

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: P701470 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-3S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701470 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

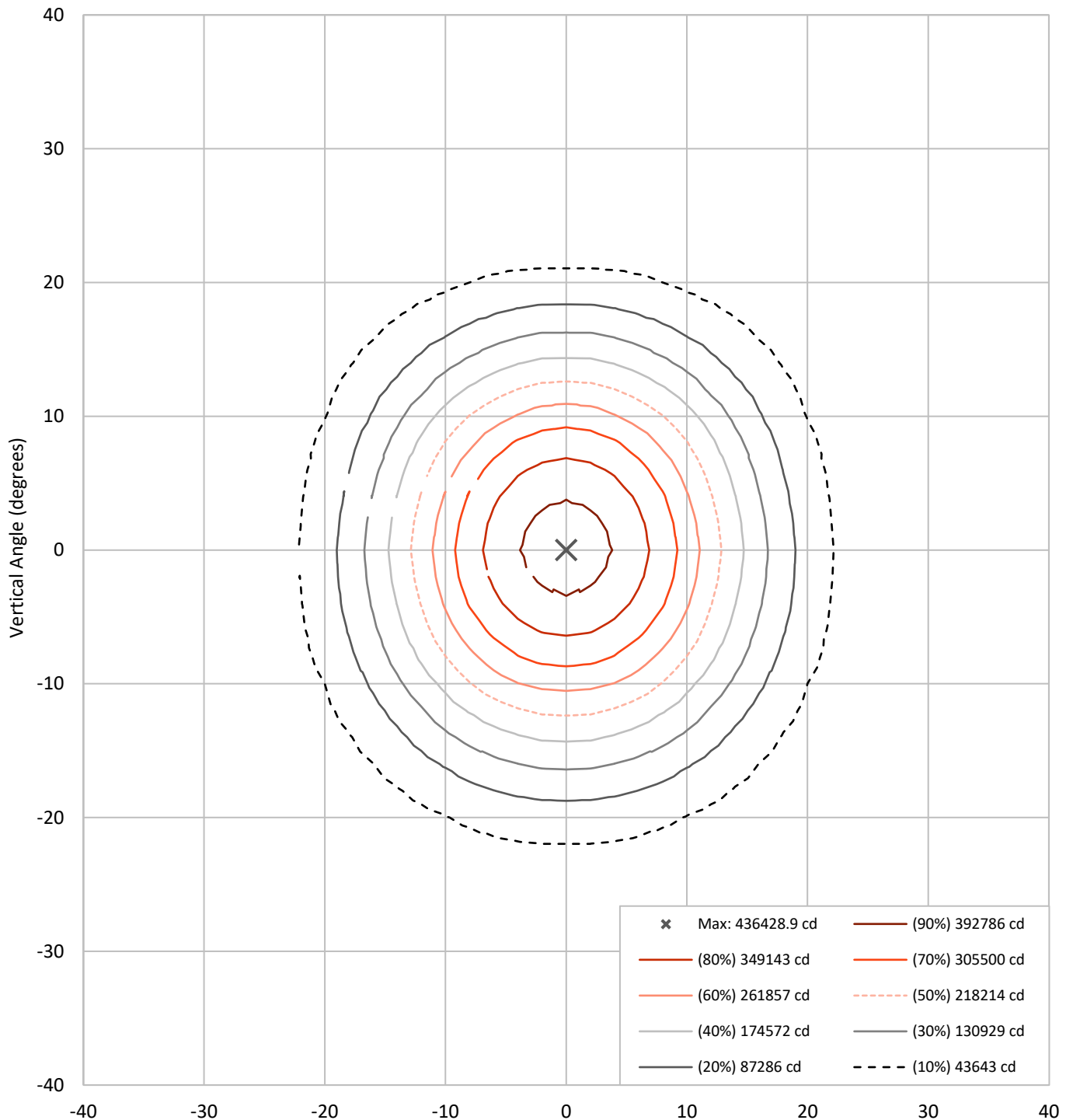
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	98052.6 lumens	Max Intensity:	436428.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.0 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:	46914 lumens	Field Lumens:	82205 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





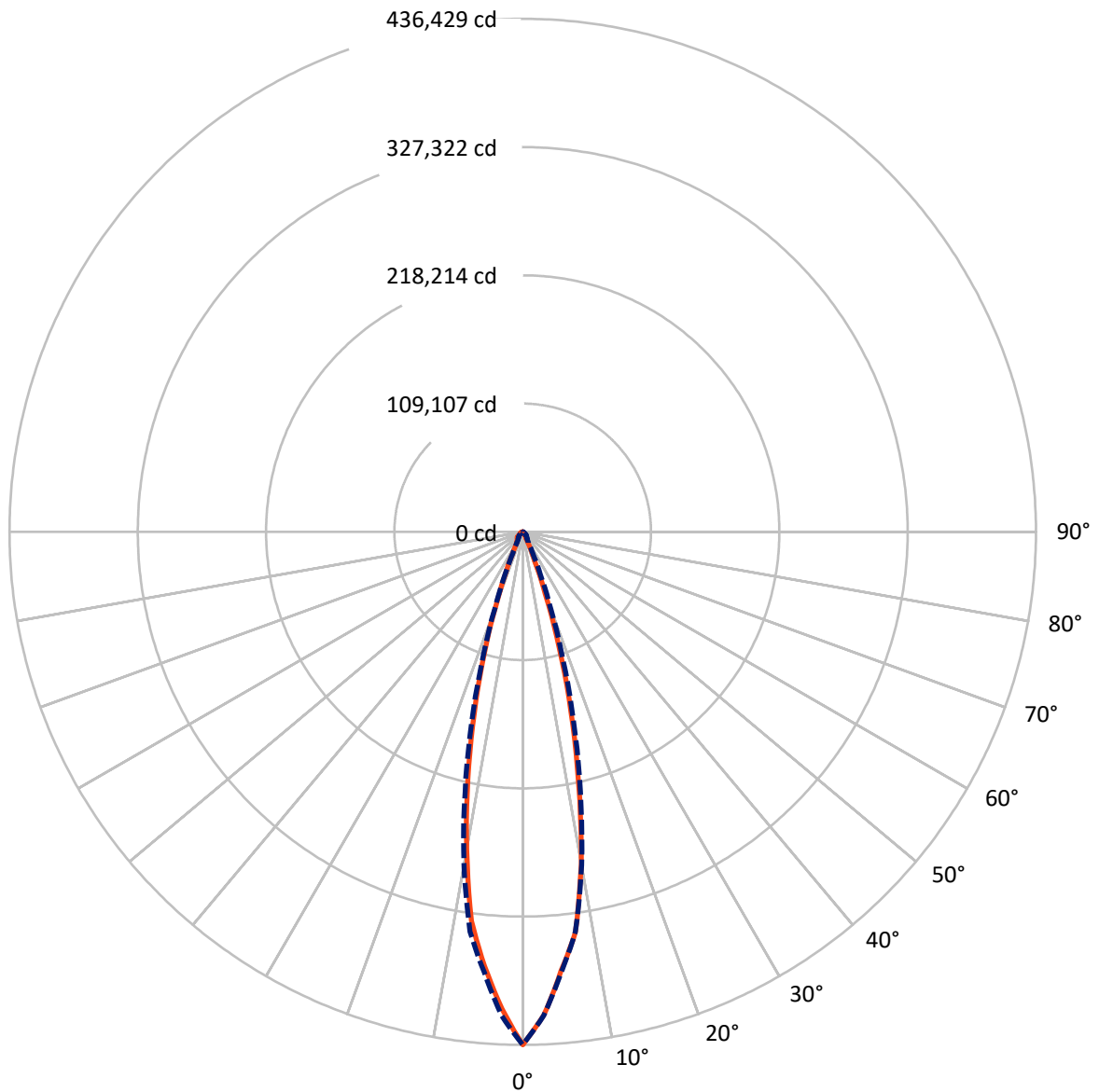
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Lumen Table

90	0.2		0.8		1.5		2.3		2.7		2.3		1.5		0.8		0.2	
80	0.2		0.8		1.5		2.3		2.7		2.3		1.5		0.8		0.2	
70	0.3	0.2	0.3	0.7	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.7	0.3	0.2	0.3		
60		0.4	0.9	1.2	1.1	1.1	1.4	1.7	1.7	1.4	1.1	1.1	1.2	0.9	0.4			
50	0.9	1.4	3.3	6.8	12.7	21.6	30.8	34.9	34.9	30.8	21.6	12.7	6.8	3.3	1.4	0.9		
40		3.4	10.4	21.5	40.4	67.0	81.0	95.1	95.1	81.0	67.0	40.4	21.5	10.4	3.4			
30	2.3	5.7	17.5	38.4	86.0	110.6	238.9	522.4	522.4	238.9	110.6	86.0	38.4	17.5	5.7	2.3		
20		7.5	23.0	62.4	123.4	298.4	1797.2	4344.8	4344.8	1797.2	298.4	123.4	62.4	23.0	7.5			
10	3.3	9.0	26.7	79.5	149.5	662.3	4365.0	9942.1	9942.1	4365.0	662.3	149.5	79.5	26.7	9.0	3.3		
0		10.0	29.3	84.1	165.6	682.6	4391.4	9838.9	9838.9	4391.4	682.6	165.6	84.1	29.3	10.0			
-10	3.6	10.1	30.3	81.2	165.0	365.9	1873.9	4385.3	4385.3	1873.9	365.9	165.0	81.2	30.3	10.1	3.6		
-20		9.3	28.9	64.3	148.5	224.2	388.4	738.7	738.7	388.4	224.2	148.5	64.3	28.9	9.3			
-30	3.0	8.0	24.7	51.4	102.6	179.3	221.3	245.6	245.6	221.3	179.3	102.6	51.4	24.7	8.0	3.0		
-40		6.1	18.9	39.8	65.0	95.8	140.5	175.0	175.0	140.5	95.8	65.0	39.8	18.9	6.1			
-50	2.5	4.1	12.2	26.0	43.7	59.5	72.3	80.2	80.2	72.3	59.5	43.7	26.0	12.2	4.1	2.5		
-60		2.9	6.5	13.4	22.8	31.4	39.6	44.6	44.6	39.6	31.4	22.8	13.4	6.5	2.9			
-70	1.8	10.7	24.9	40.5	49.7	40.5	24.9	10.7	1.8	1.8								
-80		1.8	10.7	24.9	40.5	49.7	40.5	24.9	10.7		1.8							
-90	1.8		10.7		24.9		40.5		49.7		40.5		24.9		10.7		1.8	

