

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: P628123

Luminaire Tested: **EPH-VN-07-E-730-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628123
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-730-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52175.8 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

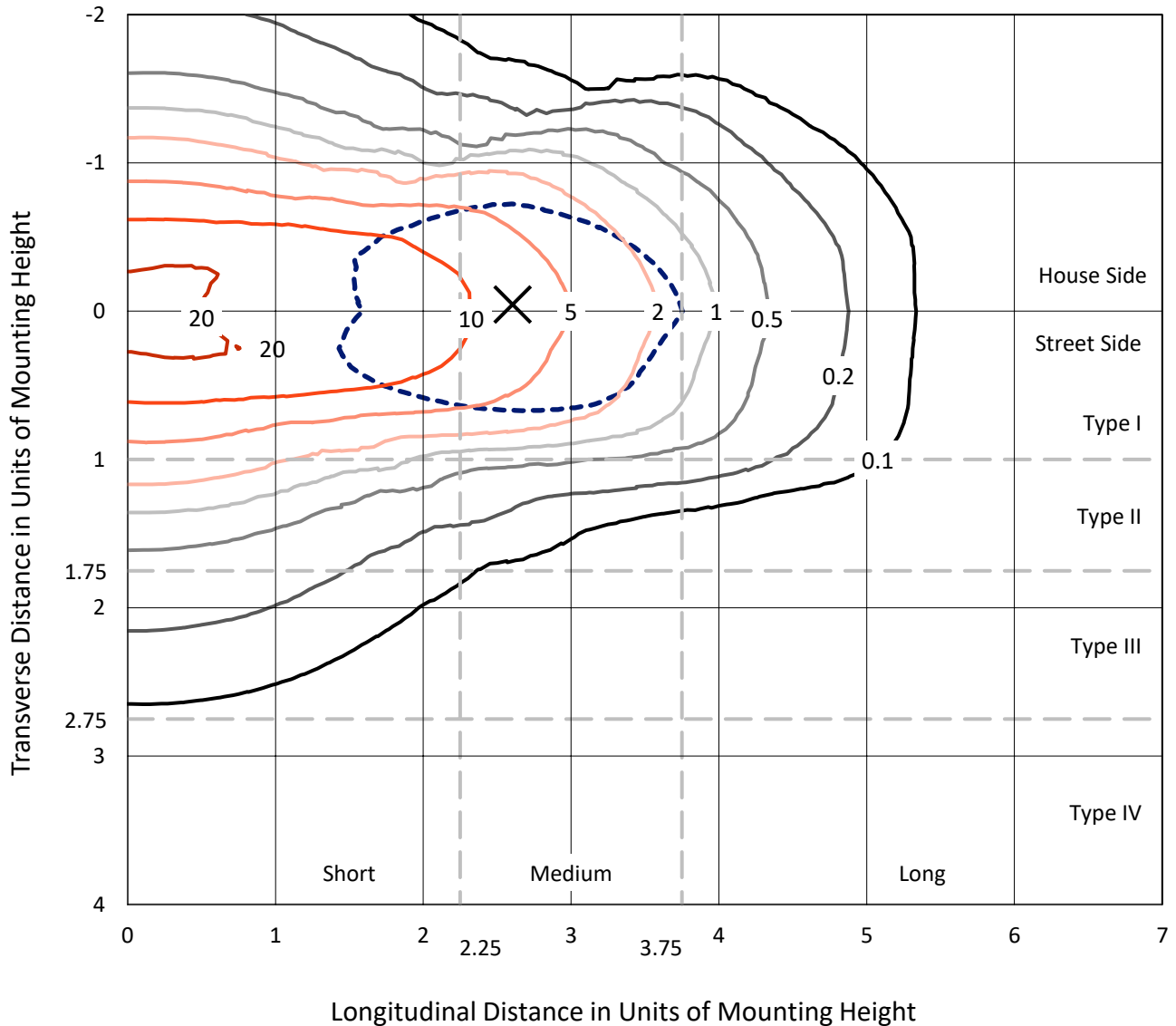
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

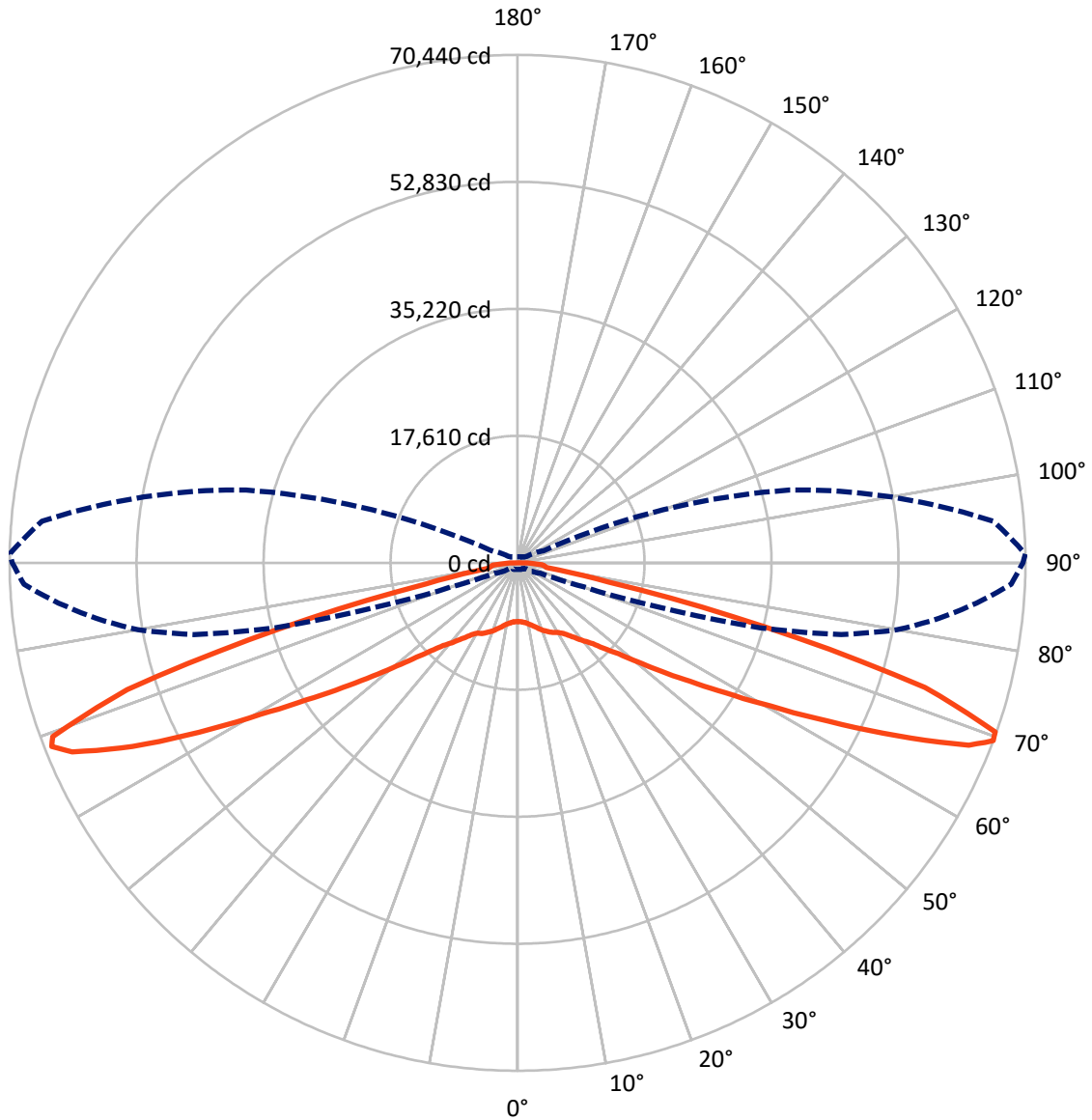
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 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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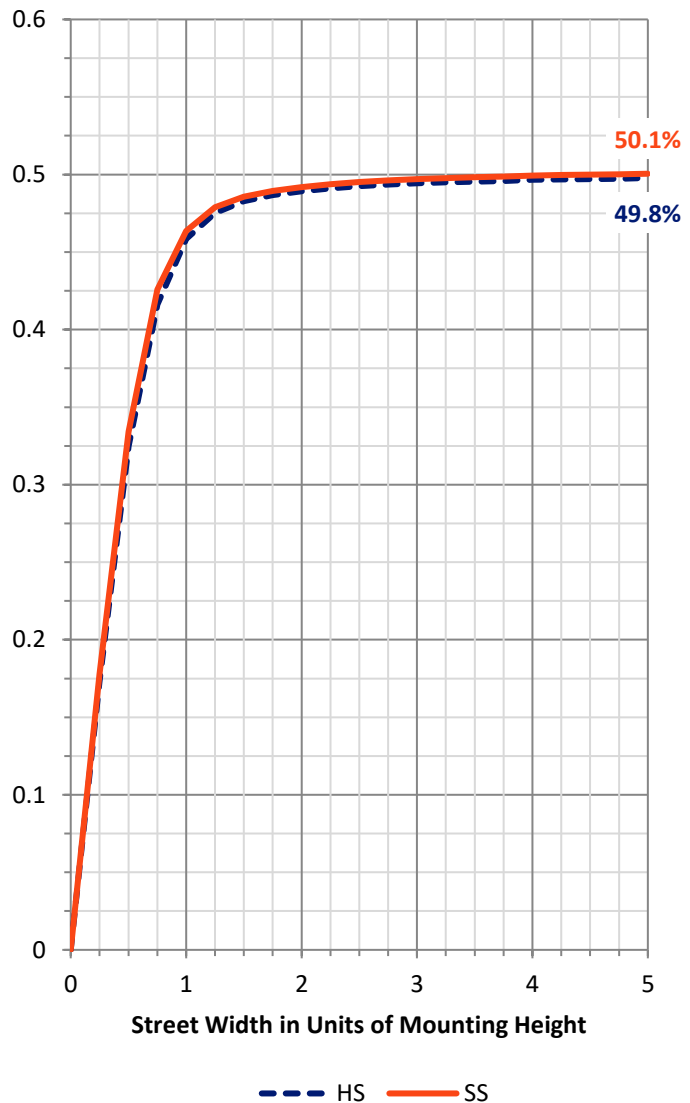
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26158.2	0.0	26158.2
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	26017.7	0.0	26017.7
	% Fixture	49.9	0.0	49.9
Total	Lumens	52175.8	0.0	52175.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.9	1.6
10°-20°	2691.3	5.2
20°-30°	4615.3	8.8
30°-40°	6375.7	12.2
40°-50°	8197.4	15.7
50°-60°	10199.2	19.5
60°-70°	12509.1	24.0
70°-80°	6170.6	11.8
80°-90°	595.3	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°	52175.8	100.0
0°-180°	52175.8	100.0

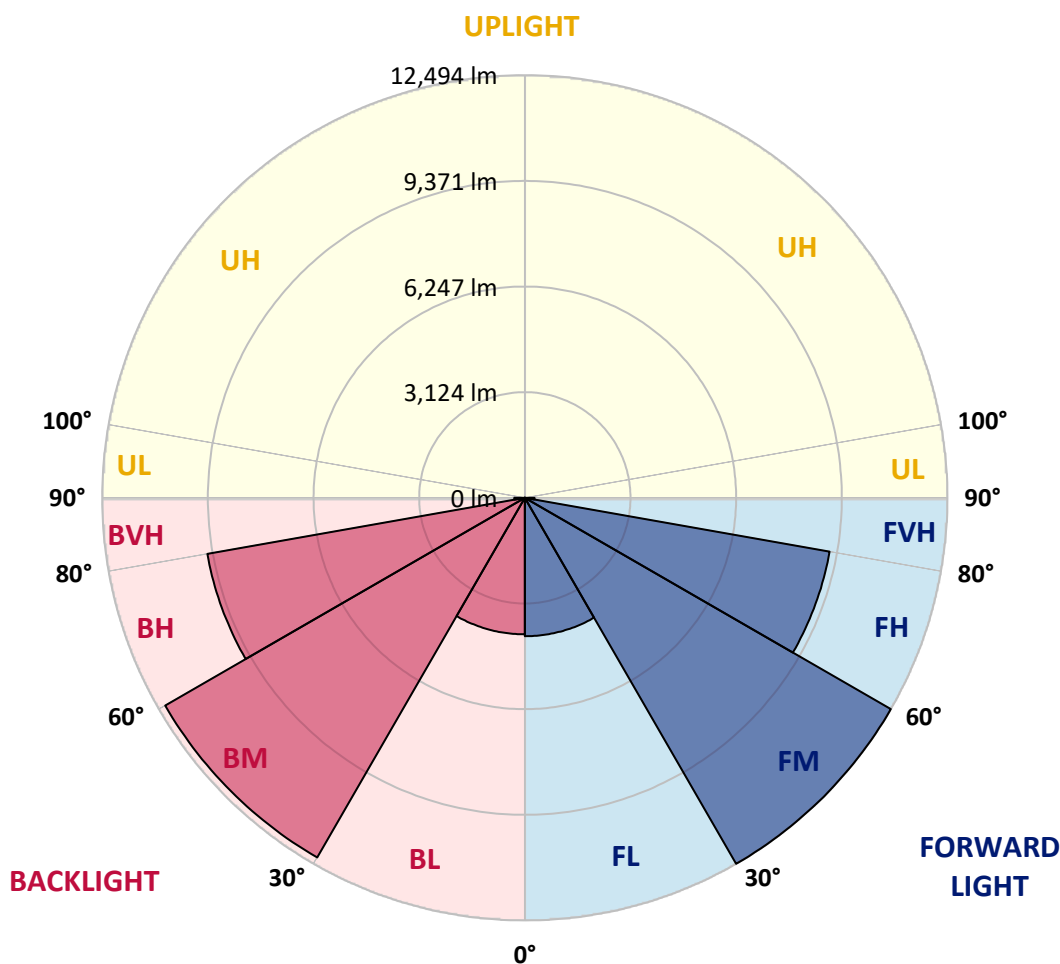


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4091.5	7.8			
FM (30°-60°)	12494.4	23.9			
FH (60°-80°)	9149.5	17.5			G4/12000
FVH (80°-90°)	282.3	0.5			G3/500
BL (0°-30°)	4037.0	7.7	B4/5000		
