

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: P628134

Luminaire Tested: **EPH-VN-06-E-740-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-740-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53706.8 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

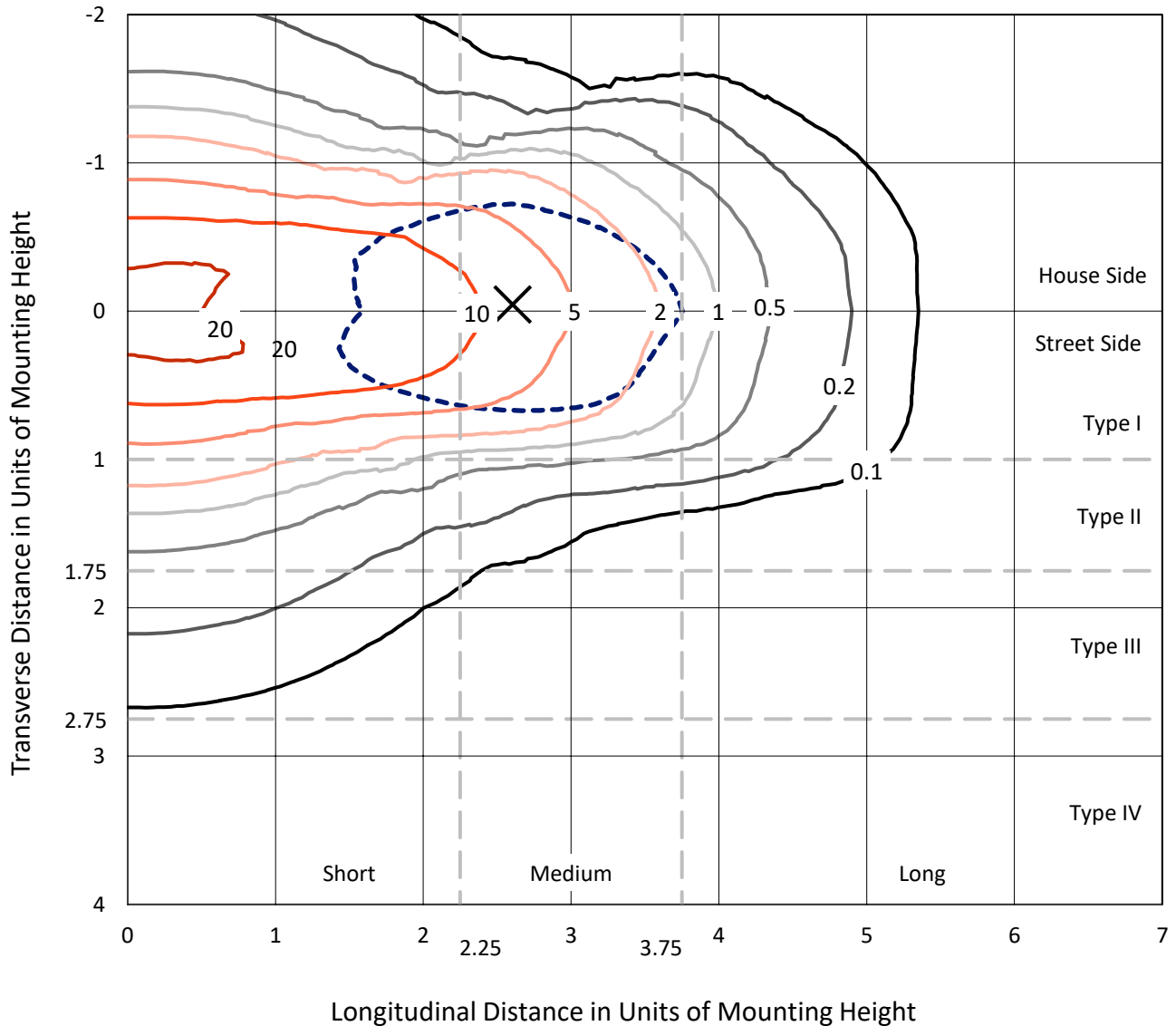
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

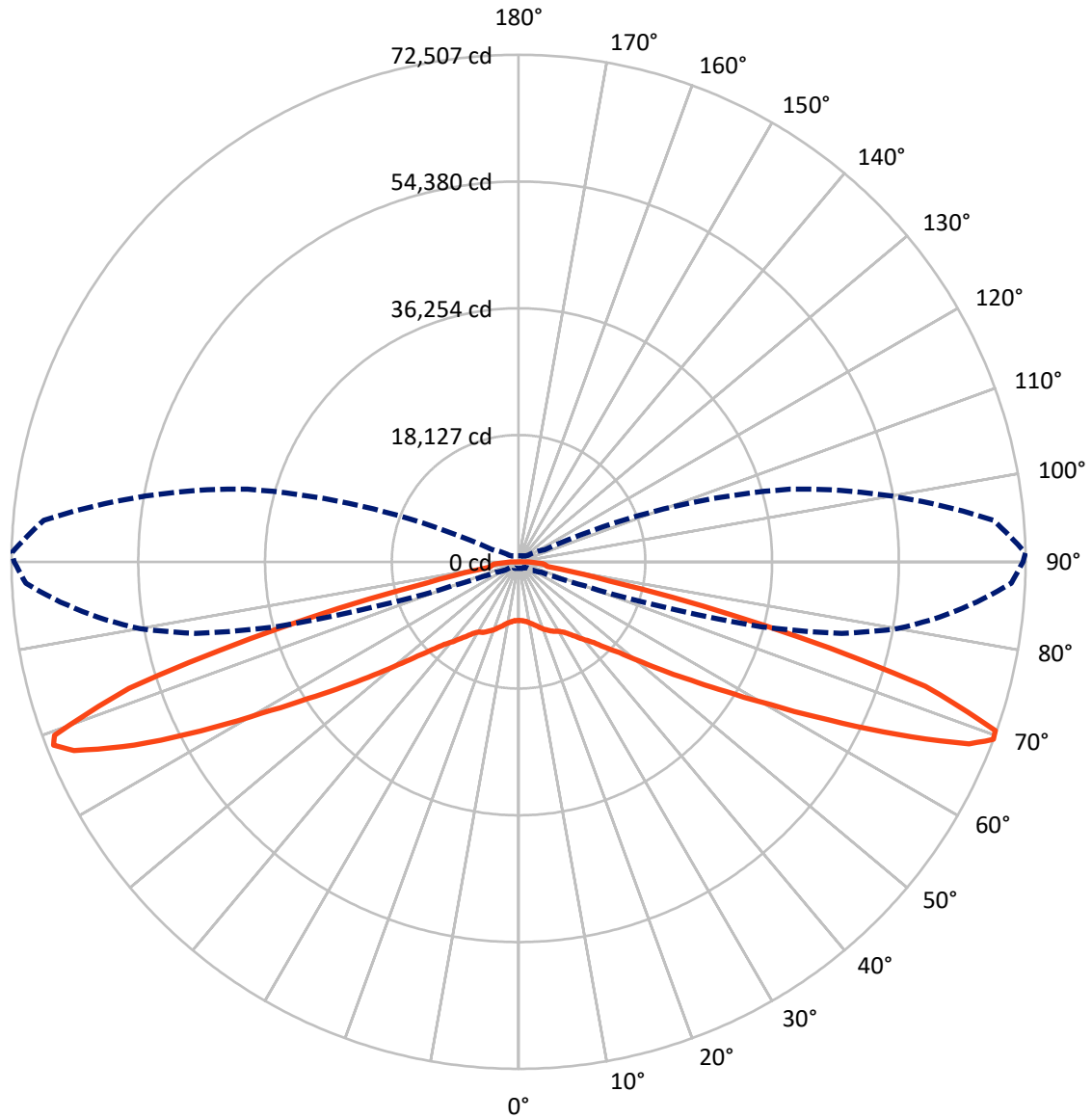
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.9 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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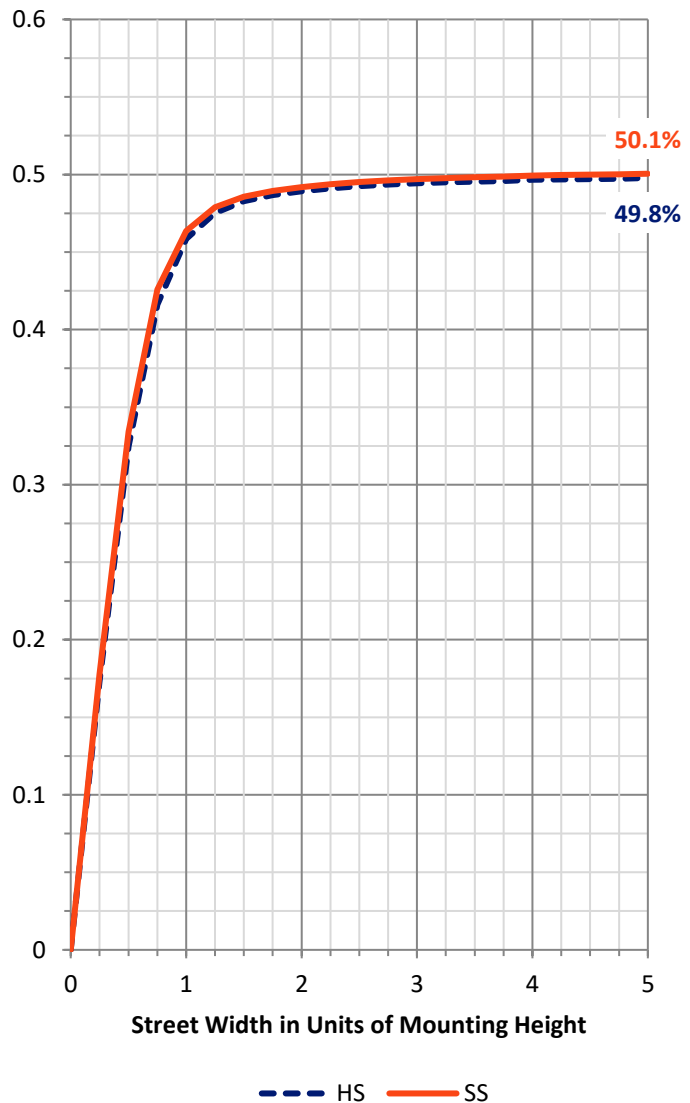
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26925.7	0.0	26925.7
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	26781.1	0.0	26781.1
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	53706.8	0.0	53706.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.1	1.6
10°-20°	2770.3	5.2
20°-30°	4750.7	8.8
30°-40°	6562.8	12.2
40°-50°	8437.9	15.7
50°-60°	10498.5	19.5
60°-70°	12876.1	24.0
70°-80°	6351.7	11.8
80°-90°	612.7	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°	53706.8	100.0
0°-180°	53706.8	100.0

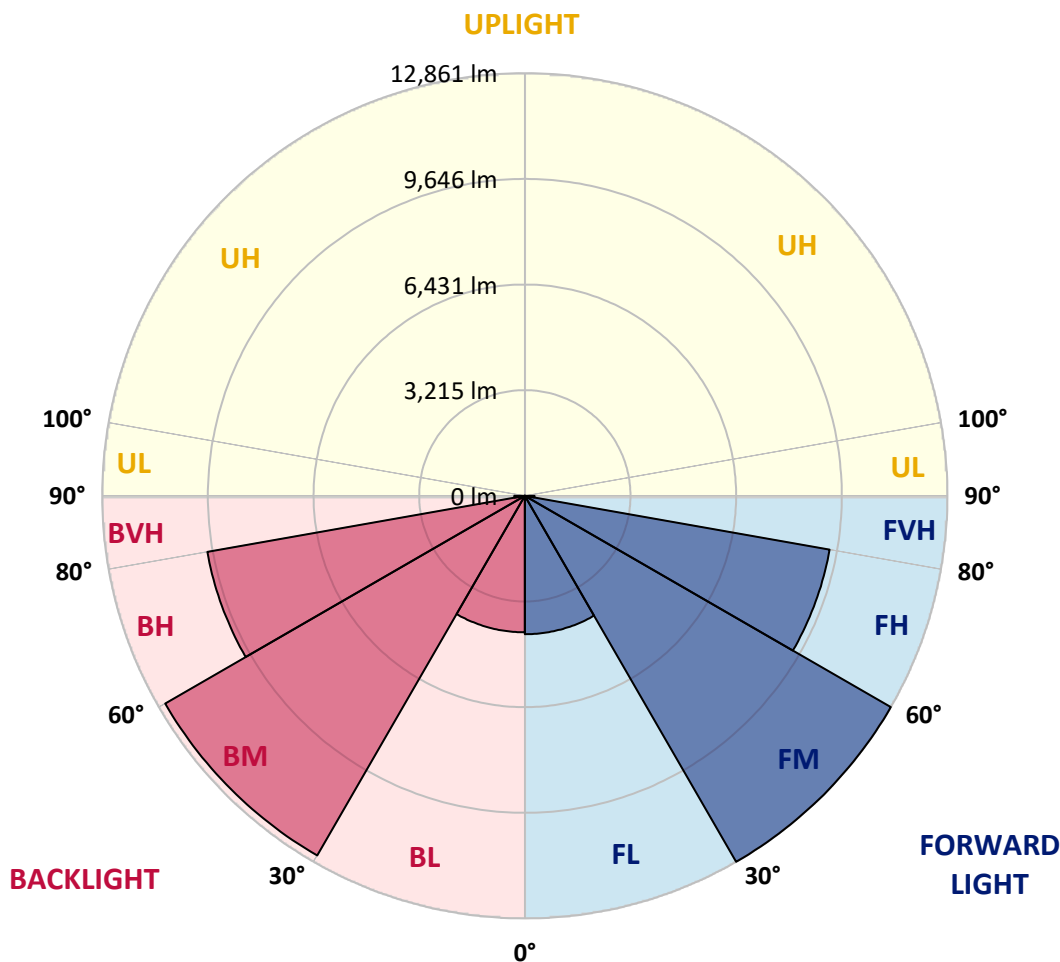


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4211.6	7.8			
FM (30°-60°)	12861.0	23.9			
FH (60°-80°)	9418.0	17.5			G4/12000
FVH (80°-90°)	290.6	0.5			G3/500
BL (0°-30°)	4155.5	7.7	B4/5000		
BM (30°-60°)	12638.2	23.5	B5		