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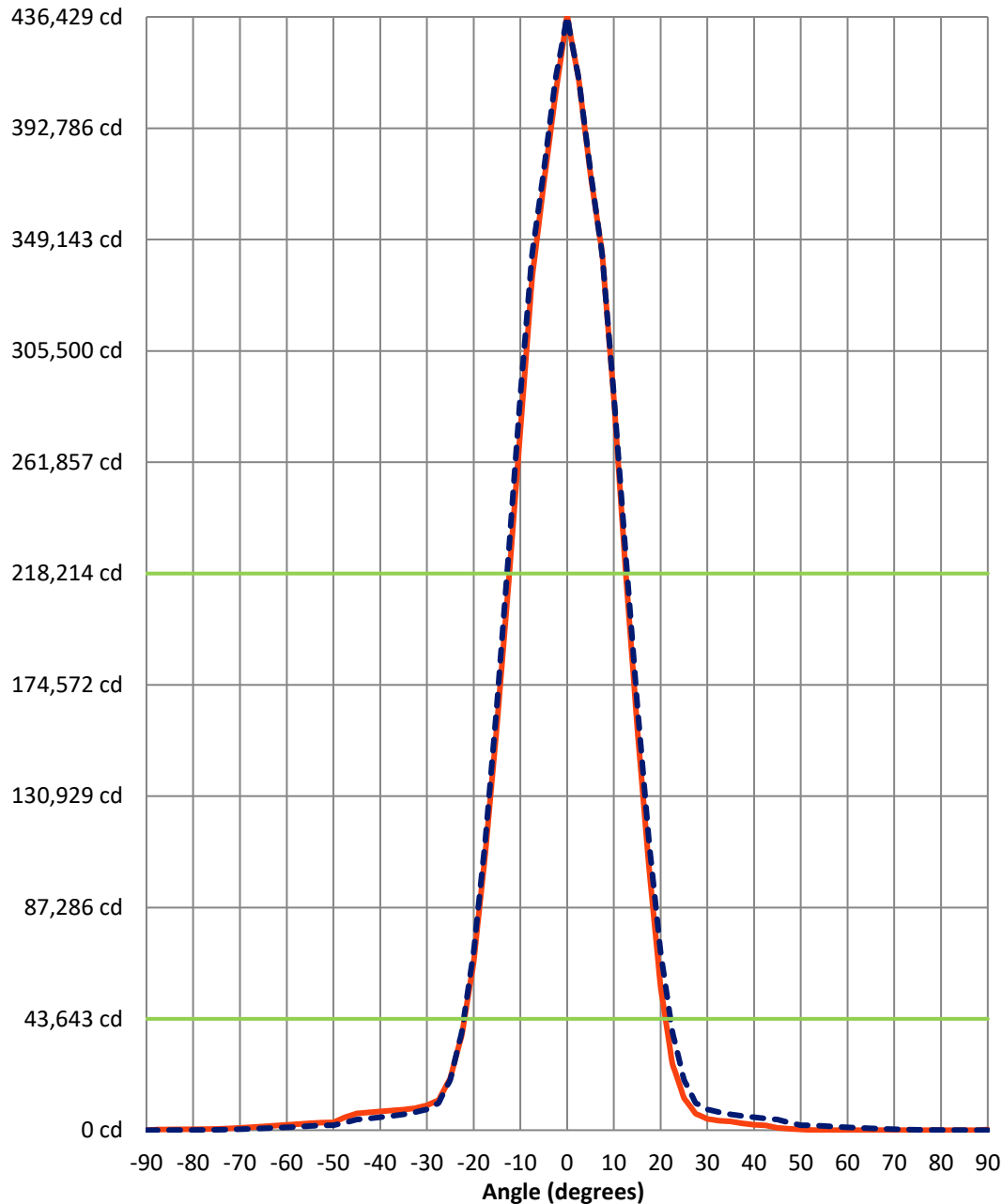
Luminous Intensity Polar Plot



— 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: 46914
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 82205
 Efficiency: 83.8%

Spill:
 Lumens: 15847.6
 Efficiency: 16.2%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.5	14.6	25.7	41.4	57.2	70.6	84.1	94.1	104.0	112.2	120.3
87.5°	3.5	3.8	3.7	3.8	3.9	3.9	3.8	3.4	3.1	3.0	2.8
85°	3.5	4.1	3.9	4.1	4.3	4.3	4.1	4.0	3.9	3.7	3.3
82.5°	3.5	4.3	4.1	4.4	4.7	4.6	4.5	4.5	4.7	4.3	3.9
80°	3.5	4.6	4.3	4.7	5.1	5.0	4.8	5.0	5.1	4.8	4.4
77.5°	3.5	4.9	4.6	5.0	5.5	5.5	5.5	5.6	5.5	5.2	4.9
75°	3.5	5.2	4.8	5.3	5.9	6.2	6.1	6.1	6.0	5.9	5.5
72.5°	3.5	5.5	5.1	5.6	6.6	6.9	6.8	6.9	7.0	6.7	6.2
70°	3.5	5.8	5.4	5.9	7.2	7.6	7.6	8.1	8.1	7.6	7.8
67.5°	3.5	6.1	5.7	6.6	7.9	8.3	9.0	9.4	9.2	9.7	9.7
65°	3.5	6.4	6.1	7.3	8.6	9.4	10.5	10.7	11.7	11.9	11.8
62.5°	3.5	6.7	6.5	8.1	9.4	11.0	12.1	13.0	14.3	14.3	14.3
60°	3.5	7.0	6.9	8.8	10.2	12.6	13.8	15.7	17.0	17.4	17.1
57.5°	3.5	7.3	7.7	9.5	11.8	14.3	16.4	18.6	20.7	21.1	23.2
55°	3.5	7.6	8.5	10.3	13.4	16.0	19.1	21.6	25.0	26.3	31.4
52.5°	3.5	7.9	9.3	11.1	15.1	17.9	21.9	25.9	29.6	36.3	40.3
50°	3.5	8.2	10.2	11.9	16.8	20.5	24.7	30.5	36.1	47.1	56.6
47.5°	3.5	8.6	11.1	12.8	18.5	23.2	27.8	35.4	47.1	58.8	76.3
45°	3.5	8.9	12.0	14.2	20.3	26.0	32.2	40.4	58.5	78.9	98.1
42.5°	3.5	9.2	12.9	15.5	22.1	29.0	36.6	48.7	70.5	100.5	131.4
40°	3.5	9.5	13.8	17.2	24.2	32.0	41.4	59.5	85.6	123.6	169.0
37.5°	3.5	9.8	14.7	19.1	26.6	35.0	46.7	70.5	106.7	151.1	209.2
35°	3.5	10.2	15.7	21.1	28.9	38.9	52.2	81.7	128.8	186.5	254.3
32.5°	3.5	10.5	16.6	23.0	31.3	43.2	58.9	93.4	151.6	222.2	298.9
30°	3.5	10.8	17.6	25.0	33.7	47.5	68.6	107.0	175.0	257.8	340.7
27.5°	3.5	11.1	18.6	26.9	36.7	51.8	78.2	124.9	198.9	293.5	379.6
25°	3.5	11.4	19.5	28.8	39.7	56.1	87.6	141.7	223.0	326.8	415.7
22.5°	3.5	11.7	20.5	30.7	42.7	60.4	96.7	157.5	245.1	349.5	455.2
20°	3.5	12.0	21.4	32.6	45.6	64.8	105.6	172.3	265.1	370.5	487.0
17.5°	3.5	12.3	22.3	34.4	48.5	69.0	113.9	185.9	283.0	389.8	516.8
15°	3.5	12.6	23.2	36.2	51.2	73.1	121.5	198.2	298.8	407.3	545.1
12.5°	3.5	12.9	24.1	38.0	53.9	76.9	128.5	209.2	314.8	423.0	571.5
10°	3.5	13.1	25.0	39.6	56.4	80.4	134.9	219.0	331.4	446.5	600.3
7.5°	3.5	13.4	25.8	41.3	58.9	83.8	140.7	227.7	346.5	470.1	636.4
5°	3.5	13.6	26.6	42.8	61.2	86.9	145.9	235.2	360.2	492.2	669.7
2.5°	3.5	13.8	27.3	44.2	63.4	89.7	150.4	241.5	372.1	512.4	700.0
0°	3.5	14.0	28.0	45.6	65.4	92.3	154.2	246.5	382.1	530.4	726.7
-2.5°	3.5	14.6	29.3	47.6	68.3	96.2	159.2	254.9	393.3	542.6	739.1
-5°	3.5	15.1	30.4	49.5	71.1	99.8	163.4	261.8	402.3	552.2	747.6
-7.5°	3.5	15.7	31.6	51.3	73.6	103.1	166.8	267.3	408.9	559.0	752.1
-10°	3.5	16.2	32.6	53.0	76.0	106.1	169.4	271.1	412.9	563.2	752.7
-12.5°	3.5	16.7	33.6	54.6	78.2	108.8	171.2	273.1	414.5	564.4	751.0
-15°	3.5	17.1	34.6	56.0	80.2	111.2	172.2	273.2	412.0	560.9	745.3
-17.5°	3.5	17.5	35.4	57.3	82.0	113.2	172.3	270.8	405.3	554.3	734.3
-20°	3.5	17.9	36.2	58.4	83.6	114.9	171.7	266.2	396.2	544.5	717.8



