

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: P628130

Luminaire Tested: **EPH-VN-08-D-735-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628130  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-735-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55808.8 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

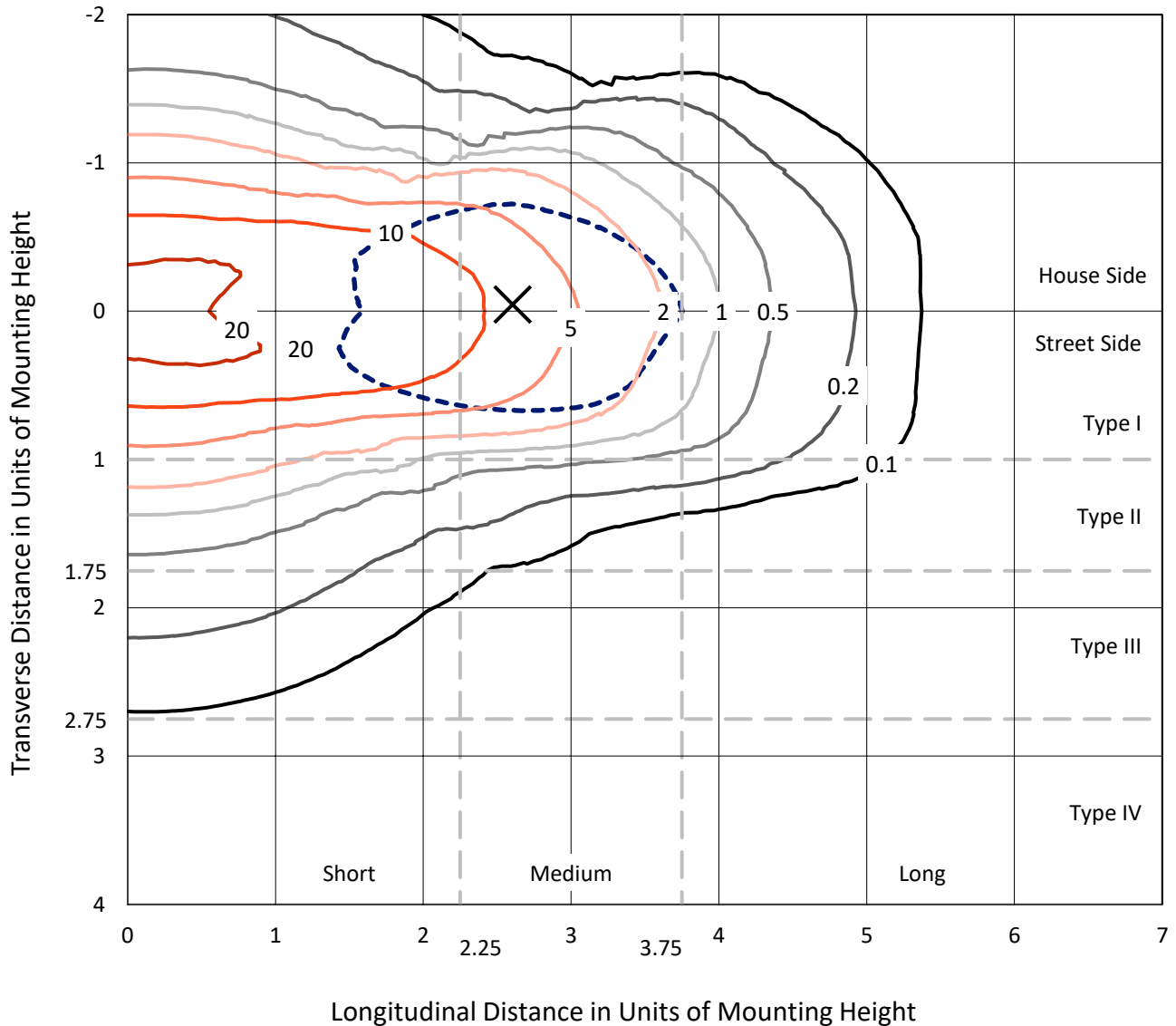
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

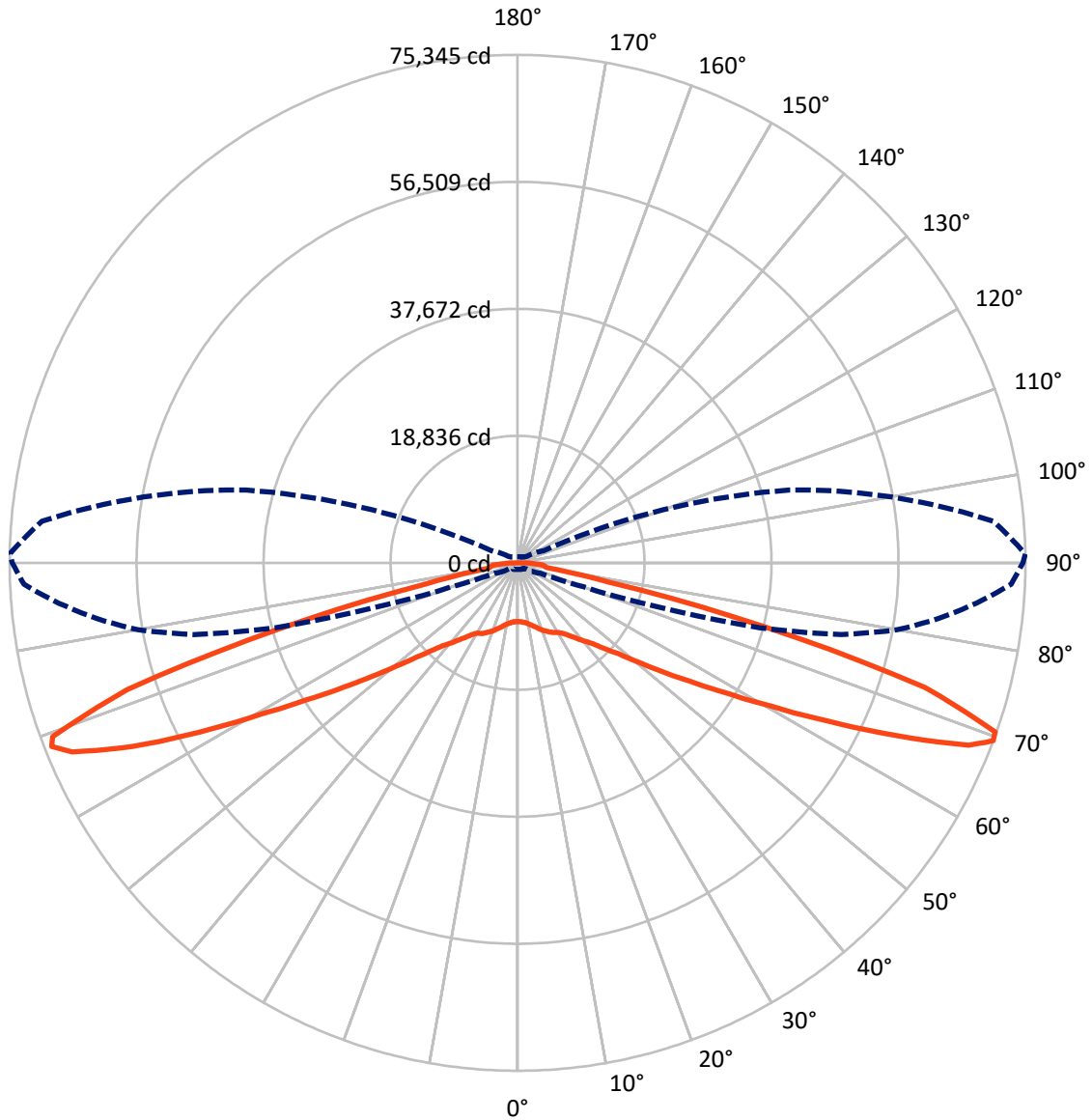
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.8 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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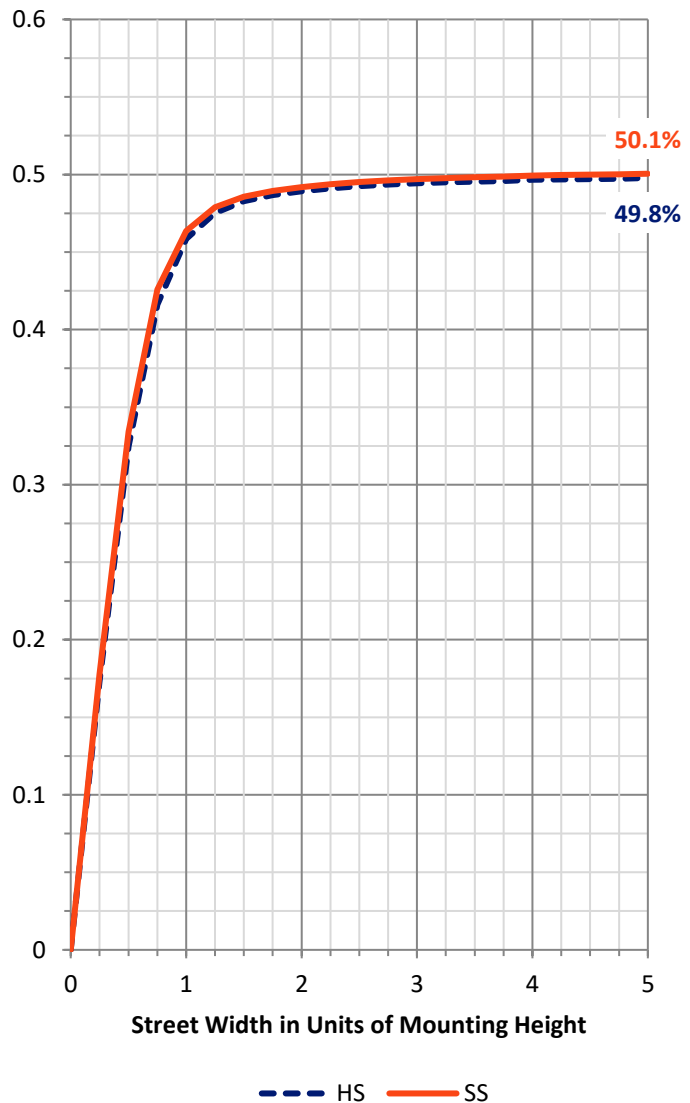
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27979.5	0.0	27979.5
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	27829.3	0.0	27829.3
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	55808.8	0.0	55808.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	879.2	1.6
10°-20°	2878.7	5.2
20°-30°	4936.6	8.8
30°-40°	6819.6	12.2
40°-50°	8768.2	15.7
50°-60°	10909.4	19.5
60°-70°	13380.1	24.0
70°-80°	6600.3	11.8
80°-90°	636.7	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°	55808.8	100.0
0°-180°	55808.8	100.0

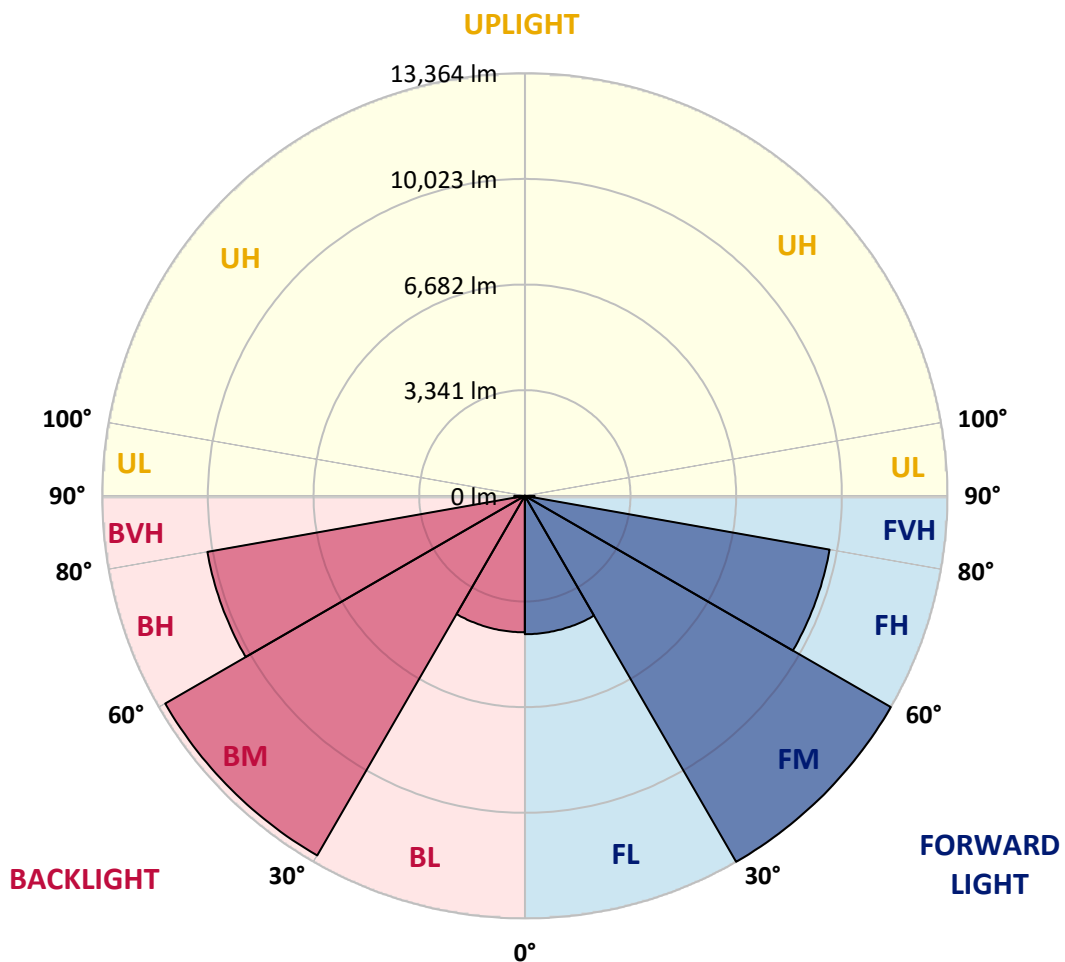


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4376.4	7.8			
FM (30°-60°)	13364.4	23.9			
FH (60°-80°)	9786.6	17.5			G4/12000
FVH (80°-90°)	301.9	0.5			G3/500
BL (0°-30°)	4318.1	7.7	B4/5000		
