

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: P701610 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-2S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701610 (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-40-70-2S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

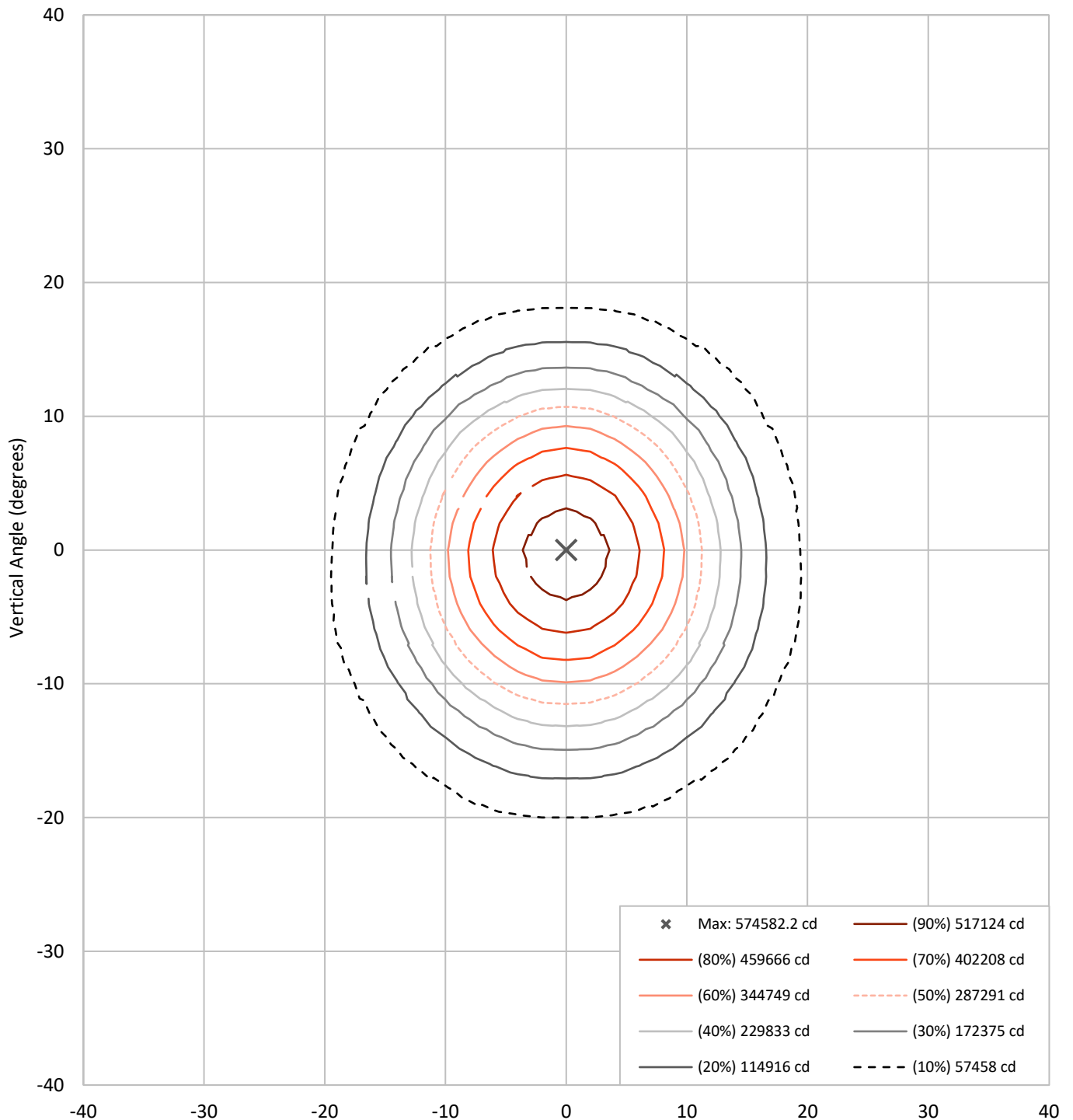
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	100428.4 lumens	Max Intensity:	574582.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	142.7 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:	46928.6 lumens	Field Lumens:	83602.2 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





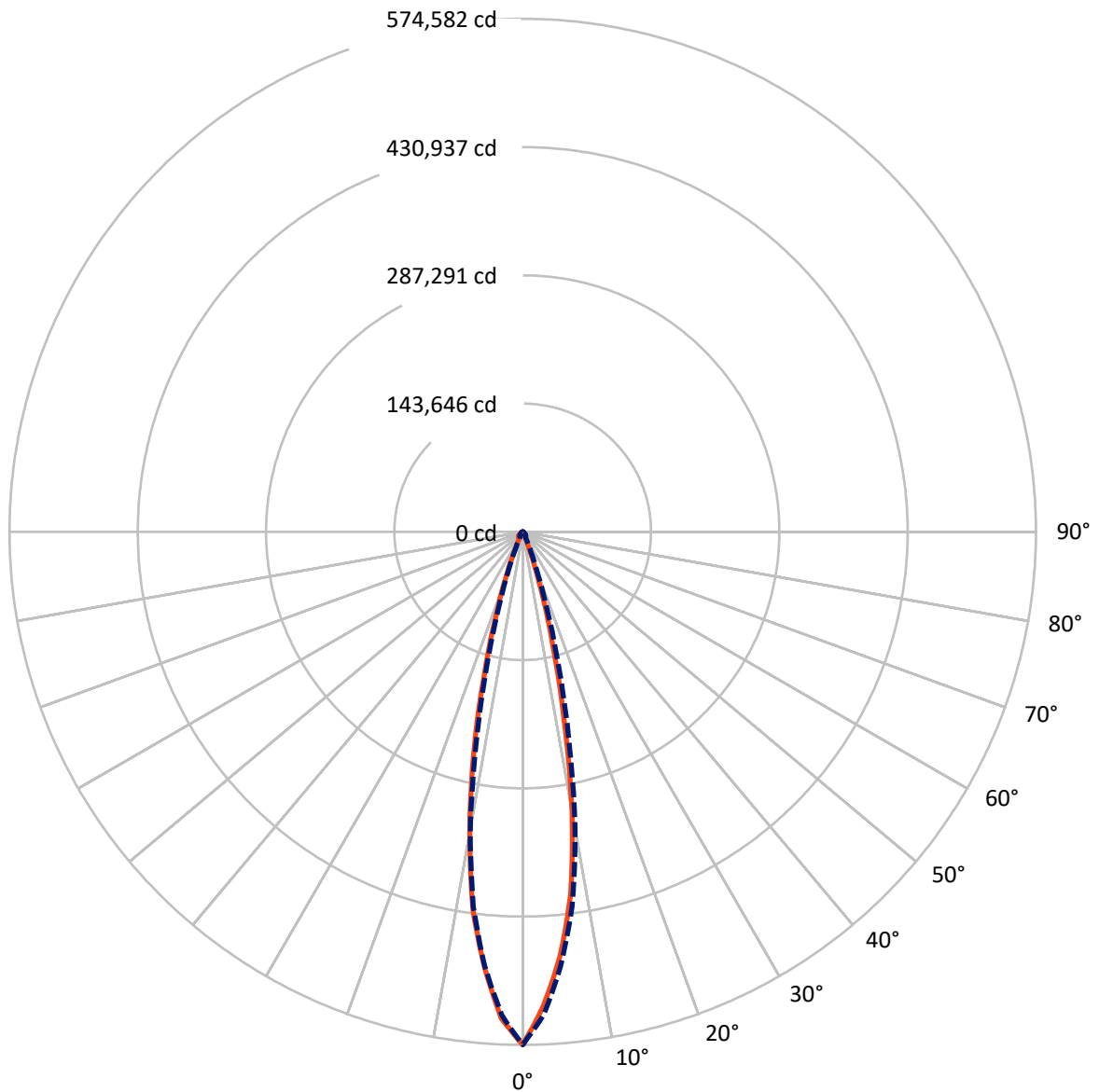
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Lumen Table

90	0.2	0.8		1.5		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	3.0	6.0	10.5	17.3	26.5	31.2	31.2	26.5	17.3	10.5	6.0	3.0	1.2	0.8		
40		3.1	9.9	19.1	37.4	65.1	79.1	87.7	87.7	79.1	65.1	37.4	19.1	9.9	3.1			
30	2.0	5.4	16.4	34.9	85.3	99.3	136.9	250.2	250.2	136.9	99.3	85.3	34.9	16.4	5.4	2.0		
20		7.2	21.3	61.2	120.3	176.8	1121.4	3616.9	3616.9	1121.4	176.8	120.3	61.2	21.3	7.2			
10	2.9	8.7	24.6	79.9	137.8	395.3	3972.7	11942.5	11942.5	3972.7	395.3	137.8	79.9	24.6	8.7	2.9		
0		9.5	27.1	84.4	151.6	453.3	4326.5	12419.8	12419.8	4326.5	453.3	151.6	84.4	27.1	9.5			
-10	3.1	9.6	28.3	81.3	159.5	259.4	1585.6	4645.1	4645.1	1585.6	259.4	159.5	81.3	28.3	9.6	3.1		
-20		8.9	27.8	62.1	150.4	206.3	286.6	573.1	573.1	286.6	206.3	150.4	62.1	27.8	8.9			
-30	2.6	7.5	24.3	48.6	105.2	185.2	217.0	227.5	227.5	217.0	185.2	105.2	48.6	24.3	7.5	2.6		
-40		5.7	18.4	39.3	62.7	96.4	146.7	184.1	184.1	146.7	96.4	62.7	39.3	18.4	5.7			
-50	2.1	3.7	11.7	25.8	43.9	59.5	70.9	78.3	78.3	70.9	59.5	43.9	25.8	11.7	3.7	2.1		
-60		2.5	5.9	12.9	22.4	31.5	39.6	44.6	44.6	39.6	31.5	22.4	12.9	5.9	2.5			
-70	1.5	1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5
-80		1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5
-90	1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5	9.2	22.3	37.2	45.5	37.2	22.3	9.2	1.5	

