

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: P628139

Luminaire Tested: **EPH-VN-04-E-750-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628139  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-04-E-750-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36312.3 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

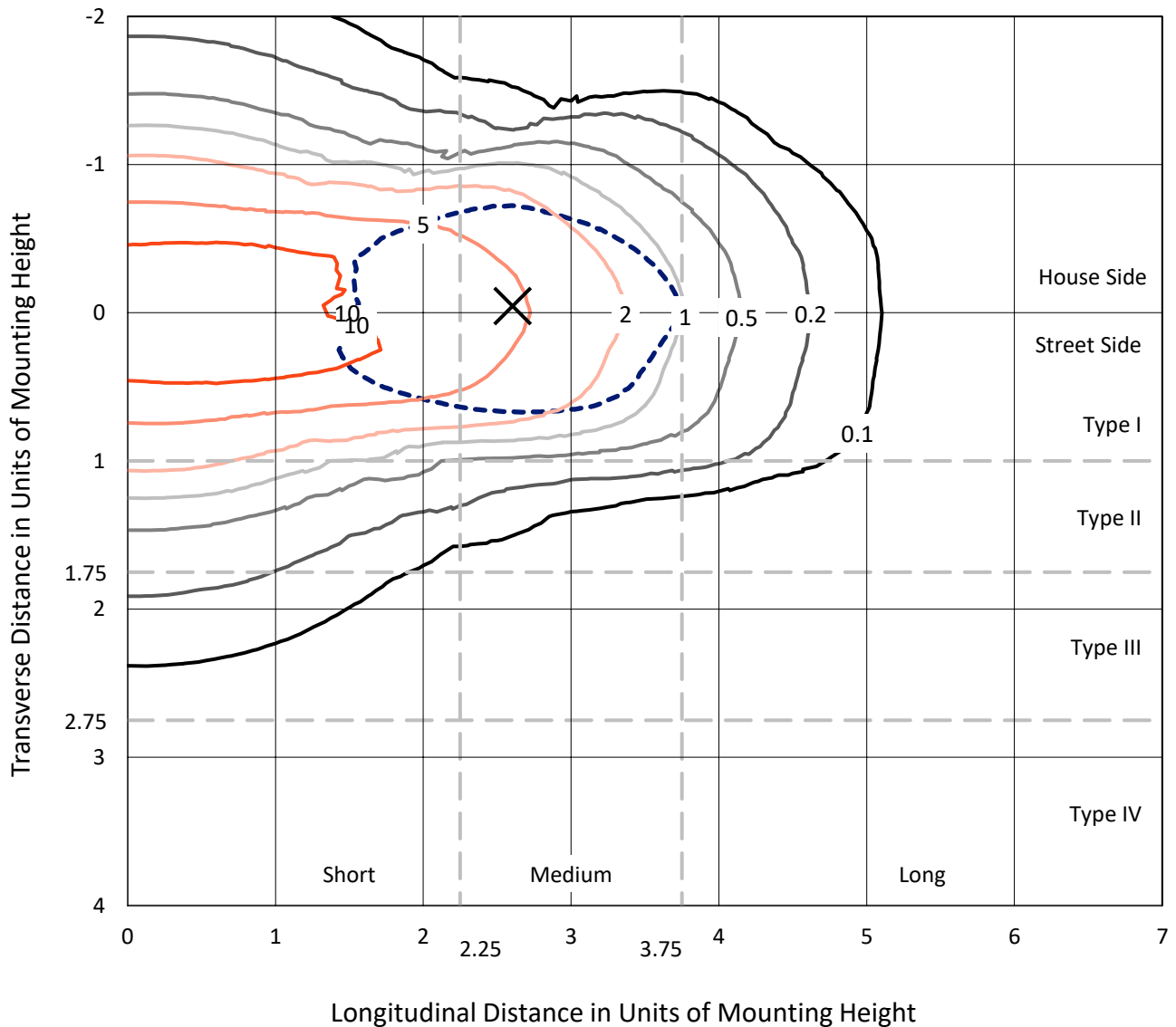
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

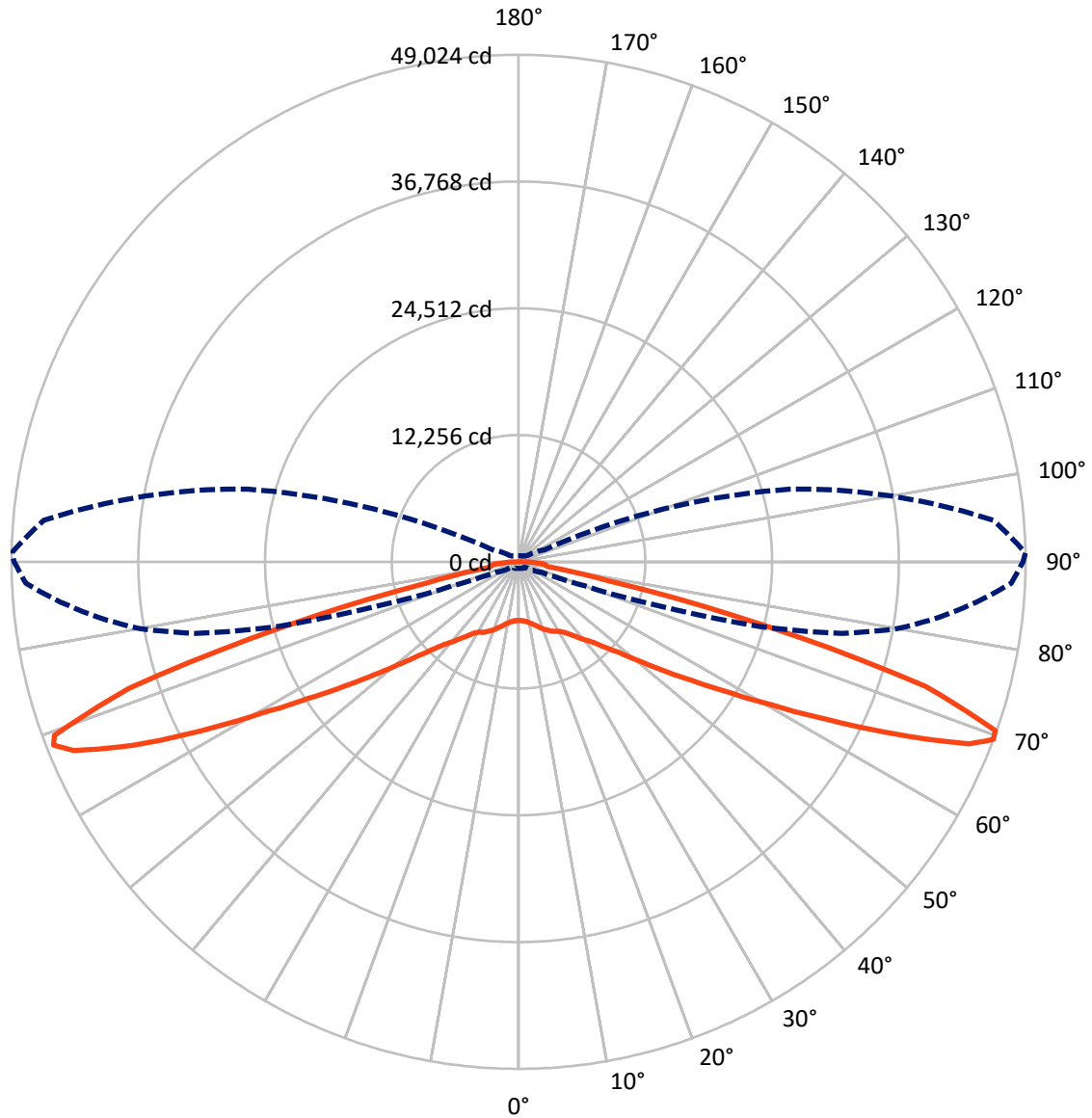
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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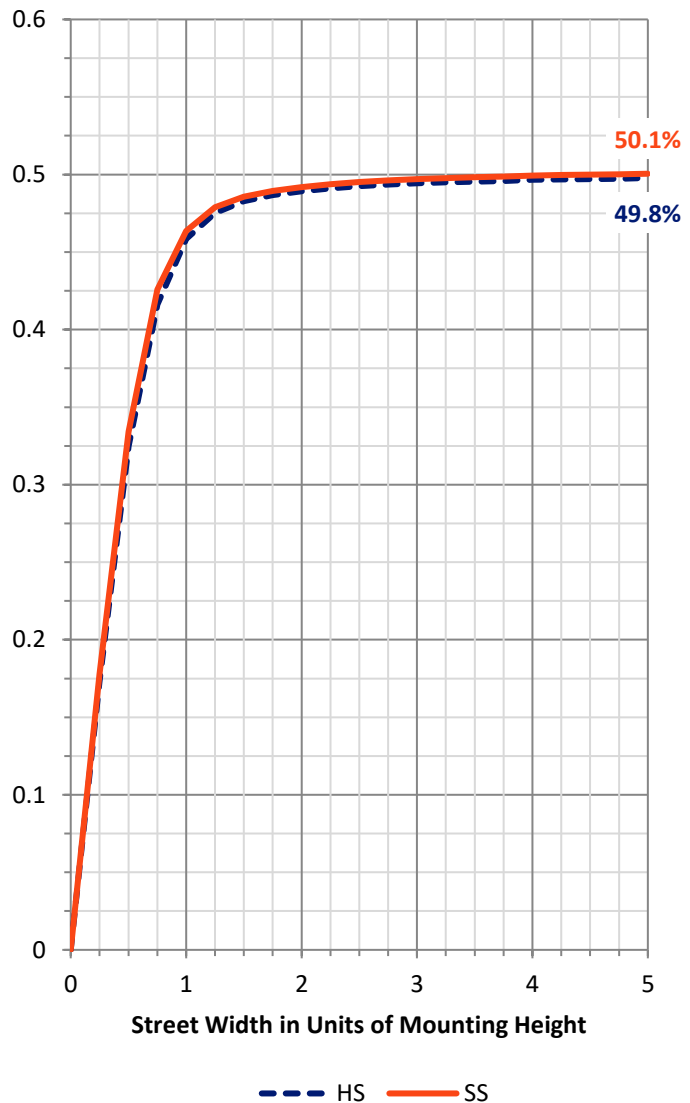
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18205.0	0.0	18205.0
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	18107.3	0.0	18107.3
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	36312.3	0.0	36312.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.0	1.6
10°-20°	1873.1	5.2
20°-30°	3212.0	8.8
30°-40°	4437.2	12.2
40°-50°	5705.1	15.7
50°-60°	7098.2	19.5
60°-70°	8705.8	24.0
70°-80°	4294.5	11.8
80°-90°	414.3	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36312.3	100.0
0°-180°	36312.3	100.0

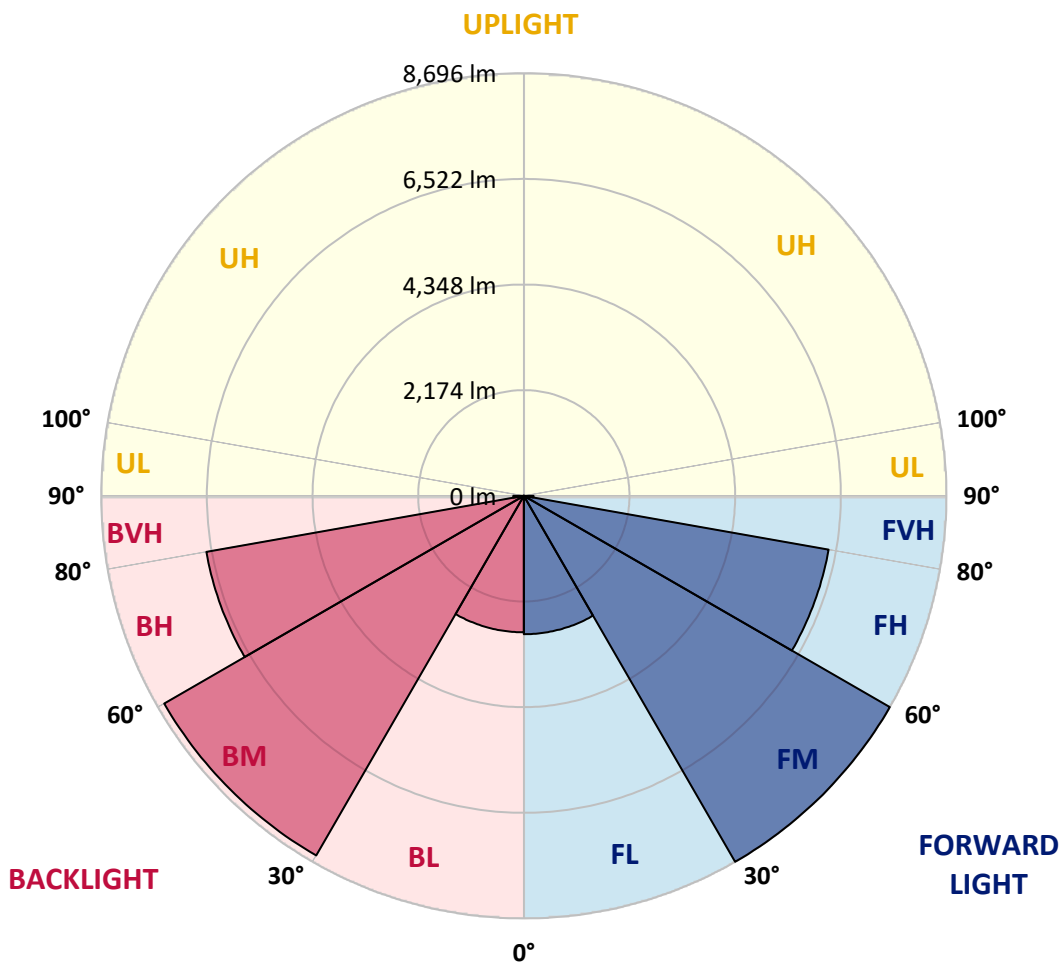


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.5	7.8			
FM (30°-60°)	8695.6	23.9			
FH (60°-80°)	6367.7	17.5			G3/7500
FVH (80°-90°)	196.5	0.5			G2/225
BL (0°-30°)	2809.6	7.7	B4/5000		
