

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: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-7F-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-7F-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

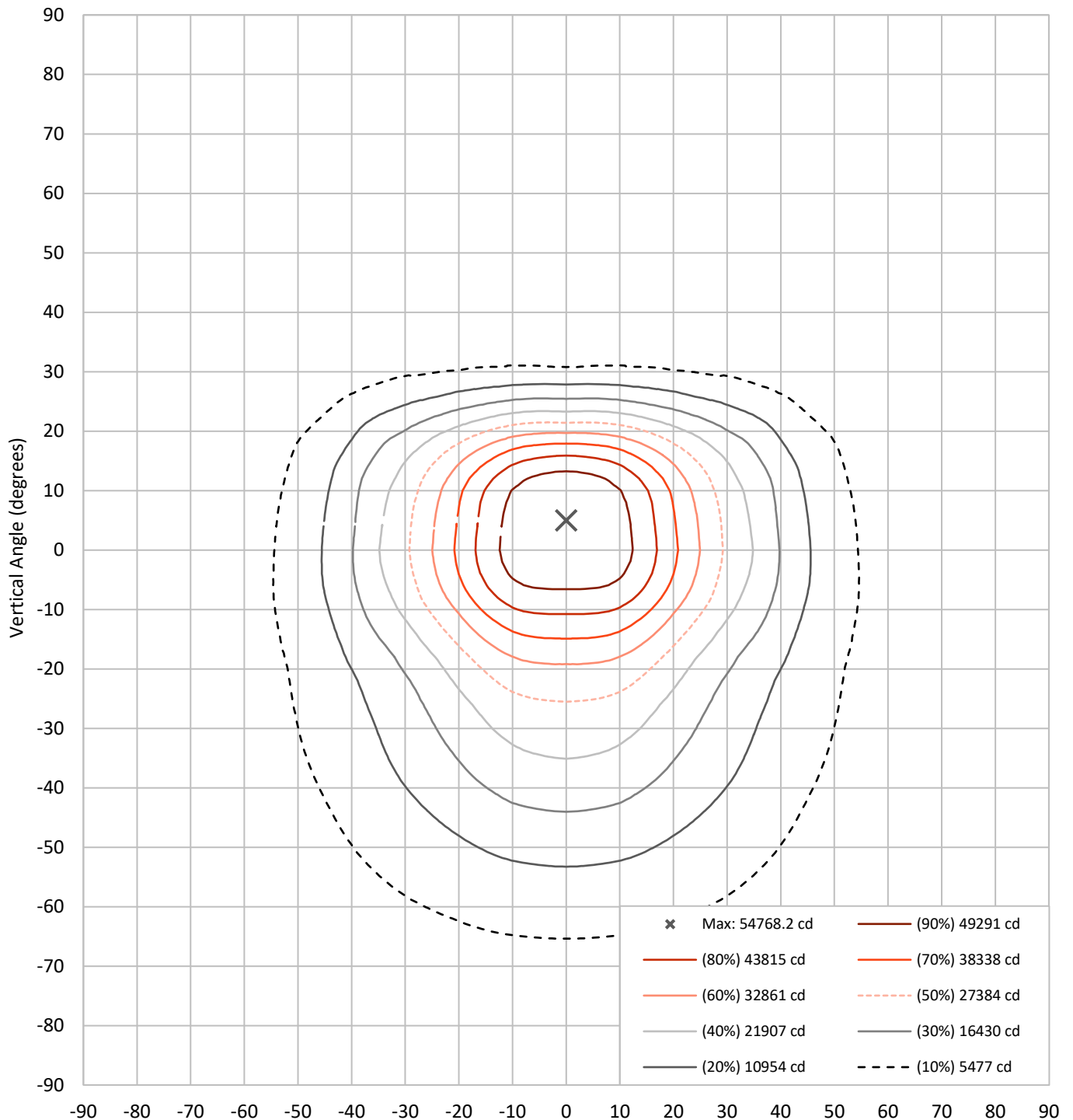
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	53663.6 lumens	Max Intensity:	54768.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	81.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	25811.1 lumens	Field Lumens:	49747.8 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

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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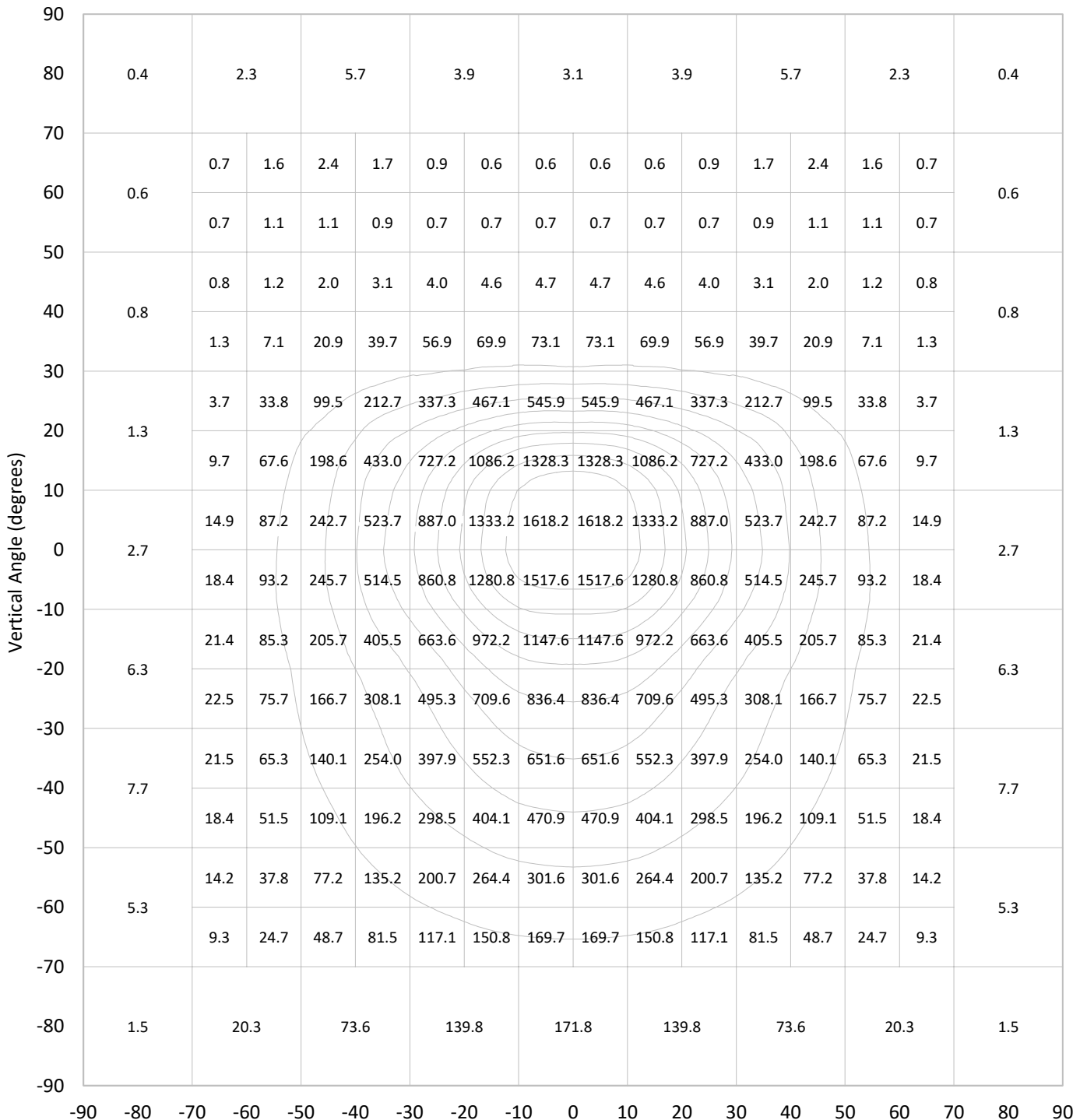
### Iso-Candela Plot





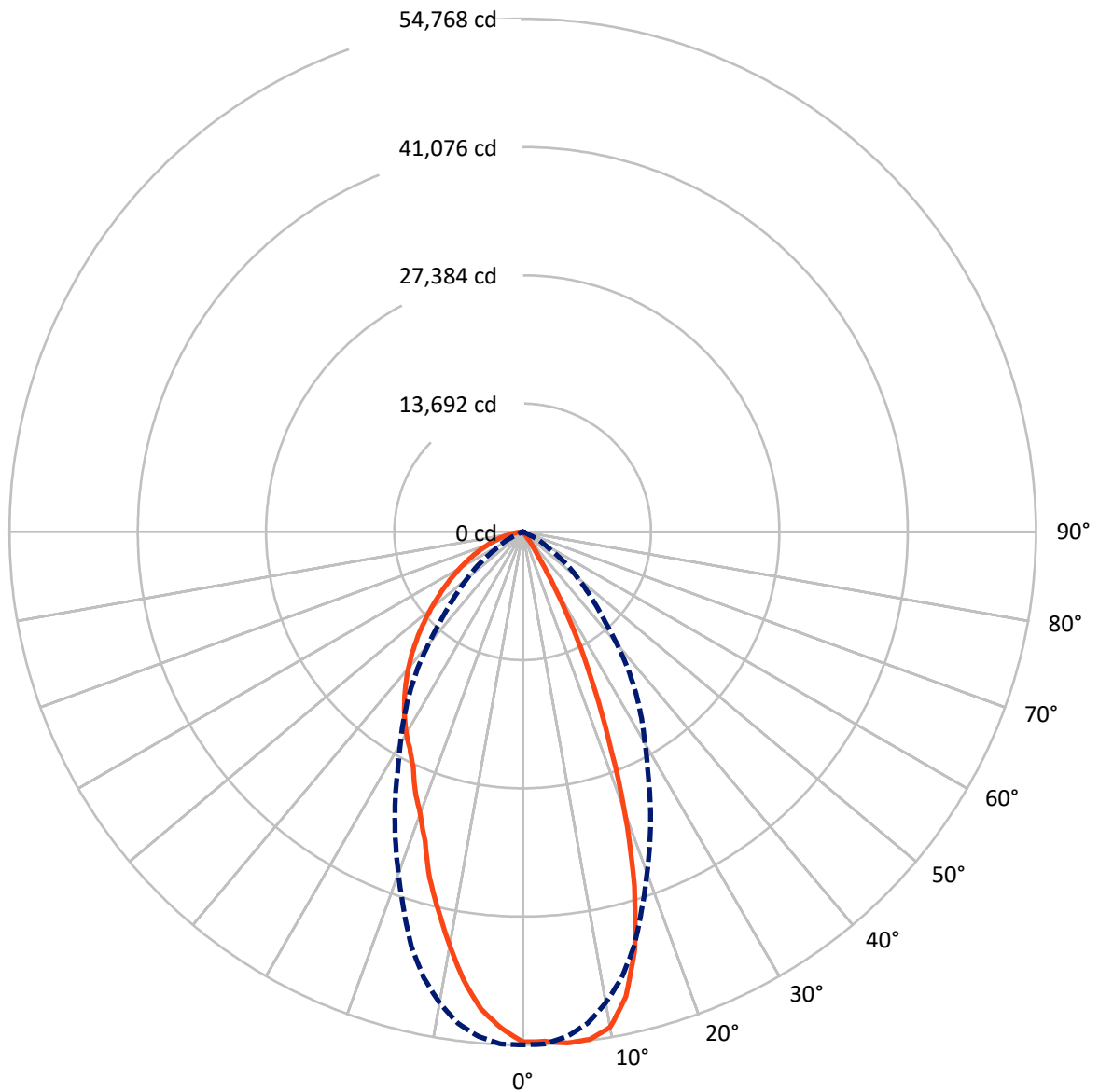
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### Lumen Table



