

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: P977497

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

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977497
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-730-U-T1
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T1 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

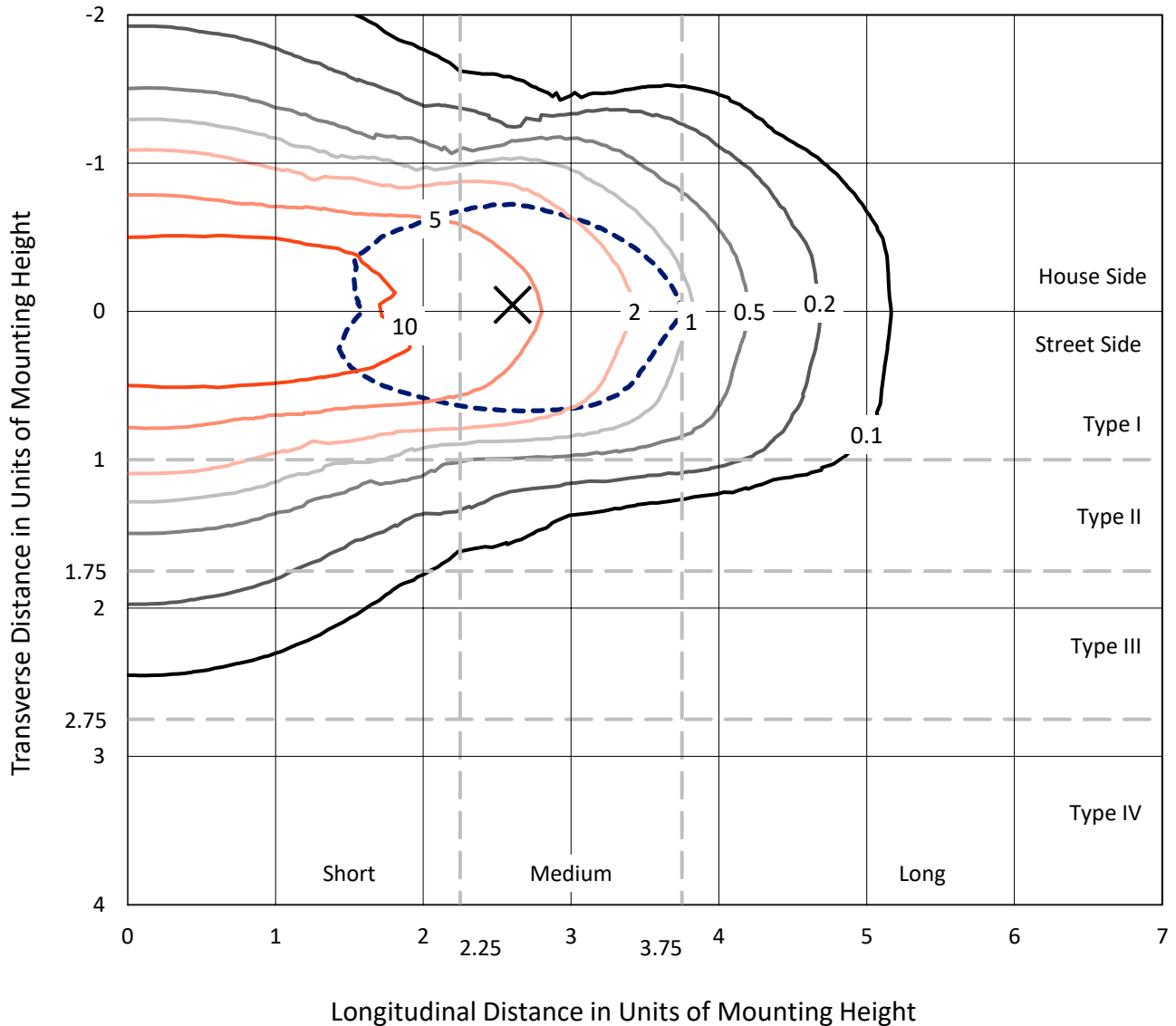
Lumens per Lamp: N/A
Luminaire Lumens: 62413.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (A_{in}): 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

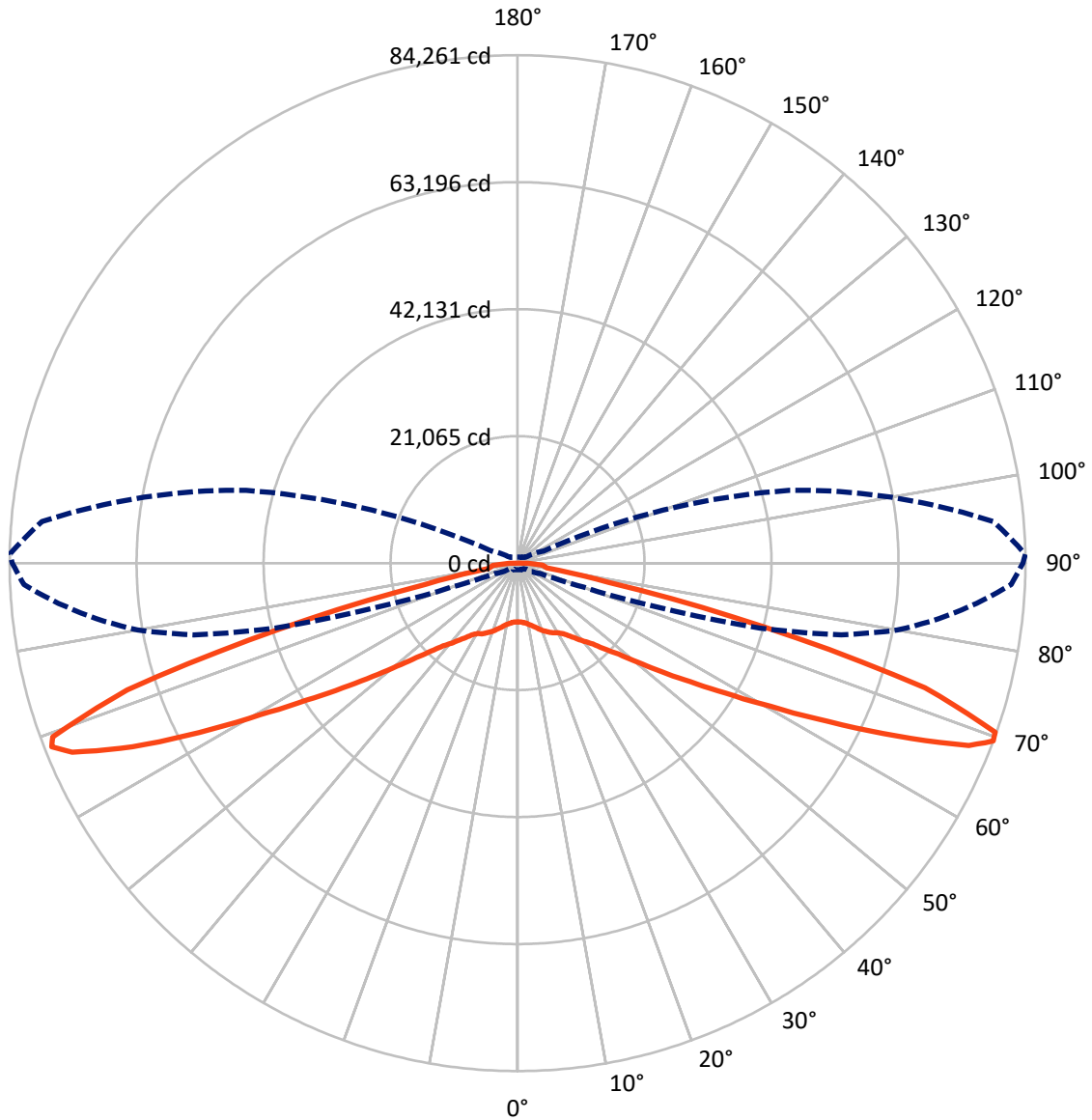
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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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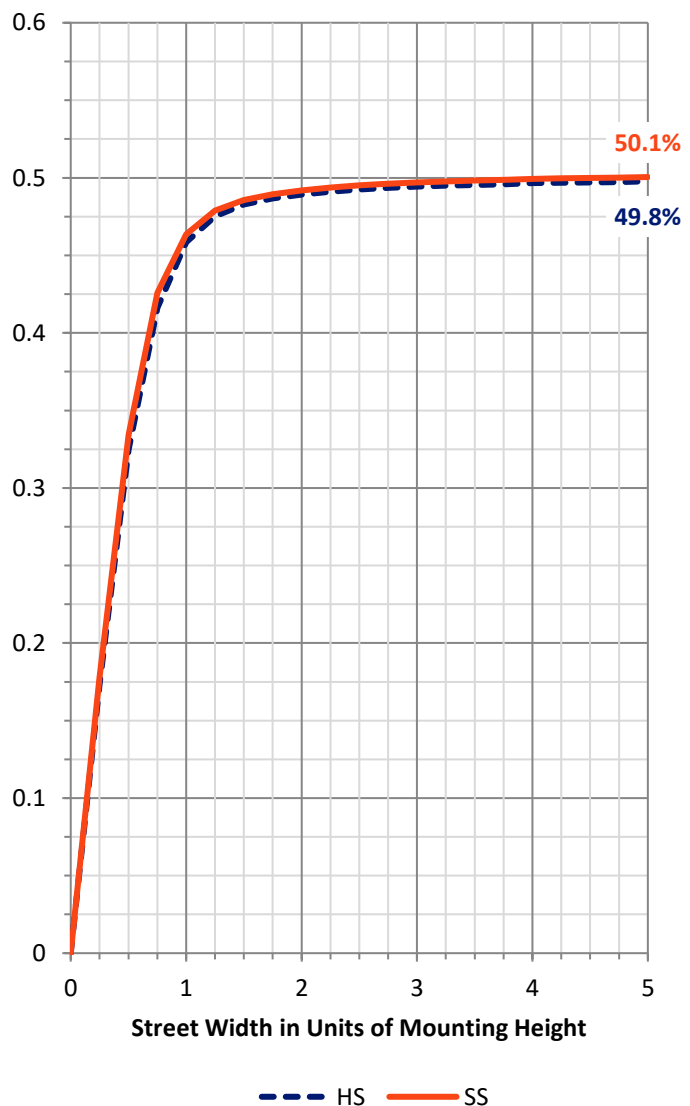
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31290.6	0.0	31290.6
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	31122.5	0.0	31122.5
	% Fixture	49.9	0.0	49.9
Total	Lumens	62413.1	0.0	62413.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.2	1.6
10°-20°	3219.4	5.2
20°-30°	5520.8	8.8
30°-40°	7626.7	12.2
40°-50°	9805.8	15.7
50°-60°	12200.4	19.5
60°-70°	14963.4	24.0
70°-80°	7381.4	11.8
80°-90°	712.1	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°	62413.1	100.0
0°-180°	62413.1	100.0



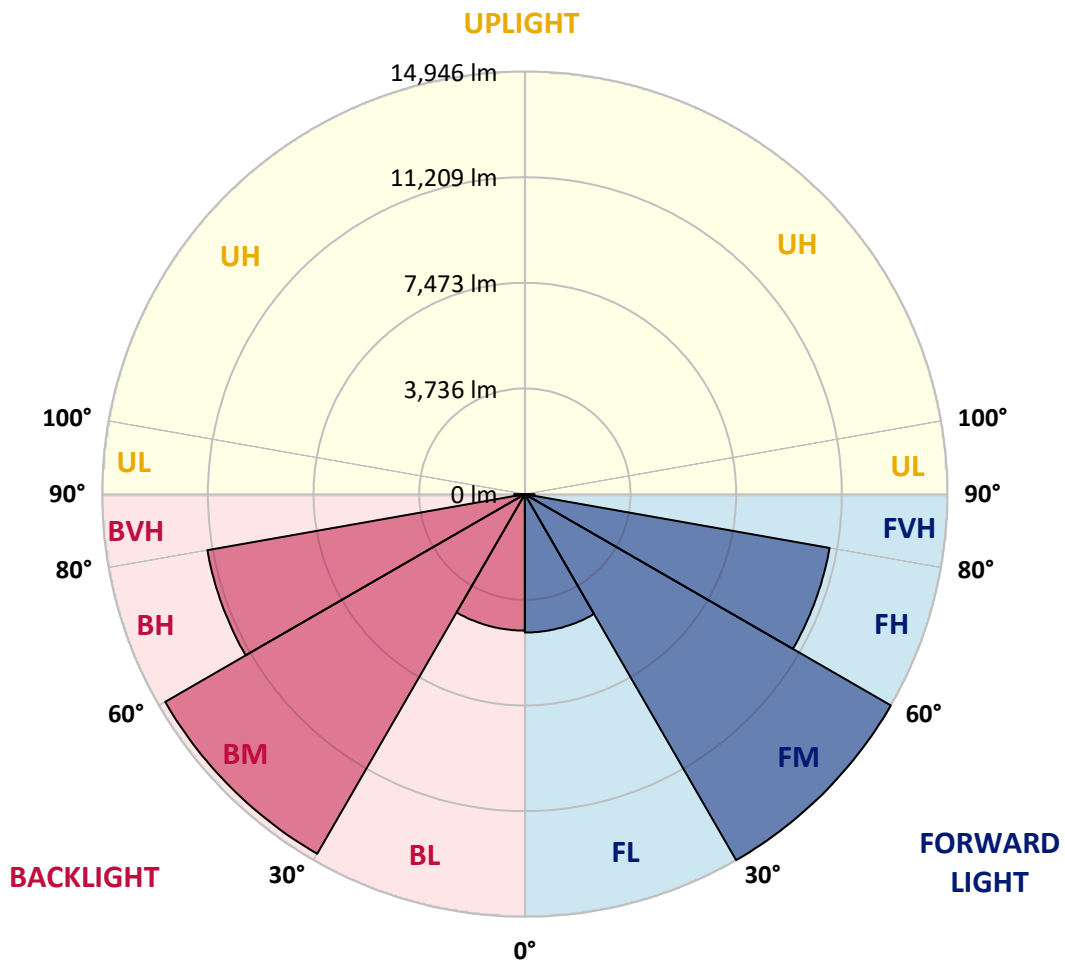
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4894.3	7.8			
FM (30°-60°)	14945.9	23.9			
FH (60°-80°)	10944.7	17.5			G4/12000
