

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: P628128

Luminaire Tested: **EPH-VN-06-E-735-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628128
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-735-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52971 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

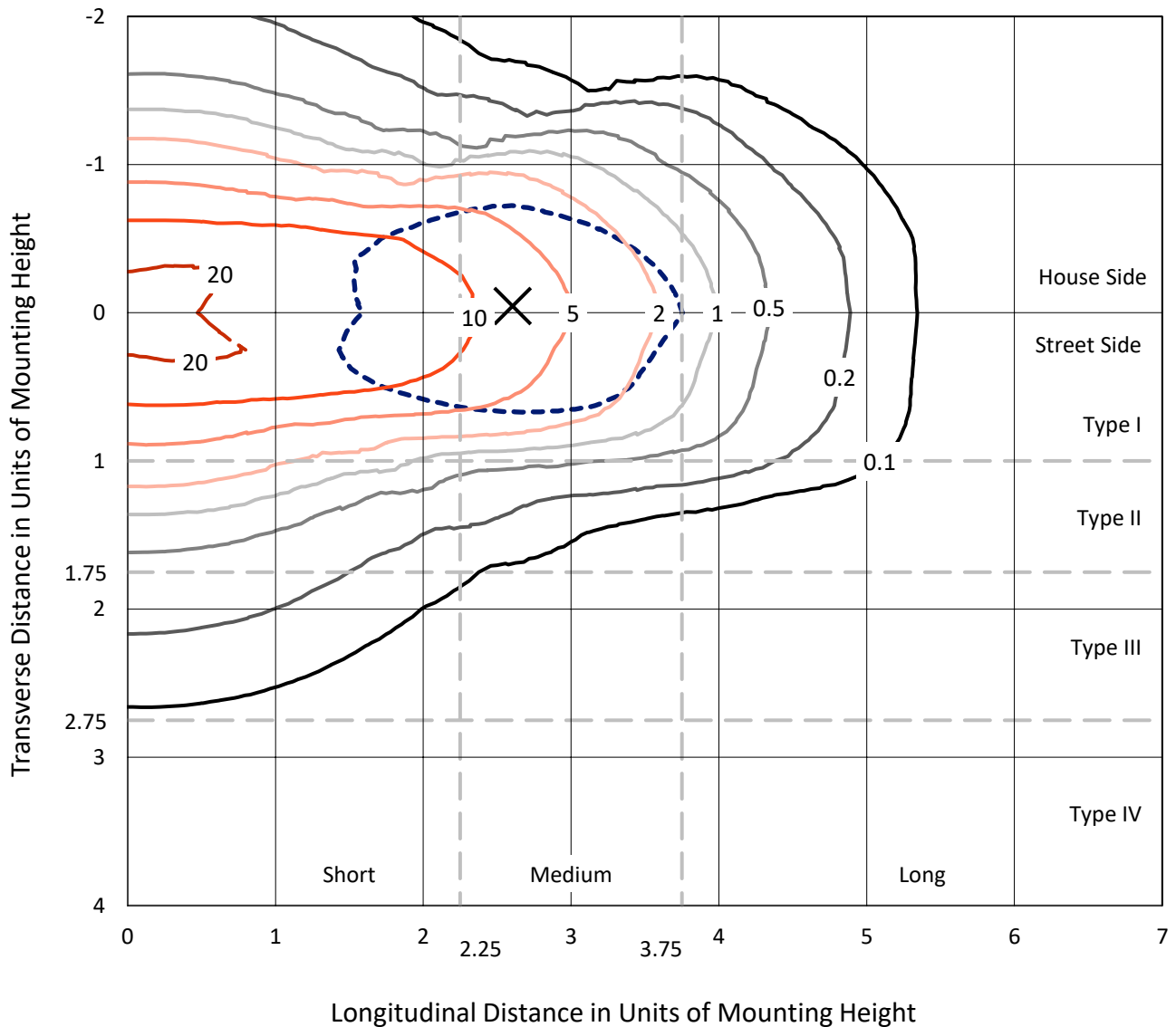
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

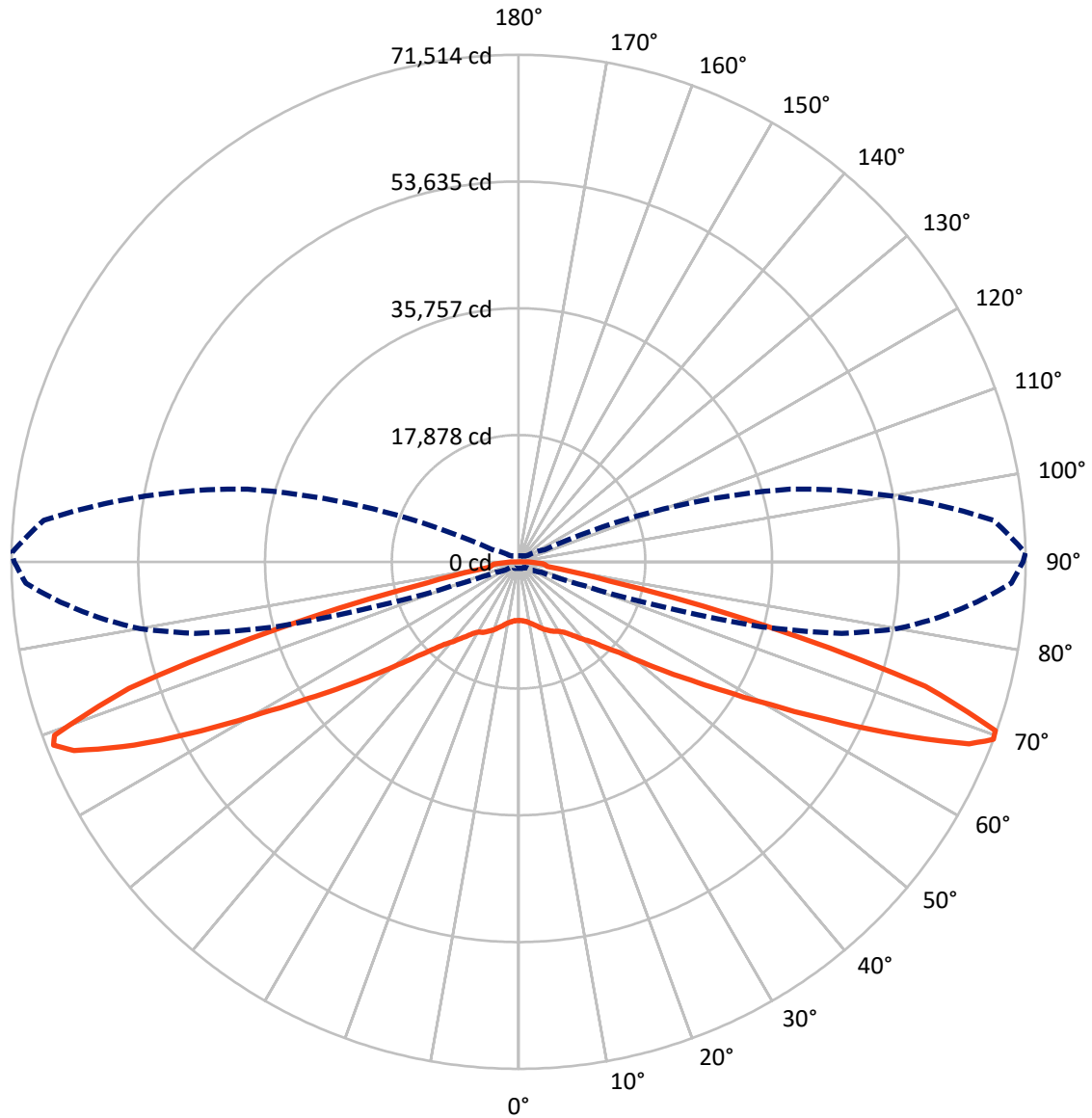
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.6 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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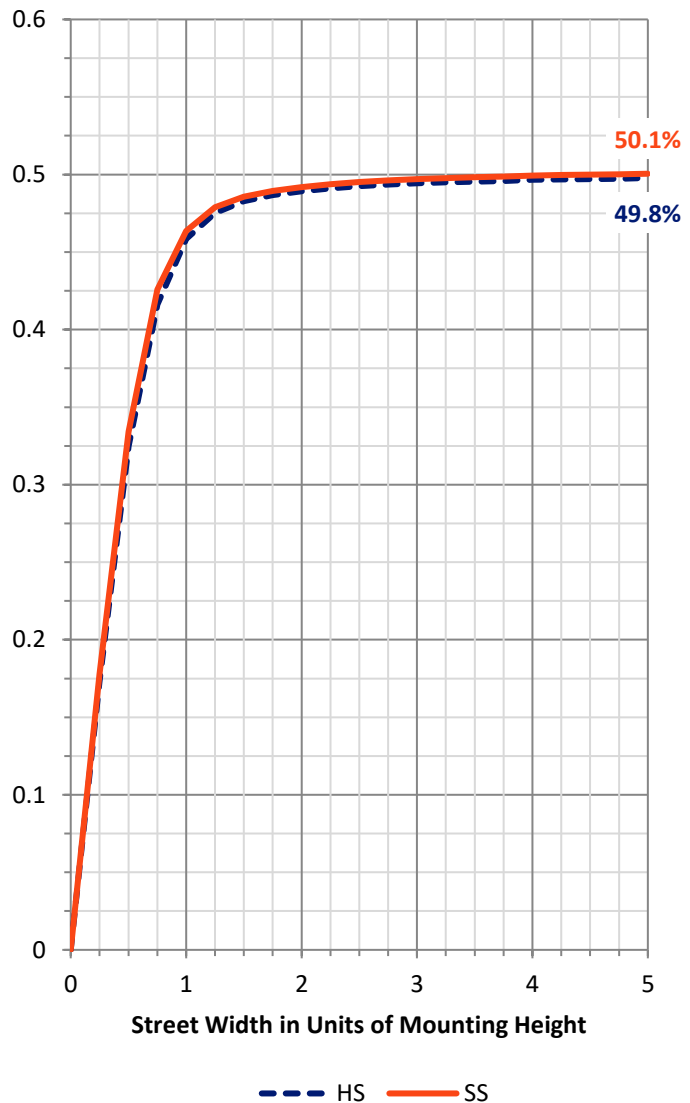
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26556.8	0.0	26556.8
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	26414.2	0.0	26414.2
	% Fixture	49.9	0.0	49.9
Total	Lumens	52971.0	0.0	52971.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.5	1.6
10°-20°	2732.3	5.2
20°-30°	4685.6	8.8
30°-40°	6472.9	12.2
40°-50°	8322.3	15.7
50°-60°	10354.6	19.5
60°-70°	12699.7	24.0
70°-80°	6264.7	11.8
80°-90°	604.3	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°	52971.0	100.0
0°-180°	52971.0	100.0

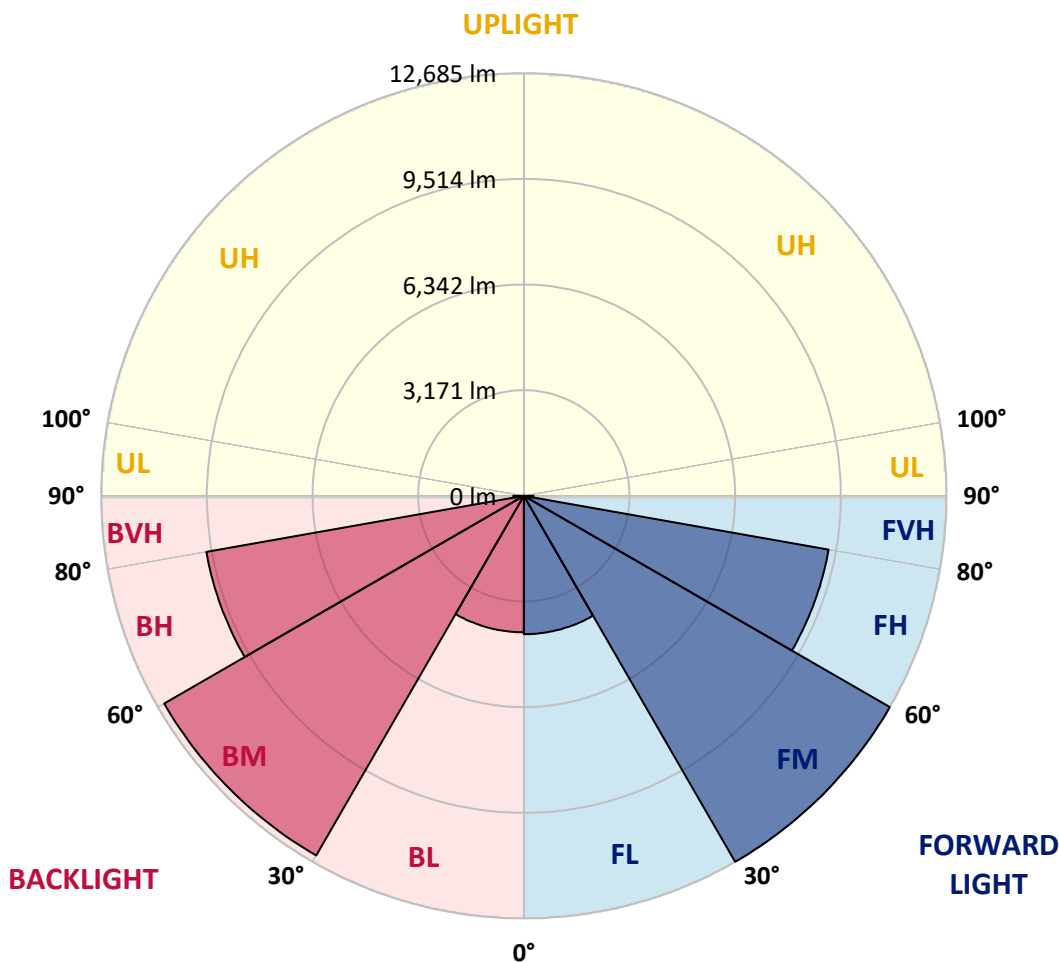


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4153.9	7.8			
FM (30°-60°)	12684.8	23.9			
FH (60°-80°)	9288.9	17.5			G4/12000
FVH (80°-90°)	286.6	0.5			G3/500
BL (0°-30°)	4098.6	7.7	B4/5000		