BM (30°-60°)	13132.8	23.5	B5		
BH (60°-80°)	10193.8	18.3	B5		G5
BVH (80°-90°)	334.8	0.6			G3/500
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°	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8
2.5°	8832.2	8909.6	8844.1	8873.9	8909.6	8891.8	8879.9	8796.5	8826.3	8790.5
5°	9141.9	9195.5	9153.8	9147.9	9112.1	9106.2	9070.4	8939.4	8999.0	8915.6
7.5°	9409.9	9463.5	9409.9	9427.8	9439.7	9404.0	9374.2	9231.3	9243.2	9189.6
10°	9606.5	9689.8	9630.3	9749.4	9749.4	9797.0	9755.3	9546.9	9552.9	9487.3
12.5°	9737.5	9838.7	9814.9	10011.4	10112.7	10136.5	10184.2	10005.5	9993.6	9868.5
15°	9642.2	9660.1	9785.1	10088.9	10440.2	10607.0	10690.4	10481.9	10493.8	10350.9
17.5°	9338.5	9398.0	9517.1	10047.2	10493.8	10988.2	11154.9	11035.8	11012.0	10851.2
20°	9004.9	9016.8	9213.4	9820.9	10511.7	11220.4	11714.8	11619.5	11613.5	11512.3
22.5°	8588.0	8594.0	8868.0	9540.9	10458.1	11327.6	12215.0	12340.1	12256.7	12161.4
25°	8069.9	8135.4	8457.0	9213.4	10273.5	11440.8	12506.9	12917.8	12888.0	12798.7
27.5°	7581.5	7629.2	7980.6	8748.8	9880.4	11274.0	12929.7	13650.3	13572.9	13430.0
30°	7140.8	7218.2	7581.5	8272.4	9392.1	11065.6	13209.6	14251.9	14341.2	14180.4
32.5°	6664.4	6759.7	7140.8	7855.5	8939.4	10869.1	13447.8	14960.6	15180.9	14996.3
35°	6187.9	6259.4	6640.5	7408.8	8611.9	10434.3	13495.5	15877.8	16151.7	16050.5
37.5°	5771.0	5836.5	6211.7	6944.3	8171.1	10112.7	13388.3	16640.1	17134.4	17408.4
40°	5306.5	5389.9	5759.1	6497.6	7587.5	9636.2	13257.3	17491.7	18200.5	18563.7