FVH (80°-90°)	337.7	0.5			G3/500
BL (0°-30°)	4829.1	7.7	B4/5000		
BM (30°-60°)	14686.9	23.5	B5		
BH (60°-80°)	11400.1	18.3	B5		G5
BVH (80°-90°)	374.4	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°	72.5°
0°	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8
2.5°	9877.4	9964.0	9890.7	9924.0	9964.0	9944.0	9930.7	9837.4	9870.8	9830.8	9837.4
5°	10223.8	10283.7	10237.1	10230.4	10190.5	10183.8	10143.8	9997.3	10063.9	9970.7	10010.6
7.5°	10523.5	10583.4	10523.5	10543.5	10556.8	10516.8	10483.5	10323.7	10337.0	10277.0	10230.4
10°	10743.3	10836.5	10769.9	10903.1	10903.1	10956.4	10909.8	10676.7	10683.3	10610.1	10636.7
12.5°	10889.8	11003.0	10976.4	11196.2	11309.4	11336.0	11389.3	11189.5	11176.2	11036.3	11029.7
15°	10783.2	10803.2	10943.1	11282.8	11675.7	11862.2	11955.5	11722.3	11735.7	11575.8	11582.5
17.5°	10443.5	10510.2	10643.4	11236.1	11735.7	12288.5	12475.0	12341.8	12315.1	12135.3	12088.7
20°	10070.6	10083.9	10303.7	10983.0	11755.7	12548.2	13101.1	12994.5	12987.8	12874.6	12748.1
22.5°	9604.3	9611.0	9917.4	10670.0	11695.7	12668.1	13660.5	13800.4	13707.2	13600.6	13440.7
25°	9024.9	9098.1	9457.8	10303.7	11489.2	12794.7	13986.9	14446.5	14413.2	14313.3	14153.4
27.5°	8478.7	8532.0	8925.0	9784.2	11049.6	12608.2	14459.8	15265.7	15179.1	15019.3	14952.7
30°	7985.9	8072.4	8478.7	9251.3	10503.5	12375.1	14772.8	15938.4	16038.3	15858.5	15685.3
32.5°	7453.0	7559.6	7985.9	8785.1	9997.3	12155.3	15039.2	16731.0	16977.4	16771.0	16757.6
