

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: P628146

Luminaire Tested: **EPH-VN-06-E-760-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628146
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-760-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54936.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

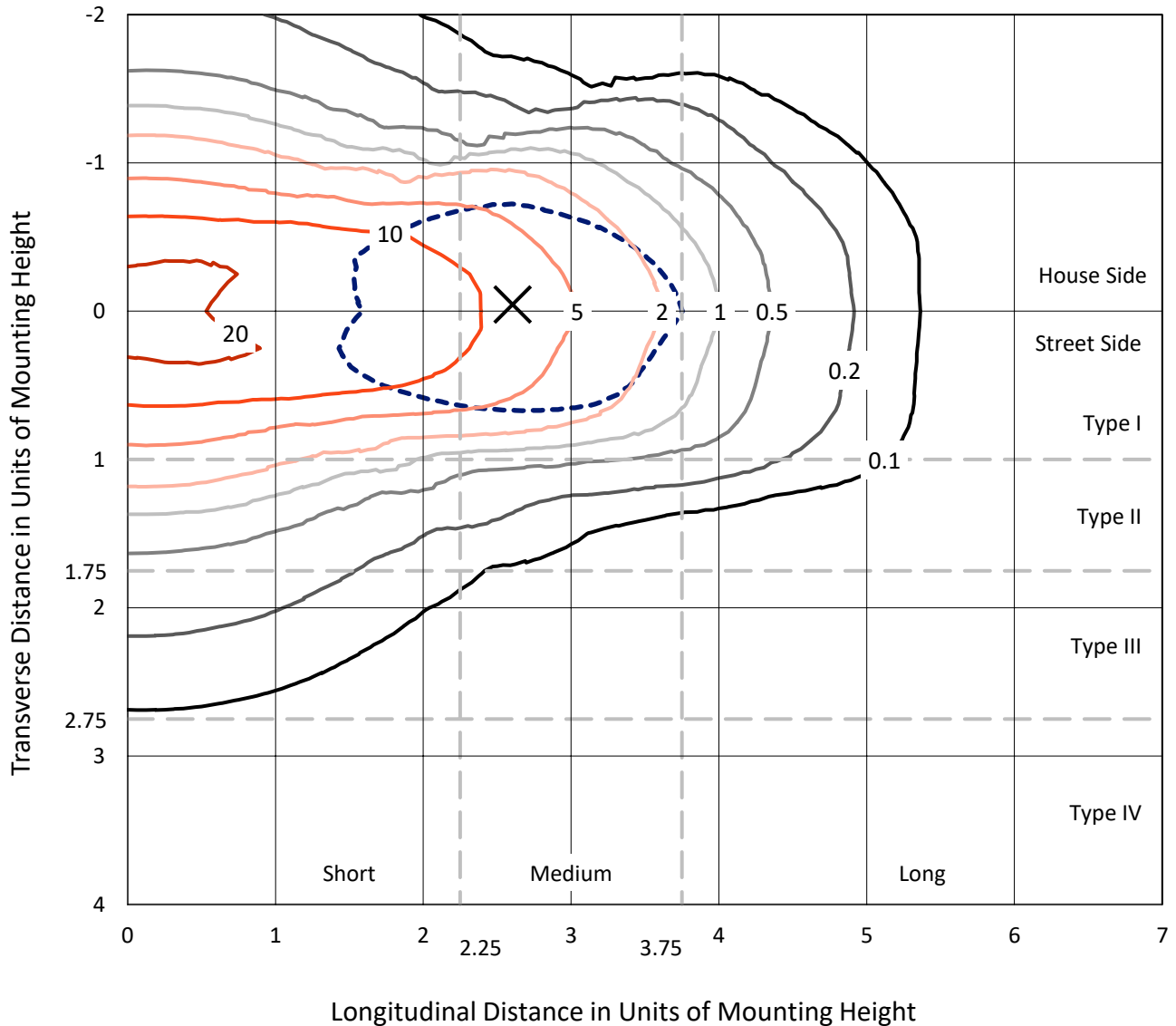
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

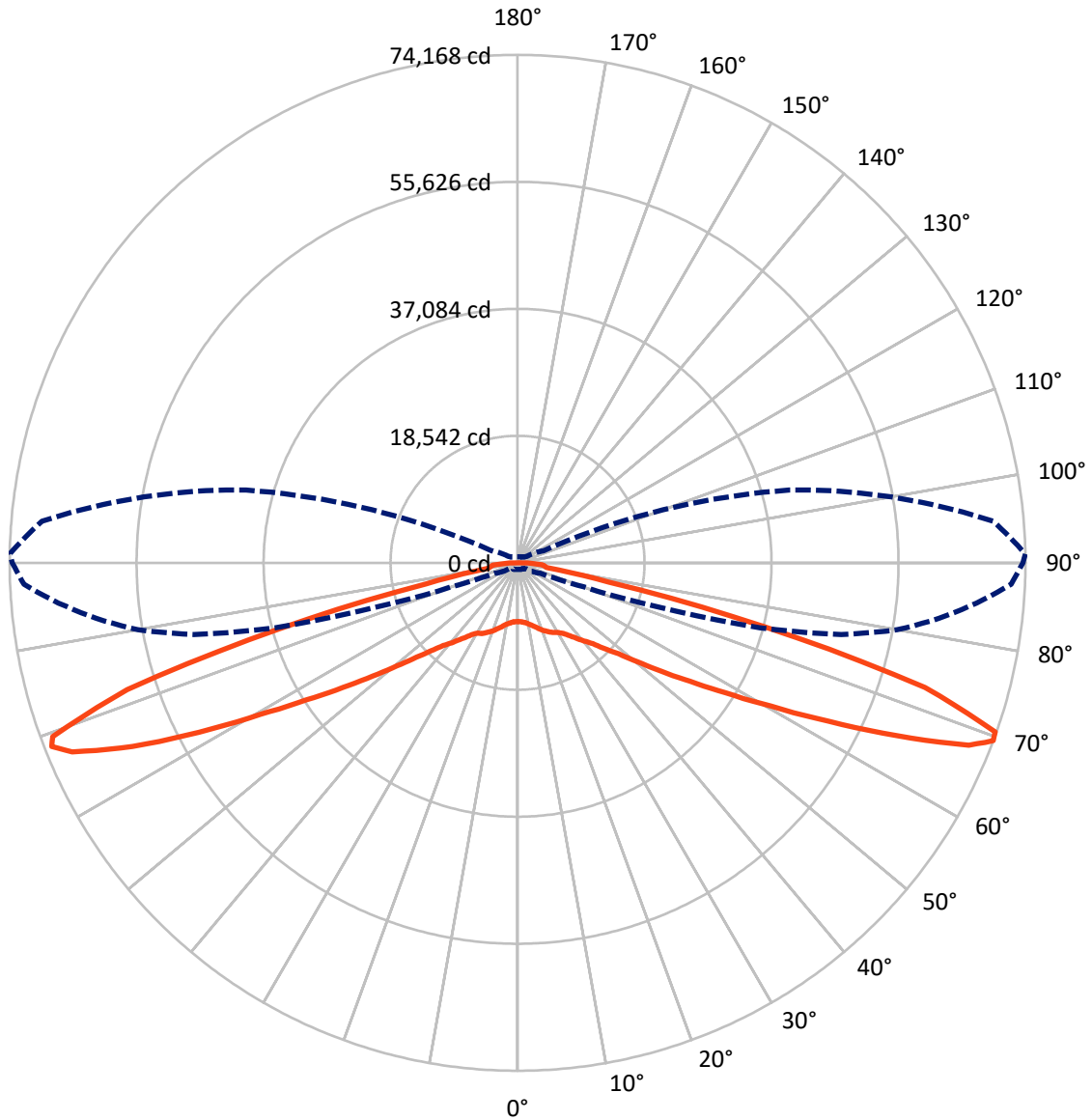
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.4 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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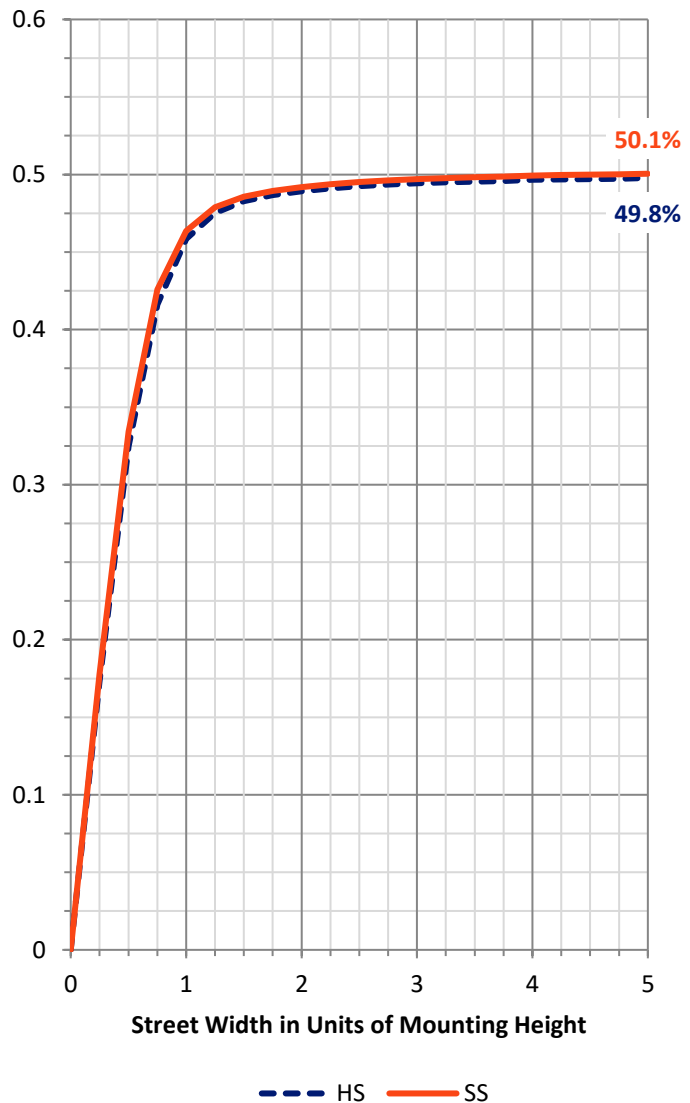
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27542.3	0.0	27542.3
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	27394.4	0.0	27394.4
	% Fixture	49.9	0.0	49.9
Total	Lumens	54936.7	0.0	54936.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.4	1.6
10°-20°	2833.7	5.2
20°-30°	4859.5	8.8
30°-40°	6713.1	12.2
40°-50°	8631.2	15.7
50°-60°	10738.9	19.5
60°-70°	13171.0	24.0
70°-80°	6497.2	11.8
80°-90°	626.8	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°	54936.7	100.0
0°-180°	54936.7	100.0

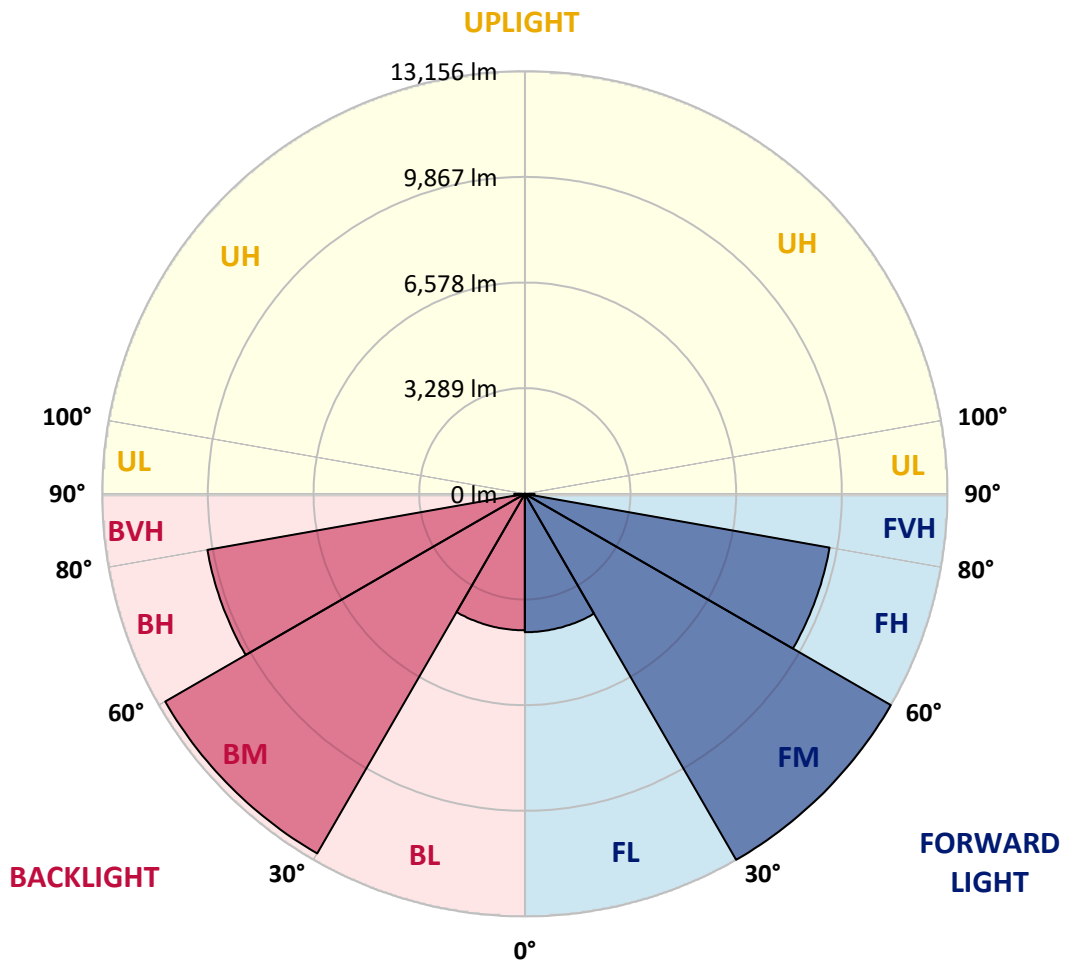


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4308.0	7.8			
FM (30°-60°)	13155.5	23.9			
FH (60°-80°)	9633.6	17.5			G4/12000
FVH (80°-90°)	297.2	0.5			G3/500
BL (0°-30°)	4250.6	7.7	B4/5000		
