

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: P701458 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-7F-VHE-S**

Issue Date: 8/29/2023

**Test Information**

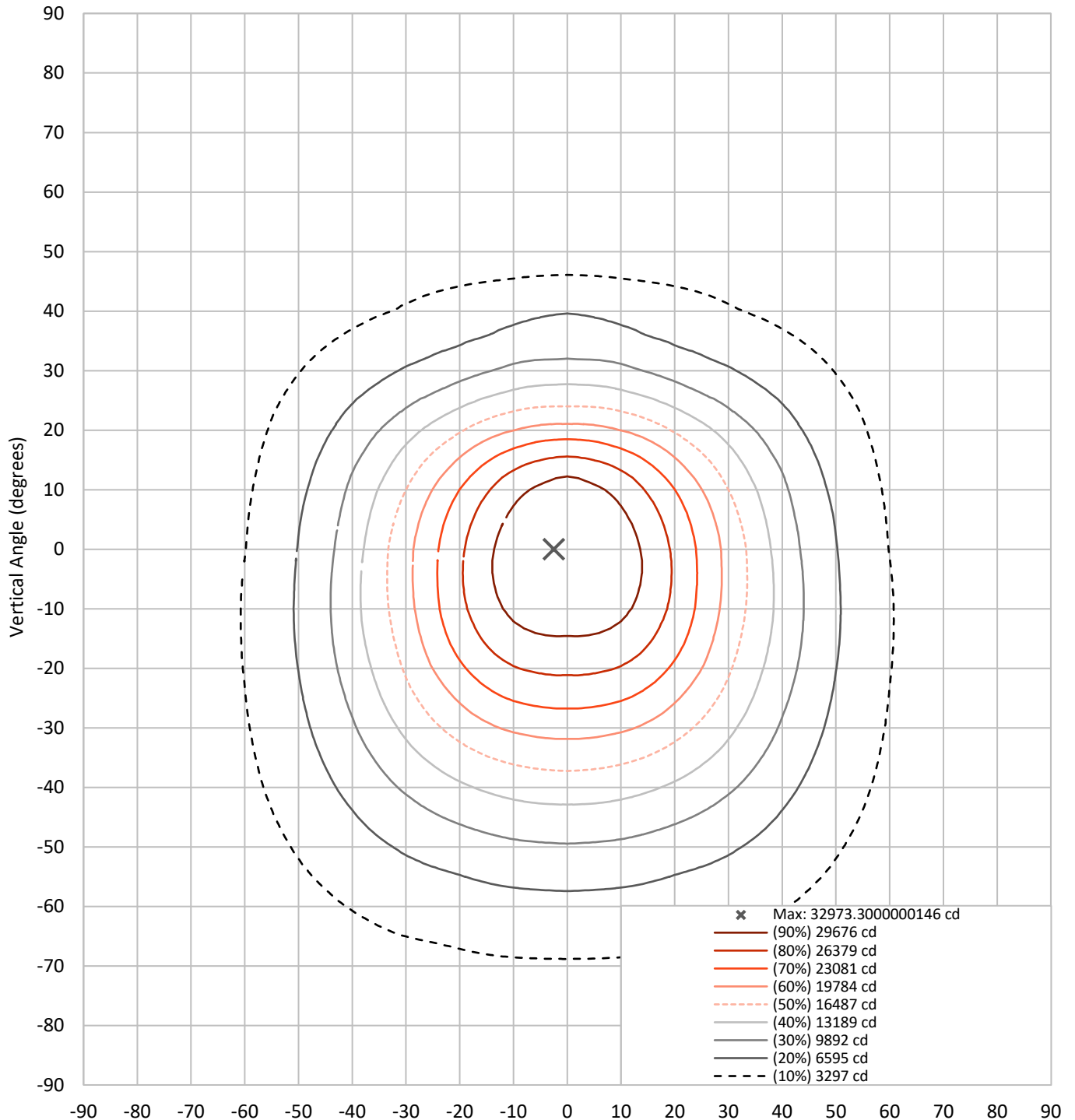
Test Method: LM-79-08  
Report Number: P701458 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-80-7F-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	43866.7 lumens	Max Intensity:	32973.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	127.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	23817.5 lumens	Field Lumens:	41107 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	344.2		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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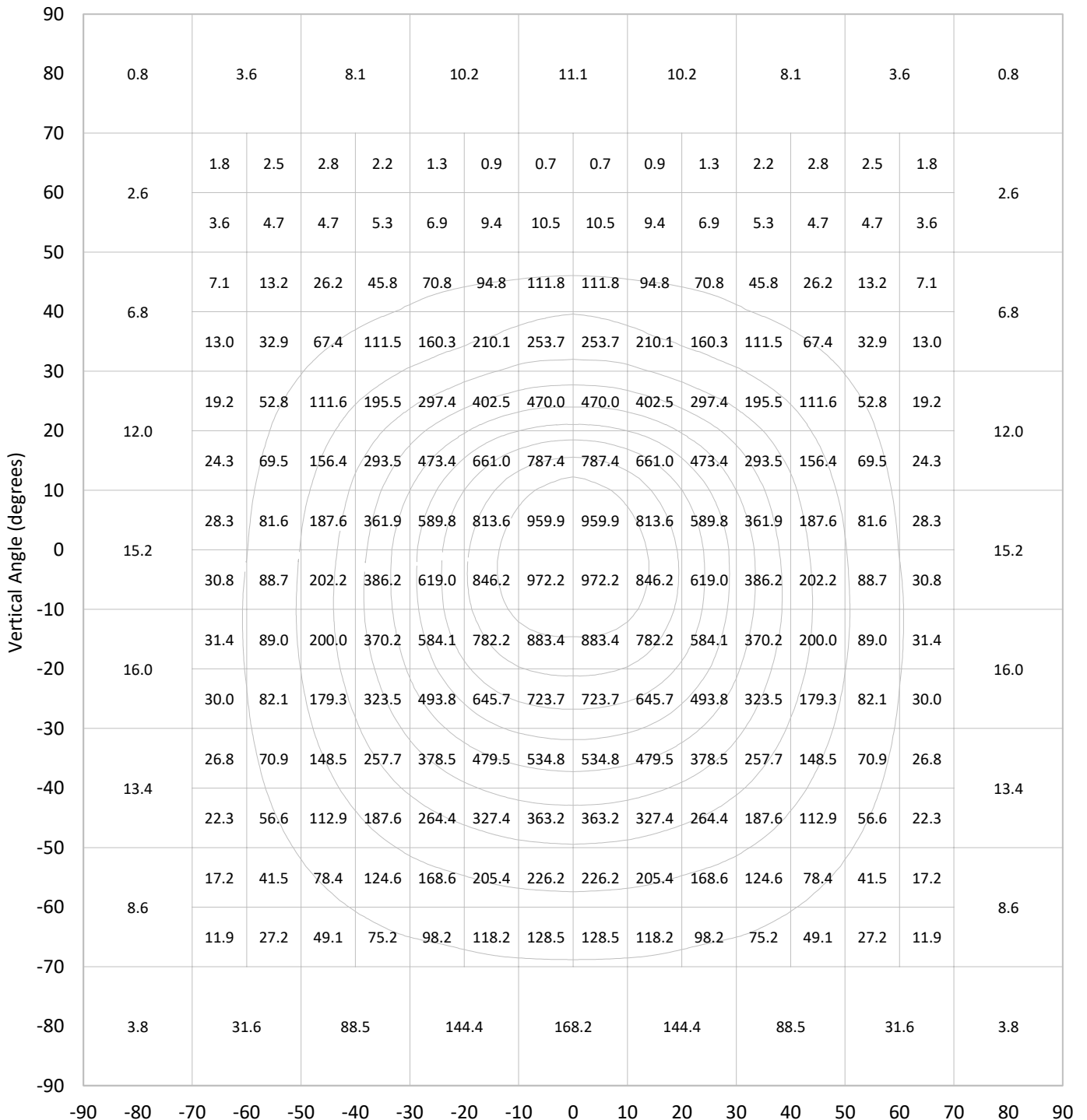
### Iso-Candela Plot





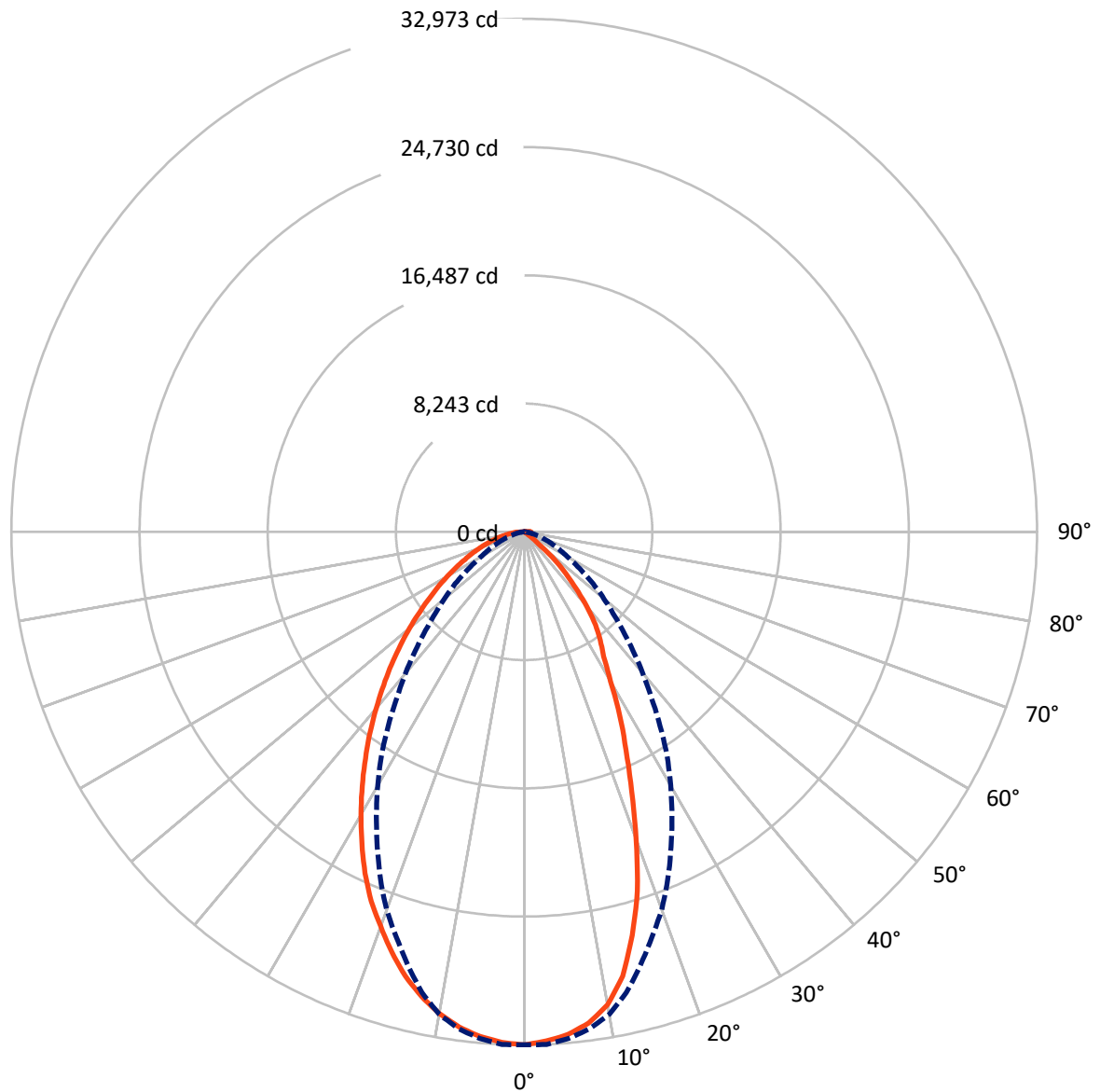
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### Lumen Table



