

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: P628122

Luminaire Tested: **EPH-VN-06-E-730-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628122  
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-730-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48905.4 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

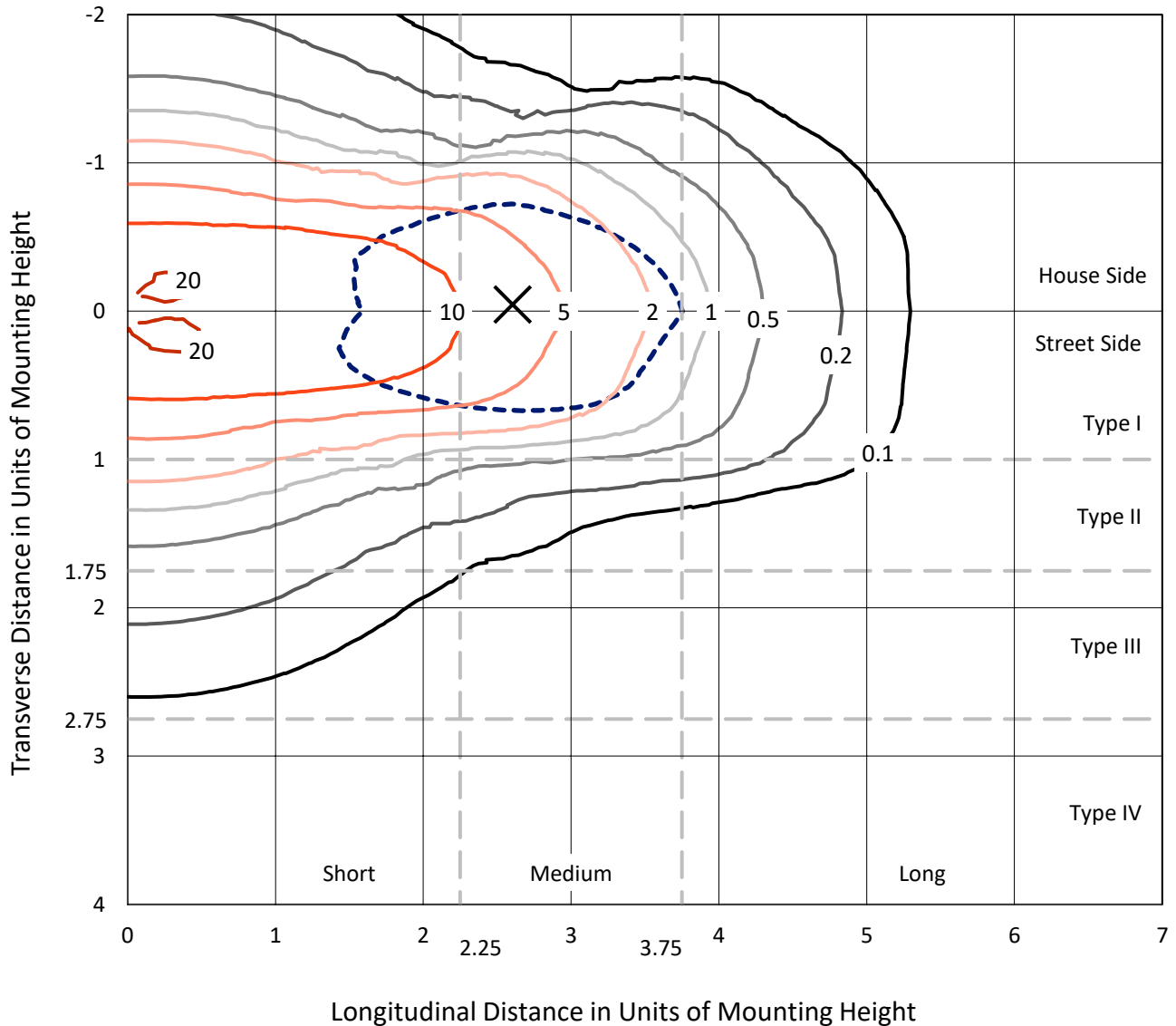
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

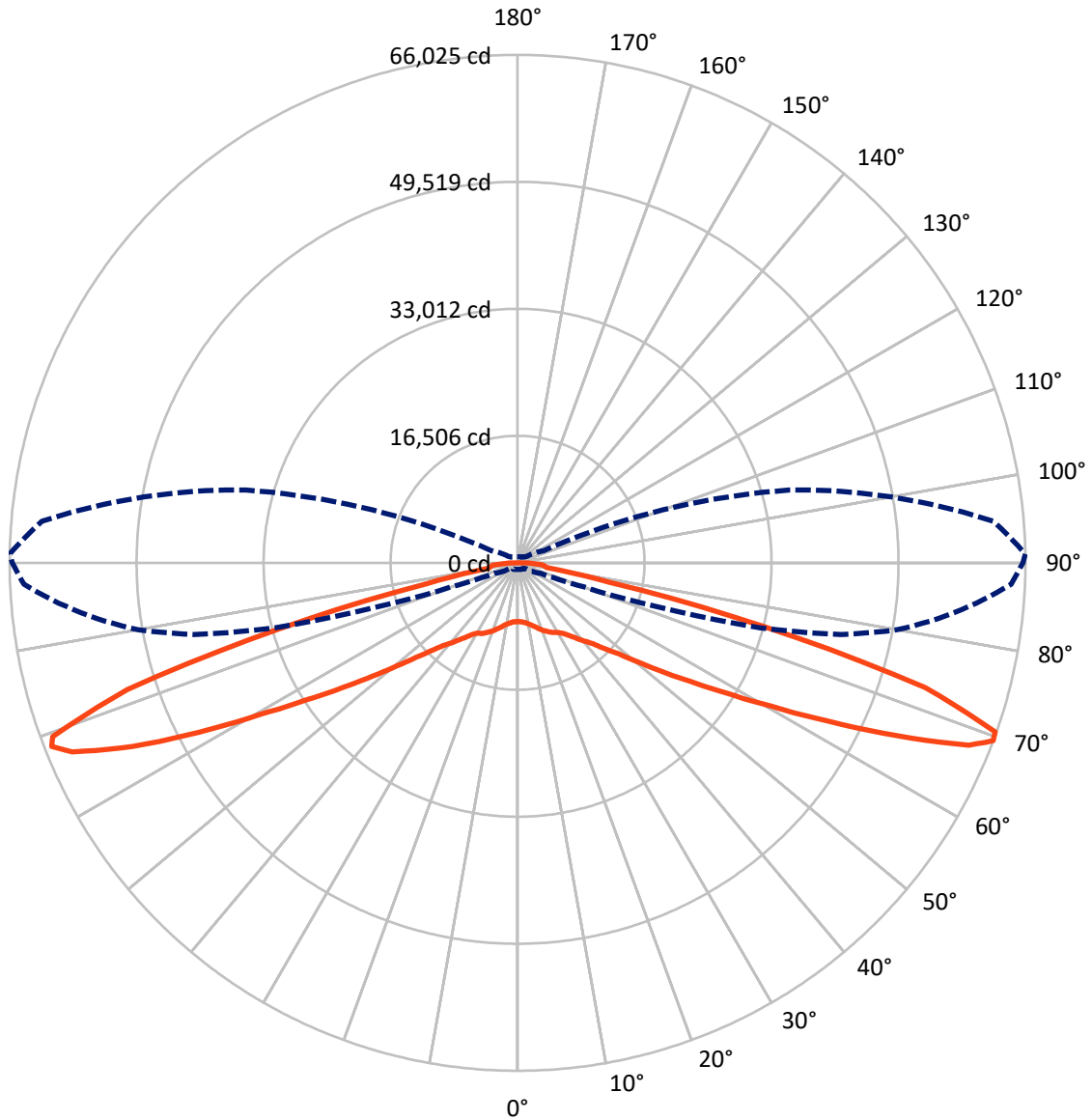
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.9 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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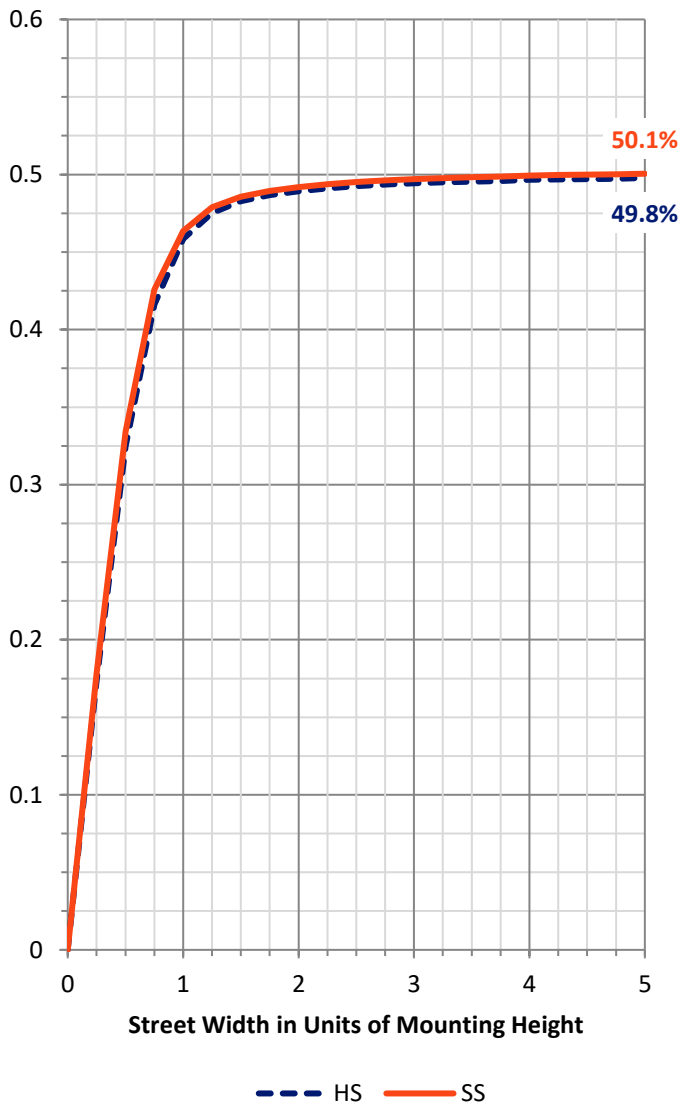
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24518.5	0.0	24518.5
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	24386.9	0.0	24386.9
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	48905.4	0.0	48905.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.4	1.6
10°-20°	2522.6	5.2
20°-30°	4326.0	8.8
30°-40°	5976.1	12.2
40°-50°	7683.6	15.7
50°-60°	9559.9	19.5
60°-70°	11725.0	24.0
70°-80°	5783.9	11.8
80°-90°	558.0	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°	48905.4	100.0
0°-180°	48905.4	100.0

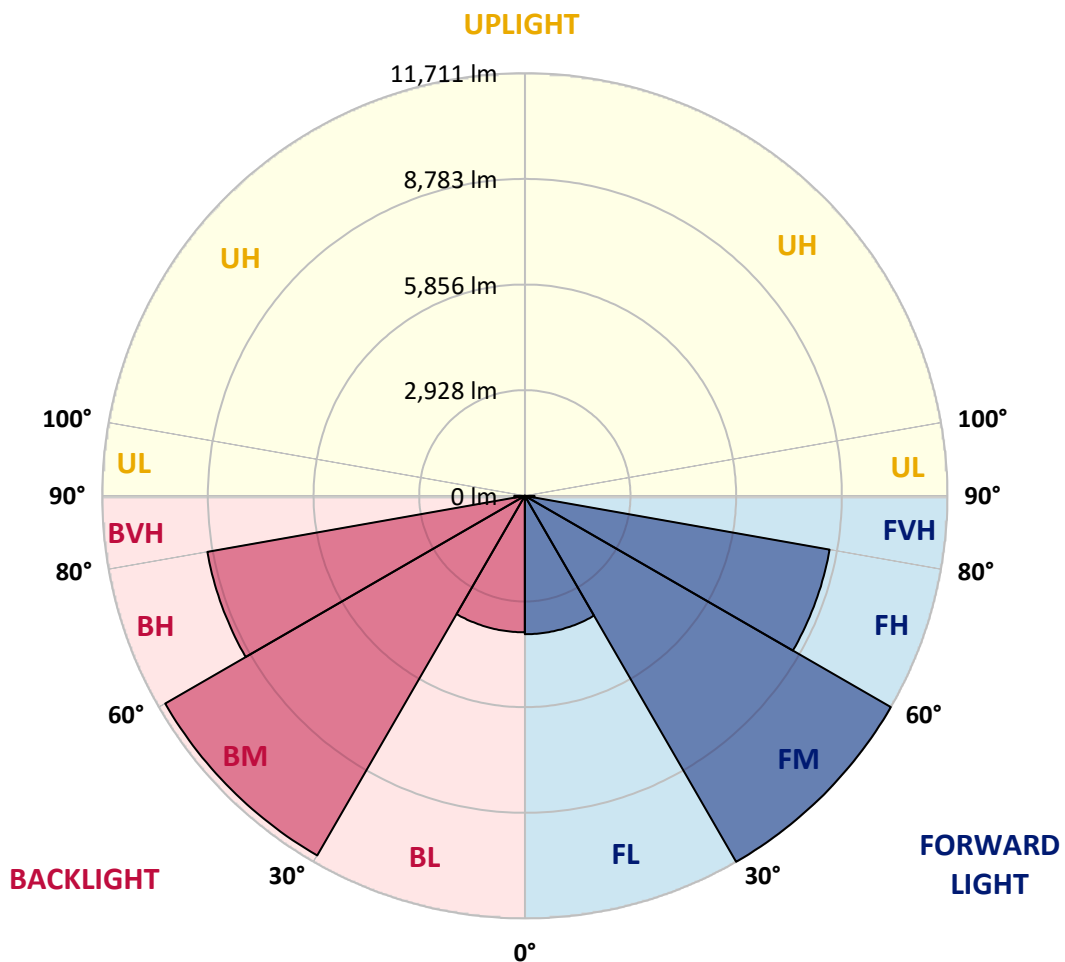


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3835.0	7.8			
FM (30°-60°)	11711.2	23.9			
FH (60°-80°)	8576.0	17.5			G4/12000
FVH (80°-90°)	264.6	0.5			G3/500