REPORT NUMBER: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)  
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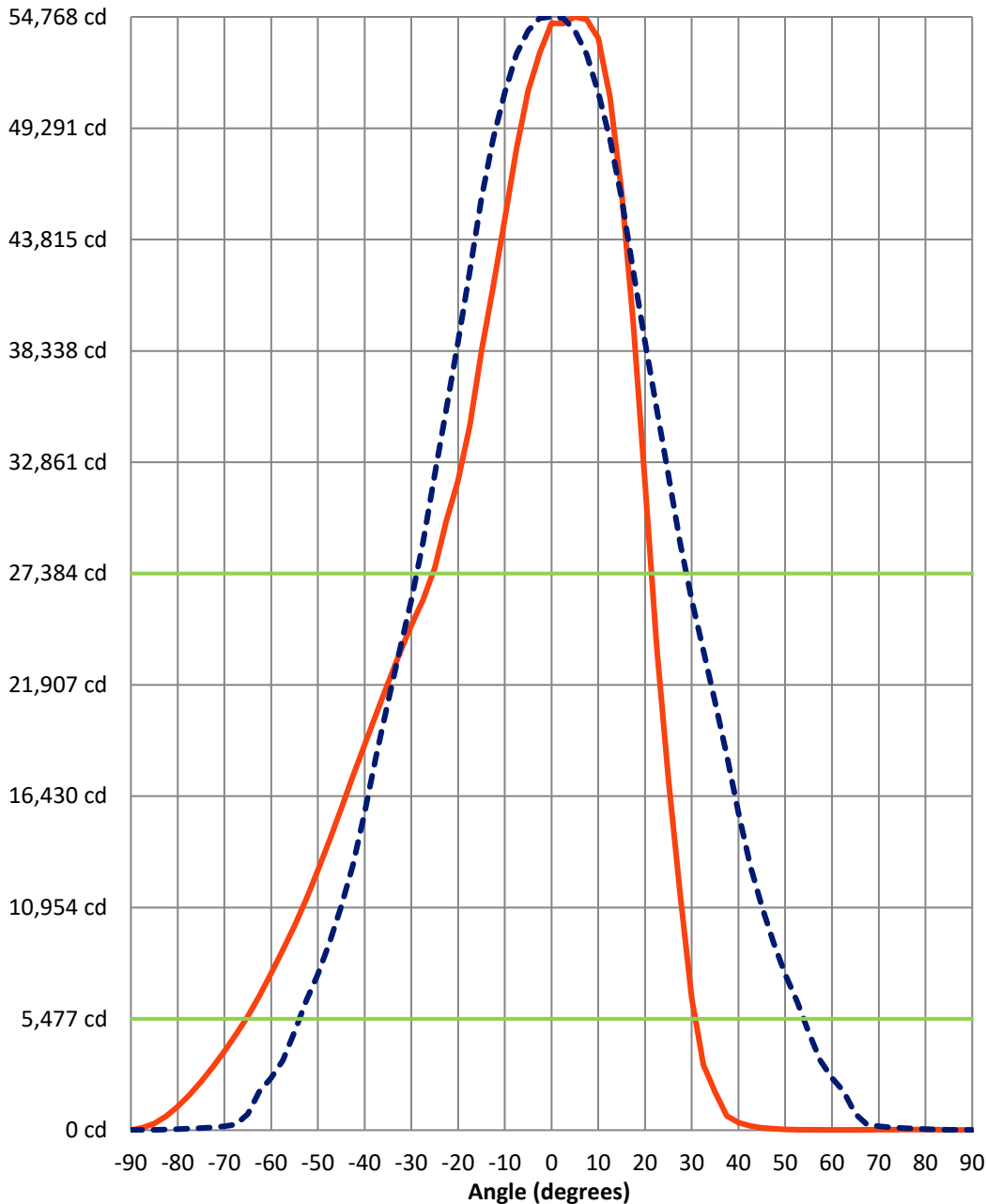
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 57.7°  
 V Angle: 46.8°  
 Lumens: 25811.1  
 Efficiency: 48.1%

