

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: P628126

Luminaire Tested: **EPH-VN-03-E-735-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628126  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-735-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27002.9 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

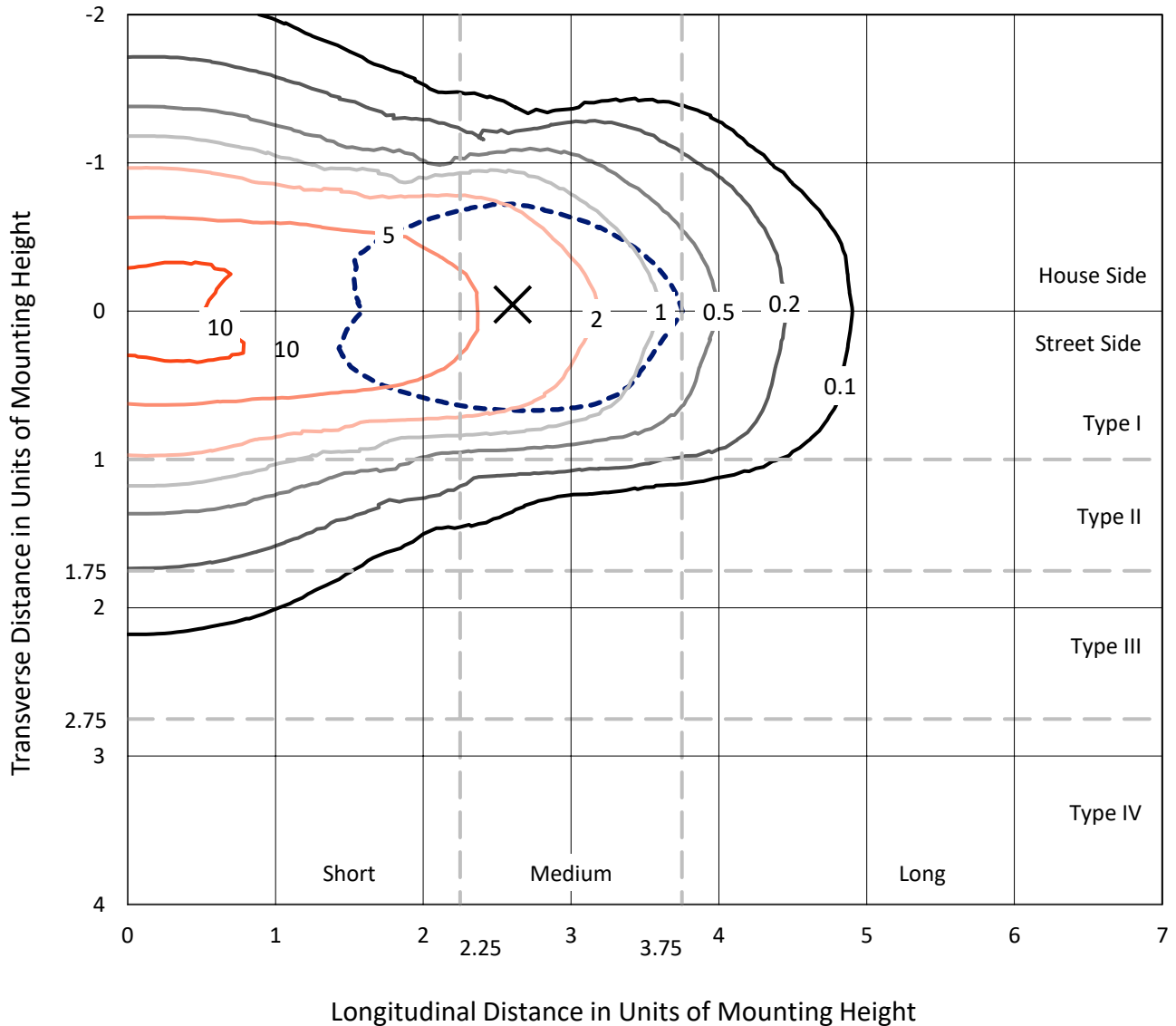
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

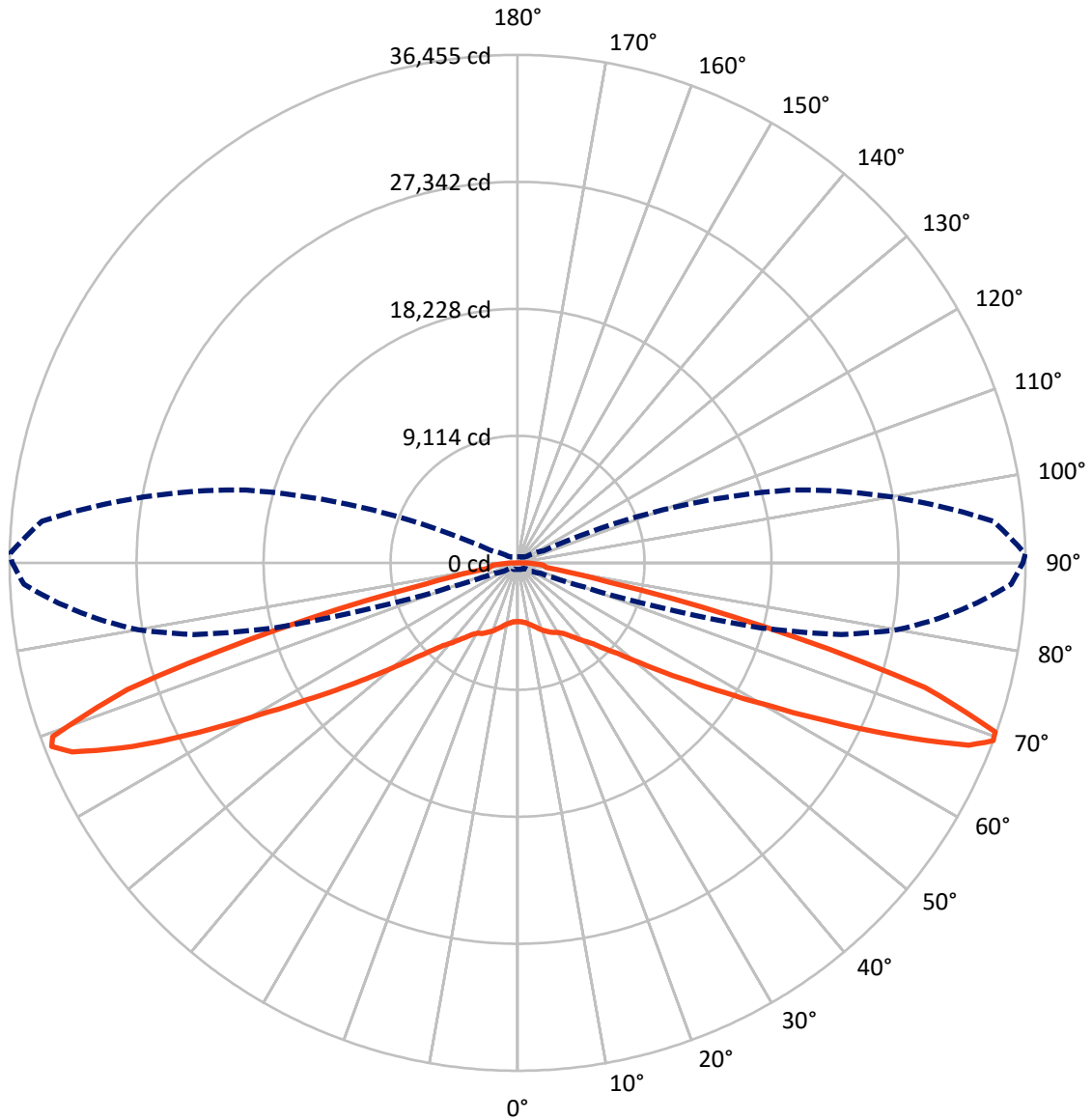
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 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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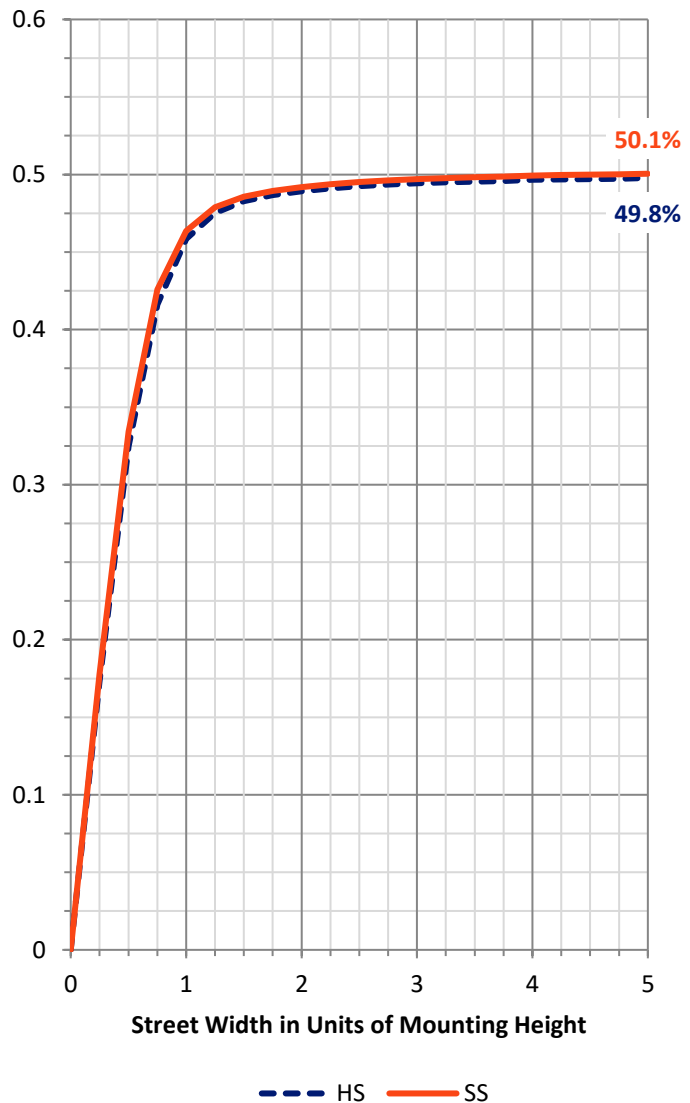
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13537.8	0.0	13537.8
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	13465.1	0.0	13465.1
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	27002.9	0.0	27002.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.4	1.6
10°-20°	1392.9	5.2
20°-30°	2388.6	8.8
30°-40°	3299.7	12.2
40°-50°	4242.5	15.7
50°-60°	5278.5	19.5
60°-70°	6473.9	24.0
70°-80°	3193.5	11.8
80°-90°	308.1	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°	27002.9	100.0
0°-180°	27002.9	100.0

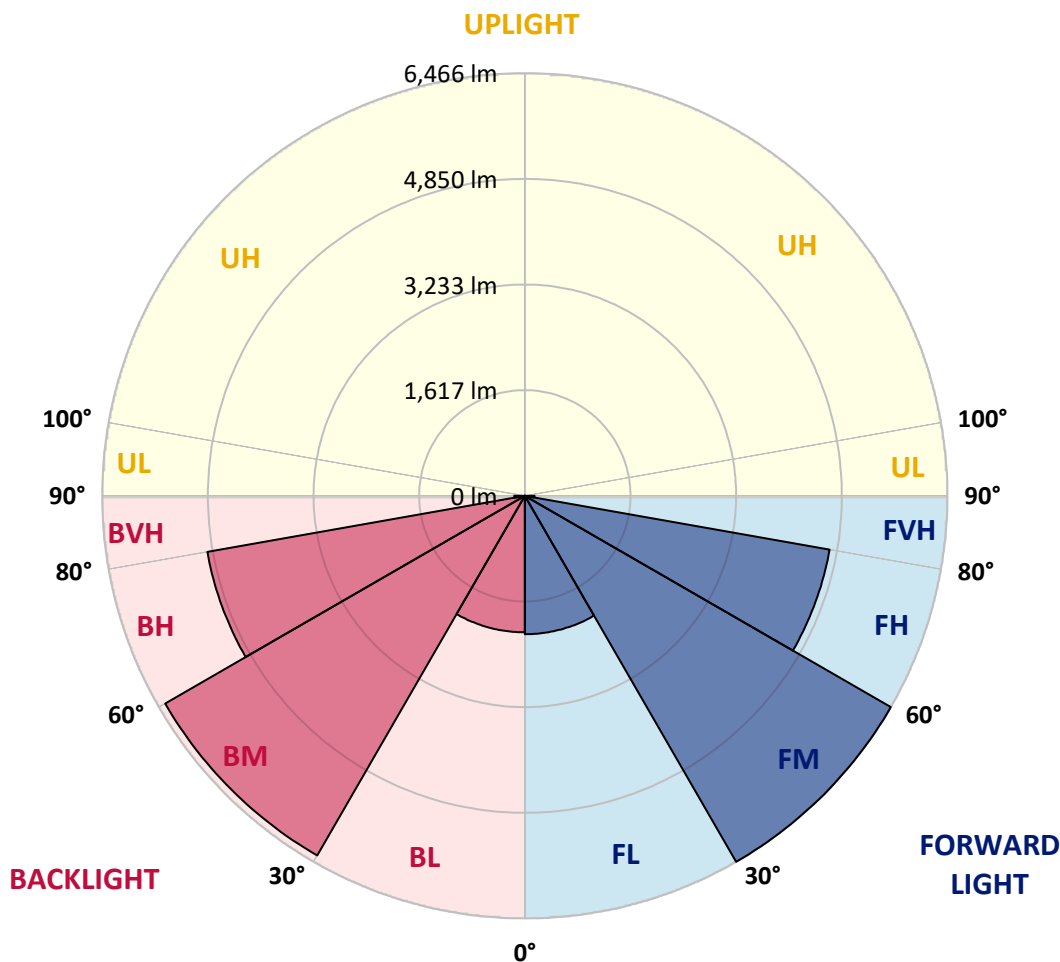


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2117.5	7.8			
FM	(30°-60°)	6466.3	23.9			
FH	(60°-80°)	4735.2	17.5			G2/5000