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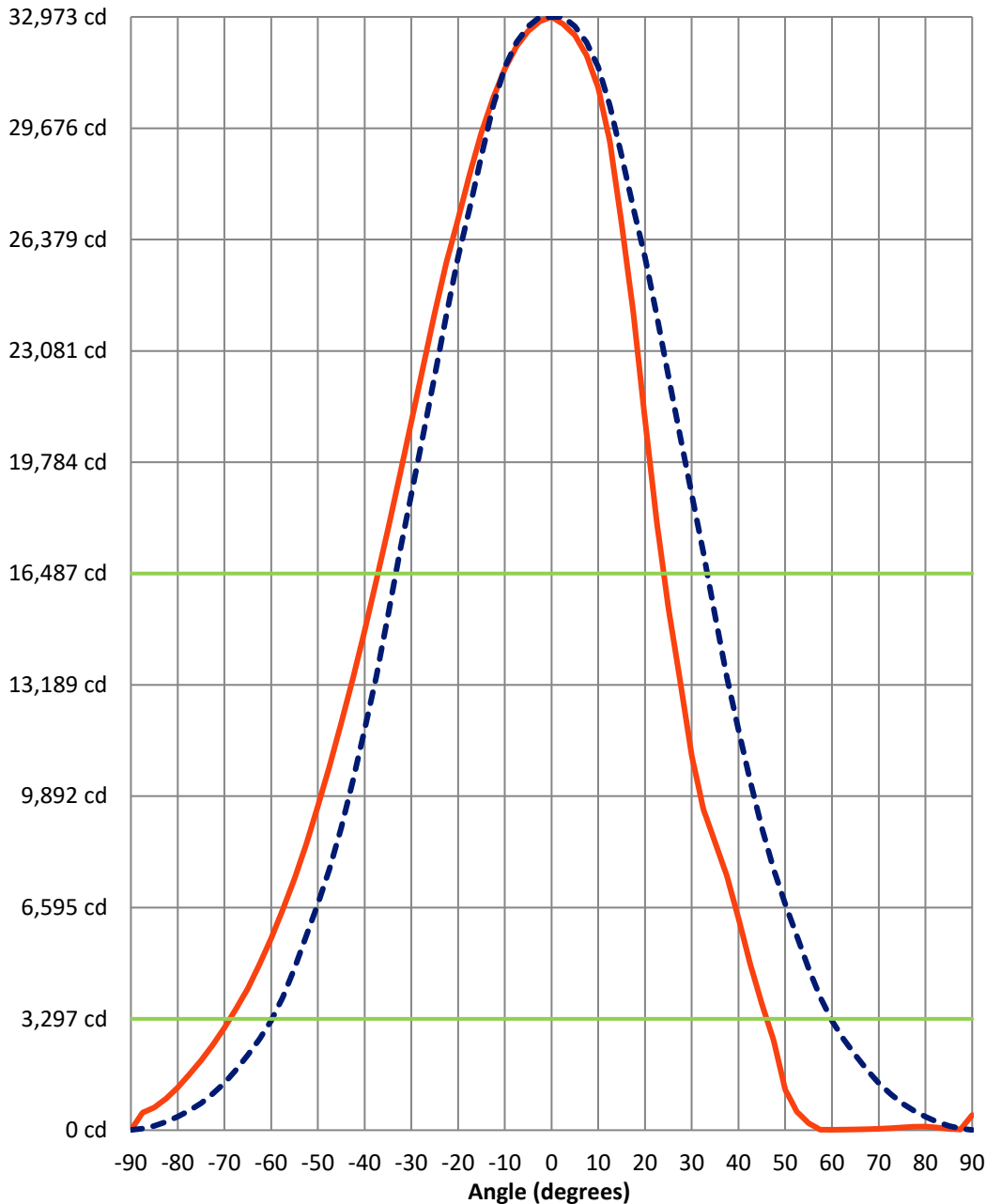
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 66.6°  
 V Angle: 61.2°  
 Lumens: 23817.5  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 41107  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 2759.6  
 Efficiency: 6.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.2	25.2	43.1	66.7	90.3	113.8	137.4	154.6	171.8	189.0	206.2
87.5°	7.2	9.1	10.4	11.3	12.0	12.6	13.0	13.0	12.8	12.5	12.0
85°	7.2	10.6	12.7	14.4	15.9	17.0	17.8	18.0	17.9	17.5	16.8
82.5°	7.2	12.0	14.9	17.5	19.7	21.4	22.6	23.1	23.5	25.2	26.5
80°	7.2	13.4	17.1	20.6	23.5	25.8	27.9	31.5	34.6	37.1	39.2
77.5°	7.2	14.8	19.4	23.7	27.3	31.9	37.2	41.6	45.6	49.1	50.6
75°	7.2	16.2	21.7	26.8	32.1	41.4	46.6	51.7	56.9	60.4	58.7
72.5°	7.2	17.6	23.9	29.9	41.0	51.0	56.2	63.0	70.7	72.2	67.8
70°	7.2	19.0	26.2	33.8	49.9	60.7	66.9	78.3	85.0	85.1	87.1
67.5°	7.2	20.4	28.5	41.3	58.9	70.6	83.3	94.0	100.4	109.1	109.8
65°	7.2	21.8	30.9	48.9	68.0	83.6	100.2	110.3	125.5	134.1	136.0
62.5°	7.2	23.2	33.2	56.4	77.1	99.7	117.5	132.9	151.4	161.8	168.7
60°	7.2	24.5	35.6	63.9	86.3	116.1	135.3	158.4	178.2	196.7	203.5
57.5°	7.2	25.8	41.0	71.4	100.4	132.7	159.8	184.8	211.9	233.3	244.2
55°	7.2	27.2	46.4	78.8	114.7	149.5	185.6	213.1	248.3	273.2	289.7
52.5°	7.2	28.5	51.8	86.2	129.1	167.6	211.9	248.7	286.0	320.4	338.6
50°	7.2	29.7	57.0	93.6	143.5	190.6	238.6	285.9	327.1	370.2	400.1
47.5°	7.2	31.0	62.1	101.8	158.0	213.8	266.7	323.9	375.2	422.5	468.1
45°	7.2	32.2	67.2	112.7	172.4	237.0	300.2	362.7	427.1	490.1	541.5
42.5°	7.2	33.4	72.1	123.4	186.7	260.2	334.1	406.6	480.7	561.7	640.2
40°	7.2	34.6	76.9	134.0	203.0	283.5	368.0	454.3	539.1	636.7	749.9
37.5°	7.2	35.8	81.5	144.3	221.1	306.7	402.1	502.7	604.4	717.0	867.4
35°	7.2	36.9	86.0	154.3	238.9	332.7	436.2	551.6	669.0	810.5	998.5
32.5°	7.2	37.9	90.3	163.9	256.3	359.7	472.1	600.8	733.0	900.1	1113.9
30°	7.2	39.0	94.5	173.1	273.3	386.3	512.0	651.2	796.0	985.8	1222.1
27.5°	7.2	40.0	98.5	181.9	288.8	412.4	551.4	703.7	861.9	1067.5	1323.0
25°	7.2	40.9	102.3	190.3	303.5	437.8	590.2	754.8	931.3	1150.7	1416.9
22.5°	7.2	41.8	105.9	198.2	317.3	461.3	628.2	804.3	996.9	1231.1	1515.6
20°	7.2	42.6	109.2	205.7	330.4	480.7	665.1	852.1	1058.7	1305.2	1608.7
17.5°	7.2	43.4	112.4	212.6	342.6	498.8	694.1	897.9	1116.6	1373.0	1695.9
15°	7.2	44.2	115.3	219.0	353.9	515.3	716.6	936.4	1170.4	1434.6	1776.7
12.5°	7.2	44.8	117.9	224.9	364.2	530.2	736.6	966.5	1217.8	1490.0	1850.9
10°	7.2	45.4	120.4	230.2	373.5	543.6	753.8	994.4	1260.4	1555.2	1926.4
7.5°	7.2	46.0	122.5	234.8	381.8	555.4	768.5	1019.9	1299.9	1619.7	2012.5
5°	7.2	46.5	124.4	238.9	389.0	565.4	780.5	1042.6	1335.8	1680.6	2091.3
2.5°	7.2	46.9	125.9	242.3	395.1	573.8	790.0	1062.0	1367.6	1736.6	2162.2
0°	7.2	47.2	127.2	245.1	400.0	580.5	796.9	1078.0	1394.9	1786.7	2224.7
-2.5°	7.2	48.1	129.2	248.8	406.5	591.3	816.1	1104.5	1428.9	1821.8	2264.2
-5°	7.2	49.0	130.8	251.8	411.8	600.3	832.5	1126.9	1457.6	1850.0	2294.7
-7.5°	7.2	49.7	132.1	254.1	415.8	607.3	845.8	1144.9	1480.8	1871.2	2316.0
-10°	7.2	50.4	133.1	255.7	418.5	612.3	855.8	1158.4	1498.3	1885.6	2328.1
-12.5°	7.2	51.0	133.8	256.5	419.8	615.2	862.4	1167.2	1509.8	1893.7	2337.6
-15°	7.2	51.5	134.2	256.5	419.6	615.9	865.2	1171.0	1513.7	1897.0	2339.9
-17.5°	7.2	51.9	134.2	255.7	418.0	614.3	864.0	1168.3	1509.3	1892.0	2331.2
-20°	7.2	52.2	133.9	254.2	414.9	610.4	859.3	1159.7	1498.3	1878.5	2311.4



