

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: P628125

Luminaire Tested: **EPH-VN-08-E-730-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628125  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-730-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63280.1 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

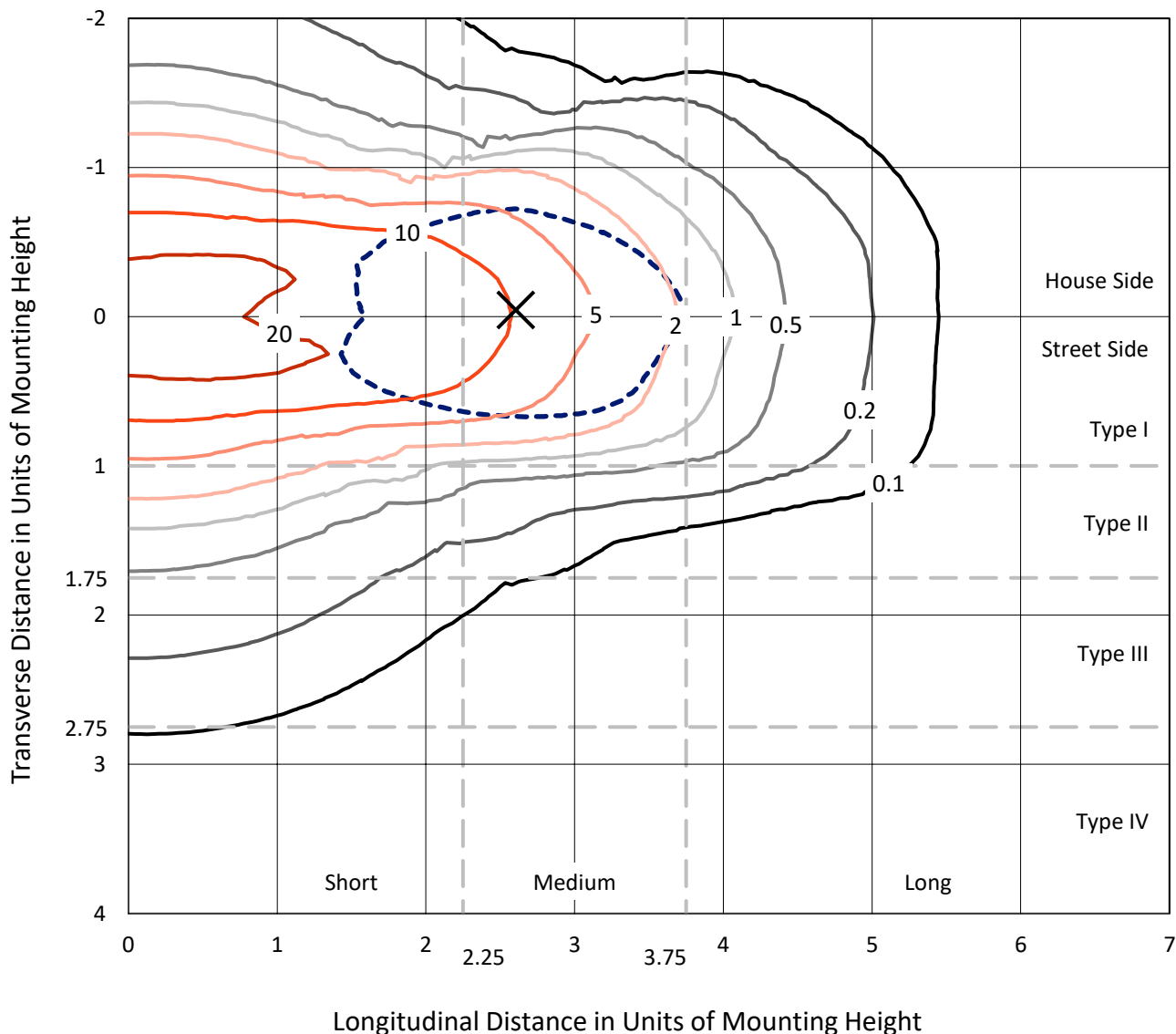
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

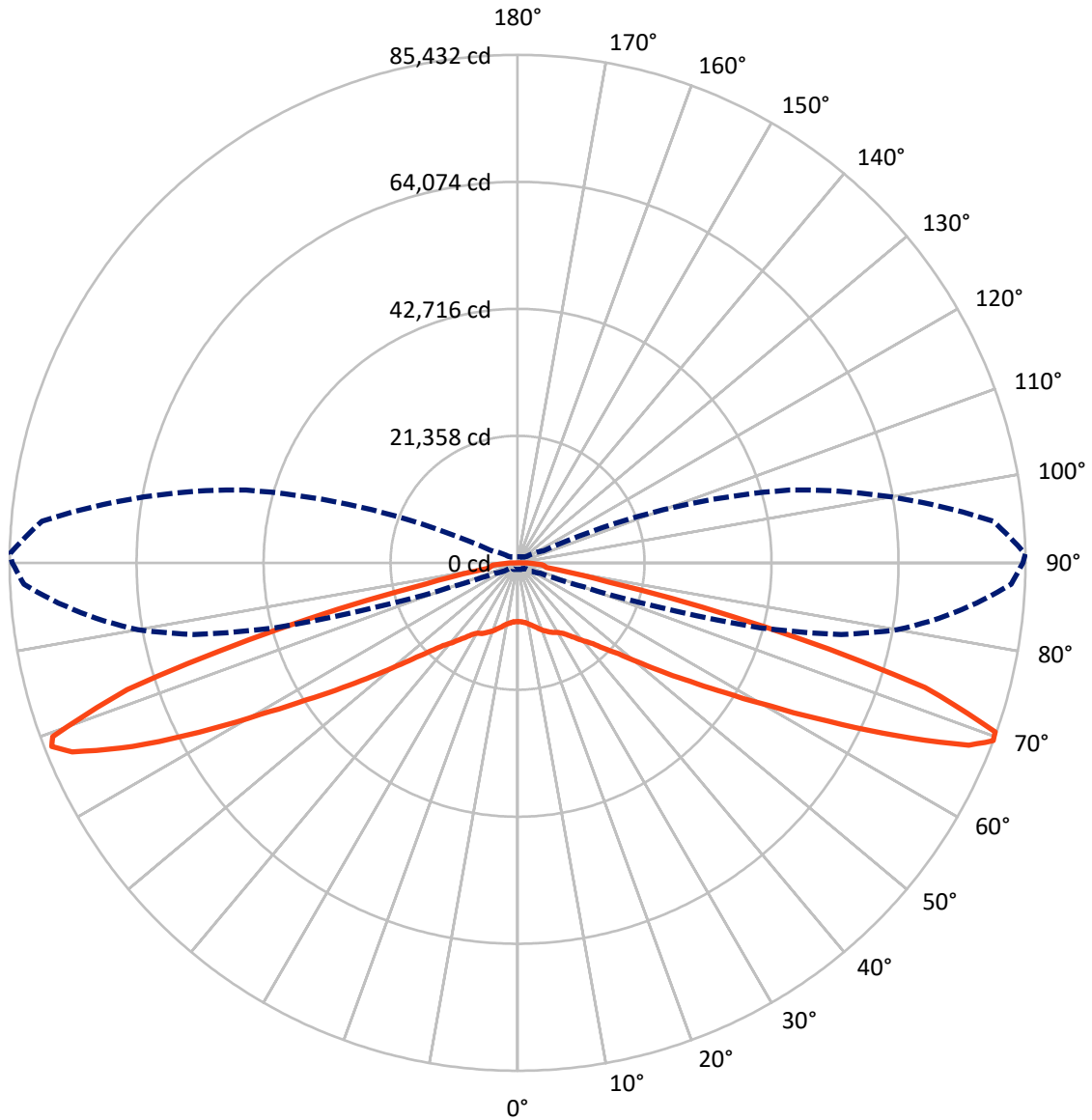
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27 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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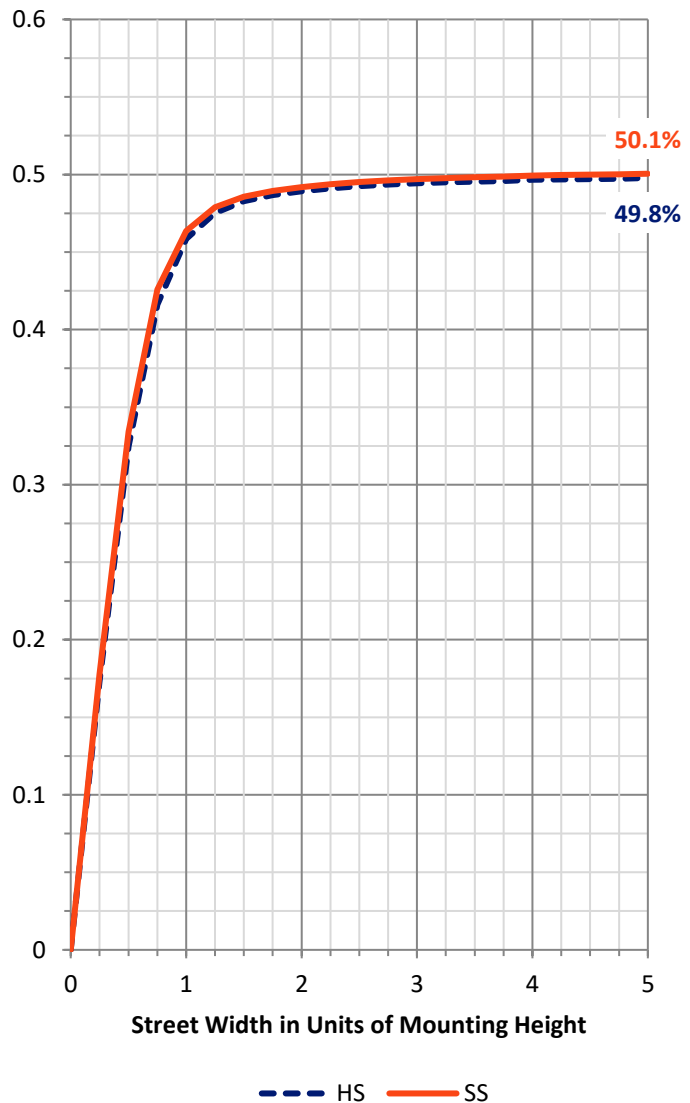
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31725.2	0.0	31725.2
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	31554.9	0.0	31554.9
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	63280.1	0.0	63280.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	996.9	1.6
10°-20°	3264.1	5.2
20°-30°	5597.5	8.8
30°-40°	7732.6	12.2
40°-50°	9942.0	15.7
50°-60°	12369.8	19.5
60°-70°	15171.3	24.0
70°-80°	7483.9	11.8
80°-90°	721.9	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°	63280.1	100.0
0°-180°	63280.1	100.0

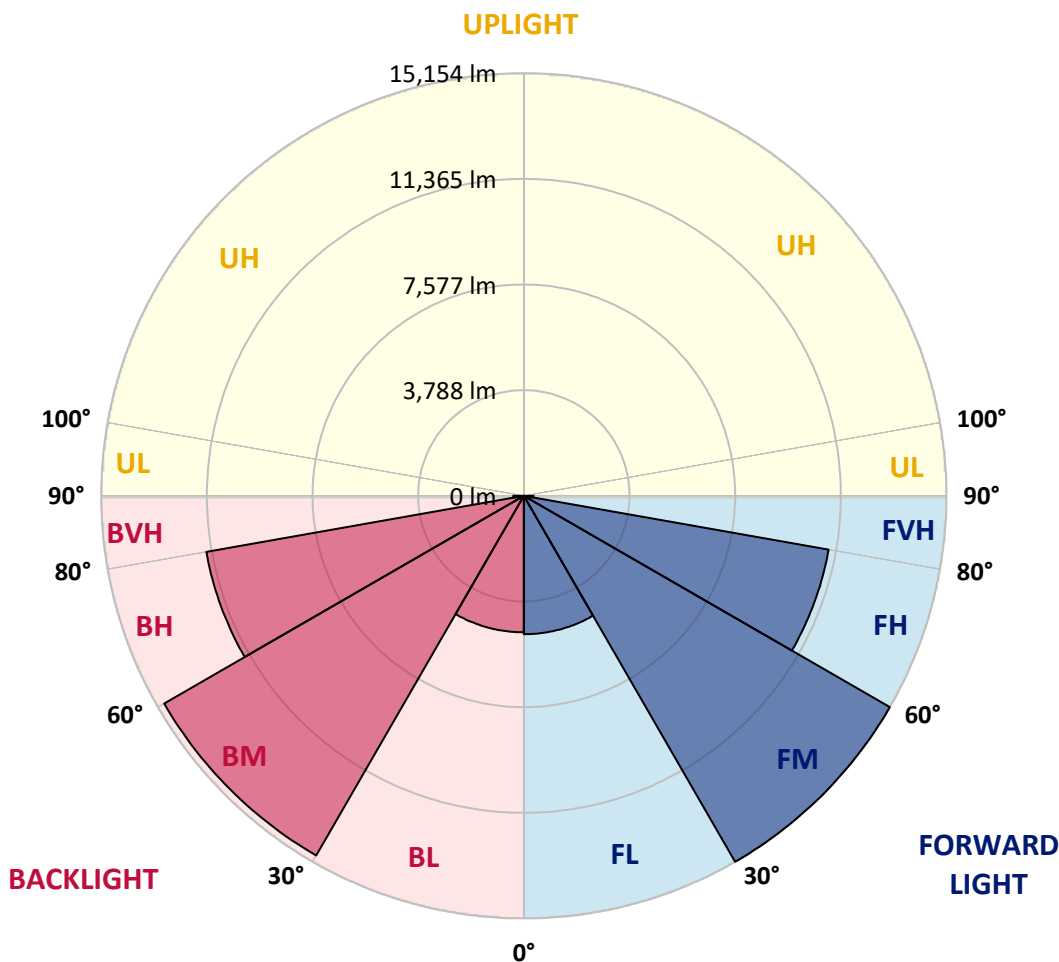


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4962.3	7.8			
FM (30°-60°)	15153.5	23.9			
FH (60°-80°)	11096.7	17.5			G4/12000
FVH (80°-90°)	342.3	0.5			G3/500
BL (0°-30°)	4896.2	7.7	B4/5000		
BM (30°-60°)	14890.9	23.5	B5		