**Field:**  
 H Angle: 107.9°  
 V Angle: 96.1°  
 Lumens: 49747.8  
 Efficiency: 92.7%

**Spill:**  
 Lumens: 3915.9  
 Efficiency: 7.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 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°	7.5	8.5	9.4	9.9	10.4	10.8	11.3	11.8	12.2	12.7	13.1
87.5°	7.5	8.7	10.1	10.1	10.4	10.8	11.4	11.3	11.1	10.8	10.4
85°	7.5	9.0	10.7	11.4	12.3	13.6	15.2	15.5	15.6	15.5	15.2
82.5°	7.5	9.3	11.3	12.6	14.3	16.4	19.1	19.8	20.1	21.1	23.4
80°	7.5	9.6	12.0	13.8	16.2	19.2	22.5	22.9	24.8	28.2	33.3
77.5°	7.5	9.8	12.6	14.9	18.0	21.1	23.3	25.3	29.2	35.0	40.9
75°	7.5	10.1	13.2	16.1	19.5	21.5	24.1	27.5	33.0	37.5	42.1
72.5°	7.5	10.4	13.8	17.2	19.6	21.8	24.8	29.2	33.9	38.5	43.2
70°	7.5	10.6	14.3	18.0	19.6	22.1	25.4	29.9	34.7	39.5	45.5
67.5°	7.5	10.9	14.9	17.9	19.6	22.2	26.2	30.5	35.4	41.7	47.9
65°	7.5	11.1	15.4	17.7	19.5	22.7	26.9	31.1	37.3	43.8	50.6
62.5°	7.5	11.3	15.9	17.5	19.3	23.4	27.7	32.4	39.1	46.0	53.9
60°	7.5	11.5	16.4	17.2	19.2	24.2	28.4	33.9	40.8	48.5	56.9
57.5°	7.5	11.7	16.2	17.0	19.8	24.9	29.9	35.3	42.6	50.7	58.4
55°	7.5	11.9	16.1	16.7	20.4	25.7	31.4	37.0	44.2	52.5	59.4
52.5°	7.5	12.1	16.0	16.3	21.1	26.5	32.8	38.8	45.6	53.5	60.3
50°	7.5	12.3	15.9	16.0	21.7	27.7	34.2	40.9	46.7	54.5	60.7
47.5°	7.5	12.5	15.8	15.8	22.3	28.8	35.7	43.1	47.7	55.5	61.7
45°	7.5	12.6	15.7	16.2	22.9	29.9	37.8	45.5	50.4	57.5	63.6
42.5°	7.5	12.7	15.6	16.7	23.5	31.0	40.0	48.2	53.6	60.1	66.8
40°	7.5	12.9	15.6	17.3	24.1	32.0	42.3	51.2	57.5	63.6	71.0
37.5°	7.5	13.0	15.6	18.2	24.9	33.0	44.6	54.5	62.6	69.8	76.2
35°	7.5	13.1	15.6	19.1	25.6	34.5	47.1	58.0	68.0	77.3	83.6
32.5°	7.5	13.2	15.6	20.1	26.2	36.4	49.6	61.8	73.6	85.6	97.4
30°	7.5	13.2	15.7	21.0	26.8	38.2	52.6	65.8	79.5	94.9	113.4
27.5°	7.5	13.3	15.8	22.0	28.8	40.0	55.5	70.6	86.1	104.9	131.2
25°	7.5	13.3	15.8	23.0	30.9	41.8	58.5	75.3	94.1	118.2	152.7
22.5°	7.5	13.4	15.9	24.0	33.2	44.4	61.5	80.1	102.5	133.8	224.1
20°	7.5	13.4	16.0	25.0	35.6	49.1	64.5	84.8	111.0	150.1	304.1
17.5°	7.5	13.4	16.1	26.0	38.0	54.0	70.0	89.5	119.7	166.9	390.7
15°	7.5	13.4	16.2	27.0	40.5	58.9	77.1	96.6	128.4	184.0	481.9
12.5°	7.5	13.4	16.4	27.9	43.0	63.8	84.1	106.9	141.8	201.1	575.1
10°	7.5	13.3	16.5	28.8	45.4	68.6	91.0	117.1	159.1	227.4	663.1
7.5°	7.5	13.3	16.6	29.7	47.8	73.3	97.7	127.2	176.4	254.7	734.7
5°	7.5	13.2	16.8	31.2	52.3	82.2	110.4	146.7	209.7	306.6	849.7
2.5°	7.5	13.1	16.9	31.9	54.4	86.3	116.4	155.8	225.2	330.4	891.6
0°	7.5	13.3	18.2	35.8	63.2	103.2	145.6	204.8	301.7	441.9	1008.0
-2.5°	7.5	13.6	19.5	39.6	71.8	119.6	174.0	252.6	375.9	549.9	1112.9
-5°	7.5	13.8	20.7	43.2	80.0	135.2	201.4	298.4	446.8	652.7	1206.5
-7.5°	7.5	14.0	21.9	46.6	87.7	150.0	227.3	341.5	513.2	748.9	1288.6
-10°	7.5	14.2	23.0	49.7	94.8	163.6	251.5	381.3	574.0	836.9	1365.2
-12.5°	7.5	14.3	24.1	52.6	101.3	176.0	273.5	417.1	631.7	916.3	1430.9
-15°	7.5	14.5	25.1	55.2	107.1	186.9	293.0	455.4	687.4	986.6	1481.6
-17.5°	7.5	14.6	25.9	57.3	112.0	196.1	314.4	494.5	736.4	1046.8	1517.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.5	14.7	26.7	59.1	116.0	203.6	340.0	528.5	778.3	1096.2	1536.5
-25°	7.5	14.8	27.4	60.5	119.0	215.1	361.7	557.1	812.7	1134.1	1539.8
-27.5°	7.5	14.8	28.0	61.5	121.0	226.7	379.4	579.9	839.1	1163.9	1576.3
-30°	7.5	14.9	28.4	62.0	122.4	235.7	392.8	596.6	861.7	1190.6	1599.4
-32.5°	7.5	14.9	28.7	62.0	127.0	242.0	401.8	610.8	878.6	1206.4	1606.4
-35°	7.5	14.8	28.9	61.5	130.0	245.6	408.2	619.9	887.0	1211.1	1596.9
-37.5°	7.5	14.8	28.9	60.5	131.4	247.2	411.2	622.3	886.7	1204.7	1549.7
-40°	7.5	14.7	28.8	59.0	131.1	248.1	410.0	618.0	877.6	1193.6	1499.9
-42.5°	7.5	14.6	28.5	57.6	130.4	246.4	404.5	607.0	863.7	1152.9	1440.7
-45°	7.5	14.5	28.1	56.9	129.6	241.8	394.7	591.9	843.0	1101.8	1373.9
-47.5°	7.5	14.3	27.6	55.4	127.4	234.6	380.6	574.5	812.9	1043.5	1307.5
-50°	7.5	14.1	26.9	55.0	123.8	224.8	366.7	551.3	762.6	985.2	1232.7
-52.5°	7.5	13.9	26.1	54.4	118.8	212.3	349.7	522.5	713.6	920.2	1150.6
-55°	7.5	13.7	25.2	53.2	112.5	201.8	329.0	489.0	662.3	848.9	1068.0
-57.5°	7.5	13.4	24.1	51.4	104.9	190.1	304.7	456.7	606.1	779.6	978.2
-60°	7.5	13.2	22.9	49.1	96.3	176.4	278.0	416.1	547.3	706.9	885.1
-62.5°	7.5	12.9	22.0	46.2	90.3	160.9	255.7	370.9	492.4	628.8	793.0
-65°	7.5	12.5	21.1	42.8	83.3	143.7	230.9	326.4	434.1	556.5	694.8
-67.5°	7.5	12.2	20.2	38.9	75.5	127.7	203.9	288.0	372.8	483.0	603.3
-70°	7.5	11.8	19.1	34.6	66.8	113.2	174.6	247.7	322.9	406.1	512.6
-72.5°	7.5	11.4	18.1	31.7	57.4	97.6	150.2	205.7	271.2	343.5	422.4
-75°	7.5	11.0	16.9	29.0	47.4	80.9	125.3	169.2	217.7	279.0	346.0
-77.5°	7.5	10.6	15.7	26.1	41.0	63.4	99.1	134.0	172.5	215.9	267.4
-80°	7.5	10.2	14.5	23.0	35.2	50.9	71.9	97.8	127.2	160.4	197.4
-82.5°	7.5	9.8	13.3	19.8	29.2	41.2	55.9	67.3	80.9	103.8	129.5
-85°	7.5	9.3	12.0	16.6	23.0	31.2	41.3	48.9	57.0	65.6	74.8
-87.5°	7.5	8.9	10.7	13.2	16.7	21.1	26.3	30.4	34.7	39.2	44.0
-90°	7.5	8.5	9.4	8.9	8.5	8.0	7.5	7.0	6.6	6.1	5.6





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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	13.1	13.1	13.1	13.1	13.6	14.1	14.5	15.0	16.0	16.9	17.9
87.5°	11.0	11.7	12.4	13.2	12.2	11.1	9.8	8.3	8.7	9.2	9.7
85°	16.4	17.8	19.5	20.7	19.8	19.0	18.4	18.0	19.0	19.8	20.4
82.5°	25.7	27.2	28.1	28.3	28.9	29.7	31.4	34.7	36.9	38.3	39.1
80°	35.8	36.8	37.6	40.1	44.6	49.8	55.7	62.1	64.2	64.4	63.7
77.5°	42.0	44.2	48.6	55.2	62.6	70.0	78.1	87.0	89.6	88.8	87.1
75°	45.6	50.9	58.7	68.2	77.9	87.9	98.5	108.5	111.4	108.2	104.1
72.5°	49.0	57.2	67.5	79.9	90.6	100.8	112.3	124.9	129.3	122.8	115.3
70°	52.6	62.9	74.6	86.8	99.0	110.7	121.8	133.9	141.0	131.0	115.8
67.5°	55.6	67.5	80.0	92.5	103.6	115.1	127.6	132.7	136.0	119.8	102.6
65°	59.1	71.7	83.1	94.2	106.0	110.7	114.8	119.2	118.5	100.2	81.8
62.5°	62.6	72.9	83.8	92.6	95.4	98.2	98.2	95.4	91.0	78.3	62.6
60°	63.8	72.9	80.3	83.3	84.0	81.2	77.7	74.2	68.7	58.1	47.3
57.5°	64.6	69.4	72.9	73.8	70.5	65.2	62.7	57.2	52.5	46.3	37.5
55°	64.2	63.6	65.6	63.9	60.1	55.7	51.3	47.7	41.9	40.0	36.0
52.5°	62.6	59.7	58.8	56.8	54.2	49.8	45.5	42.5	41.1	38.8	35.5
50°	62.0	58.3	53.8	53.7	51.6	48.3	43.7	43.1	43.2	41.1	37.3
47.5°	62.7	58.4	52.7	52.8	53.0	54.2	50.3	48.6	49.2	54.7	48.8
45°	64.8	62.5	56.5	56.4	61.6	68.6	74.8	57.6	75.0	83.7	90.5
42.5°	68.2	69.3	72.4	61.6	81.5	106.6	118.6	124.7	118.3	145.7	174.0
40°	75.8	78.4	99.4	107.6	116.1	168.0	240.0	256.8	195.2	271.4	318.5
37.5°	85.1	111.6	148.0	192.1	188.1	296.5	409.2	495.7	487.2	460.6	659.6
35°	95.7	152.4	250.7	348.9	392.0	494.7	702.7	853.3	942.9	997.0	1160.9
32.5°	125.2	200.8	379.1	587.7	767.3	869.2	1065.5	1395.7	1708.1	1894.6	1892.8
30°	177.0	319.9	560.3	880.8	1230.0	1516.4	1678.8	2103.1	2698.4	3121.9	3404.0
27.5°	253.5	464.7	839.9	1304.2	1793.4	2279.6	2603.7	3155.0	3956.2	4601.5	5204.3
25°	346.9	694.7	1154.7	1807.7	2527.0	3144.6	3610.8	4377.1	5392.2	6404.5	7412.9
22.5°	495.8	961.9	1504.2	2358.1	3336.7	4038.6	4723.3	5657.3	6831.5	8252.5	9790.1
20°	703.2	1272.6	1877.2	2790.1	4146.3	4948.7	5789.3	6904.1	8273.5	10000.5	12053.5
17.5°	927.3	1566.1	2243.1	3260.7	4584.0	5695.8	6824.6	8095.0	9629.7	11633.1	13844.7
15°	1163.0	1842.1	2570.0	3680.9	4993.7	6194.9	7530.6	9182.9	10992.6	13159.2	15472.6
12.5°	1404.8	2100.5	2859.6	4051.1	5384.9	6647.1	8071.6	9790.0	11895.3	14436.8	16865.3
10°	1646.4	2341.3	3114.2	4371.9	5751.7	7051.4	8536.1	10294.4	12436.3	14982.6	17607.6
7.5°	1794.6	2500.1	3322.2	4644.2	6088.3	7407.1	8926.1	10699.5	12811.1	15372.9	18078.2
5°	1906.7	2571.6	3430.4	4829.8	6354.3	7670.5	9230.4	11010.0	13036.7	15610.7	18435.6
2.5°	1993.9	2624.2	3516.8	4967.8	6555.4	7813.7	9411.5	11208.7	13271.7	15906.3	18796.5
0°	2055.4	2659.8	3579.5	5062.4	6706.7	7906.1	9529.7	11327.9	13435.8	16163.2	19117.6
-2.5°	2115.2	2769.8	3707.0	5183.1	6728.5	7919.9	9574.7	11332.8	13435.7	16113.4	18984.5
-5°	2152.7	2861.3	3807.7	5259.1	6706.1	7891.5	9549.8	11264.8	13289.4	15821.2	18491.2
-7.5°	2172.2	2931.4	3880.4	5270.6	6590.3	7725.0	9251.3	10863.5	12806.1	15178.5	17640.4
-10°	2182.5	2973.5	3872.6	5111.9	6349.7	7457.4	8852.8	10397.3	12227.2	14433.4	16711.2
-12.5°	2211.2	2996.4	3837.6	4938.7	6088.5	7154.8	8410.8	9873.3	11555.7	13600.0	15689.9
-15°	2226.7	3008.0	3788.8	4759.9	5813.9	6819.7	7932.3	9296.7	10828.3	12657.0	14511.2
-17.5°	2231.1	3010.1	3729.4	4583.9	5532.5	6454.4	7461.6	8802.6	10197.1	11776.3	13357.6
-20°	2226.2	3004.5	3662.1	4418.2	5256.0	6189.0	7205.8	8375.7	9624.1	10959.4	12276.8