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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°	7.2	52.5	133.2	251.8	410.3	604.1	851.7	1146.4	1480.4	1856.3	2280.1
-25°	7.2	52.6	132.3	248.6	404.2	597.9	840.8	1128.6	1455.6	1825.3	2237.2
-27.5°	7.2	52.7	131.0	244.6	396.6	590.2	826.6	1106.1	1423.8	1787.9	2195.2
-30°	7.2	52.6	129.3	239.8	387.6	580.0	809.0	1079.1	1390.4	1746.5	2143.2
-32.5°	7.2	52.4	127.3	234.2	379.5	567.1	788.2	1053.3	1354.6	1696.7	2080.8
-35°	7.2	52.2	125.0	227.8	369.7	551.7	768.7	1025.4	1313.6	1638.4	2008.1
-37.5°	7.2	51.8	122.4	220.5	358.3	535.2	747.9	993.6	1267.5	1571.9	1932.5
-40°	7.2	51.4	119.5	212.5	345.2	519.3	723.7	958.0	1216.2	1509.6	1853.0
-42.5°	7.2	50.9	116.2	204.2	333.1	501.2	696.2	918.8	1167.6	1447.8	1766.0
-45°	7.2	50.2	112.7	196.0	322.2	480.9	665.4	878.7	1118.4	1378.6	1673.9
-47.5°	7.2	49.5	108.8	186.9	310.0	458.6	631.5	838.6	1065.1	1302.2	1587.2
-50°	7.2	48.7	104.7	180.5	296.6	434.1	600.6	794.5	1005.4	1233.7	1491.7
-52.5°	7.2	47.8	100.2	174.6	281.9	407.7	568.1	746.6	945.0	1159.2	1389.9
-55°	7.2	46.8	95.5	168.0	266.0	385.9	533.1	696.0	882.0	1079.0	1298.3
-57.5°	7.2	45.7	90.6	160.7	249.0	363.8	495.7	651.0	814.9	999.5	1200.2
-60°	7.2	44.5	85.4	152.9	231.3	340.2	457.2	601.8	746.3	916.9	1099.2
-62.5°	7.2	43.3	82.7	144.5	219.0	315.1	425.7	549.3	684.1	829.9	999.4
-65°	7.2	41.9	79.8	135.5	205.8	288.7	392.5	498.1	618.9	750.7	894.8
-67.5°	7.2	40.5	76.8	126.0	191.9	265.3	357.5	454.1	550.8	671.2	798.0
-70°	7.2	39.1	73.5	116.0	177.1	245.1	321.1	408.4	496.2	588.6	702.7
-72.5°	7.2	37.5	70.2	109.8	161.7	223.9	292.1	361.2	440.2	522.8	608.9
-75°	7.2	35.9	66.7	104.3	145.7	201.9	263.2	321.5	382.5	455.5	531.5
-77.5°	7.2	34.2	63.0	98.5	135.9	179.0	233.3	283.7	335.8	390.6	452.1
-80°	7.2	32.5	59.2	92.6	127.3	163.3	202.5	245.0	289.2	335.5	384.0
-82.5°	7.2	30.7	55.3	86.4	118.4	151.4	185.3	212.6	241.7	279.4	318.8
-85°	7.2	28.9	51.3	80.0	109.3	139.2	169.7	193.6	217.5	241.7	266.2
-87.5°	7.2	27.1	47.3	73.4	99.9	126.6	153.7	174.2	194.8	215.5	236.4
-90°	7.2	7.7	8.2	8.2	8.2	8.2	8.2	8.0	7.7	7.5	7.2





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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	221.3	236.5	251.6	266.7	281.6	296.5	311.3	326.2	340.1	353.9	367.8
87.5°	12.3	12.6	12.8	13.1	12.5	11.9	11.3	10.5	11.4	12.3	13.3
85°	17.4	18.0	19.4	20.6	21.4	22.5	23.8	25.5	28.5	31.5	34.4
82.5°	28.9	30.8	32.2	33.1	35.9	39.4	43.2	46.8	50.1	53.4	56.4
80°	41.7	43.8	44.1	44.6	48.4	53.0	57.9	63.1	67.2	71.0	74.5
77.5°	51.1	52.3	53.6	55.1	60.0	66.7	73.5	80.3	85.3	89.3	93.0
75°	58.5	60.6	65.5	68.5	74.0	81.8	89.7	97.4	102.4	105.1	107.0
72.5°	70.5	77.6	81.9	83.5	88.8	98.1	106.5	113.9	117.7	117.2	114.8
70°	89.0	95.5	101.2	103.3	105.6	114.6	121.4	126.7	129.1	124.4	115.2
67.5°	108.9	119.0	124.2	124.5	121.2	129.0	135.1	134.3	130.3	120.1	108.0
65°	134.5	144.1	148.7	146.8	138.1	139.8	139.4	135.8	126.4	112.5	98.0
62.5°	163.1	171.7	175.4	170.5	154.6	147.7	143.8	134.5	120.2	106.5	92.8
60°	199.6	201.5	203.8	195.1	175.0	156.2	148.8	139.4	124.1	105.3	94.1
57.5°	240.5	233.9	234.9	225.1	202.1	168.4	165.0	153.1	140.2	115.5	104.0
55°	287.6	269.6	272.4	263.5	242.4	204.6	191.8	190.1	172.0	152.6	131.2
52.5°	344.2	319.6	319.1	317.7	306.2	273.7	244.4	264.8	276.2	254.6	268.4
50°	407.7	395.5	377.2	398.5	405.3	388.1	362.3	419.3	487.9	519.3	518.5
47.5°	492.1	484.9	469.0	507.7	556.0	600.4	611.0	714.0	817.9	932.8	946.4
45°	591.5	609.8	600.7	682.9	786.4	905.6	994.1	1094.0	1330.6	1467.8	1671.1
42.5°	701.9	755.2	803.7	881.3	1125.5	1277.2	1410.8	1661.3	1896.7	2095.7	2305.7
40°	843.9	914.0	1020.0	1231.1	1494.5	1670.0	1899.9	2185.4	2423.8	2648.4	2863.5
37.5°	997.8	1114.9	1258.6	1561.2	1860.9	2080.8	2362.3	2645.5	2916.4	3168.5	3469.2
35°	1160.6	1316.6	1542.8	1859.0	2173.5	2479.8	2789.6	3105.0	3414.2	3759.7	4097.8
32.5°	1337.7	1518.5	1804.1	2139.8	2491.8	2847.7	3207.6	3575.8	3968.9	4371.6	4730.4
30°	1497.5	1743.4	2047.3	2411.5	2808.8	3217.5	3637.4	4061.3	4543.8	5020.6	5450.9
27.5°	1619.6	1949.4	2288.8	2691.4	3126.6	3582.4	4069.0	4594.1	5155.9	5702.5	6213.4
25°	1736.7	2107.9	2520.4	2971.1	3454.6	3967.1	4511.4	5099.3	5788.7	6429.1	7066.3
22.5°	1859.5	2267.6	2712.7	3243.7	3773.9	4357.2	4961.0	5637.7	6399.6	7156.6	7931.0
20°	1990.0	2432.9	2902.6	3462.5	4072.6	4741.5	5384.3	6171.8	7019.4	7899.1	8843.7
17.5°	2117.2	2584.8	3086.6	3676.7	4338.0	5087.2	5792.3	6688.9	7628.1	8634.2	9702.7
15°	2239.9	2723.2	3254.4	3873.7	4594.7	5390.0	6214.8	7197.1	8247.5	9358.2	10480.3
12.5°	2356.4	2848.2	3405.7	4052.6	4834.4	5684.3	6592.8	7625.9	8776.4	10004.2	11227.3
10°	2465.4	2959.7	3540.1	4212.4	5054.3	5964.9	6929.3	8009.3	9205.5	10470.5	11834.7
7.5°	2548.0	3052.4	3658.6	4352.2	5251.3	6226.4	7223.8	8345.3	9568.2	10885.7	12352.2
5°	2611.3	3127.7	3768.3	4513.7	5440.7	6442.8	7466.1	8631.7	9865.4	11243.0	12798.9
2.5°	2659.3	3191.3	3862.2	4663.6	5610.3	6590.2	7624.1	8819.7	10132.8	11576.6	13162.0
0°	2694.4	3242.2	3938.6	4791.9	5747.9	6698.7	7740.8	8956.2	10350.1	11858.8	13430.2
-2.5°	2754.0	3332.3	4045.4	4893.6	5833.8	6804.9	7891.1	9146.3	10556.2	12036.9	13661.4
-5°	2801.7	3406.5	4131.7	4970.0	5889.7	6874.4	7994.7	9278.5	10691.1	12156.8	13780.7
-7.5°	2836.2	3462.6	4196.5	5020.8	5927.0	6930.6	8067.0	9344.3	10741.5	12228.5	13799.4
-10°	2856.6	3489.1	4216.9	5035.8	5947.2	6960.9	8094.8	9353.9	10726.4	12211.6	13748.3
-12.5°	2864.4	3488.5	4210.6	5023.6	5931.7	6946.4	8072.7	9308.3	10647.4	12103.1	13618.0
-15°	2859.3	3470.7	4181.3	4983.7	5879.5	6885.5	8000.5	9208.4	10500.5	11882.1	13354.2
-17.5°	2841.4	3435.4	4128.6	4916.0	5789.6	6776.9	7871.7	9023.9	10289.6	11626.8	13019.2
-20°	2810.7	3382.8	4052.4	4820.4	5667.0	6634.4	7689.8	8805.1	10021.0	11322.2	12643.8



