

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: P628142

Luminaire Tested: **EPH-VN-08-D-750-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628142  
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-750-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57879.8 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

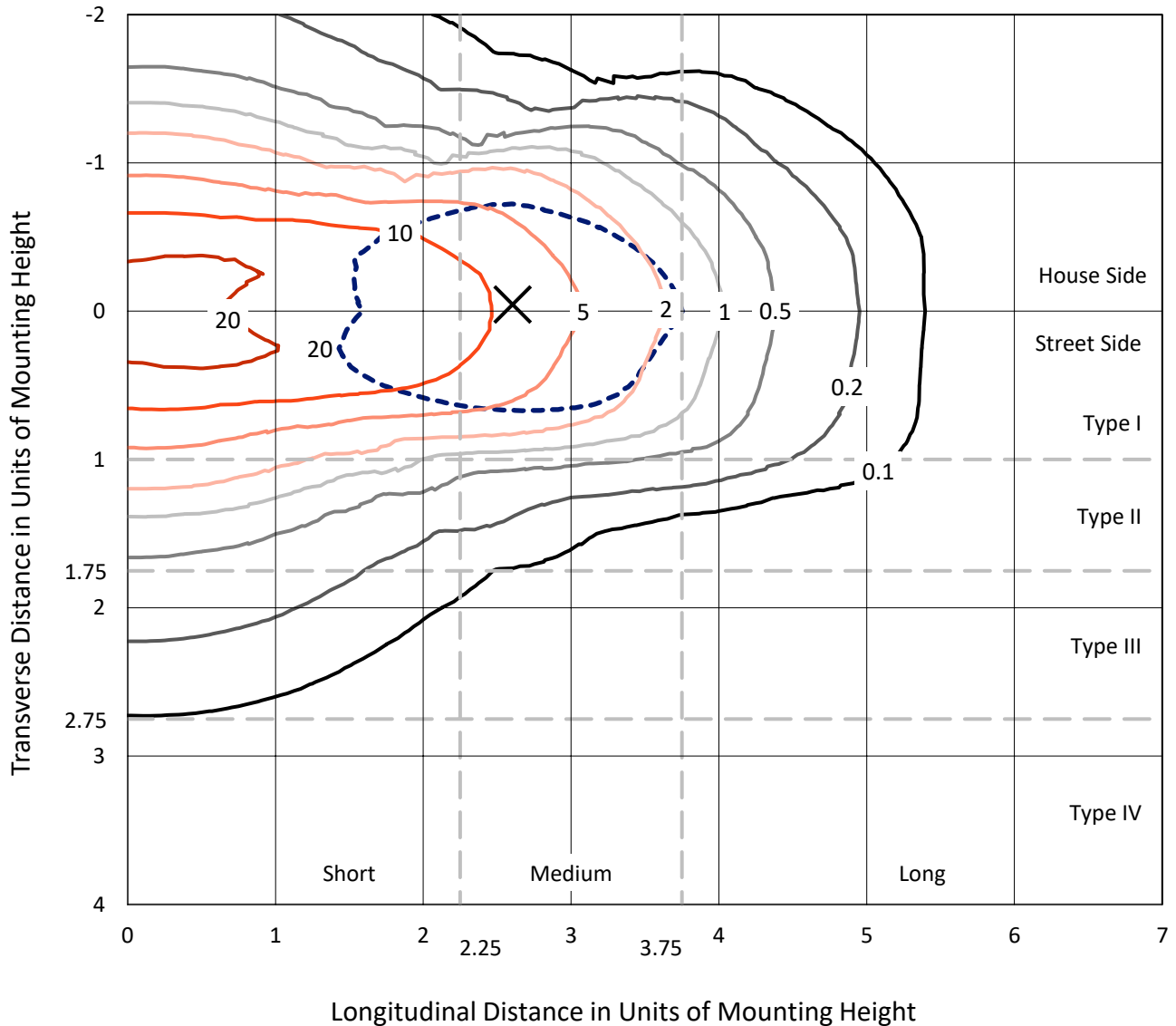
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

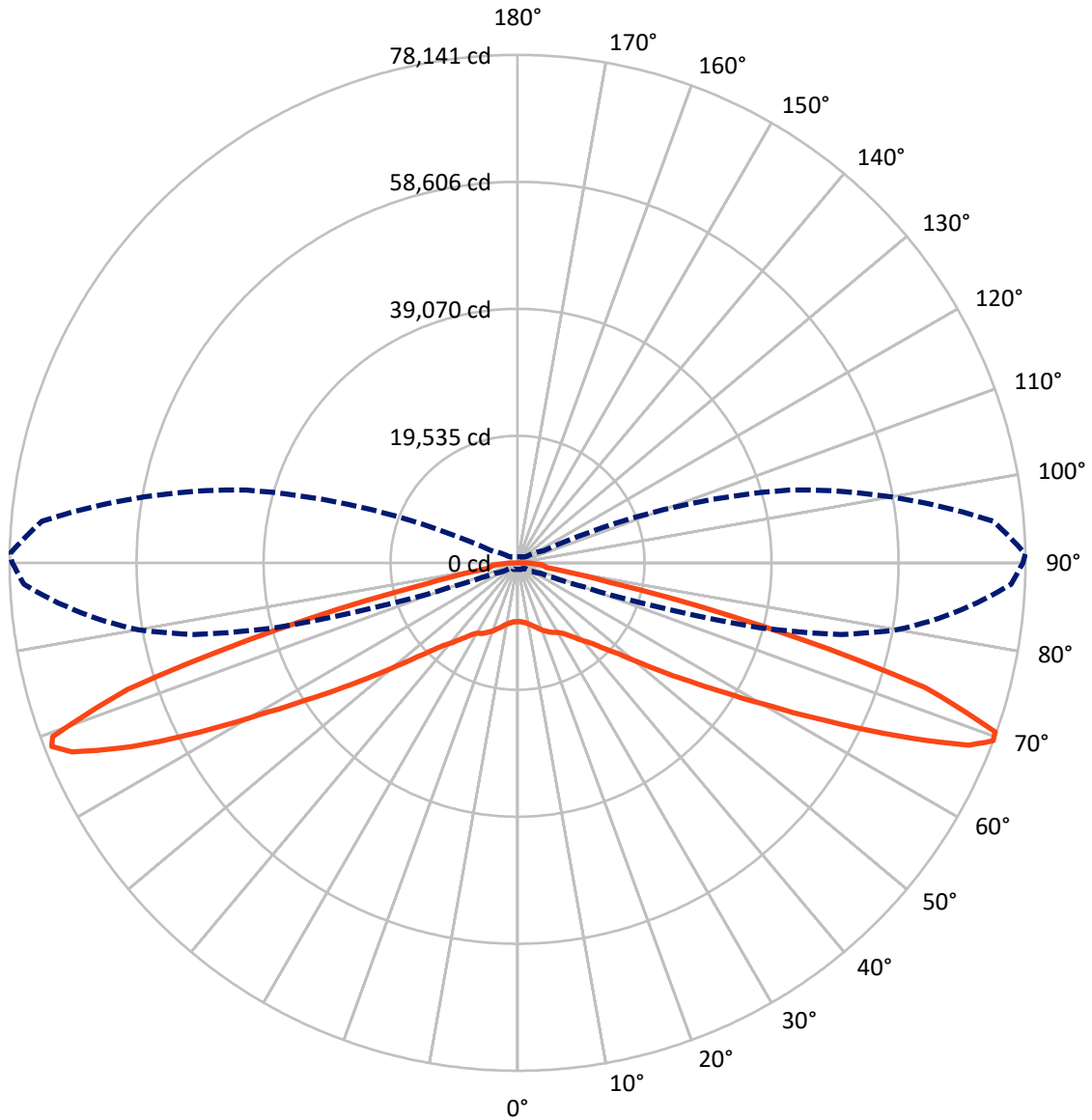
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.7 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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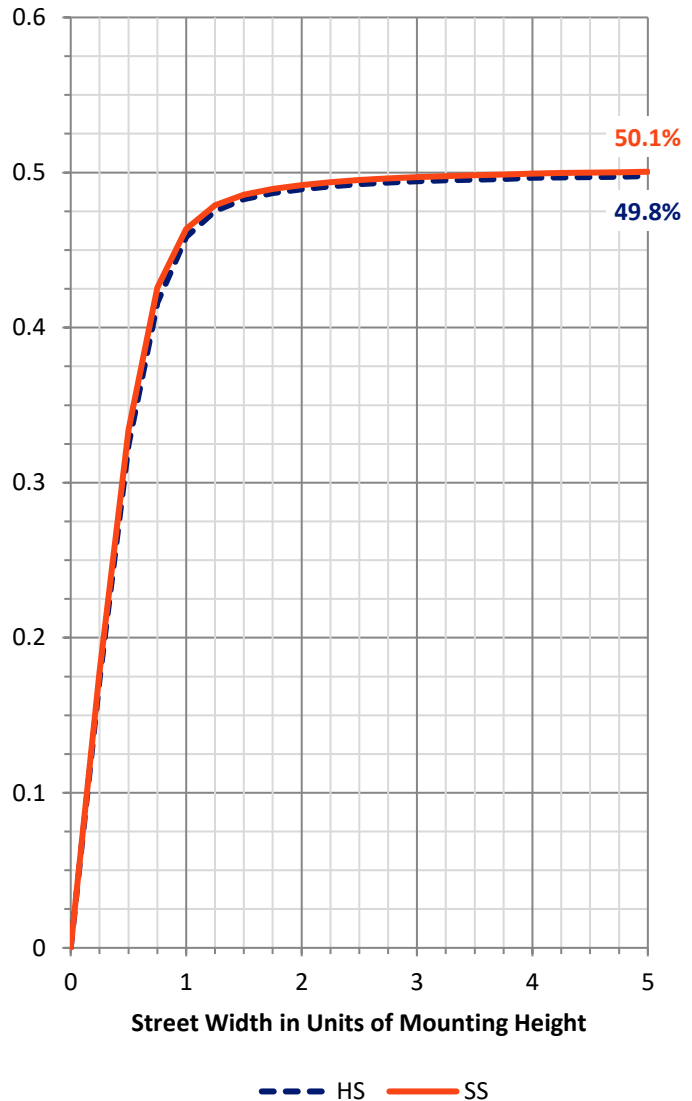
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29017.8	0.0	29017.8
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	28862.0	0.0	28862.0
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	57879.8	0.0	57879.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	911.8	1.6
10°-20°	2985.5	5.2
20°-30°	5119.8	8.8
30°-40°	7072.7	12.2
40°-50°	9093.5	15.7
50°-60°	11314.2	19.5
60°-70°	13876.6	24.0
70°-80°	6845.2	11.8
80°-90°	660.3	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°	57879.8	100.0
0°-180°	57879.8	100.0

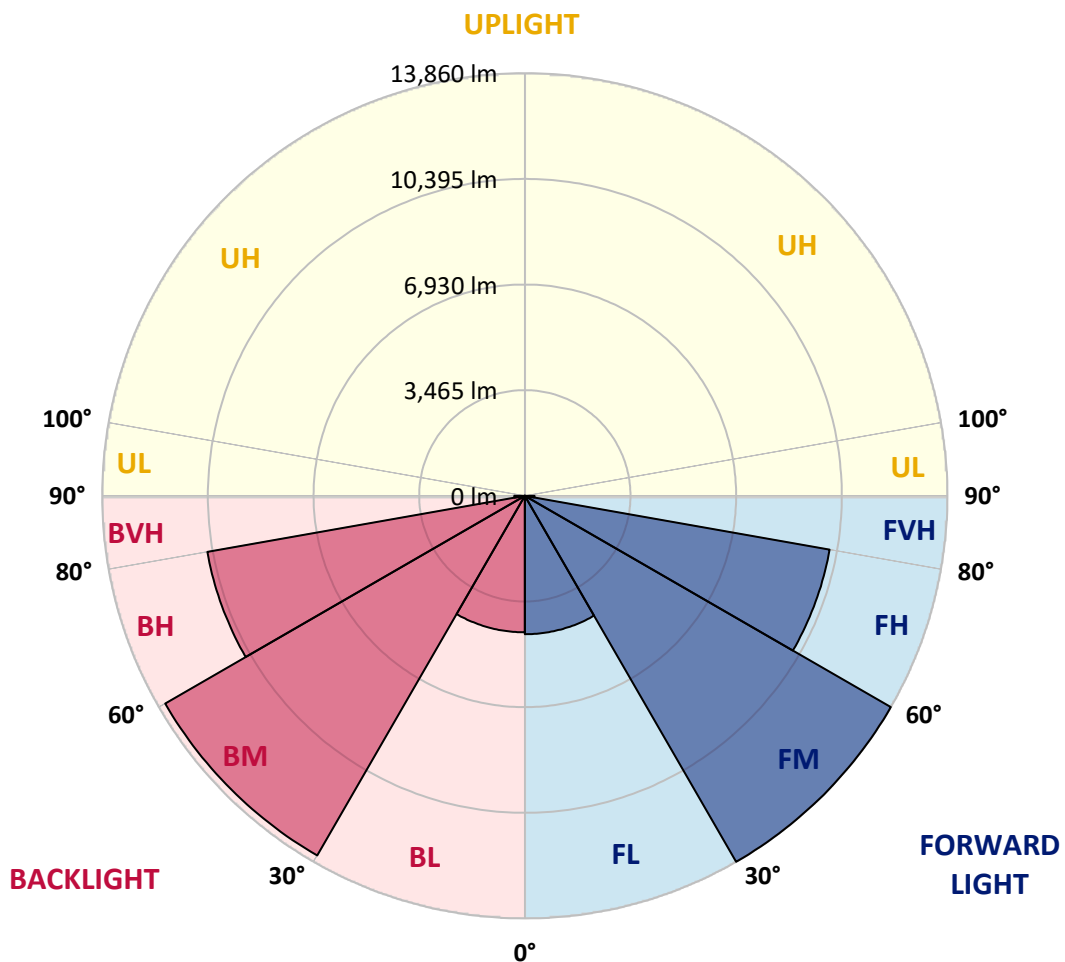


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4538.8	7.8			
FM (30°-60°)	13860.3	23.9			
FH (60°-80°)	10149.7	17.5			G4/12000
FVH (80°-90°)	313.1	0.5			G3/500
BL (0°-30°)	4478.4	7.7	B4/5000		