35°	6920.2	7000.1	7426.4	8285.6	9631.0	11669.1	15092.5	17756.7	18063.1	17949.8	17863.3
37.5°	6454.0	6527.2	6946.8	7766.1	9138.1	11309.4	14972.6	18609.2	19162.0	19468.4	19381.8
40°	5934.4	6027.7	6440.6	7266.5	8485.4	10776.6	14826.1	19561.7	20354.3	20760.5	20853.8
42.5°	5355.0	5481.5	5881.2	6733.7	7979.2	10117.2	14386.5	20201.1	21433.2	22152.6	22772.0
45°	4742.2	4835.5	5268.4	6054.3	7379.8	9351.2	13767.1	20980.3	22592.2	23924.2	24910.0
47.5°	4002.9	4062.9	4502.4	5328.3	6540.5	8558.6	12981.2	21579.8	23890.9	25562.7	26841.5
50°	3197.0	3256.9	3610.0	4442.5	5621.4	7572.9	11775.6	21832.9	24803.4	27147.9	29245.9
52.5°	2497.7	2544.3	2824.0	3450.1	4569.1	6447.3	10363.6	21772.9	25382.9	28793.0	31630.4
55°	1944.8	1984.8	2184.6	2657.5	3503.4	5115.2	8885.0	20674.0	25562.7	29945.3	34034.8
57.5°	1671.8	1691.7	1785.0	2058.1	2684.2	3876.4	7006.8	18742.4	24676.9	30724.5	36139.5
60°	1472.0	1478.6	1551.9	1738.4	2078.1	2884.0	5121.9	15658.7	22472.3	30231.7	37817.9
62.5°	1372.0	1378.7	1418.7	1545.2	1718.4	2178.0	3629.9	12028.7	18562.6	28200.2	38537.2
65°	1285.5	1292.1	1325.4	1405.3	1478.6	1745.0	2670.8	7932.6	13374.1	22978.5	36392.6
67.5°	1172.2	1185.6	1218.9	1285.5	1345.4	1452.0	2031.4	5115.2	8418.8	15871.8	30185.0
69°	1099.0	1112.3	1145.6	1198.9	1252.2	1352.1	1758.4	4082.8	6354.0	11669.1	23917.6
70°	1045.7	1059.0	1099.0	1152.3	1198.9	1292.1	1618.5	3623.3	5428.2	9497.8	19794.8
72.5°	912.5	925.8	952.4	1005.7	1059.0	1125.6	1305.4	2590.9	3689.9	5834.5	11149.6
