

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: P628141

Luminaire Tested: **EPH-VN-07-E-750-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628141
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-750-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58610.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

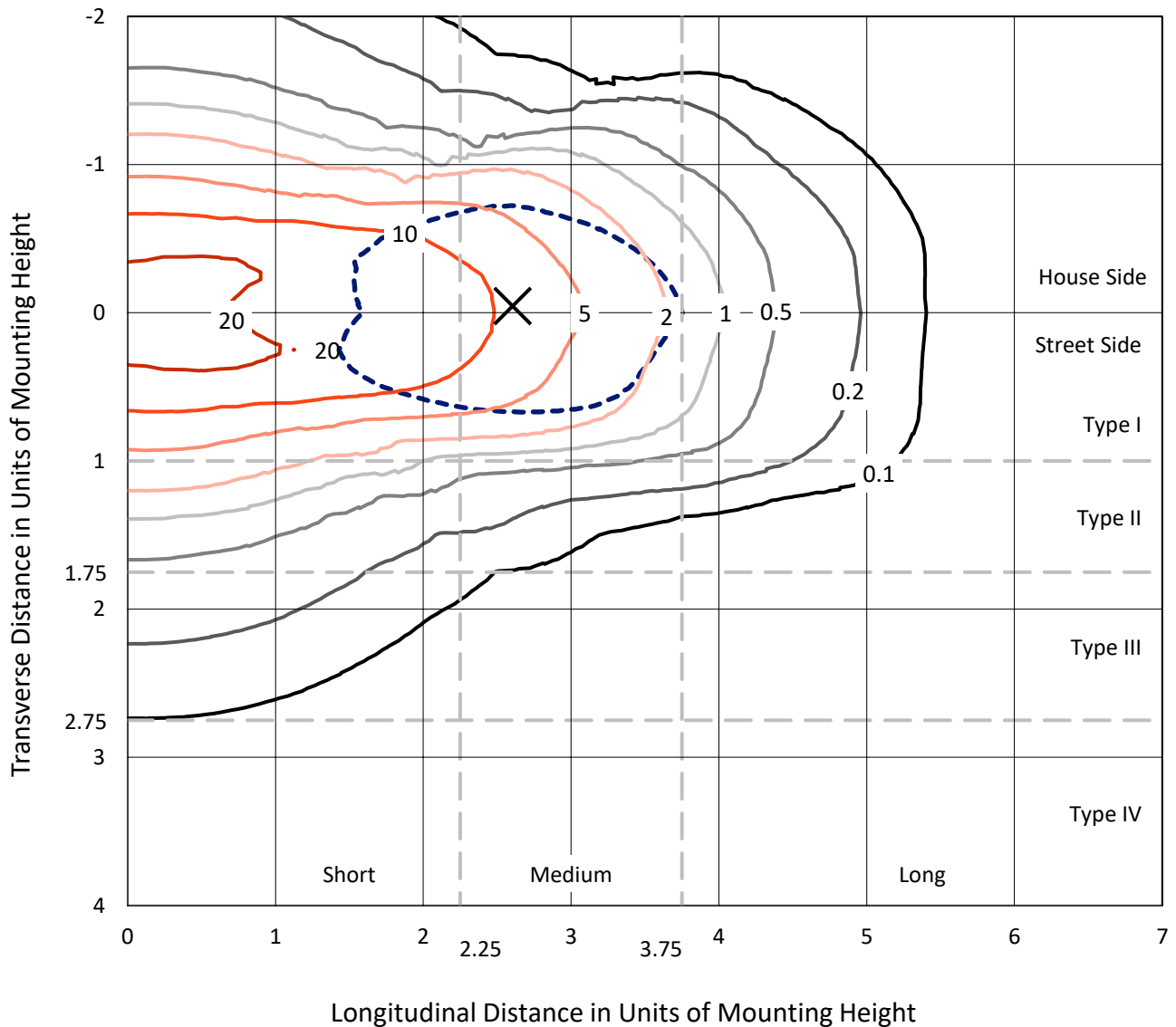
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

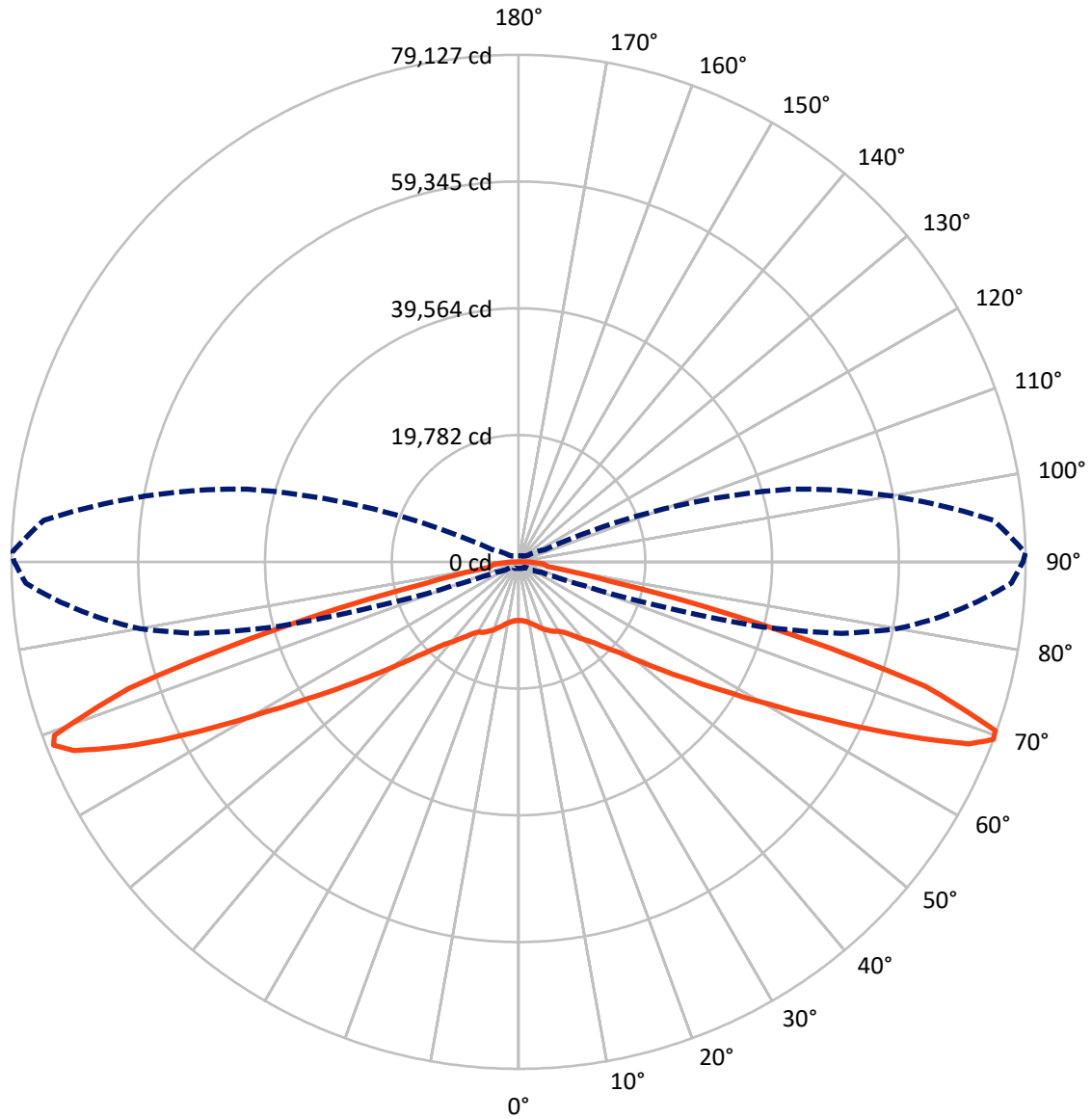
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25 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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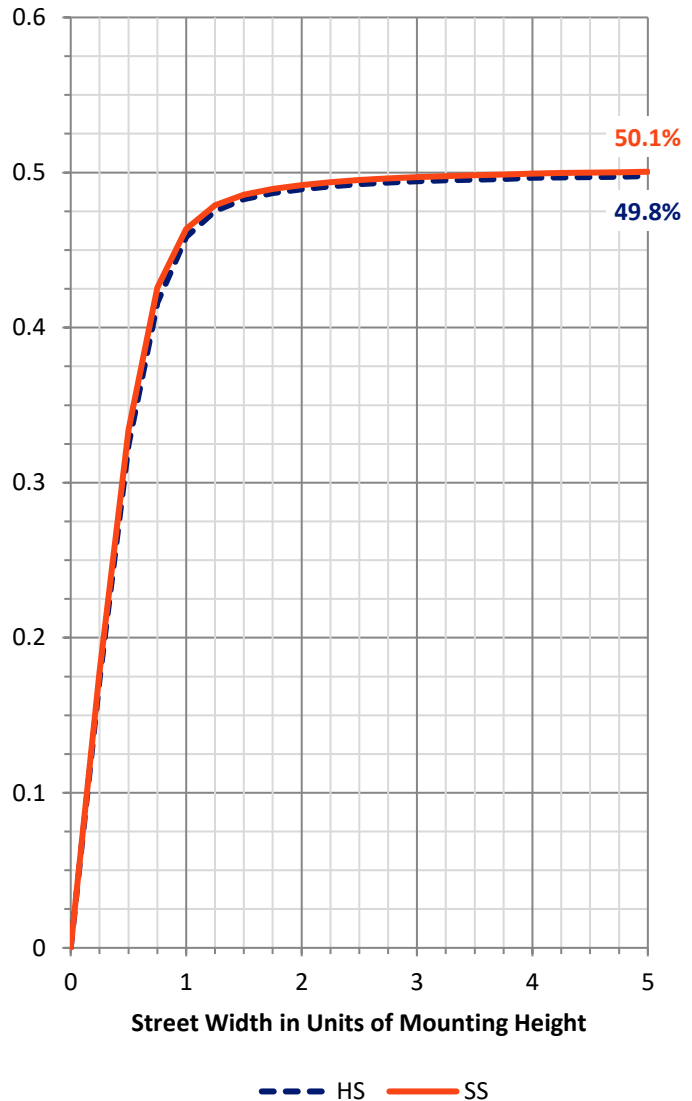
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29384.1	0.0	29384.1
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	29226.3	0.0	29226.3
	% Fixture	49.9	0.0	49.9
Total	Lumens	58610.5	0.0	58610.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.3	1.6
10°-20°	3023.2	5.2
20°-30°	5184.5	8.8
30°-40°	7162.0	12.2
40°-50°	9208.3	15.7
50°-60°	11457.0	19.5
60°-70°	14051.8	24.0
70°-80°	6931.6	11.8
80°-90°	668.7	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°	58610.5	100.0
0°-180°	58610.5	100.0

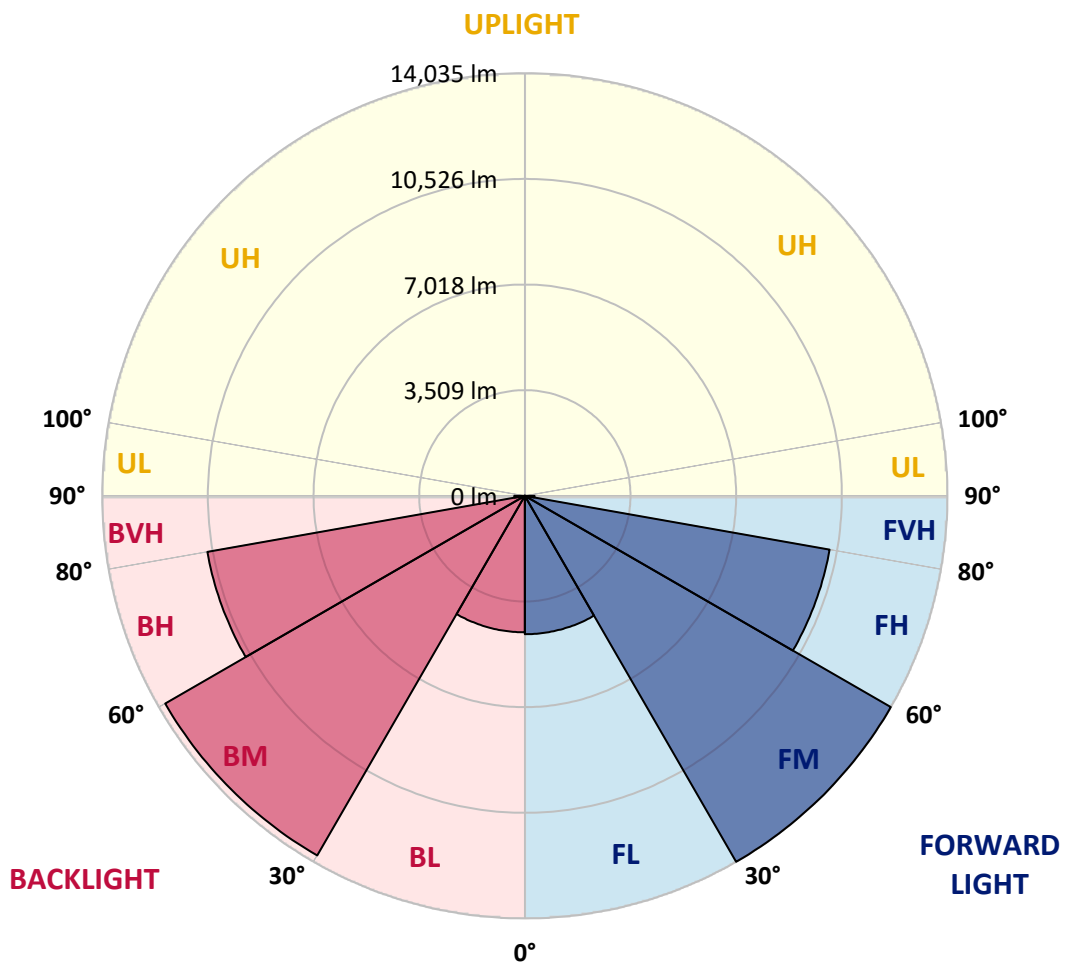


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4596.1	7.8			
FM (30°-60°)	14035.3	23.9			
FH (60°-80°)	10277.9	17.5			G4/12000
FVH (80°-90°)	317.1	0.5			G3/500
BL (0°-30°)	4534.9	7.7	B4/5000		
BM (30°-60°)	13792.1	23.5	B5		
