

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: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-5S-HEG-S**

Issue Date: 8/15/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-5S-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

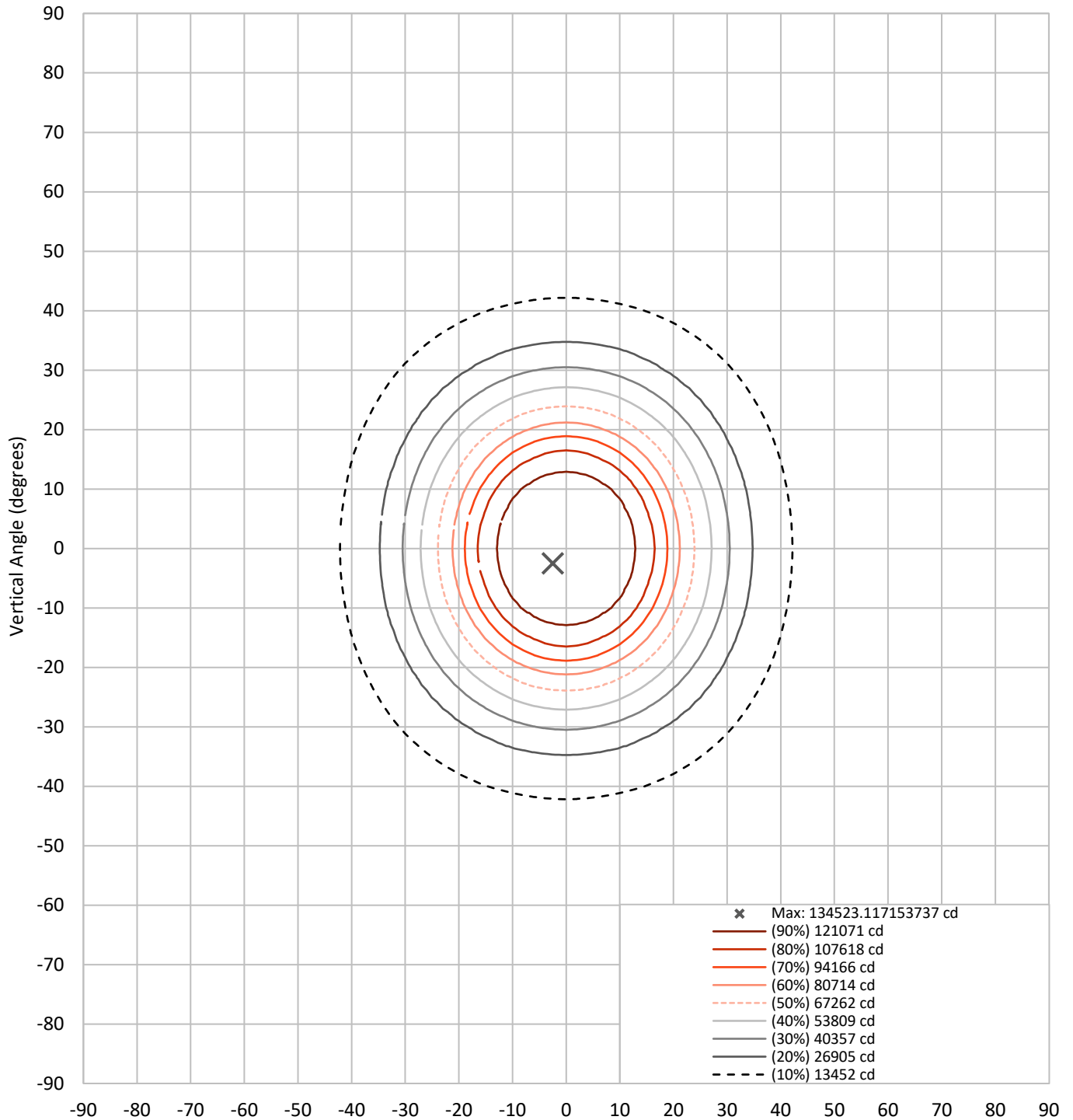
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	98328.3 lumens	Max Intensity:	134523.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	149.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	55162.1 lumens	Field Lumens:	91617.6 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

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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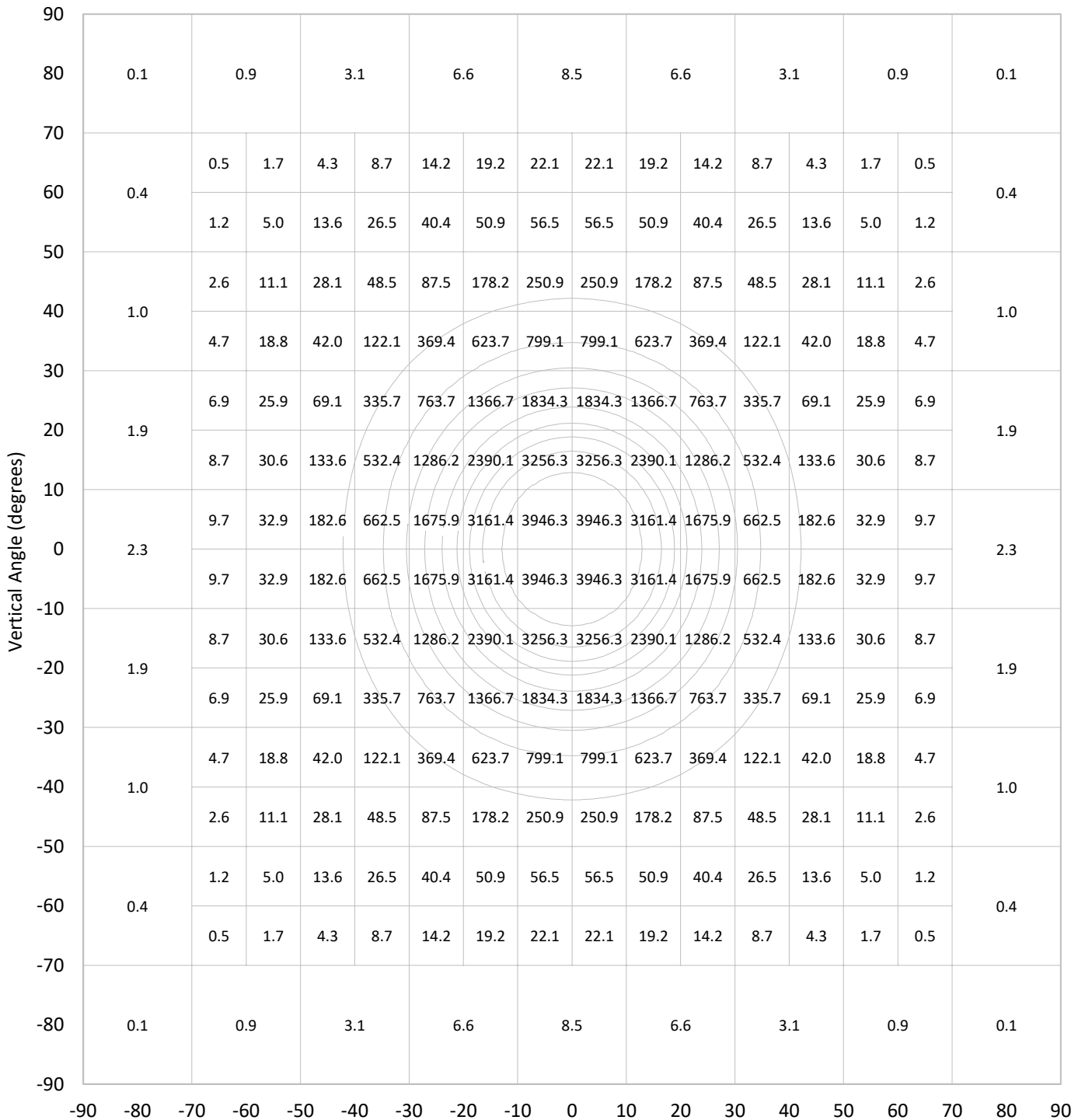
### Iso-Candela Plot





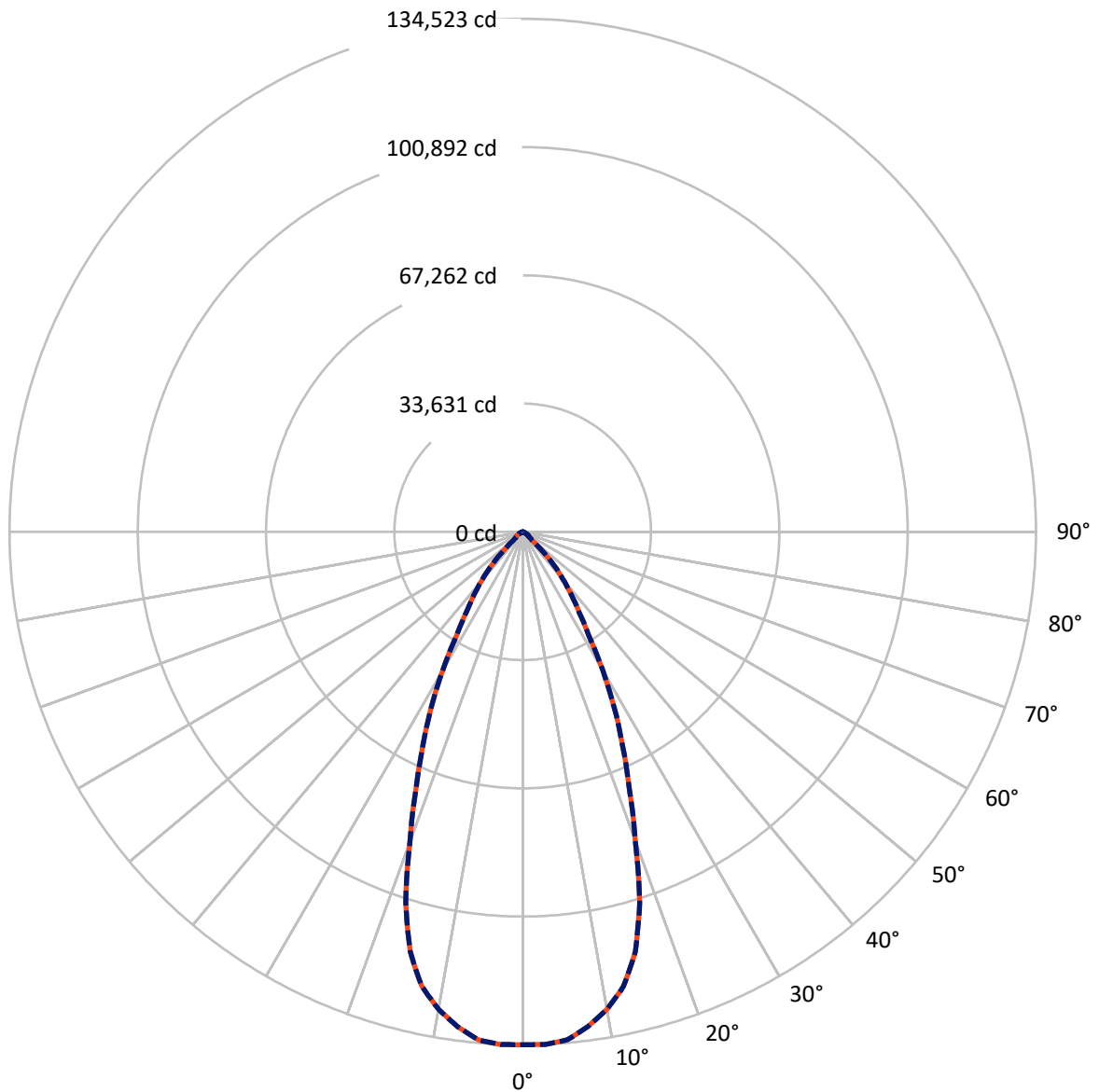
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### Lumen Table



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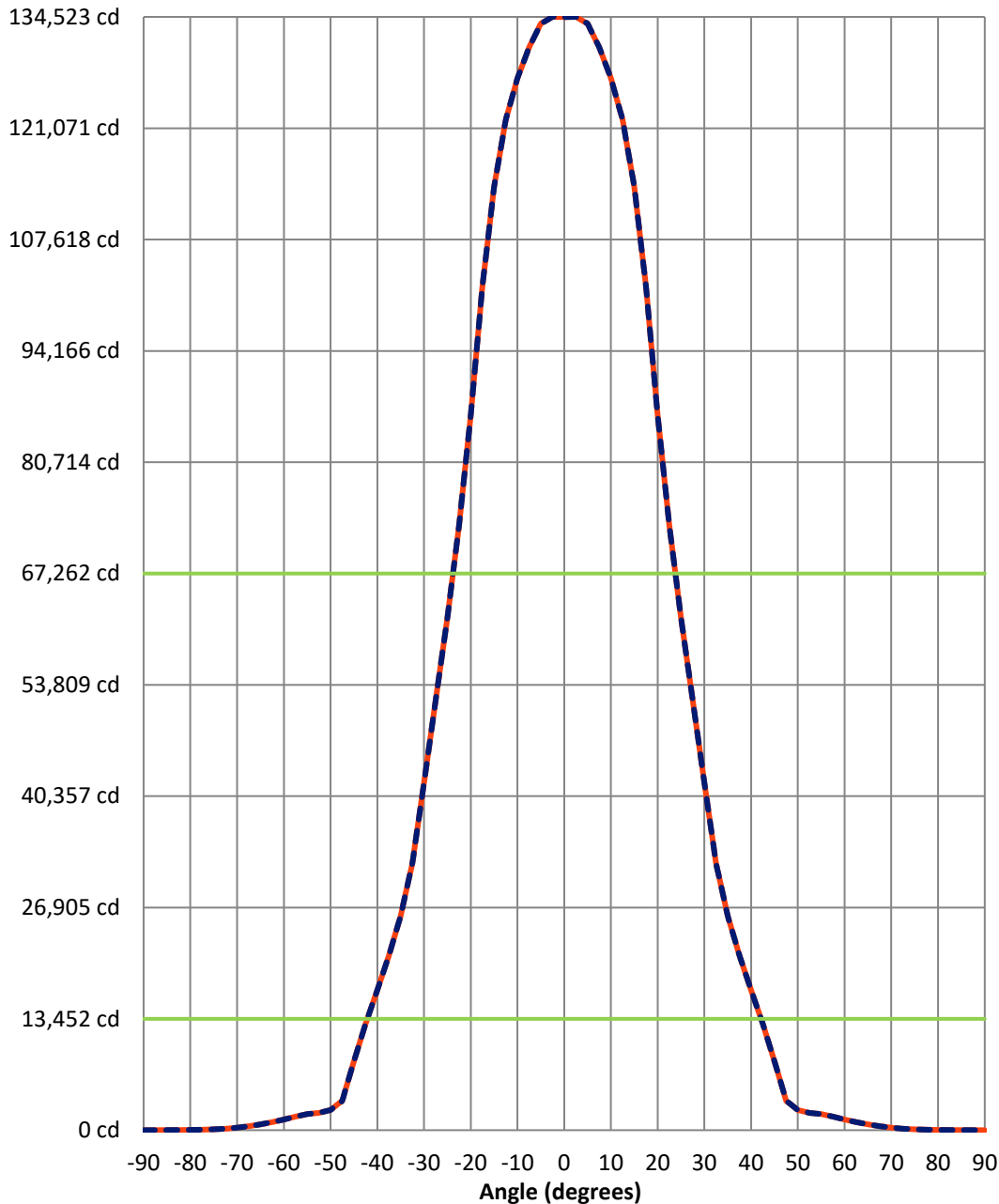
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 47.6°  
 V Angle: 47.6°  
 Lumens: 55162.1  
 Efficiency: 56.1%

**Field:**  
 H Angle: 84.3°  
 V Angle: 84.3°  
 Lumens: 91617.6  
 Efficiency: 93.2%

**Spill:**  
 Lumens: 6710.7  
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.7	7.5	8.2
80°	0.0	1.1	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.0
77.5°	0.0	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.1	12.4	13.9
75°	0.0	1.7	3.4	5.0	6.7	8.4	10.0	11.7	13.4	15.3	17.2
72.5°	0.0	2.0	3.9	5.8	7.8	9.8	11.7	13.7	16.0	18.3	20.6
70°	0.0	2.2	4.4	6.7	8.9	11.1	13.4	16.0	18.7	21.3	24.9
67.5°	0.0	2.5	5.0	7.5	10.0	12.4	15.3	18.3	21.3	25.4	29.5
65°	0.0	2.7	5.5	8.2	11.0	13.9	17.2	20.6	24.9	29.5	35.7
62.5°	0.0	3.0	6.0	9.0	12.0	15.5	19.1	23.4	28.5	34.6	45.8
60°	0.0	3.2	6.5	9.8	13.0	17.0	21.0	26.5	32.0	43.5	55.7
57.5°	0.0	3.5	7.0	10.5	14.2	18.5	23.5	29.5	38.9	52.2	70.6
55°	0.0	3.7	7.5	11.2	15.4	20.0	26.0	32.4	46.4	62.2	87.7
52.5°	0.0	4.0	7.9	11.9	16.6	21.5	28.4	38.4	53.8	77.2	104.4
50°	0.0	4.2	8.4	12.6	17.7	23.5	30.8	44.7	62.6	91.7	127.0
47.5°	0.0	4.4	8.8	13.3	18.7	25.4	33.4	50.7	75.1	105.8	149.7
45°	0.0	4.6	9.2	14.1	19.8	27.2	38.4	56.5	87.1	125.3	171.6
42.5°	0.0	4.8	9.6	14.8	20.7	28.9	43.1	64.6	98.6	144.2	208.9
40°	0.0	5.0	10.0	15.5	21.9	30.6	47.7	74.3	111.3	162.3	247.3
37.5°	0.0	5.2	10.4	16.2	23.1	32.2	52.0	83.4	126.5	183.8	283.9
35°	0.0	5.3	10.7	16.8	24.3	34.9	56.1	92.1	141.0	214.9	323.4
32.5°	0.0	5.5	11.0	17.4	25.4	38.1	60.9	100.3	154.5	244.1	368.0
30°	0.0	5.6	11.3	17.9	26.5	41.1	67.4	108.7	167.3	271.6	409.8
27.5°	0.0	5.8	11.6	18.4	27.5	43.9	73.4	119.0	183.1	297.1	448.8
25°	0.0	5.9	11.9	18.9	28.4	46.4	79.0	128.5	203.8	326.2	485.1
22.5°	0.0	6.0	12.1	19.3	29.2	48.7	84.0	137.1	222.8	355.5	526.1
20°	0.0	6.1	12.3	19.7	29.9	50.8	88.6	144.9	239.9	381.9	563.1
17.5°	0.0	6.2	12.5	20.1	30.6	52.7	92.7	151.8	255.0	405.3	596.0
15°	0.0	6.3	12.6	20.4	31.1	54.3	96.2	157.8	268.3	425.8	624.7
12.5°	0.0	6.3	12.8	20.6	31.6	55.7	99.2	163.0	279.5	443.2	649.2
10°	0.0	6.4	12.9	20.8	32.0	56.8	101.7	167.2	288.8	457.6	669.3
7.5°	0.0	6.4	13.0	21.0	32.3	57.7	103.6	170.5	296.0	468.8	685.0
5°	0.0	6.5	13.0	21.1	32.5	58.3	105.0	172.8	301.2	476.8	696.3
2.5°	0.0	6.5	13.1	21.2	32.7	58.7	105.8	174.2	304.3	481.6	703.0
0°	0.0	6.5	13.1	21.2	32.7	58.8	106.1	174.7	305.3	483.2	705.3
-2.5°	0.0	6.5	13.1	21.2	32.7	58.8	106.1	174.7	305.3	483.2	705.3
-5°	0.0	6.5	13.0	21.1	32.5	58.3	105.0	172.8	301.2	476.8	696.3
-7.5°	0.0	6.4	13.0	21.0	32.3	57.7	103.6	170.5	296.0	468.8	685.0
-10°	0.0	6.4	12.9	20.8	32.0	56.8	101.7	167.2	288.8	457.6	669.3
-12.5°	0.0	6.3	12.8	20.6	31.6	55.7	99.2	163.0	279.5	443.2	649.2
-15°	0.0	6.3	12.6	20.4	31.1	54.3	96.2	157.8	268.3	425.8	624.7
-17.5°	0.0	6.2	12.5	20.1	30.6	52.7	92.7	151.8	255.0	405.3	596.0
-20°	0.0	6.1	12.3	19.7	29.9	50.8	88.6	144.9	239.9	381.9	563.1



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.0	12.1	19.3	29.2	48.7	84.0	137.1	222.8	355.5	526.1
-25°	0.0	5.9	11.9	18.9	28.4	46.4	79.0	128.5	203.8	326.2	485.1
-27.5°	0.0	5.8	11.6	18.4	27.5	43.9	73.4	119.0	183.1	297.1	448.8
-30°	0.0	5.6	11.3	17.9	26.5	41.1	67.4	108.7	167.3	271.6	409.8
-32.5°	0.0	5.5	11.0	17.4	25.4	38.1	60.9	100.3	154.5	244.1	368.0
-35°	0.0	5.3	10.7	16.8	24.3	34.9	56.1	92.1	141.0	214.9	323.4
-37.5°	0.0	5.2	10.4	16.2	23.1	32.2	52.0	83.4	126.5	183.8	283.9
-40°	0.0	5.0	10.0	15.5	21.9	30.6	47.7	74.3	111.3	162.3	247.3
-42.5°	0.0	4.8	9.6	14.8	20.7	28.9	43.1	64.6	98.6	144.2	208.9
-45°	0.0	4.6	9.2	14.1	19.8	27.2	38.4	56.5	87.1	125.3	171.6
-47.5°	0.0	4.4	8.8	13.3	18.7	25.4	33.4	50.7	75.1	105.8	149.7
