

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: P628131

Luminaire Tested: **EPH-VN-08-E-735-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628131
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-735-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68540.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

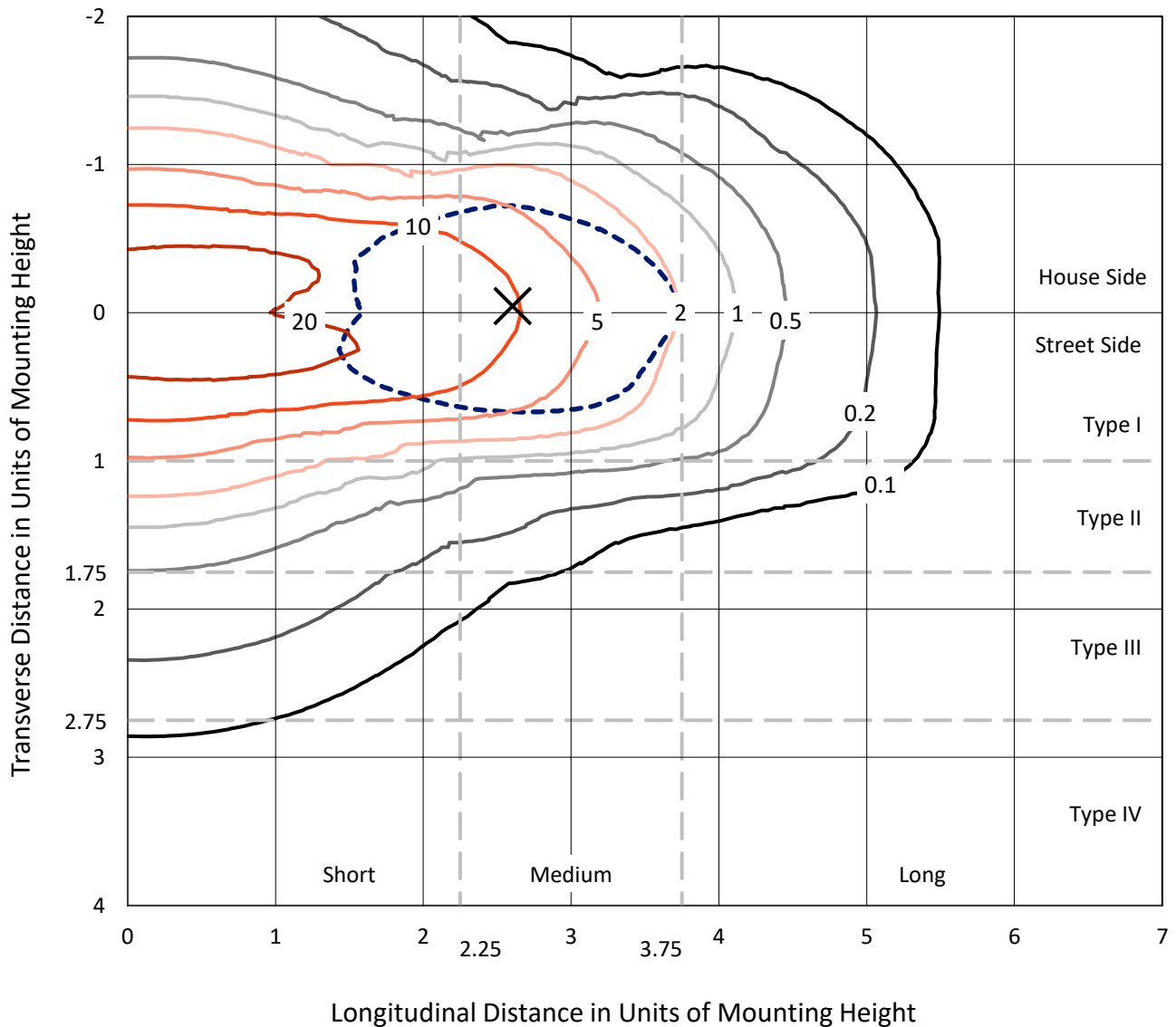
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

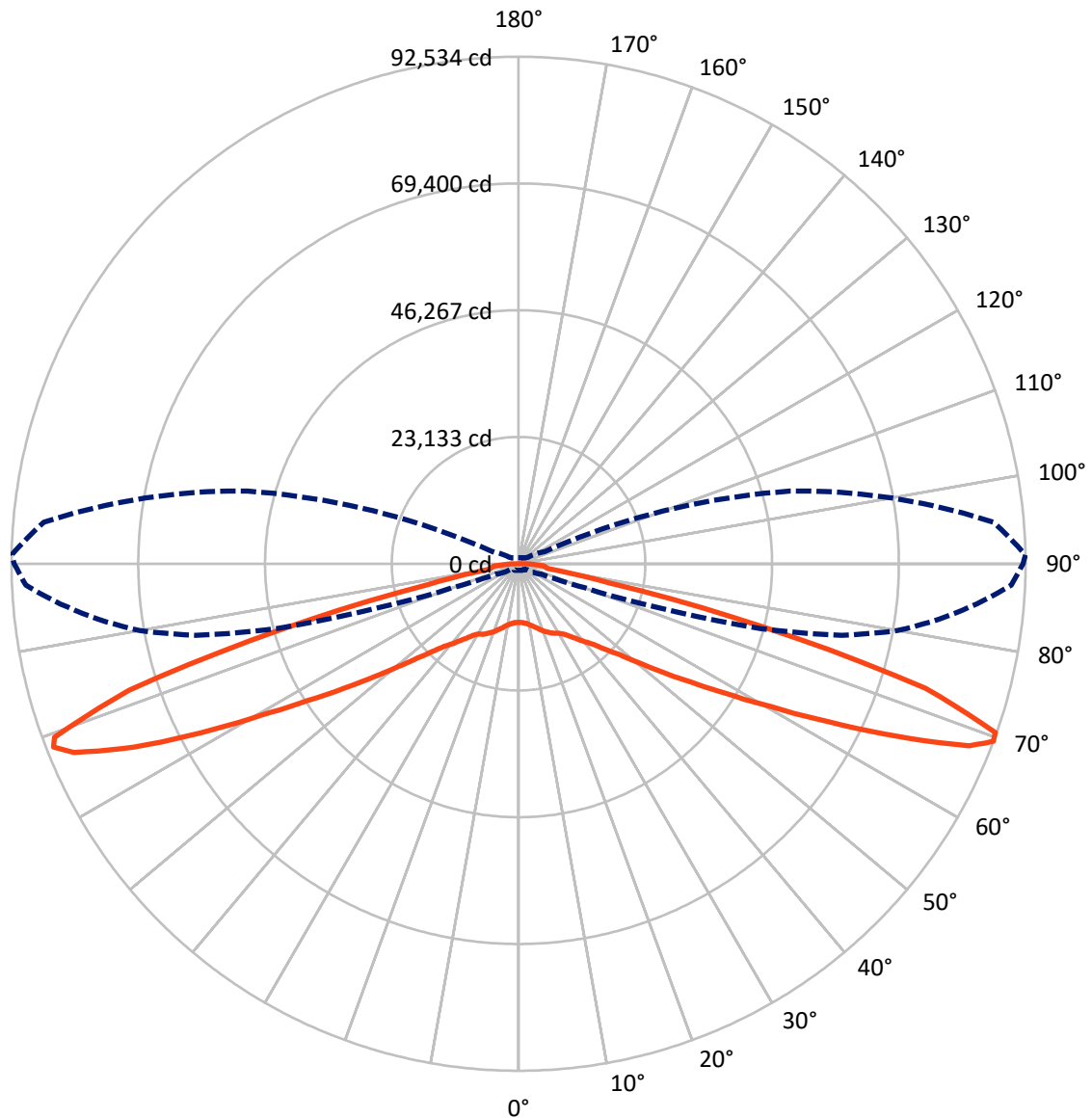
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.2 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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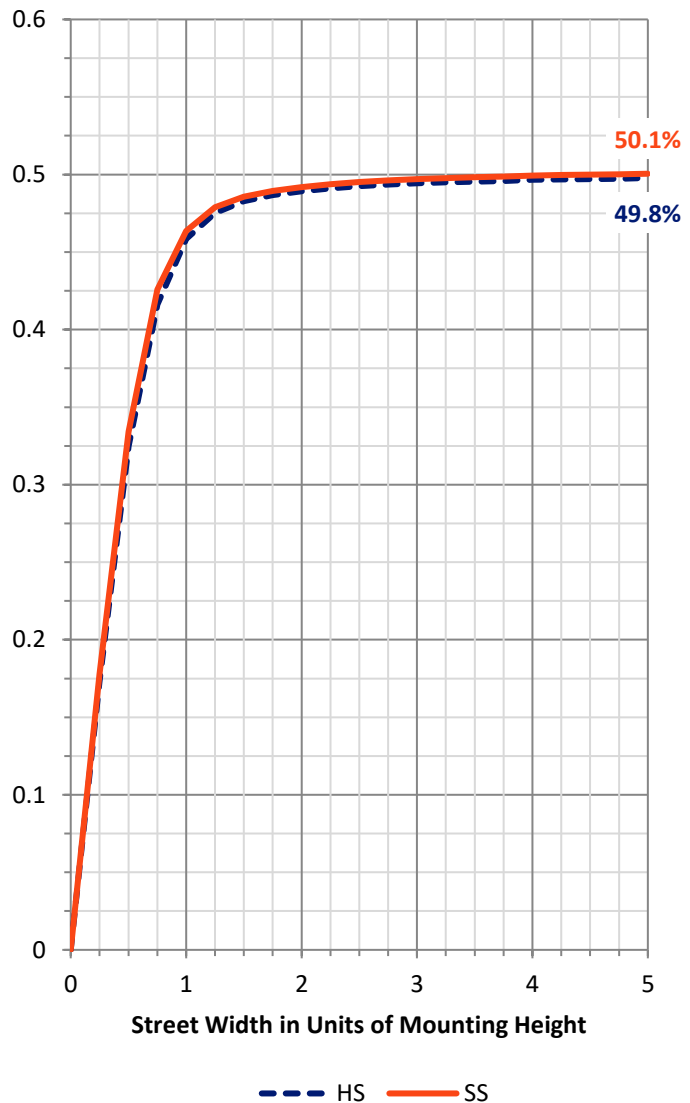
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34362.6	0.0	34362.6
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	34178.1	0.0	34178.1
	% Fixture	49.9	0.0	49.9
Total	Lumens	68540.7	0.0	68540.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.7	1.6
10°-20°	3535.4	5.2
20°-30°	6062.8	8.8
30°-40°	8375.4	12.2
40°-50°	10768.5	15.7
50°-60°	13398.2	19.5
60°-70°	16432.5	24.0
70°-80°	8106.1	11.8
80°-90°	782.0	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°	68540.7	100.0
0°-180°	68540.7	100.0

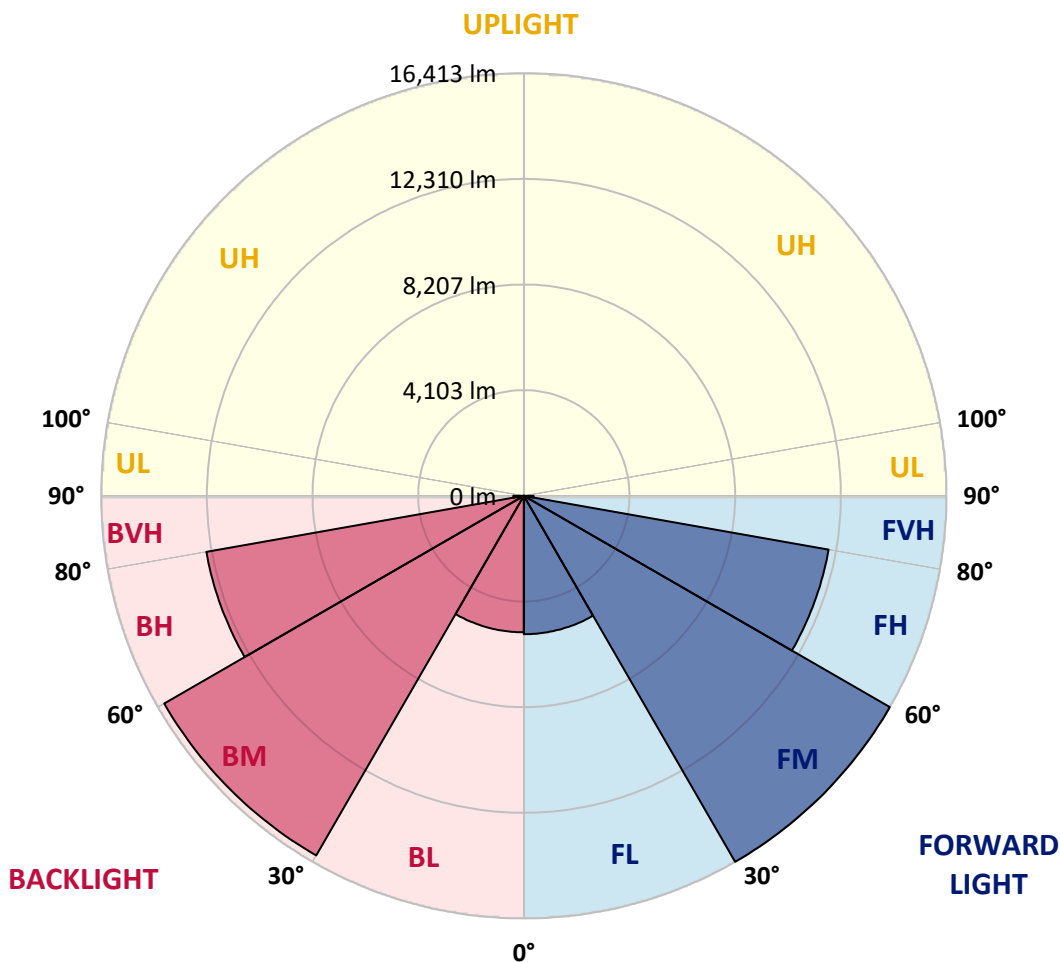


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5374.8	7.8			
FM (30°-60°)	16413.3	23.9			
FH (60°-80°)	12019.2	17.5			G5
FVH (80°-90°)	370.8	0.5			G3/500
BL (0°-30°)	5303.2	7.7	B5		
BM (30°-60°)	16128.8	23.5	B5		
BH (60°-80°)	12519.4	18.3	B5		G5
