

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: P701574 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-70-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701574 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-70-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

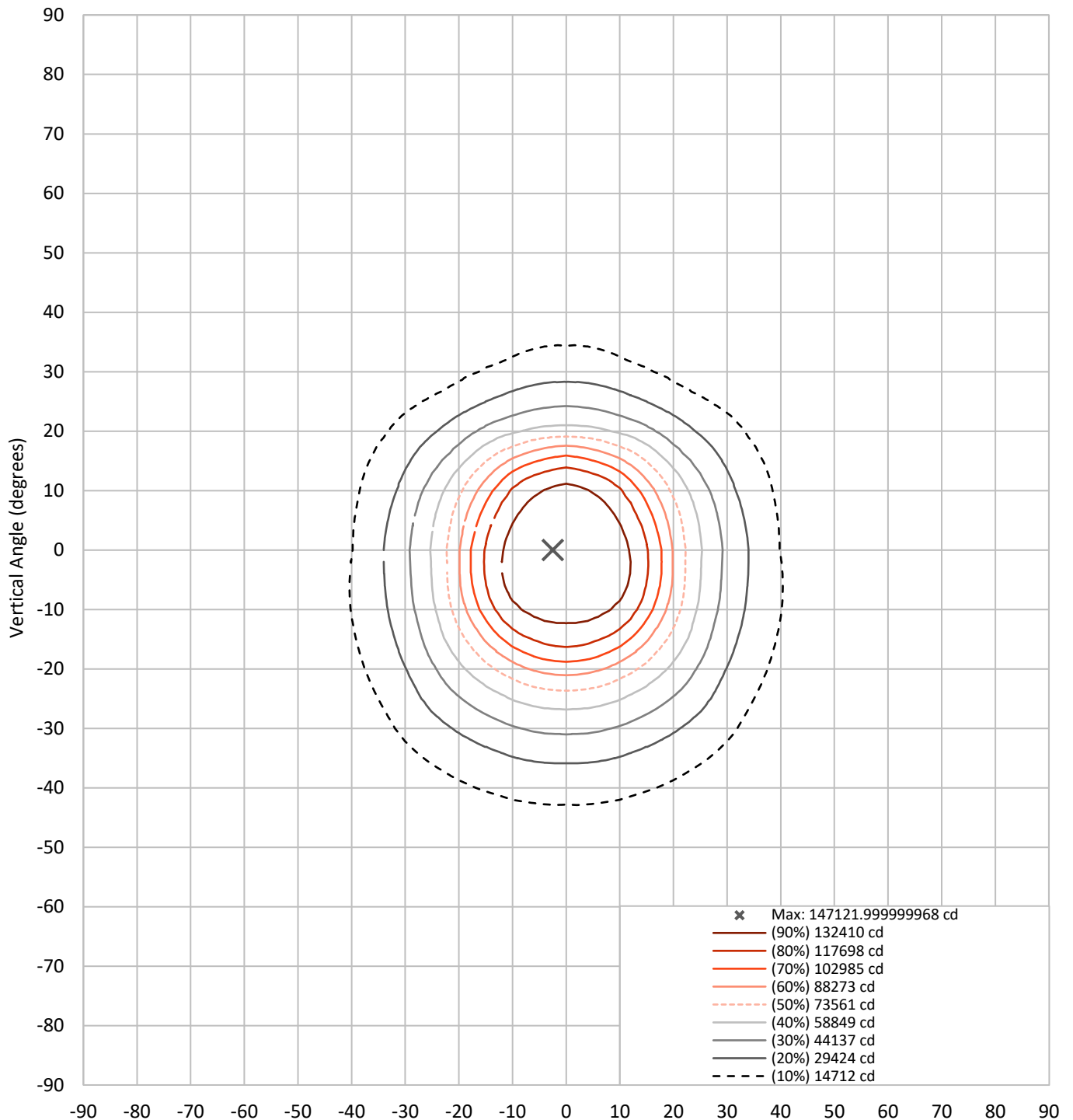
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	95796.4 lumens	Max Intensity:	147122 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	145.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	52601.3 lumens	Field Lumens:	88025.2 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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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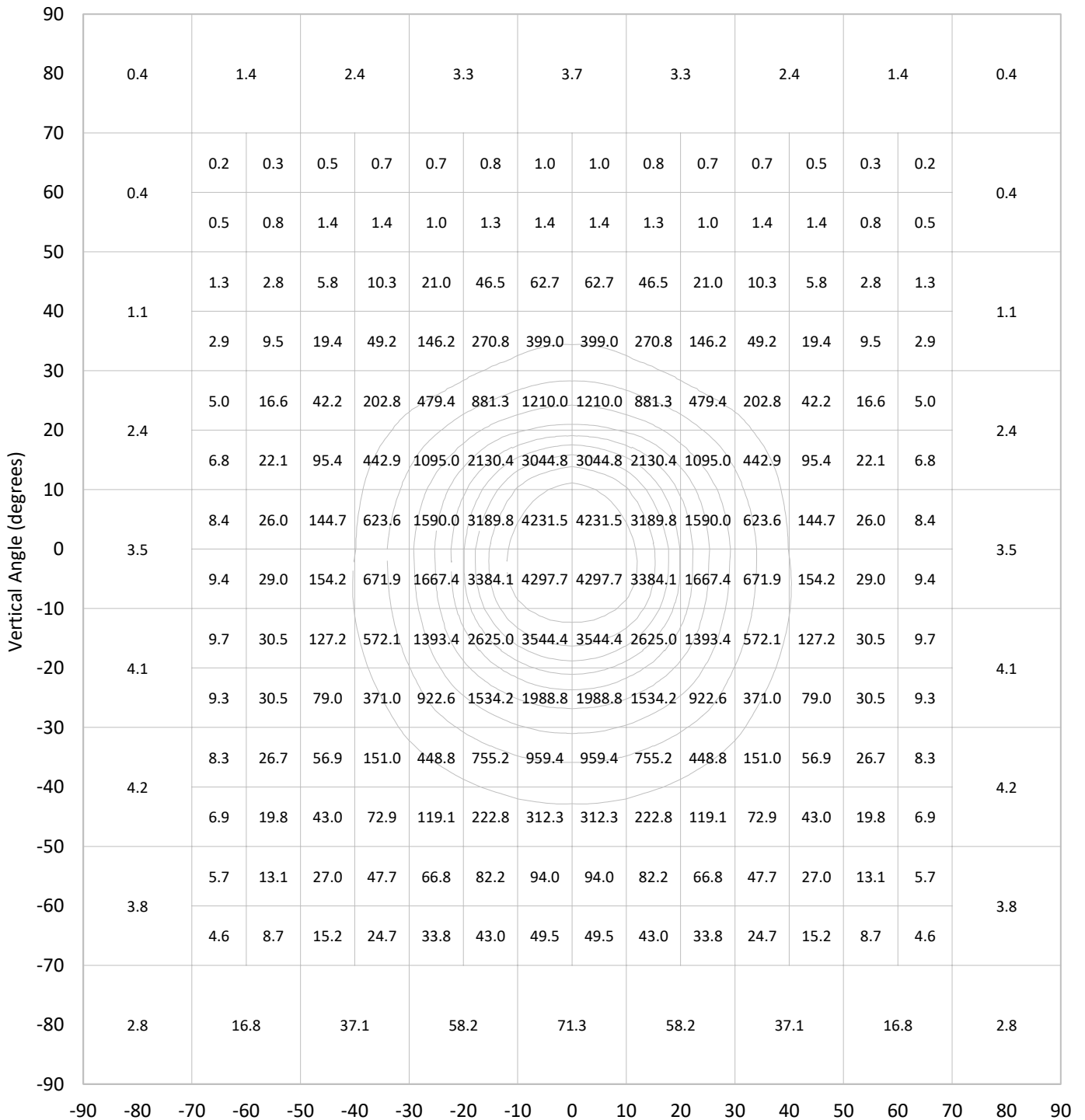
Iso-Candela Plot





