

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: P977499

Luminaire Tested: **EPH-VN-08-E-740-U-T1**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-T1
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T1
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68540.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' 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: 28.75 FT

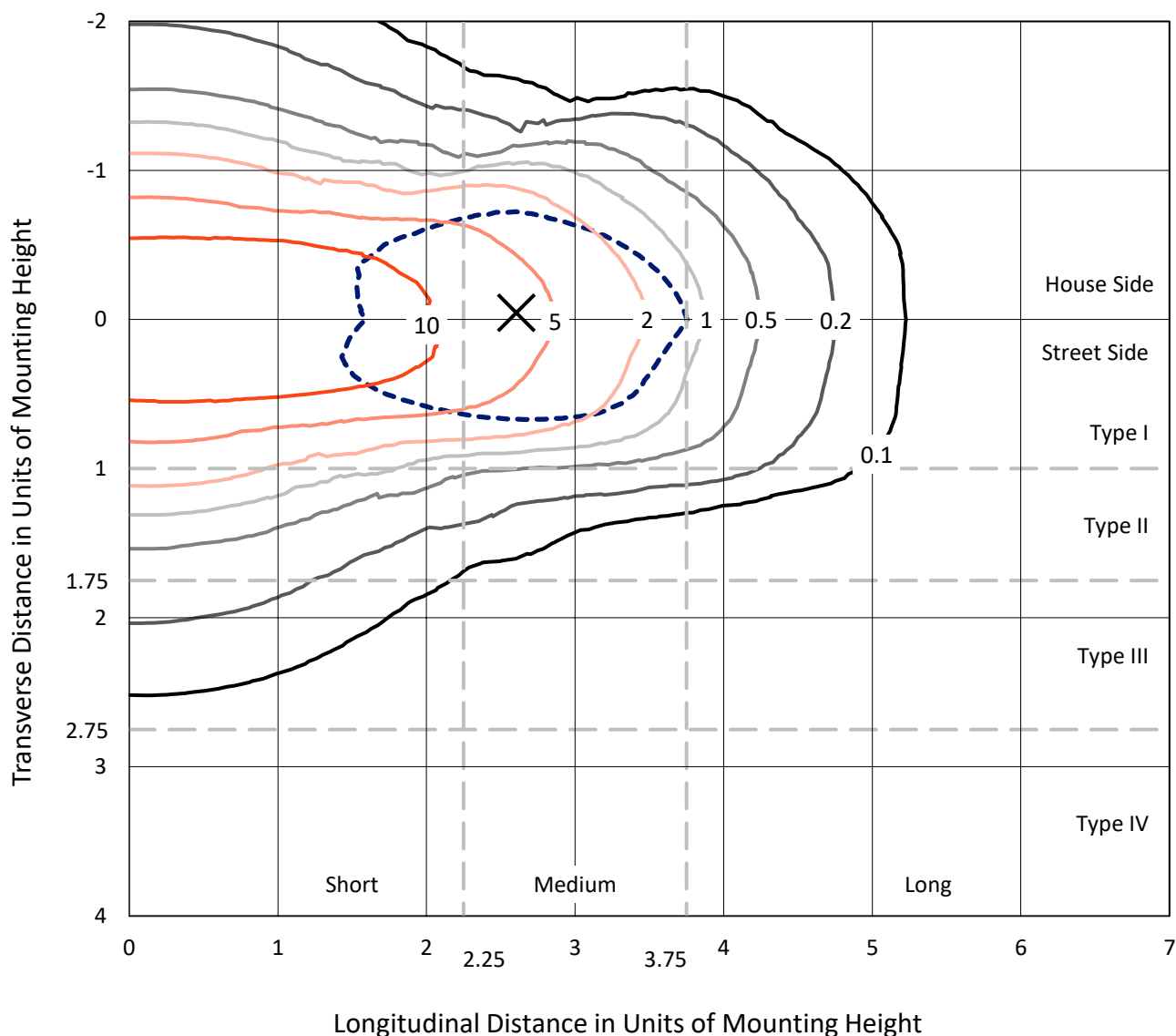
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

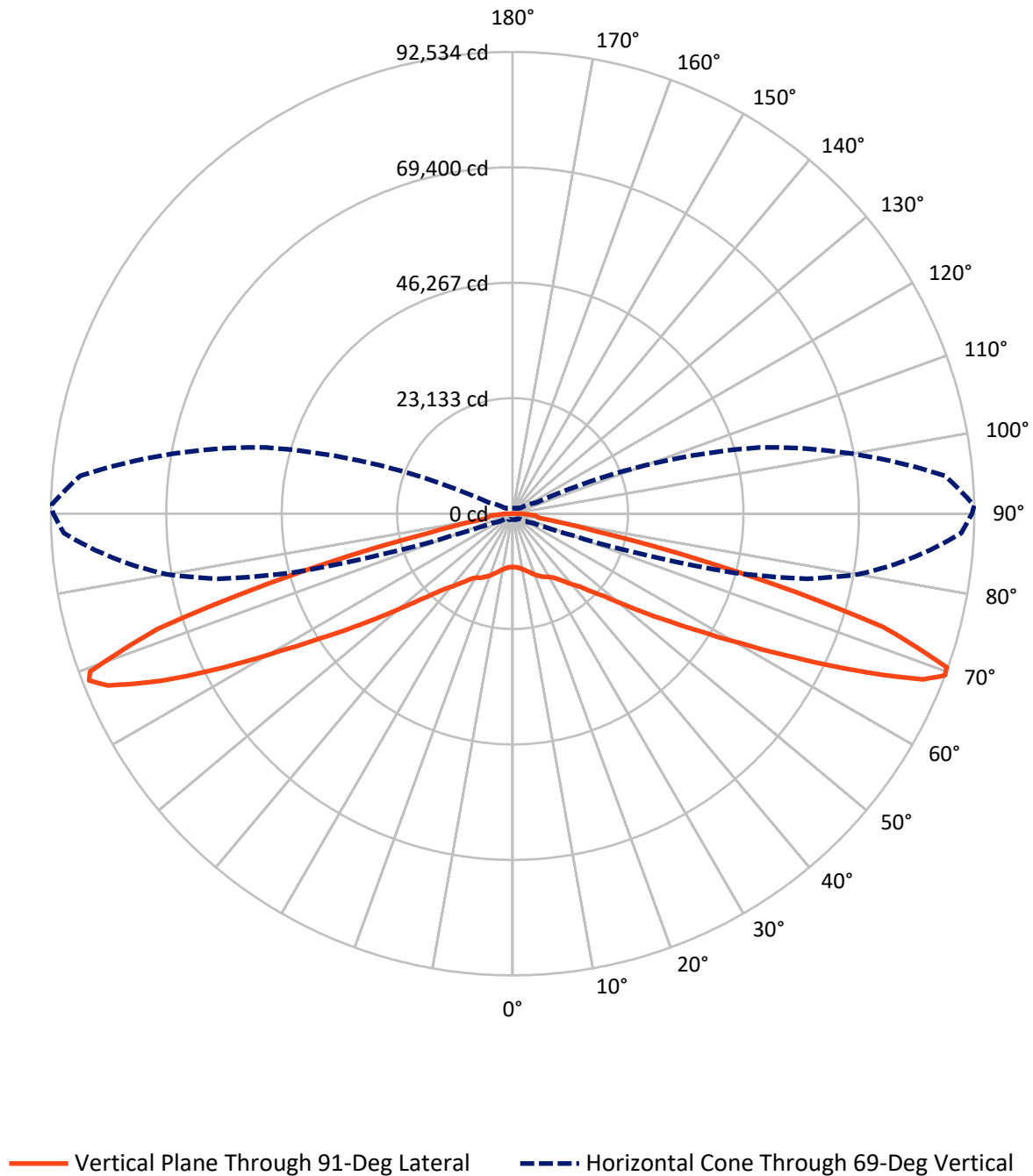


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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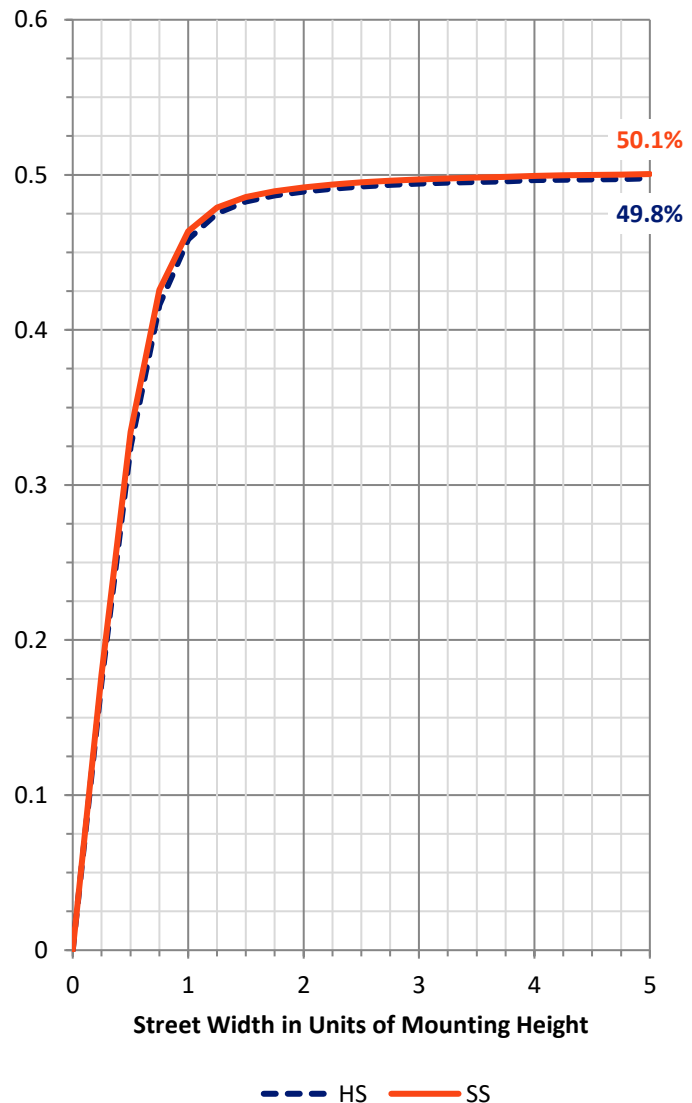
FLUX DISTRIBUTION:

		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	68540.6	0.0	68540.6
	% Fixture	100.0	0.0	100.0

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°	13398.1	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°	68540.6	100.0
0°-180°	68540.6	100.0

Coefficient of Utilization



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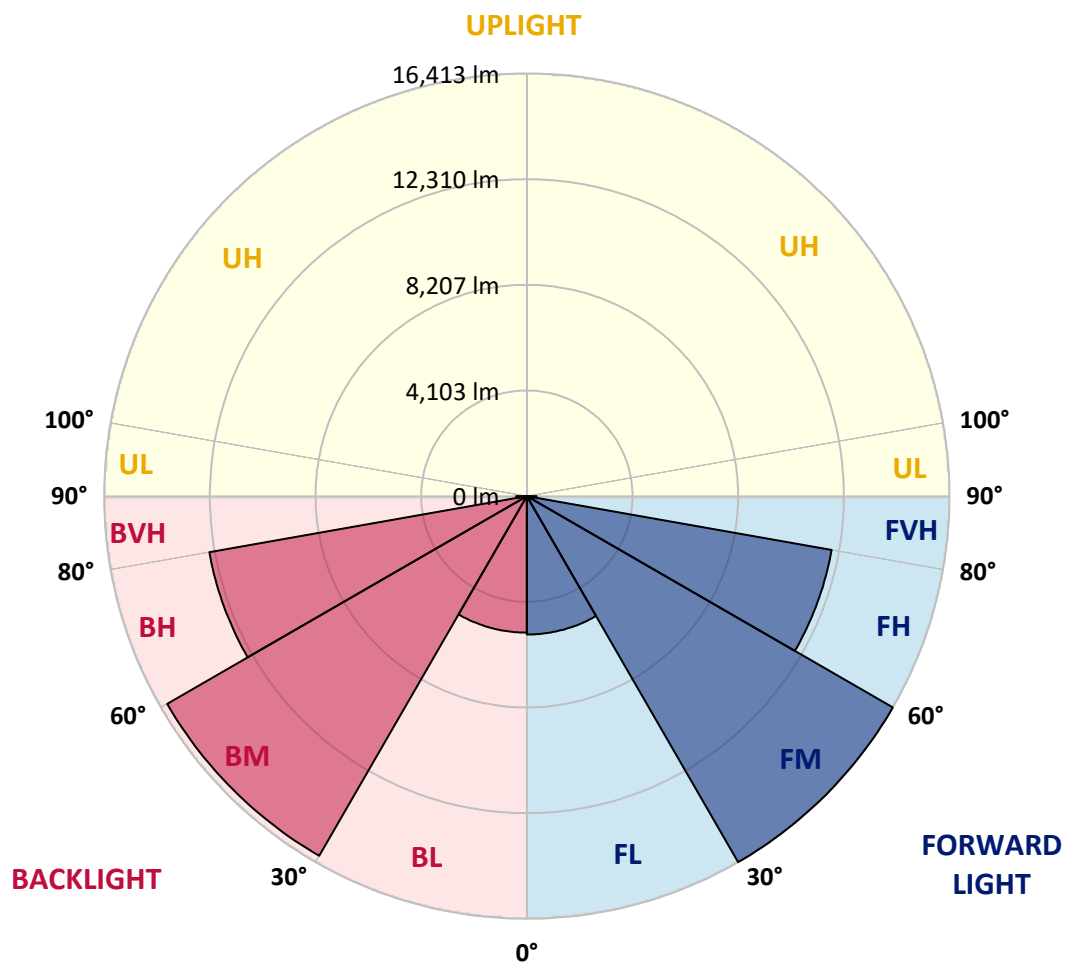
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5374.8	7.8			
FM	(30°-60°)	16413.2	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°)	12519.3	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°	72.5°
0°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
2.5°	10847.1	10942.2	10861.8	10898.3	10942.2	10920.3	10905.7	10803.3	10839.8	10795.9	10803.3