BH (60°-80°)	11558.5	18.3	B5		G5
BVH (80°-90°)	379.6	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°	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8
2.5°	10014.6	10102.4	10028.1	10061.9	10102.4	10082.2	10068.6	9974.1	10007.9	9967.4
5°	10365.8	10426.6	10379.3	10372.5	10332.0	10325.3	10284.7	10136.2	10203.7	10109.2
7.5°	10669.7	10730.4	10669.7	10689.9	10703.4	10662.9	10629.1	10467.1	10480.6	10419.8
10°	10892.5	10987.0	10919.5	11054.6	11054.6	11108.6	11061.3	10825.0	10831.7	10757.4
12.5°	11041.1	11155.9	11128.9	11351.7	11466.5	11493.5	11547.5	11345.0	11331.4	11189.6
15°	10933.0	10953.3	11095.1	11439.5	11837.9	12027.0	12121.5	11885.2	11898.7	11736.6
17.5°	10588.6	10656.2	10791.2	11392.2	11898.7	12459.2	12648.3	12513.2	12486.2	12303.9
20°	10210.5	10224.0	10446.8	11135.6	11919.0	12722.6	13283.1	13175.0	13168.3	13053.5
22.5°	9737.8	9744.5	10055.1	10818.2	11858.2	12844.1	13850.3	13992.1	13897.6	13789.5
25°	9150.2	9224.5	9589.2	10446.8	11648.8	12972.4	14181.2	14647.1	14613.4	14512.1
27.5°	8596.5	8650.5	9049.0	9920.1	11203.1	12783.3	14660.7	15477.8	15390.0	15227.9
30°	8096.8	8184.6	8596.5	9379.8	10649.4	12547.0	14978.0	16159.8	16261.1	16078.8
32.5°	7556.5	7664.6	8096.8	8907.1	10136.2	12324.1	15248.2	16963.4	17213.3	17003.9
35°	7016.3	7097.3	7529.5	8400.7	9764.8	11831.2	15302.2	18003.4	18314.0	18199.2
37.5°	6543.6	6617.9	7043.3	7873.9	9265.0	11466.5	15180.6	18867.7	19428.2	19738.9
40°	6016.9	6111.4	6530.1	7367.5	8603.3	10926.3	15032.1	19833.4	20637.0	21048.9