BM (30°-60°)	12277.9	23.5	B5		
BH (60°-80°)	9530.2	18.3	B5		G5
BVH (80°-90°)	313.0	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°	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9
2.5°	8257.3	8329.7	8268.4	8296.3	8329.7	8313.0	8301.8	8223.9	8251.7	8218.3
5°	8546.8	8596.9	8558.0	8552.4	8519.0	8513.4	8480.0	8357.5	8413.2	8335.2
7.5°	8797.4	8847.5	8797.4	8814.1	8825.2	8791.8	8764.0	8630.3	8641.5	8591.4
10°	8981.1	9059.1	9003.4	9114.7	9114.7	9159.3	9120.3	8925.4	8931.0	8869.8
12.5°	9103.6	9198.3	9176.0	9359.7	9454.4	9476.7	9521.2	9354.2	9343.0	9226.1
15°	9014.5	9031.2	9148.2	9432.1	9760.6	9916.5	9994.5	9799.6	9810.7	9677.1
17.5°	8730.6	8786.2	8897.6	9393.1	9810.7	10272.9	10428.8	10317.4	10295.2	10144.8
20°	8418.8	8429.9	8613.6	9181.6	9827.4	10490.0	10952.2	10863.1	10857.5	10762.9
22.5°	8029.0	8034.6	8290.7	8919.9	9777.3	10590.3	11419.9	11536.8	11458.9	11369.8
25°	7544.6	7605.8	7906.5	8613.6	9604.7	10696.0	11692.7	12076.9	12049.1	11965.5
27.5°	7088.0	7132.6	7461.1	8179.3	9237.2	10540.1	12088.0	12761.8	12689.4	12555.7
30°	6676.0	6748.4	7088.0	7733.9	8780.7	10345.3	12349.7	13324.1	13407.6	13257.3
32.5°	6230.5	6319.6	6676.0	7344.1	8357.5	10161.5	12572.4	13986.7	14192.7	14020.1
35°	5785.1	5851.9	6208.3	6926.5	8051.3	9755.1	12617.0	14844.2	15100.3	15005.6
37.5°	5395.4	5456.6	5807.4	6492.2	7639.2	9454.4	12516.8	15556.9	16019.0	16275.1
40°	4961.1	5039.0	5384.2	6074.6	7093.6	9009.0	12394.3	16353.1	17015.7	17355.3