5°	11227.5	11293.3	11242.1	11234.8	11190.9	11183.6	11139.7	10978.8	11051.9	10949.5	10993.4
7.5°	11556.6	11622.5	11556.6	11578.6	11593.2	11549.3	11512.7	11337.2	11351.8	11286.0	11234.8
10°	11798.0	11900.4	11827.3	11973.6	11973.6	12032.1	11980.9	11724.9	11732.2	11651.7	11681.0
12.5°	11958.9	12083.3	12054.0	12295.4	12419.7	12449.0	12507.5	12288.1	12273.4	12119.8	12112.5
15°	11841.9	11863.8	12017.4	12390.5	12822.0	13026.8	13129.2	12873.2	12887.8	12712.3	12719.6
17.5°	11468.9	11542.0	11688.3	12339.3	12887.8	13494.9	13699.7	13553.4	13524.2	13326.7	13275.5
20°	11059.3	11073.9	11315.3	12061.3	12909.8	13780.2	14387.3	14270.3	14262.9	14138.6	13999.6
22.5°	10547.3	10554.6	10891.0	11717.6	12844.0	13911.8	15001.7	15155.3	15052.9	14935.9	14760.3
25°	9910.9	9991.4	10386.3	11315.3	12617.2	14050.8	15360.1	15864.8	15828.2	15718.5	15542.9
27.5°	9311.1	9369.7	9801.2	10744.7	12134.5	13846.0	15879.4	16764.4	16669.3	16493.8	16420.7
30°	8769.9	8865.0	9311.1	10159.6	11534.7	13590.0	16223.2	17503.2	17612.9	17415.4	17225.2
32.5°	8184.7	8301.8	8769.9	9647.6	10978.8	13348.6	16515.7	18373.6	18644.2	18417.5	18402.8
35°	7599.6	7687.4	8155.5	9099.0	10576.5	12814.7	16574.3	19500.0	19836.5	19712.1	19617.0
37.5°	7087.6	7168.0	7628.8	8528.5	10035.3	12419.7	16442.6	20436.2	21043.3	21379.8	21284.7
40°	6517.1	6619.5	7073.0	7979.9	9318.5	11834.6	16281.7	21482.2	22352.6	22798.8	22901.2
42.5°	5880.7	6019.7	6458.6	7394.8	8762.6	11110.5	15798.9	22184.4	23537.5	24327.4	25007.7