75°	779.3	785.9	805.9	859.2	912.5	965.8	1099.0	1831.6	2451.0	3583.3	6234.2
77.5°	606.1	612.8	639.4	699.3	732.6	805.9	932.5	1272.1	1605.2	2084.7	3190.3
80°	439.6	459.6	492.9	546.2	566.1	606.1	719.3	912.5	1059.0	1278.8	1718.4
82.5°	299.7	313.0	346.3	393.0	406.3	406.3	512.9	672.7	752.6	832.6	992.4
85°	173.2	179.8	173.2	199.8	233.1	239.8	333.0	406.3	466.2	539.5	599.4
87.5°	53.3	53.3	53.3	66.6	79.9	86.6	146.5	186.5	233.1	279.7	326.4
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°	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8
2.5°	9810.8	9890.7	9797.5	9790.8	9784.2	9737.5	9770.8	9764.2	9837.4	9817.5	9904.1
5°	9950.7	9950.7	9897.4	9937.4	9924.0	9770.8	9910.7	9910.7	9984.0	9970.7	10083.9
7.5°	10150.5	10163.8	10137.2	10117.2	10090.5	9977.3	10063.9	10050.6	10110.5	10110.5	10277.0
10°	10536.8	10523.5	10403.6	10403.6	10376.9	10257.1	10310.3	10350.3	10463.5	10490.2	10650.0
12.5°	10956.4	10869.8	10883.1	10836.5	10749.9	10543.5	10623.4	10630.0	10743.3	10876.5	11176.2
15°	11416.0	11322.7	11282.8	11242.8	11156.2	10963.1	11076.3	11009.7	11089.6	11222.8	11569.2
17.5°	12035.4	11915.5	11775.6	11669.1	11542.5	11389.3	11442.6	11495.9	11549.2	11822.3	12128.6
20°	12721.4	12528.3	12368.4	12195.2	12088.7	11895.5	11962.1	11968.8	12028.7	12381.7	12734.7
22.5°	13267.6	13101.1	12921.2	12794.7	12574.9	12381.7	12308.5	12321.8	12428.4	12854.6	13360.8
25°	13980.2	13680.5	13500.7	13294.2	13101.1	12768.0	12734.7	12748.1	12921.2	13520.7	14013.5
27.5°	14599.7	14353.2	14053.5	13740.5	13460.7	13194.3	13154.3	13107.7	13314.2	14106.8	14746.2