42.5°	5429.4	5557.7	5962.9	6827.2	8090.0	10257.7	14586.4	20481.7	21731.0	22460.3
45°	4808.1	4902.6	5341.6	6138.4	7482.3	9481.1	13958.3	21271.8	22906.0	24256.6
47.5°	4058.5	4119.3	4565.0	5402.4	6631.4	8677.5	13161.5	21879.6	24222.8	25917.8
50°	3241.4	3302.2	3660.1	4504.2	5699.5	7678.1	11939.2	22136.2	25148.0	27525.0
52.5°	2532.4	2579.6	2863.3	3498.0	4632.5	6536.9	10507.6	22075.4	25735.5	29193.0
55°	1971.9	2012.4	2215.0	2694.4	3552.1	5186.3	9008.4	20961.2	25917.8	30361.3
57.5°	1695.0	1715.2	1809.8	2086.7	2721.4	3930.2	7104.1	19002.8	25019.7	31151.4
60°	1492.4	1499.2	1573.4	1762.5	2106.9	2924.0	5193.0	15876.2	22784.4	30651.6
62.5°	1391.1	1397.9	1438.4	1566.7	1742.3	2208.2	3680.4	12195.8	18820.5	28592.0
65°	1303.3	1310.1	1343.8	1424.9	1499.2	1769.3	2707.9	8042.8	13559.9	23297.7
67.5°	1188.5	1202.0	1235.8	1303.3	1364.1	1472.1	2059.6	5186.3	8535.7	16092.3
69°	1114.2	1127.7	1161.5	1215.5	1269.6	1370.8	1782.8	4139.6	6442.3	11831.2
70°	1060.2	1073.7	1114.2	1168.3	1215.5	1310.1	1641.0	3673.6	5503.7	9629.7
72.5°	925.2	938.7	965.7	1019.7	1073.7	1141.2	1323.6	2626.9	3741.1	5915.6
75°	790.1	796.8	817.1	871.1	925.2	979.2	1114.2	1857.1	2485.1	3633.1
77.5°	614.5	621.3	648.3	709.1	742.8	817.1	945.4	1289.8	1627.5	2113.7
80°	445.7	466.0	499.7	553.7	574.0	614.5	729.3	925.2	1073.7	1296.6
82.5°	303.9	317.4	351.2	398.4	411.9	411.9	520.0	682.0	763.1	844.1
85°	175.6	182.3	175.6	202.6	236.4	243.1	337.6	411.9	472.7	547.0