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2767.2	3312.9	3963.4	4712.7	5549.4	6472.3	7472.6	8541.9	9678.7	10958.7	12218.2
-25°	2717.3	3251.1	3870.3	4595.4	5400.7	6282.5	7218.2	8240.8	9313.6	10511.6	11730.8
-27.5°	2660.3	3176.1	3771.2	4454.8	5218.2	6071.6	6966.2	7926.0	8942.0	10019.1	11188.1
-30°	2589.9	3090.8	3652.4	4300.9	5033.4	5841.9	6702.2	7569.8	8532.1	9547.7	10619.2
-32.5°	2506.4	2987.7	3533.8	4151.5	4832.2	5576.1	6394.1	7219.1	8106.9	9046.9	10039.9
-35°	2417.1	2883.1	3401.7	3981.3	4611.5	5308.6	6055.7	6840.5	7657.0	8540.3	9413.8
-37.5°	2327.2	2763.5	3247.5	3801.0	4404.8	5024.1	5696.0	6442.6	7207.8	7988.7	8790.9
-40°	2226.0	2629.2	3094.0	3610.1	4156.8	4731.4	5361.0	6027.4	6738.8	7443.3	8162.4
-42.5°	2115.8	2505.2	2931.4	3391.9	3903.5	4438.2	5003.1	5626.8	6246.8	6886.6	7550.5
-45°	2011.2	2369.8	2758.3	3186.3	3638.5	4133.0	4660.2	5205.3	5763.5	6329.0	6933.3
-47.5°	1898.8	2229.2	2595.1	2966.1	3381.6	3829.2	4303.2	4793.7	5277.2	5795.7	6312.3
-50°	1781.8	2097.2	2412.5	2757.3	3126.3	3528.0	3958.0	4380.9	4823.1	5272.0	5737.7
-52.5°	1664.4	1957.3	2242.9	2544.8	2878.6	3235.3	3610.0	3987.9	4380.7	4775.9	5175.0
-55°	1537.7	1809.4	2068.6	2341.3	2634.0	2953.6	3270.8	3610.8	3951.3	4312.9	4640.8
-57.5°	1417.8	1649.5	1889.4	2138.5	2400.5	2672.6	2954.3	3238.7	3548.7	3860.5	4141.4
-60°	1299.6	1495.7	1705.2	1932.9	2167.4	2408.4	2641.9	2895.7	3157.9	3413.3	3670.4
-62.5°	1177.1	1350.7	1529.7	1723.0	1936.4	2143.9	2354.7	2568.6	2782.2	3008.8	3226.1
-65°	1056.1	1204.2	1363.0	1530.4	1701.9	1889.5	2074.8	2255.5	2446.3	2631.7	2811.7
-67.5°	929.7	1065.4	1201.3	1340.9	1494.3	1647.4	1801.5	1967.5	2128.6	2280.1	2432.8
-70°	816.9	926.0	1046.4	1169.5	1291.6	1417.2	1554.0	1691.2	1825.9	1955.0	2087.2
-72.5°	704.7	802.6	901.0	999.6	1105.7	1211.4	1318.3	1425.9	1538.5	1651.2	1760.7
-75°	604.7	678.1	763.6	850.6	933.5	1014.3	1097.0	1188.5	1278.5	1366.9	1454.4
-77.5°	513.6	575.5	639.6	705.6	768.6	836.4	904.5	972.7	1039.8	1105.6	1169.9
-80°	427.8	471.3	522.9	576.3	626.4	675.8	725.2	774.5	824.2	876.3	930.0
-82.5°	354.1	389.6	425.4	461.6	494.9	527.4	561.1	599.5	638.9	678.0	716.6
-85°	286.8	307.1	334.6	362.4	389.0	415.2	441.1	466.6	492.8	518.6	543.9
-87.5°	254.2	271.9	289.6	307.1	324.0	340.8	357.4	373.9	390.7	407.5	424.3
-90°	7.2	7.2	7.2	7.2	7.0	6.7	6.5	6.2	5.9	5.7	5.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	381.6	386.0	390.3	394.7	399.0	409.3	419.5	429.8	440.0	442.3	444.6
87.5°	14.3	14.4	14.4	14.4	14.3	16.6	19.0	21.4	23.9	23.6	23.3
85°	37.3	37.8	38.1	38.1	37.9	41.1	44.3	47.4	50.4	48.3	46.0
82.5°	59.4	60.5	61.5	62.6	63.7	67.0	70.2	73.3	76.2	77.1	78.0
80°	77.8	79.8	81.3	82.5	83.4	86.2	89.2	92.0	94.7	97.6	100.5
77.5°	95.6	96.2	95.9	94.9	93.5	93.9	94.5	94.8	94.9	96.4	98.1
75°	107.9	106.5	102.3	97.4	91.9	88.6	86.1	83.5	80.9	80.4	80.6
72.5°	110.6	105.0	98.1	89.5	81.0	75.1	71.1	67.2	63.6	61.8	60.7
70°	104.8	94.0	84.7	75.4	66.4	59.8	55.8	52.1	48.8	46.7	45.2
67.5°	94.3	81.0	71.2	61.7	52.9	46.0	42.5	39.3	36.4	34.2	32.7
65°	83.7	69.6	60.1	51.0	42.1	35.3	32.6	30.0	27.4	25.5	24.5
62.5°	77.8	63.0	53.2	45.2	37.2	29.3	26.5	23.8	21.1	19.1	18.1
60°	80.0	63.1	51.2	43.8	35.4	26.3	22.9	20.4	17.7	15.2	14.3
57.5°	92.5	74.1	56.3	53.4	44.9	31.5	32.8	38.2	34.1	23.5	22.3
55°	141.5	136.9	89.6	116.0	134.9	127.1	118.7	157.1	175.8	176.8	194.2
52.5°	281.2	314.4	302.0	316.3	394.4	426.0	421.8	490.5	526.1	521.2	539.8
50°	592.0	659.9	743.5	757.0	887.8	978.6	1000.5	1080.0	1168.4	1202.2	1240.2
47.5°	1155.3	1314.5	1395.2	1486.3	1637.0	1801.9	1929.7	2044.3	2168.4	2253.2	2355.6
45°	1882.0	1994.4	2135.0	2346.5	2576.4	2791.7	2994.0	3178.3	3299.9	3408.3	3523.4
42.5°	2479.7	2659.4	2895.1	3210.7	3537.7	3758.7	3925.1	4102.7	4292.7	4473.3	4639.7
40°	3091.8	3300.0	3674.0	4031.6	4275.6	4488.9	4716.7	4957.8	5206.1	5442.9	5678.5
37.5°	3747.8	4055.5	4383.0	4695.5	4953.7	5155.6	5467.7	5734.8	5983.6	6336.3	6659.8
35°	4445.9	4780.3	5061.7	5419.1	5707.8	5956.7	6283.4	6619.7	6835.0	7318.9	7737.7
32.5°	5140.4	5530.1	5905.3	6244.7	6603.0	6986.8	7304.7	7766.0	8117.0	8579.8	9034.7
30°	5864.0	6398.2	6866.6	7239.1	7727.1	8223.3	8669.3	9212.6	9730.0	10160.6	10642.8
27.5°	6777.1	7371.1	7942.3	8516.3	9037.7	9657.3	10367.2	10941.9	11604.2	12073.9	12578.2
25°	7745.9	8453.6	9213.2	9953.1	10637.1	11438.6	12243.5	12945.6	13632.1	14173.3	14712.2
22.5°	8799.4	9655.1	10559.2	11490.7	12415.3	13293.4	14157.5	15026.3	15817.6	16561.4	17079.5
20°	9869.3	10819.5	11917.4	13039.7	14104.3	15095.6	16133.8	17232.6	18238.0	19099.9	19738.2
17.5°	10834.4	12026.3	13233.8	14465.2	15665.9	16890.9	18179.1	19471.4	20661.9	21671.2	22518.7
15°	11703.8	13054.3	14452.2	15841.5	17222.2	18632.6	20137.8	21530.3	22864.6	24022.3	25012.9
12.5°	12561.2	14003.6	15502.1	17059.8	18696.7	20223.9	21756.3	23257.8	24656.1	26001.7	26994.3
10°	13320.0	14877.4	16481.8	18151.0	19846.4	21503.1	23118.4	24683.6	26057.5	27328.1	28528.8
7.5°	13938.3	15608.6	17320.9	19076.5	20821.4	22499.1	24144.2	25708.3	27102.8	28404.9	29632.8
5°	14471.6	16243.1	18010.3	19759.9	21515.6	23255.7	24916.6	26458.8	27911.4	29264.5	30495.0
2.5°	14906.8	16753.9	18544.5	20267.7	22016.3	23797.5	25500.4	26990.3	28508.6	29884.8	31096.1
0°	15233.3	17098.0	18831.4	20569.9	22340.2	24141.3	25854.1	27313.7	28859.4	30330.2	31482.0
-2.5°	15411.9	17167.1	18892.4	20636.7	22460.3	24313.0	26023.5	27596.7	29133.5	30512.2	31583.1
-5°	15474.0	17200.6	18919.7	20695.4	22503.2	24326.9	26031.5	27608.8	29084.6	30374.2	31350.9
-7.5°	15432.3	17142.0	18843.8	20602.1	22398.5	24200.3	25877.6	27386.4	28807.6	30029.1	30961.1
-10°	15306.6	16962.2	18664.7	20394.1	22194.3	23973.2	25616.9	26978.0	28335.0	29480.9	30362.2
-12.5°	15098.9	16684.0	18363.1	20054.1	21820.3	23530.3	25062.0	26417.3	27629.8	28790.5	29561.9
-15°	14804.1	16332.4	17937.7	19593.6	21266.9	22921.1	24414.6	25724.5	26847.8	27763.5	28575.8
-17.5°	14434.4	15909.0	17447.2	19034.0	20587.9	22161.6	23545.7	24858.5	25939.0	26754.1	27384.5
-20°	13979.3	15410.4	16881.4	18396.4	19840.1	21178.6	22512.8	23733.5	24801.6	25598.6	26204.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13498.9	14849.1	16242.7	17608.7	18923.5	20181.8	21390.2	22510.5	23526.1	24279.6	24859.4
-25°	12952.4	14215.1	15503.7	16737.3	17938.1	19109.6	20204.9	21243.0	22129.5	22862.6	23400.9
-27.5°	12353.8	13529.5	14692.6	15839.9	16954.0	17966.7	18974.5	19911.6	20691.3	21365.5	21842.1
-30°	11699.8	12775.0	13865.0	14940.5	15904.3	16816.5	17711.9	18525.4	19240.0	19832.0	20259.5
-32.5°	11009.9	11992.2	13003.2	13975.8	14820.9	15643.9	16424.7	17137.8	17793.1	18316.2	18701.7
-35°	10296.7	11206.7	12114.7	12955.6	13743.3	14475.4	15148.2	15780.2	16323.1	16799.9	17177.9
-37.5°	9595.2	10414.9	11202.9	11937.1	12664.9	13336.4	13924.0	14478.6	14972.1	15369.8	15701.2
-40°	8907.2	9632.8	10303.6	10957.2	11607.5	12175.9	12709.5	13187.8	13624.6	14004.5	14298.9
-42.5°	8223.3	8848.1	9427.2	10015.3	10577.6	11070.5	11535.1	11949.4	12328.5	12668.9	12954.4
-45°	7536.9	8071.3	8586.6	9103.7	9570.5	10009.6	10413.4	10777.5	11116.1	11402.8	11636.8
-47.5°	6835.8	7309.9	7778.0	8226.1	8613.4	8992.7	9340.5	9667.5	9972.6	10230.4	10437.2
-50°	6166.4	6585.4	7004.6	7375.0	7700.7	8016.6	8310.8	8626.5	8909.0	9143.9	9314.8
-52.5°	5538.0	5916.9	6277.2	6580.5	6855.8	7102.4	7328.5	7621.8	7887.6	8118.3	8269.8
-55°	4965.6	5289.9	5598.8	5849.4	6079.3	6285.0	6490.1	6725.8	6940.5	7132.4	7259.1
-57.5°	4426.9	4701.7	4958.7	5169.7	5361.5	5533.4	5723.9	5921.0	6097.0	6248.5	6350.5
-60°	3916.1	4150.1	4363.2	4536.8	4696.1	4840.9	5022.2	5194.2	5346.4	5469.9	5546.0
-62.5°	3434.3	3644.1	3809.9	3949.4	4076.7	4198.7	4357.1	4505.7	4642.9	4752.5	4816.3
-65°	2993.2	3176.9	3300.1	3410.5	3510.8	3620.7	3755.4	3876.3	3983.5	4064.9	4120.4
-67.5°	2591.0	2736.4	2833.5	2921.3	3007.2	3101.2	3215.6	3321.1	3417.5	3484.6	3526.0
-70°	2216.4	2328.5	2407.2	2481.9	2553.6	2634.2	2727.9	2815.1	2895.6	2947.7	2980.7
-72.5°	1866.9	1952.3	2017.4	2081.7	2139.5	2208.7	2285.0	2356.6	2423.0	2462.1	2487.3
-75°	1540.9	1606.3	1659.6	1708.9	1754.2	1812.3	1874.2	1932.3	1986.3	2016.2	2035.5
-77.5°	1238.5	1288.6	1328.7	1365.5	1398.8	1444.9	1492.5	1537.3	1579.0	1605.6	1626.9
-80°	982.4	1012.7	1037.4	1060.4	1081.6	1116.0	1150.9	1183.9	1214.7	1232.1	1245.8
-82.5°	754.6	773.1	787.7	800.6	811.7	835.7	859.6	882.3	903.7	914.9	924.4
-85°	568.8	578.7	587.1	594.5	601.0	617.7	634.2	650.1	665.4	668.7	671.0
-87.5°	441.1	446.4	451.5	456.5	461.2	473.6	485.9	498.1	510.3	512.4	514.3
-90°	5.1	4.9	4.6	4.4	4.1	3.9	3.6	3.4	3.1	2.9	2.6