BVH (80°-90°)	411.2	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°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
2.5°	10847.2	10942.2	10861.8	10898.4	10942.2	10920.3	10905.7	10803.3	10839.8	10796.0
5°	11227.5	11293.3	11242.1	11234.8	11190.9	11183.6	11139.7	10978.8	11052.0	10949.6
7.5°	11556.6	11622.5	11556.6	11578.6	11593.2	11549.3	11512.8	11337.2	11351.8	11286.0
10°	11798.0	11900.4	11827.3	11973.6	11973.6	12032.1	11980.9	11724.9	11732.2	11651.7
12.5°	11958.9	12083.3	12054.0	12295.4	12419.7	12449.0	12507.5	12288.1	12273.5	12119.9
15°	11841.9	11863.9	12017.5	12390.5	12822.0	13026.8	13129.2	12873.2	12887.9	12712.3
17.5°	11468.9	11542.0	11688.3	12339.3	12887.9	13494.9	13699.7	13553.5	13524.2	13326.7
20°	11059.3	11073.9	11315.3	12061.3	12909.8	13780.2	14387.3	14270.3	14263.0	14138.6
22.5°	10547.3	10554.6	10891.0	11717.6	12844.0	13911.9	15001.7	15155.3	15052.9	14935.9
25°	9910.9	9991.4	10386.4	11315.3	12617.2	14050.8	15360.1	15864.8	15828.2	15718.5
27.5°	9311.1	9369.7	9801.2	10744.8	12134.5	13846.0	15879.4	16764.5	16669.4	16493.8
30°	8769.9	8865.0	9311.1	10159.6	11534.7	13590.0	16223.2	17503.2	17612.9	17415.4
32.5°	8184.7	8301.8	8769.9	9647.6	10978.8	13348.7	16515.8	18373.6	18644.2	18417.5
35°	7599.6	7687.4	8155.5	9099.0	10576.5	12814.7	16574.3	19500.0	19836.5	19712.1
37.5°	7087.6	7168.0	7628.9	8528.5	10035.3	12419.7	16442.6	20436.3	21043.3	21379.8
40°	6517.1	6619.5	7073.0	7979.9	9318.5	11834.6	16281.7	21482.2	22352.6	22798.8