BH (60°-80°)	10705.5	18.3	B5		G5
BVH (80°-90°)	351.6	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°	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3
2.5°	9275.6	9356.9	9288.1	9319.4	9356.9	9338.2	9325.6	9238.1	9269.4	9231.8
5°	9600.9	9657.1	9613.4	9607.1	9569.6	9563.3	9525.8	9388.2	9450.7	9363.2
7.5°	9882.3	9938.6	9882.3	9901.1	9913.6	9876.1	9844.8	9694.7	9707.2	9650.9
10°	10088.7	10176.3	10113.7	10238.8	10238.8	10288.9	10245.1	10026.2	10032.4	9963.6
12.5°	10226.3	10332.6	10307.6	10514.0	10620.4	10645.4	10695.4	10507.8	10495.3	10363.9
15°	10126.2	10145.0	10276.4	10595.3	10964.4	11139.5	11227.1	11008.1	11020.7	10870.5
17.5°	9807.3	9869.8	9994.9	10551.6	11020.7	11539.8	11714.9	11589.8	11564.8	11395.9
20°	9457.0	9469.5	9675.9	10313.9	11039.4	11783.7	12302.9	12202.8	12196.5	12090.2
22.5°	9019.2	9025.4	9313.1	10019.9	10983.1	11896.3	12828.2	12959.6	12872.0	12771.9
25°	8475.0	8543.8	8881.6	9675.9	10789.2	12015.1	13134.7	13566.3	13535.0	13441.2
27.5°	7962.1	8012.2	8381.2	9188.0	10376.4	11840.0	13578.8	14335.6	14254.3	14104.2
30°	7499.3	7580.6	7962.1	8687.7	9863.5	11621.1	13872.8	14967.3	15061.1	14892.3
32.5°	6998.9	7099.0	7499.3	8249.9	9388.2	11414.7	14122.9	15711.6	15943.0	15749.2
35°	6498.6	6573.6	6973.9	7780.8	9044.2	10958.1	14173.0	16674.8	16962.5	16856.2
37.5°	6060.7	6129.5	6523.6	7292.9	8581.3	10620.4	14060.4	17475.4	17994.6	18282.3
40°	5572.9	5660.4	6048.2	6823.8	7968.4	10120.0	13922.8	18369.8	19114.1	19495.7