FVH	(80°-90°)	146.1	0.5			G2/225
BL	(0°-30°)	2089.3	7.7	B3/2500		
BM	(30°-60°)	6354.3	23.5	B4/8500		
BH	(60°-80°)	4932.2	18.3	B4/5000		G4/5000
BVH	(80°-90°)	162.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0
2.5°	4273.4	4310.9	4279.2	4293.6	4310.9	4302.3	4296.5	4256.2	4270.6	4253.3
5°	4423.3	4449.2	4429.1	4426.2	4408.9	4406.0	4388.7	4325.3	4354.1	4313.8
7.5°	4553.0	4578.9	4553.0	4561.6	4567.4	4550.1	4535.7	4466.5	4472.3	4446.3
10°	4648.1	4688.4	4659.6	4717.2	4717.2	4740.3	4720.1	4619.2	4622.1	4590.4
12.5°	4711.5	4760.4	4748.9	4844.0	4893.0	4904.5	4927.6	4841.1	4835.4	4774.8
15°	4665.3	4674.0	4734.5	4881.5	5051.5	5132.2	5172.5	5071.7	5077.4	5008.3
17.5°	4518.4	4547.2	4604.8	4861.3	5077.4	5316.6	5397.3	5339.6	5328.1	5250.3
20°	4357.0	4362.8	4457.9	4751.8	5086.1	5429.0	5668.2	5622.0	5619.2	5570.2
22.5°	4155.3	4158.2	4290.7	4616.4	5060.1	5480.8	5910.2	5970.7	5930.4	5884.3
25°	3904.6	3936.3	4091.9	4457.9	4970.8	5535.6	6051.4	6250.2	6235.8	6192.6
27.5°	3668.3	3691.4	3861.4	4233.1	4780.6	5454.9	6256.0	6604.7	6567.2	6498.1
30°	3455.1	3492.5	3668.3	4002.6	4544.3	5354.1	6391.4	6895.7	6938.9	6861.1
32.5°	3224.5	3270.6	3455.1	3800.9	4325.3	5259.0	6506.7	7238.6	7345.3	7255.9
35°	2994.0	3028.6	3213.0	3584.7	4166.8	5048.6	6529.8	7682.4	7815.0	7766.0
37.5°	2792.3	2824.0	3005.5	3360.0	3953.6	4893.0	6477.9	8051.3	8290.4	8423.0
40°	2567.5	2607.9	2786.5	3143.9	3671.2	4662.5	6414.5	8463.3	8806.2	8982.0