42.5°	5880.7	6019.7	6458.6	7394.8	8762.6	11110.5	15799.0	22184.4	23537.5	24327.5
45°	5207.8	5310.2	5785.6	6648.7	8104.3	10269.3	15118.7	23040.2	24810.2	26273.1
47.5°	4395.9	4461.7	4944.5	5851.5	7182.7	9398.9	14255.6	23698.4	26236.5	28072.4
50°	3510.9	3576.7	3964.4	4878.7	6173.3	8316.4	12931.7	23976.4	27238.6	29813.2
52.5°	2742.9	2794.1	3101.3	3788.8	5017.6	7080.3	11381.1	23910.6	27874.9	31619.9
55°	2135.8	2179.7	2399.1	2918.4	3847.3	5617.4	9757.3	22703.7	28072.4	32885.3
57.5°	1835.9	1857.8	1960.2	2260.1	2947.7	4256.9	7694.7	20582.5	27099.6	33741.0
60°	1616.5	1623.8	1704.2	1909.0	2282.1	3167.1	5624.7	17196.0	24678.6	33199.8
62.5°	1506.8	1514.1	1558.0	1696.9	1887.1	2391.8	3986.3	13209.7	20385.1	30968.9
65°	1411.7	1419.0	1455.6	1543.3	1623.8	1916.4	2933.0	8711.4	14687.2	25234.5
67.5°	1287.3	1302.0	1338.5	1411.7	1477.5	1594.5	2230.9	5617.4	9245.3	17430.1
69°	1206.9	1221.5	1258.1	1316.6	1375.1	1484.8	1931.0	4483.7	6977.9	12814.7
70°	1148.4	1163.0	1206.9	1265.4	1316.6	1419.0	1777.4	3979.0	5961.2	10430.2
72.5°	1002.1	1016.7	1045.9	1104.5	1163.0	1236.1	1433.6	2845.3	4052.1	6407.4
75°	855.8	863.1	885.0	943.5	1002.1	1060.6	1206.9	2011.4	2691.7	3935.1
77.5°	665.6	672.9	702.2	768.0	804.6	885.0	1024.0	1397.0	1762.8	2289.4
80°	482.7	504.7	541.3	599.8	621.7	665.6	789.9	1002.1	1163.0	1404.4
82.5°	329.1	343.8	380.3	431.5	446.2	446.2	563.2	738.7	826.5	914.3
85°	190.2	197.5	190.2	219.4	256.0	263.3	365.7	446.2	512.0	592.5
87.5°	58.5	58.5	58.5	73.1	87.8	95.1	160.9	204.8	256.0	307.2