42.5°	5028.7	5147.6	5522.8	6323.4	7493.0	9500.8	13510.0	18970.3	20127.4	20802.9
45°	4453.3	4540.9	4947.4	5685.5	6930.1	8781.5	12928.3	19702.1	21215.7	22466.6
47.5°	3759.0	3815.3	4228.1	5003.7	6142.0	8037.2	12190.3	20265.0	22435.3	24005.3
50°	3002.2	3058.5	3390.0	4171.8	5278.9	7111.5	11058.2	20502.7	23292.2	25493.9
52.5°	2345.5	2389.3	2652.0	3239.9	4290.7	6054.5	9732.2	20446.4	23836.4	27038.8
55°	1826.4	1863.9	2051.5	2495.6	3289.9	4803.6	8343.7	19414.4	24005.3	28120.8
57.5°	1569.9	1588.7	1676.2	1932.7	2520.6	3640.2	6579.9	17600.5	23173.4	28852.6
60°	1382.3	1388.5	1457.3	1632.5	1951.4	2708.3	4809.8	14704.6	21103.1	28389.8
62.5°	1288.5	1294.7	1332.2	1451.1	1613.7	2045.3	3408.8	11295.9	17431.6	26482.1
65°	1207.1	1213.4	1244.7	1319.7	1388.5	1638.7	2508.1	7449.3	12559.3	21578.5
67.5°	1100.8	1113.3	1144.6	1207.1	1263.4	1363.5	1907.7	4803.6	7905.8	14904.8
69°	1032.0	1044.5	1075.8	1125.8	1175.9	1269.7	1651.2	3834.1	5966.9	10958.1
70°	982.0	994.5	1032.0	1082.1	1125.8	1213.4	1519.9	3402.5	5097.5	8919.1
72.5°	856.9	869.4	894.4	944.4	994.5	1057.0	1225.9	2433.1	3465.1	5479.1
75°	731.8	738.0	756.8	806.8	856.9	906.9	1032.0	1720.0	2301.7	3365.0
77.5°	569.2	575.4	600.4	656.7	688.0	756.8	875.6	1194.6	1507.4	1957.7
80°	412.8	431.6	462.8	512.9	531.6	569.2	675.5	856.9	994.5	1200.9
82.5°	281.5	294.0	325.2	369.0	381.5	381.5	481.6	631.7	706.8	781.8
85°	162.6	168.9	162.6	187.6	218.9	225.2	312.7	381.5	437.8	506.6