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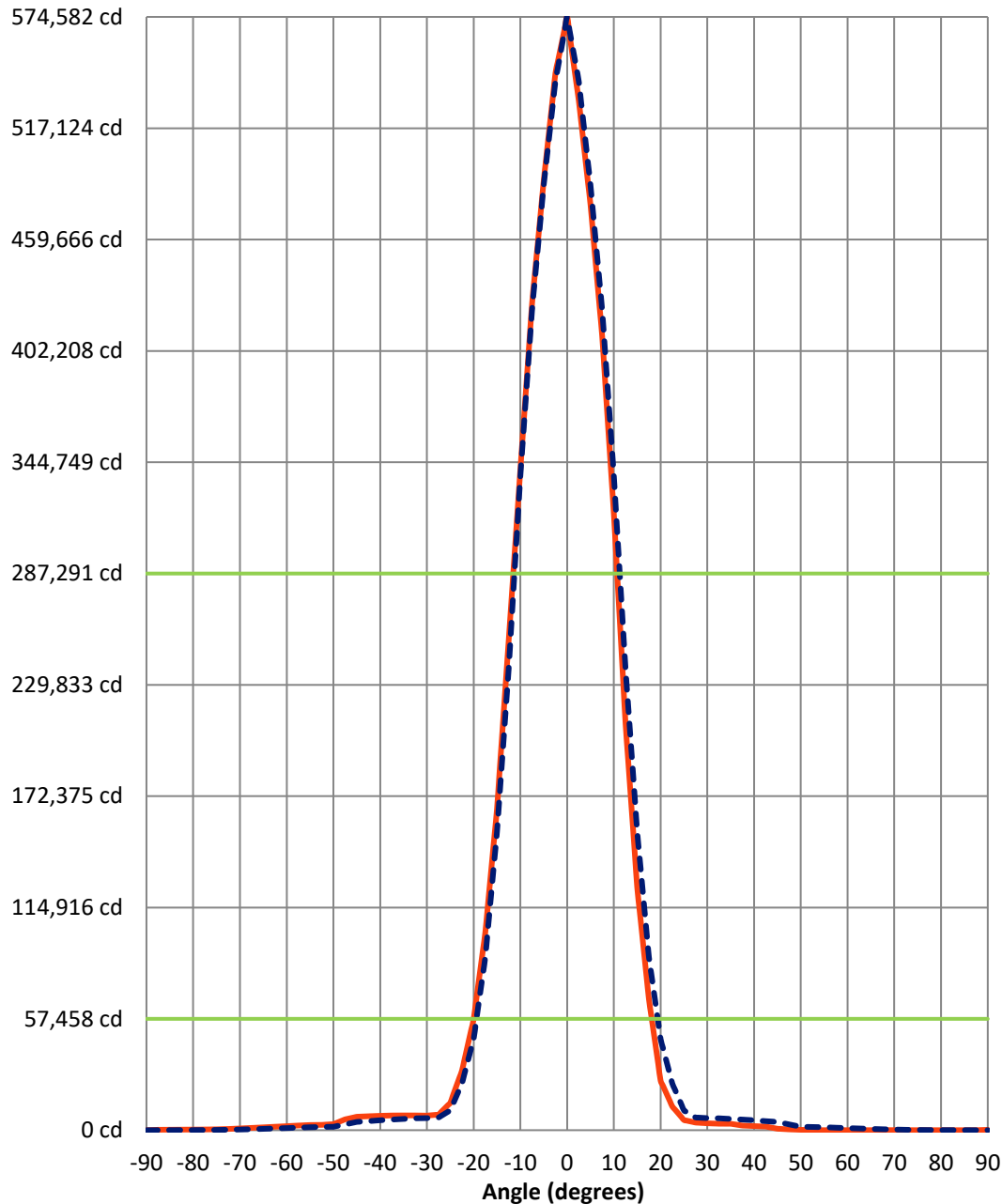
Luminous Intensity Polar Plot



— 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: 46928.6
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 83602.2
 Efficiency: 83.2%

Spill:
 Lumens: 16826.2
 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°	5.9	12.3	18.8	32.2	45.7	57.4	69.2	78.0	86.8	93.8	100.8
87.5°	5.9	6.1	6.1	6.1	6.1	6.1	6.2	6.1	5.9	5.9	5.9
85°	5.9	6.2	6.3	6.3	6.3	6.4	6.5	6.2	5.9	5.9	5.9
82.5°	5.9	6.4	6.5	6.6	6.5	6.6	6.8	6.4	6.0	6.2	6.2
80°	5.9	6.5	6.7	6.8	6.7	6.8	7.0	6.8	6.8	6.8	6.7
77.5°	5.9	6.7	6.9	7.0	6.9	7.1	7.4	7.4	7.5	7.5	7.2
75°	5.9	6.8	7.1	7.3	7.2	7.5	7.7	7.9	8.2	8.1	7.8
72.5°	5.9	7.0	7.3	7.5	7.6	8.0	8.1	8.3	8.7	8.6	8.4
70°	5.9	7.1	7.6	7.8	8.0	8.4	8.5	8.9	9.2	9.1	9.0
67.5°	5.9	7.3	7.8	8.1	8.4	8.8	9.2	9.6	9.8	9.9	9.7
65°	5.9	7.4	8.0	8.4	8.9	9.4	9.9	10.2	11.0	10.8	10.8
62.5°	5.9	7.6	8.3	8.7	9.3	10.1	10.6	11.5	12.3	12.0	12.6
60°	5.9	7.7	8.5	9.0	9.7	10.8	11.4	13.1	13.8	14.5	14.7
57.5°	5.9	7.9	8.8	9.3	10.5	11.5	13.3	14.9	16.7	17.4	19.7
55°	5.9	8.0	9.2	9.6	11.3	12.3	15.5	17.1	20.1	21.7	26.4
52.5°	5.9	8.2	9.6	9.9	12.2	13.3	17.8	20.7	23.8	29.9	33.7
50°	5.9	8.3	10.0	10.2	13.1	15.7	20.3	24.7	29.1	38.8	48.2
47.5°	5.9	8.5	10.4	10.7	14.1	18.3	23.1	28.8	38.1	48.5	65.5
45°	5.9	8.6	10.9	11.5	15.2	21.0	26.8	33.1	48.1	65.8	84.3
42.5°	5.9	8.8	11.4	12.3	16.3	23.7	30.6	40.4	58.7	84.5	114.7
40°	5.9	8.9	11.9	13.4	18.0	26.5	34.7	50.1	72.4	104.4	149.2
37.5°	5.9	9.0	12.4	14.8	20.2	29.4	39.1	60.1	91.8	130.1	186.1
35°	5.9	9.2	12.9	16.3	22.4	32.8	43.6	70.4	112.1	164.6	227.4
32.5°	5.9	9.3	13.5	17.8	24.6	36.3	49.4	81.1	133.4	199.6	271.3
30°	5.9	9.5	14.1	19.3	26.8	39.9	58.1	93.4	155.5	235.0	313.1
27.5°	5.9	9.6	14.7	20.8	29.7	43.5	66.7	109.7	178.2	270.7	352.6
25°	5.9	9.7	15.3	22.4	32.5	47.0	75.2	125.1	201.9	304.5	390.2
22.5°	5.9	9.8	15.9	24.0	35.3	50.6	83.4	139.6	223.8	327.4	430.9
20°	5.9	9.9	16.6	25.6	37.9	54.4	91.5	153.1	243.8	348.6	462.6
17.5°	5.9	10.0	17.2	27.3	40.5	58.1	98.8	165.7	261.8	368.1	492.6
15°	5.9	10.1	17.8	28.8	42.9	61.5	105.4	176.7	278.0	385.8	521.4
12.5°	5.9	10.2	18.4	30.4	45.2	64.9	111.4	186.1	293.3	401.6	548.6
10°	5.9	10.3	19.0	31.9	47.5	68.0	116.9	194.5	307.8	421.3	576.8
7.5°	5.9	10.4	19.6	33.4	49.6	71.0	121.7	201.8	320.8	440.4	608.8
5°	5.9	10.5	20.1	34.9	51.5	73.7	125.9	207.9	332.2	457.8	638.2
2.5°	5.9	10.5	20.6	36.2	53.4	76.3	129.5	213.0	341.8	473.4	664.5
0°	5.9	10.6	21.1	37.5	55.1	78.6	132.5	216.9	349.5	486.7	687.2
-2.5°	5.9	11.1	22.2	39.2	57.5	81.9	136.7	224.8	360.1	500.7	699.1
-5°	5.9	11.5	23.3	40.7	59.8	84.9	140.3	231.4	368.6	512.1	707.1
-7.5°	5.9	11.9	24.3	42.2	61.9	87.7	143.2	236.6	374.7	520.8	711.4
-10°	5.9	12.4	25.2	43.5	63.9	90.2	145.4	240.1	378.3	526.5	712.2
-12.5°	5.9	12.8	26.2	44.7	65.6	92.4	146.9	242.0	379.5	528.9	711.3
-15°	5.9	13.1	27.0	45.9	67.2	94.3	147.6	242.0	376.7	524.6	706.4
-17.5°	5.9	13.5	27.8	46.9	68.7	95.9	147.6	239.5	369.7	517.3	695.9
-20°	5.9	13.8	28.5	47.8	69.9	97.2	147.0	234.9	360.4	506.8	679.6