45°	5207.8	5310.2	5785.6	6648.7	8104.3	10269.3	15118.7	23040.1	24810.2	26273.1	27355.6
47.5°	4395.9	4461.7	4944.5	5851.5	7182.7	9398.9	14255.6	23698.4	26236.5	28072.4	29476.7
50°	3510.9	3576.7	3964.4	4878.7	6173.3	8316.4	12931.7	23976.4	27238.6	29813.2	32117.2
52.5°	2742.9	2794.1	3101.3	3788.8	5017.6	7080.3	11381.1	23910.5	27874.9	31619.8	34735.7
55°	2135.8	2179.7	2399.1	2918.4	3847.3	5617.4	9757.3	22703.7	28072.4	32885.2	37376.2
57.5°	1835.9	1857.8	1960.2	2260.1	2947.7	4256.9	7694.7	20582.5	27099.6	33741.0	39687.5
60°	1616.5	1623.8	1704.2	1909.0	2282.1	3167.1	5624.7	17196.0	24678.5	33199.7	41530.7
62.5°	1506.8	1514.1	1558.0	1696.9	1887.1	2391.8	3986.3	13209.7	20385.0	30968.9	42320.7
65°	1411.7	1419.0	1455.6	1543.3	1623.8	1916.4	2933.0	8711.4	14687.2	25234.4	39965.5
67.5°	1287.3	1302.0	1338.5	1411.7	1477.5	1594.5	2230.9	5617.4	9245.3	17430.0	33148.5
69°	1206.9	1221.5	1258.1	1316.6	1375.1	1484.8	1931.0	4483.7	6977.9	12814.7	26265.7
70°	1148.3	1163.0	1206.9	1265.4	1316.6	1419.0	1777.4	3979.0	5961.2	10430.2	21738.2
72.5°	1002.1	1016.7	1045.9	1104.5	1163.0	1236.1	1433.6	2845.3	4052.1	6407.3	12244.2
75°	855.8	863.1	885.0	943.5	1002.1	1060.6	1206.9	2011.4	2691.7	3935.1	6846.2
77.5°	665.6	672.9	702.2	768.0	804.6	885.0	1024.0	1397.0	1762.8	2289.4	3503.6
80°	482.7	504.7	541.3	599.8	621.7	665.6	789.9	1002.1	1163.0	1404.4	1887.1
82.5°	329.1	343.8	380.3	431.5	446.2	446.2	563.2	738.7	826.5	914.3	1089.8