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°
10752.1	0°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
10803.3	2.5°	10774.0	10861.8	10759.4	10752.1	10744.8	10693.6	10730.1	10722.8	10803.3
10993.4	5°	10927.6	10927.6	10869.1	10913.0	10898.4	10730.1	10883.7	10883.7	10964.2
11234.8	7.5°	11147.0	11161.7	11132.4	11110.5	11081.2	10956.9	11052.0	11037.3	11103.2
11681.0	10°	11571.3	11556.6	11425.0	11425.0	11395.7	11264.1	11322.6	11366.5	11490.8
12112.5	12.5°	12032.1	11937.0	11951.6	11900.4	11805.3	11578.6	11666.4	11673.7	11798.0
12719.6	15°	12536.8	12434.4	12390.5	12346.6	12251.5	12039.4	12163.7	12090.6	12178.4
13275.5	17.5°	13217.0	13085.3	12931.7	12814.7	12675.7	12507.5	12566.0	12624.5	12683.1
13999.6	20°	13970.4	13758.3	13582.7	13392.5	13275.5	13063.4	13136.5	13143.9	13209.7
14760.3	22.5°	14570.2	14387.3	14189.8	14050.8	13809.5	13597.3	13516.9	13531.5	13648.5
15543.0	25°	15352.8	15023.6	14826.2	14599.4	14387.3	14021.6	13985.0	13999.6	14189.8
16420.7	27.5°	16033.0	15762.4	15433.2	15089.5	14782.3	14489.7	14445.8	14394.6	14621.4
17225.3	30°	16918.1	16515.8	15989.1	15660.0	15148.0	14738.4	14679.9	14731.1	14862.7
18402.9	32.5°	17868.9	17444.7	16888.8	16464.6	15842.8	15367.4	15301.6	15352.8	15594.2
19617.0	35°	19266.0	18805.2	18132.2	17481.3	16888.8	16369.5	16332.9	16252.5	16574.3
21284.7	37.5°	20940.9	20326.5	19690.2	18966.1	18337.0	17605.6	17393.5	17459.3	17722.6
22901.2	40°	22828.0	22242.9	21445.6	20619.1	19851.1	19075.8	18768.6	18724.7	19185.5