BM (30°-60°)	12465.0	23.5	B5		
BH (60°-80°)	9675.5	18.3	B5		G5
BVH (80°-90°)	317.8	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°	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6
2.5°	8383.1	8456.6	8394.4	8422.7	8456.6	8439.6	8428.3	8349.2	8377.5	8343.5
5°	8677.1	8727.9	8688.4	8682.7	8648.8	8643.1	8609.2	8484.9	8541.4	8462.3
7.5°	8931.4	8982.3	8931.4	8948.4	8959.7	8925.8	8897.5	8761.9	8773.2	8722.3
10°	9118.0	9197.1	9140.6	9253.7	9253.7	9298.9	9259.3	9061.5	9067.1	9004.9
12.5°	9242.3	9338.4	9315.8	9502.4	9598.5	9621.1	9666.3	9496.7	9485.4	9366.7
15°	9151.9	9168.9	9287.6	9575.9	9909.4	10067.7	10146.8	9948.9	9960.3	9824.6
17.5°	8863.6	8920.1	9033.2	9536.3	9960.3	10429.4	10587.7	10474.7	10452.0	10299.4
20°	8547.1	8558.4	8744.9	9321.5	9977.2	10649.9	11119.1	11028.6	11023.0	10926.9
22.5°	8151.4	8157.0	8417.0	9055.8	9926.3	10751.6	11593.9	11712.6	11633.5	11543.0
25°	7659.6	7721.7	8027.0	8744.9	9751.1	10859.0	11870.9	12260.9	12232.7	12147.9
27.5°	7196.0	7241.3	7574.8	8304.0	9378.0	10700.8	12272.3	12956.2	12882.8	12747.1
30°	6777.7	6851.2	7196.0	7851.8	8914.5	10502.9	12537.9	13527.2	13612.0	13459.3
32.5°	6325.5	6415.9	6777.7	7456.1	8484.9	10316.4	12764.0	14199.9	14409.0	14233.8
35°	5873.3	5941.1	6302.9	7032.1	8174.0	9903.7	12809.3	15070.4	15330.4	15234.3
37.5°	5477.6	5539.8	5895.9	6591.2	7755.7	9598.5	12707.5	15794.0	16263.1	16523.2
40°	5036.7	5115.8	5466.3	6167.2	7201.7	9146.2	12583.2	16602.3	17275.0	17619.8