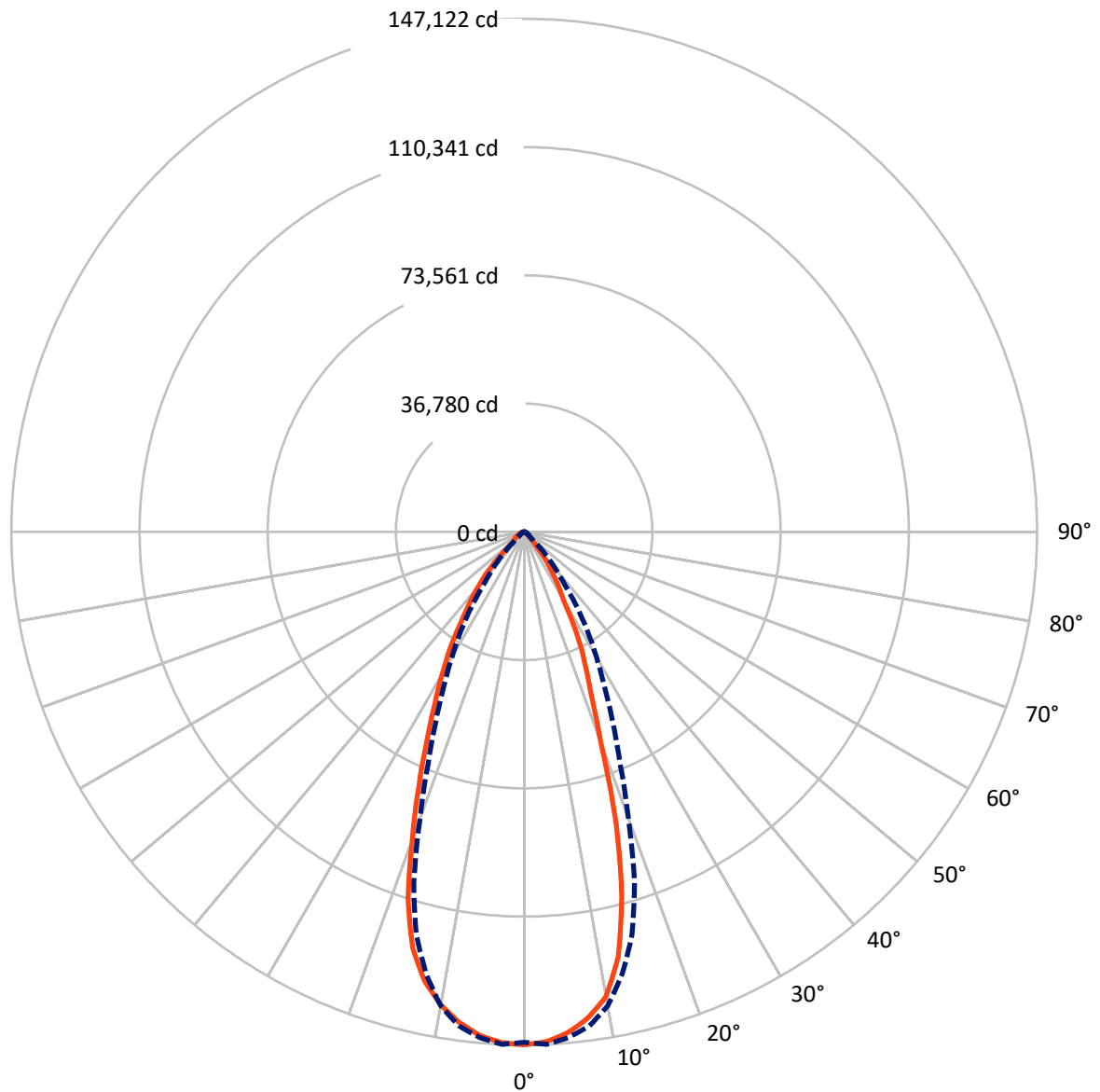
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Lumen Table



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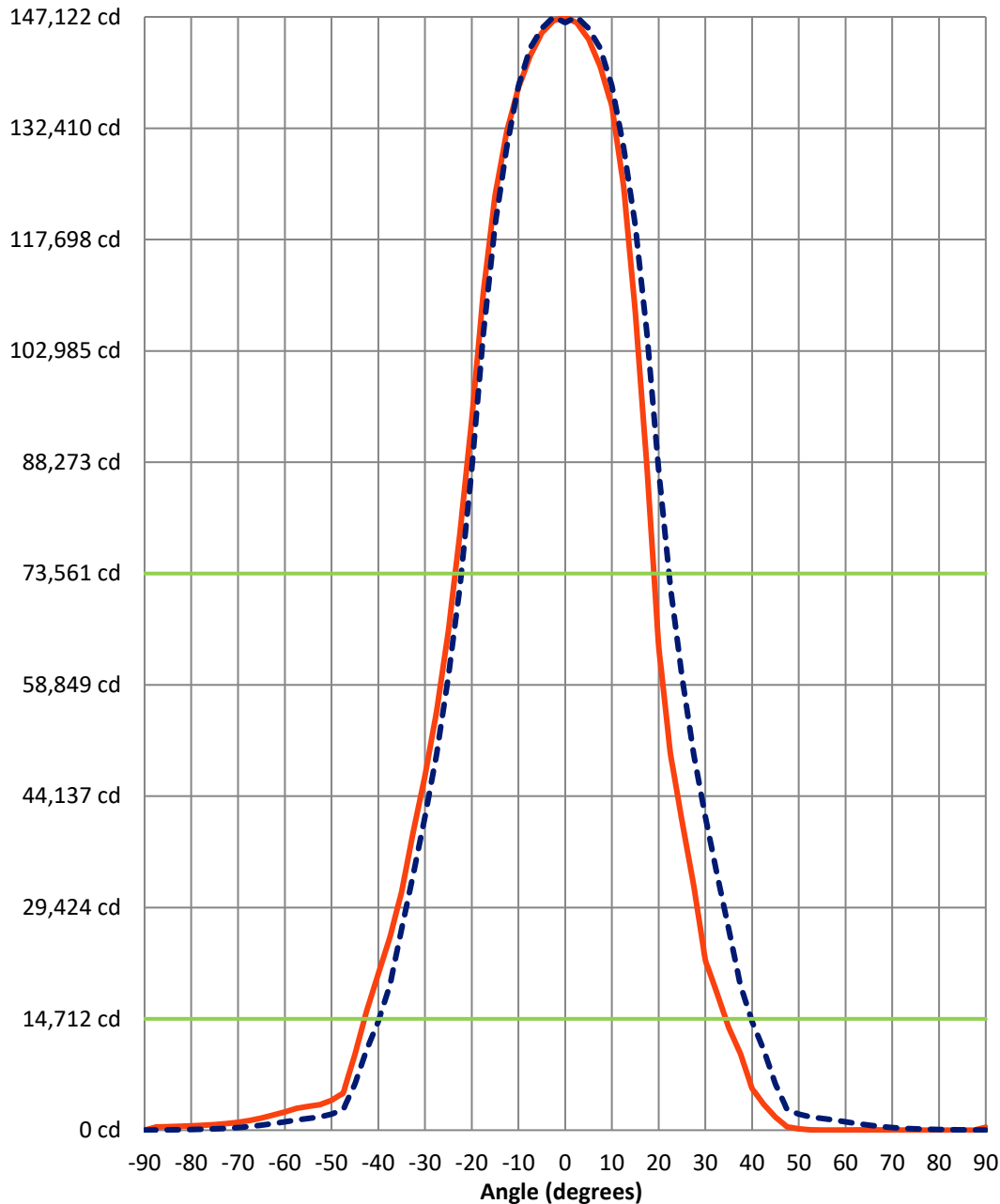
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 52601.3
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 88025.2
 Efficiency: 91.9%

Spill:
 Lumens: 7771.2
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	12.7	24.8	37.0	61.3	85.6	108.1	130.6	149.1	167.6	180.9	194.2
87.5°	12.7	11.8	10.7	10.8	10.8	10.9	11.0	10.5	10.0	9.9	9.7
85°	12.7	12.1	11.0	11.2	11.2	11.4	11.6	11.2	10.9	10.6	10.2
82.5°	12.7	12.3	11.3	11.5	11.6	11.9	12.2	11.9	11.7	11.3	10.8
80°	12.7	12.6	11.7	11.9	12.0	12.4	12.8	12.7	12.5	12.0	11.4
77.5°	12.7	12.8	12.0	12.3	12.4	13.0	13.4	13.4	13.3	12.8	11.9
75°	12.7	13.1	12.4	12.7	12.9	13.7	14.1	14.1	14.1	13.4	12.5
72.5°	12.7	13.4	12.7	13.1	13.7	14.5	14.7	14.8	14.6	13.9	13.1
70°	12.7	13.6	13.1	13.5	14.6	15.3	15.5	15.7	15.3	14.4	14.2
67.5°	12.7	13.9	13.5	14.2	15.4	16.2	16.5	16.6	16.0	15.8	15.4
65°	12.7	14.2	13.9	14.9	16.2	17.1	17.6	17.6	17.6	17.2	17.1
62.5°	12.7	14.5	14.4	15.6	17.1	18.1	18.7	19.1	19.3	19.0	20.0
60°	12.7	14.8	14.8	16.2	17.9	19.1	19.8	20.9	21.1	22.9	23.2
57.5°	12.7	15.0	15.6	16.9	19.1	20.1	21.9	22.9	26.0	27.8	29.6
55°	12.7	15.3	16.4	17.6	20.3	21.1	24.5	25.3	32.2	34.4	38.1
52.5°	12.7	15.6	17.2	18.3	21.7	22.4	27.2	31.8	39.2	44.8	47.6
50°	12.7	15.9	18.1	18.9	23.1	25.6	30.2	38.9	47.6	55.9	61.5
47.5°	12.7	16.2	19.0	19.7	24.7	29.0	33.9	46.1	58.4	67.7	77.1
45°	12.7	16.5	20.0	21.0	26.3	32.5	40.2	53.5	69.4	82.7	93.5
42.5°	12.7	16.7	21.0	22.3	28.1	36.2	46.6	62.5	80.9	98.4	118.4
40°	12.7	17.0	22.1	24.2	30.5	40.1	53.5	72.7	93.5	114.6	146.1
37.5°	12.7	17.3	23.2	26.5	33.6	44.1	60.8	83.1	108.1	134.0	175.2
35°	12.7	17.6	24.3	28.9	36.7	49.4	68.2	93.6	123.2	160.3	209.0
32.5°	12.7	17.9	25.5	31.3	39.8	55.3	76.3	104.7	138.7	187.2	247.3
30°	12.7	18.1	26.7	33.8	42.9	61.2	85.5	116.4	154.5	214.5	285.0
27.5°	12.7	18.4	27.9	36.2	47.1	67.0	94.7	129.1	172.2	242.1	321.9
25°	12.7	18.7	29.1	38.8	51.4	72.7	103.5	141.4	192.6	271.7	358.0
22.5°	12.7	18.9	30.3	41.3	55.6	78.5	112.2	153.1	212.0	297.3	396.3
20°	12.7	19.2	31.6	43.8	59.7	84.8	120.5	164.3	230.1	321.5	428.2
17.5°	12.7	19.4	32.8	46.3	63.7	90.8	128.8	174.9	247.0	344.2	458.4
15°	12.7	19.7	34.0	48.8	67.6	96.6	136.9	185.1	262.7	365.4	487.0
12.5°	12.7	19.9	35.2	51.3	71.4	102.1	144.4	195.3	278.4	384.8	513.9
10°	12.7	20.1	36.4	53.6	75.0	107.3	151.5	204.8	294.0	407.8	542.2
7.5°	12.7	20.3	37.5	56.0	78.5	112.2	158.1	213.7	308.5	430.1	576.1
5°	12.7	20.5	38.5	58.2	81.8	116.8	164.2	221.9	321.6	450.7	608.0
2.5°	12.7	20.6	39.6	60.4	84.9	121.0	169.7	229.3	333.3	469.3	637.3
0°	12.7	20.8	40.5	62.4	87.9	124.9	174.6	235.9	343.4	485.6	663.6
-2.5°	12.7	21.6	42.2	65.2	92.0	130.6	182.0	245.5	355.2	499.4	677.2
-5°	12.7	22.4	43.9	67.8	95.8	135.9	188.9	254.2	365.1	510.5	687.2
-7.5°	12.7	23.1	45.4	70.2	99.5	140.8	195.0	261.9	373.3	518.9	693.7
-10°	12.7	23.9	46.9	72.6	102.9	145.3	200.5	268.6	379.4	524.6	696.8
-12.5°	12.7	24.6	48.3	74.7	106.0	149.2	205.3	274.2	383.6	527.6	701.7
-15°	12.7	25.3	49.6	76.8	108.8	152.7	209.3	278.8	386.0	528.4	704.2
-17.5°	12.7	25.9	50.8	78.6	111.4	155.7	212.5	282.7	386.5	526.2	701.3
-20°	12.7	26.5	51.8	80.3	113.6	158.1	215.5	286.1	385.1	520.8	692.6