85°	190.2	197.5	190.2	219.4	256.0	263.3	365.7	446.2	512.0	592.5	658.3
87.5°	58.5	58.5	58.5	73.1	87.8	95.1	160.9	204.8	256.0	307.2	358.4
90°	0.0	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):

	75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°	105°	115°
0°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
2.5°	10774.0	10861.8	10759.4	10752.1	10744.7	10693.5	10730.1	10722.8	10803.3	10781.3	10876.4
5°	10927.6	10927.6	10869.1	10913.0	10898.3	10730.1	10883.7	10883.7	10964.2	10949.5	11073.9
7.5°	11147.0	11161.7	11132.4	11110.5	11081.2	10956.9	11051.9	11037.3	11103.1	11103.1	11286.0
10°	11571.3	11556.6	11425.0	11425.0	11395.7	11264.1	11322.6	11366.5	11490.8	11520.1	11695.6
12.5°	12032.1	11937.0	11951.6	11900.4	11805.3	11578.6	11666.4	11673.7	11798.0	11944.3	12273.4
15°	12536.8	12434.4	12390.5	12346.6	12251.5	12039.4	12163.7	12090.6	12178.4	12324.6	12705.0
17.5°	13217.0	13085.3	12931.7	12814.7	12675.7	12507.5	12566.0	12624.5	12683.0	12982.9	13319.4
20°	13970.4	13758.2	13582.7	13392.5	13275.5	13063.4	13136.5	13143.8	13209.7	13597.3	13985.0
22.5°	14570.1	14387.3	14189.8	14050.8	13809.4	13597.3	13516.9	13531.5	13648.5	14116.7	14672.5
25°	15352.8	15023.6	14826.1	14599.4	14387.3	14021.6	13985.0	13999.6	14189.8	14848.1	15389.3
27.5°	16033.0	15762.4	15433.2	15089.5	14782.3	14489.7	14445.8	14394.6	14621.3	15491.7	16193.9
30°	16918.0	16515.7	15989.1	15660.0	15148.0	14738.4	14679.9	14731.1	14862.7	16076.9	17079.0