BM (30°-60°)	8544.9	23.5	B5		
BH (60°-80°)	6632.7	18.3	B5		G5
BVH (80°-90°)	217.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4
2.5°	5746.7	5797.1	5754.5	5773.9	5797.1	5785.5	5777.7	5723.5	5742.9	5719.6
5°	5948.2	5983.1	5956.0	5952.1	5928.9	5925.0	5901.7	5816.5	5855.2	5801.0
7.5°	6122.6	6157.5	6122.6	6134.2	6142.0	6118.7	6099.4	6006.4	6014.1	5979.2
10°	6250.5	6304.7	6266.0	6343.5	6343.5	6374.5	6347.4	6211.7	6215.6	6173.0
12.5°	6335.7	6401.6	6386.1	6514.0	6579.9	6595.4	6626.4	6510.1	6502.4	6421.0
15°	6273.7	6285.4	6366.7	6564.4	6793.0	6901.5	6955.8	6820.1	6827.9	6734.9
17.5°	6076.1	6114.9	6192.4	6537.3	6827.9	7149.5	7258.0	7180.5	7165.0	7060.4
20°	5859.1	5866.9	5994.7	6390.0	6839.5	7300.6	7622.3	7560.3	7556.4	7490.5
22.5°	5587.9	5591.7	5770.0	6207.9	6804.6	7370.4	7947.8	8029.2	7974.9	7912.9
25°	5250.7	5293.4	5502.6	5994.7	6684.5	7444.0	8137.7	8405.0	8385.7	8327.5
27.5°	4933.0	4964.0	5192.6	5692.5	6428.7	7335.5	8412.8	8881.7	8831.3	8738.3
30°	4646.2	4696.6	4933.0	5382.5	6111.0	7199.9	8594.9	9273.1	9331.2	9226.6
32.5°	4336.2	4398.2	4646.2	5111.2	5816.5	7072.0	8749.9	9734.2	9877.6	9757.4
35°	4026.2	4072.7	4320.7	4820.6	5603.4	6789.1	8780.9	10330.9	10509.2	10443.3
37.5°	3754.9	3797.6	4041.7	4518.3	5316.6	6579.9	8711.2	10827.0	11148.6	11326.8
40°	3452.7	3506.9	3747.2	4227.7	4936.8	6269.9	8625.9	11381.1	11842.2	12078.6
42.5°	3115.6	3189.2	3421.7	3917.7	4642.3	5886.2	8370.2	11753.1	12470.0	12888.5