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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	12.7	27.1	52.8	81.7	115.6	160.0	218.4	288.3	381.6	512.2	678.7
-25°	12.7	27.6	53.6	83.0	117.2	162.2	220.6	289.6	376.2	500.3	666.6
-27.5°	12.7	28.1	54.4	84.2	118.5	164.4	221.8	289.8	368.8	492.3	657.6
-30°	12.7	28.5	55.0	85.1	119.5	166.0	222.3	288.9	365.7	486.0	643.8
-32.5°	12.7	28.9	55.5	85.8	121.5	167.0	221.8	288.2	365.4	476.2	624.6
-35°	12.7	29.3	55.9	86.3	123.2	167.6	221.9	287.2	363.3	463.2	600.0
-37.5°	12.7	29.6	56.1	86.6	124.6	168.1	221.9	285.4	359.4	446.7	577.8
-40°	12.7	29.8	56.2	86.7	125.6	169.4	221.2	282.5	353.8	436.8	556.3
-42.5°	12.7	30.0	56.3	86.9	126.5	170.2	219.9	278.3	348.2	428.5	531.1
-45°	12.7	30.2	56.1	87.4	127.1	170.6	218.1	274.3	342.0	417.9	504.7
-47.5°	12.7	30.3	55.9	87.7	127.4	170.6	215.4	271.1	334.4	405.1	489.9
-50°	12.7	30.3	55.5	87.7	127.2	170.2	214.4	266.9	324.6	393.6	472.3
-52.5°	12.7	30.3	55.0	87.6	126.6	169.3	213.2	261.7	316.4	379.9	451.2
-55°	12.7	30.3	54.4	87.2	125.6	167.8	211.4	256.0	308.3	364.2	430.0
-57.5°	12.7	30.2	53.7	86.5	124.2	165.8	209.1	253.1	299.0	351.8	406.9
-60°	12.7	30.0	52.8	85.6	122.5	163.3	206.2	249.1	289.8	339.6	384.8
-62.5°	12.7	29.8	52.1	84.5	120.7	160.3	202.3	244.2	283.8	325.5	367.2
-65°	12.7	29.6	51.3	83.1	118.6	156.8	197.9	238.5	277.1	314.5	348.5
-67.5°	12.7	29.3	50.3	81.5	116.2	153.1	192.9	231.6	269.6	304.0	334.0
-70°	12.7	28.9	49.2	79.7	113.5	148.9	187.4	224.2	260.5	292.9	320.9
-72.5°	12.7	28.5	48.0	78.0	110.5	144.3	180.8	216.1	250.7	280.3	307.0
-75°	12.7	28.1	46.7	76.1	107.2	139.2	173.5	206.7	240.2	267.2	292.2
-77.5°	12.7	27.7	45.3	74.1	104.1	133.7	165.7	196.4	227.7	253.2	277.0
-80°	12.7	27.2	43.8	71.9	100.8	128.7	157.4	185.7	214.6	237.2	259.3
-82.5°	12.7	26.6	42.2	69.5	97.3	124.0	151.0	175.5	200.9	220.7	240.4
-85°	12.7	26.1	40.5	66.9	93.6	118.9	144.5	167.0	190.0	206.6	223.0
-87.5°	12.7	25.5	38.8	64.2	89.7	113.6	137.7	158.2	179.0	193.9	208.7
-90°	12.7	11.6	10.4	10.4	10.4	10.4	10.4	9.8	9.2	9.2	9.2



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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°	202.3	210.4	218.0	225.5	234.8	244.0	253.8	263.6	274.0	284.4	294.3
87.5°	9.2	8.7	8.7	8.7	8.2	7.7	7.3	6.9	6.4	5.8	5.7
85°	9.7	9.2	9.3	9.2	8.8	8.4	7.9	7.4	6.9	6.4	6.4
82.5°	10.5	10.4	10.0	9.3	9.1	9.1	8.7	8.2	7.7	7.3	7.1
80°	11.3	11.6	10.7	9.7	9.5	9.3	8.7	8.2	8.1	8.1	7.7
77.5°	11.8	11.7	11.0	10.4	10.0	9.6	9.2	8.8	8.6	8.2	8.1
75°	12.1	11.8	11.4	10.7	10.3	10.2	10.1	9.7	9.5	9.5	9.5
72.5°	12.8	12.5	11.9	11.0	10.7	10.9	11.0	10.6	10.9	11.4	11.3
70°	13.8	13.3	12.6	11.8	11.4	11.8	12.3	13.1	14.0	14.2	15.3
67.5°	14.9	14.4	13.4	12.8	12.5	13.2	13.9	16.8	19.4	20.9	22.6
65°	16.6	15.8	14.7	14.6	13.9	16.8	19.1	22.1	27.6	30.3	30.1
62.5°	18.6	18.8	17.4	17.8	20.1	22.6	26.8	33.1	39.6	42.1	39.8
60°	23.6	22.9	23.0	24.6	27.1	30.2	36.6	44.5	52.0	55.9	49.9
57.5°	30.2	30.0	31.8	32.8	36.2	37.2	45.8	55.6	61.9	66.7	58.8
55°	39.5	39.9	43.3	44.4	46.8	46.7	54.2	63.4	69.9	72.1	63.8
52.5°	52.5	53.1	59.3	60.1	59.3	60.1	62.9	72.7	78.1	78.2	71.0
50°	66.7	74.1	77.9	80.5	76.0	78.8	76.3	87.1	95.3	94.6	97.2
47.5°	87.8	97.7	103.3	107.3	104.0	112.6	110.7	127.5	133.2	165.0	169.9
45°	112.8	128.7	136.1	145.0	155.0	165.4	192.3	192.3	267.5	297.1	375.0
42.5°	140.9	164.6	185.1	188.7	238.6	267.6	304.2	379.5	452.8	545.0	580.1
40°	178.0	204.5	246.0	293.1	348.4	411.5	479.8	571.1	667.5	715.2	721.2
37.5°	219.2	268.8	326.9	412.2	497.2	580.0	666.6	756.0	825.3	843.0	907.7
35°	263.4	336.2	444.6	542.6	641.4	755.9	832.9	915.2	956.8	1029.9	1154.4
32.5°	319.1	405.3	540.1	667.5	777.4	902.0	975.7	1038.8	1136.6	1263.1	1538.2
30°	377.2	483.4	619.6	766.7	902.1	1006.5	1090.5	1169.6	1322.8	1628.6	2571.7
27.5°	425.6	550.4	693.6	857.6	1012.1	1107.4	1202.5	1340.6	1614.5	2244.6	4033.2
25°	469.0	604.5	766.2	956.6	1107.8	1212.7	1336.6	1531.6	1961.2	3671.3	5963.5
22.5°	511.4	657.8	849.1	1060.6	1204.8	1316.3	1503.9	1856.1	2756.4	5160.6	7915.5
20°	555.2	725.9	939.0	1157.2	1297.8	1408.0	1650.0	2171.2	4014.2	6763.8	9638.0
17.5°	601.0	794.7	1026.6	1225.9	1357.5	1504.2	1804.1	2429.6	5064.2	8261.1	11478.4
15°	645.8	860.6	1101.4	1285.2	1412.1	1608.0	2011.0	3192.0	6174.5	9932.9	13446.2
12.5°	688.7	920.5	1159.5	1331.8	1465.9	1704.8	2181.1	4031.8	7509.5	11485.3	15156.9
10°	729.1	974.2	1208.4	1375.7	1524.5	1808.0	2344.8	4854.0	8678.3	12494.1	16212.8
7.5°	770.7	1018.8	1249.6	1417.7	1581.0	1905.4	2525.1	5492.8	9550.9	13270.1	17028.6
5°	808.3	1053.2	1289.3	1464.6	1639.2	1991.7	2670.9	5981.0	10205.6	13911.3	17755.2
2.5°	841.2	1080.3	1323.1	1508.8	1695.9	2064.0	2712.9	6116.8	10513.2	14256.2	18469.9
0°	869.4	1100.7	1350.4	1548.1	1747.0	2122.7	2723.9	6093.0	10589.3	14360.7	19165.8
-2.5°	885.4	1127.0	1399.3	1604.5	1792.7	2170.1	2781.5	6102.0	10653.7	15092.7	20060.7
-5°	896.6	1146.8	1439.4	1654.6	1833.2	2203.4	2813.6	5963.3	10566.7	15478.1	20322.2
-7.5°	902.9	1159.2	1468.9	1696.2	1869.9	2227.6	2831.7	5737.7	10571.5	15495.6	19993.2
-10°	906.2	1171.0	1482.7	1719.5	1901.5	2239.2	2823.0	5350.3	10151.8	15076.1	19451.2
-12.5°	917.2	1181.9	1487.7	1736.8	1926.7	2241.9	2835.9	4971.2	9364.6	14312.6	18676.4
-15°	921.4	1184.8	1484.9	1751.1	1967.3	2269.3	2836.3	4382.3	8342.6	13343.6	17702.1
-17.5°	918.5	1179.3	1476.5	1771.7	2004.9	2271.5	2771.9	3609.9	7175.3	11965.2	16419.3
-20°	908.5	1167.2	1458.0	1781.9	2026.4	2290.3	2753.0	3484.5	6031.4	10241.8	14861.6