42.5°	4476.6	4582.4	4916.5	5629.2	6670.4	8457.7	12026.8	16887.6	17917.7	18519.0
45°	3964.4	4042.3	4404.3	5061.3	6169.3	7817.4	11509.0	17539.1	18886.5	20000.1
47.5°	3346.3	3396.5	3763.9	4454.4	5467.7	7154.8	10851.9	18040.2	19972.3	21369.8
50°	2672.6	2722.7	3017.8	3713.8	4699.4	6330.8	9844.1	18251.8	20735.1	22695.0
52.5°	2088.0	2127.0	2360.8	2884.2	3819.6	5389.8	8663.7	18201.7	21219.5	24070.3
55°	1625.8	1659.3	1826.3	2221.6	2928.7	4276.2	7427.7	17282.9	21369.8	25033.5
57.5°	1397.6	1414.3	1492.2	1720.5	2243.9	3240.6	5857.5	15668.2	20629.3	25685.0
60°	1230.5	1236.1	1297.3	1453.2	1737.2	2410.9	4281.8	13090.3	18786.3	25273.0
62.5°	1147.0	1152.6	1186.0	1291.8	1436.5	1820.7	3034.5	10055.7	15517.9	23574.7
65°	1074.6	1080.2	1108.0	1174.8	1236.1	1458.8	2232.8	6631.4	11180.5	19209.5
67.5°	980.0	991.1	1018.9	1074.6	1124.7	1213.8	1698.2	4276.2	7037.9	13268.4
69°	918.7	929.8	957.7	1002.2	1046.8	1130.3	1469.9	3413.2	5311.8	9755.1
70°	874.2	885.3	918.7	963.3	1002.2	1080.2	1353.0	3029.0	4537.9	7939.9
72.5°	762.8	773.9	796.2	840.8	885.3	941.0	1091.3	2165.9	3084.6	4877.5
75°	651.5	657.0	673.7	718.3	762.8	807.4	918.7	1531.2	2049.0	2995.6
77.5°	506.7	512.3	534.5	584.6	612.5	673.7	779.5	1063.5	1341.9	1742.8
80°	367.5	384.2	412.0	456.6	473.3	506.7	601.3	762.8	885.3	1069.0
82.5°	250.6	261.7	289.5	328.5	339.6	339.6	428.7	562.4	629.2	696.0
85°	144.8	150.3	144.8	167.0	194.9	200.4	278.4	339.6	389.8	451.0