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.9	14.2	29.1	48.6	70.9	98.2	145.9	228.8	348.8	493.1	658.0
-25°	5.9	14.5	29.7	49.3	71.7	99.1	143.9	221.2	334.8	476.2	636.8
-27.5°	5.9	14.7	30.2	49.9	72.3	99.8	141.0	212.0	318.5	462.3	621.8
-30°	5.9	15.0	30.6	50.3	72.7	100.1	137.3	201.2	305.5	446.7	603.1
-32.5°	5.9	15.2	30.9	50.6	73.3	100.1	132.7	194.5	294.5	427.6	580.4
-35°	5.9	15.4	31.1	50.8	73.6	99.7	130.8	188.7	280.9	405.2	553.6
-37.5°	5.9	15.5	31.3	50.9	73.8	99.4	130.1	182.1	264.5	379.4	524.5
-40°	5.9	15.7	31.4	50.9	73.7	99.3	128.9	174.0	245.4	356.0	491.9
-42.5°	5.9	15.8	31.4	50.8	73.7	99.0	127.4	164.3	231.0	331.1	454.9
-45°	5.9	15.8	31.3	50.8	73.6	98.5	125.3	156.8	218.0	302.8	414.9
-47.5°	5.9	15.9	31.1	50.6	73.4	97.7	122.8	153.8	203.1	271.6	379.1
-50°	5.9	15.9	30.8	50.4	72.9	96.7	121.2	150.2	186.2	252.1	339.6
-52.5°	5.9	15.9	30.4	50.0	72.3	95.4	119.5	146.1	177.4	230.8	297.4
-55°	5.9	15.8	30.0	49.5	71.5	94.1	117.4	141.7	171.8	207.6	269.2
-57.5°	5.9	15.7	29.5	48.8	70.4	92.5	115.1	138.8	165.5	196.3	239.4
-60°	5.9	15.6	28.9	48.1	69.2	90.7	112.4	135.5	159.2	188.2	215.0
-62.5°	5.9	15.5	28.4	47.1	67.9	88.6	109.7	131.8	154.6	179.1	204.0
-65°	5.9	15.3	27.8	46.1	66.4	86.3	106.5	127.7	149.5	171.4	192.3
-67.5°	5.9	15.1	27.2	44.9	64.6	83.7	103.1	123.4	143.9	164.0	182.6
-70°	5.9	14.9	26.5	43.6	62.7	81.0	99.4	118.7	138.4	156.3	173.5
-72.5°	5.9	14.6	25.7	42.5	60.7	78.0	95.6	113.8	132.6	148.9	164.3
-75°	5.9	14.4	24.9	41.3	58.5	74.9	91.6	108.6	126.4	141.3	155.3
-77.5°	5.9	14.1	24.0	40.0	56.5	71.6	87.3	103.2	119.7	133.2	146.1
-80°	5.9	13.8	23.0	38.6	54.6	68.7	82.9	97.5	112.7	124.5	136.2
-82.5°	5.9	13.4	22.0	37.2	52.6	66.1	79.5	92.1	105.3	115.6	125.9
-85°	5.9	13.1	21.0	35.6	50.4	63.3	76.2	87.6	99.3	107.9	116.4
-87.5°	5.9	12.7	19.9	34.0	48.1	60.4	72.8	82.9	93.1	100.9	108.7
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



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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°	106.1	111.4	116.1	120.8	126.1	131.3	137.2	143.1	149.0	154.8	159.5
87.5°	5.6	5.3	5.3	5.4	5.1	4.7	4.7	4.7	4.1	3.5	3.5
85°	5.9	5.9	5.9	5.9	5.4	5.1	4.9	4.7	4.4	4.1	4.2
82.5°	6.3	6.4	6.3	5.9	5.8	5.8	5.4	4.9	5.0	5.1	4.9
80°	6.8	7.0	6.6	6.3	6.2	6.0	5.7	5.7	5.8	5.9	5.5
77.5°	7.2	7.1	6.9	6.9	6.6	6.2	6.3	6.5	6.4	6.0	5.9
75°	7.6	7.2	7.2	7.1	6.9	6.9	7.0	7.0	6.8	6.6	6.5
72.5°	8.1	7.8	7.6	7.3	7.2	7.1	7.0	7.0	8.1	9.8	11.0
70°	8.7	8.5	8.3	8.0	7.8	7.8	9.2	11.9	14.8	17.0	20.1
67.5°	9.4	9.3	9.0	9.0	9.5	10.9	13.0	20.8	28.6	31.4	32.8
65°	10.5	10.3	10.3	11.0	11.6	17.5	25.3	34.4	44.1	46.0	44.1
62.5°	11.8	13.1	12.7	14.7	20.1	27.3	37.1	47.6	58.6	56.1	46.7
60°	16.2	17.0	18.8	23.4	29.4	37.6	48.6	53.0	57.6	58.5	45.4
57.5°	21.8	24.2	28.6	33.3	41.4	46.0	47.6	47.7	54.4	54.9	41.7
55°	30.3	34.5	41.2	46.8	51.9	46.9	46.9	51.2	53.5	49.5	37.0
52.5°	43.6	48.0	58.4	62.7	60.0	55.8	54.7	58.5	56.4	50.3	42.8
50°	58.4	70.9	77.9	81.3	74.8	74.0	67.9	71.4	73.5	70.3	73.5
47.5°	82.2	97.5	103.1	108.2	102.9	108.6	102.8	119.6	120.0	161.3	166.1
45°	111.2	131.8	138.4	150.3	159.4	164.7	197.3	199.5	287.2	321.7	395.6
42.5°	145.2	171.9	195.3	201.2	256.5	282.9	329.1	413.7	494.7	564.3	603.8
40°	188.6	217.2	266.0	320.6	383.4	445.2	514.1	613.5	699.0	736.6	756.4
37.5°	236.3	291.3	356.2	447.5	540.8	611.9	693.7	787.1	844.0	863.9	868.5
35°	287.5	366.7	475.5	571.3	671.3	766.7	843.1	932.4	951.5	967.4	1055.3
32.5°	349.8	442.1	570.5	678.0	779.2	888.5	965.8	1018.5	1049.0	1107.1	1393.7
30°	412.3	520.5	647.6	761.8	879.9	983.8	1057.4	1108.7	1143.4	1417.5	2012.7
27.5°	463.5	588.0	714.2	846.9	977.4	1081.6	1152.3	1199.1	1401.4	1855.7	2772.2
25°	510.1	640.9	780.9	941.0	1078.2	1174.6	1247.2	1293.4	1746.1	2673.9	3309.5
22.5°	553.8	692.2	856.2	1040.3	1178.5	1260.5	1330.2	1580.9	2266.5	3502.9	3844.8
20°	596.5	753.7	938.1	1124.5	1272.6	1333.3	1406.4	1903.2	2935.8	3822.0	4196.5
17.5°	640.7	816.9	1015.3	1189.2	1321.6	1398.2	1515.4	2215.8	3500.9	4101.4	4372.3
15°	685.0	876.5	1078.2	1246.2	1369.9	1461.8	1764.7	2663.7	3851.0	4408.4	4663.6
12.5°	728.4	928.7	1125.5	1295.0	1420.5	1522.1	1992.8	3126.7	4167.3	4709.8	5047.5
10°	770.1	973.8	1166.0	1342.3	1470.0	1580.6	2223.1	3579.4	4453.0	4906.4	5189.5
7.5°	806.5	1010.6	1201.0	1387.5	1516.3	1638.1	2475.7	3879.7	4574.5	5031.3	5261.4
5°	837.7	1039.7	1236.4	1437.9	1564.3	1691.0	2705.1	4077.7	4620.8	5108.4	5336.6
2.5°	863.9	1063.1	1267.0	1485.3	1611.5	1735.7	2865.9	4203.2	4652.2	5137.9	5410.4
0°	885.4	1081.2	1292.3	1526.8	1654.6	1775.4	2985.6	4263.8	4662.5	5126.8	5479.8
-2.5°	899.3	1107.7	1339.1	1566.9	1689.9	1808.7	2980.6	4299.4	4675.3	5186.1	5747.8
-5°	908.6	1128.3	1378.4	1600.7	1721.9	1838.0	2929.6	4273.4	4703.5	5276.1	5922.9
-7.5°	913.3	1142.2	1408.7	1628.0	1752.1	1870.8	2866.7	4213.3	4848.0	5461.2	6032.9
-10°	914.8	1150.4	1414.8	1641.1	1780.1	1903.1	2762.8	4086.9	4962.1	5538.7	6064.8
-12.5°	920.9	1154.3	1411.5	1646.5	1803.9	1932.6	2634.5	4003.3	5115.6	5586.5	6053.2
-15°	920.3	1152.9	1402.1	1644.9	1833.0	1972.0	2463.9	3805.8	5209.1	5597.2	6022.1
-17.5°	912.6	1146.3	1387.7	1639.3	1860.7	2001.6	2223.3	3399.5	4941.9	5549.8	5985.2
-20°	897.3	1131.9	1367.4	1621.5	1876.0	2028.9	2194.6	3043.7	4392.1	5424.3	5915.8