BH (60°-80°)	9809.9	18.3	B5		G5
BVH (80°-90°)	322.2	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°	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1
2.5°	8499.6	8574.1	8511.0	8539.7	8574.1	8556.9	8545.4	8465.2	8493.8	8459.4
5°	8797.6	8849.2	8809.1	8803.3	8768.9	8763.2	8728.8	8602.7	8660.0	8579.8
7.5°	9055.5	9107.1	9055.5	9072.7	9084.2	9049.8	9021.1	8883.6	8895.0	8843.4
10°	9244.6	9324.9	9267.6	9382.2	9382.2	9428.0	9387.9	9187.3	9193.1	9130.0
12.5°	9370.7	9468.2	9445.2	9634.4	9731.8	9754.7	9800.6	9628.6	9617.2	9496.8
15°	9279.0	9296.2	9416.6	9708.9	10047.0	10207.5	10287.7	10087.1	10098.6	9961.1
17.5°	8986.7	9044.0	9158.7	9668.8	10098.6	10574.3	10734.8	10620.2	10597.2	10442.5
20°	8665.8	8677.2	8866.4	9451.0	10115.8	10797.8	11273.5	11181.8	11176.1	11078.7
22.5°	8264.6	8270.3	8534.0	9181.6	10064.2	10901.0	11755.0	11875.3	11795.1	11703.4
25°	7766.0	7829.0	8138.5	8866.4	9886.5	11009.9	12035.8	12431.3	12402.6	12316.6
27.5°	7296.0	7341.8	7680.0	8419.3	9508.3	10849.4	12442.7	13136.2	13061.7	12924.1
30°	6871.9	6946.4	7296.0	7960.8	9038.3	10648.8	12712.1	13715.1	13801.0	13646.3
32.5°	6413.4	6505.1	6871.9	7559.6	8602.7	10459.7	12941.3	14397.1	14609.2	14431.5
35°	5954.9	6023.6	6390.4	7129.8	8287.5	10041.3	12987.2	15279.7	15543.4	15445.9
37.5°	5553.7	5616.7	5977.8	6682.7	7863.4	9731.8	12884.0	16013.3	16489.0	16752.7
40°	5106.6	5186.9	5542.2	6252.9	7301.7	9273.3	12757.9	16832.9	17514.9	17864.6