42.5°	4544.9	4652.3	4991.4	5715.0	6772.1	8586.6	12210.1	17145.0	18190.7	18801.2
45°	4024.8	4103.9	4471.4	5138.4	6263.3	7936.5	11684.4	17806.4	19174.3	20304.9
47.5°	3397.3	3448.2	3821.3	4522.2	5551.1	7263.9	11017.3	18315.1	20276.6	21695.5
50°	2713.3	2764.2	3063.8	3770.4	4771.0	6427.2	9994.2	18529.9	21051.1	23040.9
52.5°	2119.8	2159.4	2396.8	2928.2	3877.8	5471.9	8795.8	18479.0	21542.9	24437.1
55°	1650.6	1684.5	1854.1	2255.5	2973.4	4341.4	7540.8	17546.3	21695.5	25415.0
57.5°	1418.9	1435.8	1515.0	1746.7	2278.1	3289.9	5946.8	15907.0	20943.7	26076.4
60°	1249.3	1254.9	1317.1	1475.4	1763.7	2447.7	4347.0	13289.8	19072.6	25658.1
62.5°	1164.5	1170.1	1204.0	1311.5	1458.4	1848.5	3080.8	10209.0	15754.4	23934.0
65°	1091.0	1096.6	1124.9	1192.7	1254.9	1481.0	2266.8	6732.5	11350.8	19502.2
67.5°	994.9	1006.2	1034.5	1091.0	1141.9	1232.3	1724.1	4341.4	7145.2	13470.6
69°	932.7	944.0	972.3	1017.5	1062.7	1147.5	1492.3	3465.2	5392.8	9903.7
70°	887.5	898.8	932.7	977.9	1017.5	1096.6	1373.6	3075.1	4607.0	8060.9
72.5°	774.4	785.7	808.4	853.6	898.8	955.3	1108.0	2198.9	3131.7	4951.9
75°	661.4	667.0	684.0	729.2	774.4	819.7	932.7	1554.5	2080.2	3041.2
77.5°	514.4	520.1	542.7	593.5	621.8	684.0	791.4	1079.7	1362.3	1769.3
80°	373.1	390.0	418.3	463.5	480.5	514.4	610.5	774.4	898.8	1085.3
82.5°	254.4	265.7	293.9	333.5	344.8	344.8	435.3	570.9	638.8	706.6
85°	147.0	152.6	147.0	169.6	197.8	203.5	282.6	344.8	395.7	457.9