REPORT NUMBER: P701610 (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°	875.3	1110.9	1342.6	1591.7	1868.7	2059.9	2214.6	2697.7	3849.0	5238.3	5803.3
-25°	849.6	1081.4	1313.9	1575.6	1857.9	2089.5	2218.8	2376.1	3376.5	4622.4	5609.4
-27.5°	821.2	1045.1	1282.4	1541.5	1841.2	2084.2	2217.1	2365.6	2873.4	3864.8	5300.7
-30°	788.2	1004.3	1238.8	1491.9	1781.8	2028.1	2211.8	2334.7	2489.8	3270.6	4495.2
-32.5°	751.7	958.2	1186.9	1435.7	1705.5	1965.5	2181.2	2309.9	2446.0	2713.4	3700.5
-35°	716.0	913.6	1129.7	1371.1	1627.5	1880.4	2101.1	2283.8	2398.1	2548.4	2999.0
-37.5°	682.8	863.7	1067.0	1300.4	1548.5	1774.8	2013.5	2211.5	2367.9	2476.9	2659.2
-40°	644.4	807.9	1002.8	1221.3	1444.1	1659.6	1886.6	2109.3	2301.5	2445.0	2553.7
-42.5°	601.2	757.5	933.8	1127.9	1333.9	1538.9	1753.6	1974.2	2185.1	2374.3	2509.0
-45°	554.5	701.2	859.9	1036.1	1218.9	1414.3	1618.7	1827.5	2036.8	2245.5	2411.6
-47.5°	500.3	639.3	789.9	938.1	1106.6	1286.1	1476.2	1672.3	1866.0	2067.4	2258.6
-50°	444.0	572.5	710.0	846.7	993.0	1155.3	1329.3	1512.6	1696.3	1882.2	2066.4
-52.5°	392.9	499.6	626.3	755.2	884.5	1023.3	1180.7	1347.9	1521.2	1696.6	1857.8
-55°	338.4	434.4	538.5	659.2	780.5	901.1	1029.2	1180.4	1337.4	1500.2	1644.7
-57.5°	296.4	368.7	458.5	558.3	671.1	785.3	897.6	1011.2	1151.5	1296.1	1417.7
-60°	261.6	313.7	382.5	466.9	556.6	662.2	767.8	873.4	981.8	1085.4	1197.6
-62.5°	229.6	272.2	320.6	379.5	457.5	539.0	632.7	730.0	829.3	918.6	1001.1
-65°	215.9	236.3	272.6	316.7	361.4	431.0	506.0	582.6	668.8	747.9	822.3
-67.5°	201.4	220.2	239.1	262.3	302.4	343.6	385.0	452.7	520.2	581.4	642.1
-70°	189.7	204.2	220.9	237.8	255.2	278.9	315.8	354.1	392.3	434.6	485.8
-72.5°	178.3	191.3	204.7	217.8	233.3	249.6	266.6	283.9	310.4	342.9	372.2
-75°	167.3	178.2	190.1	202.3	214.5	226.9	240.6	256.6	272.5	288.3	303.1
-77.5°	156.8	166.7	176.6	186.9	197.4	208.5	220.5	233.1	246.1	259.2	270.7
-80°	145.6	155.0	163.5	172.2	181.7	191.2	201.3	211.7	223.1	235.0	245.4
-82.5°	133.7	141.4	149.2	156.9	165.7	174.4	183.0	191.7	201.1	210.7	219.3
-85°	122.2	127.6	134.4	141.1	148.9	156.7	164.0	171.4	179.5	187.7	194.4
-87.5°	114.2	119.6	124.9	130.2	136.3	142.6	148.6	154.6	161.4	168.2	173.4
-90°	5.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	164.2	167.7	171.2	173.0	174.7	178.3	181.8	187.1	192.3	198.2	204.0
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°	4.3	4.3	4.4	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.3
82.5°	4.7	4.7	4.7	4.5	4.4	4.0	3.5	3.5	3.5	3.5	3.4
80°	5.1	5.0	4.7	4.7	4.7	4.5	4.4	4.0	3.5	4.0	4.6
77.5°	5.9	5.5	5.2	5.0	4.8	4.4	3.9	3.7	3.5	3.6	3.6
75°	6.1	6.2	7.0	7.2	7.0	6.3	5.4	5.2	5.4	5.1	4.7
72.5°	12.0	12.6	12.9	14.0	14.6	15.3	16.6	18.9	21.6	24.0	26.4
70°	24.0	27.3	28.1	28.1	28.1	29.0	30.2	31.6	33.5	35.0	36.3
67.5°	36.9	39.8	40.2	40.9	39.8	38.2	36.6	36.6	38.7	41.1	43.8
65°	45.0	42.1	39.8	39.4	38.6	36.7	33.6	31.4	30.8	30.4	30.4
62.5°	40.5	34.6	32.5	32.1	30.3	28.0	23.9	20.5	18.8	17.8	17.9
60°	35.1	28.2	24.0	22.1	19.3	16.4	13.9	11.3	10.6	10.2	10.4
57.5°	28.9	21.5	16.6	15.8	13.6	10.8	8.9	7.0	6.7	6.8	7.1
55°	26.5	22.6	18.9	17.7	15.1	13.8	11.9	9.5	8.9	9.5	10.4
52.5°	34.3	32.2	30.5	30.6	33.7	31.3	23.3	32.7	38.0	38.0	36.3
50°	75.3	67.8	96.7	93.1	116.3	131.8	119.6	134.3	155.3	170.1	180.4
47.5°	215.0	222.8	257.4	287.4	311.6	338.7	366.2	382.7	386.9	414.3	433.1
45°	432.8	458.8	497.3	516.7	554.8	599.8	631.4	645.5	728.4	831.5	898.2
42.5°	628.2	648.2	678.4	747.1	816.8	971.0	1147.8	1154.0	1313.8	1455.3	1600.1
40°	764.8	802.5	910.2	1073.1	1449.3	1742.8	1951.5	2156.3	2190.4	2124.0	2160.3
37.5°	941.6	1076.4	1349.3	1788.8	2114.4	2409.1	2527.8	2543.2	2584.5	2610.5	2569.3
35°	1274.9	1723.9	1950.3	2324.0	2560.8	2618.2	2654.1	2689.5	2723.3	2746.5	2771.7
32.5°	2005.0	2561.1	2591.0	2687.1	2731.3	2782.3	2820.3	2842.5	2857.9	2878.2	2946.9
30°	2789.7	2919.2	2930.0	2922.3	2937.5	2971.9	2996.7	3037.3	3077.7	3124.1	3276.4
27.5°	3156.2	3255.3	3224.4	3171.5	3145.2	3172.6	3240.3	3303.4	3420.7	3544.2	3762.7
25°	3561.8	3627.5	3589.7	3495.7	3436.9	3475.7	3577.5	3697.7	3922.1	4119.9	4521.9
22.5°	3996.1	4118.3	4078.8	4050.7	3926.8	3945.3	4025.6	4296.9	4858.2	5746.8	7592.0
20°	4333.0	4482.3	4501.3	4501.9	4475.8	4483.5	4670.0	5544.9	7185.9	12342.8	16914.2
17.5°	4582.7	4670.3	4775.5	4818.7	4869.8	5019.0	6013.9	9040.6	16127.5	25612.2	32875.2
15°	4906.4	5018.5	5132.5	5204.6	5320.2	6140.8	8684.9	17980.5	30867.8	46965.8	67542.1
12.5°	5165.6	5303.8	5394.2	5451.4	5717.8	7876.6	16728.1	30110.1	50217.3	75197.5	112254.6
10°	5309.0	5416.7	5540.1	5738.1	6824.5	11425.2	23590.0	42312.4	73221.4	118217.2	167573.9
7.5°	5380.4	5519.8	5726.1	6027.0	8077.4	16678.7	32818.1	59723.9	101941.3	157969.8	226740.9
5°	5463.5	5721.2	5966.8	6311.3	9050.4	20471.8	40153.6	74574.0	126981.9	195522.0	280454.7
2.5°	5597.7	5985.3	6143.6	6474.6	9636.6	22913.8	44527.9	86188.9	145680.4	226165.7	321522.9
0°	5809.3	6131.8	6226.8	6559.8	10226.7	24121.5	47097.3	89373.9	154009.5	238099.4	337697.7
-2.5°	6048.5	6249.8	6355.1	6726.4	10522.9	25353.6	49118.9	91513.9	152025.9	234124.1	331621.0
-5°	6204.4	6364.4	6466.4	6829.2	10490.5	24121.5	46860.1	85222.0	140428.7	213858.7	301027.9
-7.5°	6310.7	6477.2	6583.9	6916.4	9870.4	20845.9	41389.1	73460.2	119340.2	179562.4	254854.5
-10°	6414.4	6596.2	6736.1	6998.8	8736.0	15913.6	32485.9	55420.4	93331.4	141247.4	197541.2
-12.5°	6508.0	6732.6	6912.6	7033.6	7670.5	12104.1	23873.2	42390.5	67179.1	102947.7	144141.8
-15°	6555.3	6824.0	7025.5	7158.8	7528.2	9570.8	15459.1	28050.5	46901.7	69088.2	95893.3
-17.5°	6473.7	6874.5	7068.4	7215.2	7336.7	7861.6	10904.7	17218.5	28992.6	43526.5	56620.7
-20°	6344.0	6880.1	7099.7	7297.3	7435.4	7578.4	7966.0	10965.3	15755.3	24671.8	33398.9