BL (0°-30°)	3784.0	7.7	B4/5000		
BM (30°-60°)	11508.3	23.5	B5		
BH (60°-80°)	8932.9	18.3	B5		G5
BVH (80°-90°)	293.4	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°	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9
2.5°	7739.7	7807.5	7750.1	7776.2	7807.5	7791.9	7781.5	7708.4	7734.5	7703.2
5°	8011.1	8058.1	8021.5	8016.3	7985.0	7979.8	7948.5	7833.6	7885.8	7812.8
7.5°	8245.9	8292.9	8245.9	8261.6	8272.0	8240.7	8214.6	8089.4	8099.8	8052.8
10°	8418.2	8491.2	8439.0	8543.4	8543.4	8585.2	8548.6	8366.0	8371.2	8313.8
12.5°	8533.0	8621.7	8600.8	8773.1	8861.8	8882.7	8924.4	8767.8	8757.4	8647.8
15°	8449.5	8465.1	8574.7	8840.9	9148.8	9294.9	9368.0	9185.4	9195.8	9070.5
17.5°	8183.3	8235.5	8339.9	8804.4	9195.8	9629.0	9775.1	9670.7	9649.8	9508.9
20°	7891.1	7901.5	8073.7	8606.0	9211.4	9832.5	10265.7	10182.2	10177.0	10088.2
22.5°	7525.7	7530.9	7771.0	8360.8	9164.5	9926.4	10704.1	10813.7	10740.6	10657.1
25°	7071.7	7129.1	7410.9	8073.7	9002.7	10025.6	10959.8	11319.9	11293.8	11215.5
27.5°	6643.7	6685.5	6993.4	7666.6	8658.2	9879.5	11330.3	11961.8	11894.0	11768.7
30°	6257.5	6325.4	6643.7	7249.1	8230.3	9696.8	11575.6	12488.9	12567.2	12426.3
32.5°	5840.0	5923.5	6257.5	6883.8	7833.6	9524.6	11784.4	13110.0	13303.1	13141.3
35°	5422.5	5485.1	5819.1	6492.4	7546.6	9143.6	11826.1	13913.7	14153.8	14065.1
37.5°	5057.2	5114.6	5443.4	6085.3	7160.4	8861.8	11732.2	14581.7	15014.9	15255.0
40°	4650.1	4723.1	5046.7	5693.9	6648.9	8444.3	11617.4	15328.1	15949.1	16267.5