30°	15405.6	15039.2	14559.7	14260.0	13793.7	13420.8	13367.5	13414.1	13534.0	14639.6	15552.1
32.5°	16271.4	15885.1	15378.9	14992.6	14426.5	13993.6	13933.6	13980.2	14200.0	15618.7	16238.1
35°	17543.6	17124.0	16511.2	15918.4	15378.9	14906.0	14872.7	14799.5	15092.5	16771.0	17250.5
37.5°	19068.8	18509.3	17929.9	17270.5	16697.7	16031.6	15838.5	15898.4	16138.2	18176.3	18396.1
40°	20787.2	20254.4	19528.4	18775.7	18076.4	17370.4	17090.7	17050.7	17470.3	19968.0	19388.5
42.5°	22772.0	22405.7	21346.7	20454.2	19535.0	18649.2	18316.2	18336.2	18722.5	21906.1	20227.7
45°	25089.8	24816.7	23877.6	22758.7	21679.7	20554.1	20334.3	20347.6	20867.1	24217.3	21253.4
47.5°	27827.3	28000.4	27114.6	25935.7	24603.6	23244.9	22712.1	22578.8	23158.3	26948.1	22179.2
50°	30598.0	31690.3	31024.3	29898.7	28326.8	26721.6	26035.6	25795.8	26628.4	29925.3	22778.7
52.5°	33841.6	35600.0	35806.4	34940.6	33175.6	30931.0	30171.7	29925.3	30984.3	33402.0	22858.6
55°	37205.1	39889.3	40895.0	41014.9	38910.2	36445.8	35013.9	34727.5	36385.9	37198.5	22192.5
57.5°	40602.0	44658.2	46716.2	47935.1	46170.1	42966.4	40928.3	40621.9	43559.2	40708.5	20507.5
60°	44092.0	49593.5	52897.1	55974.2	54955.2	51398.5	48248.1	48261.4	52284.3	44611.5	17370.4
62.5°	46643.0	53563.1	58824.9	63786.9	64706.0	62228.4	58238.8	57832.5	62088.5	48094.9	13494.0
65°	48001.7	57313.0	63773.6	69661.4	72865.1	72745.2	69494.9	69135.2	72265.6	50059.8	9064.8
67.5°	45970.3	57452.8	65551.9	71413.1	77287.6	80531.2	80118.3	80737.7	78899.4	49726.7	5934.4