BM (30°-60°)	12927.6	23.5	B5		
BH (60°-80°)	10034.5	18.3	B5		G5
BVH (80°-90°)	329.5	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°	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0
2.5°	8694.2	8770.4	8705.9	8735.2	8770.4	8752.8	8741.1	8659.0	8688.3	8653.2
5°	8999.1	9051.8	9010.8	9004.9	8969.7	8963.9	8928.7	8799.7	8858.4	8776.3
7.5°	9262.9	9315.6	9262.9	9280.5	9292.2	9257.0	9227.7	9087.0	9098.7	9046.0
10°	9456.3	9538.4	9479.8	9597.0	9597.0	9643.9	9602.9	9397.7	9403.6	9339.1
12.5°	9585.3	9685.0	9661.5	9855.0	9954.7	9978.1	10025.0	9849.1	9837.4	9714.3
15°	9491.5	9509.1	9632.2	9931.2	10277.1	10441.3	10523.3	10318.1	10329.9	10189.2
17.5°	9192.5	9251.1	9368.4	9890.2	10329.9	10816.5	10980.6	10863.4	10839.9	10681.6
20°	8864.2	8875.9	9069.4	9667.4	10347.4	11045.1	11531.7	11437.9	11432.0	11332.4
22.5°	8453.8	8459.7	8729.4	9391.8	10294.7	11150.6	12024.1	12147.3	12065.2	11971.4
25°	7943.8	8008.3	8324.9	9069.4	10112.9	11262.0	12311.4	12715.9	12686.6	12598.7
27.5°	7463.1	7510.0	7855.9	8612.1	9726.0	11097.9	12727.7	13437.0	13360.8	13220.1
30°	7029.2	7105.4	7463.1	8143.1	9245.3	10892.7	13003.2	14029.1	14117.1	13958.8
32.5°	6560.2	6654.0	7029.2	7732.7	8799.7	10699.2	13237.7	14726.8	14943.7	14762.0
35°	6091.2	6161.6	6536.8	7293.0	8477.3	10271.2	13284.6	15629.6	15899.3	15799.6
37.5°	5680.8	5745.3	6114.7	6835.8	8043.5	9954.7	13179.1	16380.0	16866.6	17136.3
40°	5223.6	5305.6	5669.1	6396.1	7468.9	9485.7	13050.1	17218.4	17916.0	18273.7