87.5°	45.2	45.2	45.2	56.5	67.8	73.5	124.4	158.3	197.8	237.4
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°
8309.6	0°	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6
8349.2	2.5°	8326.6	8394.4	8315.3	8309.6	8304.0	8264.4	8292.7	8287.0	8349.2
8496.2	5°	8445.3	8445.3	8400.1	8434.0	8422.7	8292.7	8411.4	8411.4	8473.6
8682.7	7.5°	8614.9	8626.2	8603.6	8586.6	8564.0	8467.9	8541.4	8530.1	8581.0
9027.5	10°	8942.7	8931.4	8829.7	8829.7	8807.1	8705.3	8750.6	8784.5	8880.6
9361.1	12.5°	9298.9	9225.4	9236.7	9197.1	9123.6	8948.4	9016.2	9021.9	9118.0
9830.2	15°	9688.9	9609.8	9575.9	9541.9	9468.5	9304.5	9400.6	9344.1	9411.9
10259.9	17.5°	10214.6	10112.9	9994.2	9903.7	9796.3	9666.3	9711.5	9756.8	9802.0
10819.5	20°	10796.9	10632.9	10497.3	10350.3	10259.9	10095.9	10152.4	10158.1	10209.0
11407.4	22.5°	11260.4	11119.1	10966.5	10859.0	10672.5	10508.6	10446.4	10457.7	10548.1
12012.2	25°	11865.3	11610.9	11458.2	11283.0	11119.1	10836.4	10808.2	10819.5	10966.5
12690.6	27.5°	12391.0	12181.8	11927.4	11661.7	11424.3	11198.2	11164.3	11124.7	11300.0
13312.4	30°	13075.0	12764.0	12357.0	12102.7	11707.0	11390.4	11345.2	11384.8	11486.5
14222.5	32.5°	13809.8	13482.0	13052.3	12724.5	12244.0	11876.6	11825.7	11865.3	12051.8
15160.8	35°	14889.5	14533.4	14013.3	13510.2	13052.3	12651.0	12622.7	12560.5	12809.3
16449.7	37.5°	16184.0	15709.2	15217.4	14657.7	14171.6	13606.3	13442.4	13493.3	13696.8
17699.0	40°	17642.4	17190.2	16574.0	15935.3	15341.7	14742.5	14505.1	14471.2	14827.3