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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°	6234.4	6732.8	7191.2	7404.7	7563.5	7574.0	7585.9	7947.0	9817.2	12821.4	17438.0
-25°	6158.2	6630.0	7163.3	7494.0	7604.0	7608.0	7548.0	7480.9	7692.9	7906.0	9592.9
-27.5°	6029.6	6541.2	7042.5	7445.9	7608.9	7603.3	7557.8	7513.0	7439.5	7391.6	7573.5
-30°	5872.2	6386.3	6853.0	7258.7	7500.3	7574.6	7543.5	7510.2	7487.5	7471.6	7438.9
-32.5°	5033.4	6196.0	6589.2	6957.2	7302.1	7453.2	7520.4	7504.8	7484.4	7475.7	7481.5
-35°	4111.4	5311.7	6332.6	6594.9	6894.2	7194.8	7406.9	7454.9	7476.2	7472.4	7481.8
-37.5°	3152.5	4233.8	5236.8	6075.1	6435.5	6748.0	7056.3	7260.5	7383.1	7404.3	7433.2
-40°	2717.0	3022.7	3972.8	4815.4	5516.5	6161.8	6488.3	6841.3	7116.7	7227.5	7285.7
-42.5°	2601.9	2723.3	2848.1	3466.1	4191.8	4807.1	5416.6	6022.4	6525.3	6809.8	6994.9
-45°	2551.7	2619.4	2691.4	2790.9	2880.0	3399.6	3959.3	4549.6	5210.5	5704.1	6164.0
-47.5°	2405.6	2541.9	2610.8	2653.0	2684.4	2752.9	2814.3	2980.6	3530.6	3963.1	4442.9
-50°	2212.3	2351.0	2463.5	2563.5	2597.7	2613.5	2631.9	2687.2	2775.0	2838.9	2935.5
-52.5°	1988.7	2118.8	2244.1	2351.1	2427.6	2493.5	2556.3	2600.0	2635.5	2672.5	2707.4
-55°	1774.8	1885.6	1993.0	2093.5	2184.7	2260.7	2335.5	2406.7	2473.4	2536.2	2594.8
-57.5°	1540.3	1651.0	1749.8	1840.0	1917.7	1981.0	2054.8	2133.3	2206.7	2271.9	2335.5
-60°	1303.6	1404.3	1498.8	1584.1	1655.3	1711.2	1783.0	1853.3	1920.4	1981.1	2034.4
-62.5°	1081.0	1167.1	1248.4	1323.7	1391.1	1451.1	1511.4	1571.6	1635.1	1691.9	1742.0
-65°	893.0	961.6	1019.4	1073.2	1118.5	1172.8	1230.6	1284.6	1340.5	1393.1	1441.0
-67.5°	704.0	762.2	810.7	857.1	895.0	933.1	976.2	1017.3	1056.8	1097.7	1137.7
-70°	531.3	572.3	602.9	634.7	671.9	706.7	741.5	776.3	809.2	845.2	882.3
-72.5°	396.5	416.4	436.6	462.4	484.6	509.8	534.8	561.5	588.6	614.8	639.2
-75°	317.4	330.1	345.3	357.9	367.4	379.7	393.6	410.4	427.3	444.3	460.2
-77.5°	282.4	291.1	298.1	303.5	308.1	314.4	320.8	332.5	345.2	359.4	373.8
-80°	255.3	260.9	265.7	269.7	273.1	278.4	283.7	293.9	304.8	315.4	325.5
-82.5°	227.7	232.4	236.4	239.9	243.1	248.0	253.0	261.2	269.5	279.7	290.0
-85°	201.0	205.1	208.9	212.1	215.1	219.0	222.8	230.5	238.2	246.4	254.5
-87.5°	178.6	182.0	185.4	188.0	190.6	193.9	197.2	203.2	209.3	215.9	222.5
-90°	3.5	3.5	3.5	2.9	2.3	2.3	2.3	2.3	2.3	1.8	1.2



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	204.6	205.2	205.2	205.2	205.2	205.2	204.6	204.0	198.2	192.3	187.1
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.0	3.5	4.0
77.5°	3.6	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.5	3.7
75°	4.1	3.5	3.5	3.5	3.5	3.5	4.1	4.7	5.1	5.4	5.2
72.5°	28.7	30.8	32.0	32.8	32.0	30.8	28.7	26.4	24.0	21.6	18.9
70°	37.0	37.3	37.5	37.5	37.5	37.3	37.0	36.3	35.0	33.5	31.6
67.5°	45.5	46.5	46.8	46.9	46.8	46.5	45.5	43.8	41.1	38.7	36.6
65°	29.0	26.9	25.0	23.5	25.0	26.9	29.0	30.4	30.4	30.8	31.4
62.5°	17.5	16.8	16.5	16.4	16.5	16.8	17.5	17.9	17.8	18.8	20.5
60°	10.5	10.7	10.2	9.4	10.2	10.7	10.5	10.4	10.2	10.6	11.3
57.5°	7.6	8.1	8.7	9.4	8.7	8.1	7.6	7.1	6.8	6.7	7.0
55°	11.3	12.4	13.3	14.1	13.3	12.4	11.3	10.4	9.5	8.9	9.5
52.5°	32.7	29.3	28.3	29.3	28.3	29.3	32.7	36.3	38.0	38.0	32.7
50°	185.6	189.4	194.0	199.4	194.0	189.4	185.6	180.4	170.1	155.3	134.3
47.5°	438.5	430.2	422.4	419.8	422.4	430.2	438.5	433.1	414.3	386.9	382.7
45°	831.3	770.1	739.0	757.5	739.0	770.1	831.3	898.2	831.5	728.4	645.5
42.5°	1677.8	1768.3	1839.1	1872.7	1839.1	1768.3	1677.8	1600.1	1455.3	1313.8	1154.0
40°	2103.5	2069.4	2087.7	2115.5	2087.7	2069.4	2103.5	2160.3	2124.0	2190.4	2156.3
37.5°	2589.5	2600.7	2518.9	2385.2	2518.9	2600.7	2589.5	2569.3	2610.5	2584.5	2543.2
35°	2825.1	2970.9	3243.8	3309.2	3243.8	2970.9	2825.1	2771.7	2746.5	2723.3	2689.5
32.5°	3120.2	3271.5	3317.9	3336.2	3317.9	3271.5	3120.2	2946.9	2878.2	2857.9	2842.5
30°	3472.9	3541.2	3524.0	3549.6	3524.0	3541.2	3472.9	3276.4	3124.1	3077.7	3037.3
27.5°	3859.2	3899.2	3886.1	3920.2	3886.1	3899.2	3859.2	3762.7	3544.2	3420.7	3303.4
25°	4856.6	5171.7	5155.2	5228.9	5155.2	5171.7	4856.6	4521.9	4119.9	3922.1	3697.7
22.5°	9838.2	10952.1	11619.1	12264.8	11619.1	10952.1	9838.2	7592.0	5746.8	4858.2	4296.9
20°	21982.1	25192.4	25891.1	25636.6	25891.1	25192.4	21982.1	16914.2	12342.8	7185.9	5544.9
17.5°	47185.3	59994.0	66871.5	67636.4	66871.5	59994.0	47185.3	32875.2	25612.2	16127.5	9040.6
15°	88799.7	111186.4	123897.1	125232.5	123897.1	111186.4	88799.7	67542.1	46965.8	30867.8	17980.5
12.5°	145166.2	180817.1	206988.9	209908.8	206988.9	180817.1	145166.2	112254.6	75197.5	50217.3	30110.1
10°	222375.2	270574.9	308689.5	317974.8	308689.5	270574.9	222375.2	167573.9	118217.2	73221.4	42312.4
7.5°	299437.5	354443.2	399301.5	409855.9	399301.5	354443.2	299437.5	226740.9	157969.8	101941.3	59723.9
5°	359679.7	430058.2	465855.9	477683.4	465855.9	430058.2	359679.7	280454.7	195522.0	126981.9	74574.0
2.5°	405599.1	472053.4	514078.8	531321.3	514078.8	472053.4	405599.1	321522.9	226165.7	145680.4	86188.9
0°	423324.9	487785.8	541302.9	574582.2	541302.9	487785.8	423324.9	337697.7	238099.4	154009.5	89373.9
-2.5°	416376.7	478441.3	523924.4	545512.1	523924.4	478441.3	416376.7	331621.0	234124.1	152025.9	91513.9
-5°	381250.9	443885.3	479051.6	490190.9	479051.6	443885.3	381250.9	301027.9	213858.7	140428.7	85222.0
-7.5°	322387.9	377520.2	419218.0	426692.3	419218.0	377520.2	322387.9	254854.5	179562.4	119340.2	73460.2
-10°	255512.0	303238.6	335048.5	341065.5	335048.5	303238.6	255512.0	197541.2	141247.4	93331.4	55420.4
-12.5°	181119.9	223042.7	248192.6	252833.3	248192.6	223042.7	181119.9	144141.8	102947.7	67179.1	42390.5
-15°	123080.0	149192.9	164436.0	165975.3	164436.0	149192.9	123080.0	95893.3	69088.2	46901.7	28050.5
-17.5°	77011.2	92543.9	102044.3	102132.4	102044.3	92543.9	77011.2	56620.7	43526.5	28992.6	17218.5
-20°	44585.0	51997.1	57312.3	57290.1	57312.3	51997.1	44585.0	33398.9	24671.8	15755.3	10965.3