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2213.9	2992.7	3605.4	4300.6	5123.3	6015.1	6950.4	7962.7	9037.0	10196.5	11532.5
-25°	2207.8	2949.7	3567.4	4217.4	4994.7	5832.3	6682.0	7581.3	8517.9	9732.2	11006.5
-27.5°	2198.1	2904.3	3492.9	4102.0	4846.1	5647.6	6444.5	7265.4	8226.8	9317.8	10500.4
-30°	2169.1	2794.5	3391.5	3966.8	4688.7	5460.9	6222.0	7002.4	7912.0	8940.6	10037.7
-32.5°	2087.4	2670.0	3256.9	3834.8	4499.3	5256.3	5992.2	6748.9	7592.8	8514.4	9569.9
-35°	1996.1	2541.5	3105.9	3671.0	4278.1	5008.2	5724.2	6455.6	7239.0	8103.6	9087.6
-37.5°	1929.6	2403.4	2944.2	3486.5	4069.2	4717.8	5420.0	6124.0	6865.6	7689.6	8620.2
-40°	1850.4	2256.3	2780.1	3299.2	3829.6	4427.6	5083.5	5759.2	6455.5	7277.2	8130.0
-42.5°	1761.9	2153.8	2610.0	3100.5	3600.8	4144.3	4729.7	5372.6	6071.2	6835.6	7636.4
-45°	1685.5	2038.7	2439.9	2898.9	3363.6	3856.0	4398.9	4973.7	5663.8	6374.9	7118.6
-47.5°	1598.5	1918.4	2295.7	2685.8	3123.5	3577.5	4057.7	4617.6	5230.6	5896.6	6578.7
-50°	1504.5	1809.4	2131.2	2493.9	2881.9	3297.5	3735.8	4246.7	4806.2	5401.2	6028.9
-52.5°	1410.0	1689.2	1985.4	2301.1	2653.4	3026.9	3433.0	3887.9	4383.1	4904.5	5458.4
-55°	1306.4	1567.2	1836.6	2123.0	2430.3	2769.2	3132.2	3539.0	3964.7	4437.4	4903.2
-57.5°	1199.9	1435.8	1684.3	1949.4	2225.7	2513.8	2842.8	3187.3	3572.0	3976.0	4387.1
-60°	1088.8	1300.0	1525.2	1769.1	2025.6	2285.3	2551.8	2857.0	3183.6	3519.3	3886.7
-62.5°	972.1	1161.8	1363.2	1579.4	1814.2	2049.1	2288.1	2540.6	2805.2	3106.7	3413.3
-65°	856.5	1019.9	1199.2	1391.5	1592.7	1803.7	2018.0	2234.3	2465.7	2714.2	2972.3
-67.5°	734.7	882.2	1036.5	1199.7	1378.4	1557.5	1744.5	1940.0	2136.7	2338.0	2549.9
-70°	625.0	742.0	876.4	1018.9	1163.1	1309.8	1471.5	1639.3	1810.7	1981.9	2158.1
-72.5°	514.4	615.0	722.4	836.2	957.3	1078.1	1204.3	1335.3	1474.5	1618.6	1765.0
-75°	413.9	485.2	573.2	668.1	760.6	851.6	946.2	1052.7	1162.9	1274.0	1384.9
-77.5°	321.0	377.8	439.1	504.4	568.8	641.8	716.7	793.0	872.8	954.8	1037.7
-80°	232.4	268.3	313.5	362.3	409.0	456.3	504.9	554.6	606.6	664.0	726.0
-82.5°	154.0	179.6	206.5	234.5	260.5	286.4	314.0	347.9	382.1	417.1	452.9
-85°	82.3	90.0	105.8	122.6	139.1	155.7	172.4	188.9	205.9	222.4	238.4
-87.5°	47.8	51.6	55.5	59.4	63.6	67.8	71.9	76.1	81.7	87.3	93.0
-90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	18.8	19.3	19.7	20.2	20.6	21.1	21.6	22.0	22.5	23.0	23.5
87.5°	10.3	9.5	8.8	8.0	7.2	9.4	11.7	14.0	16.4	15.2	13.9
85°	20.9	21.0	21.1	21.2	21.2	23.7	26.2	28.5	30.8	28.5	25.9
82.5°	39.3	38.7	37.3	35.4	32.8	32.2	31.3	30.1	28.7	27.4	26.3
80°	62.3	59.1	55.0	50.2	44.8	42.0	39.4	36.5	33.3	32.4	31.6
77.5°	83.8	77.9	71.0	63.6	55.6	50.6	46.1	41.3	36.1	34.6	33.7
75°	98.9	91.5	81.6	71.1	59.9	52.1	46.0	39.9	33.8	32.3	32.1
72.5°	106.7	96.5	83.9	69.1	55.0	45.7	39.9	34.8	30.2	28.5	27.8
70°	100.4	84.9	70.4	56.7	44.2	35.8	31.7	28.1	24.9	24.1	24.6
67.5°	84.8	69.2	56.0	44.3	34.2	27.4	25.0	23.1	21.6	21.2	21.1
65°	66.3	53.1	42.3	33.4	26.2	22.1	21.2	20.5	19.7	19.1	18.5
62.5°	48.9	38.9	32.1	27.0	23.1	20.6	20.0	19.2	18.2	17.3	16.5
60°	38.1	30.2	26.8	24.6	22.6	20.9	20.3	19.8	19.5	19.2	18.7
57.5°	33.1	29.1	26.0	24.7	23.6	22.8	22.4	22.0	21.4	20.5	19.9
55°	32.3	29.2	26.5	25.8	25.3	24.7	24.1	23.4	22.7	21.8	21.5
52.5°	32.4	31.0	28.9	28.0	28.4	27.7	26.1	26.9	27.0	26.3	25.9
50°	36.6	36.9	37.4	34.3	37.5	38.8	36.9	38.5	40.9	41.1	41.0
47.5°	51.8	55.3	59.8	56.3	60.4	66.7	66.1	66.6	72.2	72.9	72.7
45°	82.7	97.6	104.7	108.7	107.2	121.7	124.6	119.9	127.5	128.9	126.7
42.5°	165.5	173.8	192.5	207.2	198.8	213.8	218.2	204.7	217.9	223.8	217.4
40°	370.6	294.7	349.9	388.0	374.7	345.6	396.1	378.0	376.3	397.3	380.8
37.5°	731.7	649.6	706.1	814.9	810.9	673.9	826.8	816.9	686.6	840.9	827.5
35°	1312.3	1464.4	1396.5	1600.0	1659.0	1689.6	1774.4	1862.0	1766.1	1892.4	1889.1
32.5°	2349.8	2665.1	2804.6	2829.4	3090.5	3303.3	3213.2	3554.6	3533.7	3619.1	3706.3
30°	3709.6	4412.6	4768.4	4777.3	5210.6	5591.9	5712.9	6141.3	6394.6	6352.6	6776.9
27.5°	5918.7	6609.4	7195.3	7695.3	8032.9	8634.2	9471.1	9893.4	10515.9	10760.1	11346.7
25°	8414.8	9272.9	10197.9	11068.0	11782.5	12859.5	13901.2	14557.9	15448.6	16146.7	16856.0
22.5°	11118.9	12257.2	13444.0	14745.6	16074.5	17388.5	18653.6	19867.1	21054.6	22366.3	23168.1
20°	13883.4	15170.0	16614.7	18378.7	20222.4	21806.9	23534.9	25437.6	27256.6	28949.6	30228.4
17.5°	15984.3	17975.3	19540.3	21448.7	23738.2	25970.4	28173.4	30682.5	32996.6	35155.2	37080.2
15°	17588.6	19675.7	21944.1	24247.5	26659.4	29317.2	32347.5	35093.1	37951.7	40490.5	42868.1
12.5°	18986.9	21105.8	23479.8	26166.2	29208.4	32061.9	35237.8	38671.3	41704.3	44686.7	46917.5
10°	20019.0	22372.8	24779.5	27480.5	30582.8	33914.3	37356.2	40826.9	44227.6	47106.6	49503.3
7.5°	20588.4	23088.2	25606.1	28426.7	31616.2	34893.2	38331.5	41955.2	45378.2	48343.1	50544.2
5°	21051.8	23593.2	26082.1	28913.9	32237.1	35492.3	38786.1	42244.7	45828.9	48753.2	51043.1
2.5°	21456.3	23935.9	26363.7	29120.8	32545.6	35815.3	39201.8	42787.1	46253.1	49074.1	51303.1
0°	21807.4	24148.1	26522.5	29255.5	32836.9	36146.1	39477.9	42986.0	46516.8	49264.7	51520.9
-2.5°	21553.4	23848.5	26188.1	28981.7	32397.1	35652.3	39002.9	42555.5	45899.8	48683.2	50870.7
-5°	20891.1	23101.9	25425.1	28211.9	31472.1	34660.6	37966.6	41388.5	44532.1	47315.0	49327.1
-7.5°	19922.8	22087.1	24401.3	27144.3	30178.2	33072.0	36026.6	39198.6	42327.7	44784.6	46701.1
-10°	18846.5	20906.3	23036.3	25448.9	28135.2	30838.2	33552.9	36501.7	39258.7	41565.7	43410.6
-12.5°	17568.6	19398.3	21359.6	23463.8	25930.0	28504.4	31093.3	33676.1	36218.9	38294.2	39965.5
-15°	16188.4	17806.4	19597.5	21632.9	23830.3	26102.0	28437.3	30903.9	33193.9	35127.0	36600.5
-17.5°	14826.8	16275.7	18096.2	19946.7	21722.5	23805.6	26128.2	28167.9	30257.8	31993.6	33295.3
-20°	13672.5	15231.3	16814.3	18395.4	20091.7	22117.0	24086.2	26009.3	27866.4	29447.0	30741.3