45°	2759.1	2813.3	3065.2	3522.4	4293.6	5440.6	8009.8	12206.5	13144.3	13919.3
47.5°	2328.9	2363.8	2619.6	3100.1	3805.3	4979.5	7552.5	12555.2	13899.9	14872.5
50°	1860.0	1894.9	2100.3	2584.7	3270.6	4406.0	6851.1	12702.5	14430.8	15794.8
52.5°	1453.2	1480.3	1643.0	2007.3	2658.3	3751.1	6029.6	12667.6	14767.9	16751.9
55°	1131.5	1154.8	1271.0	1546.2	2038.3	2976.1	5169.3	12028.2	14872.5	17422.3
57.5°	972.6	984.3	1038.5	1197.4	1561.7	2255.3	4076.6	10904.5	14357.2	17875.7
60°	856.4	860.3	902.9	1011.4	1209.0	1677.9	2979.9	9110.3	13074.5	17589.0
62.5°	798.3	802.1	825.4	899.0	999.8	1267.1	2111.9	6998.4	10799.8	16407.1
65°	747.9	751.8	771.1	817.6	860.3	1015.3	1553.9	4615.2	7781.1	13369.0
67.5°	682.0	689.8	709.1	747.9	782.8	844.8	1181.9	2976.1	4898.1	9234.3
69°	639.4	647.1	666.5	697.5	728.5	786.6	1023.0	2375.4	3696.8	6789.1
70°	608.4	616.1	639.4	670.4	697.5	751.8	941.6	2108.0	3158.2	5525.9
72.5°	530.9	538.6	554.1	585.1	616.1	654.9	759.5	1507.4	2146.8	3394.6
75°	453.4	457.3	468.9	499.9	530.9	561.9	639.4	1065.6	1426.0	2084.8
77.5°	352.6	356.5	372.0	406.9	426.3	468.9	542.5	740.1	933.9	1212.9
80°	255.8	267.4	286.8	317.8	329.4	352.6	418.5	530.9	616.1	744.0
82.5°	174.4	182.1	201.5	228.6	236.4	236.4	298.4	391.4	437.9	484.4
85°	100.8	104.6	100.8	116.3	135.6	139.5	193.8	236.4	271.3	313.9
87.5°	31.0	31.0	31.0	38.8	46.5	50.4	85.3	108.5	135.6	162.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