42.5°	4713.5	4824.9	5176.7	5927.1	7023.4	8905.3	12663.2	17781.2	18865.8	19498.9
45°	4174.2	4256.2	4637.3	5329.1	6495.7	8231.1	12117.9	18467.1	19885.9	21058.4
47.5°	3523.4	3576.2	3963.1	4690.1	5757.1	7533.4	11426.2	18994.8	21029.1	22500.6
50°	2814.0	2866.8	3177.5	3910.3	4948.0	6665.8	10365.0	19217.5	21832.2	23895.9
52.5°	2198.5	2239.5	2485.7	3036.8	4021.7	5675.0	9122.2	19164.8	22342.3	25343.9
55°	1711.9	1747.0	1922.9	2339.2	3083.7	4502.5	7820.7	18197.4	22500.6	26358.1
57.5°	1471.5	1489.1	1571.2	1811.5	2362.6	3412.0	6167.4	16497.3	21720.9	27044.1
60°	1295.6	1301.5	1366.0	1530.1	1829.1	2538.5	4508.3	13782.9	19780.3	26610.2
62.5°	1207.7	1213.6	1248.7	1360.1	1512.5	1917.1	3195.1	10587.8	16339.0	24822.2
65°	1131.5	1137.3	1166.7	1237.0	1301.5	1536.0	2350.9	6982.3	11772.1	20225.9
67.5°	1031.8	1043.5	1072.9	1131.5	1184.2	1278.0	1788.1	4502.5	7410.3	13970.5
69°	967.3	979.1	1008.4	1055.3	1102.2	1190.1	1547.7	3593.8	5592.9	10271.2
70°	920.4	932.1	967.3	1014.2	1055.3	1137.3	1424.6	3189.2	4778.0	8360.0
72.5°	803.2	814.9	838.3	885.2	932.1	990.8	1149.1	2280.5	3247.9	5135.6
75°	685.9	691.8	709.4	756.3	803.2	850.1	967.3	1612.2	2157.4	3154.1
77.5°	533.5	539.4	562.8	615.6	644.9	709.4	820.8	1119.8	1412.9	1835.0
80°	386.9	404.5	433.8	480.7	498.3	533.5	633.2	803.2	932.1	1125.6
82.5°	263.8	275.5	304.9	345.9	357.6	357.6	451.4	592.1	662.5	732.8
85°	152.4	158.3	152.4	175.9	205.2	211.1	293.1	357.6	410.4	474.9