42.5°	4788.3	4901.5	5258.8	6021.2	7134.9	9046.6	12864.2	18063.5	19165.3	19808.5
45°	4240.4	4323.8	4710.9	5413.7	6598.9	8361.7	12310.3	18760.3	20201.6	21392.7
47.5°	3579.3	3632.9	4026.0	4764.5	5848.4	7653.0	11607.6	19296.3	21362.9	22857.8
50°	2858.7	2912.3	3228.0	3972.4	5026.6	6771.6	10529.6	19522.6	22178.8	24275.2
52.5°	2233.4	2275.1	2525.2	3085.0	4085.6	5765.1	9267.0	19469.0	22697.0	25746.3
55°	1739.0	1774.8	1953.5	2376.3	3132.7	4573.9	7944.8	18486.3	22857.8	26776.6
57.5°	1494.9	1512.7	1596.1	1840.3	2400.1	3466.2	6265.3	16759.2	22065.7	27473.4
60°	1316.2	1322.2	1387.7	1554.4	1858.2	2578.8	4579.9	14001.7	20094.3	27032.7
62.5°	1226.9	1232.8	1268.6	1381.7	1536.6	1947.5	3245.8	10755.9	16598.4	25216.2
65°	1149.4	1155.4	1185.2	1256.6	1322.2	1560.4	2388.2	7093.2	11958.9	20547.0
67.5°	1048.2	1060.1	1089.9	1149.4	1203.0	1298.3	1816.5	4573.9	7527.9	14192.3
69°	982.7	994.6	1024.4	1072.0	1119.7	1209.0	1572.3	3650.8	5681.7	10434.3
70°	935.0	946.9	982.7	1030.3	1072.0	1155.4	1447.2	3239.9	4853.9	8492.8
72.5°	815.9	827.8	851.7	899.3	946.9	1006.5	1167.3	2316.7	3299.4	5217.1
75°	696.8	702.8	720.6	768.3	815.9	863.6	982.7	1637.8	2191.7	3204.1
77.5°	542.0	547.9	571.7	625.3	655.1	720.6	833.8	1137.5	1435.3	1864.1
80°	393.1	410.9	440.7	488.4	506.2	542.0	643.2	815.9	946.9	1143.5
82.5°	268.0	279.9	309.7	351.4	363.3	363.3	458.6	601.5	673.0	744.5
85°	154.8	160.8	154.8	178.7	208.4	214.4	297.8	363.3	416.9	482.4