87.5°	54.0	54.0	54.0	67.5	81.0	87.8	148.6	189.1	236.4	283.6
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°
9926.8	0°	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8
9974.1	2.5°	9947.1	10028.1	9933.6	9926.8	9920.1	9872.8	9906.6	9899.8	9974.1
10149.7	5°	10088.9	10088.9	10034.9	10075.4	10061.9	9906.6	10048.4	10048.4	10122.7
10372.5	7.5°	10291.5	10305.0	10278.0	10257.7	10230.7	10115.9	10203.7	10190.2	10251.0
10784.5	10°	10683.2	10669.7	10548.1	10548.1	10521.1	10399.5	10453.6	10494.1	10608.9
11182.9	12.5°	11108.6	11020.8	11034.3	10987.0	10899.3	10689.9	10771.0	10777.7	10892.5
11743.4	15°	11574.6	11480.0	11439.5	11399.0	11311.2	11115.4	11230.2	11162.6	11243.7
12256.6	17.5°	12202.6	12081.0	11939.2	11831.2	11702.9	11547.5	11601.6	11655.6	11709.6
12925.1	20°	12898.1	12702.3	12540.2	12364.6	12256.6	12060.8	12128.3	12135.0	12195.8
13627.5	22.5°	13451.9	13283.1	13100.7	12972.4	12749.6	12553.7	12479.4	12493.0	12601.0
14350.0	25°	14174.4	13870.6	13688.2	13478.9	13283.1	12945.4	12911.6	12925.1	13100.7
15160.4	27.5°	14802.5	14552.6	14248.7	13931.3	13647.7	13377.6	13337.1	13289.8	13499.1
15903.2	30°	15619.6	15248.2	14761.9	14458.1	13985.4	13607.2	13553.2	13600.4	13722.0
16990.4	32.5°	16497.5	16105.8	15592.6	15200.9	14626.9	14187.9	14127.2	14174.4	14397.3
18111.4	35°	17787.3	17361.8	16740.6	16139.5	15592.6	15113.1	15079.3	15005.1	15302.2
19651.1	37.5°	19333.7	18766.4	18178.9	17510.4	16929.6	16254.3	16058.5	16119.3	16362.4
21143.5	40°	21076.0	20535.7	19799.6	19036.6	18327.5	17611.7	17328.1	17287.5	17713.0