42.5°	4608.0	4716.9	5060.8	5794.4	6866.1	8705.9	12379.7	17383.1	18443.4	19062.4
45°	4080.7	4160.9	4533.5	5209.8	6350.3	8046.8	11846.7	18053.7	19440.7	20586.9
47.5°	3444.5	3496.1	3874.4	4585.1	5628.2	7364.8	11170.4	18569.5	20558.3	21996.8
50°	2751.0	2802.6	3106.4	3822.8	4837.2	6516.5	10133.0	18787.3	21343.5	23360.9
52.5°	2149.2	2189.4	2430.1	2968.8	3931.7	5547.9	8917.9	18735.7	21842.1	24776.5
55°	1673.5	1707.9	1879.9	2286.8	3014.7	4401.7	7645.6	17790.0	21996.8	25768.1
57.5°	1438.6	1455.8	1536.0	1771.0	2309.7	3335.6	6029.4	16128.0	21234.6	26438.6
60°	1266.6	1272.4	1335.4	1495.9	1788.2	2481.7	4407.4	13474.4	19337.5	26014.5
62.5°	1180.7	1186.4	1220.8	1329.7	1478.7	1874.1	3123.6	10350.8	15973.2	24266.5
65°	1106.1	1111.9	1140.5	1209.3	1272.4	1501.6	2298.3	6826.0	11508.5	19773.1
67.5°	1008.7	1020.2	1048.8	1106.1	1157.7	1249.4	1748.1	4401.7	7244.4	13657.8
69°	945.7	957.1	985.8	1031.6	1077.5	1163.5	1513.1	3513.3	5467.7	10041.3
70°	899.8	911.3	945.7	991.5	1031.6	1111.9	1392.7	3117.8	4671.0	8172.9
72.5°	785.2	796.7	819.6	865.4	911.3	968.6	1123.3	2229.5	3175.2	5020.6
75°	670.6	676.3	693.5	739.3	785.2	831.0	945.7	1576.1	2109.1	3083.5
77.5°	521.6	527.3	550.2	601.8	630.4	693.5	802.4	1094.7	1381.3	1793.9
80°	378.3	395.5	424.1	470.0	487.2	521.6	619.0	785.2	911.3	1100.4
82.5°	257.9	269.4	298.0	338.1	349.6	349.6	441.3	578.9	647.6	716.4
85°	149.0	154.7	149.0	171.9	200.6	206.3	286.6	349.6	401.2	464.2
87.5°	45.9	45.9	45.9	57.3	68.8	74.5	126.1	160.5	200.6	240.7
