

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: P731422 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-7F-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731422 (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: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-7F-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

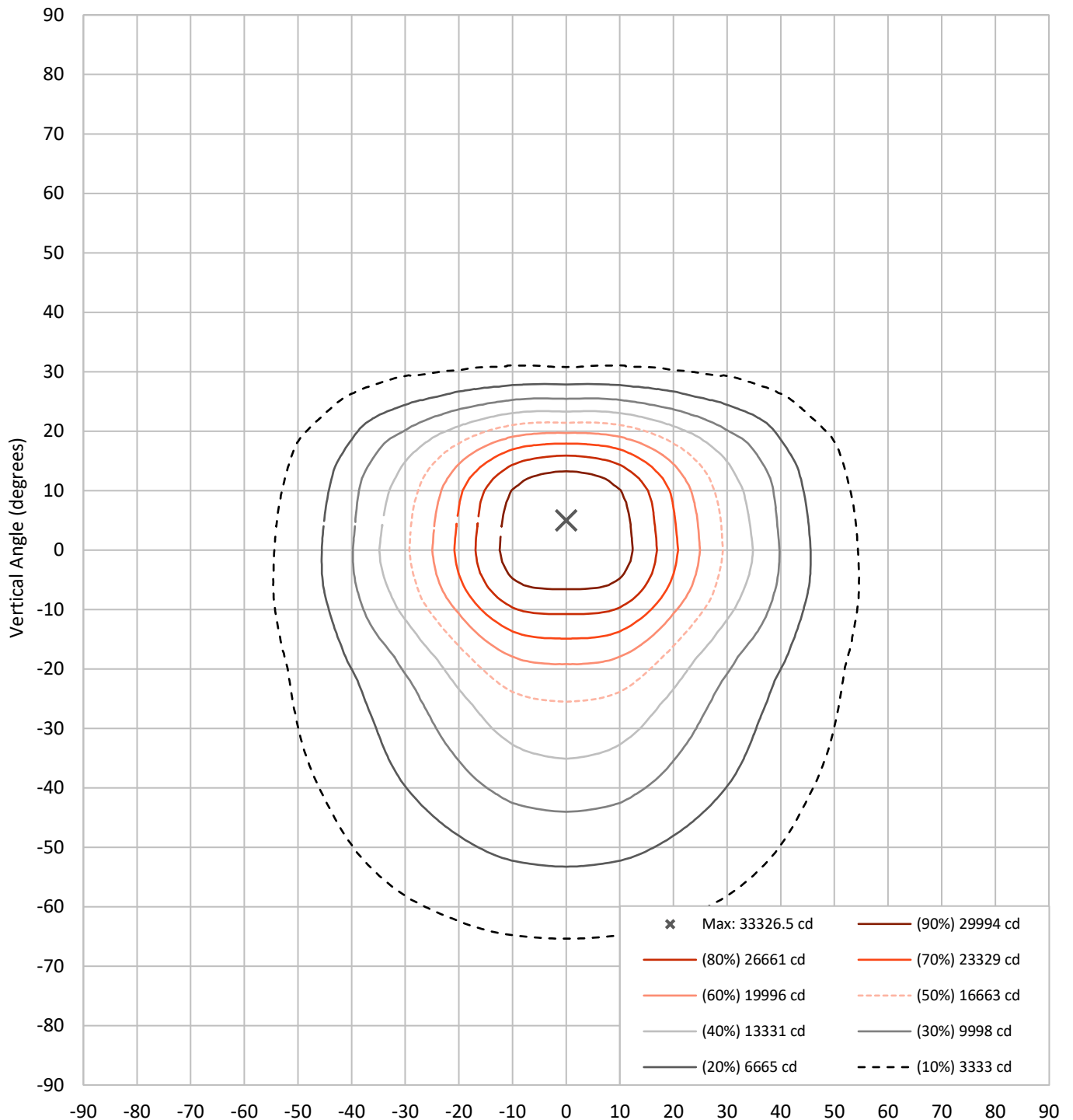
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	32654.4 lumens	Max Intensity:	33326.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	94.4 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:	15706.1 lumens	Field Lumens:	30271.6 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

Input Watts (W): 345.8  
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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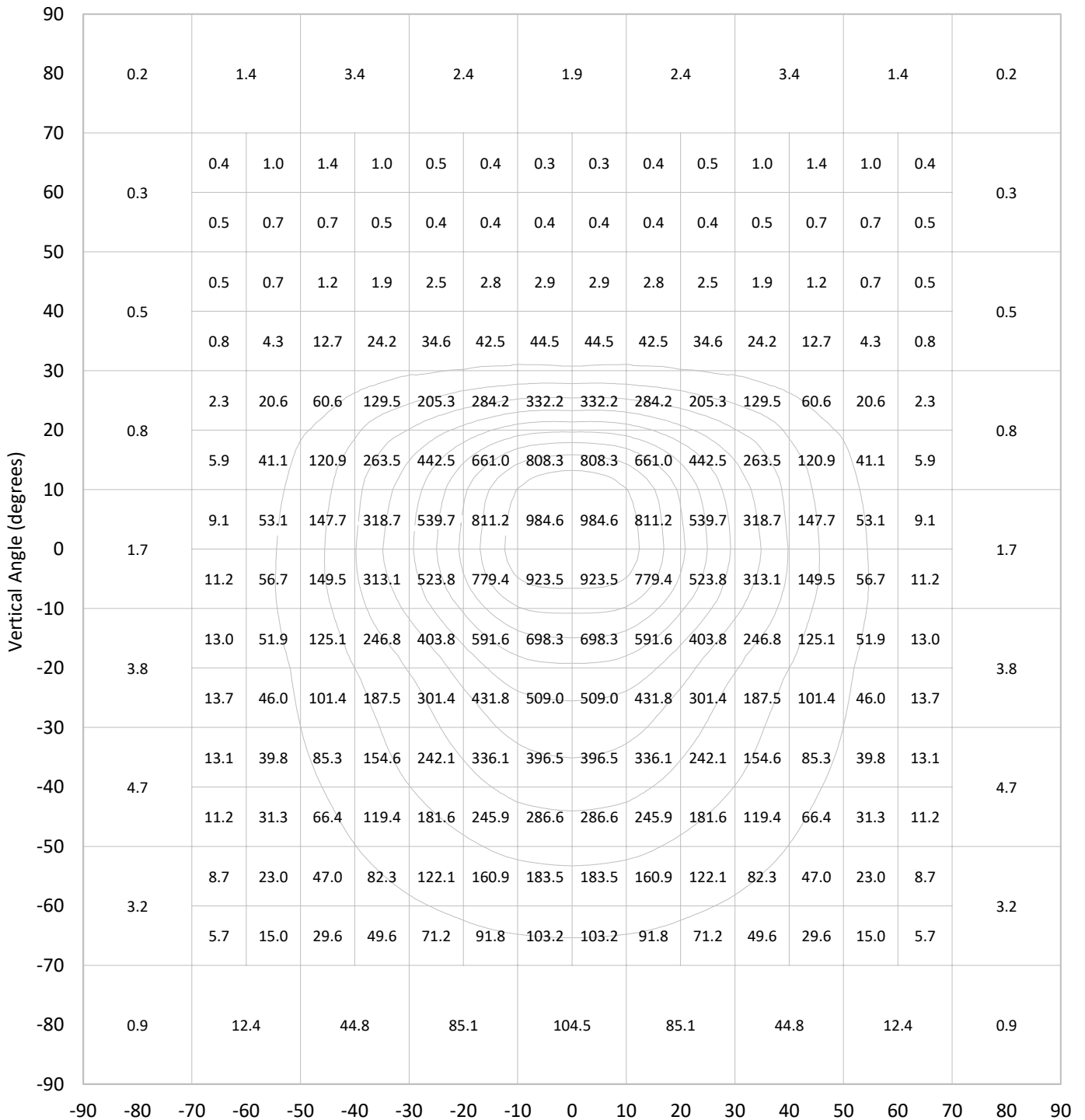
### Iso-Candela Plot