-50°	0.0	4.2	8.4	12.6	17.7	23.5	30.8	44.7	62.6	91.7	127.0
-52.5°	0.0	4.0	7.9	11.9	16.6	21.5	28.4	38.4	53.8	77.2	104.4
-55°	0.0	3.7	7.5	11.2	15.4	20.0	26.0	32.4	46.4	62.2	87.7
-57.5°	0.0	3.5	7.0	10.5	14.2	18.5	23.5	29.5	38.9	52.2	70.6
-60°	0.0	3.2	6.5	9.8	13.0	17.0	21.0	26.5	32.0	43.5	55.7
-62.5°	0.0	3.0	6.0	9.0	12.0	15.5	19.1	23.4	28.5	34.6	45.8
-65°	0.0	2.7	5.5	8.2	11.0	13.9	17.2	20.6	24.9	29.5	35.7
-67.5°	0.0	2.5	5.0	7.5	10.0	12.4	15.3	18.3	21.3	25.4	29.5
-70°	0.0	2.2	4.4	6.7	8.9	11.1	13.4	16.0	18.7	21.3	24.9
-72.5°	0.0	2.0	3.9	5.8	7.8	9.8	11.7	13.7	16.0	18.3	20.6
-75°	0.0	1.7	3.4	5.0	6.7	8.4	10.0	11.7	13.4	15.3	17.2
-77.5°	0.0	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.1	12.4	13.9
-80°	0.0	1.1	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.0
-82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.7	7.5	8.2
-85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
-87.5°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	5.2
85°	6.0	6.5	7.0	7.5	7.9	8.4	8.8	9.2	9.6	10.0	10.4
82.5°	9.0	9.8	10.5	11.2	11.9	12.6	13.3	14.1	14.8	15.5	16.2
80°	12.0	13.0	14.2	15.4	16.6	17.7	18.7	19.8	20.7	21.9	23.1
77.5°	15.5	17.0	18.5	20.0	21.5	23.5	25.4	27.2	28.9	30.6	32.2
75°	19.1	21.0	23.5	26.0	28.4	30.8	33.4	38.4	43.1	47.7	52.0
72.5°	23.4	26.5	29.5	32.4	38.4	44.7	50.7	56.5	64.6	74.3	83.4
70°	28.5	32.0	38.9	46.4	53.8	62.6	75.1	87.1	98.6	111.3	126.5
67.5°	34.6	43.5	52.2	62.2	77.2	91.7	105.8	125.3	144.2	162.3	183.8
65°	45.8	55.7	70.6	87.7	104.4	127.0	149.7	171.6	208.9	247.3	283.9
62.5°	56.8	74.9	94.1	115.9	142.5	168.3	210.1	256.0	300.3	356.2	411.3
60°	74.9	96.2	122.1	151.8	186.2	239.9	291.9	355.5	421.4	485.1	560.5
57.5°	94.1	122.1	154.9	198.2	257.9	319.8	396.7	471.0	557.6	643.6	730.3
55°	115.9	151.8	198.2	263.9	336.4	421.6	509.8	610.0	707.1	820.7	929.5
52.5°	142.5	186.2	257.9	336.4	430.0	530.8	641.8	759.1	886.2	1013.5	1149.2
50°	168.3	239.9	319.8	421.6	530.8	652.4	785.3	925.8	1075.2	1226.9	1383.9
47.5°	210.1	291.9	396.7	509.8	641.8	785.3	939.1	1106.2	1274.0	1455.9	1633.0
45°	256.0	355.5	471.0	610.0	759.1	925.8	1106.2	1289.8	1492.2	1682.3	1845.1
42.5°	300.3	421.4	557.6	707.1	886.2	1075.2	1274.0	1492.2	1698.2	1877.4	1996.3
40°	356.2	485.1	643.6	820.7	1013.5	1226.9	1455.9	1682.3	1877.4	2003.7	2085.7
37.5°	411.3	560.5	730.3	929.5	1149.2	1383.9	1633.0	1845.1	1996.3	2085.7	2304.2
35°	463.6	632.3	825.9	1042.0	1278.8	1542.1	1780.9	1974.3	2070.7	2284.2	2689.3
32.5°	520.5	700.1	916.3	1155.7	1416.8	1686.0	1920.1	2040.9	2224.8	2558.4	3360.4
30°	578.4	776.7	1005.2	1262.7	1548.4	1808.5	1996.9	2126.9	2400.1	3160.1	5326.2
27.5°	632.3	849.2	1097.1	1372.6	1668.1	1923.3	2052.2	2281.1	2831.0	4177.3	7892.3
25°	682.1	916.3	1182.1	1477.9	1766.7	1987.2	2126.1	2425.1	3328.4	6430.1	10189.9
22.5°	732.6	977.8	1260.0	1574.5	1857.3	2031.1	2249.3	2807.0	4429.0	8514.7	12297.9
20°	782.9	1042.0	1336.0	1659.8	1939.5	2071.0	2361.4	3196.9	6206.0	10313.2	14100.5
17.5°	827.6	1099.2	1407.4	1727.1	1979.6	2133.8	2498.2	3547.1	7805.2	11935.8	15668.1
15°	866.6	1149.2	1469.8	1786.1	2008.3	2215.1	2782.4	4710.3	9167.7	13327.3	17059.8
12.5°	899.9	1191.9	1523.1	1836.5	2032.9	2284.7	3025.9	5827.5	10306.4	14433.0	18309.5
10°	927.3	1226.9	1567.0	1878.1	2053.2	2342.2	3227.2	6752.5	11250.9	15351.8	19350.2
7.5°	948.7	1254.4	1601.3	1910.6	2069.1	2387.2	3385.2	7479.1	11993.7	16075.5	20171.5
5°	964.0	1274.0	1625.9	1933.9	2080.5	2419.6	3498.8	8002.0	12528.8	16597.5	20764.7
2.5°	973.2	1285.9	1640.8	1947.9	2087.4	2439.1	3567.2	8317.2	12851.7	16912.8	21123.4
0°	976.3	1289.8	1645.7	1952.6	2089.7	2445.6	3590.1	8422.6	12959.6	17018.2	21243.4
-2.5°	973.2	1285.9	1640.8	1947.9	2087.4	2439.1	3567.2	8317.2	12851.7	16912.8	21123.4
-5°	964.0	1274.0	1625.9	1933.9	2080.5	2419.6	3498.8	8002.0	12528.8	16597.5	20764.7
-7.5°	948.7	1254.4	1601.3	1910.6	2069.1	2387.2	3385.2	7479.1	11993.7	16075.5	20171.5
-10°	927.3	1226.9	1567.0	1878.1	2053.2	2342.2	3227.2	6752.5	11250.9	15351.8	19350.2
-12.5°	899.9	1191.9	1523.1	1836.5	2032.9	2284.7	3025.9	5827.5	10306.4	14433.0	18309.5
-15°	866.6	1149.2	1469.8	1786.1	2008.3	2215.1	2782.4	4710.3	9167.7	13327.3	17059.8
-17.5°	827.6	1099.2	1407.4	1727.1	1979.6	2133.8	2498.2	3547.1	7805.2	11935.8	15668.1
-20°	782.9	1042.0	1336.0	1659.8	1939.5	2071.0	2361.4	3196.9	6206.0	10313.2	14100.5



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	732.6	977.8	1260.0	1574.5	1857.3	2031.1	2249.3	2807.0	4429.0	8514.7	12297.9
-25°	682.1	916.3	1182.1	1477.9	1766.7	1987.2	2126.1	2425.1	3328.4	6430.1	10189.9
-27.5°	632.3	849.2	1097.1	1372.6	1668.1	1923.3	2052.2	2281.1	2831.0	4177.3	7892.3
