

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: P628135

Luminaire Tested: **EPH-VN-07-E-740-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628135
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-740-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57298.3 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

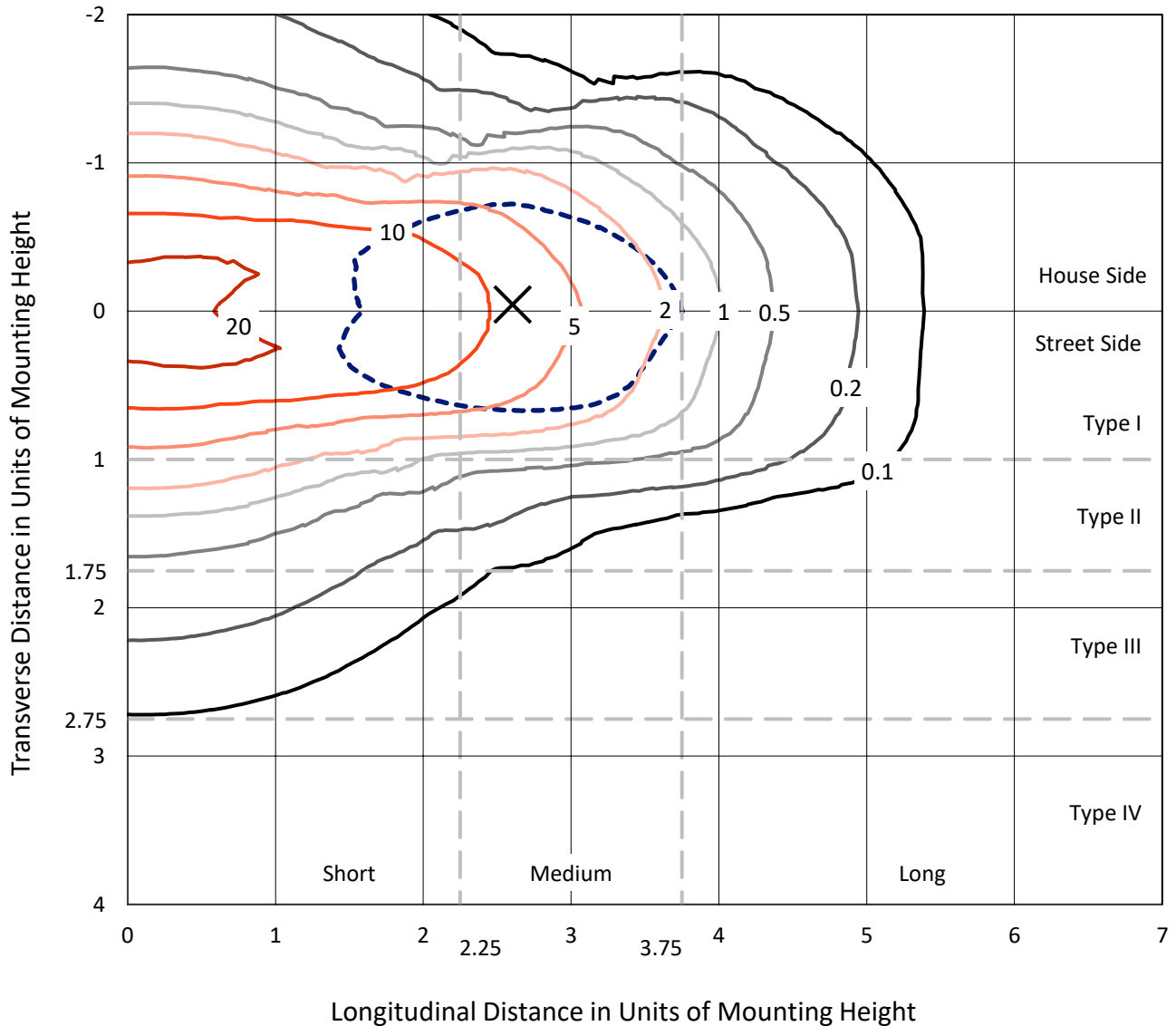
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