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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	894.0	1148.2	1431.5	1759.4	2050.9	2331.5	2727.3	3317.7	4686.2	8273.1	12933.4
-25°	876.6	1127.3	1403.2	1733.5	2062.2	2357.9	2647.3	3094.9	3896.4	6588.6	10546.7
-27.5°	858.5	1097.5	1373.0	1690.5	2055.3	2345.3	2600.2	2971.5	3537.8	4717.1	8060.0
-30°	835.5	1061.8	1328.6	1634.9	1994.5	2306.6	2571.5	2811.8	3198.6	3907.3	5913.8
-32.5°	807.4	1019.9	1279.1	1571.4	1902.7	2260.2	2505.2	2714.0	3008.6	3442.9	4266.2
-35°	775.7	983.0	1224.0	1491.4	1793.9	2143.7	2405.4	2626.3	2825.3	3159.7	3686.1
-37.5°	743.4	937.3	1153.2	1406.7	1694.7	1980.4	2289.2	2509.3	2709.8	2919.6	3294.6
-40°	705.6	880.6	1082.8	1317.2	1561.5	1820.6	2107.1	2382.8	2580.9	2799.6	3024.5
-42.5°	664.2	826.8	1007.5	1210.7	1429.9	1663.0	1917.1	2193.4	2458.9	2667.9	2874.6
-45°	630.9	768.6	927.2	1108.3	1296.9	1504.3	1736.1	1978.1	2260.0	2530.6	2721.8
-47.5°	590.5	710.6	856.9	1000.4	1171.2	1356.2	1554.2	1783.4	2019.8	2286.3	2547.8
-50°	552.0	662.0	774.5	904.0	1048.9	1211.4	1388.0	1589.8	1808.4	2026.8	2264.0
-52.5°	525.6	609.8	705.6	807.7	934.4	1073.7	1230.2	1401.5	1593.1	1783.9	1989.5
-55°	496.6	569.5	638.3	724.8	824.4	945.3	1081.1	1230.8	1377.0	1551.2	1725.8
-57.5°	468.3	528.7	584.0	650.5	733.6	822.4	945.8	1070.4	1197.3	1332.2	1479.8
-60°	439.7	489.2	537.5	591.2	651.8	730.4	816.2	920.4	1024.1	1131.9	1262.4
-62.5°	411.0	451.3	492.8	539.1	590.6	643.7	713.8	789.7	862.5	960.6	1064.7
-65°	388.0	415.8	450.0	490.8	532.3	580.9	629.8	677.3	741.1	815.6	891.0
-67.5°	363.3	389.3	414.5	443.1	480.6	520.7	561.1	603.7	647.0	698.1	753.2
-70°	345.2	363.7	386.0	409.7	434.3	463.4	499.3	534.7	571.1	613.8	657.6
-72.5°	328.2	345.1	361.9	378.4	400.6	424.6	448.5	472.2	502.5	538.8	573.8
-75°	310.7	326.3	341.6	356.6	373.4	391.3	410.0	431.4	455.0	480.2	504.4
-77.5°	292.8	306.6	320.6	334.4	349.8	365.7	382.0	398.4	416.9	436.4	455.3
-80°	273.7	286.7	299.1	311.5	325.3	339.5	354.0	368.6	385.0	401.9	417.6
-82.5°	252.7	264.1	275.8	287.3	300.0	312.7	325.6	338.4	352.9	367.5	380.9
-85°	232.5	241.3	251.6	261.8	273.5	285.0	296.5	308.0	321.2	334.4	346.1
-87.5°	217.4	225.9	234.3	242.6	252.6	262.5	272.4	282.3	293.9	305.6	315.7
-90°	8.7	8.1	8.1	8.1	7.5	6.9	6.9	6.9	6.4	5.8	5.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	304.1	310.5	316.8	322.0	327.2	334.2	341.1	350.4	359.6	368.9	378.1
87.5°	5.6	5.1	4.6	4.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5
85°	6.5	6.4	6.3	6.0	5.6	5.6	5.7	5.6	5.6	5.1	4.6
82.5°	6.9	6.9	6.9	6.4	5.8	5.8	5.8	5.8	5.8	5.2	4.6
80°	7.3	7.2	6.9	6.7	6.5	6.2	5.8	5.4	4.8	4.7	4.6
77.5°	8.2	7.9	7.4	7.2	7.0	6.5	5.9	5.3	4.7	4.6	4.6
75°	9.3	9.0	8.7	8.3	7.7	7.4	7.3	7.0	6.5	6.6	6.7
72.5°	11.2	11.0	11.0	11.3	11.2	11.6	12.1	12.6	13.0	14.0	15.1
70°	16.7	17.8	18.3	18.7	18.6	18.4	18.3	18.6	19.2	19.7	20.2
67.5°	24.4	26.1	27.1	27.6	25.7	24.7	24.8	25.4	26.3	27.9	30.2
65°	31.8	31.3	30.4	29.8	30.1	30.2	30.0	30.4	31.9	34.3	37.3
62.5°	37.3	32.3	29.3	27.8	28.8	30.6	29.4	28.4	29.7	31.3	32.7
60°	42.7	33.3	26.6	24.6	24.3	25.0	22.9	21.1	21.7	22.2	23.0
57.5°	47.7	35.6	24.7	21.1	17.7	15.9	15.4	14.8	14.4	14.1	14.2
55°	52.2	38.8	24.2	21.5	19.1	18.5	17.0	16.2	15.5	15.2	15.6
52.5°	57.9	49.9	39.8	37.0	41.6	42.0	37.2	44.2	49.5	51.9	52.9
50°	94.8	84.9	102.0	100.3	120.3	134.4	129.4	145.1	168.5	183.1	189.2
47.5°	208.3	208.7	242.3	272.1	296.9	329.1	353.9	377.8	411.2	431.8	441.2
45°	395.3	428.9	464.1	515.2	564.3	624.0	695.9	752.4	979.2	1205.1	1410.6
42.5°	605.1	642.0	693.4	804.9	937.2	1243.8	1791.9	2097.9	2479.7	2895.4	3054.9
40°	779.7	833.2	974.5	1288.3	2052.4	2780.0	3579.3	4255.0	4853.2	5197.4	5485.1
37.5°	995.4	1123.3	1766.5	2654.5	3604.6	4516.5	5339.6	6053.8	6673.7	7176.5	7674.1
35°	1309.7	2159.2	3109.5	4264.2	5274.1	6118.8	6971.5	7789.9	8493.0	9244.0	10359.9
32.5°	2482.8	3593.1	4815.4	5850.4	6837.5	7903.4	8799.4	10108.9	11134.4	12503.6	14596.0
30°	3985.1	5378.6	6486.9	7522.2	8787.9	10222.1	11718.3	13721.2	15814.1	17997.3	20244.1
27.5°	5914.0	7321.5	8489.9	9870.8	11542.0	13450.6	16311.3	19134.4	22135.9	24866.1	26941.0
25°	8238.9	9729.5	11726.7	13730.4	16121.9	19383.7	22597.6	26056.7	29065.9	31745.2	34744.3
22.5°	10417.9	12861.3	15498.7	18523.6	22418.0	26096.8	30070.6	33571.0	37347.6	41166.2	44119.5
20°	12257.5	15440.6	19224.0	23584.6	27901.3	32068.6	36693.0	42272.6	47894.9	52917.7	56562.6
17.5°	14738.8	18770.2	23479.6	28662.8	33310.1	38474.5	44910.5	52160.2	60038.2	67008.7	72535.7
15°	17450.1	22157.6	27482.6	32913.6	38793.2	45713.2	53989.0	63247.5	72884.1	82658.2	91764.2
12.5°	19293.3	24808.6	30623.5	37081.2	44414.6	53692.7	63741.7	74005.5	85017.9	97179.2	107742.3
10°	20869.1	26987.7	34003.1	41514.5	49941.2	59914.8	70300.9	82767.5	96513.5	108489.6	119803.5
7.5°	22427.7	29617.4	36945.7	44766.6	54024.7	64857.5	77149.6	90557.0	104546.1	117563.2	126815.4
5°	24271.9	31731.0	39058.8	47320.3	57015.6	68283.8	81249.0	96645.2	111384.2	123349.6	131694.6
2.5°	25796.9	32998.9	40502.2	48679.0	58643.3	70408.2	84479.9	101589.6	116713.3	127901.3	135452.5
0°	26573.3	33810.9	41410.4	49719.7	59934.5	71938.9	87291.6	105265.4	119559.1	129894.6	137981.4
-2.5°	26667.9	33552.8	41012.2	49207.6	59191.0	71433.5	87172.6	105358.6	120299.8	131042.0	139020.7
-5°	26392.3	33212.7	40657.8	48858.3	58706.6	71458.7	87261.8	104749.1	119186.4	130313.6	137827.5
-7.5°	25727.6	32588.2	40047.1	48126.8	57820.3	70188.0	84927.1	100778.2	115628.4	127651.1	134582.7
-10°	24753.9	31494.8	38838.7	46573.2	55714.8	67149.4	80330.9	94842.7	109849.0	121344.3	129338.0
-12.5°	23522.3	29902.0	36922.3	44234.6	52865.5	63518.9	75268.8	87420.2	99999.5	113104.9	121430.8
-15°	22108.5	27938.0	34509.4	41861.0	50394.0	59272.4	68605.7	78505.7	90005.2	100725.1	110416.6
-17.5°	20766.9	25787.6	31919.0	39081.8	46347.9	54062.4	62061.3	70144.0	79365.5	87780.3	95308.1
-20°	19080.8	23355.9	29005.3	35369.6	42121.6	48805.9	55676.5	62225.0	68919.5	75768.7	81747.3