42.5°	4196.0	4295.2	4608.3	5276.4	6252.3	7927.6	11272.9	15829.1	16794.6	17358.2
45°	3715.9	3789.0	4128.2	4744.0	5782.6	7327.4	10787.6	16439.7	17702.7	18746.5
47.5°	3136.6	3183.6	3528.0	4175.2	5125.0	6706.3	10171.7	16909.4	18720.4	20030.3
50°	2505.1	2552.1	2828.7	3481.0	4404.8	5933.9	9227.1	17107.7	19435.4	21272.4
52.5°	1957.1	1993.6	2212.8	2703.4	3580.2	5051.9	8120.7	17060.7	19889.4	22561.5
55°	1523.9	1555.2	1711.8	2082.4	2745.2	4008.2	6962.1	16199.6	20030.3	23464.4
57.5°	1310.0	1325.6	1398.7	1612.7	2103.2	3037.4	5490.3	14686.1	19336.2	24075.0
60°	1153.4	1158.6	1216.0	1362.1	1628.3	2259.8	4013.4	12269.7	17608.7	23688.8
62.5°	1075.1	1080.3	1111.6	1210.8	1346.5	1706.6	2844.3	9425.4	14545.2	22097.0
65°	1007.3	1012.5	1038.6	1101.2	1158.6	1367.4	2092.8	6215.8	10479.7	18005.4
67.5°	918.5	929.0	955.1	1007.3	1054.2	1137.7	1591.8	4008.2	6596.8	12436.8
69°	861.1	871.6	897.7	939.4	981.2	1059.4	1377.8	3199.2	4978.9	9143.6
70°	819.4	829.8	861.1	902.9	939.4	1012.5	1268.2	2839.1	4253.4	7442.2
72.5°	715.0	725.4	746.3	788.1	829.8	882.0	1022.9	2030.2	2891.3	4571.8
75°	610.6	615.8	631.5	673.2	715.0	756.7	861.1	1435.2	1920.6	2807.8
77.5°	474.9	480.1	501.0	548.0	574.1	631.5	730.7	996.8	1257.8	1633.5
80°	344.5	360.1	386.2	428.0	443.6	474.9	563.6	715.0	829.8	1002.0
82.5°	234.9	245.3	271.4	307.9	318.4	318.4	401.9	527.1	589.7	652.4
85°	135.7	140.9	135.7	156.6	182.7	187.9	260.9	318.4	365.3	422.7