87.5°	47.6	47.6	47.6	59.6	71.5	77.4	131.0	166.8	208.4	250.1
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°
8754.8	0°	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8
8796.5	2.5°	8772.7	8844.1	8760.8	8754.8	8748.8	8707.2	8736.9	8731.0	8796.5
8951.3	5°	8897.7	8897.7	8850.1	8885.8	8873.9	8736.9	8862.0	8862.0	8927.5
9147.9	7.5°	9076.4	9088.3	9064.5	9046.6	9022.8	8921.6	8999.0	8987.1	9040.7
9511.2	10°	9421.8	9409.9	9302.7	9302.7	9278.9	9171.7	9219.3	9255.1	9356.3
9862.5	12.5°	9797.0	9719.6	9731.5	9689.8	9612.4	9427.8	9499.3	9505.2	9606.5
10356.9	15°	10208.0	10124.6	10088.9	10053.1	9975.7	9803.0	9904.2	9844.7	9916.2
10809.5	17.5°	10761.9	10654.7	10529.6	10434.3	10321.1	10184.2	10231.8	10279.4	10327.1
11399.1	20°	11375.3	11202.6	11059.6	10904.8	10809.5	10636.8	10696.3	10702.3	10755.9
12018.5	22.5°	11863.6	11714.8	11554.0	11440.8	11244.3	11071.5	11006.0	11017.9	11113.2
12655.7	25°	12500.9	12232.9	12072.1	11887.5	11714.8	11417.0	11387.2	11399.1	11554.0
13370.4	27.5°	13054.8	12834.4	12566.4	12286.5	12036.4	11798.1	11762.4	11720.7	11905.3
14025.5	30°	13775.4	13447.8	13019.0	12751.0	12334.1	12000.6	11953.0	11994.7	12101.9
14984.4	32.5°	14549.6	14204.2	13751.6	13406.2	12899.9	12512.8	12459.2	12500.9	12697.4
15973.0	35°	15687.2	15312.0	14764.0	14234.0	13751.6	13328.7	13299.0	13233.4	13495.5
17330.9	37.5°	17051.0	16550.7	16032.6	15443.0	14930.8	14335.2	14162.5	14216.1	14430.5
18647.1	40°	18587.6	18111.1	17462.0	16789.0	16163.6	15532.3	15282.2	15246.5	15621.7