87.5°	46.9	46.9	46.9	58.6	70.4	76.2	129.0	164.2	205.2	246.2
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°
8618.0	0°	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0
8659.0	2.5°	8635.6	8705.9	8623.9	8618.0	8612.1	8571.1	8600.4	8594.5	8659.0
8811.5	5°	8758.7	8758.7	8711.8	8747.0	8735.2	8600.4	8723.5	8723.5	8788.0
9004.9	7.5°	8934.6	8946.3	8922.8	8905.3	8881.8	8782.1	8858.4	8846.6	8899.4
9362.5	10°	9274.6	9262.9	9157.3	9157.3	9133.9	9028.4	9075.3	9110.4	9210.1
9708.4	12.5°	9643.9	9567.7	9579.5	9538.4	9462.2	9280.5	9350.8	9356.7	9456.3
10195.0	15°	10048.5	9966.4	9931.2	9896.0	9819.8	9649.8	9749.5	9690.8	9761.2
10640.6	17.5°	10593.7	10488.2	10365.0	10271.2	10159.8	10025.0	10071.9	10118.8	10165.7
11221.0	20°	11197.5	11027.5	10886.8	10734.4	10640.6	10470.6	10529.2	10535.1	10587.8
11830.7	22.5°	11678.3	11531.7	11373.4	11262.0	11068.5	10898.5	10834.0	10845.8	10939.6
12458.0	25°	12305.6	12041.7	11883.4	11701.7	11531.7	11238.6	11209.2	11221.0	11373.4
13161.5	27.5°	12850.8	12633.9	12370.0	12094.5	11848.3	11613.8	11578.6	11537.6	11719.3
13806.4	30°	13560.1	13237.7	12815.6	12551.8	12141.4	11813.1	11766.2	11807.2	11912.8
14750.2	32.5°	14322.3	13982.2	13536.7	13196.7	12698.3	12317.3	12264.5	12305.6	12499.0
15723.4	35°	15442.0	15072.7	14533.3	14011.6	13536.7	13120.4	13091.1	13026.6	13284.6
17060.1	37.5°	16784.6	16292.1	15782.1	15201.7	14697.5	14111.2	13941.2	13994.0	14205.0
18355.7	40°	18297.1	17828.1	17189.1	16526.6	15911.0	15289.6	15043.4	15008.2	15377.5