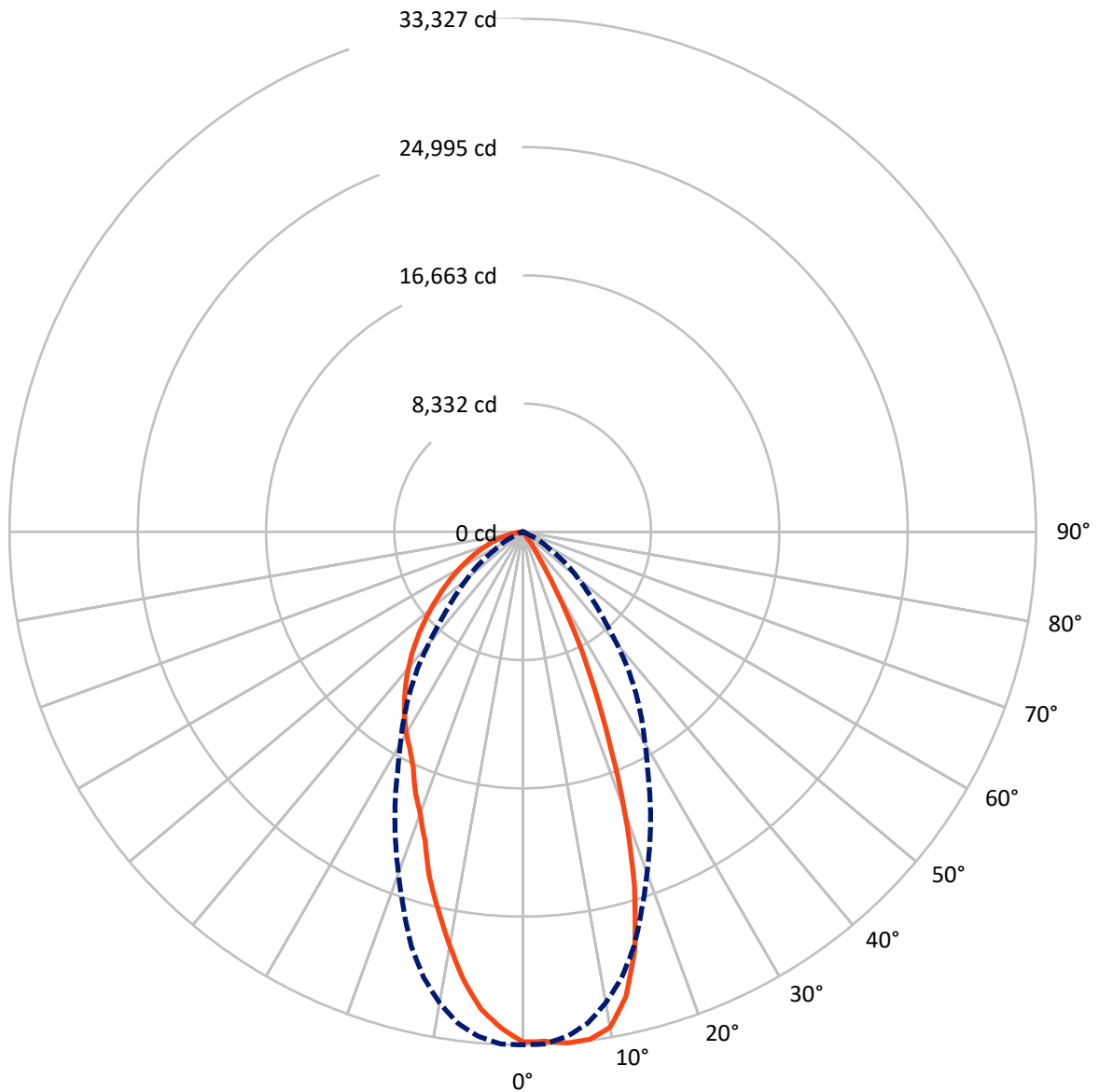
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### Lumen Table



REPORT NUMBER: P731422 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV1

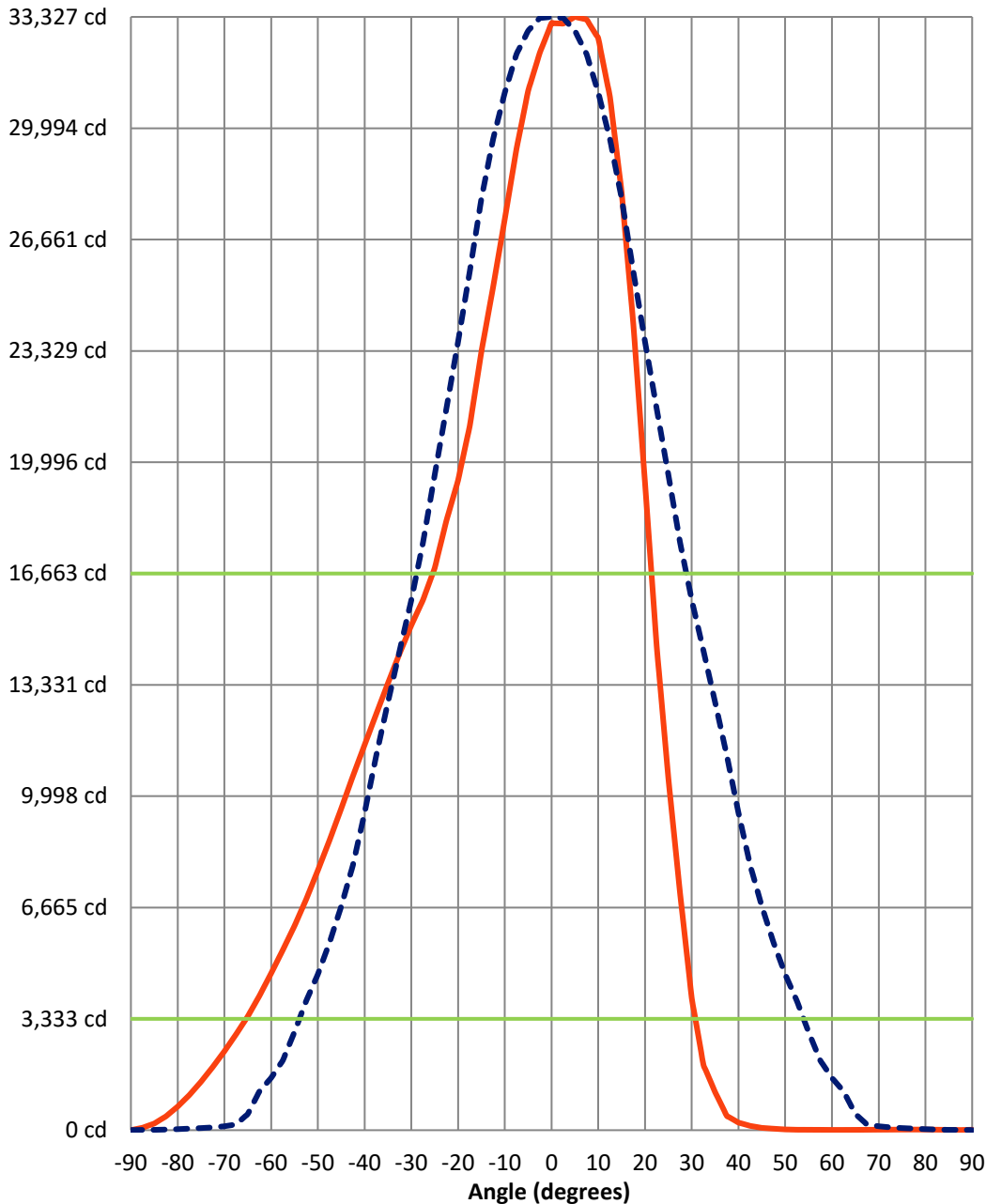
### Luminous Intensity Polar Plot



— 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: 15706.1  
 Efficiency: 48.1%

**Field:**  
 H Angle: 107.9°  
 V Angle: 96.1°  
 Lumens: 30271.6  
 Efficiency: 92.7%

**Spill:**  
 Lumens: 2382.8  
 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°	4.6	5.2	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0
87.5°	4.6	5.3	6.1	6.2	6.3	6.6	7.0	6.9	6.7	6.6	6.3
85°	4.6	5.5	6.5	6.9	7.5	8.3	9.3	9.5	9.5	9.4	9.3
82.5°	4.6	5.7	6.9	7.7	8.7	10.0	11.6	12.0	12.2	12.9	14.2
80°	4.6	5.8	7.3	8.4	9.9	11.7	13.7	13.9	15.1	17.2	20.2
77.5°	4.6	6.0	7.7	9.1	11.0	12.9	14.2	15.4	17.7	21.3	24.9
75°	4.6	6.2	8.0	9.8	11.9	13.1	14.7	16.8	20.0	22.8	25.6
72.5°	4.6	6.3	8.4	10.5	11.9	13.3	15.1	17.8	20.6	23.4	26.3
70°	4.6	6.5	8.7	11.0	11.9	13.4	15.5	18.2	21.1	24.0	27.7
67.5°	4.6	6.6	9.1	10.9	11.9	13.5	15.9	18.6	21.6	25.4	29.2
65°	4.6	6.8	9.4	10.8	11.8	13.8	16.4	19.0	22.7	26.7	30.8
62.5°	4.6	6.9	9.7	10.6	11.8	14.3	16.9	19.7	23.8	28.0	32.8
60°	4.6	7.0	10.0	10.5	11.6	14.7	17.3	20.6	24.8	29.5	34.6
57.5°	4.6	7.2	9.9	10.3	12.0	15.2	18.2	21.5	25.9	30.8	35.6
55°	4.6	7.3	9.8	10.1	12.4	15.6	19.1	22.5	26.9	31.9	36.1
52.5°	4.6	7.4	9.7	9.9	12.8	16.1	20.0	23.6	27.7	32.5	36.7
50°	4.6	7.5	9.7	9.7	13.2	16.9	20.8	24.9	28.4	33.2	36.9
47.5°	4.6	7.6	9.6	9.6	13.6	17.6	21.7	26.2	29.0	33.8	37.5
45°	4.6	7.7	9.6	9.9	13.9	18.2	23.0	27.7	30.7	35.0	38.7
42.5°	4.6	7.8	9.5	10.1	14.3	18.9	24.3	29.3	32.6	36.6	40.6
40°	4.6	7.9	9.5	10.5	14.7	19.5	25.7	31.2	35.0	38.7	43.2
37.5°	4.6	7.9	9.5	11.1	15.1	20.1	27.1	33.2	38.1	42.5	46.3
35°	4.6	8.0	9.5	11.6	15.6	21.0	28.6	35.3	41.4	47.0	50.8
32.5°	4.6	8.0	9.5	12.2	16.0	22.1	30.2	37.6	44.8	52.1	59.3
30°	4.6	8.1	9.6	12.8	16.3	23.2	32.0	40.0	48.3	57.7	69.0
27.5°	4.6	8.1	9.6	13.4	17.5	24.3	33.8	42.9	52.4	63.8	79.8
25°	4.6	8.1	9.6	14.0	18.8	25.4	35.6	45.8	57.3	71.9	92.9
22.5°	4.6	8.2	9.7	14.6	20.2	27.0	37.4	48.7	62.3	81.4	136.4
20°	4.6	8.2	9.8	15.2	21.7	29.9	39.2	51.6	67.5	91.3	185.0
17.5°	4.6	8.2	9.8	15.8	23.1	32.8	42.6	54.4	72.8	101.6	237.7
15°	4.6	8.2	9.9	16.4	24.6	35.8	46.9	58.7	78.1	112.0	293.2
12.5°	4.6	8.2	10.0	17.0	26.1	38.8	51.1	65.0	86.3	122.3	349.9
10°	4.6	8.1	10.0	17.5	27.6	41.7	55.3	71.2	96.8	138.4	403.5
7.5°	4.6	8.1	10.1	18.1	29.1	44.6	59.4	77.4	107.3	155.0	447.0
5°	4.6	8.1	10.2	18.6	30.5	47.4	63.4	83.4	117.7	171.1	485.0
2.5°	4.6	8.0	10.2	19.0	31.8	50.0	67.2	89.2	127.6	186.5	517.0
0°	4.6	8.0	10.3	19.4	33.1	52.5	70.8	94.8	137.1	201.0	542.5
-2.5°	4.6	8.1	11.1	21.8	38.5	62.8	88.6	124.6	183.6	268.9	613.3
-5°	4.6	8.3	11.9	24.1	43.7	72.7	105.9	153.7	228.8	334.6	677.2
-7.5°	4.6	8.4	12.6	26.3	48.7	82.3	122.6	181.5	271.9	397.2	734.1
-10°	4.6	8.5	13.4	28.3	53.4	91.2	138.3	207.8	312.3	455.7	784.1
-12.5°	4.6	8.6	14.0	30.3	57.7	99.5	153.0	232.0	349.3	509.3	830.8
-15°	4.6	8.7	14.7	32.0	61.7	107.0	166.4	253.8	384.4	557.6	870.7
-17.5°	4.6	8.8	15.3	33.6	65.1	113.7	178.3	277.1	418.2	600.4	901.6
-20°	4.6	8.9	15.8	34.9	68.1	119.3	191.3	300.9	448.1	637.0	923.1