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°
8425.1	0°	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1
8465.2	2.5°	8442.2	8511.0	8430.8	8425.1	8419.3	8379.2	8407.9	8402.1	8465.2
8614.2	5°	8562.6	8562.6	8516.8	8551.1	8539.7	8407.9	8528.2	8528.2	8591.3
8803.3	7.5°	8734.5	8746.0	8723.1	8705.9	8683.0	8585.5	8660.0	8648.6	8700.2
9152.9	10°	9067.0	9055.5	8952.3	8952.3	8929.4	8826.2	8872.1	8906.5	9003.9
9491.1	12.5°	9428.0	9353.5	9365.0	9324.9	9250.4	9072.7	9141.5	9147.2	9244.6
9966.8	15°	9823.5	9743.3	9708.9	9674.5	9600.0	9433.8	9531.2	9473.9	9542.7
10402.4	17.5°	10356.5	10253.3	10133.0	10041.3	9932.4	9800.6	9846.4	9892.3	9938.1
10969.8	20°	10946.8	10780.6	10643.1	10494.1	10402.4	10236.2	10293.5	10299.2	10350.8
11565.8	22.5°	11416.8	11273.5	11118.8	11009.9	10820.8	10654.5	10591.5	10603.0	10694.7
12179.1	25°	12030.1	11772.2	11617.4	11439.7	11273.5	10987.0	10958.3	10969.8	11118.8
12866.8	27.5°	12563.1	12351.0	12093.1	11823.7	11583.0	11353.8	11319.4	11279.3	11456.9
13497.3	30°	13256.6	12941.3	12528.7	12270.8	11869.6	11548.6	11502.8	11542.9	11646.1
14420.0	32.5°	14001.6	13669.2	13233.6	12901.2	12414.1	12041.5	11989.9	12030.1	12219.2
15371.4	35°	15096.3	14735.3	14208.0	13697.9	13233.6	12826.7	12798.1	12735.0	12987.2
16678.2	37.5°	16408.8	15927.4	15428.7	14861.3	14368.4	13795.3	13629.1	13680.7	13887.0
17944.8	40°	17887.5	17429.0	16804.3	16156.6	15554.8	14947.3	14706.6	14672.2	15033.3