42.5°	2316.8	2371.6	2544.5	2913.3	3452.2	4377.2	6224.3	8740.0	9273.1	9584.3
45°	2051.7	2092.1	2279.4	2619.4	3192.8	4045.8	5956.3	9077.1	9774.5	10350.8
47.5°	1731.9	1757.8	1948.0	2305.3	2829.8	3702.9	5616.3	9336.5	10336.4	11059.7
50°	1383.2	1409.1	1561.8	1922.0	2432.1	3276.4	5094.7	9446.0	10731.2	11745.5
52.5°	1080.6	1100.8	1221.8	1492.7	1976.8	2789.4	4483.8	9420.0	10981.9	12457.3
55°	841.4	858.7	945.2	1149.8	1515.7	2213.1	3844.1	8944.6	11059.7	12955.8
57.5°	723.3	731.9	772.3	890.4	1161.3	1677.1	3031.5	8108.9	10676.4	13292.9
60°	636.8	639.7	671.4	752.1	899.1	1247.7	2216.0	6774.7	9722.6	13079.7
62.5°	593.6	596.5	613.8	668.5	743.5	942.3	1570.5	5204.2	8031.1	12200.8
65°	556.2	559.0	573.4	608.0	639.7	755.0	1155.5	3432.0	5786.3	9941.6
67.5°	507.2	512.9	527.3	556.2	582.1	628.2	878.9	2213.1	3642.4	6866.9
69°	475.5	481.2	495.6	518.7	541.7	585.0	760.7	1766.4	2749.1	5048.6
70°	452.4	458.2	475.5	498.5	518.7	559.0	700.2	1567.6	2348.5	4109.2
72.5°	394.8	400.5	412.1	435.1	458.2	487.0	564.8	1121.0	1596.4	2524.3
75°	337.1	340.0	348.7	371.7	394.8	417.8	475.5	792.4	1060.4	1550.3
77.5°	262.2	265.1	276.6	302.6	317.0	348.7	403.4	550.4	694.5	901.9
80°	190.2	198.8	213.2	236.3	244.9	262.2	311.2	394.8	458.2	553.3
82.5°	129.7	135.4	149.8	170.0	175.8	175.8	221.9	291.0	325.6	360.2
85°	74.9	77.8	74.9	86.4	100.9	103.7	144.1	175.8	201.7	233.4