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.5	18.3	36.9	59.4	84.9	116.2	170.3	260.0	384.7	531.5	696.3
-25°	3.5	18.6	37.6	60.3	86.0	117.4	168.1	252.1	370.9	515.2	673.7
-27.5°	3.5	18.9	38.1	61.0	86.9	118.3	165.0	242.6	354.6	500.6	657.5
-30°	3.5	19.2	38.6	61.5	87.6	118.9	161.0	231.5	341.5	484.3	638.0
-32.5°	3.5	19.4	38.9	61.9	88.5	119.2	156.1	224.3	330.2	465.4	614.7
-35°	3.5	19.6	39.2	62.1	89.1	119.1	154.3	218.1	316.0	444.0	587.6
-37.5°	3.5	19.7	39.4	62.2	89.5	119.0	153.8	211.1	298.9	419.9	558.9
-40°	3.5	19.8	39.5	62.1	89.7	119.3	152.9	202.7	278.8	396.4	526.6
-42.5°	3.5	19.9	39.6	62.0	89.7	119.2	151.6	192.8	263.9	368.3	489.3
-45°	3.5	20.0	39.5	61.9	89.6	118.9	149.7	185.3	250.8	337.0	448.1
-47.5°	3.5	19.9	39.4	61.6	89.3	118.2	147.3	182.4	235.9	303.3	409.8
-50°	3.5	19.9	39.1	61.5	88.7	117.3	145.6	178.7	218.3	283.2	368.4
-52.5°	3.5	19.8	38.8	61.2	87.8	116.1	143.7	174.4	208.6	261.6	325.7
-55°	3.5	19.7	38.4	60.8	86.7	114.4	141.5	169.7	202.2	238.6	298.6
-57.5°	3.5	19.6	37.9	60.3	85.3	112.4	138.8	166.4	195.2	227.0	270.1
-60°	3.5	19.4	37.3	59.6	83.8	110.0	135.8	162.4	188.2	218.4	246.5
-62.5°	3.5	19.2	36.7	58.7	82.5	107.5	132.6	157.8	182.6	208.8	234.8
-65°	3.5	18.9	36.1	57.7	81.0	104.6	129.1	152.9	176.5	200.3	222.2
-67.5°	3.5	18.6	35.4	56.5	79.3	101.8	125.3	147.9	169.9	191.9	211.8
-70°	3.5	18.3	34.6	55.2	77.5	98.9	121.3	142.6	163.4	183.2	202.1
-72.5°	3.5	17.9	33.7	53.9	75.4	95.8	117.0	136.9	156.6	174.6	192.0
-75°	3.5	17.5	32.7	52.5	73.1	92.4	112.4	130.9	149.5	165.6	181.4
-77.5°	3.5	17.1	31.7	50.9	70.8	88.7	107.5	124.4	141.6	156.2	170.4
-80°	3.5	16.7	30.6	49.2	68.4	85.3	102.3	117.7	133.4	146.5	159.4
-82.5°	3.5	16.2	29.5	47.4	65.8	81.8	97.9	111.3	124.9	136.6	148.2
-85°	3.5	15.7	28.3	45.5	63.1	78.2	93.5	105.7	118.0	128.0	137.8
-87.5°	3.5	15.1	27.0	43.5	60.2	74.5	88.9	100.0	111.1	120.1	129.1
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	126.8	133.2	139.1	144.9	150.2	155.4	162.4	169.4	174.7	179.9	185.2
87.5°	2.9	2.9	2.9	3.0	2.7	2.3	2.3	2.3	2.2	2.0	2.1
85°	3.4	3.5	3.5	3.5	3.0	2.7	2.7	2.8	2.9	2.9	2.7
82.5°	4.0	4.1	3.9	3.5	3.4	3.4	3.5	3.5	3.5	3.5	3.2
80°	4.5	4.7	4.3	3.9	4.0	4.2	4.0	3.6	3.5	3.6	3.7
77.5°	4.9	4.8	4.6	4.5	4.7	4.9	4.8	4.8	4.8	4.6	4.6
75°	5.2	4.9	5.0	4.9	4.9	5.4	5.8	5.8	5.6	5.4	5.5
72.5°	6.1	6.1	5.9	5.3	5.3	5.8	5.8	5.8	7.2	9.6	11.6
70°	7.6	7.5	7.1	6.7	6.4	6.8	8.8	12.1	15.7	19.0	22.1
67.5°	9.2	9.0	8.5	8.4	9.7	11.7	14.1	22.4	30.9	33.9	34.5
65°	11.0	10.7	10.8	12.1	13.8	19.6	27.2	37.1	45.4	44.8	41.4
62.5°	13.0	14.5	14.5	17.4	23.2	30.3	39.1	47.5	54.9	51.3	42.8
60°	18.5	19.5	22.2	27.6	33.5	40.6	49.7	52.4	54.2	52.9	41.5
57.5°	25.5	28.5	34.1	39.1	46.1	49.3	50.0	49.5	52.7	50.5	39.0
55°	35.7	40.8	48.3	53.5	57.6	51.5	50.8	54.0	53.6	49.1	37.9
52.5°	50.9	56.4	66.8	70.6	67.2	62.4	60.8	63.7	61.3	55.2	47.8
50°	67.5	80.7	87.6	90.5	84.6	84.0	77.9	81.7	85.0	82.0	92.3
47.5°	92.8	108.7	113.7	119.2	116.3	127.0	121.5	141.6	143.1	201.8	219.4
45°	123.3	144.6	150.5	164.6	180.1	198.8	231.1	239.6	336.3	395.1	464.7
42.5°	160.1	186.9	211.0	219.0	288.4	326.1	374.5	464.5	554.4	628.3	680.1
40°	207.4	234.7	285.6	346.5	420.3	484.4	576.9	680.9	766.6	823.4	850.1
37.5°	259.5	312.8	379.5	478.0	567.8	649.3	767.4	871.6	947.5	1000.0	1006.8
35°	315.4	391.1	500.5	600.3	693.0	803.2	920.5	1040.3	1102.6	1125.2	1221.8
32.5°	380.7	467.5	597.0	705.3	809.7	934.7	1059.5	1162.9	1218.0	1281.8	1608.6
30°	442.4	547.5	676.5	791.6	920.9	1063.3	1182.6	1280.1	1318.1	1653.9	2182.4
27.5°	491.6	617.0	746.5	885.4	1033.8	1196.6	1316.9	1380.1	1597.9	2094.8	2858.9
25°	537.5	672.5	817.1	990.6	1159.5	1320.8	1443.1	1483.6	1936.5	2779.0	3348.6
22.5°	582.4	726.5	895.1	1102.0	1274.9	1425.5	1527.8	1773.0	2421.9	3488.9	3784.6
20°	627.3	790.5	979.8	1186.2	1376.9	1517.4	1596.0	2078.1	3011.4	3761.7	4094.4
17.5°	670.6	854.9	1057.6	1257.0	1449.3	1591.7	1693.4	2335.5	3478.3	4006.4	4334.0
15°	712.8	909.9	1117.6	1323.5	1519.6	1656.8	1932.6	2713.1	3768.3	4302.5	4648.4
12.5°	753.2	957.0	1161.8	1381.1	1587.7	1720.1	2180.8	3170.8	4071.0	4594.3	4968.1
10°	791.3	996.5	1200.2	1433.7	1651.0	1775.1	2413.7	3598.4	4347.9	4801.9	5140.8
7.5°	829.8	1032.1	1235.0	1481.3	1710.6	1825.3	2610.6	3832.3	4456.6	4939.0	5262.5
5°	863.7	1065.1	1276.2	1539.9	1768.4	1871.4	2776.9	3989.8	4491.0	5007.5	5350.2
2.5°	892.8	1092.5	1312.2	1594.6	1820.5	1913.2	2890.2	4109.7	4532.6	5056.2	5459.2
0°	917.2	1114.6	1342.4	1641.5	1864.7	1951.1	2965.3	4174.5	4558.9	5077.6	5580.0
-2.5°	935.1	1144.0	1390.7	1681.3	1901.0	1990.7	2988.9	4202.3	4597.2	5195.5	5851.3
-5°	948.3	1167.6	1431.2	1712.9	1930.5	2027.3	2972.0	4176.4	4642.9	5304.4	6023.7
-7.5°	956.5	1184.7	1462.3	1736.6	1955.1	2068.4	2921.4	4146.7	4786.0	5440.9	6110.5
-10°	960.3	1193.5	1467.1	1745.4	1974.8	2109.6	2834.7	4046.0	4889.5	5493.1	6117.6
-12.5°	963.7	1195.3	1461.3	1743.9	1987.1	2147.3	2725.8	3925.1	4984.8	5512.7	6073.3
-15°	960.7	1191.6	1448.4	1733.0	2002.7	2194.9	2586.4	3700.9	5027.3	5492.1	5990.1
-17.5°	951.0	1182.5	1430.6	1719.1	2012.7	2239.3	2403.8	3355.3	4798.8	5428.7	5926.7
-20°	934.5	1165.9	1405.1	1692.2	2007.3	2258.5	2399.2	3102.5	4319.9	5304.2	5832.6