69°	41641.0	54981.8	63966.7	70520.6	76455.0	81936.6	83808.1	84261.0	79199.1	46603.0	4728.9
70°	36885.4	51911.4	61322.5	67649.9	73098.2	79911.8	83921.4	84061.2	76548.3	42899.8	4022.9
72.5°	23018.4	38910.2	48168.2	54215.9	57592.7	64046.7	70800.3	70687.1	60556.6	28779.7	2704.1
75°	12088.7	22419.0	29965.3	33035.7	34927.3	38244.2	42813.2	42240.4	36399.2	15119.2	1911.5
77.5°	5381.6	9524.4	12142.0	13880.3	14366.5	15332.3	15785.2	15412.2	14633.0	6587.2	1372.0
80°	2610.9	3943.0	5128.5	5421.6	5075.2	4835.5	4948.7	4895.4	5355.0	3163.7	992.4
82.5°	1298.8	1811.6	2044.8	2451.0	3610.0	4435.8	4562.4	4509.1	4042.9	1671.8	712.7
85°	692.7	832.6	959.1	1758.4	3230.3	4049.5	4169.4	4149.4	3736.5	905.8	426.3
87.5°	386.3	479.6	692.7	1405.3	1951.5	2064.7	2178.0	2111.4	2171.3	439.6	186.5
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°	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8	9790.8
2.5°	9850.8	9904.1	9930.7	9830.8	9890.7	9837.4	9850.8
5°	10017.3	10143.8	10123.8	10123.8	10137.2	10057.2	10090.5
7.5°	10350.3	10396.9	10503.5	10463.5	10423.6	10343.6	10357.0
10°	10803.2	10803.2	10869.8	10803.2	10676.7	10623.4	10610.1
12.5°	11242.8	11176.2	11216.2	11023.0	10876.5	10769.9	10823.2
15°	11635.8	11622.4	11475.9	11229.5	10869.8	10676.7	10690.0
17.5°	12221.9	12102.0	11715.7	11076.3	10630.0	10443.5	10350.3
20°	12801.3	12468.3	11689.0	10829.9	10237.1	9930.7	9937.4
22.5°	13307.5	12608.2	11595.8	10516.8	9877.4	9464.5	9457.8