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.6	9.0	16.3	36.0	70.6	123.9	206.9	321.6	473.6	667.1	935.0
-25°	4.6	9.0	16.7	36.8	72.4	130.9	220.1	339.0	494.5	690.1	937.0
-27.5°	4.6	9.0	17.0	37.4	73.6	137.9	230.9	352.9	510.6	708.3	959.2
-30°	4.6	9.1	17.3	37.7	74.5	143.4	239.0	363.0	524.3	724.5	973.3
-32.5°	4.6	9.1	17.5	37.7	77.3	147.3	244.5	371.7	534.6	734.1	977.5
-35°	4.6	9.0	17.6	37.4	79.1	149.4	248.4	377.2	539.7	737.0	971.8
-37.5°	4.6	9.0	17.6	36.8	80.0	150.4	250.2	378.6	539.5	733.1	943.1
-40°	4.6	9.0	17.5	35.9	79.8	151.0	249.5	376.0	534.0	726.3	912.7
-42.5°	4.6	8.9	17.4	35.1	79.4	149.9	246.1	369.3	525.5	701.6	876.7
-45°	4.6	8.8	17.1	34.7	78.9	147.2	240.2	360.2	512.9	670.4	836.1
-47.5°	4.6	8.7	16.8	33.8	77.5	142.8	231.6	349.6	494.6	634.9	795.6
-50°	4.6	8.6	16.4	33.5	75.4	136.8	223.1	335.5	464.0	599.5	750.1
-52.5°	4.6	8.5	15.9	33.1	72.3	129.2	212.8	317.9	434.2	559.9	700.1
-55°	4.6	8.3	15.3	32.4	68.5	122.8	200.2	297.6	403.0	516.6	649.9
-57.5°	4.6	8.2	14.6	31.3	63.9	115.7	185.4	277.9	368.8	474.4	595.2
-60°	4.6	8.0	13.9	29.9	58.6	107.3	169.1	253.2	333.0	430.2	538.6
-62.5°	4.6	7.8	13.4	28.1	54.9	97.9	155.6	225.7	299.6	382.7	482.5
-65°	4.6	7.6	12.8	26.0	50.7	87.4	140.5	198.6	264.2	338.6	422.8
-67.5°	4.6	7.4	12.2	23.7	45.9	77.7	124.0	175.2	226.8	293.9	367.1
-70°	4.6	7.2	11.6	21.0	40.6	68.9	106.3	150.7	196.4	247.1	311.9
-72.5°	4.6	7.0	11.0	19.3	34.9	59.4	91.4	125.2	165.0	209.0	257.0
-75°	4.6	6.7	10.3	17.6	28.8	49.2	76.3	103.0	132.5	169.8	210.6
-77.5°	4.6	6.5	9.6	15.8	24.9	38.6	60.3	81.5	105.0	131.4	162.7
-80°	4.6	6.2	8.8	14.0	21.4	31.0	43.7	59.5	77.4	97.6	120.2
-82.5°	4.6	6.0	8.1	12.0	17.7	25.1	34.0	40.9	49.2	63.1	78.8
-85°	4.6	5.7	7.3	10.1	14.0	19.0	25.1	29.8	34.7	39.9	45.5
-87.5°	4.6	5.4	6.5	8.0	10.2	12.8	16.0	18.5	21.1	23.9	26.8
-90°	4.6	5.2	5.7	5.4	5.2	4.9	4.6	4.3	4.0	3.7	3.4





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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	8.0	8.0	8.0	8.0	8.3	8.6	8.8	9.1	9.7	10.3	10.8
87.5°	6.7	7.1	7.5	8.0	7.4	6.7	5.9	5.0	5.3	5.6	5.9
85°	10.0	10.8	11.8	12.6	12.0	11.5	11.2	10.9	11.6	12.1	12.5
82.5°	15.6	16.6	17.1	17.2	17.6	18.1	19.1	21.1	22.5	23.3	23.8
80°	21.7	22.4	22.9	24.4	27.1	30.3	33.9	37.8	39.1	39.2	38.7
77.5°	25.5	26.9	29.6	33.5	38.0	42.6	47.5	53.0	54.5	54.1	53.0
75°	27.7	31.0	35.7	41.4	47.4	53.5	60.0	66.1	67.8	65.9	63.3
72.5°	29.8	34.8	41.1	48.6	55.1	61.3	68.3	76.0	78.7	74.8	70.2
70°	32.0	38.3	45.4	52.8	60.2	67.3	74.1	81.5	85.8	79.8	70.5
67.5°	33.8	41.1	48.6	56.2	63.0	70.0	77.7	80.8	82.7	72.9	62.5
65°	35.9	43.6	50.5	57.3	64.5	67.4	69.9	72.5	72.1	60.9	49.8
62.5°	38.0	44.3	51.0	56.3	58.0	59.7	59.8	58.1	55.4	47.6	38.0
60°	38.8	44.3	48.8	50.6	51.1	49.4	47.3	45.1	41.8	35.3	28.7
57.5°	39.3	42.2	44.3	44.8	42.9	39.7	38.2	34.7	31.9	28.1	22.8
55°	39.1	38.7	39.9	38.9	36.6	33.9	31.2	29.0	25.5	24.3	21.9
52.5°	38.0	36.3	35.8	34.6	33.0	30.3	27.7	25.9	25.0	23.6	21.6
50°	37.7	35.4	32.7	32.6	31.4	29.4	26.6	26.2	26.3	25.0	22.7
47.5°	38.2	35.5	32.1	32.1	32.3	33.0	30.6	29.5	29.9	33.3	29.7
45°	39.4	38.0	34.4	34.3	37.5	41.7	45.5	35.0	45.6	50.9	55.1
42.5°	41.5	42.2	44.0	37.5	49.6	64.8	72.2	75.9	72.0	88.6	105.9
40°	46.1	47.7	60.5	65.5	70.6	102.2	146.0	156.3	118.7	165.1	193.8
37.5°	51.8	67.9	90.1	116.8	114.4	180.4	249.0	301.6	296.4	280.3	401.4
35°	58.2	92.8	152.6	212.3	238.5	301.0	427.6	519.2	573.8	606.6	706.4
32.5°	76.2	122.2	230.7	357.6	466.9	528.9	648.3	849.3	1039.4	1152.8	1151.8
30°	107.7	194.7	341.0	536.0	748.5	922.7	1021.5	1279.7	1642.0	1899.7	2071.4
27.5°	154.2	282.8	511.1	793.6	1091.3	1387.1	1584.4	1919.8	2407.3	2800.0	3166.8
25°	211.1	422.8	702.6	1100.0	1537.7	1913.5	2197.2	2663.5	3281.2	3897.1	4510.8
22.5°	301.7	585.3	915.3	1434.9	2030.4	2457.5	2874.2	3442.5	4157.0	5021.6	5957.3
20°	427.9	774.4	1142.3	1697.8	2523.1	3011.3	3522.8	4201.1	5034.4	6085.3	7334.6
17.5°	564.3	953.0	1364.9	1984.1	2789.4	3465.9	4152.7	4925.8	5859.7	7078.8	8424.5
15°	707.7	1120.9	1563.8	2239.9	3038.7	3769.6	4582.3	5587.8	6689.0	8007.4	9415.1
12.5°	854.8	1278.2	1740.1	2465.1	3276.7	4044.8	4911.5	5957.2	7238.3	8784.8	10262.6
10°	1001.9	1424.7	1895.0	2660.3	3499.9	4290.8	5194.2	6264.1	7567.5	9116.9	10714.3
7.5°	1092.0	1521.3	2021.6	2826.0	3704.7	4507.2	5431.5	6510.7	7795.5	9354.4	11000.6
5°	1160.2	1564.8	2087.4	2938.9	3866.6	4667.5	5616.7	6699.6	7932.8	9499.1	11218.1
2.5°	1213.3	1596.8	2140.0	3022.9	3989.0	4754.6	5726.9	6820.6	8075.9	9679.0	11437.7
0°	1250.7	1618.5	2178.1	3080.5	4081.0	4810.9	5798.8	6893.1	8175.7	9835.3	11633.1
-2.5°	1287.1	1685.4	2255.7	3153.9	4094.3	4819.3	5826.2	6896.0	8175.7	9805.0	11552.1
-5°	1309.9	1741.1	2316.9	3200.2	4080.7	4802.0	5811.1	6854.6	8086.6	9627.2	11251.9
-7.5°	1321.7	1783.7	2361.2	3207.2	4010.2	4700.7	5629.5	6610.4	7792.5	9236.2	10734.2
-10°	1328.0	1809.4	2356.5	3110.6	3863.8	4537.8	5387.0	6326.7	7440.3	8782.7	10168.7
-12.5°	1345.5	1823.3	2335.2	3005.2	3704.9	4353.7	5118.0	6007.9	7031.6	8275.6	9547.3
-15°	1354.9	1830.3	2305.5	2896.4	3537.8	4149.8	4826.8	5657.1	6589.0	7701.8	8830.1
-17.5°	1357.6	1831.6	2269.4	2789.3	3366.6	3927.5	4540.3	5356.4	6205.0	7165.9	8128.1
-20°	1354.6	1828.2	2228.4	2688.5	3198.3	3766.0	4384.7	5096.6	5856.2	6668.8	7470.4