20362.4	42.5°	20362.4	20034.8	19087.8	18289.8	17467.9	16675.8	16378.0	16395.9	16741.3
22274.1	45°	22434.9	22190.7	21351.0	20350.4	19385.6	18379.1	18182.6	18194.5	18659.0
24001.3	47.5°	24882.7	25037.5	24245.4	23191.3	22000.2	20785.2	20308.8	20189.6	20707.8
26151.2	50°	27360.2	28337.0	27741.4	26734.9	25329.4	23894.1	23280.6	23066.2	23810.7
28283.4	52.5°	30260.6	31832.9	32017.6	31243.3	29665.1	27658.0	26979.1	26758.7	27705.7
30433.3	55°	33268.2	35668.4	36567.7	36674.9	34792.9	32589.3	31308.8	31052.7	32535.7
32315.3	57.5°	36305.6	39932.6	41772.9	42862.8	41284.5	38419.9	36597.4	36323.5	38949.9
33816.2	60°	39426.4	44345.7	47299.7	50051.2	49140.0	45959.7	43142.7	43154.6	46751.8
34459.4	62.5°	41707.4	47895.3	52600.3	57037.2	57859.1	55643.6	52076.2	51712.9	55518.5
32541.6	65°	42922.3	51248.3	57025.3	62290.1	65154.8	65047.6	62141.2	61819.6	64618.8
26991.0	67.5°	41105.9	51373.4	58615.5	63856.4	69109.3	72009.7	71640.5	72194.3	70550.6
21386.7	69°	37234.7	49163.9	57198.0	63058.4	68364.9	73266.4	74939.9	75344.9	70818.6
17700.2	70°	32982.4	46418.3	54833.6	60491.5	65363.2	71455.8	75041.1	75166.2	68448.2
9969.8	72.5°	20582.7	34792.9	43071.2	48479.0	51498.5	57269.5	63308.5	63207.3	54148.7
5574.5	75°	10809.5	20046.7	26794.5	29540.0	31231.4	34197.3	38282.9	37770.7	32547.6
2852.8	77.5°	4812.2	8516.6	10857.1	12411.6	12846.3	13709.9	14114.9	13781.4	13084.6
1536.6	80°	2334.6	3525.7	4585.8	4847.9	4538.2	4323.8	4425.0	4377.4	4788.3