23088.3	42.5°	23088.3	22716.9	21643.2	20738.3	19806.4	18908.3	18570.6	18590.9	18982.5
25256.0	45°	25438.4	25161.5	24209.3	23074.8	21980.8	20839.6	20616.8	20630.3	21157.0
27214.4	47.5°	28213.8	28389.4	27491.3	26296.0	24945.4	23567.8	23027.6	22892.5	23480.0
29652.2	50°	31023.0	32130.5	31455.2	30314.0	28720.3	27092.8	26397.3	26154.2	26998.3
32069.8	52.5°	34311.7	36094.5	36303.9	35426.0	33636.4	31360.7	30590.9	30341.0	31414.7
34507.6	55°	37722.0	40443.4	41463.1	41584.7	39450.7	36952.1	35500.3	35209.9	36891.4
36641.5	57.5°	41166.0	45278.5	47365.2	48601.0	46811.4	43563.3	41496.9	41186.2	44164.3
38343.2	60°	44704.5	50282.5	53631.9	56751.8	55718.6	52112.5	48918.4	48931.9	53010.6
39072.6	62.5°	47290.9	54307.2	59642.0	64673.0	65604.9	63092.8	59047.8	58635.9	62951.0
36898.1	65°	48668.5	58109.1	64659.5	70629.1	73877.3	73755.7	70460.3	70095.6	73269.5
30604.4	67.5°	46608.9	58250.9	66462.5	72405.1	78361.2	81649.9	81231.2	81859.2	79995.4
24249.8	69°	42219.4	55745.6	64855.3	71500.2	77517.1	83074.8	84972.4	85431.6	80299.3
20069.8	70°	37397.8	52632.5	62174.4	68589.7	74113.6	81021.9	85087.2	85229.0	77611.6
11304.4	72.5°	23338.2	39450.7	48837.3	54969.0	58392.7	64936.4	71783.8	71669.0	61397.8
6320.8	75°	12256.6	22730.4	30381.5	33494.6	35412.5	38775.4	43408.0	42827.2	36904.9
3234.7	77.5°	5456.4	9656.7	12310.6	14073.1	14566.1	15545.3	16004.5	15626.3	14836.2
1742.3	80°	2647.2	3997.7	5199.8	5496.9	5145.7	4902.6	5017.4	4963.4	5429.4