BM (30°-60°)	13620.1	23.5	B5		
BH (60°-80°)	10572.1	18.3	B5		G5
BVH (80°-90°)	347.2	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°	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7
2.5°	9160.0	9240.3	9172.3	9203.2	9240.3	9221.7	9209.4	9122.9	9153.8	9116.7
5°	9481.2	9536.7	9493.5	9487.3	9450.3	9444.1	9407.0	9271.2	9332.9	9246.4
7.5°	9759.1	9814.7	9759.1	9777.6	9790.0	9752.9	9722.0	9573.8	9586.2	9530.6
10°	9962.9	10049.4	9987.6	10111.2	10111.2	10160.6	10117.4	9901.2	9907.3	9839.4
12.5°	10098.8	10203.8	10179.1	10382.9	10488.0	10512.7	10562.1	10376.8	10364.4	10234.7
15°	10000.0	10018.5	10148.2	10463.2	10827.7	11000.6	11087.1	10870.9	10883.3	10735.0
17.5°	9685.0	9746.8	9870.3	10420.0	10883.3	11395.9	11568.9	11445.3	11420.6	11253.9
20°	9339.1	9351.4	9555.3	10185.3	10901.8	11636.8	12149.5	12050.6	12044.5	11939.5
22.5°	8906.7	8912.9	9197.0	9895.0	10846.2	11748.0	12668.3	12798.0	12711.5	12612.7
25°	8369.4	8437.3	8770.8	9555.3	10654.7	11865.3	12971.0	13397.2	13366.3	13273.6
27.5°	7862.9	7912.3	8276.7	9073.5	10247.1	11692.4	13409.5	14156.9	14076.6	13928.3
30°	7405.8	7486.1	7862.9	8579.4	9740.6	11476.2	13699.8	14780.7	14873.4	14706.6
32.5°	6911.7	7010.5	7405.8	8147.0	9271.2	11272.4	13946.9	15515.7	15744.3	15552.8
35°	6417.5	6491.7	6887.0	7683.8	8931.4	10821.5	13996.3	16466.9	16751.1	16646.1
37.5°	5985.2	6053.1	6442.2	7202.0	8474.4	10488.0	13885.1	17257.6	17770.2	18054.3
40°	5503.4	5589.9	5972.8	6738.7	7869.1	9993.8	13749.2	18140.8	18875.8	19252.6