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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°	12920.0	14289.6	15640.5	17136.0	18860.4	20647.6	22430.0	24178.2	25859.0	27360.5	28591.6
-25°	12235.8	13394.8	14732.4	16250.9	17707.1	19274.7	20957.5	22418.8	24013.2	25372.9	26426.2
-27.5°	11637.6	12784.6	14097.3	15463.1	16780.1	18193.1	19725.8	21120.6	22555.3	23862.7	24781.8
-30°	11116.8	12305.0	13539.4	14788.8	16029.2	17336.5	18668.6	20016.7	21333.1	22518.6	23401.9
-32.5°	10673.0	11787.6	12945.3	14108.0	15238.9	16429.7	17665.5	18904.8	20124.4	21161.7	22026.5
-35°	10168.4	11235.5	12311.2	13355.4	14402.8	15468.0	16614.9	17775.0	18866.2	19813.3	20657.6
-37.5°	9605.2	10633.4	11615.1	12565.6	13536.6	14521.5	15583.9	16649.7	17652.0	18509.2	19314.2
-40°	9044.8	9981.6	10870.8	11758.0	12648.1	13570.5	14531.3	15485.7	16365.5	17176.3	17926.4
-42.5°	8462.4	9282.5	10091.8	10917.7	11738.8	12570.6	13429.0	14296.9	15080.8	15820.4	16485.3
-45°	7874.9	8578.7	9293.6	10050.2	10800.0	11546.7	12289.8	13022.5	13756.5	14445.6	15007.3
-47.5°	7250.1	7885.2	8534.3	9184.8	9856.7	10538.3	11187.9	11822.1	12470.5	13086.3	13550.3
-50°	6619.6	7207.5	7794.3	8367.4	8961.4	9560.9	10152.8	10711.0	11254.1	11777.9	12140.6
-52.5°	5984.5	6528.3	7065.9	7584.2	8099.6	8610.6	9112.1	9607.3	10083.3	10532.1	10819.7
-55°	5381.5	5866.4	6339.2	6791.8	7246.7	7695.4	8137.8	8571.0	8981.7	9367.7	9589.5
-57.5°	4814.2	5236.6	5650.6	6040.3	6421.0	6790.9	7181.8	7575.4	7945.3	8276.9	8455.7
-60°	4261.6	4642.0	4997.3	5323.1	5649.6	5974.4	6303.7	6628.8	6945.4	7220.8	7374.7
-62.5°	3718.0	4043.2	4345.5	4625.8	4895.5	5163.8	5449.5	5723.6	5984.4	6197.0	6327.5
-65°	3241.8	3517.3	3743.7	3966.8	4188.4	4424.3	4661.6	4887.9	5102.1	5268.7	5378.5
-67.5°	2778.8	3005.3	3193.8	3379.0	3564.4	3751.9	3943.0	4128.2	4306.0	4440.7	4536.2
-70°	2338.6	2509.8	2657.4	2808.1	2961.8	3115.1	3268.6	3416.4	3557.6	3660.2	3737.0
-72.5°	1912.8	2045.1	2160.0	2277.0	2392.5	2511.3	2630.2	2744.5	2853.3	2926.8	2980.7
-75°	1495.0	1591.0	1683.1	1772.4	1858.5	1946.9	2034.4	2118.0	2197.1	2252.8	2297.2
-77.5°	1125.6	1193.7	1253.8	1312.7	1370.0	1431.4	1491.4	1548.0	1600.9	1639.6	1672.2
-80°	788.5	832.5	870.8	906.9	940.6	978.6	1015.9	1051.1	1084.0	1106.6	1124.6
-82.5°	489.3	515.1	538.2	559.4	578.7	598.6	617.1	633.9	648.9	666.6	683.0
-85°	253.8	264.5	274.3	283.3	291.7	299.8	307.2	313.7	319.5	322.7	324.9
-87.5°	98.7	101.2	103.4	105.5	107.4	110.0	112.4	114.7	116.8	118.7	120.5
-90°	5.6	5.2	4.7	4.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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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°	23.9	24.4	24.4	24.4	24.4	24.4	23.9	23.5	23.0	22.5	22.0
87.5°	12.6	11.3	10.3	9.4	10.3	11.3	12.6	13.9	15.2	16.4	14.0
85°	23.3	20.6	18.7	16.9	18.7	20.6	23.3	25.9	28.5	30.8	28.5
82.5°	25.3	24.4	24.4	24.4	24.4	24.4	25.3	26.3	27.4	28.7	30.1
80°	30.8	29.9	30.9	31.9	30.9	29.9	30.8	31.6	32.4	33.3	36.5
77.5°	32.8	31.9	31.9	31.9	31.9	31.9	32.8	33.7	34.6	36.1	41.3
75°	32.0	31.9	31.0	30.0	31.0	31.9	32.0	32.1	32.3	33.8	39.9
72.5°	27.2	26.5	26.3	26.3	26.3	26.5	27.2	27.8	28.5	30.2	34.8
70°	25.3	26.2	25.4	24.4	25.4	26.2	25.3	24.6	24.1	24.9	28.1
67.5°	21.0	20.8	20.6	20.6	20.6	20.8	21.0	21.1	21.2	21.6	23.1
65°	17.8	17.1	16.9	16.9	16.9	17.1	17.8	18.5	19.1	19.7	20.5
62.5°	15.8	15.2	15.0	15.0	15.0	15.2	15.8	16.5	17.3	18.2	19.2
60°	18.0	17.1	16.1	15.0	16.1	17.1	18.0	18.7	19.2	19.5	19.8
57.5°	19.4	18.9	18.8	18.8	18.8	18.9	19.4	19.9	20.5	21.4	22.0
55°	21.1	20.7	20.6	20.6	20.6	20.7	21.1	21.5	21.8	22.7	23.4
52.5°	25.4	24.6	23.6	22.5	23.6	24.6	25.4	25.9	26.3	27.0	26.9
50°	40.1	38.2	37.2	37.5	37.2	38.2	40.1	41.0	41.1	40.9	38.5
47.5°	74.1	74.1	73.7	73.2	73.7	74.1	74.1	72.7	72.9	72.2	66.6
45°	126.1	121.1	116.3	114.5	116.3	121.1	126.1	126.7	128.9	127.5	119.9
42.5°	221.6	220.5	216.6	212.1	216.6	220.5	221.6	217.4	223.8	217.9	204.7
40°	385.2	379.9	370.9	373.5	370.9	379.9	385.2	380.8	397.3	376.3	378.0
37.5°	802.1	763.7	705.3	705.8	705.3	763.7	802.1	827.5	840.9	686.6	816.9
35°	1877.6	1909.2	1871.9	1871.4	1871.9	1909.2	1877.6	1889.1	1892.4	1766.1	1862.0
32.5°	3593.2	3541.0	3329.4	3219.1	3329.4	3541.0	3593.2	3706.3	3619.1	3533.7	3554.6
30°	6769.4	6803.0	6485.7	6492.7	6485.7	6803.0	6769.4	6776.9	6352.6	6394.6	6141.3
27.5°	11583.2	11840.9	11773.2	11660.2	11773.2	11840.9	11583.2	11346.7	10760.1	10515.9	9893.4
25°	17321.1	17515.2	17385.3	17306.3	17385.3	17515.2	17321.1	16856.0	16146.7	15448.6	14557.9
22.5°	23946.7	24217.0	24149.2	23806.5	24149.2	24217.0	23946.7	23168.1	22366.3	21054.6	19867.1
20°	31281.5	31744.4	32013.3	31840.2	32013.3	31744.4	31281.5	30228.4	28949.6	27256.6	25437.6
17.5°	38447.4	39044.4	39502.2	39656.2	39502.2	39044.4	38447.4	37080.2	35155.2	32996.6	30682.5
15°	44473.2	45326.8	45928.1	46141.4	45928.1	45326.8	44473.2	42868.1	40490.5	37951.7	35093.1
12.5°	48797.4	49908.6	50613.7	50825.5	50613.7	49908.6	48797.4	46917.5	44686.7	41704.3	38671.3
10°	51175.4	52576.0	53378.6	53713.3	53378.6	52576.0	51175.4	49503.3	47106.6	44227.6	40826.9
7.5°	52503.9	53769.0	54527.4	54639.7	54527.4	53769.0	52503.9	50544.2	48343.1	45378.2	41955.2
5°	52935.1	54084.4	54710.3	54768.2	54710.3	54084.4	52935.1	51043.1	48753.2	45828.9	42244.7
2.5°	53124.0	54095.2	54556.9	54438.8	54556.9	54095.2	53124.0	51303.1	49074.1	46253.1	42787.1
0°	53027.3	53895.4	54385.3	54458.5	54385.3	53895.4	53027.3	51520.9	49264.7	46516.8	42986.0
-2.5°	52239.8	52886.3	53233.7	53010.4	53233.7	52886.3	52239.8	50870.7	48683.2	45899.8	42555.5
-5°	50444.5	50909.6	51054.7	51136.1	51054.7	50909.6	50444.5	49327.1	47315.0	44532.1	41388.5
-7.5°	47849.5	48229.0	48372.3	48271.8	48372.3	48229.0	47849.5	46701.1	44784.6	42327.7	39198.6
-10°	44429.2	44777.0	44898.6	44829.3	44898.6	44777.0	44429.2	43410.6	41565.7	39258.7	36501.7
-12.5°	40967.0	41379.2	41473.8	41479.7	41473.8	41379.2	40967.0	39965.5	38294.2	36218.9	33676.1
-15°	37563.5	38034.7	38178.8	38304.7	38178.8	38034.7	37563.5	36600.5	35127.0	33193.9	30903.9
-17.5°	34219.2	34687.3	34808.9	34644.5	34808.9	34687.3	34219.2	33295.3	31993.6	30257.8	28167.9
-20°	31470.2	31712.8	31971.8	31969.7	31971.8	31712.8	31470.2	30741.3	29447.0	27866.4	26009.3