87.5°	44.5	44.5	44.5	55.7	66.8	72.4	122.5	155.9	194.9	233.9
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°
8184.9	0°	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9
8223.9	2.5°	8201.6	8268.4	8190.5	8184.9	8179.3	8140.4	8168.2	8162.6	8223.9
8368.6	5°	8318.5	8318.5	8274.0	8307.4	8296.3	8168.2	8285.1	8285.1	8346.4
8552.4	7.5°	8485.6	8496.7	8474.4	8457.7	8435.5	8340.8	8413.2	8402.0	8452.2
8892.0	10°	8808.5	8797.4	8697.1	8697.1	8674.9	8574.7	8619.2	8652.6	8747.3
9220.5	12.5°	9159.3	9086.9	9098.0	9059.1	8986.7	8814.1	8880.9	8886.5	8981.1
9682.7	15°	9543.5	9465.5	9432.1	9398.7	9326.3	9164.9	9259.5	9203.8	9270.6
10105.8	17.5°	10061.3	9961.1	9844.1	9755.1	9649.3	9521.2	9565.8	9610.3	9654.8
10657.1	20°	10634.8	10473.3	10339.7	10194.9	10105.8	9944.4	10000.1	10005.6	10055.7
11236.1	22.5°	11091.4	10952.2	10801.8	10696.0	10512.3	10350.8	10289.6	10300.7	10389.8
11831.9	25°	11687.1	11436.6	11286.3	11113.6	10952.2	10673.8	10645.9	10657.1	10801.8
12500.1	27.5°	12205.0	11998.9	11748.4	11486.7	11252.8	11030.1	10996.7	10957.7	11130.3
13112.5	30°	12878.7	12572.4	12171.6	11921.0	11531.2	11219.4	11174.9	11213.9	11314.1
14009.0	32.5°	13602.5	13279.6	12856.4	12533.5	12060.2	11698.3	11648.2	11687.1	11870.9
14933.3	35°	14666.0	14315.2	13803.0	13307.4	12856.4	12461.1	12433.2	12372.0	12617.0
16202.8	37.5°	15941.1	15473.4	14988.9	14437.7	13958.9	13402.1	13240.6	13290.7	13491.2
17433.3	40°	17377.6	16932.2	16325.3	15696.1	15111.4	14521.2	14287.4	14254.0	14604.8