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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°	912.6	1142.5	1374.7	1656.7	1975.7	2250.6	2432.6	2823.8	3777.3	5121.7	5690.7
-25°	887.0	1112.7	1343.5	1618.4	1931.6	2235.5	2451.0	2567.1	3328.8	4503.2	5465.3
-27.5°	857.4	1077.2	1307.9	1567.3	1874.0	2190.5	2421.1	2574.2	2964.1	3796.1	5122.8
-30°	822.5	1036.3	1261.9	1508.0	1803.5	2105.6	2369.9	2564.9	2678.8	3313.5	4380.1
-32.5°	783.0	989.2	1209.5	1451.1	1724.0	2014.3	2293.7	2504.6	2660.8	2868.6	3680.9
-35°	745.3	941.1	1151.4	1387.1	1638.6	1911.3	2173.5	2422.4	2618.2	2752.0	3082.3
-37.5°	712.0	888.6	1090.7	1317.5	1559.7	1793.1	2043.7	2300.1	2524.6	2709.7	2826.6
-40°	673.9	832.0	1028.0	1242.5	1458.2	1673.7	1907.7	2152.6	2399.9	2603.1	2781.4
-42.5°	631.2	784.4	959.8	1155.1	1353.2	1556.8	1765.2	1997.1	2230.2	2461.9	2649.9
-45°	583.8	731.2	887.1	1062.6	1242.4	1434.4	1631.8	1832.3	2052.8	2271.5	2477.1
-47.5°	530.5	672.1	820.7	964.0	1130.9	1307.2	1491.5	1680.6	1869.3	2070.1	2268.7
-50°	474.9	606.3	743.5	874.7	1017.4	1177.8	1347.1	1523.1	1701.1	1869.5	2044.3
-52.5°	423.3	534.7	660.2	786.0	911.3	1047.7	1200.6	1359.6	1524.3	1688.3	1836.1
-55°	367.7	467.8	572.1	690.8	810.6	928.6	1052.8	1196.6	1336.5	1487.4	1632.6
-57.5°	326.1	399.7	491.2	589.9	702.0	816.1	926.0	1034.4	1156.3	1282.6	1410.7
-60°	293.0	344.6	414.5	498.6	586.9	692.2	800.3	900.3	992.4	1086.3	1202.4
-62.5°	262.3	304.7	353.3	411.9	488.6	566.8	659.8	755.2	844.8	930.7	1017.0
-65°	247.4	269.7	306.4	350.1	394.0	460.7	531.9	604.9	687.0	765.8	846.1
-67.5°	231.7	252.8	273.1	297.0	336.5	375.4	413.9	478.2	542.5	600.4	658.8
-70°	219.6	236.2	254.5	272.3	290.2	313.0	348.0	384.0	418.8	457.2	506.3
-72.5°	207.8	222.6	237.4	251.8	268.0	284.4	301.1	318.7	344.2	373.9	400.7
-75°	195.6	208.6	221.6	234.5	247.9	261.5	275.6	291.1	307.0	322.9	337.2
-77.5°	183.3	195.4	206.5	217.4	228.9	241.0	253.6	266.3	279.3	292.4	303.6
-80°	170.7	182.1	191.9	201.4	211.2	221.2	232.0	242.9	253.9	264.9	274.7
-82.5°	157.9	167.6	176.3	184.9	193.3	201.7	211.0	220.5	230.1	239.5	247.7
-85°	145.5	152.9	160.4	167.8	175.2	182.5	190.9	199.2	207.2	215.1	222.1
-87.5°	136.2	143.1	149.4	155.6	161.5	167.4	174.6	181.7	187.9	194.2	199.9
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	190.4	194.0	197.5	200.4	203.3	207.4	211.5	217.4	223.2	230.2	237.2
87.5°	2.1	2.1	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.7	2.3
85°	2.3	2.3	2.3	2.6	3.1	3.1	3.2	3.3	3.3	3.4	3.5
82.5°	2.9	2.9	3.0	3.3	3.5	3.5	3.5	3.5	3.5	4.0	4.6
80°	3.8	3.9	4.1	4.2	4.2	4.0	3.6	3.5	3.5	4.1	4.7
77.5°	4.8	4.8	4.7	4.5	4.1	3.8	3.5	3.5	3.5	3.6	3.6
75°	5.7	5.8	6.2	6.6	7.1	7.2	6.7	6.9	7.2	7.1	6.7
72.5°	12.8	13.2	13.2	14.7	16.2	16.7	17.2	18.3	19.7	21.5	23.5
70°	25.1	27.7	28.7	28.8	27.6	26.9	26.4	26.2	26.7	27.9	29.5
67.5°	36.2	37.3	36.8	36.3	34.1	31.5	28.6	27.0	27.6	29.0	30.8
65°	40.9	37.7	35.4	34.5	32.5	29.2	24.8	21.7	21.1	20.6	20.5
62.5°	36.8	31.0	28.2	26.7	23.9	21.1	17.0	13.8	12.6	11.8	11.7
60°	32.0	24.9	20.5	18.4	15.4	11.9	9.8	7.5	6.8	6.3	6.4
57.5°	27.8	20.6	15.5	14.6	11.8	9.3	7.5	5.5	5.0	4.7	4.9
55°	28.7	25.0	20.9	18.8	15.7	14.3	12.5	11.3	10.3	10.6	11.3
52.5°	40.5	43.6	38.4	37.0	46.0	46.1	38.1	50.5	58.1	63.8	65.4
50°	104.6	103.9	138.1	132.3	163.8	189.7	190.7	206.4	236.3	256.7	267.7
47.5°	277.8	309.0	348.9	390.7	423.4	464.2	505.5	536.3	543.9	544.7	550.1
45°	523.0	567.6	627.5	671.5	733.3	771.4	803.0	831.7	897.9	958.9	1029.9
42.5°	730.4	779.0	841.2	930.4	995.5	1169.5	1435.6	1501.0	1510.4	1564.6	1643.4
40°	894.1	957.9	1095.8	1291.4	1708.2	2082.1	2149.5	2205.7	2230.4	2200.4	2253.9
37.5°	1092.2	1241.8	1552.3	2087.2	2284.9	2386.7	2458.3	2501.3	2553.5	2601.8	2628.1
35°	1421.2	1837.9	2110.1	2395.8	2525.1	2576.6	2629.2	2682.1	2723.2	2776.7	2819.4
32.5°	2096.5	2560.4	2587.8	2658.3	2725.7	2792.8	2841.8	2892.3	2936.1	3005.4	3150.7
30°	2776.8	2878.0	2902.7	2909.2	2970.6	3050.9	3093.6	3195.4	3333.0	3490.7	3826.4
27.5°	3139.0	3208.5	3223.1	3230.1	3258.6	3353.7	3530.0	3669.1	3999.2	4399.9	5262.5
25°	3580.0	3629.4	3682.0	3679.7	3723.2	3891.7	4236.4	4529.9	5645.2	6688.8	8937.1
22.5°	4000.7	4150.4	4225.0	4324.9	4472.5	4779.1	5383.9	7082.5	9922.9	13547.5	18059.9
20°	4293.1	4494.5	4695.1	4974.0	5330.8	5967.0	7856.3	12939.7	19010.3	27819.2	35207.5
17.5°	4588.0	4815.5	5170.4	5600.6	6199.9	8336.0	13874.9	22506.3	34973.0	50611.6	64332.9
15°	4972.6	5242.6	5717.7	6331.9	8006.5	12566.2	21806.1	37511.8	56463.6	78447.0	101507.4
12.5°	5234.5	5606.5	6171.4	6964.6	9713.3	18253.2	33130.3	54660.9	80745.0	108444.7	145203.4
10°	5428.1	5872.9	6640.2	8284.7	13268.9	24530.4	42407.8	69277.8	105038.4	147254.7	189280.8
7.5°	5590.6	6189.7	7153.0	9225.1	16336.6	30534.5	53322.8	85982.1	128292.9	179161.4	228034.2
5°	5736.6	6530.8	7646.4	10238.8	19085.2	34881.8	60581.5	98457.0	147453.3	203010.3	256969.2
2.5°	5929.8	6850.2	7966.5	10517.8	20185.5	37290.5	66333.0	108530.3	161133.7	219575.9	278283.4
0°	6198.1	7058.0	8162.1	10696.2	19843.3	38799.7	69858.0	113585.8	167128.9	226533.7	288108.0
-2.5°	6409.1	7177.7	8276.1	10552.4	19675.9	38089.9	68267.1	110638.9	161259.5	218661.7	280082.9
-5°	6545.4	7263.6	8326.1	10606.1	19253.8	35377.1	63568.4	102917.7	149307.0	201123.5	257919.6
-7.5°	6625.2	7295.0	8274.2	10268.0	17336.1	31681.3	55204.9	88685.8	130300.8	178248.9	225187.1
-10°	6672.9	7274.6	8165.8	9789.6	14582.1	25746.7	43583.0	71958.9	108015.9	146652.0	185045.7
-12.5°	6690.9	7231.6	8013.1	9104.4	11691.4	20156.5	34693.7	54832.1	81597.5	113290.8	147122.1
-15°	6655.7	7169.2	7865.4	8810.3	10531.4	15110.3	24208.7	37905.1	57855.2	82053.0	106568.8
-17.5°	6525.0	7104.7	7646.8	8372.2	9385.3	11544.6	17082.2	25873.4	38039.4	54033.9	68178.1
-20°	6351.8	6983.1	7447.2	8088.3	8883.8	9872.1	11648.0	17013.3	23835.1	33094.9	42326.4