32.5°	17868.9	17444.7	16888.8	16464.5	15842.8	15367.4	15301.6	15352.8	15594.1	17152.1	17832.3
35°	19265.9	18805.1	18132.2	17481.2	16888.8	16369.5	16332.9	16252.4	16574.3	18417.5	18944.1
37.5°	20940.9	20326.5	19690.2	18966.0	18337.0	17605.6	17393.5	17459.3	17722.6	19960.8	20202.2
40°	22828.0	22242.9	21445.6	20619.1	19851.1	19075.8	18768.6	18724.7	19185.5	21928.4	21292.0
42.5°	25007.7	24605.4	23442.4	22462.3	21452.9	20480.1	20114.4	20136.3	20560.6	24056.8	22213.6
45°	27553.1	27253.2	26221.9	24993.1	23808.1	22572.0	22330.6	22345.3	22915.8	26594.9	23340.0
47.5°	30559.3	30749.4	29776.6	28482.0	27019.1	25527.0	24941.9	24795.6	25431.9	29593.8	24356.7
50°	33602.0	34801.6	34070.1	32834.0	31107.8	29345.1	28591.7	28328.4	29242.7	32863.3	25015.0
52.5°	37164.1	39095.1	39321.8	38371.0	36432.7	33967.7	33133.9	32863.3	34026.2	36681.3	25102.8
55°	40857.8	43805.5	44910.0	45041.6	42730.3	40024.0	38451.4	38136.9	39958.2	40850.5	24371.3
57.5°	44588.1	49042.6	51302.7	52641.2	50702.9	47184.7	44946.5	44610.1	47835.7	44705.2	22520.8
60°	48420.8	54462.5	58090.4	61469.6	60350.5	56444.7	52985.0	52999.6	57417.5	48991.4	19075.8
62.5°	51222.2	58821.8	64600.1	70049.3	71058.7	68337.8	63956.5	63510.3	68184.2	52816.8	14818.8
65°	52714.4	62939.8	70034.7	76500.5	80018.7	79887.1	76317.7	75922.7	79360.4	54974.5	9954.8
67.5°	50483.5	63093.4	71987.6	78424.2	84875.4	88437.5	87984.0	88664.3	86645.5	54608.8	6517.1
69°	45729.2	60379.8	70246.8	77444.1	83961.2	89980.8	92036.2	92533.5	86974.7	51178.3	5193.2