19327.0	42.5°	19327.0	19016.1	18117.3	17359.8	16579.7	15827.9	15545.2	15562.2	15890.1
21141.5	45°	21294.1	21062.4	20265.3	19315.7	18399.9	17444.6	17258.0	17269.3	17710.3
22780.8	47.5°	23617.4	23764.4	23012.6	22012.0	20881.5	19728.3	19276.1	19163.0	19654.8
24821.5	50°	25969.0	26896.1	26330.8	25375.5	24041.4	22679.1	22096.8	21893.3	22599.9
26845.2	52.5°	28721.9	30214.3	30389.5	29654.6	28156.7	26251.7	25607.2	25398.1	26296.9
28885.9	55°	31576.6	33854.7	34708.3	34810.0	33023.7	30932.2	29716.8	29473.8	30881.3
30672.2	57.5°	34459.5	37902.1	39648.8	40683.3	39185.3	36466.3	34736.5	34476.5	36969.4
32096.7	60°	37421.6	42090.8	44894.6	47506.2	46641.3	43622.7	40949.0	40960.3	44374.6
32707.2	62.5°	39586.6	45459.9	49925.6	54137.0	54917.1	52814.2	49428.2	49083.4	52695.5
30887.0	65°	40739.8	48642.4	54125.7	59122.8	61841.8	61740.0	58981.4	58676.2	61333.0
25618.5	67.5°	39015.7	48761.1	55635.0	60609.4	65595.2	68348.1	67997.7	68523.4	66963.2
20299.2	69°	35341.4	46664.0	54289.6	59852.0	64888.6	69540.9	71129.3	71513.7	67217.6
16800.2	70°	31305.3	44058.0	52045.4	57415.6	62039.6	67822.4	71225.4	71344.1	64967.8
9462.8	72.5°	19536.1	33023.7	40881.1	46013.9	48879.9	54357.4	60089.4	59993.3	51395.4
5291.0	75°	10259.9	19027.4	25432.0	28037.9	29643.3	32458.4	36336.3	35850.1	30892.6
2707.7	77.5°	4567.5	8083.5	10305.1	11780.5	12193.1	13012.8	13397.2	13080.6	12419.2
1458.4	80°	2215.9	3346.5	4352.7	4601.4	4307.4	4103.9	4200.0	4154.8	4544.9