19036.8	42.5°	19036.8	18730.6	17845.3	17099.2	16330.8	15590.3	15311.9	15328.6	15651.5
20824.2	45°	20974.5	20746.2	19961.1	19025.7	18123.7	17182.7	16999.0	17010.1	17444.4
22438.9	47.5°	23262.9	23407.7	22667.2	21681.6	20568.0	19432.2	18986.7	18875.4	19359.8
24448.9	50°	25579.2	26492.3	25935.5	24994.6	23680.5	22338.6	21765.1	21564.7	22260.7
26442.2	52.5°	28290.8	29760.7	29933.3	29209.5	27734.0	25857.6	25222.8	25016.8	25902.1
28452.3	55°	31102.6	33346.5	34187.3	34287.5	32528.0	30467.9	29270.8	29031.3	30417.8
30211.7	57.5°	33942.3	37333.2	39053.7	40072.6	38597.1	35918.9	34215.1	33959.0	36414.4
31614.9	60°	36859.9	41459.0	44220.7	46793.1	45941.2	42967.9	40334.3	40345.4	43708.5
32216.2	62.5°	38992.4	44777.5	49176.2	53324.3	54092.7	52021.4	48686.2	48346.6	51904.5
30423.3	65°	40128.3	47912.3	53313.2	58235.3	60913.5	60813.2	58096.1	57795.4	60412.3
25234.0	67.5°	38430.0	48029.2	54799.8	59699.6	64610.6	67322.2	66977.0	67494.8	65958.0
19994.5	69°	34810.9	45963.5	53474.7	58953.5	63914.6	68497.0	70061.6	70440.2	66208.6
16548.0	70°	30835.3	43396.7	51264.2	56553.7	61108.3	66804.4	70156.3	70273.2	63992.5
9320.8	72.5°	19242.9	32528.0	40267.5	45323.2	48146.1	53541.5	59187.4	59092.7	50623.9
5211.6	75°	10105.8	18741.7	25050.2	27617.1	29198.4	31971.2	35790.8	35312.0	30428.9
2667.1	77.5°	4498.9	7962.2	10150.4	11603.6	12010.1	12817.4	13196.1	12884.3	12232.8
1436.5	80°	2182.6	3296.2	4287.3	4532.3	4242.8	4042.3	4137.0	4092.4	4476.6