REPORT NUMBER: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	29199.8	29601.0	29821.5	29978.2	29821.5	29601.0	29199.8	28591.6	27360.5	25859.0	24178.2
-25°	27070.3	27411.1	27548.1	27652.5	27548.1	27411.1	27070.3	26426.2	25372.9	24013.2	22418.8
-27.5°	25429.9	25775.7	25971.3	26087.1	25971.3	25775.7	25429.9	24781.8	23862.7	22555.3	21120.6
-30°	24121.7	24461.5	24694.5	24840.7	24694.5	24461.5	24121.7	23401.9	22518.6	21333.1	20016.7
-32.5°	22712.0	23067.3	23310.2	23461.1	23310.2	23067.3	22712.0	22026.5	21161.7	20124.4	18904.8
-35°	21247.1	21602.6	21864.7	21987.6	21864.7	21602.6	21247.1	20657.6	19813.3	18866.2	17775.0
-37.5°	19824.0	20155.8	20387.4	20478.5	20387.4	20155.8	19824.0	19314.2	18509.2	17652.0	16649.7
-40°	18340.5	18653.5	18868.7	18952.5	18868.7	18653.5	18340.5	17926.4	17176.3	16365.5	15485.7
-42.5°	16844.6	17136.7	17335.4	17418.9	17335.4	17136.7	16844.6	16485.3	15820.4	15080.8	14296.9
-45°	15329.4	15589.2	15757.4	15821.6	15757.4	15589.2	15329.4	15007.3	14445.6	13756.5	13022.5
-47.5°	13837.9	14072.2	14216.7	14263.6	14216.7	14072.2	13837.9	13550.3	13086.3	12470.5	11822.1
-50°	12382.0	12573.9	12706.2	12780.8	12706.2	12573.9	12382.0	12140.6	11777.9	11254.1	10711.0
-52.5°	11035.4	11209.7	11313.5	11354.2	11313.5	11209.7	11035.4	10819.7	10532.1	10083.3	9607.3
-55°	9773.2	9924.0	10012.3	10047.8	10012.3	9924.0	9773.2	9589.5	9367.7	8981.7	8571.0
-57.5°	8607.7	8731.2	8814.4	8861.5	8814.4	8731.2	8607.7	8455.7	8276.9	7945.3	7575.4
-60°	7502.6	7603.9	7673.7	7714.6	7673.7	7603.9	7502.6	7374.7	7220.8	6945.4	6628.8
-62.5°	6435.8	6521.9	6578.4	6610.9	6578.4	6521.9	6435.8	6327.5	6197.0	5984.4	5723.6
-65°	5471.3	5546.8	5583.2	5597.3	5583.2	5546.8	5471.3	5378.5	5268.7	5102.1	4887.9
-67.5°	4618.1	4686.0	4710.6	4715.1	4710.6	4686.0	4618.1	4536.2	4440.7	4306.0	4128.2
-70°	3803.5	3858.8	3877.5	3879.8	3877.5	3858.8	3803.5	3737.0	3660.2	3557.6	3416.4
-72.5°	3025.1	3060.0	3086.9	3104.6	3086.9	3060.0	3025.1	2980.7	2926.8	2853.3	2744.5
-75°	2334.4	2364.3	2377.2	2382.0	2377.2	2364.3	2334.4	2297.2	2252.8	2197.1	2118.0
-77.5°	1700.0	1722.8	1728.0	1726.9	1728.0	1722.8	1700.0	1672.2	1639.6	1600.9	1548.0
-80°	1138.9	1149.5	1156.4	1160.0	1156.4	1149.5	1138.9	1124.6	1106.6	1084.0	1051.1
-82.5°	697.7	710.6	697.4	681.4	697.4	710.6	697.7	683.0	666.6	648.9	633.9
-85°	326.4	326.9	328.1	328.5	328.1	326.9	326.4	324.9	322.7	319.5	313.7
-87.5°	122.1	123.5	122.9	122.0	122.9	123.5	122.1	120.5	118.7	116.8	114.7
-90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	21.6	21.1	20.6	20.2	19.7	19.3	18.8	17.9	16.9	16.0	15.0
87.5°	11.7	9.4	7.2	8.0	8.8	9.5	10.3	9.7	9.2	8.7	8.3
85°	26.2	23.7	21.2	21.2	21.1	21.0	20.9	20.4	19.8	19.0	18.0
82.5°	31.3	32.2	32.8	35.4	37.3	38.7	39.3	39.1	38.3	36.9	34.7
80°	39.4	42.0	44.8	50.2	55.0	59.1	62.3	63.7	64.4	64.2	62.1
77.5°	46.1	50.6	55.6	63.6	71.0	77.9	83.8	87.1	88.8	89.6	87.0
75°	46.0	52.1	59.9	71.1	81.6	91.5	98.9	104.1	108.2	111.4	108.5
72.5°	39.9	45.7	55.0	69.1	83.9	96.5	106.7	115.3	122.8	129.3	124.9
70°	31.7	35.8	44.2	56.7	70.4	84.9	100.4	115.8	131.0	141.0	133.9
67.5°	25.0	27.4	34.2	44.3	56.0	69.2	84.8	102.6	119.8	136.0	132.7
65°	21.2	22.1	26.2	33.4	42.3	53.1	66.3	81.8	100.2	118.5	119.2
62.5°	20.0	20.6	23.1	27.0	32.1	38.9	48.9	62.6	78.3	91.0	95.4
60°	20.3	20.9	22.6	24.6	26.8	30.2	38.1	47.3	58.1	68.7	74.2
57.5°	22.4	22.8	23.6	24.7	26.0	29.1	33.1	37.5	46.3	52.5	57.2
55°	24.1	24.7	25.3	25.8	26.5	29.2	32.3	36.0	40.0	41.9	47.7
52.5°	26.1	27.7	28.4	28.0	28.9	31.0	32.4	35.5	38.8	41.1	42.5
50°	36.9	38.8	37.5	34.3	37.4	36.9	36.6	37.3	41.1	43.2	43.1
47.5°	66.1	66.7	60.4	56.3	59.8	55.3	51.8	48.8	54.7	49.2	48.6
45°	124.6	121.7	107.2	108.7	104.7	97.6	82.7	90.5	83.7	75.0	57.6
42.5°	218.2	213.8	198.8	207.2	192.5	173.8	165.5	174.0	145.7	118.3	124.7
40°	396.1	345.6	374.7	388.0	349.9	294.7	370.6	318.5	271.4	195.2	256.8
37.5°	826.8	673.9	810.9	814.9	706.1	649.6	731.7	659.6	460.6	487.2	495.7
35°	1774.4	1689.6	1659.0	1600.0	1396.5	1464.4	1312.3	1160.9	997.0	942.9	853.3
32.5°	3213.2	3303.3	3090.5	2829.4	2804.6	2665.1	2349.8	1892.8	1894.6	1708.1	1395.7
30°	5712.9	5591.9	5210.6	4777.3	4768.4	4412.6	3709.6	3404.0	3121.9	2698.4	2103.1
27.5°	9471.1	8634.2	8032.9	7695.3	7195.3	6609.4	5918.7	5204.3	4601.5	3956.2	3155.0
25°	13901.2	12859.5	11782.5	11068.0	10197.9	9272.9	8414.8	7412.9	6404.5	5392.2	4377.1
22.5°	18653.6	17388.5	16074.5	14745.6	13444.0	12257.2	11118.9	9790.1	8252.5	6831.5	5657.3
20°	23534.9	21806.9	20222.4	18378.7	16614.7	15170.0	13883.4	12053.5	10000.5	8273.5	6904.1
17.5°	28173.4	25970.4	23738.2	21448.7	19540.3	17975.3	15984.3	13844.7	11633.1	9629.7	8095.0
15°	32347.5	29317.2	26659.4	24247.5	21944.1	19675.7	17588.6	15472.6	13159.2	10992.6	9182.9
12.5°	35237.8	32061.9	29208.4	26166.2	23479.8	21105.8	18986.9	16865.3	14436.8	11895.3	9790.0
10°	37356.2	33914.3	30582.8	27480.5	24779.5	22372.8	20019.0	17607.6	14982.6	12436.3	10294.4
7.5°	38331.5	34893.2	31616.2	28426.7	25606.1	23088.2	20588.4	18078.2	15372.9	12811.1	10699.5
5°	38786.1	35492.3	32237.1	28913.9	26082.1	23593.2	21051.8	18435.6	15610.7	13036.7	11010.0
2.5°	39201.8	35815.3	32545.6	29120.8	26363.7	23935.9	21456.3	18796.5	15906.3	13271.7	11208.7
0°	39477.9	36146.1	32836.9	29255.5	26522.5	24148.1	21807.4	19117.6	16163.2	13435.8	11327.9
-2.5°	39002.9	35652.3	32397.1	28981.7	26188.1	23848.5	21553.4	18984.5	16113.4	13435.7	11332.8
-5°	37966.6	34660.6	31472.1	28211.9	25425.1	23101.9	20891.1	18491.2	15821.2	13289.4	11264.8
-7.5°	36026.6	33072.0	30178.2	27144.3	24401.3	22087.1	19922.8	17640.4	15178.5	12806.1	10863.5
-10°	33552.9	30838.2	28135.2	25448.9	23036.3	20906.3	18846.5	16711.2	14433.4	12227.2	10397.3
-12.5°	31093.3	28504.4	25930.0	23463.8	21359.6	19398.3	17568.6	15689.9	13600.0	11555.7	9873.3
-15°	28437.3	26102.0	23830.3	21632.9	19597.5	17806.4	16188.4	14511.2	12657.0	10828.3	9296.7
-17.5°	26128.2	23805.6	21722.5	19946.7	18096.2	16275.7	14826.8	13357.6	11776.3	10197.1	8802.6
-20°	24086.2	22117.0	20091.7	18395.4	16814.3	15231.3	13672.5	12276.8	10959.4	9624.1	8375.7