87.5°	50.0	50.0	50.0	62.5	75.1	81.3	137.6	175.1	218.9	262.7
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°
9194.3	0°	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3
9238.1	2.5°	9213.1	9288.1	9200.6	9194.3	9188.0	9144.3	9175.5	9169.3	9238.1
9400.7	5°	9344.4	9344.4	9294.4	9331.9	9319.4	9175.5	9306.9	9306.9	9375.7
9607.1	7.5°	9532.1	9544.6	9519.5	9500.8	9475.8	9369.4	9450.7	9438.2	9494.5
9988.6	10°	9894.8	9882.3	9769.7	9769.7	9744.7	9632.1	9682.2	9719.7	9826.0
10357.7	12.5°	10288.9	10207.6	10220.1	10176.3	10095.0	9901.1	9976.1	9982.4	10088.7
10876.8	15°	10720.4	10632.9	10595.3	10557.8	10476.5	10295.1	10401.4	10338.9	10414.0
11352.1	17.5°	11302.1	11189.5	11058.2	10958.1	10839.3	10695.4	10745.5	10795.5	10845.5
11971.4	20°	11946.3	11765.0	11614.8	11452.2	11352.1	11170.8	11233.3	11239.6	11295.9
12621.8	22.5°	12459.2	12302.9	12134.0	12015.1	11808.7	11627.4	11558.6	11571.1	11671.1
13291.1	25°	13128.5	12847.0	12678.1	12484.2	12302.9	11990.1	11958.8	11971.4	12134.0
14041.6	27.5°	13710.1	13478.7	13197.3	12903.3	12640.6	12390.4	12352.9	12309.1	12503.0
14729.6	30°	14467.0	14122.9	13672.6	13391.2	12953.3	12603.1	12553.0	12596.8	12709.4
15736.6	32.5°	15280.1	14917.3	14441.9	14079.2	13547.5	13141.0	13084.7	13128.5	13334.9
16774.9	35°	16474.7	16080.6	15505.2	14948.6	14441.9	13997.9	13966.6	13897.8	14173.0
18201.0	37.5°	17907.0	17381.6	16837.5	16218.2	15680.4	15054.9	14873.5	14929.8	15155.0
19583.2	40°	19520.7	19020.3	18338.6	17631.8	16975.1	16312.1	16049.4	16011.8	16405.9