87.5°	41.8	41.8	41.8	52.2	62.6	67.8	114.8	146.1	182.7	219.2
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°
7671.9	0°	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9
7708.4	2.5°	7687.5	7750.1	7677.1	7671.9	7666.6	7630.1	7656.2	7651.0	7708.4
7844.1	5°	7797.1	7797.1	7755.4	7786.7	7776.2	7656.2	7765.8	7765.8	7823.2
8016.3	7.5°	7953.7	7964.1	7943.2	7927.6	7906.7	7818.0	7885.8	7875.4	7922.4
8334.7	10°	8256.4	8245.9	8152.0	8152.0	8131.1	8037.2	8078.9	8110.2	8199.0
8642.6	12.5°	8585.2	8517.3	8527.8	8491.2	8423.4	8261.6	8324.2	8329.4	8418.2
9075.8	15°	8945.3	8872.2	8840.9	8809.6	8741.7	8590.4	8679.1	8626.9	8689.6
9472.4	17.5°	9430.6	9336.7	9227.1	9143.6	9044.4	8924.4	8966.2	9007.9	9049.7
9989.1	20°	9968.2	9816.8	9691.6	9555.9	9472.4	9321.0	9373.2	9378.5	9425.4
10531.8	22.5°	10396.1	10265.7	10124.8	10025.6	9853.4	9702.0	9644.6	9655.1	9738.6
11090.3	25°	10954.6	10719.7	10578.8	10417.0	10265.7	10004.7	9978.6	9989.1	10124.8
11716.5	27.5°	11439.9	11246.8	11012.0	10766.7	10547.5	10338.7	10307.4	10270.9	10432.7
12290.6	30°	12071.4	11784.4	11408.6	11173.8	10808.4	10516.2	10474.4	10511.0	10604.9
13130.9	32.5°	12749.9	12447.2	12050.6	11747.9	11304.2	10965.0	10918.0	10954.6	11126.8
13997.2	35°	13746.7	13417.9	12937.8	12473.3	12050.6	11680.0	11653.9	11596.5	11826.1
15187.1	37.5°	14941.9	14503.5	14049.4	13532.7	13083.9	12562.0	12410.7	12457.6	12645.5
16340.5	40°	16288.3	15870.8	15302.0	14712.2	14164.2	13611.0	13391.8	13360.5	13689.3