72.5°		75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°
5696.4	0°	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4
5723.5	2.5°	5708.0	5754.5	5700.2	5696.4	5692.5	5665.4	5684.7	5680.9	5723.5
5824.2	5°	5789.4	5789.4	5758.4	5781.6	5773.9	5684.7	5766.1	5766.1	5808.7
5952.1	7.5°	5905.6	5913.4	5897.9	5886.2	5870.7	5804.9	5855.2	5847.5	5882.4
6188.5	10°	6130.4	6122.6	6052.9	6052.9	6037.4	5967.6	5998.6	6021.9	6087.7
6417.1	12.5°	6374.5	6324.1	6331.9	6304.7	6254.4	6134.2	6180.7	6184.6	6250.5
6738.8	15°	6641.9	6587.6	6564.4	6541.1	6490.7	6378.4	6444.2	6405.5	6452.0
7033.3	17.5°	7002.3	6932.5	6851.1	6789.1	6715.5	6626.4	6657.4	6688.4	6719.4
7416.9	20°	7401.4	7289.0	7196.0	7095.3	7033.3	6920.9	6959.6	6963.5	6998.4
7819.9	22.5°	7719.1	7622.3	7517.6	7444.0	7316.1	7203.8	7161.1	7168.9	7230.9
8234.5	25°	8133.8	7959.4	7854.8	7734.6	7622.3	7428.5	7409.1	7416.9	7517.6
8699.5	27.5°	8494.2	8350.8	8176.4	7994.3	7831.5	7676.5	7653.3	7626.1	7746.3
9125.8	30°	8963.0	8749.9	8470.9	8296.5	8025.3	7808.3	7777.3	7804.4	7874.2
9749.7	32.5°	9466.8	9242.1	8947.5	8722.8	8393.4	8141.5	8106.7	8133.8	8261.7
10392.9	35°	10206.9	9962.8	9606.3	9261.4	8947.5	8672.4	8653.0	8610.4	8780.9
11276.5	37.5°	11094.3	10768.8	10431.7	10048.1	9714.8	9327.3	9214.9	9249.8	9389.3
12132.9	40°	12094.1	11784.1	11361.7	10923.8	10517.0	10106.2	9943.4	9920.2	10164.3
13248.9	42.5°	13248.9	13035.8	12419.6	11900.4	11365.6	10850.2	10656.5	10668.1	10892.8