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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°	23229.3	27634.7	30839.6	30693.1	30839.6	27634.7	23229.3	17438.0	12821.4	9817.2	7947.0
-25°	11406.7	13093.2	14215.8	14128.1	14215.8	13093.2	11406.7	9592.9	7906.0	7692.9	7480.9
-27.5°	7730.2	7915.8	8044.0	8057.3	8044.0	7915.8	7730.2	7573.5	7391.6	7439.5	7513.0
-30°	7426.3	7468.8	7513.5	7524.9	7513.5	7468.8	7426.3	7438.9	7471.6	7487.5	7510.2
-32.5°	7499.7	7532.9	7581.9	7612.9	7581.9	7532.9	7499.7	7481.5	7475.7	7484.4	7504.8
-35°	7505.1	7543.5	7600.2	7625.8	7600.2	7543.5	7505.1	7481.8	7472.4	7476.2	7454.9
-37.5°	7470.1	7517.2	7565.9	7588.3	7565.9	7517.2	7470.1	7433.2	7404.3	7383.1	7260.5
-40°	7337.6	7385.6	7421.2	7424.1	7421.2	7385.6	7337.6	7285.7	7227.5	7116.7	6841.3
-42.5°	7118.1	7177.6	7205.0	7200.1	7205.0	7177.6	7118.1	6994.9	6809.8	6525.3	6022.4
-45°	6600.0	6810.9	6914.4	6939.8	6914.4	6810.9	6600.0	6164.0	5704.1	5210.5	4549.6
-47.5°	4999.0	5308.2	5506.4	5585.4	5506.4	5308.2	4999.0	4442.9	3963.1	3530.6	2980.6
-50°	3061.9	3090.6	3109.5	3119.3	3109.5	3090.6	3061.9	2935.5	2838.9	2775.0	2687.2
-52.5°	2736.5	2744.7	2749.2	2749.9	2749.2	2744.7	2736.5	2707.4	2672.5	2635.5	2600.0
-55°	2637.1	2653.6	2664.0	2666.6	2664.0	2653.6	2637.1	2594.8	2536.2	2473.4	2406.7
-57.5°	2377.4	2386.9	2397.4	2403.9	2397.4	2386.9	2377.4	2335.5	2271.9	2206.7	2133.3
-60°	2066.4	2075.0	2076.7	2070.9	2076.7	2075.0	2066.4	2034.4	1981.1	1920.4	1853.3
-62.5°	1769.4	1777.5	1785.4	1788.3	1785.4	1777.5	1769.4	1742.0	1691.9	1635.1	1571.6
-65°	1463.4	1467.4	1469.3	1465.8	1469.3	1467.4	1463.4	1441.0	1393.1	1340.5	1284.6
-67.5°	1156.4	1164.3	1175.6	1183.2	1175.6	1164.3	1156.4	1137.7	1097.7	1056.8	1017.3
-70°	890.8	887.3	894.8	900.6	894.8	887.3	890.8	882.3	845.2	809.2	776.3
-72.5°	642.3	638.4	635.8	630.9	635.8	638.4	642.3	639.2	614.8	588.6	561.5
-75°	459.3	454.7	454.0	452.6	454.0	454.7	459.3	460.2	444.3	427.3	410.4
-77.5°	374.0	372.2	369.8	367.0	369.8	372.2	374.0	373.8	359.4	345.2	332.5
-80°	326.5	326.7	325.3	323.7	325.3	326.7	326.5	325.5	315.4	304.8	293.9
-82.5°	290.5	290.4	289.6	288.5	289.6	290.4	290.5	290.0	279.7	269.5	261.2
-85°	255.0	255.4	254.4	253.3	254.4	255.4	255.0	254.5	246.4	238.2	230.5
-87.5°	223.2	223.9	223.4	222.8	223.4	223.9	223.2	222.5	215.9	209.3	203.2
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	181.8	178.3	174.7	173.0	171.2	167.7	164.2	159.5	154.8	149.0	143.1
87.5°	2.3	2.9	3.4	3.4	3.5	3.5	3.5	3.5	3.5	4.1	4.7
85°	3.4	3.4	3.5	4.0	4.4	4.3	4.3	4.2	4.1	4.4	4.7
82.5°	3.5	4.0	4.4	4.5	4.7	4.7	4.7	4.9	5.1	5.0	4.9
80°	4.4	4.5	4.7	4.7	4.7	5.0	5.1	5.5	5.9	5.8	5.7
77.5°	3.9	4.4	4.8	5.0	5.2	5.5	5.9	5.9	6.0	6.4	6.5
75°	5.4	6.3	7.0	7.2	7.0	6.2	6.1	6.5	6.6	6.8	7.0
72.5°	16.6	15.3	14.6	14.0	12.9	12.6	12.0	11.0	9.8	8.1	7.0
70°	30.2	29.0	28.1	28.1	28.1	27.3	24.0	20.1	17.0	14.8	11.9
67.5°	36.6	38.2	39.8	40.9	40.2	39.8	36.9	32.8	31.4	28.6	20.8
65°	33.6	36.7	38.6	39.4	39.8	42.1	45.0	44.1	46.0	44.1	34.4
62.5°	23.9	28.0	30.3	32.1	32.5	34.6	40.5	46.7	56.1	58.6	47.6
60°	13.9	16.4	19.3	22.1	24.0	28.2	35.1	45.4	58.5	57.6	53.0
57.5°	8.9	10.8	13.6	15.8	16.6	21.5	28.9	41.7	54.9	54.4	47.7
55°	11.9	13.8	15.1	17.7	18.9	22.6	26.5	37.0	49.5	53.5	51.2
52.5°	23.3	31.3	33.7	30.6	30.5	32.2	34.3	42.8	50.3	56.4	58.5
50°	119.6	131.8	116.3	93.1	96.7	67.8	75.3	73.5	70.3	73.5	71.4
47.5°	366.2	338.7	311.6	287.4	257.4	222.8	215.0	166.1	161.3	120.0	119.6
45°	631.4	599.8	554.8	516.7	497.3	458.8	432.8	395.6	321.7	287.2	199.5
42.5°	1147.8	971.0	816.8	747.1	678.4	648.2	628.2	603.8	564.3	494.7	413.7
40°	1951.5	1742.8	1449.3	1073.1	910.2	802.5	764.8	756.4	736.6	699.0	613.5
37.5°	2527.8	2409.1	2114.4	1788.8	1349.3	1076.4	941.6	868.5	863.9	844.0	787.1
35°	2654.1	2618.2	2560.8	2324.0	1950.3	1723.9	1274.9	1055.3	967.4	951.5	932.4
32.5°	2820.3	2782.3	2731.3	2687.1	2591.0	2561.1	2005.0	1393.7	1107.1	1049.0	1018.5
30°	2996.7	2971.9	2937.5	2922.3	2930.0	2919.2	2789.7	2012.7	1417.5	1143.4	1108.7
27.5°	3240.3	3172.6	3145.2	3171.5	3224.4	3255.3	3156.2	2772.2	1855.7	1401.4	1199.1
25°	3577.5	3475.7	3436.9	3495.7	3589.7	3627.5	3561.8	3309.5	2673.9	1746.1	1293.4
22.5°	4025.6	3945.3	3926.8	4050.7	4078.8	4118.3	3996.1	3844.8	3502.9	2266.5	1580.9
20°	4670.0	4483.5	4475.8	4501.9	4501.3	4482.3	4333.0	4196.5	3822.0	2935.8	1903.2
17.5°	6013.9	5019.0	4869.8	4818.7	4775.5	4670.3	4582.7	4372.3	4101.4	3500.9	2215.8
15°	8684.9	6140.8	5320.2	5204.6	5132.5	5018.5	4906.4	4663.6	4408.4	3851.0	2663.7
12.5°	16728.1	7876.6	5717.8	5451.4	5394.2	5303.8	5165.6	5047.5	4709.8	4167.3	3126.7
10°	23590.0	11425.2	6824.5	5738.1	5540.1	5416.7	5309.0	5189.5	4906.4	4453.0	3579.4
7.5°	32818.1	16678.7	8077.4	6027.0	5726.1	5519.8	5380.4	5261.4	5031.3	4574.5	3879.7
5°	40153.6	20471.8	9050.4	6311.3	5966.8	5721.2	5463.5	5336.6	5108.4	4620.8	4077.7
2.5°	44527.9	22913.8	9636.6	6474.6	6143.6	5985.3	5597.7	5410.4	5137.9	4652.2	4203.2
0°	47097.3	24121.5	10226.7	6559.8	6226.8	6131.8	5809.3	5479.8	5126.8	4662.5	4263.8
-2.5°	49118.9	25353.6	10522.9	6726.4	6355.1	6249.8	6048.5	5747.8	5186.1	4675.3	4299.4
-5°	46860.1	24121.5	10490.5	6829.2	6466.4	6364.4	6204.4	5922.9	5276.1	4703.5	4273.4
-7.5°	41389.1	20845.9	9870.4	6916.4	6583.9	6477.2	6310.7	6032.9	5461.2	4848.0	4213.3
-10°	32485.9	15913.6	8736.0	6998.8	6736.1	6596.2	6414.4	6064.8	5538.7	4962.1	4086.9
-12.5°	23873.2	12104.1	7670.5	7033.6	6912.6	6732.6	6508.0	6053.2	5586.5	5115.6	4003.3
-15°	15459.1	9570.8	7528.2	7158.8	7025.5	6824.0	6555.3	6022.1	5597.2	5209.1	3805.8
-17.5°	10904.7	7861.6	7336.7	7215.2	7068.4	6874.5	6473.7	5985.2	5549.8	4941.9	3399.5
-20°	7966.0	7578.4	7435.4	7297.3	7099.7	6880.1	6344.0	5915.8	5424.3	4392.1	3043.7