17843.6	42.5°	17843.6	17556.5	16726.7	16027.4	15307.2	14613.1	14352.1	14367.8	14670.5
19518.9	45°	19659.8	19445.8	18709.9	17833.1	16987.7	16105.7	15933.5	15943.9	16351.0
21032.4	47.5°	21804.8	21940.5	21246.3	20322.6	19278.8	18214.1	17796.6	17692.2	18146.3
22916.4	50°	23975.9	24831.8	24309.9	23427.9	22196.2	20938.4	20400.9	20213.0	20865.4
24784.8	52.5°	26517.5	27895.3	28057.1	27378.6	25995.6	24236.8	23641.8	23448.7	24278.6
26668.8	55°	29153.1	31256.3	32044.3	32138.3	30489.1	28558.1	27436.0	27211.6	28511.1
28318.0	57.5°	31814.7	34993.1	36605.7	37560.8	36177.8	33667.4	32070.4	31830.4	34131.9
29633.2	60°	34549.4	38860.3	41448.9	43860.0	43061.6	40274.6	37806.1	37816.5	40968.8
30196.8	62.5°	36548.3	41970.8	46093.8	49981.9	50702.1	48760.6	45634.5	45316.1	48651.0
28516.3	65°	37613.0	44909.1	49971.4	54585.0	57095.3	57001.4	54454.5	54172.7	56625.6
23652.3	67.5°	36021.2	45018.7	51364.9	55957.6	60560.7	63102.3	62778.7	63264.1	61823.7
18741.2	69°	32628.9	43082.4	50122.8	55258.2	59908.3	64203.5	65670.0	66024.9	62058.5
15510.7	70°	28902.5	40676.5	48050.9	53008.9	57278.0	62617.0	65758.8	65868.4	59981.4
8736.5	72.5°	18036.7	30489.1	37743.4	42482.2	45128.3	50185.4	55477.4	55388.7	47450.7
4884.9	75°	9472.4	17567.0	23480.1	25886.0	27368.2	29967.2	33547.4	33098.6	28521.6
2499.9	77.5°	4216.9	7463.1	9514.1	10876.3	11257.3	12014.0	12368.9	12076.6	11466.0
1346.5	80°	2045.8	3089.6	4018.6	4248.2	3976.8	3789.0	3877.7	3835.9	4196.0