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1347.1	1821.0	2193.9	2617.0	3117.5	3660.2	4229.3	4845.3	5499.0	6204.5	7017.6
-25°	1343.4	1794.9	2170.7	2566.3	3039.3	3548.9	4066.0	4613.2	5183.1	5922.0	6697.4
-27.5°	1337.5	1767.2	2125.4	2496.1	2948.8	3436.5	3921.5	4421.0	5006.0	5669.9	6389.5
-30°	1319.9	1700.4	2063.7	2413.8	2853.1	3322.9	3786.0	4260.9	4814.5	5440.3	6107.9
-32.5°	1270.2	1624.6	1981.8	2333.4	2737.8	3198.4	3646.2	4106.7	4620.2	5181.0	5823.2
-35°	1214.6	1546.5	1889.9	2233.8	2603.2	3047.5	3483.1	3928.2	4404.9	4931.0	5529.8
-37.5°	1174.2	1462.5	1791.5	2121.5	2476.1	2870.8	3298.0	3726.4	4177.7	4679.1	5245.4
-40°	1126.0	1372.9	1691.7	2007.6	2330.3	2694.2	3093.3	3504.5	3928.2	4428.2	4947.1
-42.5°	1072.1	1310.6	1588.2	1886.7	2191.1	2521.8	2878.0	3269.2	3694.3	4159.5	4646.8
-45°	1025.6	1240.6	1484.7	1764.0	2046.8	2346.4	2676.7	3026.5	3446.4	3879.2	4331.7
-47.5°	972.7	1167.4	1396.9	1634.3	1900.7	2177.0	2469.1	2809.8	3182.8	3588.1	4003.2
-50°	915.5	1101.1	1296.8	1517.5	1753.6	2006.6	2273.3	2584.1	2924.6	3286.6	3668.6
-52.5°	858.0	1027.9	1208.1	1400.2	1614.6	1841.9	2089.0	2365.8	2667.2	2984.5	3321.5
-55°	794.9	953.6	1117.6	1291.9	1478.8	1685.0	1905.9	2153.5	2412.6	2700.2	2983.7
-57.5°	730.2	873.7	1024.9	1186.2	1354.3	1529.7	1729.9	1939.5	2173.6	2419.5	2669.6
-60°	662.5	791.1	928.1	1076.5	1232.6	1390.6	1552.8	1738.5	1937.2	2141.5	2365.1
-62.5°	591.5	707.0	829.5	961.0	1103.9	1246.9	1392.3	1546.0	1707.0	1890.4	2077.0
-65°	521.2	620.6	729.7	846.7	969.1	1097.5	1227.9	1359.6	1500.4	1651.6	1808.6
-67.5°	447.1	536.9	630.7	730.1	838.7	947.7	1061.5	1180.5	1300.2	1422.7	1551.7
-70°	380.3	451.5	533.3	620.0	707.8	797.1	895.4	997.5	1101.8	1206.0	1313.2
-72.5°	313.0	374.2	439.6	508.8	582.5	656.0	732.8	812.5	897.2	984.9	1074.0
-75°	251.8	295.2	348.8	406.5	462.8	518.1	575.7	640.5	707.6	775.3	842.7
-77.5°	195.4	229.9	267.2	306.9	346.1	390.5	436.1	482.5	531.1	581.0	631.5
-80°	141.4	163.3	190.8	220.4	248.8	277.6	307.2	337.5	369.1	404.1	441.8
-82.5°	93.7	109.3	125.6	142.7	158.5	174.2	191.0	211.6	232.5	253.8	275.6
-85°	50.1	54.7	64.4	74.6	84.6	94.7	104.9	114.9	125.3	135.3	145.1
-87.5°	29.1	31.4	33.8	36.1	38.7	41.2	43.8	46.3	49.7	53.1	56.6
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.4	13.7	14.0	14.3
87.5°	6.3	5.8	5.4	4.9	4.4	5.7	7.1	8.6	10.0	9.3	8.5
85°	12.7	12.8	12.8	12.9	12.9	14.4	15.9	17.4	18.8	17.3	15.8
82.5°	23.9	23.5	22.7	21.5	19.9	19.5	19.0	18.3	17.4	16.6	16.0
80°	37.9	36.0	33.5	30.6	27.2	25.6	24.0	22.2	20.3	19.7	19.3
77.5°	51.0	47.4	43.2	38.7	33.8	30.8	28.1	25.1	22.0	21.1	20.5
75°	60.2	55.7	49.7	43.2	36.5	31.7	28.0	24.3	20.6	19.7	19.5
72.5°	65.0	58.7	51.1	42.1	33.5	27.8	24.3	21.1	18.3	17.3	16.9
70°	61.1	51.7	42.8	34.5	26.9	21.8	19.3	17.1	15.2	14.7	14.9
67.5°	51.6	42.1	34.1	26.9	20.8	16.7	15.2	14.1	13.2	12.9	12.9
65°	40.3	32.3	25.8	20.4	16.0	13.4	13.0	12.5	12.0	11.6	11.2
62.5°	29.7	23.6	19.5	16.4	14.1	12.6	12.2	11.7	11.1	10.5	10.1
60°	23.1	18.3	16.3	15.0	13.8	12.8	12.4	12.1	11.9	11.8	11.4
57.5°	20.1	17.7	15.8	15.0	14.4	13.9	13.6	13.4	13.0	12.6	12.1
55°	19.6	17.8	16.1	15.7	15.4	15.0	14.6	14.2	13.8	13.3	13.1
52.5°	19.7	18.8	17.6	17.0	17.3	16.8	15.9	16.4	16.4	16.0	15.7
50°	22.2	22.4	22.7	20.8	22.8	23.6	22.4	23.4	24.8	25.0	24.9
47.5°	31.5	33.6	36.4	34.2	36.8	40.6	40.2	40.5	43.9	44.3	44.2
45°	50.3	59.4	63.7	66.2	65.2	74.1	75.8	72.9	77.6	78.5	77.1
42.5°	100.7	105.8	117.1	126.1	121.0	130.1	132.8	124.6	132.6	136.2	132.3
40°	225.5	179.3	212.9	236.1	228.0	210.3	241.1	230.0	229.0	241.8	231.7
37.5°	445.3	395.3	429.7	495.9	493.5	410.1	503.1	497.1	417.8	511.7	503.6
35°	798.6	891.1	849.8	973.6	1009.5	1028.1	1079.7	1133.0	1074.7	1151.5	1149.5
32.5°	1429.9	1621.8	1706.6	1721.7	1880.5	2010.0	1955.2	2163.0	2150.3	2202.2	2255.3
30°	2257.3	2685.1	2901.6	2907.0	3170.6	3402.7	3476.3	3737.0	3891.1	3865.5	4123.8
27.5°	3601.6	4021.8	4378.3	4682.6	4888.0	5254.0	5763.2	6020.1	6398.9	6547.5	6904.4
25°	5120.4	5642.5	6205.4	6734.9	7169.7	7825.1	8458.9	8858.5	9400.5	9825.2	10256.9
22.5°	6765.8	7458.5	8180.7	8972.7	9781.4	10580.9	11350.8	12089.1	12811.7	13609.9	14097.8
20°	8448.1	9231.0	10110.1	11183.5	12305.4	13269.5	14321.0	15478.8	16585.7	17615.9	18394.0
17.5°	9726.4	10938.0	11890.3	13051.5	14444.7	15803.0	17143.5	18670.3	20078.5	21392.0	22563.4
15°	10702.7	11972.7	13353.0	14754.6	16222.3	17839.5	19683.5	21354.2	23093.7	24638.5	26085.2
12.5°	11553.6	12842.9	14287.5	15922.1	17773.4	19509.7	21442.2	23531.6	25377.1	27191.9	28549.4
10°	12181.6	13613.8	15078.3	16721.9	18609.7	20636.9	22731.2	24843.2	26912.5	28664.4	30122.8
7.5°	12528.0	14049.1	15581.4	17297.7	19238.5	21232.5	23324.7	25529.8	27612.7	29416.9	30756.2
5°	12810.0	14356.4	15871.0	17594.2	19616.3	21597.1	23601.4	25705.9	27886.9	29666.4	31059.8
2.5°	13056.2	14565.0	16042.4	17720.1	19804.0	21793.6	23854.4	26036.0	28145.0	29861.6	31218.0
0°	13269.8	14694.1	16139.0	17802.0	19981.3	21994.9	24022.3	26157.0	28305.5	29977.6	31350.5
-2.5°	13115.3	14511.8	15935.5	17635.4	19713.7	21694.5	23733.3	25895.1	27930.1	29623.8	30954.9
-5°	12712.3	14057.5	15471.2	17167.0	19150.8	21091.0	23102.7	25185.0	27097.9	28791.2	30015.5
-7.5°	12123.1	13440.0	14848.2	16517.4	18363.5	20124.4	21922.2	23852.4	25756.4	27251.5	28417.6
-10°	11468.1	12721.5	14017.6	15485.7	17120.3	18765.0	20417.0	22211.3	23888.9	25292.7	26415.4
-12.5°	10690.5	11803.9	12997.3	14277.7	15778.4	17344.9	18920.3	20491.9	22039.2	23302.0	24319.0
-15°	9850.6	10835.2	11925.2	13163.7	14500.8	15883.1	17304.1	18805.0	20198.5	21374.8	22271.5
-17.5°	9022.1	9903.8	11011.6	12137.6	13218.2	14485.8	15899.0	17140.2	18411.9	19468.1	20260.2
-20°	8319.7	9268.3	10231.5	11193.6	12225.8	13458.3	14656.5	15826.6	16956.7	17918.5	18706.1