14492.8	45°	14597.4	14438.5	13892.1	13241.1	12613.4	11958.5	11830.6	11838.4	12140.6
15616.5	47.5°	16190.1	16290.8	15775.4	15089.5	14314.5	13524.0	13214.0	13136.5	13473.6
17015.5	50°	17802.1	18437.6	18050.1	17395.2	16480.7	15546.8	15147.7	15008.2	15492.5
18402.7	52.5°	19689.3	20712.3	20832.4	20328.6	19301.7	17995.8	17554.1	17410.7	18026.8
19801.6	55°	21646.2	23207.8	23793.0	23862.7	22638.2	21204.4	20371.3	20204.6	21169.5
21026.2	57.5°	23622.5	25982.4	27179.8	27888.9	26862.0	24998.1	23812.3	23634.1	25343.0
22002.7	60°	25653.0	28853.8	30775.8	32566.1	31973.2	29903.9	28071.0	28078.8	30419.3
22421.2	62.5°	27137.1	31163.3	34224.7	37111.6	37646.3	36204.8	33883.7	33647.3	36123.4
21173.4	65°	27927.7	33345.0	37103.8	40529.4	42393.3	42323.6	40432.5	40223.3	42044.6
17561.8	67.5°	26745.8	33426.4	38138.5	41548.5	44966.4	46853.5	46613.3	46973.7	45904.1
13915.4	69°	24227.0	31988.7	37216.2	41029.3	44482.0	47671.2	48760.1	49023.6	46078.5
11516.7	70°	21460.2	30202.3	35677.8	39359.1	42528.9	46493.1	48825.9	48907.3	44536.2
6486.9	72.5°	13392.3	22638.2	28024.5	31543.1	33507.8	37262.7	41192.0	41126.2	35232.2
3627.1	75°	7033.3	13043.5	17434.0	19220.4	20320.9	22250.7	24909.0	24575.7	21177.3
1856.2	77.5°	3131.1	5541.4	7064.3	8075.7	8358.5	8920.4	9183.9	8966.9	8513.5
999.8	80°	1519.0	2294.0	2983.8	3154.3	2952.8	2813.3	2879.2	2848.2	3115.6