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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°	17093.6	21251.1	25964.5	31506.0	37988.1	43937.3	49440.1	54557.6	59923.6	64662.9	69583.0
-25°	14928.8	18926.1	23257.6	28309.3	33286.2	38679.5	43246.6	47598.7	51760.8	55482.2	59308.2
-27.5°	12270.3	16490.3	20760.0	24803.0	28910.0	32782.4	37040.7	41056.0	44527.1	47597.1	50629.5
-30°	9275.4	13754.5	17793.3	21261.6	24517.5	27747.3	31007.4	34376.7	37662.7	40458.3	42941.9
-32.5°	6843.6	10580.1	14313.3	17712.0	20561.7	23231.1	25766.4	28409.8	30708.2	33068.0	35364.7
-35°	4527.9	7168.8	10268.0	13723.1	16691.0	18936.7	21235.5	23343.1	25075.7	26905.1	28639.0
-37.5°	3810.5	4513.4	6586.6	9391.8	12140.5	14722.9	17015.4	18847.7	20442.2	21903.6	23401.1
-40°	3361.3	3762.2	4352.1	5371.3	7683.0	9954.7	12316.6	14264.2	15962.9	17363.7	18742.5
-42.5°	3066.5	3341.6	3635.5	4036.9	4432.5	5545.1	7483.8	9164.9	10758.2	12336.5	13757.0
-45°	2913.8	3068.1	3236.2	3454.4	3623.7	3925.2	4262.0	4578.3	5846.4	7216.8	8363.8
-47.5°	2730.6	2895.2	3020.8	3123.5	3205.8	3338.3	3478.3	3661.3	3954.9	4301.0	4565.2
-50°	2496.3	2696.1	2821.5	2924.6	2983.6	3034.8	3085.3	3200.0	3359.0	3547.8	3697.6
-52.5°	2193.4	2391.2	2568.7	2702.8	2768.1	2831.7	2895.1	2973.9	3064.4	3173.4	3251.6
-55°	1908.0	2073.2	2226.8	2351.8	2464.5	2567.1	2665.8	2749.4	2847.0	2950.6	3023.5
-57.5°	1637.1	1770.5	1896.5	2004.8	2102.4	2188.7	2289.6	2399.3	2524.1	2643.0	2726.6
-60°	1384.0	1490.1	1594.9	1682.8	1762.2	1833.0	1926.3	2018.3	2127.7	2225.0	2296.0
-62.5°	1157.5	1250.2	1327.7	1394.1	1453.9	1513.1	1591.6	1668.5	1758.5	1836.3	1895.2
-65°	961.8	1039.1	1093.6	1142.9	1186.2	1236.7	1297.4	1359.0	1429.8	1490.3	1538.6
-67.5°	810.8	863.2	897.5	927.9	963.8	1004.0	1049.8	1099.1	1154.1	1199.8	1236.9
-70°	696.7	729.3	750.1	772.8	799.0	826.9	857.9	895.0	936.8	972.5	1003.2
-72.5°	606.3	631.3	648.5	666.0	681.8	700.8	721.7	749.4	780.3	808.2	834.1
-75°	528.0	545.8	561.9	577.2	590.9	607.0	623.7	647.0	672.3	695.3	717.0
-77.5°	475.4	489.2	499.9	510.1	520.0	533.4	547.2	566.0	585.7	604.7	623.1
-80°	433.2	443.8	452.9	460.4	467.3	478.6	490.4	505.8	521.5	537.9	554.2
-82.5°	394.1	403.4	412.1	419.2	425.8	436.1	446.6	460.4	474.2	487.9	501.4
-85°	357.5	366.1	374.2	381.0	387.6	396.0	404.2	416.1	428.0	440.5	452.9
-87.5°	325.8	333.8	341.8	347.1	352.3	359.7	367.1	377.3	387.5	398.1	408.8
-90°	4.6	4.6	4.6	4.1	3.5	3.5	3.5	2.9	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	382.7	387.3	389.6	391.9	389.6	387.3	382.7	378.1	368.9	359.6	350.4
87.5°	2.9	2.3	2.3	2.3	2.3	2.3	2.9	3.5	3.5	3.5	4.0
85°	4.0	3.5	4.0	4.6	4.0	3.5	4.0	4.6	5.1	5.6	5.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.2	5.8	5.8
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.8	5.4
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	5.3
75°	6.3	5.8	5.8	5.8	5.8	5.8	6.3	6.7	6.6	6.5	7.0
72.5°	15.6	15.9	16.6	17.3	16.6	15.9	15.6	15.1	14.0	13.0	12.6
70°	20.5	20.7	20.8	20.8	20.8	20.7	20.5	20.2	19.7	19.2	18.6
67.5°	31.5	32.0	33.3	34.7	33.3	32.0	31.5	30.2	27.9	26.3	25.4
65°	39.4	41.0	41.5	41.6	41.5	41.0	39.4	37.3	34.3	31.9	30.4
62.5°	34.1	35.6	35.9	35.8	35.9	35.6	34.1	32.7	31.3	29.7	28.4
60°	23.8	24.5	24.9	25.4	24.9	24.5	23.8	23.0	22.2	21.7	21.1
57.5°	14.4	15.1	15.1	15.0	15.1	15.1	14.4	14.2	14.1	14.4	14.8
55°	15.8	16.1	15.7	15.0	15.7	16.1	15.8	15.6	15.2	15.5	16.2
52.5°	51.6	48.9	46.3	43.9	46.3	48.9	51.6	52.9	51.9	49.5	44.2
50°	187.3	184.1	179.6	174.6	179.6	184.1	187.3	189.2	183.1	168.5	145.1
47.5°	449.6	450.5	446.1	438.2	446.1	450.5	449.6	441.2	431.8	411.2	377.8
45°	1589.6	1676.1	1722.7	1755.1	1722.7	1676.1	1589.6	1410.6	1205.1	979.2	752.4
42.5°	3194.4	3315.7	3407.9	3426.9	3407.9	3315.7	3194.4	3054.9	2895.4	2479.7	2097.9
40°	5826.1	5846.4	5508.3	4998.1	5508.3	5846.4	5826.1	5485.1	5197.4	4853.2	4255.0
37.5°	8267.2	9120.3	10111.3	10617.1	10111.3	9120.3	8267.2	7674.1	7176.5	6673.7	6053.8
35°	11865.5	13148.7	13564.9	13575.7	13564.9	13148.7	11865.5	10359.9	9244.0	8493.0	7789.9
32.5°	16483.0	17526.3	18083.4	17932.1	18083.4	17526.3	16483.0	14596.0	12503.6	11134.4	10108.9
30°	21553.4	22461.2	22468.4	22164.8	22468.4	22461.2	21553.4	20244.1	17997.3	15814.1	13721.2
27.5°	29088.7	31006.8	32356.8	32720.6	32356.8	31006.8	29088.7	26941.0	24866.1	22135.9	19134.4
25°	37446.8	39554.6	40850.5	41322.5	40850.5	39554.6	37446.8	34744.3	31745.2	29065.9	26056.7
22.5°	46868.1	48917.4	49852.7	50341.7	49852.7	48917.4	46868.1	44119.5	41166.2	37347.6	33571.0
20°	60037.1	62950.8	64049.2	64518.6	64049.2	62950.8	60037.1	56562.6	52917.7	47894.9	42272.6
17.5°	78278.4	84033.1	87631.3	89479.1	87631.3	84033.1	78278.4	72535.7	67008.7	60038.2	52160.2
15°	98503.4	104345.5	108187.4	110491.2	108187.4	104345.5	98503.4	91764.2	82658.2	72884.1	63247.5
12.5°	115853.9	121061.8	124772.8	126978.7	124772.8	121061.8	115853.9	107742.3	97179.2	85017.9	74005.5
10°	126984.8	131451.1	135301.0	137181.3	135301.0	131451.1	126984.8	119803.5	108489.6	96513.5	82767.5
7.5°	133275.6	138468.9	140555.9	141841.9	140555.9	138468.9	133275.6	126815.4	117563.2	104546.1	90557.0
5°	138151.2	142255.2	144181.7	145121.9	144181.7	142255.2	138151.2	131694.6	123349.6	111384.2	96645.2
2.5°	141405.9	144968.7	146331.2	147089.7	146331.2	144968.7	141405.9	135452.5	127901.3	116713.3	101589.6
0°	142967.9	145594.7	147122.0	146377.5	147122.0	145594.7	142967.9	137981.4	129894.6	119559.1	105265.4
-2.5°	142978.8	145475.7	146611.0	146058.4	146611.0	145475.7	142978.8	139020.7	131042.0	120299.8	105358.6
-5°	141755.6	143619.0	145001.9	144558.8	145001.9	143619.0	141755.6	137827.5	130313.6	119186.4	104749.1
-7.5°	138456.8	140933.4	141946.3	141995.6	141946.3	140933.4	138456.8	134582.7	127651.1	115628.4	100778.2
-10°	133918.8	136664.6	137743.0	137853.1	137743.0	136664.6	133918.8	129338.0	121344.3	109849.0	94842.7
-12.5°	127174.1	130395.2	131947.2	132223.7	131947.2	130395.2	127174.1	121430.8	113104.9	99999.5	87420.2
-15°	116704.0	121045.5	123496.1	124356.0	123496.1	121045.5	116704.0	110416.6	100725.1	90005.2	78505.7
-17.5°	102470.3	107657.5	110713.2	111790.8	110713.2	107657.5	102470.3	95308.1	87780.3	79365.5	70144.0
-20°	87623.2	91468.8	93824.4	94795.1	93824.4	91468.8	87623.2	81747.3	75768.7	68919.5	62225.0