25007.7	42.5°	25007.7	24605.4	23442.4	22462.3	21452.9	20480.1	20114.4	20136.4	20560.6
27355.6	45°	27553.1	27253.2	26221.9	24993.1	23808.2	22572.0	22330.7	22345.3	22915.8
29476.8	47.5°	30559.3	30749.5	29776.7	28482.0	27019.2	25527.0	24941.9	24795.6	25431.9
32117.2	50°	33602.1	34801.6	34070.2	32834.1	31107.9	29345.1	28591.7	28328.4	29242.7
34735.8	52.5°	37164.1	39095.1	39321.9	38371.0	36432.7	33967.8	33133.9	32863.3	34026.3
37376.3	55°	40857.9	43805.6	44910.0	45041.7	42730.3	40024.0	38451.5	38136.9	39958.2
39687.6	57.5°	44588.2	49042.6	51302.7	52641.3	50703.0	47184.8	44946.6	44610.1	47835.8
41530.8	60°	48420.9	54462.5	58090.4	61469.7	60350.6	56444.7	52985.0	52999.7	57417.5
42320.7	62.5°	51222.3	58821.9	64600.2	70049.4	71058.8	68337.8	63956.5	63510.4	68184.2
39965.5	65°	52714.4	62939.9	70034.8	76500.6	80018.8	79887.2	76317.8	75922.8	79360.5
33148.6	67.5°	50483.5	63093.5	71987.7	78424.3	84875.5	88437.6	87984.1	88664.4	86645.6
26265.8	69°	45729.2	60379.8	70246.9	77444.2	83961.3	89981.0	92036.3	92533.7	86974.8
21738.2	70°	40506.8	57007.9	67343.1	74291.7	80274.8	87757.4	92160.6	92314.2	84063.7
12244.2	72.5°	25278.3	42730.3	52897.3	59538.7	63247.1	70334.6	77751.4	77627.0	66501.9
6846.2	75°	13275.5	24620.1	32907.2	36279.1	38356.4	41998.9	47016.5	46387.5	39972.8
3503.6	77.5°	5910.0	10459.5	13334.0	15243.1	15777.0	16837.6	17335.0	16925.4	16069.6
1887.1	80°	2867.2	4330.1	5632.0	5953.9	5573.5	5310.2	5434.6	5376.0	5880.7