577.4	82.5°	755.6	1054.0	1189.6	1426.0	2100.3	2580.8	2654.4	2623.4	2352.2
348.8	85°	403.0	484.4	558.0	1023.0	1879.4	2356.0	2425.8	2414.2	2173.9
189.9	87.5°	224.8	279.0	403.0	817.6	1135.4	1201.3	1267.1	1228.4	1263.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

105°	115°		125°	135°	145°	155°	165°	175°	180°
5696.4	5696.4	0°	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4	5696.4
5711.9	5762.2	2.5°	5731.2	5762.2	5777.7	5719.6	5754.5	5723.5	5731.2
5801.0	5866.9	5°	5828.1	5901.7	5890.1	5890.1	5897.9	5851.4	5870.7
5882.4	5979.2	7.5°	6021.9	6049.0	6111.0	6087.7	6064.5	6018.0	6025.7
6103.2	6196.2	10°	6285.4	6285.4	6324.1	6285.4	6211.7	6180.7	6173.0
6328.0	6502.4	12.5°	6541.1	6502.4	6525.6	6413.2	6328.0	6266.0	6297.0
6529.5	6731.0	15°	6769.8	6762.0	6676.8	6533.4	6324.1	6211.7	6219.5
6878.3	7056.5	17.5°	7110.8	7041.0	6816.3	6444.2	6184.6	6076.1	6021.9
7203.8	7409.1	20°	7447.9	7254.1	6800.8	6300.9	5956.0	5777.7	5781.6
7478.9	7773.4	22.5°	7742.4	7335.5	6746.5	6118.7	5746.7	5506.5	5502.6
7866.4	8153.2	25°	8025.3	7289.0	6638.0	5952.1	5514.2	5281.7	5250.7
8207.4	8579.4	27.5°	8246.2	7246.4	6374.5	5684.7	5196.5	5006.6	4987.2
8517.4	9048.3	30°	8385.7	7153.4	6138.1	5370.9	4902.0	4716.0	4708.2
9087.0	9447.4	32.5°	8544.5	7010.0	5828.1	5091.8	4642.3	4440.8	4429.2
9757.4	10036.4	35°	8691.8	6793.0	5576.2	4828.3	4371.1	4134.7	4099.8
10575.1	10703.0	37.5°	8722.8	6552.8	5262.4	4514.5	4034.0	3805.3	3801.4