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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°	7861.9	8695.2	9517.2	10427.2	11476.6	12564.1	13648.6	14712.5	15735.3	16648.9	17398.0
-25°	7445.5	8150.7	8964.7	9888.7	10774.7	11728.7	12752.7	13641.8	14612.0	15439.4	16080.3
-27.5°	7081.5	7779.4	8578.2	9409.3	10210.7	11070.5	12003.2	12851.9	13724.9	14520.5	15079.7
-30°	6764.6	7487.6	8238.8	8999.0	9753.8	10549.3	11359.9	12180.2	12981.2	13702.6	14240.1
-32.5°	6494.5	7172.8	7877.2	8584.7	9272.9	9997.5	10749.5	11503.6	12245.7	12876.9	13403.1
-35°	6187.4	6836.8	7491.4	8126.7	8764.1	9412.3	10110.1	10816.1	11480.1	12056.4	12570.1
-37.5°	5844.8	6470.4	7067.8	7646.2	8237.0	8836.4	9482.8	10131.4	10741.3	11262.9	11752.7
-40°	5503.7	6073.8	6614.9	7154.7	7696.4	8257.7	8842.3	9423.1	9958.4	10451.8	10908.2
-42.5°	5149.4	5648.4	6140.8	6643.4	7143.1	7649.2	8171.6	8699.7	9176.7	9626.7	10031.3
-45°	4791.9	5220.1	5655.2	6115.5	6571.8	7026.2	7478.3	7924.2	8370.8	8790.2	9131.9
-47.5°	4411.7	4798.2	5193.1	5588.9	5997.8	6412.6	6807.9	7193.8	7588.3	7963.0	8245.4
-50°	4028.0	4385.8	4742.9	5091.6	5453.0	5817.8	6178.0	6517.7	6848.2	7166.9	7387.6
-52.5°	3641.6	3972.5	4299.7	4615.0	4928.6	5239.6	5544.7	5846.1	6135.7	6408.8	6583.8
-55°	3274.6	3569.7	3857.4	4132.8	4409.6	4682.7	4951.8	5215.4	5465.4	5700.2	5835.2
-57.5°	2929.5	3186.5	3438.4	3675.5	3907.2	4132.3	4370.1	4609.6	4834.7	5036.5	5145.3
-60°	2593.2	2824.7	3040.9	3239.1	3437.8	3635.4	3835.8	4033.6	4226.3	4393.9	4487.5
-62.5°	2262.4	2460.2	2644.3	2814.8	2978.9	3142.2	3316.0	3482.8	3641.5	3770.9	3850.3
-65°	1972.6	2140.3	2278.0	2413.8	2548.6	2692.2	2836.6	2974.3	3104.7	3206.0	3272.9
-67.5°	1690.9	1828.8	1943.4	2056.1	2168.9	2283.1	2399.3	2512.0	2620.2	2702.1	2760.2
-70°	1423.0	1527.2	1617.0	1708.8	1802.3	1895.6	1989.0	2078.9	2164.8	2227.2	2274.0
-72.5°	1163.9	1244.4	1314.4	1385.6	1455.9	1528.1	1600.5	1670.0	1736.2	1781.0	1813.8
-75°	909.7	968.1	1024.2	1078.5	1130.9	1184.7	1237.9	1288.8	1336.9	1370.8	1397.8
-77.5°	684.9	726.4	763.0	798.8	833.7	871.0	907.5	942.0	974.2	997.7	1017.6
-80°	479.8	506.6	529.9	551.9	572.4	595.5	618.2	639.6	659.6	673.4	684.3
-82.5°	297.8	313.5	327.5	340.4	352.2	364.3	375.5	385.7	394.9	405.6	415.6
-85°	154.5	161.0	166.9	172.4	177.5	182.5	186.9	190.9	194.4	196.3	197.7
-87.5°	60.0	61.5	62.9	64.2	65.3	66.9	68.4	69.8	71.1	72.3	73.3
-90°	3.4	3.1	2.9	2.6	2.3	2.3	2.3	2.3	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°	14.5	14.8	14.8	14.8	14.8	14.8	14.5	14.3	14.0	13.7	13.4
87.5°	7.7	6.9	6.3	5.7	6.3	6.9	7.7	8.5	9.3	10.0	8.6
85°	14.2	12.6	11.4	10.3	11.4	12.6	14.2	15.8	17.3	18.8	17.4
82.5°	15.4	14.8	14.8	14.8	14.8	14.8	15.4	16.0	16.6	17.4	18.3
80°	18.8	18.3	18.8	19.4	18.8	18.3	18.8	19.3	19.7	20.3	22.2
77.5°	20.0	19.4	19.4	19.4	19.4	19.4	20.0	20.5	21.1	22.0	25.1
75°	19.4	19.4	18.9	18.3	18.9	19.4	19.4	19.5	19.7	20.6	24.3
72.5°	16.5	16.1	16.0	16.0	16.0	16.1	16.5	16.9	17.3	18.3	21.1
70°	15.4	15.9	15.4	14.8	15.4	15.9	15.4	14.9	14.7	15.2	17.1
67.5°	12.8	12.7	12.6	12.6	12.6	12.7	12.8	12.9	12.9	13.2	14.1
65°	10.8	10.4	10.3	10.3	10.3	10.4	10.8	11.2	11.6	12.0	12.5
62.5°	9.6	9.2	9.1	9.1	9.1	9.2	9.6	10.1	10.5	11.1	11.7
60°	11.0	10.4	9.8	9.1	9.8	10.4	11.0	11.4	11.8	11.9	12.1
57.5°	11.8	11.5	11.4	11.4	11.4	11.5	11.8	12.1	12.6	13.0	13.4
55°	12.9	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.3	13.8	14.2
52.5°	15.4	14.9	14.4	13.7	14.4	14.9	15.4	15.7	16.0	16.4	16.4
50°	24.4	23.2	22.6	22.8	22.6	23.2	24.4	24.9	25.0	24.8	23.4
47.5°	45.1	45.1	44.9	44.5	44.9	45.1	45.1	44.2	44.3	43.9	40.5
45°	76.8	73.7	70.8	69.7	70.8	73.7	76.8	77.1	78.5	77.6	72.9
42.5°	134.9	134.2	131.8	129.1	131.8	134.2	134.9	132.3	136.2	132.6	124.6
40°	234.4	231.2	225.7	227.3	225.7	231.2	234.4	231.7	241.8	229.0	230.0
37.5°	488.1	464.7	429.2	429.5	429.2	464.7	488.1	503.6	511.7	417.8	497.1
35°	1142.6	1161.7	1139.0	1138.8	1139.0	1161.7	1142.6	1149.5	1151.5	1074.7	1133.0
32.5°	2186.5	2154.7	2025.9	1958.8	2025.9	2154.7	2186.5	2255.3	2202.2	2150.3	2163.0
30°	4119.2	4139.6	3946.5	3950.8	3946.5	4139.6	4119.2	4123.8	3865.5	3891.1	3737.0
27.5°	7048.4	7205.2	7164.0	7095.2	7164.0	7205.2	7048.4	6904.4	6547.5	6398.9	6020.1
25°	10539.9	10658.1	10579.0	10530.9	10579.0	10658.1	10539.9	10256.9	9825.2	9400.5	8858.5
22.5°	14571.6	14736.1	14694.7	14486.3	14694.7	14736.1	14571.6	14097.8	13609.9	12811.7	12089.1
20°	19034.9	19316.5	19480.2	19374.8	19480.2	19316.5	19034.9	18394.0	17615.9	16585.7	15478.8
17.5°	23395.3	23758.6	24037.1	24130.8	24037.1	23758.6	23395.3	22563.4	21392.0	20078.5	18670.3
15°	27062.0	27581.4	27947.3	28077.1	27947.3	27581.4	27062.0	26085.2	24638.5	23093.7	21354.2
12.5°	29693.3	30369.4	30798.5	30927.4	30798.5	30369.4	29693.3	28549.4	27191.9	25377.1	23531.6
10°	31140.3	31992.5	32480.9	32684.6	32480.9	31992.5	31140.3	30122.8	28664.4	26912.5	24843.2
7.5°	31948.7	32718.5	33180.0	33248.3	33180.0	32718.5	31948.7	30756.2	29416.9	27612.7	25529.8
5°	32211.0	32910.4	33291.3	33326.5	33291.3	32910.4	32211.0	31059.8	29666.4	27886.9	25705.9
2.5°	32326.0	32917.0	33197.9	33126.1	33197.9	32917.0	32326.0	31218.0	29861.6	28145.0	26036.0
0°	32267.1	32795.4	33093.6	33138.0	33093.6	32795.4	32267.1	31350.5	29977.6	28305.5	26157.0
-2.5°	31788.0	32181.4	32392.8	32256.9	32392.8	32181.4	31788.0	30954.9	29623.8	27930.1	25895.1
-5°	30695.5	30978.5	31066.9	31116.4	31066.9	30978.5	30695.5	30015.5	28791.2	27097.9	25185.0
-7.5°	29116.5	29347.4	29434.6	29373.5	29434.6	29347.4	29116.5	28417.6	27251.5	25756.4	23852.4
-10°	27035.2	27246.9	27320.8	27278.7	27320.8	27246.9	27035.2	26415.4	25292.7	23888.9	22211.3
-12.5°	24928.4	25179.3	25236.8	25240.4	25236.8	25179.3	24928.4	24319.0	23302.0	22039.2	20491.9
-15°	22857.4	23144.2	23231.8	23308.5	23231.8	23144.2	22857.4	22271.5	21374.8	20198.5	18805.0
-17.5°	20822.4	21107.2	21181.2	21081.2	21181.2	21107.2	20822.4	20260.2	19468.1	18411.9	17140.2
-20°	19149.6	19297.3	19454.8	19453.6	19454.8	19297.3	19149.6	18706.1	17918.5	16956.7	15826.6