REPORT NUMBER: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-CV1-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22430.0	20647.6	18860.4	17136.0	15640.5	14289.6	12920.0	11532.5	10196.5	9037.0	7962.7
-25°	20957.5	19274.7	17707.1	16250.9	14732.4	13394.8	12235.8	11006.5	9732.2	8517.9	7581.3
-27.5°	19725.8	18193.1	16780.1	15463.1	14097.3	12784.6	11637.6	10500.4	9317.8	8226.8	7265.4
-30°	18668.6	17336.5	16029.2	14788.8	13539.4	12305.0	11116.8	10037.7	8940.6	7912.0	7002.4
-32.5°	17665.5	16429.7	15238.9	14108.0	12945.3	11787.6	10673.0	9569.9	8514.4	7592.8	6748.9
-35°	16614.9	15468.0	14402.8	13355.4	12311.2	11235.5	10168.4	9087.6	8103.6	7239.0	6455.6
-37.5°	15583.9	14521.5	13536.6	12565.6	11615.1	10633.4	9605.2	8620.2	7689.6	6865.6	6124.0
-40°	14531.3	13570.5	12648.1	11758.0	10870.8	9981.6	9044.8	8130.0	7277.2	6455.5	5759.2
-42.5°	13429.0	12570.6	11738.8	10917.7	10091.8	9282.5	8462.4	7636.4	6835.6	6071.2	5372.6
-45°	12289.8	11546.7	10800.0	10050.2	9293.6	8578.7	7874.9	7118.6	6374.9	5663.8	4973.7
-47.5°	11187.9	10538.3	9856.7	9184.8	8534.3	7885.2	7250.1	6578.7	5896.6	5230.6	4617.6
-50°	10152.8	9560.9	8961.4	8367.4	7794.3	7207.5	6619.6	6028.9	5401.2	4806.2	4246.7
-52.5°	9112.1	8610.6	8099.6	7584.2	7065.9	6528.3	5984.5	5458.4	4904.5	4383.1	3887.9
-55°	8137.8	7695.4	7246.7	6791.8	6339.2	5866.4	5381.5	4903.2	4437.4	3964.7	3539.0
-57.5°	7181.8	6790.9	6421.0	6040.3	5650.6	5236.6	4814.2	4387.1	3976.0	3572.0	3187.3
-60°	6303.7	5974.4	5649.6	5323.1	4997.3	4642.0	4261.6	3886.7	3519.3	3183.6	2857.0
-62.5°	5449.5	5163.8	4895.5	4625.8	4345.5	4043.2	3718.0	3413.3	3106.7	2805.2	2540.6
-65°	4661.6	4424.3	4188.4	3966.8	3743.7	3517.3	3241.8	2972.3	2714.2	2465.7	2234.3
-67.5°	3943.0	3751.9	3564.4	3379.0	3193.8	3005.3	2778.8	2549.9	2338.0	2136.7	1940.0
-70°	3268.6	3115.1	2961.8	2808.1	2657.4	2509.8	2338.6	2158.1	1981.9	1810.7	1639.3
-72.5°	2630.2	2511.3	2392.5	2277.0	2160.0	2045.1	1912.8	1765.0	1618.6	1474.5	1335.3
-75°	2034.4	1946.9	1858.5	1772.4	1683.1	1591.0	1495.0	1384.9	1274.0	1162.9	1052.7
-77.5°	1491.4	1431.4	1370.0	1312.7	1253.8	1193.7	1125.6	1037.7	954.8	872.8	793.0
-80°	1015.9	978.6	940.6	906.9	870.8	832.5	788.5	726.0	664.0	606.6	554.6
-82.5°	617.1	598.6	578.7	559.4	538.2	515.1	489.3	452.9	417.1	382.1	347.9
-85°	307.2	299.8	291.7	283.3	274.3	264.5	253.8	238.4	222.4	205.9	188.9
-87.5°	112.4	110.0	107.4	105.5	103.4	101.2	98.7	93.0	87.3	81.7	76.1
-90°	3.8	3.8	3.8	4.3	4.7	5.2	5.6	5.6	5.6	5.6	5.6





REPORT NUMBER: P701503 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-CV1-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	14.5	14.1	13.6	13.1	13.1	13.1	13.1	13.1	12.7	12.2	11.8
87.5°	9.8	11.1	12.2	13.2	12.4	11.7	11.0	10.4	10.8	11.1	11.3
85°	18.4	19.0	19.8	20.7	19.5	17.8	16.4	15.2	15.5	15.6	15.5
82.5°	31.4	29.7	28.9	28.3	28.1	27.2	25.7	23.4	21.1	20.1	19.8
80°	55.7	49.8	44.6	40.1	37.6	36.8	35.8	33.3	28.2	24.8	22.9
77.5°	78.1	70.0	62.6	55.2	48.6	44.2	42.0	40.9	35.0	29.2	25.3
75°	98.5	87.9	77.9	68.2	58.7	50.9	45.6	42.1	37.5	33.0	27.5
72.5°	112.3	100.8	90.6	79.9	67.5	57.2	49.0	43.2	38.5	33.9	29.2
70°	121.8	110.7	99.0	86.8	74.6	62.9	52.6	45.5	39.5	34.7	29.9
67.5°	127.6	115.1	103.6	92.5	80.0	67.5	55.6	47.9	41.7	35.4	30.5
65°	114.8	110.7	106.0	94.2	83.1	71.7	59.1	50.6	43.8	37.3	31.1
62.5°	98.2	98.2	95.4	92.6	83.8	72.9	62.6	53.9	46.0	39.1	32.4
60°	77.7	81.2	84.0	83.3	80.3	72.9	63.8	56.9	48.5	40.8	33.9
57.5°	62.7	65.2	70.5	73.8	72.9	69.4	64.6	58.4	50.7	42.6	35.3
55°	51.3	55.7	60.1	63.9	65.6	63.6	64.2	59.4	52.5	44.2	37.0
52.5°	45.5	49.8	54.2	56.8	58.8	59.7	62.6	60.3	53.5	45.6	38.8
50°	43.7	48.3	51.6	53.7	53.8	58.3	62.0	60.7	54.5	46.7	40.9
47.5°	50.3	54.2	53.0	52.8	52.7	58.4	62.7	61.7	55.5	47.7	43.1
45°	74.8	68.6	61.6	56.4	56.5	62.5	64.8	63.6	57.5	50.4	45.5
42.5°	118.6	106.6	81.5	61.6	72.4	69.3	68.2	66.8	60.1	53.6	48.2
40°	240.0	168.0	116.1	107.6	99.4	78.4	75.8	71.0	63.6	57.5	51.2
37.5°	409.2	296.5	188.1	192.1	148.0	111.6	85.1	76.2	69.8	62.6	54.5
35°	702.7	494.7	392.0	348.9	250.7	152.4	95.7	83.6	77.3	68.0	58.0
32.5°	1065.5	869.2	767.3	587.7	379.1	200.8	125.2	97.4	85.6	73.6	61.8
30°	1678.8	1516.4	1230.0	880.8	560.3	319.9	177.0	113.4	94.9	79.5	65.8
27.5°	2603.7	2279.6	1793.4	1304.2	839.9	464.7	253.5	131.2	104.9	86.1	70.6
25°	3610.8	3144.6	2527.0	1807.7	1154.7	694.7	346.9	152.7	118.2	94.1	75.3
22.5°	4723.3	4038.6	3336.7	2358.1	1504.2	961.9	495.8	224.1	133.8	102.5	80.1
20°	5789.3	4948.7	4146.3	2790.1	1877.2	1272.6	703.2	304.1	150.1	111.0	84.8
17.5°	6824.6	5695.8	4584.0	3260.7	2243.1	1566.1	927.3	390.7	166.9	119.7	89.5
15°	7530.6	6194.9	4993.7	3680.9	2570.0	1842.1	1163.0	481.9	184.0	128.4	96.6
12.5°	8071.6	6647.1	5384.9	4051.1	2859.6	2100.5	1404.8	575.1	201.1	141.8	106.9
10°	8536.1	7051.4	5751.7	4371.9	3114.2	2341.3	1646.4	663.1	227.4	159.1	117.1
7.5°	8926.1	7407.1	6088.3	4644.2	3322.2	2500.1	1794.6	734.7	254.7	176.4	127.2
5°	9230.4	7670.5	6354.3	4829.8	3430.4	2571.6	1906.7	797.1	281.2	193.3	137.1
2.5°	9411.5	7813.7	6555.4	4967.8	3516.8	2624.2	1993.9	849.7	306.6	209.7	146.7
0°	9529.7	7906.1	6706.7	5062.4	3579.5	2659.8	2055.4	891.6	330.4	225.2	155.8
-2.5°	9574.7	7919.9	6728.5	5183.1	3707.0	2769.8	2115.2	1008.0	441.9	301.7	204.8
-5°	9549.8	7891.5	6706.1	5259.1	3807.7	2861.3	2152.7	1112.9	549.9	375.9	252.6
-7.5°	9251.3	7725.0	6590.3	5270.6	3880.4	2931.4	2172.2	1206.5	652.7	446.8	298.4
-10°	8852.8	7457.4	6349.7	5111.9	3872.6	2973.5	2182.5	1288.6	748.9	513.2	341.5
-12.5°	8410.8	7154.8	6088.5	4938.7	3837.6	2996.4	2211.2	1365.2	836.9	574.0	381.3
-15°	7932.3	6819.7	5813.9	4759.9	3788.8	3008.0	2226.7	1430.9	916.3	631.7	417.1
-17.5°	7461.6	6454.4	5532.5	4583.9	3729.4	3010.1	2231.1	1481.6	986.6	687.4	455.4
-20°	7205.8	6189.0	5256.0	4418.2	3662.1	3004.5	2226.2	1517.0	1046.8	736.4	494.5