25°	13793.7	12528.3	11409.3	10230.4	9477.8	9078.2	9024.9
27.5°	14173.4	12455.0	10956.4	9770.8	8931.6	8605.3	8572.0
30°	14413.2	12295.1	10550.1	9231.3	8425.4	8105.7	8092.4
32.5°	14686.2	12048.7	10017.3	8751.8	7979.2	7632.8	7612.9
35°	14939.3	11675.7	9584.4	8298.9	7513.0	7106.7	7046.7
37.5°	14992.6	11262.8	9044.9	7759.4	6933.5	6540.5	6533.9
40°	14999.3	10763.2	8472.1	7219.9	6367.4	5967.7	5941.1
42.5°	14732.9	10190.5	7899.3	6580.5	5781.2	5308.4	5275.1
45°	14120.1	9504.4	7166.6	5874.5	5135.2	4695.6	4642.3
47.5°	13300.9	8645.2	6427.3	5155.2	4402.5	4002.9	3969.6
50°	12195.2	7679.5	5534.8	4375.9	3663.2	3336.9	3256.9
52.5°	10823.2	6573.8	4602.4	3563.3	2983.9	2697.5	2650.8
55°	9184.7	5381.6	3676.6	2844.0	2317.8	2098.0	2058.1
57.5°	7359.8	4142.8	2830.7	2197.9	1858.3	1705.1	1658.4
60°	5501.5	3123.7	2171.3	1745.0	1518.6	1412.0	1392.0
62.5°	3956.3	2351.1	1705.1	1458.6	1332.1	1278.8	1265.5
65°	2910.6	1811.6	1418.7	1318.8	1225.5	1178.9	1158.9
67.5°	2164.6	1452.0	1258.8	1198.9	1132.3	1085.6	1072.3
69°	1825.0	1312.1	1178.9	1119.0	1059.0	1019.0	999.1
70°	1651.8	1238.8	1138.9	1079.0	1012.4	979.1	959.1
72.5°	1298.8	1072.3	1012.4	945.8	899.2	859.2	852.5
75°	1072.3	919.1	872.5	819.2	772.6	732.6	732.6
77.5°	899.2	759.3	719.3	666.0	619.4	579.5	572.8
80°	699.3	579.5	552.8	532.8	479.6	419.6	412.9
82.5°	499.5	393.0	386.3	373.0	326.4	293.1	279.7
85°	313.0	226.5	206.5	179.8	159.9	159.9	159.9
87.5°	119.9	66.6	66.6	53.3	40.0	40.0	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)