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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°	6197.6	6775.2	7358.7	7798.8	8421.8	9071.4	9873.4	11408.2	14836.0	19459.0	25311.2
-25°	6055.4	6584.0	7182.8	7658.7	8010.2	8469.4	8971.8	9509.5	10673.9	11765.6	14588.8
-27.5°	5855.0	6402.7	6922.0	7430.0	7768.6	7977.0	8319.4	8653.6	9141.2	9574.9	10404.0
-30°	5622.0	6157.9	6652.0	7113.5	7460.5	7679.7	7849.4	8079.2	8337.3	8599.9	8956.1
-32.5°	4791.6	5870.2	6330.2	6746.9	7104.8	7362.5	7542.2	7693.1	7842.1	8010.2	8197.9
-35°	3881.9	4947.2	5985.3	6310.1	6648.3	6989.5	7256.0	7398.4	7528.1	7645.8	7760.7
-37.5°	3156.2	3907.8	4839.4	5724.8	6135.7	6480.3	6800.6	7049.5	7231.2	7341.6	7444.9
-40°	2872.2	3062.5	3779.0	4508.2	5209.3	5845.9	6171.6	6539.5	6838.3	7000.4	7112.8
-42.5°	2804.2	2891.7	2958.6	3420.5	3978.2	4515.0	5109.0	5698.6	6161.3	6469.7	6699.1
-45°	2655.4	2781.3	2881.1	2922.3	2947.5	3338.8	3798.8	4249.1	4768.7	5305.4	5792.7
-47.5°	2444.7	2608.3	2721.1	2809.3	2862.0	2878.6	2910.9	3011.9	3389.2	3785.9	4163.5
-50°	2209.7	2359.6	2494.7	2617.4	2690.4	2749.6	2806.2	2860.5	2906.6	2964.6	3016.9
-52.5°	1972.9	2110.4	2231.8	2339.5	2436.3	2529.6	2619.5	2686.6	2752.1	2822.5	2879.8
-55°	1762.1	1873.6	1975.3	2069.8	2157.1	2236.0	2317.2	2403.9	2493.6	2581.4	2649.6
-57.5°	1536.7	1643.3	1739.7	1819.7	1890.0	1948.8	2023.4	2104.7	2189.1	2267.3	2326.7
-60°	1309.4	1403.6	1491.8	1569.4	1636.0	1690.9	1759.7	1828.5	1903.8	1970.7	2023.6
-62.5°	1093.4	1172.9	1247.8	1315.6	1376.2	1431.9	1493.0	1554.4	1625.2	1687.4	1738.0
-65°	914.0	975.6	1026.9	1074.9	1112.4	1160.6	1219.7	1276.3	1338.0	1391.9	1436.9
-67.5°	719.6	776.4	823.4	865.5	898.4	932.8	976.6	1021.7	1069.5	1112.4	1150.1
-70°	549.9	588.1	618.5	649.9	683.7	716.5	751.5	790.2	830.3	865.7	896.8
-72.5°	424.2	443.1	460.9	486.4	509.1	531.9	554.1	581.7	611.5	638.3	662.6
-75°	350.4	362.1	375.7	387.8	398.4	410.6	422.8	440.8	460.3	478.8	496.1
-77.5°	314.4	322.8	329.7	335.3	340.3	347.7	355.5	368.9	383.3	398.9	414.4
-80°	283.8	290.3	296.0	301.0	305.5	311.6	317.8	329.6	342.0	355.1	368.2
-82.5°	255.6	260.7	265.4	269.8	274.1	279.4	284.5	294.8	305.4	316.5	327.4
-85°	229.0	233.4	237.4	241.1	244.7	249.1	253.5	262.3	271.2	280.5	289.8
-87.5°	205.7	209.6	213.6	216.9	220.2	224.1	227.9	235.7	243.4	251.3	259.0
-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):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	237.8	238.3	238.9	239.5	238.9	238.3	237.8	237.2	230.2	223.2	217.4
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.2	1.2
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.3
82.5°	4.1	3.5	4.1	4.7	4.1	3.5	4.1	4.6	4.0	3.5	3.5
80°	4.1	3.5	4.1	4.7	4.1	3.5	4.1	4.7	4.1	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.5
75°	5.8	4.8	4.1	3.5	4.1	4.8	5.8	6.7	7.1	7.2	6.9
72.5°	24.0	24.0	24.4	24.5	24.4	24.0	24.0	23.5	21.5	19.7	18.3
70°	30.4	31.2	31.4	31.5	31.4	31.2	30.4	29.5	27.9	26.7	26.2
67.5°	31.1	30.5	29.9	29.2	29.9	30.5	31.1	30.8	29.0	27.6	27.0
65°	19.5	18.1	16.1	14.0	16.1	18.1	19.5	20.5	20.6	21.1	21.7
62.5°	11.3	10.8	10.6	10.5	10.6	10.8	11.3	11.7	11.8	12.6	13.8
60°	6.6	7.0	7.0	7.0	7.0	7.0	6.6	6.4	6.3	6.8	7.5
57.5°	5.1	5.7	6.3	7.0	6.3	5.7	5.1	4.9	4.7	5.0	5.5
55°	12.0	13.3	13.9	14.0	13.9	13.3	12.0	11.3	10.6	10.3	11.3
52.5°	63.1	59.9	57.1	54.9	57.1	59.9	63.1	65.4	63.8	58.1	50.5
50°	272.7	279.8	283.1	282.7	283.1	279.8	272.7	267.7	256.7	236.3	206.4
47.5°	561.7	565.7	562.4	553.8	562.4	565.7	561.7	550.1	544.7	543.9	536.3
45°	1116.8	1068.4	982.5	906.6	982.5	1068.4	1116.8	1029.9	958.9	897.9	831.7
42.5°	1748.1	1806.0	1849.4	1869.4	1849.4	1806.0	1748.1	1643.4	1564.6	1510.4	1501.0
40°	2193.7	2131.9	2119.3	2128.7	2119.3	2131.9	2193.7	2253.9	2200.4	2230.4	2205.7
37.5°	2634.7	2690.9	2732.6	2665.0	2732.6	2690.9	2634.7	2628.1	2601.8	2553.5	2501.3
35°	2918.8	3118.7	3353.3	3424.4	3353.3	3118.7	2918.8	2819.4	2776.7	2723.2	2682.1
32.5°	3393.9	3605.0	3696.4	3718.9	3696.4	3605.0	3393.9	3150.7	3005.4	2936.1	2892.3
30°	4149.9	4360.7	4398.6	4429.2	4398.6	4360.7	4149.9	3826.4	3490.7	3333.0	3195.4
27.5°	5834.9	6306.6	6418.5	6497.2	6418.5	6306.6	5834.9	5262.5	4399.9	3999.2	3669.1
25°	10712.1	11939.0	12740.3	12662.6	12740.3	11939.0	10712.1	8937.1	6688.8	5645.2	4529.9
22.5°	22581.2	24989.4	26274.4	26251.6	26274.4	24989.4	22581.2	18059.9	13547.5	9922.9	7082.5
20°	45733.6	52859.4	56716.4	56277.1	56716.4	52859.4	45733.6	35207.5	27819.2	19010.3	12939.7
17.5°	79744.7	93507.8	103123.1	103517.0	103123.1	93507.8	79744.7	64332.9	50611.6	34973.0	22506.3
15°	123309.0	143730.1	158146.2	158144.3	158146.2	143730.1	123309.0	101507.4	78447.0	56463.6	37511.8
12.5°	176329.4	200739.3	217233.5	219707.0	217233.5	200739.3	176329.4	145203.4	108444.7	80745.0	54660.9
10°	227214.9	254864.0	279799.6	286665.1	279799.6	254864.0	227214.9	189280.8	147254.7	105038.4	69277.8
7.5°	270285.4	313779.5	336493.4	343647.3	336493.4	313779.5	270285.4	228034.2	179161.4	128292.9	85982.1
5°	312561.8	350209.6	369279.9	374800.7	369279.9	350209.6	312561.8	256969.2	203010.3	147453.3	98457.0
2.5°	334800.5	369357.4	396161.0	411705.4	396161.0	369357.4	334800.5	278283.4	219575.9	161133.7	108530.3
0°	343167.7	375999.5	411945.5	436428.9	411945.5	375999.5	343167.7	288108.0	226533.7	167128.9	113585.8
-2.5°	334798.7	366567.5	393057.4	405954.2	393057.4	366567.5	334798.7	280082.9	218661.7	161259.5	110638.9
-5°	309429.5	346796.7	366083.4	370966.2	366083.4	346796.7	309429.5	257919.6	201123.5	149307.0	102917.7
-7.5°	268911.4	304849.2	328495.9	333822.1	328495.9	304849.2	268911.4	225187.1	178248.9	130300.8	88685.8
-10°	223802.8	254499.8	270452.6	274397.4	270452.6	254499.8	223802.8	185045.7	146652.0	108015.9	71958.9
-12.5°	173899.8	196411.5	212696.0	214906.3	212696.0	196411.5	173899.8	147122.1	113290.8	81597.5	54832.1
-15°	129441.5	144329.7	157458.2	158966.8	157458.2	144329.7	129441.5	106568.8	82053.0	57855.2	37905.1
-17.5°	86719.1	99045.2	106391.0	108510.5	106391.0	99045.2	86719.1	68178.1	54033.9	38039.4	25873.4
-20°	51959.1	60779.3	65674.7	65858.7	65674.7	60779.3	51959.1	42326.4	33094.9	23835.1	17013.3