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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°	6950.4	6015.1	5123.3	4300.6	3605.4	2992.7	2213.9	1536.5	1096.2	778.3	528.5
-25°	6682.0	5832.3	4994.7	4217.4	3567.4	2949.7	2207.8	1539.8	1134.1	812.7	557.1
-27.5°	6444.5	5647.6	4846.1	4102.0	3492.9	2904.3	2198.1	1576.3	1163.9	839.1	579.9
-30°	6222.0	5460.9	4688.7	3966.8	3391.5	2794.5	2169.1	1599.4	1190.6	861.7	596.6
-32.5°	5992.2	5256.3	4499.3	3834.8	3256.9	2670.0	2087.4	1606.4	1206.4	878.6	610.8
-35°	5724.2	5008.2	4278.1	3671.0	3105.9	2541.5	1996.1	1596.9	1211.1	887.0	619.9
-37.5°	5420.0	4717.8	4069.2	3486.5	2944.2	2403.4	1929.6	1549.7	1204.7	886.7	622.3
-40°	5083.5	4427.6	3829.6	3299.2	2780.1	2256.3	1850.4	1499.9	1193.6	877.6	618.0
-42.5°	4729.7	4144.3	3600.8	3100.5	2610.0	2153.8	1761.9	1440.7	1152.9	863.7	607.0
-45°	4398.9	3856.0	3363.6	2898.9	2439.9	2038.7	1685.5	1373.9	1101.8	843.0	591.9
-47.5°	4057.7	3577.5	3123.5	2685.8	2295.7	1918.4	1598.5	1307.5	1043.5	812.9	574.5
-50°	3735.8	3297.5	2881.9	2493.9	2131.2	1809.4	1504.5	1232.7	985.2	762.6	551.3
-52.5°	3433.0	3026.9	2653.4	2301.1	1985.4	1689.2	1410.0	1150.6	920.2	713.6	522.5
-55°	3132.2	2769.2	2430.3	2123.0	1836.6	1567.2	1306.4	1068.0	848.9	662.3	489.0
-57.5°	2842.8	2513.8	2225.7	1949.4	1684.3	1435.8	1199.9	978.2	779.6	606.1	456.7
-60°	2551.8	2285.3	2025.6	1769.1	1525.2	1300.0	1088.8	885.1	706.9	547.3	416.1
-62.5°	2288.1	2049.1	1814.2	1579.4	1363.2	1161.8	972.1	793.0	628.8	492.4	370.9
-65°	2018.0	1803.7	1592.7	1391.5	1199.2	1019.9	856.5	694.8	556.5	434.1	326.4
-67.5°	1744.5	1557.5	1378.4	1199.7	1036.5	882.2	734.7	603.3	483.0	372.8	288.0
-70°	1471.5	1309.8	1163.1	1018.9	876.4	742.0	625.0	512.6	406.1	322.9	247.7
-72.5°	1204.3	1078.1	957.3	836.2	722.4	615.0	514.4	422.4	343.5	271.2	205.7
-75°	946.2	851.6	760.6	668.1	573.2	485.2	413.9	346.0	279.0	217.7	169.2
-77.5°	716.7	641.8	568.8	504.4	439.1	377.8	321.0	267.4	215.9	172.5	134.0
-80°	504.9	456.3	409.0	362.3	313.5	268.3	232.4	197.4	160.4	127.2	97.8
-82.5°	314.0	286.4	260.5	234.5	206.5	179.6	154.0	129.5	103.8	80.9	67.3
-85°	172.4	155.7	139.1	122.6	105.8	90.0	82.3	74.8	65.6	57.0	48.9
-87.5°	71.9	67.8	63.6	59.4	55.5	51.6	47.8	44.0	39.2	34.7	30.4
-90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.1	6.6	7.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	11.3	10.8	10.4	9.9	9.4	8.5	7.5
87.5°	11.4	10.8	10.4	10.1	10.1	8.7	7.5
85°	15.2	13.6	12.3	11.4	10.7	9.0	7.5
82.5°	19.1	16.4	14.3	12.6	11.3	9.3	7.5
80°	22.5	19.2	16.2	13.8	12.0	9.6	7.5
77.5°	23.3	21.1	18.0	14.9	12.6	9.8	7.5
75°	24.1	21.5	19.5	16.1	13.2	10.1	7.5
72.5°	24.8	21.8	19.6	17.2	13.8	10.4	7.5
70°	25.4	22.1	19.6	18.0	14.3	10.6	7.5
67.5°	26.2	22.2	19.6	17.9	14.9	10.9	7.5
65°	26.9	22.7	19.5	17.7	15.4	11.1	7.5
62.5°	27.7	23.4	19.3	17.5	15.9	11.3	7.5
60°	28.4	24.2	19.2	17.2	16.4	11.5	7.5
57.5°	29.9	24.9	19.8	17.0	16.2	11.7	7.5
55°	31.4	25.7	20.4	16.7	16.1	11.9	7.5
52.5°	32.8	26.5	21.1	16.3	16.0	12.1	7.5
50°	34.2	27.7	21.7	16.0	15.9	12.3	7.5
47.5°	35.7	28.8	22.3	15.8	15.8	12.5	7.5
45°	37.8	29.9	22.9	16.2	15.7	12.6	7.5
42.5°	40.0	31.0	23.5	16.7	15.6	12.7	7.5
40°	42.3	32.0	24.1	17.3	15.6	12.9	7.5
37.5°	44.6	33.0	24.9	18.2	15.6	13.0	7.5
35°	47.1	34.5	25.6	19.1	15.6	13.1	7.5
32.5°	49.6	36.4	26.2	20.1	15.6	13.2	7.5
30°	52.6	38.2	26.8	21.0	15.7	13.2	7.5
27.5°	55.5	40.0	28.8	22.0	15.8	13.3	7.5
25°	58.5	41.8	30.9	23.0	15.8	13.3	7.5
22.5°	61.5	44.4	33.2	24.0	15.9	13.4	7.5
20°	64.5	49.1	35.6	25.0	16.0	13.4	7.5
17.5°	70.0	54.0	38.0	26.0	16.1	13.4	7.5
15°	77.1	58.9	40.5	27.0	16.2	13.4	7.5
12.5°	84.1	63.8	43.0	27.9	16.4	13.4	7.5
10°	91.0	68.6	45.4	28.8	16.5	13.3	7.5
7.5°	97.7	73.3	47.8	29.7	16.6	13.3	7.5
5°	104.2	77.9	50.1	30.5	16.7	13.2	7.5
2.5°	110.4	82.2	52.3	31.2	16.8	13.2	7.5
0°	116.4	86.3	54.4	31.9	16.9	13.1	7.5
-2.5°	145.6	103.2	63.2	35.8	18.2	13.3	7.5
-5°	174.0	119.6	71.8	39.6	19.5	13.6	7.5
-7.5°	201.4	135.2	80.0	43.2	20.7	13.8	7.5
-10°	227.3	150.0	87.7	46.6	21.9	14.0	7.5
-12.5°	251.5	163.6	94.8	49.7	23.0	14.2	7.5
-15°	273.5	176.0	101.3	52.6	24.1	14.3	7.5
-17.5°	293.0	186.9	107.1	55.2	25.1	14.5	7.5
-20°	314.4	196.1	112.0	57.3	25.9	14.6	7.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	340.0	203.6	116.0	59.1	26.7	14.7	7.5
-25°	361.7	215.1	119.0	60.5	27.4	14.8	7.5
-27.5°	379.4	226.7	121.0	61.5	28.0	14.8	7.5
-30°	392.8	235.7	122.4	62.0	28.4	14.9	7.5
-32.5°	401.8	242.0	127.0	62.0	28.7	14.9	7.5
-35°	408.2	245.6	130.0	61.5	28.9	14.8	7.5
-37.5°	411.2	247.2	131.4	60.5	28.9	14.8	7.5
-40°	410.0	248.1	131.1	59.0	28.8	14.7	7.5
-42.5°	404.5	246.4	130.4	57.6	28.5	14.6	7.5
-45°	394.7	241.8	129.6	56.9	28.1	14.5	7.5
-47.5°	380.6	234.6	127.4	55.4	27.6	14.3	7.5
-50°	366.7	224.8	123.8	55.0	26.9	14.1	7.5
-52.5°	349.7	212.3	118.8	54.4	26.1	13.9	7.5
-55°	329.0	201.8	112.5	53.2	25.2	13.7	7.5
-57.5°	304.7	190.1	104.9	51.4	24.1	13.4	7.5
-60°	278.0	176.4	96.3	49.1	22.9	13.2	7.5
-62.5°	255.7	160.9	90.3	46.2	22.0	12.9	7.5
-65°	230.9	143.7	83.3	42.8	21.1	12.5	7.5
-67.5°	203.9	127.7	75.5	38.9	20.2	12.2	7.5
-70°	174.6	113.2	66.8	34.6	19.1	11.8	7.5
-72.5°	150.2	97.6	57.4	31.7	18.1	11.4	7.5
-75°	125.3	80.9	47.4	29.0	16.9	11.0	7.5
-77.5°	99.1	63.4	41.0	26.1	15.7	10.6	7.5
-80°	71.9	50.9	35.2	23.0	14.5	10.2	7.5
-82.5°	55.9	41.2	29.2	19.8	13.3	9.8	7.5
-85°	41.3	31.2	23.0	16.6	12.0	9.3	7.5
-87.5°	26.3	21.1	16.7	13.2	10.7	8.9	7.5
-90°	7.5	8.0	8.5	8.9	9.4	8.5	7.5

(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