87.5°	23.1	23.1	23.1	28.8	34.6	37.5	63.4	80.7	100.9	121.0
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°
4236.0	0°	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0
4256.2	2.5°	4244.6	4279.2	4238.9	4236.0	4233.1	4212.9	4227.3	4224.5	4256.2
4331.1	5°	4305.1	4305.1	4282.1	4299.4	4293.6	4227.3	4287.9	4287.9	4319.6
4426.2	7.5°	4391.6	4397.4	4385.8	4377.2	4365.7	4316.7	4354.1	4348.4	4374.3
4602.0	10°	4558.7	4553.0	4501.1	4501.1	4489.6	4437.7	4460.8	4478.0	4527.0
4772.0	12.5°	4740.3	4702.8	4708.6	4688.4	4650.9	4561.6	4596.2	4599.1	4648.1
5011.1	15°	4939.1	4898.8	4881.5	4864.2	4826.7	4743.2	4792.1	4763.3	4797.9
5230.1	17.5°	5207.1	5155.2	5094.7	5048.6	4993.9	4927.6	4950.6	4973.7	4996.7
5515.4	20°	5503.9	5420.3	5351.2	5276.3	5230.1	5146.6	5175.4	5178.3	5204.2
5815.1	22.5°	5740.2	5668.2	5590.3	5535.6	5440.5	5356.9	5325.2	5331.0	5377.1
6123.4	25°	6048.5	5918.9	5841.0	5751.7	5668.2	5524.1	5509.7	5515.4	5590.3
6469.2	27.5°	6316.5	6209.9	6080.2	5944.8	5823.8	5708.5	5691.2	5671.0	5760.4
6786.2	30°	6665.2	6506.7	6299.2	6169.6	5967.8	5806.5	5783.4	5803.6	5855.5
7250.2	32.5°	7039.8	6872.7	6653.7	6486.5	6241.6	6054.3	6028.4	6048.5	6143.6
7728.5	35°	7590.2	7408.7	7143.5	6887.1	6653.7	6449.1	6434.7	6403.0	6529.8
8385.5	37.5°	8250.1	8008.0	7757.3	7472.0	7224.2	6936.1	6852.5	6878.4	6982.2
9022.4	40°	8993.5	8763.0	8448.9	8123.3	7820.7	7515.3	7394.2	7377.0	7558.5