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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°	30144.1	35051.8	37641.9	37591.7	37641.9	35051.8	30144.1	25311.2	19459.0	14836.0	11408.2
-25°	17384.7	19533.6	20391.1	20421.6	20391.1	19533.6	17384.7	14588.8	11765.6	10673.9	9509.5
-27.5°	11069.5	11562.9	11760.4	11792.2	11760.4	11562.9	11069.5	10404.0	9574.9	9141.2	8653.6
-30°	9280.9	9569.5	9702.2	9739.4	9702.2	9569.5	9280.9	8956.1	8599.9	8337.3	8079.2
-32.5°	8374.2	8533.2	8640.5	8624.8	8640.5	8533.2	8374.2	8197.9	8010.2	7842.1	7693.1
-35°	7873.0	7971.4	8031.6	8060.4	8031.6	7971.4	7873.0	7760.7	7645.8	7528.1	7398.4
-37.5°	7547.9	7635.9	7692.9	7709.9	7692.9	7635.9	7547.9	7444.9	7341.6	7231.2	7049.5
-40°	7209.6	7282.9	7329.7	7346.6	7329.7	7282.9	7209.6	7112.8	7000.4	6838.3	6539.5
-42.5°	6844.6	6923.3	6960.7	6961.0	6960.7	6923.3	6844.6	6699.1	6469.7	6161.3	5698.6
-45°	6192.4	6434.6	6555.9	6561.5	6555.9	6434.6	6192.4	5792.7	5305.4	4768.7	4249.1
-47.5°	4507.1	4746.3	4938.8	5081.2	4938.8	4746.3	4507.1	4163.5	3785.9	3389.2	3011.9
-50°	3062.7	3078.5	3079.5	3065.7	3079.5	3078.5	3062.7	3016.9	2964.6	2906.6	2860.5
-52.5°	2924.4	2940.8	2952.8	2959.4	2952.8	2940.8	2924.4	2879.8	2822.5	2752.1	2686.6
-55°	2700.0	2720.6	2729.1	2725.8	2729.1	2720.6	2700.0	2649.6	2581.4	2493.6	2403.9
-57.5°	2366.5	2380.1	2386.4	2384.6	2386.4	2380.1	2366.5	2326.7	2267.3	2189.1	2104.7
-60°	2055.9	2066.0	2071.9	2071.5	2071.9	2066.0	2055.9	2023.6	1970.7	1903.8	1828.5
-62.5°	1766.4	1775.4	1782.0	1782.9	1782.0	1775.4	1766.4	1738.0	1687.4	1625.2	1554.4
-65°	1459.5	1466.3	1470.7	1469.8	1470.7	1466.3	1459.5	1436.9	1391.9	1338.0	1276.3
-67.5°	1166.6	1171.5	1175.5	1175.4	1175.5	1171.5	1166.6	1150.1	1112.4	1069.5	1021.7
-70°	906.6	907.0	909.0	907.8	909.0	907.0	906.6	896.8	865.7	830.3	790.2
-72.5°	668.3	667.6	667.3	664.8	667.3	667.6	668.3	662.6	638.3	611.5	581.7
-75°	497.8	496.1	494.4	491.9	494.4	496.1	497.8	496.1	478.8	460.3	440.8
-77.5°	416.3	416.2	413.5	410.1	413.5	416.2	416.3	414.4	398.9	383.3	368.9
-80°	369.0	368.6	367.3	365.7	367.3	368.6	369.0	368.2	355.1	342.0	329.6
-82.5°	328.5	329.1	328.8	328.3	328.8	329.1	328.5	327.4	316.5	305.4	294.8
-85°	291.0	291.9	291.4	290.9	291.4	291.9	291.0	289.8	280.5	271.2	262.3
-87.5°	259.8	260.4	260.5	260.5	260.5	260.4	259.8	259.0	251.3	243.4	235.7
-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°	211.5	207.4	203.3	200.4	197.5	194.0	190.4	185.2	179.9	174.7	169.4
87.5°	1.2	1.2	1.2	1.7	2.2	2.1	2.1	2.1	2.0	2.2	2.3
85°	3.2	3.1	3.1	2.6	2.3	2.3	2.3	2.7	2.9	2.9	2.8
82.5°	3.5	3.5	3.5	3.3	3.0	2.9	2.9	3.2	3.5	3.5	3.5
80°	3.6	4.0	4.2	4.2	4.1	3.9	3.8	3.7	3.6	3.5	3.6
77.5°	3.5	3.8	4.1	4.5	4.7	4.8	4.8	4.6	4.6	4.8	4.8
75°	6.7	7.2	7.1	6.6	6.2	5.8	5.7	5.5	5.4	5.6	5.8
72.5°	17.2	16.7	16.2	14.7	13.2	13.2	12.8	11.6	9.6	7.2	5.8
70°	26.4	26.9	27.6	28.8	28.7	27.7	25.1	22.1	19.0	15.7	12.1
67.5°	28.6	31.5	34.1	36.3	36.8	37.3	36.2	34.5	33.9	30.9	22.4
65°	24.8	29.2	32.5	34.5	35.4	37.7	40.9	41.4	44.8	45.4	37.1
62.5°	17.0	21.1	23.9	26.7	28.2	31.0	36.8	42.8	51.3	54.9	47.5
60°	9.8	11.9	15.4	18.4	20.5	24.9	32.0	41.5	52.9	54.2	52.4
57.5°	7.5	9.3	11.8	14.6	15.5	20.6	27.8	39.0	50.5	52.7	49.5
55°	12.5	14.3	15.7	18.8	20.9	25.0	28.7	37.9	49.1	53.6	54.0
52.5°	38.1	46.1	46.0	37.0	38.4	43.6	40.5	47.8	55.2	61.3	63.7
50°	190.7	189.7	163.8	132.3	138.1	103.9	104.6	92.3	82.0	85.0	81.7
47.5°	505.5	464.2	423.4	390.7	348.9	309.0	277.8	219.4	201.8	143.1	141.6
45°	803.0	771.4	733.3	671.5	627.5	567.6	523.0	464.7	395.1	336.3	239.6
42.5°	1435.6	1169.5	995.5	930.4	841.2	779.0	730.4	680.1	628.3	554.4	464.5
40°	2149.5	2082.1	1708.2	1291.4	1095.8	957.9	894.1	850.1	823.4	766.6	680.9
37.5°	2458.3	2386.7	2284.9	2087.2	1552.3	1241.8	1092.2	1006.8	1000.0	947.5	871.6
35°	2629.2	2576.6	2525.1	2395.8	2110.1	1837.9	1421.2	1221.8	1125.2	1102.6	1040.3
32.5°	2841.8	2792.8	2725.7	2658.3	2587.8	2560.4	2096.5	1608.6	1281.8	1218.0	1162.9
30°	3093.6	3050.9	2970.6	2909.2	2902.7	2878.0	2776.8	2182.4	1653.9	1318.1	1280.1
27.5°	3530.0	3353.7	3258.6	3230.1	3223.1	3208.5	3139.0	2858.9	2094.8	1597.9	1380.1
25°	4236.4	3891.7	3723.2	3679.7	3682.0	3629.4	3580.0	3348.6	2779.0	1936.5	1483.6
22.5°	5383.9	4779.1	4472.5	4324.9	4225.0	4150.4	4000.7	3784.6	3488.9	2421.9	1773.0
20°	7856.3	5967.0	5330.8	4974.0	4695.1	4494.5	4293.1	4094.4	3761.7	3011.4	2078.1
17.5°	13874.9	8336.0	6199.9	5600.6	5170.4	4815.5	4588.0	4334.0	4006.4	3478.3	2335.5
15°	21806.1	12566.2	8006.5	6331.9	5717.7	5242.6	4972.6	4648.4	4302.5	3768.3	2713.1
12.5°	33130.3	18253.2	9713.3	6964.6	6171.4	5606.5	5234.5	4968.1	4594.3	4071.0	3170.8
10°	42407.8	24530.4	13268.9	8284.7	6640.2	5872.9	5428.1	5140.8	4801.9	4347.9	3598.4
7.5°	53322.8	30534.5	16336.6	9225.1	7153.0	6189.7	5590.6	5262.5	4939.0	4456.6	3832.3
5°	60581.5	34881.8	19085.2	10238.8	7646.4	6530.8	5736.6	5350.2	5007.5	4491.0	3989.8
2.5°	66333.0	37290.5	20185.5	10517.8	7966.5	6850.2	5929.8	5459.2	5056.2	4532.6	4109.7
0°	69858.0	38799.7	19843.3	10696.2	8162.1	7058.0	6198.1	5580.0	5077.6	4558.9	4174.5
-2.5°	68267.1	38089.9	19675.9	10552.4	8276.1	7177.7	6409.1	5851.3	5195.5	4597.2	4202.3
-5°	63568.4	35377.1	19253.8	10606.1	8326.1	7263.6	6545.4	6023.7	5304.4	4642.9	4176.4
-7.5°	55204.9	31681.3	17336.1	10268.0	8274.2	7295.0	6625.2	6110.5	5440.9	4786.0	4146.7
-10°	43583.0	25746.7	14582.1	9789.6	8165.8	7274.6	6672.9	6117.6	5493.1	4889.5	4046.0
-12.5°	34693.7	20156.5	11691.4	9104.4	8013.1	7231.6	6690.9	6073.3	5512.7	4984.8	3925.1
-15°	24208.7	15110.3	10531.4	8810.3	7865.4	7169.2	6655.7	5990.1	5492.1	5027.3	3700.9
-17.5°	17082.2	11544.6	9385.3	8372.2	7646.8	7104.7	6525.0	5926.7	5428.7	4798.8	3355.3
-20°	11648.0	9872.1	8883.8	8088.3	7447.2	6983.1	6351.8	5832.6	5304.2	4319.9	3102.5