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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°	446.9	449.2	447.7	446.2	447.7	449.2	446.9	444.6	442.3	440.0	429.8
87.5°	22.9	22.5	22.6	22.6	22.6	22.5	22.9	23.3	23.6	23.9	21.4
85°	43.5	40.9	38.9	36.9	38.9	40.9	43.5	46.0	48.3	50.4	47.4
82.5°	78.8	79.5	79.4	79.0	79.4	79.5	78.8	78.0	77.1	76.2	73.3
80°	103.4	106.2	107.1	107.7	107.1	106.2	103.4	100.5	97.6	94.7	92.0
77.5°	99.8	101.5	102.1	102.6	102.1	101.5	99.8	98.1	96.4	94.9	94.8
75°	80.9	81.4	81.1	81.0	81.1	81.4	80.9	80.6	80.4	80.9	83.5
72.5°	59.8	59.1	58.7	58.5	58.7	59.1	59.8	60.7	61.8	63.6	67.2
70°	43.8	42.7	41.7	41.0	41.7	42.7	43.8	45.2	46.7	48.8	52.1
67.5°	31.4	30.2	29.4	28.7	29.4	30.2	31.4	32.7	34.2	36.4	39.3
65°	23.6	22.9	22.2	21.5	22.2	22.9	23.6	24.5	25.5	27.4	30.0
62.5°	17.4	16.7	16.5	16.4	16.5	16.7	17.4	18.1	19.1	21.1	23.8
60°	13.5	12.7	12.4	12.3	12.4	12.7	13.5	14.3	15.2	17.7	20.4
57.5°	20.2	17.3	15.5	14.4	15.5	17.3	20.2	22.3	23.5	34.1	38.2
55°	203.4	204.0	208.1	212.3	208.1	204.0	203.4	194.2	176.8	175.8	157.1
52.5°	554.1	552.3	547.3	537.5	547.3	552.3	554.1	539.8	521.2	526.1	490.5
50°	1263.1	1245.2	1206.6	1151.8	1206.6	1245.2	1263.1	1240.2	1202.2	1168.4	1080.0
47.5°	2493.5	2596.6	2668.0	2699.6	2668.0	2596.6	2493.5	2355.6	2253.2	2168.4	2044.3
45°	3643.1	3704.3	3740.0	3768.3	3740.0	3704.3	3643.1	3523.4	3408.3	3299.9	3178.3
42.5°	4781.4	4878.4	4926.1	4918.1	4926.1	4878.4	4781.4	4639.7	4473.3	4292.7	4102.7
40°	5904.8	6107.8	6274.4	6394.0	6274.4	6107.8	5904.8	5678.5	5442.9	5206.1	4957.8
37.5°	6979.8	7282.0	7537.4	7722.3	7537.4	7282.0	6979.8	6659.8	6336.3	5983.6	5734.8
35°	8080.4	8347.0	8521.9	8598.2	8521.9	8347.0	8080.4	7737.7	7318.9	6835.0	6619.7
32.5°	9324.8	9473.0	9504.4	9583.9	9504.4	9473.0	9324.8	9034.7	8579.8	8117.0	7766.0
30°	10936.5	11090.4	11094.1	11194.2	11094.1	11090.4	10936.5	10642.8	10160.6	9730.0	9212.6
27.5°	12975.7	13234.9	13319.1	13407.6	13319.1	13234.9	12975.7	12578.2	12073.9	11604.2	10941.9
25°	15159.3	15401.0	15478.4	15448.7	15478.4	15401.0	15159.3	14712.2	14173.3	13632.1	12945.6
22.5°	17610.2	17923.5	18037.5	17980.1	18037.5	17923.5	17610.2	17079.5	16561.4	15817.6	15026.3
20°	20353.4	20805.6	21044.6	21152.5	21044.6	20805.6	20353.4	19738.2	19099.9	18238.0	17232.6
17.5°	23240.7	23907.1	24213.1	24303.3	24213.1	23907.1	23240.7	22518.7	21671.2	20661.9	19471.4
15°	25867.4	26449.3	26846.1	27050.1	26846.1	26449.3	25867.4	25012.9	24022.3	22864.6	21530.3
12.5°	27898.5	28640.1	29258.2	29589.7	29258.2	28640.1	27898.5	26994.3	26001.7	24656.1	23257.8
10°	29554.0	30302.8	30864.9	31137.4	30864.9	30302.8	29554.0	28528.8	27328.1	26057.5	24683.6
7.5°	30699.5	31395.4	31831.7	32010.2	31831.7	31395.4	30699.5	29632.8	28404.9	27102.8	25708.3
5°	31439.8	32105.2	32427.8	32543.6	32427.8	32105.2	31439.8	30495.0	29264.5	27911.4	26458.8
2.5°	31972.9	32499.4	32757.7	32774.4	32757.7	32499.4	31972.9	31096.1	29884.8	28508.6	26990.3
0°	32216.4	32690.3	32973.3	32968.2	32973.3	32690.3	32216.4	31482.0	30330.2	28859.4	27313.7
-2.5°	32228.2	32640.5	32841.6	32728.2	32841.6	32640.5	32228.2	31583.1	30512.2	29133.5	27596.7
-5°	31998.4	32401.8	32552.7	32517.9	32552.7	32401.8	31998.4	31350.9	30374.2	29084.6	27608.8
-7.5°	31585.7	31943.7	32097.6	32102.5	32097.6	31943.7	31585.7	30961.1	30029.1	28807.6	27386.4
-10°	30956.4	31255.5	31431.8	31381.5	31431.8	31255.5	30956.4	30362.2	29480.9	28335.0	26978.0
-12.5°	30123.9	30419.1	30568.6	30538.4	30568.6	30419.1	30123.9	29561.9	28790.5	27629.8	26417.3
-15°	29128.1	29408.7	29548.7	29535.3	29548.7	29408.7	29128.1	28575.8	27763.5	26847.8	25724.5
-17.5°	27895.2	28176.4	28319.8	28339.4	28319.8	28176.4	27895.2	27384.5	26754.1	25939.0	24858.5
-20°	26603.1	26851.2	26982.5	26984.4	26982.5	26851.2	26603.1	26204.4	25598.6	24801.6	23733.5