19595.4	42.5°	19595.4	19280.2	18368.9	17600.9	16810.0	16047.7	15761.2	15778.4	16110.8
21435.2	45°	21589.9	21354.9	20546.8	19584.0	18655.5	17686.9	17497.8	17509.2	17956.3
23097.3	47.5°	23945.5	24094.5	23332.2	22317.8	21171.5	20002.3	19543.8	19429.2	19927.8
25166.3	50°	26329.7	27269.7	26696.5	25727.9	24375.3	22994.1	22403.8	22197.4	22913.9
27218.1	52.5°	29120.9	30634.0	30811.6	30066.6	28547.8	26616.3	25962.9	25750.9	26662.1
29287.1	55°	32015.2	34324.9	35190.4	35293.5	33482.4	31361.8	30129.6	29883.2	31310.3
31098.2	57.5°	34938.2	38428.6	40199.6	41248.4	39729.6	36972.8	35219.0	34955.4	37482.9
32542.5	60°	37941.4	42675.5	45518.2	48166.1	47289.2	44228.7	41517.8	41529.2	44990.9
33161.5	62.5°	40136.5	46091.4	50619.1	54888.9	55679.9	53547.8	50114.8	49765.1	53427.5
31316.0	65°	41305.7	49318.1	54877.5	59944.0	62700.8	62597.6	59800.7	59491.2	62184.9
25974.4	67.5°	39557.6	49438.5	56407.8	61451.3	66506.4	69297.5	68942.2	69475.2	67893.3
20581.2	69°	35832.3	47312.1	55043.7	60683.3	65789.9	70506.8	72117.3	72507.1	68151.2
17033.5	70°	31740.1	44670.0	52768.4	58213.1	62901.3	68764.5	72214.8	72335.1	65870.2
9594.2	72.5°	19807.5	33482.4	41449.0	46653.0	49558.8	55112.5	60924.0	60826.6	52109.3
5364.5	75°	10402.4	19291.7	25785.3	28427.4	30055.1	32909.3	36841.0	36348.1	31321.7
2745.3	77.5°	4630.9	8195.8	10448.2	11944.1	12362.5	13193.5	13583.3	13262.3	12591.7
1478.7	80°	2246.7	3392.9	4413.1	4665.3	4367.3	4160.9	4258.4	4212.5	4608.0