REPORT NUMBER: P731422 (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°	17768.0	18012.2	18146.4	18241.7	18146.4	18012.2	17768.0	17398.0	16648.9	15735.3	14712.5
-25°	16472.3	16679.6	16763.0	16826.6	16763.0	16679.6	16472.3	16080.3	15439.4	14612.0	13641.8
-27.5°	15474.1	15684.5	15803.6	15874.0	15803.6	15684.5	15474.1	15079.7	14520.5	13724.9	12851.9
-30°	14678.1	14884.8	15026.6	15115.6	15026.6	14884.8	14678.1	14240.1	13702.6	12981.2	12180.2
-32.5°	13820.3	14036.5	14184.3	14276.1	14184.3	14036.5	13820.3	13403.1	12876.9	12245.7	11503.6
-35°	12928.9	13145.2	13304.7	13379.5	13304.7	13145.2	12928.9	12570.1	12056.4	11480.1	10816.1
-37.5°	12062.9	12264.8	12405.8	12461.2	12405.8	12264.8	12062.9	11752.7	11262.9	10741.3	10131.4
-40°	11160.2	11350.7	11481.6	11532.6	11481.6	11350.7	11160.2	10908.2	10451.8	9958.4	9423.1
-42.5°	10250.0	10427.7	10548.6	10599.4	10548.6	10427.7	10250.0	10031.3	9626.7	9176.7	8699.7
-45°	9328.0	9486.0	9588.4	9627.4	9588.4	9486.0	9328.0	9131.9	8790.2	8370.8	7924.2
-47.5°	8420.4	8563.0	8650.9	8679.4	8650.9	8563.0	8420.4	8245.4	7963.0	7588.3	7193.8
-50°	7534.5	7651.2	7731.7	7777.1	7731.7	7651.2	7534.5	7387.6	7166.9	6848.2	6517.7
-52.5°	6715.0	6821.1	6884.2	6909.0	6884.2	6821.1	6715.0	6583.8	6408.8	6135.7	5846.1
-55°	5947.0	6038.8	6092.5	6114.1	6092.5	6038.8	5947.0	5835.2	5700.2	5465.4	5215.4
-57.5°	5237.7	5312.9	5363.6	5392.2	5363.6	5312.9	5237.7	5145.3	5036.5	4834.7	4609.6
-60°	4565.3	4627.0	4669.5	4694.4	4669.5	4627.0	4565.3	4487.5	4393.9	4226.3	4033.6
-62.5°	3916.2	3968.6	4003.0	4022.8	4003.0	3968.6	3916.2	3850.3	3770.9	3641.5	3482.8
-65°	3329.3	3375.3	3397.4	3406.0	3397.4	3375.3	3329.3	3272.9	3206.0	3104.7	2974.3
-67.5°	2810.1	2851.5	2866.5	2869.2	2866.5	2851.5	2810.1	2760.2	2702.1	2620.2	2512.0
-70°	2314.5	2348.2	2359.5	2360.9	2359.5	2348.2	2314.5	2274.0	2227.2	2164.8	2078.9
-72.5°	1840.8	1862.0	1878.4	1889.2	1878.4	1862.0	1840.8	1813.8	1781.0	1736.2	1670.0
-75°	1420.5	1438.7	1446.5	1449.4	1446.5	1438.7	1420.5	1397.8	1370.8	1336.9	1288.8
-77.5°	1034.5	1048.3	1051.5	1050.8	1051.5	1048.3	1034.5	1017.6	997.7	974.2	942.0
-80°	693.0	699.4	703.7	705.9	703.7	699.4	693.0	684.3	673.4	659.6	639.6
-82.5°	424.6	432.4	424.3	414.6	424.3	432.4	424.6	415.6	405.6	394.9	385.7
-85°	198.6	199.0	199.7	199.9	199.7	199.0	198.6	197.7	196.3	194.4	190.9
-87.5°	74.3	75.2	74.7	74.2	74.7	75.2	74.3	73.3	72.3	71.1	69.8
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	13.2	12.9	12.6	12.3	12.0	11.7	11.4	10.8	10.3	9.7	9.1
87.5°	7.1	5.7	4.4	4.9	5.4	5.8	6.3	5.9	5.6	5.3	5.0
85°	15.9	14.4	12.9	12.9	12.8	12.8	12.7	12.5	12.1	11.6	10.9
82.5°	19.0	19.5	19.9	21.5	22.7	23.5	23.9	23.8	23.3	22.5	21.1
80°	24.0	25.6	27.2	30.6	33.5	36.0	37.9	38.7	39.2	39.1	37.8
77.5°	28.1	30.8	33.8	38.7	43.2	47.4	51.0	53.0	54.1	54.5	53.0
75°	28.0	31.7	36.5	43.2	49.7	55.7	60.2	63.3	65.9	67.8	66.1
72.5°	24.3	27.8	33.5	42.1	51.1	58.7	65.0	70.2	74.8	78.7	76.0
70°	19.3	21.8	26.9	34.5	42.8	51.7	61.1	70.5	79.8	85.8	81.5
67.5°	15.2	16.7	20.8	26.9	34.1	42.1	51.6	62.5	72.9	82.7	80.8
65°	13.0	13.4	16.0	20.4	25.8	32.3	40.3	49.8	60.9	72.1	72.5
62.5°	12.2	12.6	14.1	16.4	19.5	23.6	29.7	38.0	47.6	55.4	58.1
60°	12.4	12.8	13.8	15.0	16.3	18.3	23.1	28.7	35.3	41.8	45.1
57.5°	13.6	13.9	14.4	15.0	15.8	17.7	20.1	22.8	28.1	31.9	34.7
55°	14.6	15.0	15.4	15.7	16.1	17.8	19.6	21.9	24.3	25.5	29.0
52.5°	15.9	16.8	17.3	17.0	17.6	18.8	19.7	21.6	23.6	25.0	25.9
50°	22.4	23.6	22.8	20.8	22.7	22.4	22.2	22.7	25.0	26.3	26.2
47.5°	40.2	40.6	36.8	34.2	36.4	33.6	31.5	29.7	33.3	29.9	29.5
45°	75.8	74.1	65.2	66.2	63.7	59.4	50.3	55.1	50.9	45.6	35.0
42.5°	132.8	130.1	121.0	126.1	117.1	105.8	100.7	105.9	88.6	72.0	75.9
40°	241.1	210.3	228.0	236.1	212.9	179.3	225.5	193.8	165.1	118.7	156.3
37.5°	503.1	410.1	493.5	495.9	429.7	395.3	445.3	401.4	280.3	296.4	301.6
35°	1079.7	1028.1	1009.5	973.6	849.8	891.1	798.6	706.4	606.6	573.8	519.2
32.5°	1955.2	2010.0	1880.5	1721.7	1706.6	1621.8	1429.9	1151.8	1152.8	1039.4	849.3
30°	3476.3	3402.7	3170.6	2907.0	2901.6	2685.1	2257.3	2071.4	1899.7	1642.0	1279.7
27.5°	5763.2	5254.0	4888.0	4682.6	4378.3	4021.8	3601.6	3166.8	2800.0	2407.3	1919.8
25°	8458.9	7825.1	7169.7	6734.9	6205.4	5642.5	5120.4	4510.8	3897.1	3281.2	2663.5
22.5°	11350.8	10580.9	9781.4	8972.7	8180.7	7458.5	6765.8	5957.3	5021.6	4157.0	3442.5
20°	14321.0	13269.5	12305.4	11183.5	10110.1	9231.0	8448.1	7334.6	6085.3	5034.4	4201.1
17.5°	17143.5	15803.0	14444.7	13051.5	11890.3	10938.0	9726.4	8424.5	7078.8	5859.7	4925.8
15°	19683.5	17839.5	16222.3	14754.6	13353.0	11972.7	10702.7	9415.1	8007.4	6689.0	5587.8
12.5°	21442.2	19509.7	17773.4	15922.1	14287.5	12842.9	11553.6	10262.6	8784.8	7238.3	5957.2
10°	22731.2	20636.9	18609.7	16721.9	15078.3	13613.8	12181.6	10714.3	9116.9	7567.5	6264.1
7.5°	23324.7	21232.5	19238.5	17297.7	15581.4	14049.1	12528.0	11000.6	9354.4	7795.5	6510.7
5°	23601.4	21597.1	19616.3	17594.2	15871.0	14356.4	12810.0	11218.1	9499.1	7932.8	6699.6
2.5°	23854.4	21793.6	19804.0	17720.1	16042.4	14565.0	13056.2	11437.7	9679.0	8075.9	6820.6
0°	24022.3	21994.9	19981.3	17802.0	16139.0	14694.1	13269.8	11633.1	9835.3	8175.7	6893.1
-2.5°	23733.3	21694.5	19713.7	17635.4	15935.5	14511.8	13115.3	11552.1	9805.0	8175.7	6896.0
-5°	23102.7	21091.0	19150.8	17167.0	15471.2	14057.5	12712.3	11251.9	9627.2	8086.6	6854.6
-7.5°	21922.2	20124.4	18363.5	16517.4	14848.2	13440.0	12123.1	10734.2	9236.2	7792.5	6610.4
-10°	20417.0	18765.0	17120.3	15485.7	14017.6	12721.5	11468.1	10168.7	8782.7	7440.3	6326.7
-12.5°	18920.3	17344.9	15778.4	14277.7	12997.3	11803.9	10690.5	9547.3	8275.6	7031.6	6007.9
-15°	17304.1	15883.1	14500.8	13163.7	11925.2	10835.2	9850.6	8830.1	7701.8	6589.0	5657.1
-17.5°	15899.0	14485.8	13218.2	12137.6	11011.6	9903.8	9022.1	8128.1	7165.9	6205.0	5356.4
-20°	14656.5	13458.3	12225.8	11193.6	10231.5	9268.3	8319.7	7470.4	6668.8	5856.2	5096.6