42.5°	4966.0	5083.4	5454.0	6244.6	7399.6	9382.3	13341.6	18733.8	19876.5	20543.5
45°	4397.8	4484.2	4885.7	5614.6	6843.7	8672.0	12767.1	19456.4	20951.2	22186.5
47.5°	3712.2	3767.8	4175.4	4941.3	6065.5	7937.0	12038.3	20012.3	22155.6	23706.0
50°	2964.8	3020.4	3347.7	4119.8	5213.1	7022.9	10920.3	20247.1	23001.8	25176.0
52.5°	2316.2	2359.5	2618.9	3199.5	4237.2	5979.0	9610.9	20191.5	23539.2	26701.7
55°	1803.6	1840.6	2025.9	2464.5	3248.9	4743.7	8239.7	19172.3	23706.0	27770.2
57.5°	1550.3	1568.9	1655.3	1908.6	2489.2	3594.8	6497.8	17381.1	22884.5	28492.9
60°	1365.0	1371.2	1439.2	1612.1	1927.1	2674.5	4749.8	14521.3	20840.0	28035.8
62.5°	1272.4	1278.6	1315.6	1433.0	1593.6	2019.8	3366.3	11155.0	17214.3	26151.9
65°	1192.1	1198.3	1229.2	1303.3	1371.2	1618.3	2476.8	7356.4	12402.7	21309.4
67.5°	1087.1	1099.4	1130.3	1192.1	1247.7	1346.5	1883.9	4743.7	7807.3	14719.0
69°	1019.1	1031.5	1062.4	1111.8	1161.2	1253.9	1630.6	3786.3	5892.5	10821.5
70°	969.7	982.1	1019.1	1068.6	1111.8	1198.3	1500.9	3360.1	5034.0	8807.9
72.5°	846.2	858.6	883.3	932.7	982.1	1043.9	1210.6	2402.7	3421.9	5410.7
75°	722.7	728.8	747.4	796.8	846.2	895.6	1019.1	1698.6	2273.0	3323.0
77.5°	562.1	568.3	593.0	648.5	679.4	747.4	864.7	1179.7	1488.6	1933.3
80°	407.7	426.2	457.1	506.5	525.0	562.1	667.1	846.2	982.1	1185.9
82.5°	277.9	290.3	321.2	364.4	376.8	376.8	475.6	623.8	698.0	772.1
85°	160.6	166.8	160.6	185.3	216.2	222.4	308.8	376.8	432.4	500.3
