9	131.8	121.5	108.9
-87.5°	179.8	172.3	166.3	160.2	153.8	147.3	140.2	133.0	123.7	114.4	102.9
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	86.6	72.8	59.0	42.7	26.5	15.0	3.6
87.5°	3.9	4.0	4.0	3.9	3.8	3.9	3.6
85°	4.2	4.4	4.4	4.2	4.0	4.2	3.6
82.5°	4.6	4.8	4.8	4.5	4.2	4.5	3.6
80°	4.9	5.2	5.3	4.8	4.5	4.8	3.6
77.5°	5.6	5.7	5.7	5.2	4.7	5.0	3.6
75°	6.3	6.4	6.1	5.5	5.0	5.3	3.6
72.5°	7.0	7.1	6.8	5.8	5.3	5.6	3.6
70°	7.8	7.8	7.5	6.1	5.6	5.9	3.6
67.5°	9.3	8.5	8.2	6.8	5.9	6.2	3.6
65°	10.8	9.7	8.9	7.6	6.3	6.6	3.6
62.5°	12.4	11.3	9.7	8.3	6.7	6.9	3.6
60°	14.2	13.0	10.5	9.0	7.1	7.2	3.6
57.5°	16.8	14.7	12.1	9.8	7.9	7.5	3.6
55°	19.7	16.4	13.8	10.6	8.8	7.8	3.6
52.5°	22.6	18.4	15.5	11.4	9.6	8.1	3.6
50°	25.5	21.1	17.3	12.2	10.5	8.5	3.6
47.5°	28.7	23.9	19.1	13.1	11.4	8.8	3.6
45°	33.1	26.8	20.9	14.5	12.3	9.1	3.6
42.5°	37.7	29.8	22.8	15.9	13.2	9.5	3.6
40°	42.7	32.9	24.9	17.7	14.2	9.8	3.6
37.5°	48.1	36.1	27.4	19.7	15.2	10.1	3.6
35°	53.7	40.1	29.8	21.7	16.1	10.5	3.6
32.5°	60.7	44.5	32.3	23.7	17.1	10.8	3.6
30°	70.6	49.0	34.7	25.7	18.1	11.1	3.6
27.5°	80.5	53.4	37.8	27.7	19.1	11.5	3.6
25°	90.2	57.8	40.9	29.7	20.1	11.8	3.6
22.5°	99.6	62.2	44.0	31.6	21.1	12.1	3.6
20°	108.7	66.8	47.0	33.5	22.1	12.4	3.6
17.5°	117.3	71.1	50.0	35.4	23.0	12.7	3.6
15°	125.1	75.3	52.8	37.3	24.0	13.0	3.6
12.5°	132.3	79.2	55.5	39.1	24.9	13.3	3.6
10°	138.9	82.9	58.2	40.8	25.8	13.5	3.6
7.5°	144.9	86.3	60.7	42.4	26.6	13.8	3.6
5°	150.2	89.5	63.1	44.0	27.4	14.0	3.6
2.5°	154.9	92.4	65.3	45.5	28.2	14.2	3.6
0°	158.8	95.1	67.4	46.9	28.9	14.4	3.6
-2.5°	163.9	99.1	70.4	49.0	30.2	15.0	3.6
-5°	168.2	102.8	73.2	51.0	31.4	15.6	3.6
-7.5°	171.8	106.2	75.9	52.8	32.6	16.1	3.6
-10°	174.5	109.3	78.3	54.6	33.7	16.6	3.6
-12.5°	176.3	112.1	80.6	56.2	34.7	17.1	3.6
-15°	177.3	114.5	82.6	57.6	35.7	17.6	3.6
-17.5°	177.4	116.6	84.5	59.0	36.6	18.0	3.6
-20°	176.8	118.3	86.1	60.2	37.4	18.4	3.6



REPORT NUMBER: P701710 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	175.4	119.6	87.5	61.2	38.1	18.8	3.6
-25°	173.1	120.9	88.6	62.1	38.7	19.1	3.6
-27.5°	169.9	121.8	89.5	62.8	39.3	19.5	3.6
-30°	165.8	122.5	90.2	63.4	39.8	19.7	3.6
-32.5°	160.7	122.8	91.1	63.8	40.1	20.0	3.6
-35°	158.9	122.7	91.8	64.0	40.4	20.1	3.6
-37.5°	158.4	122.6	92.2	64.1	40.6	20.3	3.6
-40°	157.5	122.8	92.4	64.0	40.8	20.4	3.6
-42.5°	156.1	122.7	92.4	63.9	40.8	20.5	3.6
-45°	154.2	122.4	92.3	63.8	40.7	20.5	3.6
-47.5°	151.6	121.7	91.9	63.5	40.5	20.5	3.6
-50°	149.9	120.8	91.3	63.4	40.3	20.5	3.6
-52.5°	148.0	119.6	90.4	63.1	39.9	20.4	3.6
-55°	145.7	117.8	89.3	62.7	39.5	20.3	3.6
-57.5°	143.0	115.7	87.9	62.1	39.0	20.1	3.6
-60°	139.9	113.3	86.3	61.4	38.4	20.0	3.6
-62.5°	136.6	110.7	85.0	60.5	37.8	19.7	3.6
-65°	133.0	107.7	83.5	59.4	37.2	19.5	3.6
-67.5°	129.1	104.8	81.7	58.2	36.4	19.2	3.6
-70°	124.8	101.9	79.8	56.8	35.6	18.8	3.6
-72.5°	120.4	98.6	77.6	55.5	34.7	18.5	3.6
-75°	115.7	95.1	75.2	54.0	33.7	18.1	3.6
-77.5°	110.7	91.4	72.9	52.4	32.7	17.6	3.6
-80°	105.4	87.8	70.4	50.7	31.5	17.2	3.6
-82.5°	100.8	84.3	67.8	48.9	30.4	16.7	3.6
-85°	96.3	80.6	65.0	46.9	29.1	16.2	3.6
-87.5°	91.5	76.8	62.1	44.9	27.8	15.6	3.6
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6

(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