9852.3	42.5°	9852.3	9693.8	9235.6	8849.5	8451.8	8068.5	7924.5	7933.1	8100.2
10777.3	45°	10855.1	10736.9	10330.6	9846.5	9379.7	8892.7	8797.6	8803.4	9028.1
11612.9	47.5°	12039.4	12114.3	11731.1	11221.0	10644.7	10056.9	9826.3	9768.7	10019.4
12653.2	50°	13238.2	13710.8	13422.6	12935.6	12255.5	11561.1	11264.3	11160.5	11520.7
13684.8	52.5°	14641.5	15402.3	15491.6	15117.0	14353.4	13382.3	13053.8	12947.1	13405.3
14725.1	55°	16096.7	17258.0	17693.2	17745.0	16834.4	15768.2	15148.7	15024.8	15742.3
15635.7	57.5°	17566.4	19321.3	20211.7	20739.0	19975.4	18589.3	17707.6	17575.0	18845.8
16361.9	60°	19076.3	21456.6	22885.8	24217.2	23776.3	22237.5	20874.5	20880.2	22620.7
16673.1	62.5°	20180.0	23174.0	25450.5	27597.3	27995.0	26923.0	25196.9	25021.1	26862.5
15745.2	65°	20767.9	24796.4	27591.5	30138.9	31525.0	31473.1	30066.9	29911.2	31265.6
13059.5	67.5°	19889.0	24856.9	28360.9	30896.8	33438.4	34841.7	34663.0	34931.0	34135.7
10347.9	69°	18015.9	23787.8	27675.1	30510.6	33078.1	35449.7	36259.5	36455.4	34265.4
8564.2	70°	15958.4	22459.4	26531.1	29268.6	31625.8	34573.7	36308.4	36369.0	33118.5
4823.8	72.5°	9958.9	16834.4	20839.9	23456.4	24917.4	27709.7	30631.7	30582.7	26199.7
2697.2	75°	5230.1	9699.5	12964.4	14292.8	15111.2	16546.3	18523.1	18275.3	15748.1
1380.3	77.5°	2328.4	4120.7	5253.2	6005.3	6215.7	6633.5	6829.4	6668.1	6330.9
743.5	80°	1129.6	1705.9	2218.8	2345.6	2195.8	2092.1	2141.0	2118.0	2316.8