854.0	82.5°	1117.6	1558.9	1759.5	2109.1	3106.4	3817.1	3926.0	3880.1	3478.9
515.8	85°	596.1	716.4	825.3	1513.1	2779.7	3484.6	3587.8	3570.6	3215.3
280.8	87.5°	332.4	412.7	596.1	1209.3	1679.3	1776.7	1874.1	1816.8	1868.4
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°
8425.1	8425.1	0°	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1	8425.1
8448.0	8522.5	2.5°	8476.6	8522.5	8545.4	8459.4	8511.0	8465.2	8476.6
8579.8	8677.2	5°	8619.9	8728.8	8711.6	8711.6	8723.1	8654.3	8683.0
8700.2	8843.4	7.5°	8906.5	8946.6	9038.3	9003.9	8969.5	8900.8	8912.2
9026.8	9164.4	10°	9296.2	9296.2	9353.5	9296.2	9187.3	9141.5	9130.0
9359.3	9617.2	12.5°	9674.5	9617.2	9651.6	9485.4	9359.3	9267.6	9313.4
9657.3	9955.3	15°	10012.6	10001.2	9875.1	9663.0	9353.5	9187.3	9198.8
10173.1	10436.8	17.5°	10517.0	10413.8	10081.4	9531.2	9147.2	8986.7	8906.5
10654.5	10958.3	20°	11015.6	10729.1	10058.5	9319.1	8809.1	8545.4	8551.1
11061.5	11497.0	22.5°	11451.2	10849.4	9978.2	9049.8	8499.6	8144.2	8138.5
11634.6	12058.7	25°	11869.6	10780.6	9817.8	8803.3	8155.7	7811.8	7766.0
12139.0	12689.2	27.5°	12196.3	10717.6	9428.0	8407.9	7685.7	7404.9	7376.2
12597.5	13382.7	30°	12402.6	10580.0	9078.4	7943.6	7250.1	6975.0	6963.6
13440.0	13973.0	32.5°	12637.6	10368.0	8619.9	7531.0	6866.1	6568.1	6550.9
14431.5	14844.1	35°	12855.4	10047.0	8247.4	7141.2	6464.9	6115.3	6063.7
15640.8	15829.9	37.5°	12901.2	9691.7	7783.1	6677.0	5966.3	5628.2	5622.4