21384.6	42.5°	21384.6	21040.6	20046.1	19208.0	18344.8	17513.0	17200.2	17219.0	17581.8
23392.3	45°	23561.2	23304.7	22422.8	21372.1	20358.8	19301.8	19095.4	19107.9	19595.7
25206.1	47.5°	26131.8	26294.5	25462.6	24355.5	23104.6	21828.6	21328.3	21203.2	21747.3
27464.1	50°	28733.8	29759.5	29134.1	28077.0	26600.9	25093.6	24449.3	24224.2	25006.0
29703.2	52.5°	31779.8	33431.0	33624.9	32811.8	31154.3	29046.5	28333.5	28102.0	29096.5
31961.1	55°	34938.3	37459.0	38403.4	38516.0	36539.5	34225.3	32880.6	32611.6	34169.0
33937.6	57.5°	38128.2	41937.3	43870.0	45014.6	43357.1	40348.6	38434.7	38147.0	40905.3
35513.8	60°	41405.6	46572.0	49674.3	52563.9	51606.9	48267.0	45308.5	45321.0	49098.8
36189.3	62.5°	43801.2	50299.7	55240.9	59900.6	60763.7	58437.0	54690.5	54308.9	58305.6
34175.3	65°	45077.1	53821.1	59888.1	65417.1	68425.6	68313.0	65260.8	64923.0	67862.7
28346.0	67.5°	43169.4	53952.4	61558.0	67062.1	72578.7	75624.7	75236.9	75818.6	74092.3
22460.4	69°	39103.9	51632.0	60069.4	66224.0	71796.9	76944.4	78702.0	79127.3	74373.8
18588.8	70°	34638.1	48748.6	57586.4	63528.3	68644.5	75043.0	78808.3	78939.7	71884.4
10470.2	72.5°	21616.0	36539.5	45233.5	50912.7	54083.8	60144.5	66486.7	66380.4	56867.1
5854.3	75°	11352.1	21053.1	28139.6	31023.0	32799.3	35914.1	40204.7	39666.8	34181.5
2996.0	77.5°	5053.7	8944.1	11402.2	13034.6	13491.2	14398.2	14823.5	14473.2	13741.4
1613.7	80°	2451.8	3702.7	4816.1	5091.3	4766.0	4540.9	4647.2	4597.2	5028.7