20044.2	42.5°	20044.2	19721.7	18789.6	18004.0	17194.9	16415.2	16122.1	16139.7	16479.7
21926.0	45°	22084.3	21844.0	21017.3	20032.4	19082.7	18091.9	17898.4	17910.2	18367.5
23626.2	47.5°	24493.8	24646.3	23866.6	22828.9	21656.4	20460.4	19991.4	19874.1	20384.2
25742.6	50°	26932.7	27894.1	27307.9	26317.1	24933.5	23520.7	22916.8	22705.8	23438.6
27841.4	52.5°	29787.8	31335.5	31517.2	30755.1	29201.5	27225.8	26557.5	26340.6	27272.7
29957.8	55°	32748.4	35111.0	35996.2	36101.8	34249.2	32080.0	30819.6	30567.5	32027.3
31810.3	57.5°	35738.3	39308.6	41120.1	42193.0	40639.4	37819.5	36025.5	35755.9	38341.3
33287.7	60°	38810.3	43652.8	46560.6	49269.1	48372.1	45241.5	42468.5	42480.2	46021.2
33920.9	62.5°	41055.6	47146.8	51778.3	56145.9	56954.9	54774.1	51262.4	50904.8	54650.9
32033.1	65°	42251.6	50447.5	56134.2	61316.7	64136.6	64031.1	61170.1	60853.6	63609.0
26569.2	67.5°	40463.5	50570.6	57699.5	62858.6	68029.4	70884.4	70520.9	71066.2	69448.1
21052.5	69°	36652.8	48395.6	56304.2	62073.0	67296.5	72121.4	73768.8	74167.5	69711.9
17423.6	70°	32467.0	45692.9	53976.8	59546.2	64341.8	70339.2	73868.5	73991.6	67378.6
9814.0	72.5°	20261.1	34249.2	42398.2	47721.4	50693.7	56374.5	62319.2	62219.5	53302.6
5487.4	75°	10640.6	19733.4	26375.7	29078.4	30743.4	33662.9	37684.6	37180.5	32039.0
2808.2	77.5°	4737.0	8383.5	10687.5	12217.6	12645.6	13495.7	13894.3	13566.0	12880.1
1512.5	80°	2298.1	3470.6	4514.2	4772.1	4467.3	4256.2	4355.9	4309.0	4713.5