REPORT NUMBER: P731422 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13648.6	12564.1	11476.6	10427.2	9517.2	8695.2	7861.9	7017.6	6204.5	5499.0	4845.3
-25°	12752.7	11728.7	10774.7	9888.7	8964.7	8150.7	7445.5	6697.4	5922.0	5183.1	4613.2
-27.5°	12003.2	11070.5	10210.7	9409.3	8578.2	7779.4	7081.5	6389.5	5669.9	5006.0	4421.0
-30°	11359.9	10549.3	9753.8	8999.0	8238.8	7487.6	6764.6	6107.9	5440.3	4814.5	4260.9
-32.5°	10749.5	9997.5	9272.9	8584.7	7877.2	7172.8	6494.5	5823.2	5181.0	4620.2	4106.7
-35°	10110.1	9412.3	8764.1	8126.7	7491.4	6836.8	6187.4	5529.8	4931.0	4404.9	3928.2
-37.5°	9482.8	8836.4	8237.0	7646.2	7067.8	6470.4	5844.8	5245.4	4679.1	4177.7	3726.4
-40°	8842.3	8257.7	7696.4	7154.7	6614.9	6073.8	5503.7	4947.1	4428.2	3928.2	3504.5
-42.5°	8171.6	7649.2	7143.1	6643.4	6140.8	5648.4	5149.4	4646.8	4159.5	3694.3	3269.2
-45°	7478.3	7026.2	6571.8	6115.5	5655.2	5220.1	4791.9	4331.7	3879.2	3446.4	3026.5
-47.5°	6807.9	6412.6	5997.8	5588.9	5193.1	4798.2	4411.7	4003.2	3588.1	3182.8	2809.8
-50°	6178.0	5817.8	5453.0	5091.6	4742.9	4385.8	4028.0	3668.6	3286.6	2924.6	2584.1
-52.5°	5544.7	5239.6	4928.6	4615.0	4299.7	3972.5	3641.6	3321.5	2984.5	2667.2	2365.8
-55°	4951.8	4682.7	4409.6	4132.8	3857.4	3569.7	3274.6	2983.7	2700.2	2412.6	2153.5
-57.5°	4370.1	4132.3	3907.2	3675.5	3438.4	3186.5	2929.5	2669.6	2419.5	2173.6	1939.5
-60°	3835.8	3635.4	3437.8	3239.1	3040.9	2824.7	2593.2	2365.1	2141.5	1937.2	1738.5
-62.5°	3316.0	3142.2	2978.9	2814.8	2644.3	2460.2	2262.4	2077.0	1890.4	1707.0	1546.0
-65°	2836.6	2692.2	2548.6	2413.8	2278.0	2140.3	1972.6	1808.6	1651.6	1500.4	1359.6
-67.5°	2399.3	2283.1	2168.9	2056.1	1943.4	1828.8	1690.9	1551.7	1422.7	1300.2	1180.5
-70°	1989.0	1895.6	1802.3	1708.8	1617.0	1527.2	1423.0	1313.2	1206.0	1101.8	997.5
-72.5°	1600.5	1528.1	1455.9	1385.6	1314.4	1244.4	1163.9	1074.0	984.9	897.2	812.5
-75°	1237.9	1184.7	1130.9	1078.5	1024.2	968.1	909.7	842.7	775.3	707.6	640.5
-77.5°	907.5	871.0	833.7	798.8	763.0	726.4	684.9	631.5	581.0	531.1	482.5
-80°	618.2	595.5	572.4	551.9	529.9	506.6	479.8	441.8	404.1	369.1	337.5
-82.5°	375.5	364.3	352.2	340.4	327.5	313.5	297.8	275.6	253.8	232.5	211.6
-85°	186.9	182.5	177.5	172.4	166.9	161.0	154.5	145.1	135.3	125.3	114.9
-87.5°	68.4	66.9	65.3	64.2	62.9	61.5	60.0	56.6	53.1	49.7	46.3
-90°	2.3	2.3	2.3	2.6	2.9	3.1	3.4	3.4	3.4	3.4	3.4





REPORT NUMBER: P731422 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.8	8.6	8.3	8.0	8.0	8.0	8.0	8.0	7.7	7.5	7.2
87.5°	5.9	6.7	7.4	8.0	7.5	7.1	6.7	6.3	6.6	6.7	6.9
85°	11.2	11.5	12.0	12.6	11.8	10.8	10.0	9.3	9.4	9.5	9.5
82.5°	19.1	18.1	17.6	17.2	17.1	16.6	15.6	14.2	12.9	12.2	12.0
80°	33.9	30.3	27.1	24.4	22.9	22.4	21.7	20.2	17.2	15.1	13.9
77.5°	47.5	42.6	38.0	33.5	29.6	26.9	25.5	24.9	21.3	17.7	15.4
75°	60.0	53.5	47.4	41.4	35.7	31.0	27.7	25.6	22.8	20.0	16.8
72.5°	68.3	61.3	55.1	48.6	41.1	34.8	29.8	26.3	23.4	20.6	17.8
70°	74.1	67.3	60.2	52.8	45.4	38.3	32.0	27.7	24.0	21.1	18.2
67.5°	77.7	70.0	63.0	56.2	48.6	41.1	33.8	29.2	25.4	21.6	18.6
65°	69.9	67.4	64.5	57.3	50.5	43.6	35.9	30.8	26.7	22.7	19.0
62.5°	59.8	59.7	58.0	56.3	51.0	44.3	38.0	32.8	28.0	23.8	19.7
60°	47.3	49.4	51.1	50.6	48.8	44.3	38.8	34.6	29.5	24.8	20.6
57.5°	38.2	39.7	42.9	44.8	44.3	42.2	39.3	35.6	30.8	25.9	21.5
55°	31.2	33.9	36.6	38.9	39.9	38.7	39.1	36.1	31.9	26.9	22.5
52.5°	27.7	30.3	33.0	34.6	35.8	36.3	38.0	36.7	32.5	27.7	23.6
50°	26.6	29.4	31.4	32.6	32.7	35.4	37.7	36.9	33.2	28.4	24.9
47.5°	30.6	33.0	32.3	32.1	32.1	35.5	38.2	37.5	33.8	29.0	26.2
45°	45.5	41.7	37.5	34.3	34.4	38.0	39.4	38.7	35.0	30.7	27.7
42.5°	72.2	64.8	49.6	37.5	44.0	42.2	41.5	40.6	36.6	32.6	29.3
40°	146.0	102.2	70.6	65.5	60.5	47.7	46.1	43.2	38.7	35.0	31.2
37.5°	249.0	180.4	114.4	116.8	90.1	67.9	51.8	46.3	42.5	38.1	33.2
35°	427.6	301.0	238.5	212.3	152.6	92.8	58.2	50.8	47.0	41.4	35.3
32.5°	648.3	528.9	466.9	357.6	230.7	122.2	76.2	59.3	52.1	44.8	37.6
30°	1021.5	922.7	748.5	536.0	341.0	194.7	107.7	69.0	57.7	48.3	40.0
27.5°	1584.4	1387.1	1091.3	793.6	511.1	282.8	154.2	79.8	63.8	52.4	42.9
25°	2197.2	1913.5	1537.7	1100.0	702.6	422.8	211.1	92.9	71.9	57.3	45.8
22.5°	2874.2	2457.5	2030.4	1434.9	915.3	585.3	301.7	136.4	81.4	62.3	48.7
20°	3522.8	3011.3	2523.1	1697.8	1142.3	774.4	427.9	185.0	91.3	67.5	51.6
17.5°	4152.7	3465.9	2789.4	1984.1	1364.9	953.0	564.3	237.7	101.6	72.8	54.4
15°	4582.3	3769.6	3038.7	2239.9	1563.8	1120.9	707.7	293.2	112.0	78.1	58.7
12.5°	4911.5	4044.8	3276.7	2465.1	1740.1	1278.2	854.8	349.9	122.3	86.3	65.0
10°	5194.2	4290.8	3499.9	2660.3	1895.0	1424.7	1001.9	403.5	138.4	96.8	71.2
7.5°	5431.5	4507.2	3704.7	2826.0	2021.6	1521.3	1092.0	447.0	155.0	107.3	77.4
5°	5616.7	4667.5	3866.6	2938.9	2087.4	1564.8	1160.2	485.0	171.1	117.7	83.4
2.5°	5726.9	4754.6	3989.0	3022.9	2140.0	1596.8	1213.3	517.0	186.5	127.6	89.2
0°	5798.8	4810.9	4081.0	3080.5	2178.1	1618.5	1250.7	542.5	201.0	137.1	94.8
-2.5°	5826.2	4819.3	4094.3	3153.9	2255.7	1685.4	1287.1	613.3	268.9	183.6	124.6
-5°	5811.1	4802.0	4080.7	3200.2	2316.9	1741.1	1309.9	677.2	334.6	228.8	153.7
-7.5°	5629.5	4700.7	4010.2	3207.2	2361.2	1783.7	1321.7	734.1	397.2	271.9	181.5
-10°	5387.0	4537.8	3863.8	3110.6	2356.5	1809.4	1328.0	784.1	455.7	312.3	207.8
-12.5°	5118.0	4353.7	3704.9	3005.2	2335.2	1823.3	1345.5	830.8	509.3	349.3	232.0
-15°	4826.8	4149.8	3537.8	2896.4	2305.5	1830.3	1354.9	870.7	557.6	384.4	253.8
-17.5°	4540.3	3927.5	3366.6	2789.3	2269.4	1831.6	1357.6	901.6	600.4	418.2	277.1
-20°	4384.7	3766.0	3198.3	2688.5	2228.4	1828.2	1354.6	923.1	637.0	448.1	300.9