931.9	82.5°	1219.7	1701.3	1920.2	2301.7	3390.0	4165.6	4284.4	4234.4	3796.6
562.9	85°	650.5	781.8	900.7	1651.2	3033.5	3802.8	3915.4	3896.6	3508.8
306.5	87.5°	362.8	450.3	650.5	1319.7	1832.6	1938.9	2045.3	1982.7	2039.0
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°
9194.3	9194.3	0°	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3	9194.3
9219.3	9300.6	2.5°	9250.6	9300.6	9325.6	9231.8	9288.1	9238.1	9250.6
9363.2	9469.5	5°	9407.0	9525.8	9507.0	9507.0	9519.5	9444.5	9475.8
9494.5	9650.9	7.5°	9719.7	9763.5	9863.5	9826.0	9788.5	9713.4	9725.9
9851.0	10001.1	10°	10145.0	10145.0	10207.6	10145.0	10026.2	9976.1	9963.6
10213.8	10495.3	12.5°	10557.8	10495.3	10532.8	10351.4	10213.8	10113.7	10163.8
10539.0	10864.3	15°	10926.8	10914.3	10776.7	10545.3	10207.6	10026.2	10038.7
11102.0	11389.7	17.5°	11477.2	11364.7	11001.9	10401.4	9982.4	9807.3	9719.7
11627.4	11958.8	20°	12021.4	11708.7	10976.9	10170.0	9613.4	9325.6	9331.9
12071.4	12546.8	22.5°	12496.7	11840.0	10889.3	9876.1	9275.6	8887.8	8881.6
12696.9	13159.7	25°	12953.3	11765.0	10714.2	9607.1	8900.3	8525.1	8475.0
13247.3	13847.7	27.5°	13309.8	11696.2	10288.9	9175.5	8387.5	8081.0	8049.7
13747.7	14604.6	30°	13535.0	11546.0	9907.3	8668.9	7912.1	7611.9	7599.4
14667.1	15248.8	32.5°	13791.5	11314.6	9407.0	8218.6	7493.0	7167.8	7149.0
15749.2	16199.5	35°	14029.1	10964.4	9000.4	7793.3	7055.2	6673.7	6617.4
17068.9	17275.3	37.5°	14079.2	10576.6	8493.8	7286.6	6511.1	6142.0	6135.8