873.5	82.5°	1143.2	1594.6	1799.8	2157.4	3177.5	3904.5	4015.9	3969.0	3558.6
527.6	85°	609.7	732.8	844.2	1547.7	2843.4	3564.4	3670.0	3652.4	3288.9
287.3	87.5°	340.0	422.1	609.7	1237.0	1717.7	1817.4	1917.1	1858.4	1911.2
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°
8618.0	8618.0	0°	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0	8618.0
8641.4	8717.7	2.5°	8670.8	8717.7	8741.1	8653.2	8705.9	8659.0	8670.8
8776.3	8875.9	5°	8817.3	8928.7	8911.1	8911.1	8922.8	8852.5	8881.8
8899.4	9046.0	7.5°	9110.4	9151.5	9245.3	9210.1	9174.9	9104.6	9116.3
9233.6	9374.3	10°	9509.1	9509.1	9567.7	9509.1	9397.7	9350.8	9339.1
9573.6	9837.4	12.5°	9896.0	9837.4	9872.6	9702.6	9573.6	9479.8	9526.7
9878.4	10183.3	15°	10241.9	10230.2	10101.2	9884.3	9567.7	9397.7	9409.4
10406.1	10675.8	17.5°	10757.8	10652.3	10312.3	9749.5	9356.7	9192.5	9110.4
10898.5	11209.2	20°	11267.9	10974.7	10288.8	9532.6	9010.8	8741.1	8747.0
11314.8	11760.3	22.5°	11713.4	11097.9	10206.7	9257.0	8694.2	8330.7	8324.9
11901.0	12334.9	25°	12141.4	11027.5	10042.6	9004.9	8342.4	7990.7	7943.8
12416.9	12979.7	27.5°	12475.6	10963.0	9643.9	8600.4	7861.7	7574.5	7545.1
12885.9	13689.1	30°	12686.6	10822.3	9286.3	8125.5	7416.2	7134.8	7123.0
13747.7	14293.0	32.5°	12927.0	10605.4	8817.3	7703.4	7023.4	6718.5	6700.9
14762.0	15184.1	35°	13149.8	10277.1	8436.2	7304.8	6613.0	6255.4	6202.6
15999.0	16192.4	37.5°	13196.7	9913.6	7961.4	6829.9	6102.9	5757.1	5751.2