17182.5	16683.9	40°	12907.0	9261.8	7290.3	6212.8	5479.2	5135.3	5112.3
18850.3	17406.0	42.5°	12677.7	8768.9	6797.4	5662.6	4974.8	4567.9	4539.2
20839.1	18288.7	45°	12150.4	8178.6	6166.9	5055.0	4418.9	4040.6	3994.7
23189.0	19085.3	47.5°	11445.5	7439.3	5530.7	4436.0	3788.4	3444.5	3415.9
25750.9	19601.1	50°	10494.1	6608.2	4762.7	3765.5	3152.2	2871.4	2802.6
28742.6	19669.9	52.5°	9313.4	5656.8	3960.3	3066.3	2567.6	2321.2	2281.1
32009.5	19096.8	55°	7903.5	4630.9	3163.7	2447.3	1994.5	1805.4	1771.0
35029.9	17646.8	57.5°	6333.1	3564.9	2435.8	1891.3	1599.0	1467.2	1427.1
38388.4	14947.3	60°	4734.1	2688.0	1868.4	1501.6	1306.7	1215.0	1197.8
41385.9	11611.7	62.5°	3404.4	2023.2	1467.2	1255.2	1146.3	1100.4	1089.0
43076.7	7800.3	65°	2504.6	1558.9	1220.8	1134.8	1054.6	1014.4	997.3
42790.1	5106.6	67.5°	1862.7	1249.4	1083.2	1031.6	974.3	934.2	922.7
40102.1	4069.2	69°	1570.4	1129.1	1014.4	962.9	911.3	876.9	859.7
36915.5	3461.7	70°	1421.4	1066.0	980.1	928.5	871.2	842.5	825.3
24765.1	2326.9	72.5°	1117.6	922.7	871.2	813.8	773.7	739.3	733.6
13010.1	1644.9	75°	922.7	790.9	750.8	705.0	664.8	630.4	630.4
5668.3	1180.7	77.5°	773.7	653.4	619.0	573.1	533.0	498.6	492.9
2722.4	854.0	80°	601.8	498.6	475.7	458.5	412.7	361.1	355.3
1438.6	613.3	82.5°	429.8	338.1	332.4	321.0	280.8	252.2	240.7
779.5	366.8	85°	269.4	194.9	177.7	154.7	137.6	137.6	137.6
378.3	160.5	87.5°	103.2	57.3	57.3	45.9	34.4	34.4	34.4
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)