777.6	82.5°	1017.7	1419.6	1602.2	1920.6	2828.7	3475.8	3575.0	3533.2	3167.9
469.7	85°	542.8	652.4	751.5	1377.8	2531.2	3173.1	3267.1	3251.4	2927.8
255.7	87.5°	302.7	375.8	542.8	1101.2	1529.2	1617.9	1706.6	1654.4	1701.4
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°
7671.9	7671.9	0°	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9
7692.7	7760.6	2.5°	7718.8	7760.6	7781.5	7703.2	7750.1	7708.4	7718.8
7812.8	7901.5	5°	7849.3	7948.5	7932.8	7932.8	7943.2	7880.6	7906.7
7922.4	8052.8	7.5°	8110.2	8146.8	8230.3	8199.0	8167.7	8105.0	8115.5
8219.8	8345.1	10°	8465.1	8465.1	8517.3	8465.1	8366.0	8324.2	8313.8
8522.5	8757.4	12.5°	8809.6	8757.4	8788.7	8637.4	8522.5	8439.0	8480.8
8793.9	9065.3	15°	9117.5	9107.1	8992.2	8799.1	8517.3	8366.0	8376.4
9263.6	9503.7	17.5°	9576.8	9482.8	9180.1	8679.1	8329.4	8183.3	8110.2
9702.0	9978.6	20°	10030.8	9769.9	9159.3	8486.0	8021.5	7781.5	7786.7
10072.6	10469.2	22.5°	10427.5	9879.5	9086.2	8240.7	7739.7	7416.1	7410.9
10594.5	10980.7	25°	10808.4	9816.8	8940.1	8016.3	7426.6	7113.4	7071.7
11053.7	11554.8	27.5°	11105.9	9759.4	8585.2	7656.2	6998.6	6742.9	6716.8
11471.3	12186.2	30°	11293.8	9634.2	8266.8	7233.5	6602.0	6351.5	6341.0
12238.4	12723.8	32.5°	11507.8	9441.1	7849.3	6857.7	6252.3	5980.9	5965.3
13141.3	13517.1	35°	11706.1	9148.8	7510.1	6502.8	5887.0	5568.6	5521.6
14242.5	14414.7	37.5°	11747.9	8825.2	7087.3	6080.1	5432.9	5125.0	5119.8