REPORT NUMBER: P701470 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9873.4	9071.4	8421.8	7798.8	7358.7	6775.2	6197.6	5690.7	5121.7	3777.3	2823.8
-25°	8971.8	8469.4	8010.2	7658.7	7182.8	6584.0	6055.4	5465.3	4503.2	3328.8	2567.1
-27.5°	8319.4	7977.0	7768.6	7430.0	6922.0	6402.7	5855.0	5122.8	3796.1	2964.1	2574.2
-30°	7849.4	7679.7	7460.5	7113.5	6652.0	6157.9	5622.0	4380.1	3313.5	2678.8	2564.9
-32.5°	7542.2	7362.5	7104.8	6746.9	6330.2	5870.2	4791.6	3680.9	2868.6	2660.8	2504.6
-35°	7256.0	6989.5	6648.3	6310.1	5985.3	4947.2	3881.9	3082.3	2752.0	2618.2	2422.4
-37.5°	6800.6	6480.3	6135.7	5724.8	4839.4	3907.8	3156.2	2826.6	2709.7	2524.6	2300.1
-40°	6171.6	5845.9	5209.3	4508.2	3779.0	3062.5	2872.2	2781.4	2603.1	2399.9	2152.6
-42.5°	5109.0	4515.0	3978.2	3420.5	2958.6	2891.7	2804.2	2649.9	2461.9	2230.2	1997.1
-45°	3798.8	3338.8	2947.5	2922.3	2881.1	2781.3	2655.4	2477.1	2271.5	2052.8	1832.3
-47.5°	2910.9	2878.6	2862.0	2809.3	2721.1	2608.3	2444.7	2268.7	2070.1	1869.3	1680.6
-50°	2806.2	2749.6	2690.4	2617.4	2494.7	2359.6	2209.7	2044.3	1869.5	1701.1	1523.1
-52.5°	2619.5	2529.6	2436.3	2339.5	2231.8	2110.4	1972.9	1836.1	1688.3	1524.3	1359.6
-55°	2317.2	2236.0	2157.1	2069.8	1975.3	1873.6	1762.1	1632.6	1487.4	1336.5	1196.6
-57.5°	2023.4	1948.8	1890.0	1819.7	1739.7	1643.3	1536.7	1410.7	1282.6	1156.3	1034.4
-60°	1759.7	1690.9	1636.0	1569.4	1491.8	1403.6	1309.4	1202.4	1086.3	992.4	900.3
-62.5°	1493.0	1431.9	1376.2	1315.6	1247.8	1172.9	1093.4	1017.0	930.7	844.8	755.2
-65°	1219.7	1160.6	1112.4	1074.9	1026.9	975.6	914.0	846.1	765.8	687.0	604.9
-67.5°	976.6	932.8	898.4	865.5	823.4	776.4	719.6	658.8	600.4	542.5	478.2
-70°	751.5	716.5	683.7	649.9	618.5	588.1	549.9	506.3	457.2	418.8	384.0
-72.5°	554.1	531.9	509.1	486.4	460.9	443.1	424.2	400.7	373.9	344.2	318.7
-75°	422.8	410.6	398.4	387.8	375.7	362.1	350.4	337.2	322.9	307.0	291.1
-77.5°	355.5	347.7	340.3	335.3	329.7	322.8	314.4	303.6	292.4	279.3	266.3
-80°	317.8	311.6	305.5	301.0	296.0	290.3	283.8	274.7	264.9	253.9	242.9
-82.5°	284.5	279.4	274.1	269.8	265.4	260.7	255.6	247.7	239.5	230.1	220.5
-85°	253.5	249.1	244.7	241.1	237.4	233.4	229.0	222.1	215.1	207.2	199.2
-87.5°	227.9	224.1	220.2	216.9	213.6	209.6	205.7	199.9	194.2	187.9	181.7
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3



REPORT NUMBER: P701470 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	162.4	155.4	150.2	144.9	139.1	133.2	126.8	120.3	112.2	104.0	94.1
87.5°	2.3	2.3	2.7	3.0	2.9	2.9	2.9	2.8	3.0	3.1	3.4
85°	2.7	2.7	3.0	3.5	3.5	3.5	3.4	3.3	3.7	3.9	4.0
82.5°	3.5	3.4	3.4	3.5	3.9	4.1	4.0	3.9	4.3	4.7	4.5
80°	4.0	4.2	4.0	3.9	4.3	4.7	4.5	4.4	4.8	5.1	5.0
77.5°	4.8	4.9	4.7	4.5	4.6	4.8	4.9	4.9	5.2	5.5	5.6
75°	5.8	5.4	4.9	4.9	5.0	4.9	5.2	5.5	5.9	6.0	6.1
72.5°	5.8	5.8	5.3	5.3	5.9	6.1	6.1	6.2	6.7	7.0	6.9
70°	8.8	6.8	6.4	6.7	7.1	7.5	7.6	7.8	7.6	8.1	8.1
67.5°	14.1	11.7	9.7	8.4	8.5	9.0	9.2	9.7	9.7	9.2	9.4
65°	27.2	19.6	13.8	12.1	10.8	10.7	11.0	11.8	11.9	11.7	10.7
62.5°	39.1	30.3	23.2	17.4	14.5	14.5	13.0	14.3	14.3	14.3	13.0
60°	49.7	40.6	33.5	27.6	22.2	19.5	18.5	17.1	17.4	17.0	15.7
57.5°	50.0	49.3	46.1	39.1	34.1	28.5	25.5	23.2	21.1	20.7	18.6
55°	50.8	51.5	57.6	53.5	48.3	40.8	35.7	31.4	26.3	25.0	21.6
52.5°	60.8	62.4	67.2	70.6	66.8	56.4	50.9	40.3	36.3	29.6	25.9
50°	77.9	84.0	84.6	90.5	87.6	80.7	67.5	56.6	47.1	36.1	30.5
47.5°	121.5	127.0	116.3	119.2	113.7	108.7	92.8	76.3	58.8	47.1	35.4
45°	231.1	198.8	180.1	164.6	150.5	144.6	123.3	98.1	78.9	58.5	40.4
42.5°	374.5	326.1	288.4	219.0	211.0	186.9	160.1	131.4	100.5	70.5	48.7
40°	576.9	484.4	420.3	346.5	285.6	234.7	207.4	169.0	123.6	85.6	59.5
37.5°	767.4	649.3	567.8	478.0	379.5	312.8	259.5	209.2	151.1	106.7	70.5
35°	920.5	803.2	693.0	600.3	500.5	391.1	315.4	254.3	186.5	128.8	81.7
32.5°	1059.5	934.7	809.7	705.3	597.0	467.5	380.7	298.9	222.2	151.6	93.4
30°	1182.6	1063.3	920.9	791.6	676.5	547.5	442.4	340.7	257.8	175.0	107.0
27.5°	1316.9	1196.6	1033.8	885.4	746.5	617.0	491.6	379.6	293.5	198.9	124.9
25°	1443.1	1320.8	1159.5	990.6	817.1	672.5	537.5	415.7	326.8	223.0	141.7
22.5°	1527.8	1425.5	1274.9	1102.0	895.1	726.5	582.4	455.2	349.5	245.1	157.5
20°	1596.0	1517.4	1376.9	1186.2	979.8	790.5	627.3	487.0	370.5	265.1	172.3
17.5°	1693.4	1591.7	1449.3	1257.0	1057.6	854.9	670.6	516.8	389.8	283.0	185.9
15°	1932.6	1656.8	1519.6	1323.5	1117.6	909.9	712.8	545.1	407.3	298.8	198.2
12.5°	2180.8	1720.1	1587.7	1381.1	1161.8	957.0	753.2	571.5	423.0	314.8	209.2
10°	2413.7	1775.1	1651.0	1433.7	1200.2	996.5	791.3	600.3	446.5	331.4	219.0
7.5°	2610.6	1825.3	1710.6	1481.3	1235.0	1032.1	829.8	636.4	470.1	346.5	227.7
5°	2776.9	1871.4	1768.4	1539.9	1276.2	1065.1	863.7	669.7	492.2	360.2	235.2
2.5°	2890.2	1913.2	1820.5	1594.6	1312.2	1092.5	892.8	700.0	512.4	372.1	241.5
0°	2965.3	1951.1	1864.7	1641.5	1342.4	1114.6	917.2	726.7	530.4	382.1	246.5
-2.5°	2988.9	1990.7	1901.0	1681.3	1390.7	1144.0	935.1	739.1	542.6	393.3	254.9
-5°	2972.0	2027.3	1930.5	1712.9	1431.2	1167.6	948.3	747.6	552.2	402.3	261.8
-7.5°	2921.4	2068.4	1955.1	1736.6	1462.3	1184.7	956.5	752.1	559.0	408.9	267.3
-10°	2834.7	2109.6	1974.8	1745.4	1467.1	1193.5	960.3	752.7	563.2	412.9	271.1
-12.5°	2725.8	2147.3	1987.1	1743.9	1461.3	1195.3	963.7	751.0	564.4	414.5	273.1
-15°	2586.4	2194.9	2002.7	1733.0	1448.4	1191.6	960.7	745.3	560.9	412.0	273.2
-17.5°	2403.8	2239.3	2012.7	1719.1	1430.6	1182.5	951.0	734.3	554.3	405.3	270.8
-20°	2399.2	2258.5	2007.3	1692.2	1405.1	1165.9	934.5	717.8	544.5	396.2	266.2