87.5°	49.4	49.4	49.4	61.8	74.1	80.3	135.9	172.9	216.2	259.4
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°
9079.7	0°	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7
9122.9	2.5°	9098.2	9172.3	9085.9	9079.7	9073.5	9030.3	9061.1	9055.0	9122.9
9283.5	5°	9227.9	9227.9	9178.5	9215.6	9203.2	9061.1	9190.9	9190.9	9258.8
9487.3	7.5°	9413.2	9425.6	9400.9	9382.3	9357.6	9252.6	9332.9	9320.6	9376.2
9864.1	10°	9771.5	9759.1	9647.9	9647.9	9623.2	9512.0	9561.5	9598.5	9703.5
10228.5	12.5°	10160.6	10080.3	10092.6	10049.4	9969.1	9777.6	9851.8	9857.9	9962.9
10741.2	15°	10586.8	10500.3	10463.2	10426.2	10345.9	10166.8	10271.8	10210.0	10284.1
11210.6	17.5°	11161.2	11050.0	10920.3	10821.5	10704.1	10562.1	10611.5	10660.9	10710.3
11822.1	20°	11797.4	11618.3	11470.0	11309.4	11210.6	11031.5	11093.3	11099.4	11155.0
12464.5	22.5°	12303.9	12149.5	11982.7	11865.3	11661.5	11482.4	11414.4	11426.8	11525.6
13125.4	25°	12964.8	12686.8	12520.1	12328.6	12149.5	11840.6	11809.8	11822.1	11982.7
13866.6	27.5°	13539.2	13310.7	13032.7	12742.4	12483.0	12235.9	12198.9	12155.6	12347.1
14546.0	30°	14286.6	13946.9	13502.2	13224.2	12791.8	12446.0	12396.5	12439.8	12551.0
15540.5	32.5°	15089.6	14731.3	14261.9	13903.6	13378.6	12977.1	12921.6	12964.8	13168.6
16565.8	35°	16269.3	15880.2	15311.9	14762.2	14261.9	13823.3	13792.5	13724.5	13996.3
17974.1	37.5°	17683.7	17164.9	16627.5	16016.1	15484.9	14867.2	14688.1	14743.7	14966.0
19339.1	40°	19277.3	18783.2	18109.9	17412.0	16763.4	16108.7	15849.3	15812.2	16201.4