REPORT NUMBER: P701574 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	74118.3	77218.9	78969.1	79746.5	78969.1	77218.9	74118.3	69583.0	64662.9	59923.6	54557.6
-25°	62405.4	65016.8	65914.4	66420.5	65914.4	65016.8	62405.4	59308.2	55482.2	51760.8	47598.7
-27.5°	52835.2	54906.8	55390.2	55837.0	55390.2	54906.8	52835.2	50629.5	47597.1	44527.1	41056.0
-30°	44771.1	46573.8	46820.2	47314.9	46820.2	46573.8	44771.1	42941.9	40458.3	37662.7	34376.7
-32.5°	37229.6	38834.8	39449.8	39544.3	39449.8	38834.8	37229.6	35364.7	33068.0	30708.2	28409.8
-35°	30008.0	31066.0	31484.6	31510.1	31484.6	31066.0	30008.0	28639.0	26905.1	25075.7	23343.1
-37.5°	24330.1	25004.6	25489.4	25355.9	25489.4	25004.6	24330.1	23401.1	21903.6	20442.2	18847.7
-40°	19515.1	20193.6	20636.8	20528.9	20636.8	20193.6	19515.1	18742.5	17363.7	15962.9	14264.2
-42.5°	14540.6	15286.8	15705.6	15589.7	15705.6	15286.8	14540.6	13757.0	12336.5	10758.2	9164.9
-45°	9017.7	9675.5	9984.1	9796.2	9984.1	9675.5	9017.7	8363.8	7216.8	5846.4	4578.3
-47.5°	4704.5	4854.2	4902.1	4835.1	4902.1	4854.2	4704.5	4565.2	4301.0	3954.9	3661.3
-50°	3814.4	3908.3	3948.6	3936.7	3948.6	3908.3	3814.4	3697.6	3547.8	3359.0	3200.0
-52.5°	3313.0	3356.4	3370.7	3362.1	3370.7	3356.4	3313.0	3251.6	3173.4	3064.4	2973.9
-55°	3085.1	3128.2	3143.1	3137.8	3143.1	3128.2	3085.1	3023.5	2950.6	2847.0	2749.4
-57.5°	2796.1	2848.9	2881.6	2898.5	2881.6	2848.9	2796.1	2726.6	2643.0	2524.1	2399.3
-60°	2353.1	2395.4	2407.6	2401.4	2407.6	2395.4	2353.1	2296.0	2225.0	2127.7	2018.3
-62.5°	1941.5	1976.3	2002.3	2019.8	2002.3	1976.3	1941.5	1895.2	1836.3	1758.5	1668.5
-65°	1574.1	1599.2	1604.5	1600.1	1604.5	1599.2	1574.1	1538.6	1490.3	1429.8	1359.0
-67.5°	1262.8	1281.4	1283.9	1279.9	1283.9	1281.4	1262.8	1236.9	1199.8	1154.1	1099.1
-70°	1023.8	1039.5	1041.7	1039.4	1041.7	1039.5	1023.8	1003.2	972.5	936.8	895.0
-72.5°	849.2	860.7	869.4	876.4	869.4	860.7	849.2	834.1	808.2	780.3	749.4
-75°	727.9	736.2	738.3	738.8	738.3	736.2	727.9	717.0	695.3	672.3	647.0
-77.5°	632.8	641.1	647.0	652.1	647.0	641.1	632.8	623.1	604.7	585.7	566.0
-80°	561.5	567.8	572.6	576.9	572.6	567.8	561.5	554.2	537.9	521.5	505.8
-82.5°	508.4	514.9	518.9	522.6	518.9	514.9	508.4	501.4	487.9	474.2	460.4
-85°	458.2	463.2	467.0	470.6	467.0	463.2	458.2	452.9	440.5	428.0	416.1
-87.5°	413.6	418.4	420.8	423.2	420.8	418.4	413.6	408.8	398.1	387.5	377.3
-90°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3	2.3	2.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	341.1	334.2	327.2	322.0	316.8	310.5	304.1	294.3	284.4	274.0	263.6
87.5°	4.5	4.5	4.5	4.5	4.6	5.1	5.6	5.7	5.8	6.4	6.9
85°	5.7	5.6	5.6	6.0	6.3	6.4	6.5	6.4	6.4	6.9	7.4
82.5°	5.8	5.8	5.8	6.4	6.9	6.9	6.9	7.1	7.3	7.7	8.2
80°	5.8	6.2	6.5	6.7	6.9	7.2	7.3	7.7	8.1	8.1	8.2
77.5°	5.9	6.5	7.0	7.2	7.4	7.9	8.2	8.1	8.2	8.6	8.8
75°	7.3	7.4	7.7	8.3	8.7	9.0	9.3	9.5	9.5	9.5	9.7
72.5°	12.1	11.6	11.2	11.3	11.0	11.0	11.2	11.3	11.4	10.9	10.6
70°	18.3	18.4	18.6	18.7	18.3	17.8	16.7	15.3	14.2	14.0	13.1
67.5°	24.8	24.7	25.7	27.6	27.1	26.1	24.4	22.6	20.9	19.4	16.8
65°	30.0	30.2	30.1	29.8	30.4	31.3	31.8	30.1	30.3	27.6	22.1
62.5°	29.4	30.6	28.8	27.8	29.3	32.3	37.3	39.8	42.1	39.6	33.1
60°	22.9	25.0	24.3	24.6	26.6	33.3	42.7	49.9	55.9	52.0	44.5
57.5°	15.4	15.9	17.7	21.1	24.7	35.6	47.7	58.8	66.7	61.9	55.6
55°	17.0	18.5	19.1	21.5	24.2	38.8	52.2	63.8	72.1	69.9	63.4
52.5°	37.2	42.0	41.6	37.0	39.8	49.9	57.9	71.0	78.2	78.1	72.7
50°	129.4	134.4	120.3	100.3	102.0	84.9	94.8	97.2	94.6	95.3	87.1
47.5°	353.9	329.1	296.9	272.1	242.3	208.7	208.3	169.9	165.0	133.2	127.5
45°	695.9	624.0	564.3	515.2	464.1	428.9	395.3	375.0	297.1	267.5	192.3
42.5°	1791.9	1243.8	937.2	804.9	693.4	642.0	605.1	580.1	545.0	452.8	379.5
40°	3579.3	2780.0	2052.4	1288.3	974.5	833.2	779.7	721.2	715.2	667.5	571.1
37.5°	5339.6	4516.5	3604.6	2654.5	1766.5	1123.3	995.4	907.7	843.0	825.3	756.0
35°	6971.5	6118.8	5274.1	4264.2	3109.5	2159.2	1309.7	1154.4	1029.9	956.8	915.2
32.5°	8799.4	7903.4	6837.5	5850.4	4815.4	3593.1	2482.8	1538.2	1263.1	1136.6	1038.8
30°	11718.3	10222.1	8787.9	7522.2	6486.9	5378.6	3985.1	2571.7	1628.6	1322.8	1169.6
27.5°	16311.3	13450.6	11542.0	9870.8	8489.9	7321.5	5914.0	4033.2	2244.6	1614.5	1340.6
25°	22597.6	19383.7	16121.9	13730.4	11726.7	9729.5	8238.9	5963.5	3671.3	1961.2	1531.6
22.5°	30070.6	26096.8	22418.0	18523.6	15498.7	12861.3	10417.9	7915.5	5160.6	2756.4	1856.1
20°	36693.0	32068.6	27901.3	23584.6	19224.0	15440.6	12257.5	9638.0	6763.8	4014.2	2171.2
17.5°	44910.5	38474.5	33310.1	28662.8	23479.6	18770.2	14738.8	11478.4	8261.1	5064.2	2429.6
15°	53989.0	45713.2	38793.2	32913.6	27482.6	22157.6	17450.1	13446.2	9932.9	6174.5	3192.0
12.5°	63741.7	53692.7	44414.6	37081.2	30623.5	24808.6	19293.3	15156.9	11485.3	7509.5	4031.8
10°	70300.9	59914.8	49941.2	41514.5	34003.1	26987.7	20869.1	16212.8	12494.1	8678.3	4854.0
7.5°	77149.6	64857.5	54024.7	44766.6	36945.7	29617.4	22427.7	17028.6	13270.1	9550.9	5492.8
5°	81249.0	68283.8	57015.6	47320.3	39058.8	31731.0	24271.9	17755.2	13911.3	10205.6	5981.0
2.5°	84479.9	70408.2	58643.3	48679.0	40502.2	32998.9	25796.9	18469.9	14256.2	10513.2	6116.8
0°	87291.6	71938.9	59934.5	49719.7	41410.4	33810.9	26573.3	19165.8	14360.7	10589.3	6093.0
-2.5°	87172.6	71433.5	59191.0	49207.6	41012.2	33552.8	26667.9	20060.7	15092.7	10653.7	6102.0
-5°	87261.8	71458.7	58706.6	48858.3	40657.8	33212.7	26392.3	20322.2	15478.1	10566.7	5963.3
-7.5°	84927.1	70188.0	57820.3	48126.8	40047.1	32588.2	25727.6	19993.2	15495.6	10571.5	5737.7
-10°	80330.9	67149.4	55714.8	46573.2	38838.7	31494.8	24753.9	19451.2	15076.1	10151.8	5350.3
-12.5°	75268.8	63518.9	52865.5	44234.6	36922.3	29902.0	23522.3	18676.4	14312.6	9364.6	4971.2
-15°	68605.7	59272.4	50394.0	41861.0	34509.4	27938.0	22108.5	17702.1	13343.6	8342.6	4382.3
-17.5°	62061.3	54062.4	46347.9	39081.8	31919.0	25787.6	20766.9	16419.3	11965.2	7175.3	3609.9
-20°	55676.5	48805.9	42121.6	35369.6	29005.3	23355.9	19080.8	14861.6	10241.8	6031.4	3484.5