887.4	82.5°	1161.4	1619.9	1828.4	2191.7	3228.0	3966.5	4079.6	4032.0	3615.1
536.0	85°	619.4	744.5	857.6	1572.3	2888.5	3621.0	3728.2	3710.4	3341.1
291.8	87.5°	345.4	428.8	619.4	1256.6	1745.0	1846.3	1947.5	1887.9	1941.5
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°
8754.8	8754.8	0°	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8	8754.8
8778.6	8856.0	2.5°	8808.4	8856.0	8879.9	8790.5	8844.1	8796.5	8808.4
8915.6	9016.8	5°	8957.3	9070.4	9052.6	9052.6	9064.5	8993.0	9022.8
9040.7	9189.6	7.5°	9255.1	9296.8	9392.1	9356.3	9320.6	9249.1	9261.0
9380.1	9523.1	10°	9660.1	9660.1	9719.6	9660.1	9546.9	9499.3	9487.3
9725.6	9993.6	12.5°	10053.1	9993.6	10029.3	9856.6	9725.6	9630.3	9677.9
10035.3	10345.0	15°	10404.5	10392.6	10261.6	10041.2	9719.6	9546.9	9558.8
10571.3	10845.2	17.5°	10928.6	10821.4	10476.0	9904.2	9505.2	9338.5	9255.1
11071.5	11387.2	20°	11446.8	11149.0	10452.2	9683.9	9153.8	8879.9	8885.8
11494.4	11947.0	22.5°	11899.4	11274.0	10368.8	9404.0	8832.2	8463.0	8457.0
12090.0	12530.7	25°	12334.1	11202.6	10202.0	9147.9	8474.9	8117.5	8069.9
12614.1	13185.8	27.5°	12673.6	11137.1	9797.0	8736.9	7986.5	7694.7	7664.9
13090.5	13906.4	30°	12888.0	10994.1	9433.7	8254.5	7533.9	7248.0	7236.1
13966.0	14519.9	32.5°	13132.2	10773.8	8957.3	7825.7	7134.9	6825.2	6807.3
14996.3	15425.1	35°	13358.5	10440.2	8570.2	7420.7	6718.0	6354.7	6301.1
16253.0	16449.5	37.5°	13406.2	10071.0	8087.8	6938.3	6199.8	5848.4	5842.5