1006.2	82.5°	1316.8	1836.8	2073.2	2485.1	3660.1	4497.5	4625.8	4571.7	4099.0
607.8	85°	702.3	844.1	972.4	1782.8	3275.2	4105.8	4227.3	4207.1	3788.4
330.9	87.5°	391.7	486.2	702.3	1424.9	1978.6	2093.4	2208.2	2140.7	2201.5
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°
9926.8	9926.8	0°	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8	9926.8
9953.8	10041.6	2.5°	9987.6	10041.6	10068.6	9967.4	10028.1	9974.1	9987.6
10109.2	10224.0	5°	10156.4	10284.7	10264.5	10264.5	10278.0	10197.0	10230.7
10251.0	10419.8	7.5°	10494.1	10541.4	10649.4	10608.9	10568.4	10487.3	10500.8
10635.9	10798.0	10°	10953.3	10953.3	11020.8	10953.3	10825.0	10771.0	10757.4
11027.6	11331.4	12.5°	11399.0	11331.4	11372.0	11176.1	11027.6	10919.5	10973.5
11378.7	11729.9	15°	11797.4	11783.9	11635.3	11385.5	11020.8	10825.0	10838.5
11986.5	12297.1	17.5°	12391.7	12270.1	11878.4	11230.2	10777.7	10588.6	10494.1
12553.7	12911.6	20°	12979.2	12641.5	11851.4	10980.3	10379.3	10068.6	10075.4
13033.2	13546.4	22.5°	13492.4	12783.3	11756.9	10662.9	10014.6	9595.9	9589.2
13708.5	14208.2	25°	13985.4	12702.3	11567.8	10372.5	9609.4	9204.3	9150.2
14302.7	14951.0	27.5°	14370.3	12628.0	11108.6	9906.6	9055.7	8724.8	8691.0
14843.0	15768.1	30°	14613.4	12465.9	10696.7	9359.6	8542.5	8218.3	8204.8
15835.7	16463.7	32.5°	14890.3	12216.1	10156.4	8873.4	8090.0	7738.9	7718.6
17003.9	17490.1	35°	15146.9	11837.9	9717.5	8414.2	7617.3	7205.4	7144.6
18428.8	18651.6	37.5°	15200.9	11419.2	9170.5	7867.2	7029.8	6631.4	6624.6