1089.8	82.5°	1426.3	1989.5	2245.5	2691.7	3964.4	4871.3	5010.3	4951.8	4439.8
658.3	85°	760.7	914.3	1053.3	1931.0	3547.5	4447.1	4578.8	4556.8	4103.3
358.4	87.5°	424.2	526.6	760.7	1543.3	2143.1	2267.4	2391.8	2318.6	2384.5
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°
10752.1	10752.1	0°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
10781.3	10876.4	2.5°	10817.9	10876.4	10905.7	10796.0	10861.8	10803.3	10817.9
10949.6	11073.9	5°	11000.8	11139.7	11117.8	11117.8	11132.4	11044.6	11081.2
11103.2	11286.0	7.5°	11366.5	11417.7	11534.7	11490.8	11446.9	11359.2	11373.8
11520.1	11695.6	10°	11863.9	11863.9	11937.0	11863.9	11724.9	11666.4	11651.7
11944.3	12273.5	12.5°	12346.6	12273.5	12317.3	12105.2	11944.3	11827.3	11885.8
12324.7	12705.0	15°	12778.1	12763.5	12602.6	12332.0	11937.0	11724.9	11739.5
12982.9	13319.4	17.5°	13421.8	13290.1	12865.9	12163.7	11673.7	11468.9	11366.5
13597.3	13985.0	20°	14058.2	13692.4	12836.7	11893.1	11242.1	10905.7	10913.0
14116.7	14672.6	22.5°	14614.0	13846.0	12734.3	11549.3	10847.2	10393.7	10386.4
14848.1	15389.4	25°	15148.0	13758.3	12529.5	11234.8	10408.3	9969.4	9910.9
15491.8	16193.9	27.5°	15564.9	13677.8	12032.1	10730.1	9808.5	9450.1	9413.5
16076.9	17079.0	30°	15828.2	13502.3	11585.9	10137.7	9252.6	8901.5	8886.9
17152.1	17832.3	32.5°	16128.1	13231.6	11000.8	9611.0	8762.6	8382.2	8360.3
18417.5	18944.1	35°	16406.1	12822.0	10525.3	9113.7	8250.6	7804.4	7738.6
19960.8	20202.2	37.5°	16464.6	12368.5	9932.9	8521.2	7614.2	7182.7	7175.4