429.4	82.5°	561.9	783.8	884.7	1060.4	1561.8	1919.2	1973.9	1950.9	1749.1
259.3	85°	299.7	360.2	415.0	760.7	1397.6	1752.0	1803.9	1795.3	1616.6
141.2	87.5°	167.1	207.5	299.7	608.0	844.3	893.3	942.3	913.5	939.4
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°
4236.0	4236.0	0°	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0
4247.5	4285.0	2.5°	4261.9	4285.0	4296.5	4253.3	4279.2	4256.2	4261.9
4313.8	4362.8	5°	4334.0	4388.7	4380.1	4380.1	4385.8	4351.3	4365.7
4374.3	4446.3	7.5°	4478.0	4498.2	4544.3	4527.0	4509.7	4475.2	4480.9
4538.6	4607.7	10°	4674.0	4674.0	4702.8	4674.0	4619.2	4596.2	4590.4
4705.7	4835.4	12.5°	4864.2	4835.4	4852.7	4769.1	4705.7	4659.6	4682.6
4855.5	5005.4	15°	5034.2	5028.4	4965.0	4858.4	4702.8	4619.2	4625.0
5114.9	5247.4	17.5°	5287.8	5235.9	5068.8	4792.1	4599.1	4518.4	4478.0
5356.9	5509.7	20°	5538.5	5394.4	5057.2	4685.5	4429.1	4296.5	4299.4
5561.5	5780.5	22.5°	5757.5	5454.9	5016.9	4550.1	4273.4	4094.8	4091.9
5849.7	6062.9	25°	5967.8	5420.3	4936.2	4426.2	4100.5	3927.7	3904.6
6103.3	6379.9	27.5°	6132.1	5388.6	4740.3	4227.3	3864.3	3723.1	3708.6
6333.8	6728.6	30°	6235.8	5319.5	4564.5	3993.9	3645.3	3506.9	3501.2
6757.4	7025.4	32.5°	6354.0	5212.9	4334.0	3786.5	3452.2	3302.3	3293.7
7255.9	7463.4	35°	6463.5	5051.5	4146.7	3590.5	3250.5	3074.7	3048.8
7863.9	7959.0	37.5°	6486.5	4872.8	3913.2	3357.1	2999.8	2829.8	2826.9