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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°	7585.9	7574.0	7563.5	7404.7	7191.2	6732.8	6234.4	5803.3	5238.3	3849.0	2697.7
-25°	7548.0	7608.0	7604.0	7494.0	7163.3	6630.0	6158.2	5609.4	4622.4	3376.5	2376.1
-27.5°	7557.8	7603.3	7608.9	7445.9	7042.5	6541.2	6029.6	5300.7	3864.8	2873.4	2365.6
-30°	7543.5	7574.6	7500.3	7258.7	6853.0	6386.3	5872.2	4495.2	3270.6	2489.8	2334.7
-32.5°	7520.4	7453.2	7302.1	6957.2	6589.2	6196.0	5033.4	3700.5	2713.4	2446.0	2309.9
-35°	7406.9	7194.8	6894.2	6594.9	6332.6	5311.7	4111.4	2999.0	2548.4	2398.1	2283.8
-37.5°	7056.3	6748.0	6435.5	6075.1	5236.8	4233.8	3152.5	2659.2	2476.9	2367.9	2211.5
-40°	6488.3	6161.8	5516.5	4815.4	3972.8	3022.7	2717.0	2553.7	2445.0	2301.5	2109.3
-42.5°	5416.6	4807.1	4191.8	3466.1	2848.1	2723.3	2601.9	2509.0	2374.3	2185.1	1974.2
-45°	3959.3	3399.6	2880.0	2790.9	2691.4	2619.4	2551.7	2411.6	2245.5	2036.8	1827.5
-47.5°	2814.3	2752.9	2684.4	2653.0	2610.8	2541.9	2405.6	2258.6	2067.4	1866.0	1672.3
-50°	2631.9	2613.5	2597.7	2563.5	2463.5	2351.0	2212.3	2066.4	1882.2	1696.3	1512.6
-52.5°	2556.3	2493.5	2427.6	2351.1	2244.1	2118.8	1988.7	1857.8	1696.6	1521.2	1347.9
-55°	2335.5	2260.7	2184.7	2093.5	1993.0	1885.6	1774.8	1644.7	1500.2	1337.4	1180.4
-57.5°	2054.8	1981.0	1917.7	1840.0	1749.8	1651.0	1540.3	1417.7	1296.1	1151.5	1011.2
-60°	1783.0	1711.2	1655.3	1584.1	1498.8	1404.3	1303.6	1197.6	1085.4	981.8	873.4
-62.5°	1511.4	1451.1	1391.1	1323.7	1248.4	1167.1	1081.0	1001.1	918.6	829.3	730.0
-65°	1230.6	1172.8	1118.5	1073.2	1019.4	961.6	893.0	822.3	747.9	668.8	582.6
-67.5°	976.2	933.1	895.0	857.1	810.7	762.2	704.0	642.1	581.4	520.2	452.7
-70°	741.5	706.7	671.9	634.7	602.9	572.3	531.3	485.8	434.6	392.3	354.1
-72.5°	534.8	509.8	484.6	462.4	436.6	416.4	396.5	372.2	342.9	310.4	283.9
-75°	393.6	379.7	367.4	357.9	345.3	330.1	317.4	303.1	288.3	272.5	256.6
-77.5°	320.8	314.4	308.1	303.5	298.1	291.1	282.4	270.7	259.2	246.1	233.1
-80°	283.7	278.4	273.1	269.7	265.7	260.9	255.3	245.4	235.0	223.1	211.7
-82.5°	253.0	248.0	243.1	239.9	236.4	232.4	227.7	219.3	210.7	201.1	191.7
-85°	222.8	219.0	215.1	212.1	208.9	205.1	201.0	194.4	187.7	179.5	171.4
-87.5°	197.2	193.9	190.6	188.0	185.4	182.0	178.6	173.4	168.2	161.4	154.6
-90°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	3.5	3.5	4.1	4.7



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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°	137.2	131.3	126.1	120.8	116.1	111.4	106.1	100.8	93.8	86.8	78.0
87.5°	4.7	4.7	5.1	5.4	5.3	5.3	5.6	5.9	5.9	5.9	6.1
85°	4.9	5.1	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.2
82.5°	5.4	5.8	5.8	5.9	6.3	6.4	6.3	6.2	6.2	6.0	6.4
80°	5.7	6.0	6.2	6.3	6.6	7.0	6.8	6.7	6.8	6.8	6.8
77.5°	6.3	6.2	6.6	6.9	6.9	7.1	7.2	7.2	7.5	7.5	7.4
75°	7.0	6.9	6.9	7.1	7.2	7.2	7.6	7.8	8.1	8.2	7.9
72.5°	7.0	7.1	7.2	7.3	7.6	7.8	8.1	8.4	8.6	8.7	8.3
70°	9.2	7.8	7.8	8.0	8.3	8.5	8.7	9.0	9.1	9.2	8.9
67.5°	13.0	10.9	9.5	9.0	9.0	9.3	9.4	9.7	9.9	9.8	9.6
65°	25.3	17.5	11.6	11.0	10.3	10.3	10.5	10.8	10.8	11.0	10.2
62.5°	37.1	27.3	20.1	14.7	12.7	13.1	11.8	12.6	12.0	12.3	11.5
60°	48.6	37.6	29.4	23.4	18.8	17.0	16.2	14.7	14.5	13.8	13.1
57.5°	47.6	46.0	41.4	33.3	28.6	24.2	21.8	19.7	17.4	16.7	14.9
55°	46.9	46.9	51.9	46.8	41.2	34.5	30.3	26.4	21.7	20.1	17.1
52.5°	54.7	55.8	60.0	62.7	58.4	48.0	43.6	33.7	29.9	23.8	20.7
50°	67.9	74.0	74.8	81.3	77.9	70.9	58.4	48.2	38.8	29.1	24.7
47.5°	102.8	108.6	102.9	108.2	103.1	97.5	82.2	65.5	48.5	38.1	28.8
45°	197.3	164.7	159.4	150.3	138.4	131.8	111.2	84.3	65.8	48.1	33.1
42.5°	329.1	282.9	256.5	201.2	195.3	171.9	145.2	114.7	84.5	58.7	40.4
40°	514.1	445.2	383.4	320.6	266.0	217.2	188.6	149.2	104.4	72.4	50.1
37.5°	693.7	611.9	540.8	447.5	356.2	291.3	236.3	186.1	130.1	91.8	60.1
35°	843.1	766.7	671.3	571.3	475.5	366.7	287.5	227.4	164.6	112.1	70.4
32.5°	965.8	888.5	779.2	678.0	570.5	442.1	349.8	271.3	199.6	133.4	81.1
30°	1057.4	983.8	879.9	761.8	647.6	520.5	412.3	313.1	235.0	155.5	93.4
27.5°	1152.3	1081.6	977.4	846.9	714.2	588.0	463.5	352.6	270.7	178.2	109.7
25°	1247.2	1174.6	1078.2	941.0	780.9	640.9	510.1	390.2	304.5	201.9	125.1
22.5°	1330.2	1260.5	1178.5	1040.3	856.2	692.2	553.8	430.9	327.4	223.8	139.6
20°	1406.4	1333.3	1272.6	1124.5	938.1	753.7	596.5	462.6	348.6	243.8	153.1
17.5°	1515.4	1398.2	1321.6	1189.2	1015.3	816.9	640.7	492.6	368.1	261.8	165.7
15°	1764.7	1461.8	1369.9	1246.2	1078.2	876.5	685.0	521.4	385.8	278.0	176.7
12.5°	1992.8	1522.1	1420.5	1295.0	1125.5	928.7	728.4	548.6	401.6	293.3	186.1
10°	2223.1	1580.6	1470.0	1342.3	1166.0	973.8	770.1	576.8	421.3	307.8	194.5
7.5°	2475.7	1638.1	1516.3	1387.5	1201.0	1010.6	806.5	608.8	440.4	320.8	201.8
5°	2705.1	1691.0	1564.3	1437.9	1236.4	1039.7	837.7	638.2	457.8	332.2	207.9
2.5°	2865.9	1735.7	1611.5	1485.3	1267.0	1063.1	863.9	664.5	473.4	341.8	213.0
0°	2985.6	1775.4	1654.6	1526.8	1292.3	1081.2	885.4	687.2	486.7	349.5	216.9
-2.5°	2980.6	1808.7	1689.9	1566.9	1339.1	1107.7	899.3	699.1	500.7	360.1	224.8
-5°	2929.6	1838.0	1721.9	1600.7	1378.4	1128.3	908.6	707.1	512.1	368.6	231.4
-7.5°	2866.7	1870.8	1752.1	1628.0	1408.7	1142.2	913.3	711.4	520.8	374.7	236.6
-10°	2762.8	1903.1	1780.1	1641.1	1414.8	1150.4	914.8	712.2	526.5	378.3	240.1
-12.5°	2634.5	1932.6	1803.9	1646.5	1411.5	1154.3	920.9	711.3	528.9	379.5	242.0
-15°	2463.9	1972.0	1833.0	1644.9	1402.1	1152.9	920.3	706.4	524.6	376.7	242.0
-17.5°	2223.3	2001.6	1860.7	1639.3	1387.7	1146.3	912.6	695.9	517.3	369.7	239.5
-20°	2194.6	2028.9	1876.0	1621.5	1367.4	1131.9	897.3	679.6	506.8	360.4	234.9