17576.0	17066.0	40°	13202.5	9473.9	7457.2	6355.0	5604.6	5252.9	5229.4
19282.0	17804.6	42.5°	12968.0	8969.7	6953.0	5792.2	5088.7	4672.5	4643.2
21316.3	18707.5	45°	12428.7	8365.9	6308.1	5170.8	4520.0	4133.1	4086.2
23720.0	19522.4	47.5°	11707.6	7609.6	5657.4	4537.6	3875.2	3523.4	3494.1
26340.6	20050.0	50°	10734.4	6759.6	4871.8	3851.7	3224.4	2937.2	2866.8
29400.8	20120.4	52.5°	9526.7	5786.4	4051.0	3136.5	2626.4	2374.3	2333.3
32742.5	19534.1	55°	8084.5	4737.0	3236.1	2503.3	2040.2	1846.7	1811.5
35832.1	18050.9	57.5°	6478.1	3646.5	2491.6	1934.7	1635.7	1500.8	1459.8
39267.5	15289.6	60°	4842.5	2749.5	1911.2	1536.0	1336.7	1242.9	1225.3
42333.7	11877.6	62.5°	3482.4	2069.5	1500.8	1283.9	1172.5	1125.6	1113.9
44063.1	7979.0	65°	2561.9	1594.6	1248.7	1160.8	1078.7	1037.7	1020.1
43770.0	5223.6	67.5°	1905.3	1278.0	1108.0	1055.3	996.6	955.6	943.9
41020.5	4162.4	69°	1606.3	1154.9	1037.7	984.9	932.1	897.0	879.4
37760.9	3541.0	70°	1453.9	1090.4	1002.5	949.7	891.1	861.8	844.2
25332.2	2380.2	72.5°	1143.2	943.9	891.1	832.5	791.4	756.3	750.4
13308.1	1682.6	75°	943.9	809.0	768.0	721.1	680.1	644.9	644.9
5798.1	1207.7	77.5°	791.4	668.3	633.2	586.3	545.2	510.0	504.2
2784.7	873.5	80°	615.6	510.0	486.6	469.0	422.1	369.3	363.5
1471.5	627.3	82.5°	439.7	345.9	340.0	328.3	287.3	258.0	246.2
797.3	375.2	85°	275.5	199.3	181.7	158.3	140.7	140.7	140.7
386.9	164.2	87.5°	105.5	58.6	58.6	46.9	35.2	35.2	35.2
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)