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 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	49440.1	43937.3	37988.1	31506.0	25964.5	21251.1	17093.6	12933.4	8273.1	4686.2	3317.7
-25°	43246.6	38679.5	33286.2	28309.3	23257.6	18926.1	14928.8	10546.7	6588.6	3896.4	3094.9
-27.5°	37040.7	32782.4	28910.0	24803.0	20760.0	16490.3	12270.3	8060.0	4717.1	3537.8	2971.5
-30°	31007.4	27747.3	24517.5	21261.6	17793.3	13754.5	9275.4	5913.8	3907.3	3198.6	2811.8
-32.5°	25766.4	23231.1	20561.7	17712.0	14313.3	10580.1	6843.6	4266.2	3442.9	3008.6	2714.0
-35°	21235.5	18936.7	16691.0	13723.1	10268.0	7168.8	4527.9	3686.1	3159.7	2825.3	2626.3
-37.5°	17015.4	14722.9	12140.5	9391.8	6586.6	4513.4	3810.5	3294.6	2919.6	2709.8	2509.3
-40°	12316.6	9954.7	7683.0	5371.3	4352.1	3762.2	3361.3	3024.5	2799.6	2580.9	2382.8
-42.5°	7483.8	5545.1	4432.5	4036.9	3635.5	3341.6	3066.5	2874.6	2667.9	2458.9	2193.4
-45°	4262.0	3925.2	3623.7	3454.4	3236.2	3068.1	2913.8	2721.8	2530.6	2260.0	1978.1
-47.5°	3478.3	3338.3	3205.8	3123.5	3020.8	2895.2	2730.6	2547.8	2286.3	2019.8	1783.4
-50°	3085.3	3034.8	2983.6	2924.6	2821.5	2696.1	2496.3	2264.0	2026.8	1808.4	1589.8
-52.5°	2895.1	2831.7	2768.1	2702.8	2568.7	2391.2	2193.4	1989.5	1783.9	1593.1	1401.5
-55°	2665.8	2567.1	2464.5	2351.8	2226.8	2073.2	1908.0	1725.8	1551.2	1377.0	1230.8
-57.5°	2289.6	2188.7	2102.4	2004.8	1896.5	1770.5	1637.1	1479.8	1332.2	1197.3	1070.4
-60°	1926.3	1833.0	1762.2	1682.8	1594.9	1490.1	1384.0	1262.4	1131.9	1024.1	920.4
-62.5°	1591.6	1513.1	1453.9	1394.1	1327.7	1250.2	1157.5	1064.7	960.6	862.5	789.7
-65°	1297.4	1236.7	1186.2	1142.9	1093.6	1039.1	961.8	891.0	815.6	741.1	677.3
-67.5°	1049.8	1004.0	963.8	927.9	897.5	863.2	810.8	753.2	698.1	647.0	603.7
-70°	857.9	826.9	799.0	772.8	750.1	729.3	696.7	657.6	613.8	571.1	534.7
-72.5°	721.7	700.8	681.8	666.0	648.5	631.3	606.3	573.8	538.8	502.5	472.2
-75°	623.7	607.0	590.9	577.2	561.9	545.8	528.0	504.4	480.2	455.0	431.4
-77.5°	547.2	533.4	520.0	510.1	499.9	489.2	475.4	455.3	436.4	416.9	398.4
-80°	490.4	478.6	467.3	460.4	452.9	443.8	433.2	417.6	401.9	385.0	368.6
-82.5°	446.6	436.1	425.8	419.2	412.1	403.4	394.1	380.9	367.5	352.9	338.4
-85°	404.2	396.0	387.6	381.0	374.2	366.1	357.5	346.1	334.4	321.2	308.0
-87.5°	367.1	359.7	352.3	347.1	341.8	333.8	325.8	315.7	305.6	293.9	282.3
-90°	3.5	3.5	3.5	4.1	4.6	4.6	4.6	5.2	5.8	6.4	6.9



REPORT NUMBER: P701574 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	253.8	244.0	234.8	225.5	218.0	210.4	202.3	194.2	180.9	167.6	149.1
87.5°	7.3	7.7	8.2	8.7	8.7	8.7	9.2	9.7	9.9	10.0	10.5
85°	7.9	8.4	8.8	9.2	9.3	9.2	9.7	10.2	10.6	10.9	11.2
82.5°	8.7	9.1	9.1	9.3	10.0	10.4	10.5	10.8	11.3	11.7	11.9
80°	8.7	9.3	9.5	9.7	10.7	11.6	11.3	11.4	12.0	12.5	12.7
77.5°	9.2	9.6	10.0	10.4	11.0	11.7	11.8	11.9	12.8	13.3	13.4
75°	10.1	10.2	10.3	10.7	11.4	11.8	12.1	12.5	13.4	14.1	14.1
72.5°	11.0	10.9	10.7	11.0	11.9	12.5	12.8	13.1	13.9	14.6	14.8
70°	12.3	11.8	11.4	11.8	12.6	13.3	13.8	14.2	14.4	15.3	15.7
67.5°	13.9	13.2	12.5	12.8	13.4	14.4	14.9	15.4	15.8	16.0	16.6
65°	19.1	16.8	13.9	14.6	14.7	15.8	16.6	17.1	17.2	17.6	17.6
62.5°	26.8	22.6	20.1	17.8	17.4	18.8	18.6	20.0	19.0	19.3	19.1
60°	36.6	30.2	27.1	24.6	23.0	22.9	23.6	23.2	22.9	21.1	20.9
57.5°	45.8	37.2	36.2	32.8	31.8	30.0	30.2	29.6	27.8	26.0	22.9
55°	54.2	46.7	46.8	44.4	43.3	39.9	39.5	38.1	34.4	32.2	25.3
52.5°	62.9	60.1	59.3	60.1	59.3	53.1	52.5	47.6	44.8	39.2	31.8
50°	76.3	78.8	76.0	80.5	77.9	74.1	66.7	61.5	55.9	47.6	38.9
47.5°	110.7	112.6	104.0	107.3	103.3	97.7	87.8	77.1	67.7	58.4	46.1
45°	192.3	165.4	155.0	145.0	136.1	128.7	112.8	93.5	82.7	69.4	53.5
42.5°	304.2	267.6	238.6	188.7	185.1	164.6	140.9	118.4	98.4	80.9	62.5
40°	479.8	411.5	348.4	293.1	246.0	204.5	178.0	146.1	114.6	93.5	72.7
37.5°	666.6	580.0	497.2	412.2	326.9	268.8	219.2	175.2	134.0	108.1	83.1
35°	832.9	755.9	641.4	542.6	444.6	336.2	263.4	209.0	160.3	123.2	93.6
32.5°	975.7	902.0	777.4	667.5	540.1	405.3	319.1	247.3	187.2	138.7	104.7
30°	1090.5	1006.5	902.1	766.7	619.6	483.4	377.2	285.0	214.5	154.5	116.4
27.5°	1202.5	1107.4	1012.1	857.6	693.6	550.4	425.6	321.9	242.1	172.2	129.1
25°	1336.6	1212.7	1107.8	956.6	766.2	604.5	469.0	358.0	271.7	192.6	141.4
22.5°	1503.9	1316.3	1204.8	1060.6	849.1	657.8	511.4	396.3	297.3	212.0	153.1
20°	1650.0	1408.0	1297.8	1157.2	939.0	725.9	555.2	428.2	321.5	230.1	164.3
17.5°	1804.1	1504.2	1357.5	1225.9	1026.6	794.7	601.0	458.4	344.2	247.0	174.9
15°	2011.0	1608.0	1412.1	1285.2	1101.4	860.6	645.8	487.0	365.4	262.7	185.1
12.5°	2181.1	1704.8	1465.9	1331.8	1159.5	920.5	688.7	513.9	384.8	278.4	195.3
10°	2344.8	1808.0	1524.5	1375.7	1208.4	974.2	729.1	542.2	407.8	294.0	204.8
7.5°	2525.1	1905.4	1581.0	1417.7	1249.6	1018.8	770.7	576.1	430.1	308.5	213.7
5°	2670.9	1991.7	1639.2	1464.6	1289.3	1053.2	808.3	608.0	450.7	321.6	221.9
2.5°	2712.9	2064.0	1695.9	1508.8	1323.1	1080.3	841.2	637.3	469.3	333.3	229.3
0°	2723.9	2122.7	1747.0	1548.1	1350.4	1100.7	869.4	663.6	485.6	343.4	235.9
-2.5°	2781.5	2170.1	1792.7	1604.5	1399.3	1127.0	885.4	677.2	499.4	355.2	245.5
-5°	2813.6	2203.4	1833.2	1654.6	1439.4	1146.8	896.6	687.2	510.5	365.1	254.2
-7.5°	2831.7	2227.6	1869.9	1696.2	1468.9	1159.2	902.9	693.7	518.9	373.3	261.9
-10°	2823.0	2239.2	1901.5	1719.5	1482.7	1171.0	906.2	696.8	524.6	379.4	268.6
-12.5°	2835.9	2241.9	1926.7	1736.8	1487.7	1181.9	917.2	701.7	527.6	383.6	274.2
-15°	2836.3	2269.3	1967.3	1751.1	1484.9	1184.8	921.4	704.2	528.4	386.0	278.8
-17.5°	2771.9	2271.5	2004.9	1771.7	1476.5	1179.3	918.5	701.3	526.2	386.5	282.7
-20°	2753.0	2290.3	2026.4	1781.9	1458.0	1167.2	908.5	692.6	520.8	385.1	286.1