17855.0	17336.9	40°	13412.1	9624.3	7575.6	6455.9	5693.6	5336.3	5312.4
19588.1	18087.3	42.5°	13173.9	9112.1	7063.4	5884.2	5169.5	4746.6	4716.9
21654.7	19004.5	45°	12626.0	8498.7	6408.3	5252.9	4591.8	4198.7	4151.1
24096.5	19832.3	47.5°	11893.4	7730.4	5747.2	4609.7	3936.7	3579.3	3549.6
26758.7	20368.3	50°	10904.8	6866.9	4949.1	3912.9	3275.6	2983.8	2912.3
29867.6	20439.8	52.5°	9677.9	5878.2	4115.4	3186.3	2668.1	2412.0	2370.3
33262.3	19844.2	55°	8212.8	4812.2	3287.5	2543.1	2072.6	1876.0	1840.3
36400.9	18337.4	57.5°	6581.0	3704.4	2531.1	1965.4	1661.6	1524.6	1483.0
39890.9	15532.3	60°	4919.4	2793.2	1941.5	1560.4	1357.9	1262.6	1244.7
43005.7	12066.1	62.5°	3537.7	2102.3	1524.6	1304.3	1191.1	1143.5	1131.6
44762.6	8105.6	65°	2602.6	1619.9	1268.6	1179.2	1095.8	1054.1	1036.3
44464.9	5306.5	67.5°	1935.6	1298.3	1125.6	1072.0	1012.5	970.8	958.9
41671.7	4228.5	69°	1631.8	1173.3	1054.1	1000.5	946.9	911.2	893.3
38360.3	3597.2	70°	1477.0	1107.8	1018.4	964.8	905.3	875.5	857.6
25734.3	2418.0	72.5°	1161.4	958.9	905.3	845.7	804.0	768.3	762.3
13519.3	1709.3	75°	958.9	821.9	780.2	732.5	690.9	655.1	655.1
5890.1	1226.9	77.5°	804.0	678.9	643.2	595.6	553.9	518.1	512.2
2828.9	887.4	80°	625.3	518.1	494.3	476.5	428.8	375.2	369.3
1494.9	637.3	82.5°	446.7	351.4	345.4	333.5	291.8	262.0	250.1
810.0	381.2	85°	279.9	202.5	184.6	160.8	142.9	142.9	142.9
393.1	166.8	87.5°	107.2	59.6	59.6	47.6	35.7	35.7	35.7
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)