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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°	4229.3	3660.2	3117.5	2617.0	2193.9	1821.0	1347.1	935.0	667.1	473.6	321.6
-25°	4066.0	3548.9	3039.3	2566.3	2170.7	1794.9	1343.4	937.0	690.1	494.5	339.0
-27.5°	3921.5	3436.5	2948.8	2496.1	2125.4	1767.2	1337.5	959.2	708.3	510.6	352.9
-30°	3786.0	3322.9	2853.1	2413.8	2063.7	1700.4	1319.9	973.3	724.5	524.3	363.0
-32.5°	3646.2	3198.4	2737.8	2333.4	1981.8	1624.6	1270.2	977.5	734.1	534.6	371.7
-35°	3483.1	3047.5	2603.2	2233.8	1889.9	1546.5	1214.6	971.8	737.0	539.7	377.2
-37.5°	3298.0	2870.8	2476.1	2121.5	1791.5	1462.5	1174.2	943.1	733.1	539.5	378.6
-40°	3093.3	2694.2	2330.3	2007.6	1691.7	1372.9	1126.0	912.7	726.3	534.0	376.0
-42.5°	2878.0	2521.8	2191.1	1886.7	1588.2	1310.6	1072.1	876.7	701.6	525.5	369.3
-45°	2676.7	2346.4	2046.8	1764.0	1484.7	1240.6	1025.6	836.1	670.4	512.9	360.2
-47.5°	2469.1	2177.0	1900.7	1634.3	1396.9	1167.4	972.7	795.6	634.9	494.6	349.6
-50°	2273.3	2006.6	1753.6	1517.5	1296.8	1101.1	915.5	750.1	599.5	464.0	335.5
-52.5°	2089.0	1841.9	1614.6	1400.2	1208.1	1027.9	858.0	700.1	559.9	434.2	317.9
-55°	1905.9	1685.0	1478.8	1291.9	1117.6	953.6	794.9	649.9	516.6	403.0	297.6
-57.5°	1729.9	1529.7	1354.3	1186.2	1024.9	873.7	730.2	595.2	474.4	368.8	277.9
-60°	1552.8	1390.6	1232.6	1076.5	928.1	791.1	662.5	538.6	430.2	333.0	253.2
-62.5°	1392.3	1246.9	1103.9	961.0	829.5	707.0	591.5	482.5	382.7	299.6	225.7
-65°	1227.9	1097.5	969.1	846.7	729.7	620.6	521.2	422.8	338.6	264.2	198.6
-67.5°	1061.5	947.7	838.7	730.1	630.7	536.9	447.1	367.1	293.9	226.8	175.2
-70°	895.4	797.1	707.8	620.0	533.3	451.5	380.3	311.9	247.1	196.4	150.7
-72.5°	732.8	656.0	582.5	508.8	439.6	374.2	313.0	257.0	209.0	165.0	125.2
-75°	575.7	518.1	462.8	406.5	348.8	295.2	251.8	210.6	169.8	132.5	103.0
-77.5°	436.1	390.5	346.1	306.9	267.2	229.9	195.4	162.7	131.4	105.0	81.5
-80°	307.2	277.6	248.8	220.4	190.8	163.3	141.4	120.2	97.6	77.4	59.5
-82.5°	191.0	174.2	158.5	142.7	125.6	109.3	93.7	78.8	63.1	49.2	40.9
-85°	104.9	94.7	84.6	74.6	64.4	54.7	50.1	45.5	39.9	34.7	29.8
-87.5°	43.8	41.2	38.7	36.1	33.8	31.4	29.1	26.8	23.9	21.1	18.5
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.9	6.6	6.3	6.0	5.7	5.2	4.6
87.5°	7.0	6.6	6.3	6.2	6.1	5.3	4.6
85°	9.3	8.3	7.5	6.9	6.5	5.5	4.6
82.5°	11.6	10.0	8.7	7.7	6.9	5.7	4.6
80°	13.7	11.7	9.9	8.4	7.3	5.8	4.6
77.5°	14.2	12.9	11.0	9.1	7.7	6.0	4.6
75°	14.7	13.1	11.9	9.8	8.0	6.2	4.6
72.5°	15.1	13.3	11.9	10.5	8.4	6.3	4.6
70°	15.5	13.4	11.9	11.0	8.7	6.5	4.6
67.5°	15.9	13.5	11.9	10.9	9.1	6.6	4.6
65°	16.4	13.8	11.8	10.8	9.4	6.8	4.6
62.5°	16.9	14.3	11.8	10.6	9.7	6.9	4.6
60°	17.3	14.7	11.6	10.5	10.0	7.0	4.6
57.5°	18.2	15.2	12.0	10.3	9.9	7.2	4.6
55°	19.1	15.6	12.4	10.1	9.8	7.3	4.6
52.5°	20.0	16.1	12.8	9.9	9.7	7.4	4.6
50°	20.8	16.9	13.2	9.7	9.7	7.5	4.6
47.5°	21.7	17.6	13.6	9.6	9.6	7.6	4.6
45°	23.0	18.2	13.9	9.9	9.6	7.7	4.6
42.5°	24.3	18.9	14.3	10.1	9.5	7.8	4.6
40°	25.7	19.5	14.7	10.5	9.5	7.9	4.6
37.5°	27.1	20.1	15.1	11.1	9.5	7.9	4.6
35°	28.6	21.0	15.6	11.6	9.5	8.0	4.6
32.5°	30.2	22.1	16.0	12.2	9.5	8.0	4.6
30°	32.0	23.2	16.3	12.8	9.6	8.1	4.6
27.5°	33.8	24.3	17.5	13.4	9.6	8.1	4.6
25°	35.6	25.4	18.8	14.0	9.6	8.1	4.6
22.5°	37.4	27.0	20.2	14.6	9.7	8.2	4.6
20°	39.2	29.9	21.7	15.2	9.8	8.2	4.6
17.5°	42.6	32.8	23.1	15.8	9.8	8.2	4.6
15°	46.9	35.8	24.6	16.4	9.9	8.2	4.6
12.5°	51.1	38.8	26.1	17.0	10.0	8.2	4.6
10°	55.3	41.7	27.6	17.5	10.0	8.1	4.6
7.5°	59.4	44.6	29.1	18.1	10.1	8.1	4.6
5°	63.4	47.4	30.5	18.6	10.2	8.1	4.6
2.5°	67.2	50.0	31.8	19.0	10.2	8.0	4.6
0°	70.8	52.5	33.1	19.4	10.3	8.0	4.6
-2.5°	88.6	62.8	38.5	21.8	11.1	8.1	4.6
-5°	105.9	72.7	43.7	24.1	11.9	8.3	4.6
-7.5°	122.6	82.3	48.7	26.3	12.6	8.4	4.6
-10°	138.3	91.2	53.4	28.3	13.4	8.5	4.6
-12.5°	153.0	99.5	57.7	30.3	14.0	8.6	4.6
-15°	166.4	107.0	61.7	32.0	14.7	8.7	4.6
-17.5°	178.3	113.7	65.1	33.6	15.3	8.8	4.6
-20°	191.3	119.3	68.1	34.9	15.8	8.9	4.6



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	206.9	123.9	70.6	36.0	16.3	9.0	4.6
-25°	220.1	130.9	72.4	36.8	16.7	9.0	4.6
-27.5°	230.9	137.9	73.6	37.4	17.0	9.0	4.6
-30°	239.0	143.4	74.5	37.7	17.3	9.1	4.6
-32.5°	244.5	147.3	77.3	37.7	17.5	9.1	4.6
-35°	248.4	149.4	79.1	37.4	17.6	9.0	4.6
-37.5°	250.2	150.4	80.0	36.8	17.6	9.0	4.6
-40°	249.5	151.0	79.8	35.9	17.5	9.0	4.6
-42.5°	246.1	149.9	79.4	35.1	17.4	8.9	4.6
-45°	240.2	147.2	78.9	34.7	17.1	8.8	4.6
-47.5°	231.6	142.8	77.5	33.8	16.8	8.7	4.6
-50°	223.1	136.8	75.4	33.5	16.4	8.6	4.6
-52.5°	212.8	129.2	72.3	33.1	15.9	8.5	4.6
-55°	200.2	122.8	68.5	32.4	15.3	8.3	4.6
-57.5°	185.4	115.7	63.9	31.3	14.6	8.2	4.6
-60°	169.1	107.3	58.6	29.9	13.9	8.0	4.6
-62.5°	155.6	97.9	54.9	28.1	13.4	7.8	4.6
-65°	140.5	87.4	50.7	26.0	12.8	7.6	4.6
-67.5°	124.0	77.7	45.9	23.7	12.2	7.4	4.6
-70°	106.3	68.9	40.6	21.0	11.6	7.2	4.6
-72.5°	91.4	59.4	34.9	19.3	11.0	7.0	4.6
-75°	76.3	49.2	28.8	17.6	10.3	6.7	4.6
-77.5°	60.3	38.6	24.9	15.8	9.6	6.5	4.6
-80°	43.7	31.0	21.4	14.0	8.8	6.2	4.6
-82.5°	34.0	25.1	17.7	12.0	8.1	6.0	4.6
-85°	25.1	19.0	14.0	10.1	7.3	5.7	4.6
-87.5°	16.0	12.8	10.2	8.0	6.5	5.4	4.6
-90°	4.6	4.9	5.2	5.4	5.7	5.2	4.6

(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