-30°	578.4	776.7	1005.2	1262.7	1548.4	1808.5	1996.9	2126.9	2400.1	3160.1	5326.2
-32.5°	520.5	700.1	916.3	1155.7	1416.8	1686.0	1920.1	2040.9	2224.8	2558.4	3360.4
-35°	463.6	632.3	825.9	1042.0	1278.8	1542.1	1780.9	1974.3	2070.7	2284.2	2689.3
-37.5°	411.3	560.5	730.3	929.5	1149.2	1383.9	1633.0	1845.1	1996.3	2085.7	2304.2
-40°	356.2	485.1	643.6	820.7	1013.5	1226.9	1455.9	1682.3	1877.4	2003.7	2085.7
-42.5°	300.3	421.4	557.6	707.1	886.2	1075.2	1274.0	1492.2	1698.2	1877.4	1996.3
-45°	256.0	355.5	471.0	610.0	759.1	925.8	1106.2	1289.8	1492.2	1682.3	1845.1
-47.5°	210.1	291.9	396.7	509.8	641.8	785.3	939.1	1106.2	1274.0	1455.9	1633.0
-50°	168.3	239.9	319.8	421.6	530.8	652.4	785.3	925.8	1075.2	1226.9	1383.9
-52.5°	142.5	186.2	257.9	336.4	430.0	530.8	641.8	759.1	886.2	1013.5	1149.2
-55°	115.9	151.8	198.2	263.9	336.4	421.6	509.8	610.0	707.1	820.7	929.5
-57.5°	94.1	122.1	154.9	198.2	257.9	319.8	396.7	471.0	557.6	643.6	730.3
-60°	74.9	96.2	122.1	151.8	186.2	239.9	291.9	355.5	421.4	485.1	560.5
-62.5°	56.8	74.9	94.1	115.9	142.5	168.3	210.1	256.0	300.3	356.2	411.3
-65°	45.8	55.7	70.6	87.7	104.4	127.0	149.7	171.6	208.9	247.3	283.9
-67.5°	34.6	43.5	52.2	62.2	77.2	91.7	105.8	125.3	144.2	162.3	183.8
-70°	28.5	32.0	38.9	46.4	53.8	62.6	75.1	87.1	98.6	111.3	126.5
-72.5°	23.4	26.5	29.5	32.4	38.4	44.7	50.7	56.5	64.6	74.3	83.4
-75°	19.1	21.0	23.5	26.0	28.4	30.8	33.4	38.4	43.1	47.7	52.0
-77.5°	15.5	17.0	18.5	20.0	21.5	23.5	25.4	27.2	28.9	30.6	32.2
-80°	12.0	13.0	14.2	15.4	16.6	17.7	18.7	19.8	20.7	21.9	23.1
-82.5°	9.0	9.8	10.5	11.2	11.9	12.6	13.3	14.1	14.8	15.5	16.2
-85°	6.0	6.5	7.0	7.5	7.9	8.4	8.8	9.2	9.6	10.0	10.4
-87.5°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	5.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
85°	10.7	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.6	12.8	12.9
82.5°	16.8	17.4	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.6	20.8
80°	24.3	25.4	26.5	27.5	28.4	29.2	29.9	30.6	31.1	31.6	32.0
77.5°	34.9	38.1	41.1	43.9	46.4	48.7	50.8	52.7	54.3	55.7	56.8
75°	56.1	60.9	67.4	73.4	79.0	84.0	88.6	92.7	96.2	99.2	101.7
72.5°	92.1	100.3	108.7	119.0	128.5	137.1	144.9	151.8	157.8	163.0	167.2
70°	141.0	154.5	167.3	183.1	203.8	222.8	239.9	255.0	268.3	279.5	288.8
67.5°	214.9	244.1	271.6	297.1	326.2	355.5	381.9	405.3	425.8	443.2	457.6
65°	323.4	368.0	409.8	448.8	485.1	526.1	563.1	596.0	624.7	649.2	669.3
62.5°	463.6	520.5	578.4	632.3	682.1	732.6	782.9	827.6	866.6	899.9	927.3
60°	632.3	700.1	776.7	849.2	916.3	977.8	1042.0	1099.2	1149.2	1191.9	1226.9
57.5°	825.9	916.3	1005.2	1097.1	1182.1	1260.0	1336.0	1407.4	1469.8	1523.1	1567.0
55°	1042.0	1155.7	1262.7	1372.6	1477.9	1574.5	1659.8	1727.1	1786.1	1836.5	1878.1
52.5°	1278.8	1416.8	1548.4	1668.1	1766.7	1857.3	1939.5	1979.6	2008.3	2032.9	2053.2
50°	1542.1	1686.0	1808.5	1923.3	1987.2	2031.1	2071.0	2133.8	2215.1	2284.7	2342.2
47.5°	1780.9	1920.1	1996.9	2052.2	2126.1	2249.3	2361.4	2498.2	2782.4	3025.9	3227.2
45°	1974.3	2040.9	2126.9	2281.1	2425.1	2807.0	3196.9	3547.1	4710.3	5827.5	6752.5
42.5°	2070.7	2224.8	2400.1	2831.0	3328.4	4429.0	6206.0	7805.2	9167.7	10306.4	11250.9
40°	2284.2	2558.4	3160.1	4177.3	6430.1	8514.7	10313.2	11935.8	13327.3	14433.0	15351.8
37.5°	2689.3	3360.4	5326.2	7892.3	10189.9	12297.9	14100.5	15668.1	17059.8	18309.5	19350.2
35°	3427.6	5907.2	8761.3	11329.6	13668.4	15691.4	17578.5	19340.7	20908.0	22403.0	23688.9
32.5°	5907.2	9042.4	11906.7	14462.6	16776.6	19023.8	21112.3	23253.1	25179.9	27132.9	29013.0
30°	8761.3	11906.7	14729.8	17339.6	19908.4	22470.4	25017.9	27795.0	30595.5	33350.2	36507.5
27.5°	11329.6	14462.6	17339.6	20206.3	23169.6	26123.8	29793.1	33545.2	38215.4	42311.9	45838.8
25°	13668.4	16776.6	19908.4	23169.6	26613.8	30811.5	35981.0	41579.4	46737.5	51302.0	55158.2
22.5°	15691.4	19023.8	22470.4	26123.8	30811.5	36804.5	43319.2	49482.5	55087.4	60048.9	64551.1
20°	17578.5	21112.3	25017.9	29793.1	35981.0	43319.2	50413.5	57030.0	63204.7	69375.6	74914.0
17.5°	19340.7	23253.1	27795.0	33545.2	41579.4	49482.5	57030.0	64384.2	71876.8	79666.1	86782.7
15°	20908.0	25179.9	30595.5	38215.4	46737.5	55087.4	63204.7	71876.8	81296.1	90796.9	100113.6
12.5°	22403.0	27132.9	33350.2	42311.9	51302.0	60048.9	69375.6	79666.1	90796.9	102376.4	110381.8
10°	23688.9	29013.0	36507.5	45838.8	55158.2	64551.1	74914.0	86782.7	100113.6	110381.8	118081.5
7.5°	24706.0	30504.2	39020.4	48657.9	58249.5	68441.0	80129.4	93587.8	106704.1	116530.0	122753.8
5°	25442.0	31585.6	40847.7	50715.1	60515.4	71308.7	84004.1	98751.0	111164.4	120106.5	125588.4