829.6	82.5°	1085.8	1514.5	1709.4	2049.0	3017.8	3708.3	3814.1	3769.5	3379.8
501.1	85°	579.1	696.0	801.8	1469.9	2700.5	3385.3	3485.5	3468.8	3123.6
272.8	87.5°	322.9	400.9	579.1	1174.8	1631.4	1726.1	1820.7	1765.0	1815.2
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°
8184.9	8184.9	0°	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9	8184.9
8207.2	8279.6	2.5°	8235.0	8279.6	8301.8	8218.3	8268.4	8223.9	8235.0
8335.2	8429.9	5°	8374.2	8480.0	8463.3	8463.3	8474.4	8407.6	8435.5
8452.2	8591.4	7.5°	8652.6	8691.6	8780.7	8747.3	8713.9	8647.0	8658.2
8769.5	8903.2	10°	9031.2	9031.2	9086.9	9031.2	8925.4	8880.9	8869.8
9092.5	9343.0	12.5°	9398.7	9343.0	9376.4	9215.0	9092.5	9003.4	9047.9
9382.0	9671.5	15°	9727.2	9716.1	9593.6	9387.6	9086.9	8925.4	8936.6
9883.1	10139.3	17.5°	10217.2	10117.0	9794.0	9259.5	8886.5	8730.6	8652.6
10350.8	10645.9	20°	10701.6	10423.2	9771.8	9053.5	8558.0	8301.8	8307.4
10746.2	11169.3	22.5°	11124.8	10540.1	9693.8	8791.8	8257.3	7912.1	7906.5
11303.0	11715.0	25°	11531.2	10473.3	9537.9	8552.4	7923.2	7589.1	7544.6
11792.9	12327.5	27.5°	11848.6	10412.1	9159.3	8168.2	7466.6	7193.8	7166.0
12238.4	13001.2	30°	12049.1	10278.4	8819.6	7717.2	7043.5	6776.2	6765.1
13056.9	13574.7	32.5°	12277.3	10072.4	8374.2	7316.3	6670.4	6380.9	6364.2
14020.1	14421.0	35°	12488.9	9760.6	8012.3	6937.7	6280.7	5941.0	5890.9
15195.0	15378.7	37.5°	12533.5	9415.4	7561.3	6486.7	5796.2	5467.7	5462.2