8639.1	8388.4	40°	6489.4	4656.7	3665.4	3123.7	2754.8	2581.9	2570.4
9477.7	8751.5	42.5°	6374.1	4408.9	3417.6	2847.0	2501.2	2296.7	2282.2
10477.6	9195.3	45°	6109.0	4112.1	3100.6	2541.6	2221.7	2031.5	2008.5
11659.0	9595.8	47.5°	5754.6	3740.3	2780.8	2230.4	1904.8	1731.9	1717.4
12947.1	9855.1	50°	5276.3	3322.5	2394.6	1893.2	1584.9	1443.7	1409.1
14451.3	9889.7	52.5°	4682.6	2844.2	1991.2	1541.7	1291.0	1167.1	1146.9
16093.9	9601.6	55°	3973.8	2328.4	1590.7	1230.5	1002.8	907.7	890.4
17612.5	8872.5	57.5°	3184.2	1792.4	1224.7	950.9	804.0	737.7	717.5
19301.1	7515.3	60°	2380.2	1351.5	939.4	755.0	657.0	610.9	602.3
20808.2	5838.2	62.5°	1711.7	1017.2	737.7	631.1	576.3	553.3	547.5
21658.3	3921.9	65°	1259.3	783.8	613.8	570.6	530.2	510.0	501.4
21514.2	2567.5	67.5°	936.5	628.2	544.6	518.7	489.9	469.7	463.9
20162.7	2046.0	69°	789.6	567.7	510.0	484.1	458.2	440.9	432.2
18560.5	1740.5	70°	714.6	536.0	492.8	466.8	438.0	423.6	415.0
12451.5	1169.9	72.5°	561.9	463.9	438.0	409.2	389.0	371.7	368.8
6541.3	827.0	75°	463.9	397.7	377.5	354.4	334.3	317.0	317.0
2849.9	593.6	77.5°	389.0	328.5	311.2	288.2	268.0	250.7	247.8
1368.8	429.4	80°	302.6	250.7	239.2	230.5	207.5	181.5	178.7
723.3	308.3	82.5°	216.1	170.0	167.1	161.4	141.2	126.8	121.0
391.9	184.4	85°	135.4	98.0	89.3	77.8	69.2	69.2	69.2
190.2	80.7	87.5°	51.9	28.8	28.8	23.1	17.3	17.3	17.3
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)