REPORT NUMBER: P701610 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2214.6	2059.9	1868.7	1591.7	1342.6	1110.9	875.3	658.0	493.1	348.8	228.8
-25°	2218.8	2089.5	1857.9	1575.6	1313.9	1081.4	849.6	636.8	476.2	334.8	221.2
-27.5°	2217.1	2084.2	1841.2	1541.5	1282.4	1045.1	821.2	621.8	462.3	318.5	212.0
-30°	2211.8	2028.1	1781.8	1491.9	1238.8	1004.3	788.2	603.1	446.7	305.5	201.2
-32.5°	2181.2	1965.5	1705.5	1435.7	1186.9	958.2	751.7	580.4	427.6	294.5	194.5
-35°	2101.1	1880.4	1627.5	1371.1	1129.7	913.6	716.0	553.6	405.2	280.9	188.7
-37.5°	2013.5	1774.8	1548.5	1300.4	1067.0	863.7	682.8	524.5	379.4	264.5	182.1
-40°	1886.6	1659.6	1444.1	1221.3	1002.8	807.9	644.4	491.9	356.0	245.4	174.0
-42.5°	1753.6	1538.9	1333.9	1127.9	933.8	757.5	601.2	454.9	331.1	231.0	164.3
-45°	1618.7	1414.3	1218.9	1036.1	859.9	701.2	554.5	414.9	302.8	218.0	156.8
-47.5°	1476.2	1286.1	1106.6	938.1	789.9	639.3	500.3	379.1	271.6	203.1	153.8
-50°	1329.3	1155.3	993.0	846.7	710.0	572.5	444.0	339.6	252.1	186.2	150.2
-52.5°	1180.7	1023.3	884.5	755.2	626.3	499.6	392.9	297.4	230.8	177.4	146.1
-55°	1029.2	901.1	780.5	659.2	538.5	434.4	338.4	269.2	207.6	171.8	141.7
-57.5°	897.6	785.3	671.1	558.3	458.5	368.7	296.4	239.4	196.3	165.5	138.8
-60°	767.8	662.2	556.6	466.9	382.5	313.7	261.6	215.0	188.2	159.2	135.5
-62.5°	632.7	539.0	457.5	379.5	320.6	272.2	229.6	204.0	179.1	154.6	131.8
-65°	506.0	431.0	361.4	316.7	272.6	236.3	215.9	192.3	171.4	149.5	127.7
-67.5°	385.0	343.6	302.4	262.3	239.1	220.2	201.4	182.6	164.0	143.9	123.4
-70°	315.8	278.9	255.2	237.8	220.9	204.2	189.7	173.5	156.3	138.4	118.7
-72.5°	266.6	249.6	233.3	217.8	204.7	191.3	178.3	164.3	148.9	132.6	113.8
-75°	240.6	226.9	214.5	202.3	190.1	178.2	167.3	155.3	141.3	126.4	108.6
-77.5°	220.5	208.5	197.4	186.9	176.6	166.7	156.8	146.1	133.2	119.7	103.2
-80°	201.3	191.2	181.7	172.2	163.5	155.0	145.6	136.2	124.5	112.7	97.5
-82.5°	183.0	174.4	165.7	156.9	149.2	141.4	133.7	125.9	115.6	105.3	92.1
-85°	164.0	156.7	148.9	141.1	134.4	127.6	122.2	116.4	107.9	99.3	87.6
-87.5°	148.6	142.6	136.3	130.2	124.9	119.6	114.2	108.7	100.9	93.1	82.9
-90°	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.9	5.9	5.9	5.9



REPORT NUMBER: P701610 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	69.2	57.4	45.7	32.2	18.8	12.3	5.9
87.5°	6.2	6.1	6.1	6.1	6.1	6.1	5.9
85°	6.5	6.4	6.3	6.3	6.3	6.2	5.9
82.5°	6.8	6.6	6.5	6.6	6.5	6.4	5.9
80°	7.0	6.8	6.7	6.8	6.7	6.5	5.9
77.5°	7.4	7.1	6.9	7.0	6.9	6.7	5.9
75°	7.7	7.5	7.2	7.3	7.1	6.8	5.9
72.5°	8.1	8.0	7.6	7.5	7.3	7.0	5.9
70°	8.5	8.4	8.0	7.8	7.6	7.1	5.9
67.5°	9.2	8.8	8.4	8.1	7.8	7.3	5.9
65°	9.9	9.4	8.9	8.4	8.0	7.4	5.9
62.5°	10.6	10.1	9.3	8.7	8.3	7.6	5.9
60°	11.4	10.8	9.7	9.0	8.5	7.7	5.9
57.5°	13.3	11.5	10.5	9.3	8.8	7.9	5.9
55°	15.5	12.3	11.3	9.6	9.2	8.0	5.9
52.5°	17.8	13.3	12.2	9.9	9.6	8.2	5.9
50°	20.3	15.7	13.1	10.2	10.0	8.3	5.9
47.5°	23.1	18.3	14.1	10.7	10.4	8.5	5.9
45°	26.8	21.0	15.2	11.5	10.9	8.6	5.9
42.5°	30.6	23.7	16.3	12.3	11.4	8.8	5.9
40°	34.7	26.5	18.0	13.4	11.9	8.9	5.9
37.5°	39.1	29.4	20.2	14.8	12.4	9.0	5.9
35°	43.6	32.8	22.4	16.3	12.9	9.2	5.9
32.5°	49.4	36.3	24.6	17.8	13.5	9.3	5.9
30°	58.1	39.9	26.8	19.3	14.1	9.5	5.9
27.5°	66.7	43.5	29.7	20.8	14.7	9.6	5.9
25°	75.2	47.0	32.5	22.4	15.3	9.7	5.9
22.5°	83.4	50.6	35.3	24.0	15.9	9.8	5.9
20°	91.5	54.4	37.9	25.6	16.6	9.9	5.9
17.5°	98.8	58.1	40.5	27.3	17.2	10.0	5.9
15°	105.4	61.5	42.9	28.8	17.8	10.1	5.9
12.5°	111.4	64.9	45.2	30.4	18.4	10.2	5.9
10°	116.9	68.0	47.5	31.9	19.0	10.3	5.9
7.5°	121.7	71.0	49.6	33.4	19.6	10.4	5.9
5°	125.9	73.7	51.5	34.9	20.1	10.5	5.9
2.5°	129.5	76.3	53.4	36.2	20.6	10.5	5.9
0°	132.5	78.6	55.1	37.5	21.1	10.6	5.9
-2.5°	136.7	81.9	57.5	39.2	22.2	11.1	5.9
-5°	140.3	84.9	59.8	40.7	23.3	11.5	5.9
-7.5°	143.2	87.7	61.9	42.2	24.3	11.9	5.9
-10°	145.4	90.2	63.9	43.5	25.2	12.4	5.9
-12.5°	146.9	92.4	65.6	44.7	26.2	12.8	5.9
-15°	147.6	94.3	67.2	45.9	27.0	13.1	5.9
-17.5°	147.6	95.9	68.7	46.9	27.8	13.5	5.9
-20°	147.0	97.2	69.9	47.8	28.5	13.8	5.9



REPORT NUMBER: P701610 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	145.9	98.2	70.9	48.6	29.1	14.2	5.9
-25°	143.9	99.1	71.7	49.3	29.7	14.5	5.9
-27.5°	141.0	99.8	72.3	49.9	30.2	14.7	5.9
-30°	137.3	100.1	72.7	50.3	30.6	15.0	5.9
-32.5°	132.7	100.1	73.3	50.6	30.9	15.2	5.9
-35°	130.8	99.7	73.6	50.8	31.1	15.4	5.9
-37.5°	130.1	99.4	73.8	50.9	31.3	15.5	5.9
-40°	128.9	99.3	73.7	50.9	31.4	15.7	5.9
-42.5°	127.4	99.0	73.7	50.8	31.4	15.8	5.9
-45°	125.3	98.5	73.6	50.8	31.3	15.8	5.9
-47.5°	122.8	97.7	73.4	50.6	31.1	15.9	5.9
-50°	121.2	96.7	72.9	50.4	30.8	15.9	5.9
-52.5°	119.5	95.4	72.3	50.0	30.4	15.9	5.9
-55°	117.4	94.1	71.5	49.5	30.0	15.8	5.9
-57.5°	115.1	92.5	70.4	48.8	29.5	15.7	5.9
-60°	112.4	90.7	69.2	48.1	28.9	15.6	5.9
-62.5°	109.7	88.6	67.9	47.1	28.4	15.5	5.9
-65°	106.5	86.3	66.4	46.1	27.8	15.3	5.9
-67.5°	103.1	83.7	64.6	44.9	27.2	15.1	5.9
-70°	99.4	81.0	62.7	43.6	26.5	14.9	5.9
-72.5°	95.6	78.0	60.7	42.5	25.7	14.6	5.9
-75°	91.6	74.9	58.5	41.3	24.9	14.4	5.9
-77.5°	87.3	71.6	56.5	40.0	24.0	14.1	5.9
-80°	82.9	68.7	54.6	38.6	23.0	13.8	5.9
-82.5°	79.5	66.1	52.6	37.2	22.0	13.4	5.9
-85°	76.2	63.3	50.4	35.6	21.0	13.1	5.9
-87.5°	72.8	60.4	48.1	34.0	19.9	12.7	5.9
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(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