2.5°	25887.5	32241.3	41957.8	51967.8	61899.6	73068.1	86395.0	101963.2	113972.7	122087.8	127111.0
0°	26036.7	32461.0	42330.1	52388.5	62365.3	73661.3	87203.7	103054.6	114933.4	122696.5	127631.8
-2.5°	25887.5	32241.3	41957.8	51967.8	61899.6	73068.1	86395.0	101963.2	113972.7	122087.8	127111.0
-5°	25442.0	31585.6	40847.7	50715.1	60515.4	71308.7	84004.1	98751.0	111164.4	120106.5	125588.4
-7.5°	24706.0	30504.2	39020.4	48657.9	58249.5	68441.0	80129.4	93587.8	106704.1	116530.0	122753.8
-10°	23688.9	29013.0	36507.5	45838.8	55158.2	64551.1	74914.0	86782.7	100113.6	110381.8	118081.5
-12.5°	22403.0	27132.9	33350.2	42311.9	51302.0	60048.9	69375.6	79666.1	90796.9	102376.4	110381.8
-15°	20908.0	25179.9	30595.5	38215.4	46737.5	55087.4	63204.7	71876.8	81296.1	90796.9	100113.6
-17.5°	19340.7	23253.1	27795.0	33545.2	41579.4	49482.5	57030.0	64384.2	71876.8	79666.1	86782.7
-20°	17578.5	21112.3	25017.9	29793.1	35981.0	43319.2	50413.5	57030.0	63204.7	69375.6	74914.0



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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°	15691.4	19023.8	22470.4	26123.8	30811.5	36804.5	43319.2	49482.5	55087.4	60048.9	64551.1
-25°	13668.4	16776.6	19908.4	23169.6	26613.8	30811.5	35981.0	41579.4	46737.5	51302.0	55158.2
-27.5°	11329.6	14462.6	17339.6	20206.3	23169.6	26123.8	29793.1	33545.2	38215.4	42311.9	45838.8
-30°	8761.3	11906.7	14729.8	17339.6	19908.4	22470.4	25017.9	27795.0	30595.5	33350.2	36507.5
-32.5°	5907.2	9042.4	11906.7	14462.6	16776.6	19023.8	21112.3	23253.1	25179.9	27132.9	29013.0
-35°	3427.6	5907.2	8761.3	11329.6	13668.4	15691.4	17578.5	19340.7	20908.0	22403.0	23688.9
-37.5°	2689.3	3360.4	5326.2	7892.3	10189.9	12297.9	14100.5	15668.1	17059.8	18309.5	19350.2
-40°	2284.2	2558.4	3160.1	4177.3	6430.1	8514.7	10313.2	11935.8	13327.3	14433.0	15351.8
-42.5°	2070.7	2224.8	2400.1	2831.0	3328.4	4429.0	6206.0	7805.2	9167.7	10306.4	11250.9
-45°	1974.3	2040.9	2126.9	2281.1	2425.1	2807.0	3196.9	3547.1	4710.3	5827.5	6752.5
-47.5°	1780.9	1920.1	1996.9	2052.2	2126.1	2249.3	2361.4	2498.2	2782.4	3025.9	3227.2
-50°	1542.1	1686.0	1808.5	1923.3	1987.2	2031.1	2071.0	2133.8	2215.1	2284.7	2342.2
-52.5°	1278.8	1416.8	1548.4	1668.1	1766.7	1857.3	1939.5	1979.6	2008.3	2032.9	2053.2
-55°	1042.0	1155.7	1262.7	1372.6	1477.9	1574.5	1659.8	1727.1	1786.1	1836.5	1878.1
-57.5°	825.9	916.3	1005.2	1097.1	1182.1	1260.0	1336.0	1407.4	1469.8	1523.1	1567.0
-60°	632.3	700.1	776.7	849.2	916.3	977.8	1042.0	1099.2	1149.2	1191.9	1226.9
-62.5°	463.6	520.5	578.4	632.3	682.1	732.6	782.9	827.6	866.6	899.9	927.3
-65°	323.4	368.0	409.8	448.8	485.1	526.1	563.1	596.0	624.7	649.2	669.3
-67.5°	214.9	244.1	271.6	297.1	326.2	355.5	381.9	405.3	425.8	443.2	457.6
-70°	141.0	154.5	167.3	183.1	203.8	222.8	239.9	255.0	268.3	279.5	288.8
-72.5°	92.1	100.3	108.7	119.0	128.5	137.1	144.9	151.8	157.8	163.0	167.2
-75°	56.1	60.9	67.4	73.4	79.0	84.0	88.6	92.7	96.2	99.2	101.7
-77.5°	34.9	38.1	41.1	43.9	46.4	48.7	50.8	52.7	54.3	55.7	56.8
-80°	24.3	25.4	26.5	27.5	28.4	29.2	29.9	30.6	31.1	31.6	32.0
-82.5°	16.8	17.4	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.6	20.8
-85°	10.7	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.6	12.8	12.9
-87.5°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
85°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	12.9	12.8	12.6	12.5
82.5°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.8	20.6	20.4	20.1
80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.1	30.6
77.5°	57.7	58.3	58.7	58.8	58.7	58.3	57.7	56.8	55.7	54.3	52.7
75°	103.6	105.0	105.8	106.1	105.8	105.0	103.6	101.7	99.2	96.2	92.7
72.5°	170.5	172.8	174.2	174.7	174.2	172.8	170.5	167.2	163.0	157.8	151.8
70°	296.0	301.2	304.3	305.3	304.3	301.2	296.0	288.8	279.5	268.3	255.0
67.5°	468.8	476.8	481.6	483.2	481.6	476.8	468.8	457.6	443.2	425.8	405.3
65°	685.0	696.3	703.0	705.3	703.0	696.3	685.0	669.3	649.2	624.7	596.0
62.5°	948.7	964.0	973.2	976.3	973.2	964.0	948.7	927.3	899.9	866.6	827.6
60°	1254.4	1274.0	1285.9	1289.8	1285.9	1274.0	1254.4	1226.9	1191.9	1149.2	1099.2
57.5°	1601.3	1625.9	1640.8	1645.7	1640.8	1625.9	1601.3	1567.0	1523.1	1469.8	1407.4
55°	1910.6	1933.9	1947.9	1952.6	1947.9	1933.9	1910.6	1878.1	1836.5	1786.1	1727.1
52.5°	2069.1	2080.5	2087.4	2089.7	2087.4	2080.5	2069.1	2053.2	2032.9	2008.3	1979.6
50°	2387.2	2419.6	2439.1	2445.6	2439.1	2419.6	2387.2	2342.2	2284.7	2215.1	2133.8
47.5°	3385.2	3498.8	3567.2	3590.1	3567.2	3498.8	3385.2	3227.2	3025.9	2782.4	2498.2
45°	7479.1	8002.0	8317.2	8422.6	8317.2	8002.0	7479.1	6752.5	5827.5	4710.3	3547.1
42.5°	11993.7	12528.8	12851.7	12959.6	12851.7	12528.8	11993.7	11250.9	10306.4	9167.7	7805.2