21928.4	21292.0	40°	16471.9	11820.0	9303.8	7928.7	6992.5	6553.6	6524.4
24056.8	22213.6	42.5°	16179.3	11190.9	8674.8	7226.6	6348.8	5829.5	5793.0
26594.9	23340.0	45°	15506.4	10437.6	7870.2	6451.2	5639.4	5156.6	5098.1
29593.8	24356.7	47.5°	14606.7	9494.0	7058.3	5661.3	4834.8	4395.9	4359.3
32863.3	25015.0	50°	13392.5	8433.4	6078.2	4805.5	4022.9	3664.5	3576.7
36681.4	25102.8	52.5°	11885.8	7219.2	5054.2	3913.2	3276.8	2962.3	2911.1
40850.6	24371.4	55°	10086.5	5910.0	4037.5	3123.2	2545.4	2304.0	2260.1
44705.2	22520.8	57.5°	8082.3	4549.5	3108.6	2413.7	2040.7	1872.5	1821.3
48991.4	19075.8	60°	6041.6	3430.4	2384.5	1916.4	1667.7	1550.6	1528.7
52816.8	14818.8	62.5°	4344.7	2582.0	1872.5	1601.8	1462.9	1404.4	1389.7
54974.5	9954.8	65°	3196.4	1989.5	1558.0	1448.2	1345.8	1294.6	1272.7
54608.8	6517.1	67.5°	2377.2	1594.5	1382.4	1316.6	1243.4	1192.2	1177.6
51178.4	5193.2	69°	2004.1	1440.9	1294.6	1228.8	1163.0	1119.1	1097.2
47111.6	4417.9	70°	1814.0	1360.5	1250.8	1184.9	1111.8	1075.2	1053.3
31605.2	2969.6	72.5°	1426.3	1177.6	1111.8	1038.6	987.4	943.5	936.2
16603.5	2099.2	75°	1177.6	1009.4	958.2	899.7	848.5	804.6	804.6
7233.9	1506.8	77.5°	987.4	833.8	789.9	731.4	680.2	636.3	629.0
3474.3	1089.8	80°	768.0	636.3	607.1	585.1	526.6	460.8	453.5
1835.9	782.6	82.5°	548.6	431.5	424.2	409.6	358.4	321.8	307.2
994.7	468.1	85°	343.8	248.7	226.7	197.5	175.5	175.5	175.5
482.7	204.8	87.5°	131.7	73.1	73.1	58.5	43.9	43.9	43.9
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)