REPORT NUMBER: P701458 (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°	25263.8	25542.3	25698.2	25674.7	25698.2	25542.3	25263.8	24859.4	24279.6	23526.1	22510.5
-25°	23770.9	24050.1	24201.7	24195.6	24201.7	24050.1	23770.9	23400.9	22862.6	22129.5	21243.0
-27.5°	22177.3	22445.6	22591.8	22609.9	22591.8	22445.6	22177.3	21842.1	21365.5	20691.3	19911.6
-30°	20571.9	20836.5	20979.7	20991.4	20979.7	20836.5	20571.9	20259.5	19832.0	19240.0	18525.4
-32.5°	18998.8	19237.7	19370.1	19384.2	19370.1	19237.7	18998.8	18701.7	18316.2	17793.1	17137.8
-35°	17464.2	17674.0	17792.8	17831.3	17792.8	17674.0	17464.2	17177.9	16799.9	16323.1	15780.2
-37.5°	15970.5	16160.3	16275.0	16345.1	16275.0	16160.3	15970.5	15701.2	15369.8	14972.1	14478.6
-40°	14527.8	14694.1	14785.5	14787.1	14785.5	14694.1	14527.8	14298.9	14004.5	13624.6	13187.8
-42.5°	13165.9	13305.8	13375.7	13376.8	13375.7	13305.8	13165.9	12954.4	12668.9	12328.5	11949.4
-45°	11825.3	11962.2	12059.1	12120.4	12059.1	11962.2	11825.3	11636.8	11402.8	11116.1	10777.5
-47.5°	10594.9	10707.1	10784.1	10826.0	10784.1	10707.1	10594.9	10437.2	10230.4	9972.6	9667.5
-50°	9440.0	9529.7	9595.3	9634.1	9595.3	9529.7	9440.0	9314.8	9143.9	8909.0	8626.5
-52.5°	8372.6	8438.1	8461.7	8446.4	8461.7	8438.1	8372.6	8269.8	8118.3	7887.6	7621.8
-55°	7354.0	7419.3	7445.3	7436.1	7445.3	7419.3	7354.0	7259.1	7132.4	6940.5	6725.8
-57.5°	6430.7	6488.6	6534.9	6563.3	6534.9	6488.6	6430.7	6350.5	6248.5	6097.0	5921.0
-60°	5606.0	5648.8	5677.9	5689.4	5677.9	5648.8	5606.0	5546.0	5469.9	5346.4	5194.2
-62.5°	4861.1	4887.7	4908.4	4917.1	4908.4	4887.7	4861.1	4816.3	4752.5	4642.9	4505.7
-65°	4164.6	4197.1	4193.2	4170.4	4193.2	4197.1	4164.6	4120.4	4064.9	3983.5	3876.3
-67.5°	3557.4	3578.5	3596.7	3606.3	3596.7	3578.5	3557.4	3526.0	3484.6	3417.5	3321.1
-70°	3006.0	3023.3	3029.8	3027.8	3029.8	3023.3	3006.0	2980.7	2947.7	2895.6	2815.1
-72.5°	2506.2	2518.9	2521.4	2517.0	2521.4	2518.9	2506.2	2487.3	2462.1	2423.0	2356.6
-75°	2049.2	2057.6	2061.8	2061.6	2061.8	2057.6	2049.2	2035.5	2016.2	1986.3	1932.3
-77.5°	1644.7	1658.8	1652.8	1642.1	1652.8	1658.8	1644.7	1626.9	1605.6	1579.0	1537.3
-80°	1257.0	1265.7	1261.0	1253.4	1261.0	1265.7	1257.0	1245.8	1232.1	1214.7	1183.9
-82.5°	932.6	939.5	931.7	922.1	931.7	939.5	932.6	924.4	914.9	903.7	882.3
-85°	672.7	673.7	673.1	671.8	673.1	673.7	672.7	671.0	668.7	665.4	650.1
-87.5°	516.1	517.7	516.4	514.9	516.4	517.7	516.1	514.3	512.4	510.3	498.1
-90°	2.4	2.1	2.6	3.1	2.6	2.1	2.4	2.6	2.9	3.1	3.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	419.5	409.3	399.0	394.7	390.3	386.0	381.6	367.8	353.9	340.1	326.2
87.5°	19.0	16.6	14.3	14.4	14.4	14.4	14.3	13.3	12.3	11.4	10.5
85°	44.3	41.1	37.9	38.1	38.1	37.8	37.3	34.4	31.5	28.5	25.5
82.5°	70.2	67.0	63.7	62.6	61.5	60.5	59.4	56.4	53.4	50.1	46.8
80°	89.2	86.2	83.4	82.5	81.3	79.8	77.8	74.5	71.0	67.2	63.1
77.5°	94.5	93.9	93.5	94.9	95.9	96.2	95.6	93.0	89.3	85.3	80.3
75°	86.1	88.6	91.9	97.4	102.3	106.5	107.9	107.0	105.1	102.4	97.4
72.5°	71.1	75.1	81.0	89.5	98.1	105.0	110.6	114.8	117.2	117.7	113.9
70°	55.8	59.8	66.4	75.4	84.7	94.0	104.8	115.2	124.4	129.1	126.7
67.5°	42.5	46.0	52.9	61.7	71.2	81.0	94.3	108.0	120.1	130.3	134.3
65°	32.6	35.3	42.1	51.0	60.1	69.6	83.7	98.0	112.5	126.4	135.8
62.5°	26.5	29.3	37.2	45.2	53.2	63.0	77.8	92.8	106.5	120.2	134.5
60°	22.9	26.3	35.4	43.8	51.2	63.1	80.0	94.1	105.3	124.1	139.4
57.5°	32.8	31.5	44.9	53.4	56.3	74.1	92.5	104.0	115.5	140.2	153.1
55°	118.7	127.1	134.9	116.0	89.6	136.9	141.5	131.2	152.6	172.0	190.1
52.5°	421.8	426.0	394.4	316.3	302.0	314.4	281.2	268.4	254.6	276.2	264.8
50°	1000.5	978.6	887.8	757.0	743.5	659.9	592.0	518.5	519.3	487.9	419.3
47.5°	1929.7	1801.9	1637.0	1486.3	1395.2	1314.5	1155.3	946.4	932.8	817.9	714.0
45°	2994.0	2791.7	2576.4	2346.5	2135.0	1994.4	1882.0	1671.1	1467.8	1330.6	1094.0
42.5°	3925.1	3758.7	3537.7	3210.7	2895.1	2659.4	2479.7	2305.7	2095.7	1896.7	1661.3
40°	4716.7	4488.9	4275.6	4031.6	3674.0	3300.0	3091.8	2863.5	2648.4	2423.8	2185.4
37.5°	5467.7	5155.6	4953.7	4695.5	4383.0	4055.5	3747.8	3469.2	3168.5	2916.4	2645.5
35°	6283.4	5956.7	5707.8	5419.1	5061.7	4780.3	4445.9	4097.8	3759.7	3414.2	3105.0
32.5°	7304.7	6986.8	6603.0	6244.7	5905.3	5530.1	5140.4	4730.4	4371.6	3968.9	3575.8
30°	8669.3	8223.3	7727.1	7239.1	6866.6	6398.2	5864.0	5450.9	5020.6	4543.8	4061.3
27.5°	10367.2	9657.3	9037.7	8516.3	7942.3	7371.1	6777.1	6213.4	5702.5	5155.9	4594.1
25°	12243.5	11438.6	10637.1	9953.1	9213.2	8453.6	7745.9	7066.3	6429.1	5788.7	5099.3
22.5°	14157.5	13293.4	12415.3	11490.7	10559.2	9655.1	8799.4	7931.0	7156.6	6399.6	5637.7
20°	16133.8	15095.6	14104.3	13039.7	11917.4	10819.5	9869.3	8843.7	7899.1	7019.4	6171.8
17.5°	18179.1	16890.9	15665.9	14465.2	13233.8	12026.3	10834.4	9702.7	8634.2	7628.1	6688.9
15°	20137.8	18632.6	17222.2	15841.5	14452.2	13054.3	11703.8	10480.3	9358.2	8247.5	7197.1
12.5°	21756.3	20223.9	18696.7	17059.8	15502.1	14003.6	12561.2	11227.3	10004.2	8776.4	7625.9
10°	23118.4	21503.1	19846.4	18151.0	16481.8	14877.4	13320.0	11834.7	10470.5	9205.5	8009.3
7.5°	24144.2	22499.1	20821.4	19076.5	17320.9	15608.6	13938.3	12352.2	10885.7	9568.2	8345.3
5°	24916.6	23255.7	21515.6	19759.9	18010.3	16243.1	14471.6	12798.9	11243.0	9865.4	8631.7
2.5°	25500.4	23797.5	22016.3	20267.7	18544.5	16753.9	14906.8	13162.0	11576.6	10132.8	8819.7
0°	25854.1	24141.3	22340.2	20569.9	18831.4	17098.0	15233.3	13430.2	11858.8	10350.1	8956.2
-2.5°	26023.5	24313.0	22460.3	20636.7	18892.4	17167.1	15411.9	13661.4	12036.9	10556.2	9146.3
-5°	26031.5	24326.9	22503.2	20695.4	18919.7	17200.6	15474.0	13780.7	12156.8	10691.1	9278.5
-7.5°	25877.6	24200.3	22398.5	20602.1	18843.8	17142.0	15432.3	13799.4	12228.5	10741.5	9344.3
-10°	25616.9	23973.2	22194.3	20394.1	18664.7	16962.2	15306.6	13748.3	12211.6	10726.4	9353.9
-12.5°	25062.0	23530.3	21820.3	20054.1	18363.1	16684.0	15098.9	13618.0	12103.1	10647.4	9308.3
-15°	24414.6	22921.1	21266.9	19593.6	17937.7	16332.4	14804.1	13354.2	11882.1	10500.5	9208.4
-17.5°	23545.7	22161.6	20587.9	19034.0	17447.2	15909.0	14434.4	13019.2	11626.8	10289.6	9023.9
-20°	22512.8	21178.6	19840.1	18396.4	16881.4	15410.4	13979.3	12643.8	11322.2	10021.0	8805.1