40°	16075.5	16597.5	16912.8	17018.2	16912.8	16597.5	16075.5	15351.8	14433.0	13327.3	11935.8
37.5°	20171.5	20764.7	21123.4	21243.4	21123.4	20764.7	20171.5	19350.2	18309.5	17059.8	15668.1
35°	24706.0	25442.0	25887.5	26036.7	25887.5	25442.0	24706.0	23688.9	22403.0	20908.0	19340.7
32.5°	30504.2	31585.6	32241.3	32461.0	32241.3	31585.6	30504.2	29013.0	27132.9	25179.9	23253.1
30°	39020.4	40847.7	41957.8	42330.1	41957.8	40847.7	39020.4	36507.5	33350.2	30595.5	27795.0
27.5°	48657.9	50715.1	51967.8	52388.5	51967.8	50715.1	48657.9	45838.8	42311.9	38215.4	33545.2
25°	58249.5	60515.4	61899.6	62365.3	61899.6	60515.4	58249.5	55158.2	51302.0	46737.5	41579.4
22.5°	68441.0	71308.7	73068.1	73661.3	73068.1	71308.7	68441.0	64551.1	60048.9	55087.4	49482.5
20°	80129.4	84004.1	86395.0	87203.7	86395.0	84004.1	80129.4	74914.0	69375.6	63204.7	57030.0
17.5°	93587.8	98751.0	101963.2	103054.6	101963.2	98751.0	93587.8	86782.7	79666.1	71876.8	64384.2
15°	106704.1	111164.4	113972.7	114933.4	113972.7	111164.4	106704.1	100113.6	90796.9	81296.1	71876.8
12.5°	116530.0	120106.5	122087.8	122696.5	122087.8	120106.5	116530.0	110381.8	102376.4	90796.9	79666.1
10°	122753.8	125588.4	127111.0	127631.8	127111.0	125588.4	122753.8	118081.5	110381.8	100113.6	86782.7
7.5°	126620.8	129259.6	130844.6	131403.1	130844.6	129259.6	126620.8	122753.8	116530.0	106704.1	93587.8
5°	129259.6	132003.1	133705.2	134224.2	133705.2	132003.1	129259.6	125588.4	120106.5	111164.4	98751.0
2.5°	130844.6	133705.2	134523.1	134495.2	134523.1	133705.2	130844.6	127111.0	122087.8	113972.7	101963.2
0°	131403.1	134224.2	134495.2	133976.1	134495.2	134224.2	131403.1	127631.8	122696.5	114933.4	103054.6
-2.5°	130844.6	133705.2	134523.1	134495.2	134523.1	133705.2	130844.6	127111.0	122087.8	113972.7	101963.2
-5°	129259.6	132003.1	133705.2	134224.2	133705.2	132003.1	129259.6	125588.4	120106.5	111164.4	98751.0
-7.5°	126620.8	129259.6	130844.6	131403.1	130844.6	129259.6	126620.8	122753.8	116530.0	106704.1	93587.8
-10°	122753.8	125588.4	127111.0	127631.8	127111.0	125588.4	122753.8	118081.5	110381.8	100113.6	86782.7
-12.5°	116530.0	120106.5	122087.8	122696.5	122087.8	120106.5	116530.0	110381.8	102376.4	90796.9	79666.1
-15°	106704.1	111164.4	113972.7	114933.4	113972.7	111164.4	106704.1	100113.6	90796.9	81296.1	71876.8
-17.5°	93587.8	98751.0	101963.2	103054.6	101963.2	98751.0	93587.8	86782.7	79666.1	71876.8	64384.2
-20°	80129.4	84004.1	86395.0	87203.7	86395.0	84004.1	80129.4	74914.0	69375.6	63204.7	57030.0



REPORT NUMBER: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	68441.0	71308.7	73068.1	73661.3	73068.1	71308.7	68441.0	64551.1	60048.9	55087.4	49482.5
-25°	58249.5	60515.4	61899.6	62365.3	61899.6	60515.4	58249.5	55158.2	51302.0	46737.5	41579.4
-27.5°	48657.9	50715.1	51967.8	52388.5	51967.8	50715.1	48657.9	45838.8	42311.9	38215.4	33545.2
-30°	39020.4	40847.7	41957.8	42330.1	41957.8	40847.7	39020.4	36507.5	33350.2	30595.5	27795.0
-32.5°	30504.2	31585.6	32241.3	32461.0	32241.3	31585.6	30504.2	29013.0	27132.9	25179.9	23253.1
-35°	24706.0	25442.0	25887.5	26036.7	25887.5	25442.0	24706.0	23688.9	22403.0	20908.0	19340.7
-37.5°	20171.5	20764.7	21123.4	21243.4	21123.4	20764.7	20171.5	19350.2	18309.5	17059.8	15668.1
-40°	16075.5	16597.5	16912.8	17018.2	16912.8	16597.5	16075.5	15351.8	14433.0	13327.3	11935.8
-42.5°	11993.7	12528.8	12851.7	12959.6	12851.7	12528.8	11993.7	11250.9	10306.4	9167.7	7805.2
-45°	7479.1	8002.0	8317.2	8422.6	8317.2	8002.0	7479.1	6752.5	5827.5	4710.3	3547.1
-47.5°	3385.2	3498.8	3567.2	3590.1	3567.2	3498.8	3385.2	3227.2	3025.9	2782.4	2498.2
-50°	2387.2	2419.6	2439.1	2445.6	2439.1	2419.6	2387.2	2342.2	2284.7	2215.1	2133.8
-52.5°	2069.1	2080.5	2087.4	2089.7	2087.4	2080.5	2069.1	2053.2	2032.9	2008.3	1979.6
-55°	1910.6	1933.9	1947.9	1952.6	1947.9	1933.9	1910.6	1878.1	1836.5	1786.1	1727.1
-57.5°	1601.3	1625.9	1640.8	1645.7	1640.8	1625.9	1601.3	1567.0	1523.1	1469.8	1407.4
-60°	1254.4	1274.0	1285.9	1289.8	1285.9	1274.0	1254.4	1226.9	1191.9	1149.2	1099.2
-62.5°	948.7	964.0	973.2	976.3	973.2	964.0	948.7	927.3	899.9	866.6	827.6
-65°	685.0	696.3	703.0	705.3	703.0	696.3	685.0	669.3	649.2	624.7	596.0
-67.5°	468.8	476.8	481.6	483.2	481.6	476.8	468.8	457.6	443.2	425.8	405.3
-70°	296.0	301.2	304.3	305.3	304.3	301.2	296.0	288.8	279.5	268.3	255.0
-72.5°	170.5	172.8	174.2	174.7	174.2	172.8	170.5	167.2	163.0	157.8	151.8
-75°	103.6	105.0	105.8	106.1	105.8	105.0	103.6	101.7	99.2	96.2	92.7
-77.5°	57.7	58.3	58.7	58.8	58.7	58.3	57.7	56.8	55.7	54.3	52.7