REPORT NUMBER: P701470 (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°	2432.6	2250.6	1975.7	1656.7	1374.7	1142.5	912.6	696.3	531.5	384.7	260.0
-25°	2451.0	2235.5	1931.6	1618.4	1343.5	1112.7	887.0	673.7	515.2	370.9	252.1
-27.5°	2421.1	2190.5	1874.0	1567.3	1307.9	1077.2	857.4	657.5	500.6	354.6	242.6
-30°	2369.9	2105.6	1803.5	1508.0	1261.9	1036.3	822.5	638.0	484.3	341.5	231.5
-32.5°	2293.7	2014.3	1724.0	1451.1	1209.5	989.2	783.0	614.7	465.4	330.2	224.3
-35°	2173.5	1911.3	1638.6	1387.1	1151.4	941.1	745.3	587.6	444.0	316.0	218.1
-37.5°	2043.7	1793.1	1559.7	1317.5	1090.7	888.6	712.0	558.9	419.9	298.9	211.1
-40°	1907.7	1673.7	1458.2	1242.5	1028.0	832.0	673.9	526.6	396.4	278.8	202.7
-42.5°	1765.2	1556.8	1353.2	1155.1	959.8	784.4	631.2	489.3	368.3	263.9	192.8
-45°	1631.8	1434.4	1242.4	1062.6	887.1	731.2	583.8	448.1	337.0	250.8	185.3
-47.5°	1491.5	1307.2	1130.9	964.0	820.7	672.1	530.5	409.8	303.3	235.9	182.4
-50°	1347.1	1177.8	1017.4	874.7	743.5	606.3	474.9	368.4	283.2	218.3	178.7
-52.5°	1200.6	1047.7	911.3	786.0	660.2	534.7	423.3	325.7	261.6	208.6	174.4
-55°	1052.8	928.6	810.6	690.8	572.1	467.8	367.7	298.6	238.6	202.2	169.7
-57.5°	926.0	816.1	702.0	589.9	491.2	399.7	326.1	270.1	227.0	195.2	166.4
-60°	800.3	692.2	586.9	498.6	414.5	344.6	293.0	246.5	218.4	188.2	162.4
-62.5°	659.8	566.8	488.6	411.9	353.3	304.7	262.3	234.8	208.8	182.6	157.8
-65°	531.9	460.7	394.0	350.1	306.4	269.7	247.4	222.2	200.3	176.5	152.9
-67.5°	413.9	375.4	336.5	297.0	273.1	252.8	231.7	211.8	191.9	169.9	147.9
-70°	348.0	313.0	290.2	272.3	254.5	236.2	219.6	202.1	183.2	163.4	142.6
-72.5°	301.1	284.4	268.0	251.8	237.4	222.6	207.8	192.0	174.6	156.6	136.9
-75°	275.6	261.5	247.9	234.5	221.6	208.6	195.6	181.4	165.6	149.5	130.9
-77.5°	253.6	241.0	228.9	217.4	206.5	195.4	183.3	170.4	156.2	141.6	124.4
-80°	232.0	221.2	211.2	201.4	191.9	182.1	170.7	159.4	146.5	133.4	117.7
-82.5°	211.0	201.7	193.3	184.9	176.3	167.6	157.9	148.2	136.6	124.9	111.3
-85°	190.9	182.5	175.2	167.8	160.4	152.9	145.5	137.8	128.0	118.0	105.7
-87.5°	174.6	167.4	161.5	155.6	149.4	143.1	136.2	129.1	120.1	111.1	100.0
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	84.1	70.6	57.2	41.4	25.7	14.6	3.5
87.5°	3.8	3.9	3.9	3.8	3.7	3.8	3.5
85°	4.1	4.3	4.3	4.1	3.9	4.1	3.5
82.5°	4.5	4.6	4.7	4.4	4.1	4.3	3.5
80°	4.8	5.0	5.1	4.7	4.3	4.6	3.5
77.5°	5.5	5.5	5.5	5.0	4.6	4.9	3.5
75°	6.1	6.2	5.9	5.3	4.8	5.2	3.5
72.5°	6.8	6.9	6.6	5.6	5.1	5.5	3.5
70°	7.6	7.6	7.2	5.9	5.4	5.8	3.5
67.5°	9.0	8.3	7.9	6.6	5.7	6.1	3.5
65°	10.5	9.4	8.6	7.3	6.1	6.4	3.5
62.5°	12.1	11.0	9.4	8.1	6.5	6.7	3.5
60°	13.8	12.6	10.2	8.8	6.9	7.0	3.5
57.5°	16.4	14.3	11.8	9.5	7.7	7.3	3.5
55°	19.1	16.0	13.4	10.3	8.5	7.6	3.5
52.5°	21.9	17.9	15.1	11.1	9.3	7.9	3.5
50°	24.7	20.5	16.8	11.9	10.2	8.2	3.5
47.5°	27.8	23.2	18.5	12.8	11.1	8.6	3.5
45°	32.2	26.0	20.3	14.2	12.0	8.9	3.5
42.5°	36.6	29.0	22.1	15.5	12.9	9.2	3.5
40°	41.4	32.0	24.2	17.2	13.8	9.5	3.5
37.5°	46.7	35.0	26.6	19.1	14.7	9.8	3.5
35°	52.2	38.9	28.9	21.1	15.7	10.2	3.5
32.5°	58.9	43.2	31.3	23.0	16.6	10.5	3.5
30°	68.6	47.5	33.7	25.0	17.6	10.8	3.5
27.5°	78.2	51.8	36.7	26.9	18.6	11.1	3.5
25°	87.6	56.1	39.7	28.8	19.5	11.4	3.5
22.5°	96.7	60.4	42.7	30.7	20.5	11.7	3.5
20°	105.6	64.8	45.6	32.6	21.4	12.0	3.5
17.5°	113.9	69.0	48.5	34.4	22.3	12.3	3.5
15°	121.5	73.1	51.2	36.2	23.2	12.6	3.5
12.5°	128.5	76.9	53.9	38.0	24.1	12.9	3.5
10°	134.9	80.4	56.4	39.6	25.0	13.1	3.5
7.5°	140.7	83.8	58.9	41.3	25.8	13.4	3.5
5°	145.9	86.9	61.2	42.8	26.6	13.6	3.5
2.5°	150.4	89.7	63.4	44.2	27.3	13.8	3.5
0°	154.2	92.3	65.4	45.6	28.0	14.0	3.5
-2.5°	159.2	96.2	68.3	47.6	29.3	14.6	3.5
-5°	163.4	99.8	71.1	49.5	30.4	15.1	3.5
-7.5°	166.8	103.1	73.6	51.3	31.6	15.7	3.5
-10°	169.4	106.1	76.0	53.0	32.6	16.2	3.5
-12.5°	171.2	108.8	78.2	54.6	33.6	16.7	3.5
-15°	172.2	111.2	80.2	56.0	34.6	17.1	3.5
-17.5°	172.3	113.2	82.0	57.3	35.4	17.5	3.5
-20°	171.7	114.9	83.6	58.4	36.2	17.9	3.5



REPORT NUMBER: P701470 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	170.3	116.2	84.9	59.4	36.9	18.3	3.5
-25°	168.1	117.4	86.0	60.3	37.6	18.6	3.5
-27.5°	165.0	118.3	86.9	61.0	38.1	18.9	3.5
-30°	161.0	118.9	87.6	61.5	38.6	19.2	3.5
-32.5°	156.1	119.2	88.5	61.9	38.9	19.4	3.5
-35°	154.3	119.1	89.1	62.1	39.2	19.6	3.5
-37.5°	153.8	119.0	89.5	62.2	39.4	19.7	3.5
-40°	152.9	119.3	89.7	62.1	39.5	19.8	3.5
-42.5°	151.6	119.2	89.7	62.0	39.6	19.9	3.5
-45°	149.7	118.9	89.6	61.9	39.5	20.0	3.5
-47.5°	147.3	118.2	89.3	61.6	39.4	19.9	3.5
-50°	145.6	117.3	88.7	61.5	39.1	19.9	3.5
-52.5°	143.7	116.1	87.8	61.2	38.8	19.8	3.5
-55°	141.5	114.4	86.7	60.8	38.4	19.7	3.5
-57.5°	138.8	112.4	85.3	60.3	37.9	19.6	3.5
-60°	135.8	110.0	83.8	59.6	37.3	19.4	3.5
-62.5°	132.6	107.5	82.5	58.7	36.7	19.2	3.5
-65°	129.1	104.6	81.0	57.7	36.1	18.9	3.5
-67.5°	125.3	101.8	79.3	56.5	35.4	18.6	3.5
-70°	121.3	98.9	77.5	55.2	34.6	18.3	3.5
-72.5°	117.0	95.8	75.4	53.9	33.7	17.9	3.5
-75°	112.4	92.4	73.1	52.5	32.7	17.5	3.5
-77.5°	107.5	88.7	70.8	50.9	31.7	17.1	3.5
-80°	102.3	85.3	68.4	49.2	30.6	16.7	3.5
-82.5°	97.9	81.8	65.8	47.4	29.5	16.2	3.5
-85°	93.5	78.2	63.1	45.5	28.3	15.7	3.5
-87.5°	88.9	74.5	60.2	43.5	27.0	15.1	3.5
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