REPORT NUMBER: P701458 (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°	21390.2	20181.8	18923.5	17608.7	16242.7	14849.1	13498.9	12218.2	10958.7	9678.7	8541.9
-25°	20204.9	19109.6	17938.1	16737.3	15503.7	14215.1	12952.4	11730.8	10511.6	9313.6	8240.8
-27.5°	18974.5	17966.7	16954.0	15839.9	14692.6	13529.5	12353.8	11188.1	10019.1	8942.0	7926.0
-30°	17711.9	16816.5	15904.3	14940.5	13865.0	12775.0	11699.8	10619.2	9547.7	8532.1	7569.8
-32.5°	16424.7	15643.9	14820.9	13975.8	13003.2	11992.2	11009.9	10039.9	9046.9	8106.9	7219.1
-35°	15148.2	14475.4	13743.3	12955.6	12114.7	11206.7	10296.7	9413.8	8540.3	7657.0	6840.5
-37.5°	13924.0	13336.4	12664.9	11937.1	11202.9	10414.9	9595.2	8790.9	7988.7	7207.8	6442.6
-40°	12709.5	12175.9	11607.5	10957.2	10303.6	9632.8	8907.2	8162.4	7443.3	6738.8	6027.4
-42.5°	11535.1	11070.5	10577.6	10015.3	9427.2	8848.1	8223.3	7550.5	6886.6	6246.8	5626.8
-45°	10413.4	10009.6	9570.5	9103.7	8586.6	8071.3	7536.9	6933.3	6329.0	5763.5	5205.3
-47.5°	9340.5	8992.7	8613.4	8226.1	7778.0	7309.9	6835.8	6312.3	5795.7	5277.2	4793.7
-50°	8310.8	8016.6	7700.7	7375.0	7004.6	6585.4	6166.4	5737.7	5272.0	4823.1	4380.9
-52.5°	7328.5	7102.4	6855.8	6580.5	6277.2	5916.9	5538.0	5175.0	4775.9	4380.7	3987.9
-55°	6490.1	6285.0	6079.3	5849.4	5598.8	5289.9	4965.6	4640.8	4312.9	3951.3	3610.8
-57.5°	5723.9	5533.4	5361.5	5169.7	4958.7	4701.7	4426.9	4141.4	3860.5	3548.7	3238.7
-60°	5022.2	4840.9	4696.1	4536.8	4363.2	4150.1	3916.1	3670.4	3413.3	3157.9	2895.7
-62.5°	4357.1	4198.7	4076.7	3949.4	3809.9	3644.1	3434.3	3226.1	3008.8	2782.2	2568.6
-65°	3755.4	3620.7	3510.8	3410.5	3300.1	3176.9	2993.2	2811.7	2631.7	2446.3	2255.5
-67.5°	3215.6	3101.2	3007.2	2921.3	2833.5	2736.4	2591.0	2432.8	2280.1	2128.6	1967.5
-70°	2727.9	2634.2	2553.6	2481.9	2407.2	2328.5	2216.4	2087.2	1955.0	1825.9	1691.2
-72.5°	2285.0	2208.7	2139.5	2081.7	2017.4	1952.3	1866.9	1760.7	1651.2	1538.5	1425.9
-75°	1874.2	1812.3	1754.2	1708.9	1659.6	1606.3	1540.9	1454.4	1366.9	1278.5	1188.5
-77.5°	1492.5	1444.9	1398.8	1365.5	1328.7	1288.6	1238.5	1169.9	1105.6	1039.8	972.7
-80°	1150.9	1116.0	1081.6	1060.4	1037.4	1012.7	982.4	930.0	876.3	824.2	774.5
-82.5°	859.6	835.7	811.7	800.6	787.7	773.1	754.6	716.6	678.0	638.9	599.5
-85°	634.2	617.7	601.0	594.5	587.1	578.7	568.8	543.9	518.6	492.8	466.6
-87.5°	485.9	473.6	461.2	456.5	451.5	446.4	441.1	424.3	407.5	390.7	373.9
-90°	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.4	5.7	5.9	6.2





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	311.3	296.5	281.6	266.7	251.6	236.5	221.3	206.2	189.0	171.8	154.6
87.5°	11.3	11.9	12.5	13.1	12.8	12.6	12.3	12.0	12.5	12.8	13.0
85°	23.8	22.5	21.4	20.6	19.4	18.0	17.4	16.8	17.5	17.9	18.0
82.5°	43.2	39.4	35.9	33.1	32.2	30.8	28.9	26.5	25.2	23.5	23.1
80°	57.9	53.0	48.4	44.6	44.1	43.8	41.7	39.2	37.1	34.6	31.5
77.5°	73.5	66.7	60.0	55.1	53.6	52.3	51.1	50.6	49.1	45.6	41.6
75°	89.7	81.8	74.0	68.5	65.5	60.6	58.5	58.7	60.4	56.9	51.7
72.5°	106.5	98.1	88.8	83.5	81.9	77.6	70.5	67.8	72.2	70.7	63.0
70°	121.4	114.6	105.6	103.3	101.2	95.5	89.0	87.1	85.1	85.0	78.3
67.5°	135.1	129.0	121.2	124.5	124.2	119.0	108.9	109.8	109.1	100.4	94.0
65°	139.4	139.8	138.1	146.8	148.7	144.1	134.5	136.0	134.1	125.5	110.3
62.5°	143.8	147.7	154.6	170.5	175.4	171.7	163.1	168.7	161.8	151.4	132.9
60°	148.8	156.2	175.0	195.1	203.8	201.5	199.6	203.5	196.7	178.2	158.4
57.5°	165.0	168.4	202.1	225.1	234.9	233.9	240.5	244.2	233.3	211.9	184.8
55°	191.8	204.6	242.4	263.5	272.4	269.6	287.6	289.7	273.2	248.3	213.1
52.5°	244.4	273.7	306.2	317.7	319.1	319.6	344.2	338.6	320.4	286.0	248.7
50°	362.3	388.1	405.3	398.5	377.2	395.5	407.7	400.1	370.2	327.1	285.9
47.5°	611.0	600.4	556.0	507.7	469.0	484.9	492.1	468.1	422.5	375.2	323.9
45°	994.1	905.6	786.4	682.9	600.7	609.8	591.5	541.5	490.1	427.1	362.7
42.5°	1410.8	1277.2	1125.5	881.3	803.7	755.2	701.9	640.2	561.7	480.7	406.6
40°	1899.9	1670.0	1494.5	1231.1	1020.0	914.0	843.9	749.9	636.7	539.1	454.3
37.5°	2362.3	2080.8	1860.9	1561.2	1258.6	1114.9	997.8	867.4	717.0	604.4	502.7
35°	2789.6	2479.8	2173.5	1859.0	1542.8	1316.6	1160.6	998.5	810.5	669.0	551.6
32.5°	3207.6	2847.7	2491.8	2139.8	1804.1	1518.5	1337.7	1113.9	900.1	733.0	600.8
30°	3637.4	3217.5	2808.8	2411.5	2047.3	1743.4	1497.5	1222.1	985.8	796.0	651.2
27.5°	4069.0	3582.4	3126.6	2691.4	2288.8	1949.4	1619.6	1323.0	1067.5	861.9	703.7
25°	4511.4	3967.1	3454.6	2971.1	2520.4	2107.9	1736.7	1416.9	1150.7	931.3	754.8
22.5°	4961.0	4357.2	3773.9	3243.7	2712.7	2267.6	1859.5	1515.6	1231.1	996.9	804.3
20°	5384.3	4741.5	4072.6	3462.5	2902.6	2432.9	1990.0	1608.7	1305.2	1058.7	852.1
17.5°	5792.3	5087.2	4338.0	3676.7	3086.6	2584.8	2117.2	1695.9	1373.0	1116.6	897.9
15°	6214.8	5390.0	4594.7	3873.7	3254.4	2723.2	2239.9	1776.7	1434.6	1170.4	936.4
12.5°	6592.8	5684.3	4834.4	4052.6	3405.7	2848.2	2356.4	1850.9	1490.0	1217.8	966.5
10°	6929.3	5964.9	5054.3	4212.4	3540.1	2959.7	2465.4	1926.4	1555.2	1260.4	994.4
7.5°	7223.8	6226.4	5251.3	4352.2	3658.6	3052.4	2548.0	2012.5	1619.7	1299.9	1019.9
5°	7466.1	6442.8	5440.7	4513.7	3768.3	3127.7	2611.3	2091.3	1680.6	1335.8	1042.6
2.5°	7624.1	6590.2	5610.3	4663.6	3862.2	3191.3	2659.3	2162.2	1736.6	1367.6	1062.0
0°	7740.8	6698.7	5747.9	4791.9	3938.6	3242.2	2694.4	2224.7	1786.7	1394.9	1078.0
-2.5°	7891.1	6804.9	5833.8	4893.6	4045.4	3332.3	2754.0	2264.2	1821.8	1428.9	1104.5
-5°	7994.7	6874.4	5889.7	4970.0	4131.7	3406.5	2801.7	2294.7	1850.0	1457.6	1126.9
-7.5°	8067.0	6930.6	5927.0	5020.8	4196.5	3462.6	2836.2	2316.0	1871.2	1480.8	1144.9
-10°	8094.8	6960.9	5947.2	5035.8	4216.9	3489.1	2856.6	2328.1	1885.6	1498.3	1158.4
-12.5°	8072.7	6946.4	5931.7	5023.6	4210.6	3488.5	2864.4	2337.6	1893.7	1509.8	1167.2
-15°	8000.5	6885.5	5879.5	4983.7	4181.3	3470.7	2859.3	2339.9	1897.0	1513.7	1171.0
-17.5°	7871.7	6776.9	5789.6	4916.0	4128.6	3435.4	2841.4	2331.2	1892.0	1509.3	1168.3
-20°	7689.8	6634.4	5667.0	4820.4	4052.4	3382.8	2810.7	2311.4	1878.5	1498.3	1159.7