21118.0	42.5°	21118.0	20778.3	19796.2	18968.5	18116.1	17294.6	16985.8	17004.3	17362.6
23100.7	45°	23267.4	23014.2	22143.3	21105.6	20105.0	19061.1	18857.3	18869.7	19351.4
24891.9	47.5°	25806.0	25966.6	25145.1	24051.9	22816.5	21556.5	21062.4	20938.8	21476.2
27121.7	50°	28375.5	29388.5	28770.8	27727.0	26269.3	24780.7	24144.5	23922.2	24694.2
29332.9	52.5°	31383.6	33014.2	33205.7	32402.7	30765.9	28684.4	27980.2	27751.7	28733.8
31562.7	55°	34502.8	36992.0	37924.6	38035.8	36084.0	33798.6	32470.6	32205.1	33743.0
33514.5	57.5°	37652.9	41414.4	43323.0	44453.4	42816.5	39845.6	37955.5	37671.4	40395.3
35071.0	60°	40889.4	45991.3	49055.0	51908.6	50963.5	47665.2	44743.7	44756.0	48486.7
35738.1	62.5°	43255.1	49672.6	54552.2	59153.8	60006.2	57708.4	54008.6	53631.9	57578.7
33749.2	65°	44515.1	53150.1	59141.4	64601.6	67572.6	67461.4	64447.2	64113.6	67016.7
27992.6	67.5°	42631.2	53279.8	60790.6	66226.0	71673.8	74681.9	74298.9	74873.4	73168.6
22180.4	69°	38616.4	50988.2	59320.5	65398.4	70901.8	75985.2	77720.8	78140.8	73446.5
18357.0	70°	34206.3	48140.8	56868.4	62736.2	67788.7	74107.4	77825.8	77955.5	70988.2
10339.7	72.5°	21346.5	36084.0	44669.5	50277.9	53409.5	59394.7	65657.8	65552.8	56158.1
5781.3	75°	11210.6	20790.6	27788.7	30636.2	32390.4	35466.3	39703.5	39172.3	33755.4
2958.6	77.5°	4990.7	8832.6	11260.0	12872.1	13323.0	14218.6	14638.7	14292.8	13570.1
1593.6	80°	2421.2	3656.6	4756.0	5027.8	4706.6	4484.2	4589.3	4539.8	4966.0