REPORT NUMBER: P701574 (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°	2727.3	2331.5	2050.9	1759.4	1431.5	1148.2	894.0	678.7	512.2	381.6	288.3
-25°	2647.3	2357.9	2062.2	1733.5	1403.2	1127.3	876.6	666.6	500.3	376.2	289.6
-27.5°	2600.2	2345.3	2055.3	1690.5	1373.0	1097.5	858.5	657.6	492.3	368.8	289.8
-30°	2571.5	2306.6	1994.5	1634.9	1328.6	1061.8	835.5	643.8	486.0	365.7	288.9
-32.5°	2505.2	2260.2	1902.7	1571.4	1279.1	1019.9	807.4	624.6	476.2	365.4	288.2
-35°	2405.4	2143.7	1793.9	1491.4	1224.0	983.0	775.7	600.0	463.2	363.3	287.2
-37.5°	2289.2	1980.4	1694.7	1406.7	1153.2	937.3	743.4	577.8	446.7	359.4	285.4
-40°	2107.1	1820.6	1561.5	1317.2	1082.8	880.6	705.6	556.3	436.8	353.8	282.5
-42.5°	1917.1	1663.0	1429.9	1210.7	1007.5	826.8	664.2	531.1	428.5	348.2	278.3
-45°	1736.1	1504.3	1296.9	1108.3	927.2	768.6	630.9	504.7	417.9	342.0	274.3
-47.5°	1554.2	1356.2	1171.2	1000.4	856.9	710.6	590.5	489.9	405.1	334.4	271.1
-50°	1388.0	1211.4	1048.9	904.0	774.5	662.0	552.0	472.3	393.6	324.6	266.9
-52.5°	1230.2	1073.7	934.4	807.7	705.6	609.8	525.6	451.2	379.9	316.4	261.7
-55°	1081.1	945.3	824.4	724.8	638.3	569.5	496.6	430.0	364.2	308.3	256.0
-57.5°	945.8	822.4	733.6	650.5	584.0	528.7	468.3	406.9	351.8	299.0	253.1
-60°	816.2	730.4	651.8	591.2	537.5	489.2	439.7	384.8	339.6	289.8	249.1
-62.5°	713.8	643.7	590.6	539.1	492.8	451.3	411.0	367.2	325.5	283.8	244.2
-65°	629.8	580.9	532.3	490.8	450.0	415.8	388.0	348.5	314.5	277.1	238.5
-67.5°	561.1	520.7	480.6	443.1	414.5	389.3	363.3	334.0	304.0	269.6	231.6
-70°	499.3	463.4	434.3	409.7	386.0	363.7	345.2	320.9	292.9	260.5	224.2
-72.5°	448.5	424.6	400.6	378.4	361.9	345.1	328.2	307.0	280.3	250.7	216.1
-75°	410.0	391.3	373.4	356.6	341.6	326.3	310.7	292.2	267.2	240.2	206.7
-77.5°	382.0	365.7	349.8	334.4	320.6	306.6	292.8	277.0	253.2	227.7	196.4
-80°	354.0	339.5	325.3	311.5	299.1	286.7	273.7	259.3	237.2	214.6	185.7
-82.5°	325.6	312.7	300.0	287.3	275.8	264.1	252.7	240.4	220.7	200.9	175.5
-85°	296.5	285.0	273.5	261.8	251.6	241.3	232.5	223.0	206.6	190.0	167.0
-87.5°	272.4	262.5	252.6	242.6	234.3	225.9	217.4	208.7	193.9	179.0	158.2
-90°	6.9	6.9	7.5	8.1	8.1	8.1	8.7	9.2	9.2	9.2	9.8



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	130.6	108.1	85.6	61.3	37.0	24.8	12.7
87.5°	11.0	10.9	10.8	10.8	10.7	11.8	12.7
85°	11.6	11.4	11.2	11.2	11.0	12.1	12.7
82.5°	12.2	11.9	11.6	11.5	11.3	12.3	12.7
80°	12.8	12.4	12.0	11.9	11.7	12.6	12.7
77.5°	13.4	13.0	12.4	12.3	12.0	12.8	12.7
75°	14.1	13.7	12.9	12.7	12.4	13.1	12.7
72.5°	14.7	14.5	13.7	13.1	12.7	13.4	12.7
70°	15.5	15.3	14.6	13.5	13.1	13.6	12.7
67.5°	16.5	16.2	15.4	14.2	13.5	13.9	12.7
65°	17.6	17.1	16.2	14.9	13.9	14.2	12.7
62.5°	18.7	18.1	17.1	15.6	14.4	14.5	12.7
60°	19.8	19.1	17.9	16.2	14.8	14.8	12.7
57.5°	21.9	20.1	19.1	16.9	15.6	15.0	12.7
55°	24.5	21.1	20.3	17.6	16.4	15.3	12.7
52.5°	27.2	22.4	21.7	18.3	17.2	15.6	12.7
50°	30.2	25.6	23.1	18.9	18.1	15.9	12.7
47.5°	33.9	29.0	24.7	19.7	19.0	16.2	12.7
45°	40.2	32.5	26.3	21.0	20.0	16.5	12.7
42.5°	46.6	36.2	28.1	22.3	21.0	16.7	12.7
40°	53.5	40.1	30.5	24.2	22.1	17.0	12.7
37.5°	60.8	44.1	33.6	26.5	23.2	17.3	12.7
35°	68.2	49.4	36.7	28.9	24.3	17.6	12.7
32.5°	76.3	55.3	39.8	31.3	25.5	17.9	12.7
30°	85.5	61.2	42.9	33.8	26.7	18.1	12.7
27.5°	94.7	67.0	47.1	36.2	27.9	18.4	12.7
25°	103.5	72.7	51.4	38.8	29.1	18.7	12.7
22.5°	112.2	78.5	55.6	41.3	30.3	18.9	12.7
20°	120.5	84.8	59.7	43.8	31.6	19.2	12.7
17.5°	128.8	90.8	63.7	46.3	32.8	19.4	12.7
15°	136.9	96.6	67.6	48.8	34.0	19.7	12.7
12.5°	144.4	102.1	71.4	51.3	35.2	19.9	12.7
10°	151.5	107.3	75.0	53.6	36.4	20.1	12.7
7.5°	158.1	112.2	78.5	56.0	37.5	20.3	12.7
5°	164.2	116.8	81.8	58.2	38.5	20.5	12.7
2.5°	169.7	121.0	84.9	60.4	39.6	20.6	12.7
0°	174.6	124.9	87.9	62.4	40.5	20.8	12.7
-2.5°	182.0	130.6	92.0	65.2	42.2	21.6	12.7
-5°	188.9	135.9	95.8	67.8	43.9	22.4	12.7
-7.5°	195.0	140.8	99.5	70.2	45.4	23.1	12.7
-10°	200.5	145.3	102.9	72.6	46.9	23.9	12.7
-12.5°	205.3	149.2	106.0	74.7	48.3	24.6	12.7
-15°	209.3	152.7	108.8	76.8	49.6	25.3	12.7
-17.5°	212.5	155.7	111.4	78.6	50.8	25.9	12.7
-20°	215.5	158.1	113.6	80.3	51.8	26.5	12.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	218.4	160.0	115.6	81.7	52.8	27.1	12.7
-25°	220.6	162.2	117.2	83.0	53.6	27.6	12.7
-27.5°	221.8	164.4	118.5	84.2	54.4	28.1	12.7
-30°	222.3	166.0	119.5	85.1	55.0	28.5	12.7
-32.5°	221.8	167.0	121.5	85.8	55.5	28.9	12.7
-35°	221.9	167.6	123.2	86.3	55.9	29.3	12.7
-37.5°	221.9	168.1	124.6	86.6	56.1	29.6	12.7
-40°	221.2	169.4	125.6	86.7	56.2	29.8	12.7
-42.5°	219.9	170.2	126.5	86.9	56.3	30.0	12.7
-45°	218.1	170.6	127.1	87.4	56.1	30.2	12.7
-47.5°	215.4	170.6	127.4	87.7	55.9	30.3	12.7
-50°	214.4	170.2	127.2	87.7	55.5	30.3	12.7
-52.5°	213.2	169.3	126.6	87.6	55.0	30.3	12.7
-55°	211.4	167.8	125.6	87.2	54.4	30.3	12.7
-57.5°	209.1	165.8	124.2	86.5	53.7	30.2	12.7
-60°	206.2	163.3	122.5	85.6	52.8	30.0	12.7
-62.5°	202.3	160.3	120.7	84.5	52.1	29.8	12.7
-65°	197.9	156.8	118.6	83.1	51.3	29.6	12.7
-67.5°	192.9	153.1	116.2	81.5	50.3	29.3	12.7
-70°	187.4	148.9	113.5	79.7	49.2	28.9	12.7
-72.5°	180.8	144.3	110.5	78.0	48.0	28.5	12.7
-75°	173.5	139.2	107.2	76.1	46.7	28.1	12.7
-77.5°	165.7	133.7	104.1	74.1	45.3	27.7	12.7
-80°	157.4	128.7	100.8	71.9	43.8	27.2	12.7
-82.5°	151.0	124.0	97.3	69.5	42.2	26.6	12.7
-85°	144.5	118.9	93.6	66.9	40.5	26.1	12.7
-87.5°	137.7	113.6	89.7	64.2	38.8	25.5	12.7
-90°	10.4	10.4	10.4	10.4	10.4	11.6	12.7

(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