20245.3	19657.8	40°	15207.6	10912.8	8589.8	7320.2	6455.8	6050.6	6023.6
22210.4	20508.7	42.5°	14937.5	10332.0	8009.0	6671.9	5861.6	5382.1	5348.3
24553.7	21548.7	45°	14316.3	9636.5	7266.2	5956.1	5206.5	4760.8	4706.8
27322.4	22487.3	47.5°	13485.6	8765.3	6516.6	5226.8	4463.7	4058.5	4024.8
30341.0	23095.1	50°	12364.6	7786.2	5611.7	4436.7	3714.1	3383.2	3302.2
33866.0	23176.1	52.5°	10973.5	6665.2	4666.3	3612.8	3025.3	2734.9	2687.7
37715.2	22500.8	55°	9312.3	5456.4	3727.6	2883.5	2350.0	2127.2	2086.7
41274.0	20792.3	57.5°	7462.0	4200.3	2870.0	2228.5	1884.1	1728.8	1681.5
45231.3	17611.7	60°	5577.9	3167.1	2201.5	1769.3	1539.7	1431.6	1411.4
48763.0	13681.5	62.5°	4011.3	2383.8	1728.8	1478.9	1350.6	1296.6	1283.1
50755.2	9190.8	65°	2951.0	1836.8	1438.4	1337.1	1242.5	1195.3	1175.0
50417.5	6016.9	67.5°	2194.7	1472.1	1276.3	1215.5	1148.0	1100.7	1087.2
47250.4	4794.6	69°	1850.3	1330.3	1195.3	1134.5	1073.7	1033.2	1012.9
43495.7	4078.8	70°	1674.7	1256.0	1154.8	1094.0	1026.4	992.7	972.4
29179.5	2741.7	72.5°	1316.8	1087.2	1026.4	958.9	911.6	871.1	864.4
15329.2	1938.1	75°	1087.2	931.9	884.6	830.6	783.3	742.8	742.8
6678.7	1391.1	77.5°	911.6	769.8	729.3	675.3	628.0	587.5	580.8
3207.7	1006.2	80°	709.1	587.5	560.5	540.2	486.2	425.4	418.7
1695.0	722.6	82.5°	506.5	398.4	391.7	378.2	330.9	297.1	283.6
918.4	432.2	85°	317.4	229.6	209.3	182.3	162.1	162.1	162.1
445.7	189.1	87.5°	121.6	67.5	67.5	54.0	40.5	40.5	40.5
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)