920.3	82.5°	1204.4	1680.0	1896.2	2273.0	3347.7	4113.6	4231.0	4181.6	3749.2
555.9	85°	642.4	772.1	889.4	1630.6	2995.7	3755.4	3866.6	3848.1	3465.1
302.7	87.5°	358.2	444.7	642.4	1303.3	1809.8	1914.8	2019.8	1958.0	2013.6
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°
9079.7	9079.7	0°	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7	9079.7
9104.4	9184.7	2.5°	9135.3	9184.7	9209.4	9116.7	9172.3	9122.9	9135.3
9246.4	9351.4	5°	9289.7	9407.0	9388.5	9388.5	9400.9	9326.7	9357.6
9376.2	9530.6	7.5°	9598.5	9641.8	9740.6	9703.5	9666.5	9592.3	9604.7
9728.2	9876.5	10°	10018.5	10018.5	10080.3	10018.5	9901.2	9851.8	9839.4
10086.5	10364.4	12.5°	10426.2	10364.4	10401.5	10222.4	10086.5	9987.6	10037.1
10407.7	10728.8	15°	10790.6	10778.3	10642.4	10413.8	10080.3	9901.2	9913.5
10963.6	11247.7	17.5°	11334.2	11223.0	10864.7	10271.8	9857.9	9685.0	9598.5
11482.4	11809.8	20°	11871.5	11562.7	10840.0	10043.2	9493.5	9209.4	9215.6
11920.9	12390.4	22.5°	12340.9	11692.4	10753.5	9752.9	9160.0	8777.0	8770.8
12538.6	12995.7	25°	12791.8	11618.3	10580.6	9487.3	8789.4	8418.8	8369.4
13082.1	13675.1	27.5°	13143.9	11550.3	10160.6	9061.1	8282.9	7980.2	7949.3
13576.3	14422.5	30°	13366.3	11402.1	9783.8	8560.8	7813.5	7517.0	7504.6
14484.2	15058.7	32.5°	13619.5	11173.6	9289.7	8116.1	7399.6	7078.4	7059.9
15552.8	15997.5	35°	13854.2	10827.7	8888.2	7696.1	6967.3	6590.5	6534.9
16856.1	17059.9	37.5°	13903.6	10444.7	8387.9	7195.8	6429.9	6065.5	6059.3