-80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.1	30.6
-82.5°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.8	20.6	20.4	20.1
-85°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	12.9	12.8	12.6	12.5
-87.5°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
85°	12.3	12.1	11.9	11.6	11.3	11.0	10.7	10.4	10.0	9.6	9.2
82.5°	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.2	15.5	14.8	14.1
80°	29.9	29.2	28.4	27.5	26.5	25.4	24.3	23.1	21.9	20.7	19.8
77.5°	50.8	48.7	46.4	43.9	41.1	38.1	34.9	32.2	30.6	28.9	27.2
75°	88.6	84.0	79.0	73.4	67.4	60.9	56.1	52.0	47.7	43.1	38.4
72.5°	144.9	137.1	128.5	119.0	108.7	100.3	92.1	83.4	74.3	64.6	56.5
70°	239.9	222.8	203.8	183.1	167.3	154.5	141.0	126.5	111.3	98.6	87.1
67.5°	381.9	355.5	326.2	297.1	271.6	244.1	214.9	183.8	162.3	144.2	125.3
65°	563.1	526.1	485.1	448.8	409.8	368.0	323.4	283.9	247.3	208.9	171.6
62.5°	782.9	732.6	682.1	632.3	578.4	520.5	463.6	411.3	356.2	300.3	256.0
60°	1042.0	977.8	916.3	849.2	776.7	700.1	632.3	560.5	485.1	421.4	355.5
57.5°	1336.0	1260.0	1182.1	1097.1	1005.2	916.3	825.9	730.3	643.6	557.6	471.0
55°	1659.8	1574.5	1477.9	1372.6	1262.7	1155.7	1042.0	929.5	820.7	707.1	610.0
52.5°	1939.5	1857.3	1766.7	1668.1	1548.4	1416.8	1278.8	1149.2	1013.5	886.2	759.1
50°	2071.0	2031.1	1987.2	1923.3	1808.5	1686.0	1542.1	1383.9	1226.9	1075.2	925.8
47.5°	2361.4	2249.3	2126.1	2052.2	1996.9	1920.1	1780.9	1633.0	1455.9	1274.0	1106.2
45°	3196.9	2807.0	2425.1	2281.1	2126.9	2040.9	1974.3	1845.1	1682.3	1492.2	1289.8
42.5°	6206.0	4429.0	3328.4	2831.0	2400.1	2224.8	2070.7	1996.3	1877.4	1698.2	1492.2
40°	10313.2	8514.7	6430.1	4177.3	3160.1	2558.4	2284.2	2085.7	2003.7	1877.4	1682.3
37.5°	14100.5	12297.9	10189.9	7892.3	5326.2	3360.4	2689.3	2304.2	2085.7	1996.3	1845.1
35°	17578.5	15691.4	13668.4	11329.6	8761.3	5907.2	3427.6	2689.3	2284.2	2070.7	1974.3
32.5°	21112.3	19023.8	16776.6	14462.6	11906.7	9042.4	5907.2	3360.4	2558.4	2224.8	2040.9
30°	25017.9	22470.4	19908.4	17339.6	14729.8	11906.7	8761.3	5326.2	3160.1	2400.1	2126.9
27.5°	29793.1	26123.8	23169.6	20206.3	17339.6	14462.6	11329.6	7892.3	4177.3	2831.0	2281.1
25°	35981.0	30811.5	26613.8	23169.6	19908.4	16776.6	13668.4	10189.9	6430.1	3328.4	2425.1
22.5°	43319.2	36804.5	30811.5	26123.8	22470.4	19023.8	15691.4	12297.9	8514.7	4429.0	2807.0
20°	50413.5	43319.2	35981.0	29793.1	25017.9	21112.3	17578.5	14100.5	10313.2	6206.0	3196.9
17.5°	57030.0	49482.5	41579.4	33545.2	27795.0	23253.1	19340.7	15668.1	11935.8	7805.2	3547.1
15°	63204.7	55087.4	46737.5	38215.4	30595.5	25179.9	20908.0	17059.8	13327.3	9167.7	4710.3
12.5°	69375.6	60048.9	51302.0	42311.9	33350.2	27132.9	22403.0	18309.5	14433.0	10306.4	5827.5
10°	74914.0	64551.1	55158.2	45838.8	36507.5	29013.0	23688.9	19350.2	15351.8	11250.9	6752.5
7.5°	80129.4	68441.0	58249.5	48657.9	39020.4	30504.2	24706.0	20171.5	16075.5	11993.7	7479.1
5°	84004.1	71308.7	60515.4	50715.1	40847.7	31585.6	25442.0	20764.7	16597.5	12528.8	8002.0
2.5°	86395.0	73068.1	61899.6	51967.8	41957.8	32241.3	25887.5	21123.4	16912.8	12851.7	8317.2
0°	87203.7	73661.3	62365.3	52388.5	42330.1	32461.0	26036.7	21243.4	17018.2	12959.6	8422.6
-2.5°	86395.0	73068.1	61899.6	51967.8	41957.8	32241.3	25887.5	21123.4	16912.8	12851.7	8317.2
-5°	84004.1	71308.7	60515.4	50715.1	40847.7	31585.6	25442.0	20764.7	16597.5	12528.8	8002.0
-7.5°	80129.4	68441.0	58249.5	48657.9	39020.4	30504.2	24706.0	20171.5	16075.5	11993.7	7479.1
-10°	74914.0	64551.1	55158.2	45838.8	36507.5	29013.0	23688.9	19350.2	15351.8	11250.9	6752.5
-12.5°	69375.6	60048.9	51302.0	42311.9	33350.2	27132.9	22403.0	18309.5	14433.0	10306.4	5827.5
-15°	63204.7	55087.4	46737.5	38215.4	30595.5	25179.9	20908.0	17059.8	13327.3	9167.7	4710.3
-17.5°	57030.0	49482.5	41579.4	33545.2	27795.0	23253.1	19340.7	15668.1	11935.8	7805.2	3547.1
-20°	50413.5	43319.2	35981.0	29793.1	25017.9	21112.3	17578.5	14100.5	10313.2	6206.0	3196.9



REPORT NUMBER: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	43319.2	36804.5	30811.5	26123.8	22470.4	19023.8	15691.4	12297.9	8514.7	4429.0	2807.0
-25°	35981.0	30811.5	26613.8	23169.6	19908.4	16776.6	13668.4	10189.9	6430.1	3328.4	2425.1
-27.5°	29793.1	26123.8	23169.6	20206.3	17339.6	14462.6	11329.6	7892.3	4177.3	2831.0	2281.1
-30°	25017.9	22470.4	19908.4	17339.6	14729.8	11906.7	8761.3	5326.2	3160.1	2400.1	2126.9
-32.5°	21112.3	19023.8	16776.6	14462.6	11906.7	9042.4	5907.2	3360.4	2558.4	2224.8	2040.9
-35°	17578.5	15691.4	13668.4	11329.6	8761.3	5907.2	3427.6	2689.3	2284.2	2070.7	1974.3
-37.5°	14100.5	12297.9	10189.9	7892.3	5326.2	3360.4	2689.3	2304.2	2085.7	1996.3	1845.1