18751.4	18207.2	40°	14085.4	10107.5	7955.9	6780.0	5979.4	5604.1	5579.1
20571.5	18995.3	42.5°	13835.2	9569.6	7418.0	6179.6	5429.0	4984.9	4953.7
22741.8	19958.5	45°	13259.8	8925.4	6730.0	5516.6	4822.3	4409.5	4359.5
25306.2	20827.9	47.5°	12490.5	8118.5	6035.7	4841.1	4134.3	3759.0	3727.8
28102.0	21390.8	50°	11452.2	7211.6	5197.6	4109.3	3440.0	3133.6	3058.5
31367.0	21465.9	52.5°	10163.8	6173.3	4321.9	3346.2	2802.1	2533.1	2489.3
34932.1	20840.4	55°	8625.1	5053.7	3452.6	2670.7	2176.6	1970.2	1932.7
38228.3	19258.0	57.5°	6911.4	3890.4	2658.2	2064.0	1745.0	1601.2	1557.4
41893.5	16312.1	60°	5166.3	2933.4	2039.0	1638.7	1426.1	1326.0	1307.2
45164.7	12671.9	62.5°	3715.2	2207.9	1601.2	1369.8	1250.9	1200.9	1188.4
47009.8	8512.5	65°	2733.3	1701.3	1332.2	1238.4	1150.9	1107.1	1088.3
46697.0	5572.9	67.5°	2032.8	1363.5	1182.1	1125.8	1063.3	1019.5	1007.0
43763.6	4440.8	69°	1713.8	1232.2	1107.1	1050.8	994.5	957.0	938.2
40286.1	3777.8	70°	1551.1	1163.4	1069.5	1013.2	950.7	919.4	900.7
27026.2	2539.4	72.5°	1219.7	1007.0	950.7	888.2	844.4	806.8	800.6
14198.0	1795.1	75°	1007.0	863.1	819.4	769.3	725.5	688.0	688.0
6185.8	1288.5	77.5°	844.4	713.0	675.5	625.5	581.7	544.2	537.9
2970.9	931.9	80°	656.7	544.2	519.1	500.4	450.3	394.0	387.8
1569.9	669.2	82.5°	469.1	369.0	362.8	350.3	306.5	275.2	262.7
850.6	400.3	85°	294.0	212.7	193.9	168.9	150.1	150.1	150.1
412.8	175.1	87.5°	112.6	62.5	62.5	50.0	37.5	37.5	37.5
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)