18517.6	17980.2	40°	13909.8	9981.5	7856.7	6695.5	5904.9	5534.3	5509.6
20315.0	18758.5	42.5°	13662.8	9450.3	7325.5	6102.5	5361.3	4922.8	4891.9
22458.3	19709.7	45°	13094.5	8814.1	6646.1	5447.8	4762.2	4354.5	4305.1
24990.7	20568.2	47.5°	12334.8	8017.3	5960.5	4780.7	4082.8	3712.2	3681.3
27751.7	21124.1	50°	11309.4	7121.7	5132.8	4058.1	3397.2	3094.5	3020.4
30975.9	21198.3	52.5°	10037.1	6096.4	4268.1	3304.5	2767.1	2501.5	2458.3
34496.6	20580.6	55°	8517.6	4990.7	3409.5	2637.4	2149.5	1945.6	1908.6
37751.7	19017.9	57.5°	6825.2	3841.9	2625.1	2038.3	1723.3	1581.2	1538.0
41371.2	16108.7	60°	5101.9	2896.8	2013.6	1618.3	1408.3	1309.4	1290.9
44601.6	12513.9	62.5°	3668.9	2180.4	1581.2	1352.7	1235.3	1185.9	1173.6
46423.7	8406.4	65°	2699.2	1680.0	1315.6	1223.0	1136.5	1093.3	1074.7
46114.9	5503.4	67.5°	2007.4	1346.5	1167.4	1111.8	1050.0	1006.8	994.4
43218.0	4385.4	69°	1692.4	1216.8	1093.3	1037.7	982.1	945.0	926.5
39783.8	3730.7	70°	1531.8	1148.9	1056.2	1000.6	938.9	908.0	889.4
26689.3	2507.7	72.5°	1204.4	994.4	938.9	877.1	833.8	796.8	790.6
14021.0	1772.7	75°	994.4	852.4	809.1	759.7	716.5	679.4	679.4
6108.7	1272.4	77.5°	833.8	704.1	667.1	617.7	574.4	537.4	531.2
2933.9	920.3	80°	648.5	537.4	512.7	494.1	444.7	389.1	383.0
1550.3	660.9	82.5°	463.2	364.4	358.2	345.9	302.7	271.8	259.4
840.0	395.3	85°	290.3	210.0	191.5	166.8	148.2	148.2	148.2
407.7	172.9	87.5°	111.2	61.8	61.8	49.4	37.1	37.1	37.1
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)