16692.7	16208.3	40°	12539.0	8997.8	7082.4	6035.7	5323.0	4988.9	4966.6
18313.0	16909.9	42.5°	12316.3	8519.0	6603.6	5501.1	4833.0	4437.7	4409.8
20245.1	17767.4	45°	11804.1	7945.5	5991.1	4910.9	4292.9	3925.4	3880.9
22528.0	18541.3	47.5°	11119.2	7227.2	5373.1	4309.6	3680.4	3346.3	3318.5
25016.8	19042.4	50°	10194.9	6419.9	4627.0	3658.1	3062.4	2789.5	2722.7
27923.3	19109.2	52.5°	9047.9	5495.6	3847.5	2978.9	2494.4	2255.0	2216.0
31097.0	18552.4	55°	7678.2	4498.9	3073.5	2377.5	1937.6	1753.9	1720.5
34031.4	17143.7	57.5°	6152.6	3463.3	2366.4	1837.4	1553.5	1425.4	1386.4
37294.2	14521.2	60°	4599.1	2611.4	1815.2	1458.8	1269.5	1180.4	1163.7
40206.2	11280.7	62.5°	3307.4	1965.5	1425.4	1219.4	1113.6	1069.0	1057.9
41848.8	7578.0	65°	2433.2	1514.5	1186.0	1102.5	1024.5	985.5	968.8
41570.4	4961.1	67.5°	1809.6	1213.8	1052.3	1002.2	946.6	907.6	896.4
38959.0	3953.2	69°	1525.6	1096.9	985.5	935.4	885.3	851.9	835.2
35863.2	3363.0	70°	1380.9	1035.6	952.1	902.0	846.3	818.5	801.8
24059.1	2260.6	72.5°	1085.8	896.4	846.3	790.6	751.7	718.3	712.7
12639.3	1598.0	75°	896.4	768.4	729.4	684.9	645.9	612.5	612.5
5506.7	1147.0	77.5°	751.7	634.7	601.3	556.8	517.8	484.4	478.8
2644.8	829.6	80°	584.6	484.4	462.1	445.4	400.9	350.8	345.2
1397.6	595.8	82.5°	417.6	328.5	322.9	311.8	272.8	245.0	233.9
757.2	356.3	85°	261.7	189.3	172.6	150.3	133.6	133.6	133.6
367.5	155.9	87.5°	100.2	55.7	55.7	44.5	33.4	33.4	33.4
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)