70°	40506.7	57007.9	67343.0	74291.6	80274.7	87757.3	92160.5	92314.1	84063.6	47111.6	4417.9
72.5°	25278.3	42730.3	52897.2	59538.6	63247.0	70334.6	77751.3	77626.9	66501.9	31605.2	2969.6
75°	13275.5	24620.0	32907.2	36279.1	38356.3	41998.9	47016.5	46387.5	39972.8	16603.5	2099.2
77.5°	5910.0	10459.5	13334.0	15243.1	15777.0	16837.6	17335.0	16925.4	16069.6	7233.9	1506.8
80°	2867.2	4330.1	5632.0	5953.9	5573.5	5310.2	5434.5	5376.0	5880.7	3474.3	1089.8
82.5°	1426.3	1989.5	2245.5	2691.7	3964.4	4871.3	5010.3	4951.8	4439.8	1835.9	782.6
85°	760.7	914.3	1053.3	1931.0	3547.4	4447.1	4578.8	4556.8	4103.3	994.7	468.1
87.5°	424.2	526.6	760.7	1543.3	2143.1	2267.4	2391.8	2318.6	2384.5	482.7	204.8
90°	0.0	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):

	125°	135°	145°	155°	165°	175°	180°
0°	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1	10752.1
2.5°	10817.9	10876.4	10905.7	10795.9	10861.8	10803.3	10817.9
5°	11000.7	11139.7	11117.8	11117.8	11132.4	11044.6	11081.2
7.5°	11366.5	11417.7	11534.7	11490.8	11446.9	11359.1	11373.8
10°	11863.8	11863.8	11937.0	11863.8	11724.9	11666.4	11651.7
12.5°	12346.6	12273.4	12317.3	12105.2	11944.3	11827.3	11885.8
15°	12778.1	12763.5	12602.6	12332.0	11937.0	11724.9	11739.5
17.5°	13421.8	13290.1	12865.9	12163.7	11673.7	11468.9	11366.5
20°	14058.1	13692.4	12836.6	11893.1	11242.1	10905.7	10913.0
22.5°	14614.0	13846.0	12734.2	11549.3	10847.1	10393.7	10386.3
25°	15148.0	13758.2	12529.4	11234.8	10408.3	9969.4	9910.9