11617.5	11280.3	40°	8726.7	6262.1	4929.1	4200.6	3704.6	3472.1	3456.6
12745.1	11768.6	42.5°	8571.7	5928.9	4595.8	3828.6	3363.6	3088.4	3069.1
14089.8	12365.4	45°	8215.2	5529.7	4169.6	3417.8	2987.7	2731.9	2700.9
15678.6	12904.0	47.5°	7738.5	5029.8	3739.4	2999.3	2561.4	2328.9	2309.5
17410.7	13252.8	50°	7095.3	4468.0	3220.2	2545.9	2131.3	1941.4	1894.9
19433.5	13299.3	52.5°	6297.0	3824.7	2677.7	2073.2	1736.0	1569.4	1542.3
21642.3	12911.7	55°	5343.7	3131.1	2139.0	1654.7	1348.5	1220.6	1197.4
23684.5	11931.4	57.5°	4282.0	2410.3	1646.9	1278.8	1081.1	992.0	964.9
25955.2	10106.2	60°	3200.8	1817.4	1263.3	1015.3	883.5	821.5	809.9
27981.9	7850.9	62.5°	2301.8	1367.9	992.0	848.6	775.0	744.0	736.3
29125.1	5274.0	65°	1693.4	1054.0	825.4	767.3	713.0	685.9	674.3
28931.3	3452.7	67.5°	1259.4	844.8	732.4	697.5	658.8	631.6	623.9
27113.9	2751.3	69°	1061.8	763.4	685.9	651.0	616.1	592.9	581.3
24959.4	2340.5	70°	961.0	720.8	662.6	627.8	589.0	569.6	558.0
16744.2	1573.3	72.5°	755.6	623.9	589.0	550.3	523.1	499.9	496.0
8796.4	1112.1	75°	623.9	534.8	507.6	476.6	449.5	426.3	426.3
3832.4	798.3	77.5°	523.1	441.8	418.5	387.5	360.4	337.1	333.3
1840.7	577.4	80°	406.9	337.1	321.6	310.0	279.0	244.1	240.3
972.6	414.6	82.5°	290.6	228.6	224.8	217.0	189.9	170.5	162.8
527.0	248.0	85°	182.1	131.8	120.1	104.6	93.0	93.0	93.0
255.8	108.5	87.5°	69.8	38.8	38.8	31.0	23.3	23.3	23.3
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)