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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°	7472.6	6472.3	5549.4	4712.7	3963.4	3312.9	2767.2	2280.1	1856.3	1480.4	1146.4
-25°	7218.2	6282.5	5400.7	4595.4	3870.3	3251.1	2717.3	2237.2	1825.3	1455.6	1128.6
-27.5°	6966.2	6071.6	5218.2	4454.8	3771.2	3176.1	2660.3	2195.2	1787.9	1423.8	1106.1
-30°	6702.2	5841.9	5033.4	4300.9	3652.4	3090.8	2589.9	2143.2	1746.5	1390.4	1079.1
-32.5°	6394.1	5576.1	4832.2	4151.5	3533.8	2987.7	2506.4	2080.8	1696.7	1354.6	1053.3
-35°	6055.7	5308.6	4611.5	3981.3	3401.7	2883.1	2417.1	2008.1	1638.4	1313.6	1025.4
-37.5°	5696.0	5024.1	4404.8	3801.0	3247.5	2763.5	2327.2	1932.5	1571.9	1267.5	993.6
-40°	5361.0	4731.4	4156.8	3610.1	3094.0	2629.2	2226.0	1853.0	1509.6	1216.2	958.0
-42.5°	5003.1	4438.2	3903.5	3391.9	2931.4	2505.2	2115.8	1766.0	1447.8	1167.6	918.8
-45°	4660.2	4133.0	3638.5	3186.3	2758.3	2369.8	2011.2	1673.9	1378.6	1118.4	878.7
-47.5°	4303.2	3829.2	3381.6	2966.1	2595.1	2229.2	1898.8	1587.2	1302.2	1065.1	838.6
-50°	3958.0	3528.0	3126.3	2757.3	2412.5	2097.2	1781.8	1491.7	1233.7	1005.4	794.5
-52.5°	3610.0	3235.3	2878.6	2544.8	2242.9	1957.3	1664.4	1389.9	1159.2	945.0	746.6
-55°	3270.8	2953.6	2634.0	2341.3	2068.6	1809.4	1537.7	1298.3	1079.0	882.0	696.0
-57.5°	2954.3	2672.6	2400.5	2138.5	1889.4	1649.5	1417.8	1200.2	999.5	814.9	651.0
-60°	2641.9	2408.4	2167.4	1932.9	1705.2	1495.7	1299.6	1099.2	916.9	746.3	601.8
-62.5°	2354.7	2143.9	1936.4	1723.0	1529.7	1350.7	1177.1	999.4	829.9	684.1	549.3
-65°	2074.8	1889.5	1701.9	1530.4	1363.0	1204.2	1056.1	894.8	750.7	618.9	498.1
-67.5°	1801.5	1647.4	1494.3	1340.9	1201.3	1065.4	929.7	798.0	671.2	550.8	454.1
-70°	1554.0	1417.2	1291.6	1169.5	1046.4	926.0	816.9	702.7	588.6	496.2	408.4
-72.5°	1318.3	1211.4	1105.7	999.6	901.0	802.6	704.7	608.9	522.8	440.2	361.2
-75°	1097.0	1014.3	933.5	850.6	763.6	678.1	604.7	531.5	455.5	382.5	321.5
-77.5°	904.5	836.4	768.6	705.6	639.6	575.5	513.6	452.1	390.6	335.8	283.7
-80°	725.2	675.8	626.4	576.3	522.9	471.3	427.8	384.0	335.5	289.2	245.0
-82.5°	561.1	527.4	494.9	461.6	425.4	389.6	354.1	318.8	279.4	241.7	212.6
-85°	441.1	415.2	389.0	362.4	334.6	307.1	286.8	266.2	241.7	217.5	193.6
-87.5°	357.4	340.8	324.0	307.1	289.6	271.9	254.2	236.4	215.5	194.8	174.2
-90°	6.5	6.7	7.0	7.2	7.2	7.2	7.2	7.2	7.5	7.7	8.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	137.4	113.8	90.3	66.7	43.1	25.2	7.2
87.5°	13.0	12.6	12.0	11.3	10.4	9.1	7.2
85°	17.8	17.0	15.9	14.4	12.7	10.6	7.2
82.5°	22.6	21.4	19.7	17.5	14.9	12.0	7.2
80°	27.9	25.8	23.5	20.6	17.1	13.4	7.2
77.5°	37.2	31.9	27.3	23.7	19.4	14.8	7.2
75°	46.6	41.4	32.1	26.8	21.7	16.2	7.2
72.5°	56.2	51.0	41.0	29.9	23.9	17.6	7.2
70°	66.9	60.7	49.9	33.8	26.2	19.0	7.2
67.5°	83.3	70.6	58.9	41.3	28.5	20.4	7.2
65°	100.2	83.6	68.0	48.9	30.9	21.8	7.2
62.5°	117.5	99.7	77.1	56.4	33.2	23.2	7.2
60°	135.3	116.1	86.3	63.9	35.6	24.5	7.2
57.5°	159.8	132.7	100.4	71.4	41.0	25.8	7.2
55°	185.6	149.5	114.7	78.8	46.4	27.2	7.2
52.5°	211.9	167.6	129.1	86.2	51.8	28.5	7.2
50°	238.6	190.6	143.5	93.6	57.0	29.7	7.2
47.5°	266.7	213.8	158.0	101.8	62.1	31.0	7.2
45°	300.2	237.0	172.4	112.7	67.2	32.2	7.2
42.5°	334.1	260.2	186.7	123.4	72.1	33.4	7.2
40°	368.0	283.5	203.0	134.0	76.9	34.6	7.2
37.5°	402.1	306.7	221.1	144.3	81.5	35.8	7.2
35°	436.2	332.7	238.9	154.3	86.0	36.9	7.2
32.5°	472.1	359.7	256.3	163.9	90.3	37.9	7.2
30°	512.0	386.3	273.3	173.1	94.5	39.0	7.2
27.5°	551.4	412.4	288.8	181.9	98.5	40.0	7.2
25°	590.2	437.8	303.5	190.3	102.3	40.9	7.2
22.5°	628.2	461.3	317.3	198.2	105.9	41.8	7.2
20°	665.1	480.7	330.4	205.7	109.2	42.6	7.2
17.5°	694.1	498.8	342.6	212.6	112.4	43.4	7.2
15°	716.6	515.3	353.9	219.0	115.3	44.2	7.2
12.5°	736.6	530.2	364.2	224.9	117.9	44.8	7.2
10°	753.8	543.6	373.5	230.2	120.4	45.4	7.2
7.5°	768.5	555.4	381.8	234.8	122.5	46.0	7.2
5°	780.5	565.4	389.0	238.9	124.4	46.5	7.2
2.5°	790.0	573.8	395.1	242.3	125.9	46.9	7.2
0°	796.9	580.5	400.0	245.1	127.2	47.2	7.2
-2.5°	816.1	591.3	406.5	248.8	129.2	48.1	7.2
-5°	832.5	600.3	411.8	251.8	130.8	49.0	7.2
-7.5°	845.8	607.3	415.8	254.1	132.1	49.7	7.2
-10°	855.8	612.3	418.5	255.7	133.1	50.4	7.2
-12.5°	862.4	615.2	419.8	256.5	133.8	51.0	7.2
-15°	865.2	615.9	419.6	256.5	134.2	51.5	7.2
-17.5°	864.0	614.3	418.0	255.7	134.2	51.9	7.2
-20°	859.3	610.4	414.9	254.2	133.9	52.2	7.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	851.7	604.1	410.3	251.8	133.2	52.5	7.2
-25°	840.8	597.9	404.2	248.6	132.3	52.6	7.2
-27.5°	826.6	590.2	396.6	244.6	131.0	52.7	7.2
-30°	809.0	580.0	387.6	239.8	129.3	52.6	7.2
-32.5°	788.2	567.1	379.5	234.2	127.3	52.4	7.2
-35°	768.7	551.7	369.7	227.8	125.0	52.2	7.2
-37.5°	747.9	535.2	358.3	220.5	122.4	51.8	7.2
-40°	723.7	519.3	345.2	212.5	119.5	51.4	7.2
-42.5°	696.2	501.2	333.1	204.2	116.2	50.9	7.2
-45°	665.4	480.9	322.2	196.0	112.7	50.2	7.2
-47.5°	631.5	458.6	310.0	186.9	108.8	49.5	7.2
-50°	600.6	434.1	296.6	180.5	104.7	48.7	7.2
-52.5°	568.1	407.7	281.9	174.6	100.2	47.8	7.2
-55°	533.1	385.9	266.0	168.0	95.5	46.8	7.2
-57.5°	495.7	363.8	249.0	160.7	90.6	45.7	7.2
-60°	457.2	340.2	231.3	152.9	85.4	44.5	7.2
-62.5°	425.7	315.1	219.0	144.5	82.7	43.3	7.2
-65°	392.5	288.7	205.8	135.5	79.8	41.9	7.2
-67.5°	357.5	265.3	191.9	126.0	76.8	40.5	7.2
-70°	321.1	245.1	177.1	116.0	73.5	39.1	7.2
-72.5°	292.1	223.9	161.7	109.8	70.2	37.5	7.2
-75°	263.2	201.9	145.7	104.3	66.7	35.9	7.2
-77.5°	233.3	179.0	135.9	98.5	63.0	34.2	7.2
-80°	202.5	163.3	127.3	92.6	59.2	32.5	7.2
-82.5°	185.3	151.4	118.4	86.4	55.3	30.7	7.2
-85°	169.7	139.2	109.3	80.0	51.3	28.9	7.2
-87.5°	153.7	126.6	99.9	73.4	47.3	27.1	7.2
-90°	8.2	8.2	8.2	8.2	8.2	7.7	7.2

(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