-40°	10313.2	8514.7	6430.1	4177.3	3160.1	2558.4	2284.2	2085.7	2003.7	1877.4	1682.3
-42.5°	6206.0	4429.0	3328.4	2831.0	2400.1	2224.8	2070.7	1996.3	1877.4	1698.2	1492.2
-45°	3196.9	2807.0	2425.1	2281.1	2126.9	2040.9	1974.3	1845.1	1682.3	1492.2	1289.8
-47.5°	2361.4	2249.3	2126.1	2052.2	1996.9	1920.1	1780.9	1633.0	1455.9	1274.0	1106.2
-50°	2071.0	2031.1	1987.2	1923.3	1808.5	1686.0	1542.1	1383.9	1226.9	1075.2	925.8
-52.5°	1939.5	1857.3	1766.7	1668.1	1548.4	1416.8	1278.8	1149.2	1013.5	886.2	759.1
-55°	1659.8	1574.5	1477.9	1372.6	1262.7	1155.7	1042.0	929.5	820.7	707.1	610.0
-57.5°	1336.0	1260.0	1182.1	1097.1	1005.2	916.3	825.9	730.3	643.6	557.6	471.0
-60°	1042.0	977.8	916.3	849.2	776.7	700.1	632.3	560.5	485.1	421.4	355.5
-62.5°	782.9	732.6	682.1	632.3	578.4	520.5	463.6	411.3	356.2	300.3	256.0
-65°	563.1	526.1	485.1	448.8	409.8	368.0	323.4	283.9	247.3	208.9	171.6
-67.5°	381.9	355.5	326.2	297.1	271.6	244.1	214.9	183.8	162.3	144.2	125.3
-70°	239.9	222.8	203.8	183.1	167.3	154.5	141.0	126.5	111.3	98.6	87.1
-72.5°	144.9	137.1	128.5	119.0	108.7	100.3	92.1	83.4	74.3	64.6	56.5
-75°	88.6	84.0	79.0	73.4	67.4	60.9	56.1	52.0	47.7	43.1	38.4
-77.5°	50.8	48.7	46.4	43.9	41.1	38.1	34.9	32.2	30.6	28.9	27.2
-80°	29.9	29.2	28.4	27.5	26.5	25.4	24.3	23.1	21.9	20.7	19.8
-82.5°	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.2	15.5	14.8	14.1
-85°	12.3	12.1	11.9	11.6	11.3	11.0	10.7	10.4	10.0	9.6	9.2
-87.5°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-HEG-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
85°	8.8	8.4	7.9	7.5	7.0	6.5	6.0	5.5	5.0	4.4	3.9
82.5°	13.3	12.6	11.9	11.2	10.5	9.8	9.0	8.2	7.5	6.7	5.8
80°	18.7	17.7	16.6	15.4	14.2	13.0	12.0	11.0	10.0	8.9	7.8
77.5°	25.4	23.5	21.5	20.0	18.5	17.0	15.5	13.9	12.4	11.1	9.8
75°	33.4	30.8	28.4	26.0	23.5	21.0	19.1	17.2	15.3	13.4	11.7
72.5°	50.7	44.7	38.4	32.4	29.5	26.5	23.4	20.6	18.3	16.0	13.7
70°	75.1	62.6	53.8	46.4	38.9	32.0	28.5	24.9	21.3	18.7	16.0
67.5°	105.8	91.7	77.2	62.2	52.2	43.5	34.6	29.5	25.4	21.3	18.3
65°	149.7	127.0	104.4	87.7	70.6	55.7	45.8	35.7	29.5	24.9	20.6
62.5°	210.1	168.3	142.5	115.9	94.1	74.9	56.8	45.8	34.6	28.5	23.4
60°	291.9	239.9	186.2	151.8	122.1	96.2	74.9	55.7	43.5	32.0	26.5
57.5°	396.7	319.8	257.9	198.2	154.9	122.1	94.1	70.6	52.2	38.9	29.5
55°	509.8	421.6	336.4	263.9	198.2	151.8	115.9	87.7	62.2	46.4	32.4
52.5°	641.8	530.8	430.0	336.4	257.9	186.2	142.5	104.4	77.2	53.8	38.4
50°	785.3	652.4	530.8	421.6	319.8	239.9	168.3	127.0	91.7	62.6	44.7
47.5°	939.1	785.3	641.8	509.8	396.7	291.9	210.1	149.7	105.8	75.1	50.7
45°	1106.2	925.8	759.1	610.0	471.0	355.5	256.0	171.6	125.3	87.1	56.5
42.5°	1274.0	1075.2	886.2	707.1	557.6	421.4	300.3	208.9	144.2	98.6	64.6
40°	1455.9	1226.9	1013.5	820.7	643.6	485.1	356.2	247.3	162.3	111.3	74.3
37.5°	1633.0	1383.9	1149.2	929.5	730.3	560.5	411.3	283.9	183.8	126.5	83.4
35°	1780.9	1542.1	1278.8	1042.0	825.9	632.3	463.6	323.4	214.9	141.0	92.1
32.5°	1920.1	1686.0	1416.8	1155.7	916.3	700.1	520.5	368.0	244.1	154.5	100.3
30°	1996.9	1808.5	1548.4	1262.7	1005.2	776.7	578.4	409.8	271.6	167.3	108.7
27.5°	2052.2	1923.3	1668.1	1372.6	1097.1	849.2	632.3	448.8	297.1	183.1	119.0
25°	2126.1	1987.2	1766.7	1477.9	1182.1	916.3	682.1	485.1	326.2	203.8	128.5
22.5°	2249.3	2031.1	1857.3	1574.5	1260.0	977.8	732.6	526.1	355.5	222.8	137.1
20°	2361.4	2071.0	1939.5	1659.8	1336.0	1042.0	782.9	563.1	381.9	239.9	144.9
17.5°	2498.2	2133.8	1979.6	1727.1	1407.4	1099.2	827.6	596.0	405.3	255.0	151.8
15°	2782.4	2215.1	2008.3	1786.1	1469.8	1149.2	866.6	624.7	425.8	268.3	157.8
12.5°	3025.9	2284.7	2032.9	1836.5	1523.1	1191.9	899.9	649.2	443.2	279.5	163.0
10°	3227.2	2342.2	2053.2	1878.1	1567.0	1226.9	927.3	669.3	457.6	288.8	167.2
7.5°	3385.2	2387.2	2069.1	1910.6	1601.3	1254.4	948.7	685.0	468.8	296.0	170.5
5°	3498.8	2419.6	2080.5	1933.9	1625.9	1274.0	964.0	696.3	476.8	301.2	172.8
2.5°	3567.2	2439.1	2087.4	1947.9	1640.8	1285.9	973.2	703.0	481.6	304.3	174.2
0°	3590.1	2445.6	2089.7	1952.6	1645.7	1289.8	976.3	705.3	483.2	305.3	174.7
-2.5°	3567.2	2439.1	2087.4	1947.9	1640.8	1285.9	973.2	703.0	481.6	304.3	174.2
-5°	3498.8	2419.6	2080.5	1933.9	1625.9	1274.0	964.0	696.3	476.8	301.2	172.8
-7.5°	3385.2	2387.2	2069.1	1910.6	1601.3	1254.4	948.7	685.0	468.8	296.0	170.5
-10°	3227.2	2342.2	2053.2	1878.1	1567.0	1226.9	927.3	669.3	457.6	288.8	167.2
-12.5°	3025.9	2284.7	2032.9	1836.5	1523.1	1191.9	899.9	649.2	443.2	279.5	163.0
-15°	2782.4	2215.1	2008.3	1786.1	1469.8	1149.2	866.6	624.7	425.8	268.3	157.8
-17.5°	2498.2	2133.8	1979.6	1727.1	1407.4	1099.2	827.6	596.0	405.3	255.0	151.8