842.3	82.5°	1102.3	1537.6	1735.4	2080.2	3063.8	3764.8	3872.2	3827.0	3431.3
508.8	85°	587.9	706.6	814.0	1492.3	2741.6	3436.9	3538.7	3521.7	3171.2
277.0	87.5°	327.9	407.0	587.9	1192.7	1656.3	1752.4	1848.5	1791.9	1842.8
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°
8309.6	8309.6	0°	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6	8309.6
8332.2	8405.7	2.5°	8360.5	8405.7	8428.3	8343.5	8394.4	8349.2	8360.5
8462.3	8558.4	5°	8501.8	8609.2	8592.3	8592.3	8603.6	8535.7	8564.0
8581.0	8722.3	7.5°	8784.5	8824.0	8914.5	8880.6	8846.6	8778.8	8790.1
8903.2	9038.8	10°	9168.9	9168.9	9225.4	9168.9	9061.5	9016.2	9004.9
9231.0	9485.4	12.5°	9541.9	9485.4	9519.3	9355.4	9231.0	9140.6	9185.8
9525.0	9818.9	15°	9875.5	9864.2	9739.8	9530.6	9225.4	9061.5	9072.8
10033.7	10293.8	17.5°	10372.9	10271.2	9943.3	9400.6	9021.9	8863.6	8784.5
10508.6	10808.2	20°	10864.7	10582.1	9920.7	9191.5	8688.4	8428.3	8434.0
10909.9	11339.5	22.5°	11294.3	10700.8	9841.5	8925.8	8383.1	8032.6	8027.0
11475.2	11893.5	25°	11707.0	10632.9	9683.3	8682.7	8044.0	7704.8	7659.6
11972.7	12515.3	27.5°	12029.2	10570.8	9298.9	8292.7	7580.4	7303.4	7275.2
12424.9	13199.3	30°	12232.7	10435.1	8954.1	7834.8	7150.8	6879.5	6868.2
13255.8	13781.6	32.5°	12464.4	10225.9	8501.8	7427.8	6772.1	6478.1	6461.2
14233.8	14640.8	35°	12679.3	9909.4	8134.4	7043.4	6376.4	6031.5	5980.7
15426.5	15613.1	37.5°	12724.5	9558.9	7676.5	6585.5	5884.6	5551.1	5545.4