15646.4	15192.4	40°	11753.1	8433.8	6638.5	5657.3	4989.3	4676.2	4655.3
17165.1	15849.9	42.5°	11544.3	7985.0	6189.7	5156.3	4530.0	4159.5	4133.4
18976.1	16653.7	45°	11064.2	7447.4	5615.6	4603.1	4023.8	3679.4	3637.6
21115.9	17379.1	47.5°	10422.2	6774.2	5036.3	4039.5	3449.7	3136.6	3110.5
23448.7	17848.8	50°	9555.9	6017.4	4336.9	3428.8	2870.4	2614.7	2552.1
26173.0	17911.4	52.5°	8480.8	5151.1	3606.3	2792.1	2338.1	2113.7	2077.1
29147.8	17389.5	55°	7196.9	4216.9	2880.9	2228.5	1816.2	1644.0	1612.7
31898.2	16069.1	57.5°	5766.9	3246.2	2218.1	1722.3	1456.1	1336.1	1299.5
34956.5	13611.0	60°	4310.9	2447.7	1701.4	1367.4	1189.9	1106.4	1090.8
37686.0	10573.6	62.5°	3100.1	1842.3	1336.1	1142.9	1043.8	1002.0	991.6
39225.6	7103.0	65°	2280.7	1419.6	1111.6	1033.4	960.3	923.8	908.1
38964.7	4650.1	67.5°	1696.2	1137.7	986.4	939.4	887.2	850.7	840.3
36517.0	3705.5	69°	1430.0	1028.1	923.8	876.8	829.8	798.5	782.8
33615.3	3152.2	70°	1294.3	970.7	892.4	845.5	793.3	767.2	751.5
22551.1	2118.9	72.5°	1017.7	840.3	793.3	741.1	704.6	673.2	668.0
11847.0	1497.8	75°	840.3	720.2	683.7	641.9	605.4	574.1	574.1
5161.5	1075.1	77.5°	704.6	595.0	563.6	521.9	485.4	454.0	448.8
2479.0	777.6	80°	548.0	454.0	433.2	417.5	375.8	328.8	323.6
1310.0	558.4	82.5°	391.4	307.9	302.7	292.3	255.7	229.6	219.2
709.8	334.0	85°	245.3	177.4	161.8	140.9	125.3	125.3	125.3
344.5	146.1	87.5°	93.9	52.2	52.2	41.8	31.3	31.3	31.3
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)