-20°	2361.4	2071.0	1939.5	1659.8	1336.0	1042.0	782.9	563.1	381.9	239.9	144.9



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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°	2249.3	2031.1	1857.3	1574.5	1260.0	977.8	732.6	526.1	355.5	222.8	137.1
-25°	2126.1	1987.2	1766.7	1477.9	1182.1	916.3	682.1	485.1	326.2	203.8	128.5
-27.5°	2052.2	1923.3	1668.1	1372.6	1097.1	849.2	632.3	448.8	297.1	183.1	119.0
-30°	1996.9	1808.5	1548.4	1262.7	1005.2	776.7	578.4	409.8	271.6	167.3	108.7
-32.5°	1920.1	1686.0	1416.8	1155.7	916.3	700.1	520.5	368.0	244.1	154.5	100.3
-35°	1780.9	1542.1	1278.8	1042.0	825.9	632.3	463.6	323.4	214.9	141.0	92.1
-37.5°	1633.0	1383.9	1149.2	929.5	730.3	560.5	411.3	283.9	183.8	126.5	83.4
-40°	1455.9	1226.9	1013.5	820.7	643.6	485.1	356.2	247.3	162.3	111.3	74.3
-42.5°	1274.0	1075.2	886.2	707.1	557.6	421.4	300.3	208.9	144.2	98.6	64.6
-45°	1106.2	925.8	759.1	610.0	471.0	355.5	256.0	171.6	125.3	87.1	56.5
-47.5°	939.1	785.3	641.8	509.8	396.7	291.9	210.1	149.7	105.8	75.1	50.7
-50°	785.3	652.4	530.8	421.6	319.8	239.9	168.3	127.0	91.7	62.6	44.7
-52.5°	641.8	530.8	430.0	336.4	257.9	186.2	142.5	104.4	77.2	53.8	38.4
-55°	509.8	421.6	336.4	263.9	198.2	151.8	115.9	87.7	62.2	46.4	32.4
-57.5°	396.7	319.8	257.9	198.2	154.9	122.1	94.1	70.6	52.2	38.9	29.5
-60°	291.9	239.9	186.2	151.8	122.1	96.2	74.9	55.7	43.5	32.0	26.5
-62.5°	210.1	168.3	142.5	115.9	94.1	74.9	56.8	45.8	34.6	28.5	23.4
-65°	149.7	127.0	104.4	87.7	70.6	55.7	45.8	35.7	29.5	24.9	20.6
-67.5°	105.8	91.7	77.2	62.2	52.2	43.5	34.6	29.5	25.4	21.3	18.3
-70°	75.1	62.6	53.8	46.4	38.9	32.0	28.5	24.9	21.3	18.7	16.0
-72.5°	50.7	44.7	38.4	32.4	29.5	26.5	23.4	20.6	18.3	16.0	13.7
-75°	33.4	30.8	28.4	26.0	23.5	21.0	19.1	17.2	15.3	13.4	11.7
-77.5°	25.4	23.5	21.5	20.0	18.5	17.0	15.5	13.9	12.4	11.1	9.8
-80°	18.7	17.7	16.6	15.4	14.2	13.0	12.0	11.0	10.0	8.9	7.8
-82.5°	13.3	12.6	11.9	11.2	10.5	9.8	9.0	8.2	7.5	6.7	5.8
-85°	8.8	8.4	7.9	7.5	7.0	6.5	6.0	5.5	5.0	4.4	3.9
-87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
80°	6.7	5.6	4.5	3.4	2.3	1.1	0.0
77.5°	8.4	7.0	5.6	4.2	2.8	1.4	0.0
75°	10.0	8.4	6.7	5.0	3.4	1.7	0.0
72.5°	11.7	9.8	7.8	5.8	3.9	2.0	0.0
70°	13.4	11.1	8.9	6.7	4.4	2.2	0.0
67.5°	15.3	12.4	10.0	7.5	5.0	2.5	0.0
65°	17.2	13.9	11.0	8.2	5.5	2.7	0.0
62.5°	19.1	15.5	12.0	9.0	6.0	3.0	0.0
60°	21.0	17.0	13.0	9.8	6.5	3.2	0.0
57.5°	23.5	18.5	14.2	10.5	7.0	3.5	0.0
55°	26.0	20.0	15.4	11.2	7.5	3.7	0.0
52.5°	28.4	21.5	16.6	11.9	7.9	4.0	0.0
50°	30.8	23.5	17.7	12.6	8.4	4.2	0.0
47.5°	33.4	25.4	18.7	13.3	8.8	4.4	0.0
45°	38.4	27.2	19.8	14.1	9.2	4.6	0.0
42.5°	43.1	28.9	20.7	14.8	9.6	4.8	0.0
40°	47.7	30.6	21.9	15.5	10.0	5.0	0.0
37.5°	52.0	32.2	23.1	16.2	10.4	5.2	0.0
35°	56.1	34.9	24.3	16.8	10.7	5.3	0.0
32.5°	60.9	38.1	25.4	17.4	11.0	5.5	0.0
30°	67.4	41.1	26.5	17.9	11.3	5.6	0.0
27.5°	73.4	43.9	27.5	18.4	11.6	5.8	0.0
25°	79.0	46.4	28.4	18.9	11.9	5.9	0.0
22.5°	84.0	48.7	29.2	19.3	12.1	6.0	0.0
20°	88.6	50.8	29.9	19.7	12.3	6.1	0.0
17.5°	92.7	52.7	30.6	20.1	12.5	6.2	0.0
15°	96.2	54.3	31.1	20.4	12.6	6.3	0.0
12.5°	99.2	55.7	31.6	20.6	12.8	6.3	0.0
10°	101.7	56.8	32.0	20.8	12.9	6.4	0.0
7.5°	103.6	57.7	32.3	21.0	13.0	6.4	0.0
5°	105.0	58.3	32.5	21.1	13.0	6.5	0.0
2.5°	105.8	58.7	32.7	21.2	13.1	6.5	0.0
0°	106.1	58.8	32.7	21.2	13.1	6.5	0.0
-2.5°	105.8	58.7	32.7	21.2	13.1	6.5	0.0
-5°	105.0	58.3	32.5	21.1	13.0	6.5	0.0
-7.5°	103.6	57.7	32.3	21.0	13.0	6.4	0.0
-10°	101.7	56.8	32.0	20.8	12.9	6.4	0.0
-12.5°	99.2	55.7	31.6	20.6	12.8	6.3	0.0
-15°	96.2	54.3	31.1	20.4	12.6	6.3	0.0
-17.5°	92.7	52.7	30.6	20.1	12.5	6.2	0.0
-20°	88.6	50.8	29.9	19.7	12.3	6.1	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	84.0	48.7	29.2	19.3	12.1	6.0	0.0
-25°	79.0	46.4	28.4	18.9	11.9	5.9	0.0
-27.5°	73.4	43.9	27.5	18.4	11.6	5.8	0.0
-30°	67.4	41.1	26.5	17.9	11.3	5.6	0.0
-32.5°	60.9	38.1	25.4	17.4	11.0	5.5	0.0
-35°	56.1	34.9	24.3	16.8	10.7	5.3	0.0
-37.5°	52.0	32.2	23.1	16.2	10.4	5.2	0.0
-40°	47.7	30.6	21.9	15.5	10.0	5.0	0.0
-42.5°	43.1	28.9	20.7	14.8	9.6	4.8	0.0
-45°	38.4	27.2	19.8	14.1	9.2	4.6	0.0
-47.5°	33.4	25.4	18.7	13.3	8.8	4.4	0.0
-50°	30.8	23.5	17.7	12.6	8.4	4.2	0.0
-52.5°	28.4	21.5	16.6	11.9	7.9	4.0	0.0
-55°	26.0	20.0	15.4	11.2	7.5	3.7	0.0
-57.5°	23.5	18.5	14.2	10.5	7.0	3.5	0.0
-60°	21.0	17.0	13.0	9.8	6.5	3.2	0.0
-62.5°	19.1	15.5	12.0	9.0	6.0	3.0	0.0
-65°	17.2	13.9	11.0	8.2	5.5	2.7	0.0
-67.5°	15.3	12.4	10.0	7.5	5.0	2.5	0.0
-70°	13.4	11.1	8.9	6.7	4.4	2.2	0.0
-72.5°	11.7	9.8	7.8	5.8	3.9	2.0	0.0
-75°	10.0	8.4	6.7	5.0	3.4	1.7	0.0
-77.5°	8.4	7.0	5.6	4.2	2.8	1.4	0.0
-80°	6.7	5.6	4.5	3.4	2.3	1.1	0.0
-82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