16947.1	16455.3	40°	12730.1	9134.9	7190.4	6127.6	5404.1	5064.9	5042.3
18592.1	17167.6	42.5°	12504.0	8648.8	6704.2	5585.0	4906.6	4505.3	4477.0
20553.6	18038.1	45°	11984.0	8066.6	6082.4	4985.8	4358.3	3985.2	3940.0
22871.3	18823.9	47.5°	11288.7	7337.3	5455.0	4375.3	3736.5	3397.3	3369.1
25398.1	19332.6	50°	10350.3	6517.7	4697.5	3713.9	3109.0	2832.1	2764.2
28348.8	19400.4	52.5°	9185.8	5579.3	3906.1	3024.3	2532.5	2289.4	2249.8
31570.9	18835.2	55°	7795.2	4567.5	3120.4	2413.8	1967.2	1780.6	1746.7
34550.0	17405.0	57.5°	6246.4	3516.0	2402.4	1865.4	1577.1	1447.1	1407.5
37862.5	14742.5	60°	4669.2	2651.2	1842.8	1481.0	1288.8	1198.4	1181.4
40818.9	11452.6	62.5°	3357.8	1995.4	1447.1	1238.0	1130.6	1085.3	1074.0
42486.5	7693.5	65°	2470.3	1537.6	1204.0	1119.3	1040.1	1000.5	983.6
42203.9	5036.7	67.5°	1837.2	1232.3	1068.4	1017.5	961.0	921.4	910.1
39552.7	4013.5	69°	1548.9	1113.6	1000.5	949.7	898.8	864.9	847.9
36409.8	3414.3	70°	1401.9	1051.4	966.6	915.8	859.2	831.0	814.0
24425.8	2295.0	72.5°	1102.3	910.1	859.2	802.7	763.1	729.2	723.6
12831.9	1622.4	75°	910.1	780.1	740.5	695.3	655.7	621.8	621.8
5590.6	1164.5	77.5°	763.1	644.4	610.5	565.3	525.7	491.8	486.1
2685.1	842.3	80°	593.5	491.8	469.2	452.2	407.0	356.1	350.5
1418.9	604.9	82.5°	424.0	333.5	327.9	316.6	277.0	248.7	237.4
768.8	361.8	85°	265.7	192.2	175.2	152.6	135.7	135.7	135.7
373.1	158.3	87.5°	101.8	56.5	56.5	45.2	33.9	33.9	33.9
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)