27.5°	15564.9	13677.8	12032.1	10730.1	9808.5	9450.1	9413.5
30°	15828.2	13502.2	11585.9	10137.7	9252.6	8901.5	8886.9
32.5°	16128.1	13231.6	11000.7	9611.0	8762.6	8382.2	8360.3
35°	16406.0	12822.0	10525.3	9113.7	8250.6	7804.4	7738.6
37.5°	16464.5	12368.5	9932.9	8521.2	7614.2	7182.7	7175.4
40°	16471.9	11820.0	9303.8	7928.7	6992.5	6553.6	6524.4
42.5°	16179.3	11190.9	8674.8	7226.6	6348.8	5829.5	5792.9
45°	15506.4	10437.5	7870.2	6451.2	5639.3	5156.6	5098.1
47.5°	14606.7	9494.0	7058.3	5661.3	4834.8	4395.9	4359.3
50°	13392.5	8433.4	6078.2	4805.5	4022.9	3664.5	3576.7
52.5°	11885.8	7219.2	5054.2	3913.2	3276.8	2962.3	2911.1
55°	10086.5	5910.0	4037.5	3123.2	2545.4	2304.0	2260.1
57.5°	8082.3	4549.5	3108.6	2413.7	2040.7	1872.5	1821.3
60°	6041.6	3430.4	2384.5	1916.4	1667.7	1550.6	1528.7
62.5°	4344.7	2582.0	1872.5	1601.8	1462.9	1404.4	1389.7
65°	3196.4	1989.5	1558.0	1448.2	1345.8	1294.6	1272.7
67.5°	2377.2	1594.5	1382.4	1316.6	1243.4	1192.2	1177.6
69°	2004.1	1440.9	1294.6	1228.8	1163.0	1119.1	1097.1
70°	1814.0	1360.5	1250.7	1184.9	1111.8	1075.2	1053.3
72.5°	1426.3	1177.6	1111.8	1038.6	987.4	943.5	936.2
75°	1177.6	1009.4	958.2	899.7	848.5	804.6	804.6
77.5°	987.4	833.8	789.9	731.4	680.2	636.3	629.0
80°	768.0	636.3	607.1	585.1	526.6	460.8	453.5
82.5°	548.6	431.5	424.2	409.6	358.4	321.8	307.2
85°	343.8	248.7	226.7	197.5	175.5	175.5	175.5
87.5°	131.7	73.1	73.1	58.5	43.9	43.9	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)