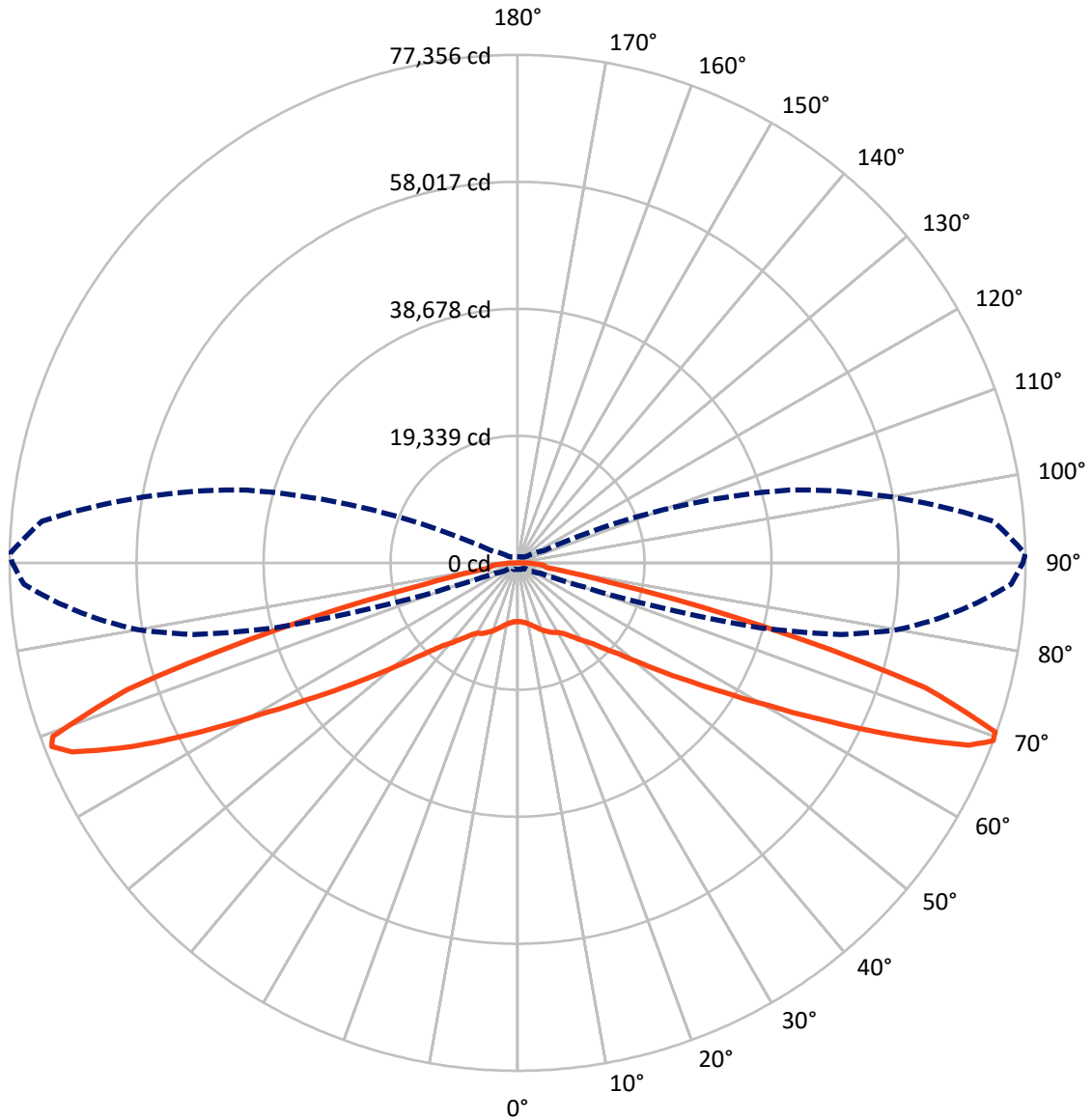
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.4 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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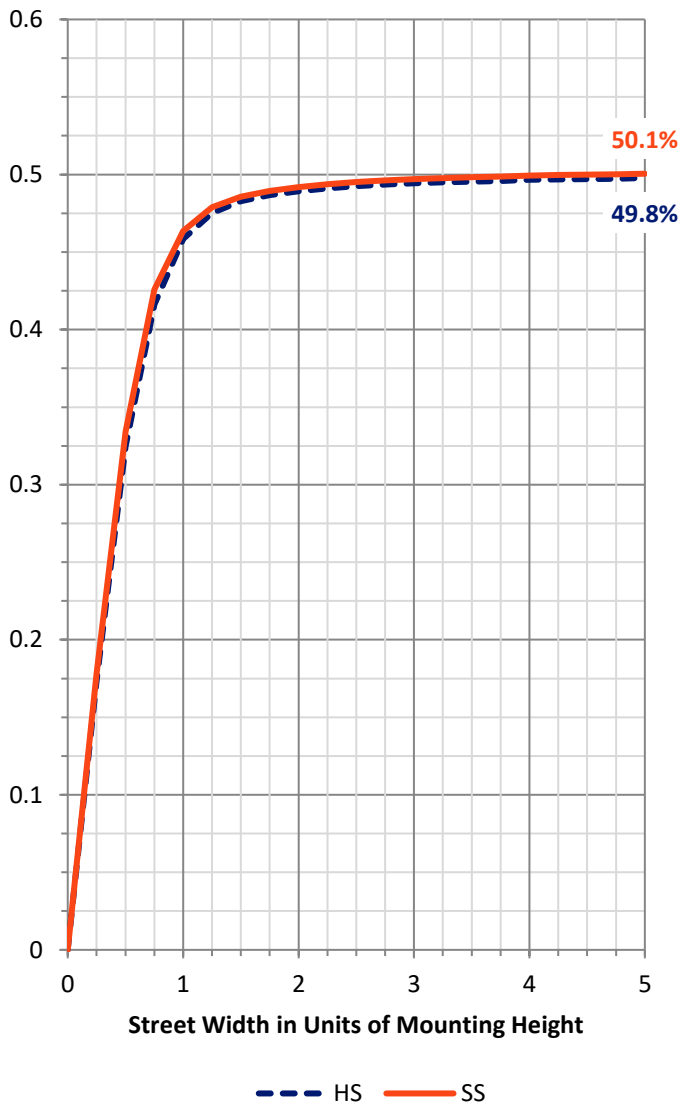
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28726.3	0.0	28726.3
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	28572.0	0.0	28572.0
	% Fixture	49.9	0.0	49.9
Total	Lumens	57298.3	0.0	57298.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.6	1.6
10°-20°	2955.5	5.2
20°-30°	5068.4	8.8
30°-40°	7001.7	12.2
40°-50°	9002.2	15.7
50°-60°	11200.5	19.5
60°-70°	13737.2	24.0
70°-80°	6776.5	11.8
80°-90°	653.7	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°	57298.3	100.0
0°-180°	57298.3	100.0

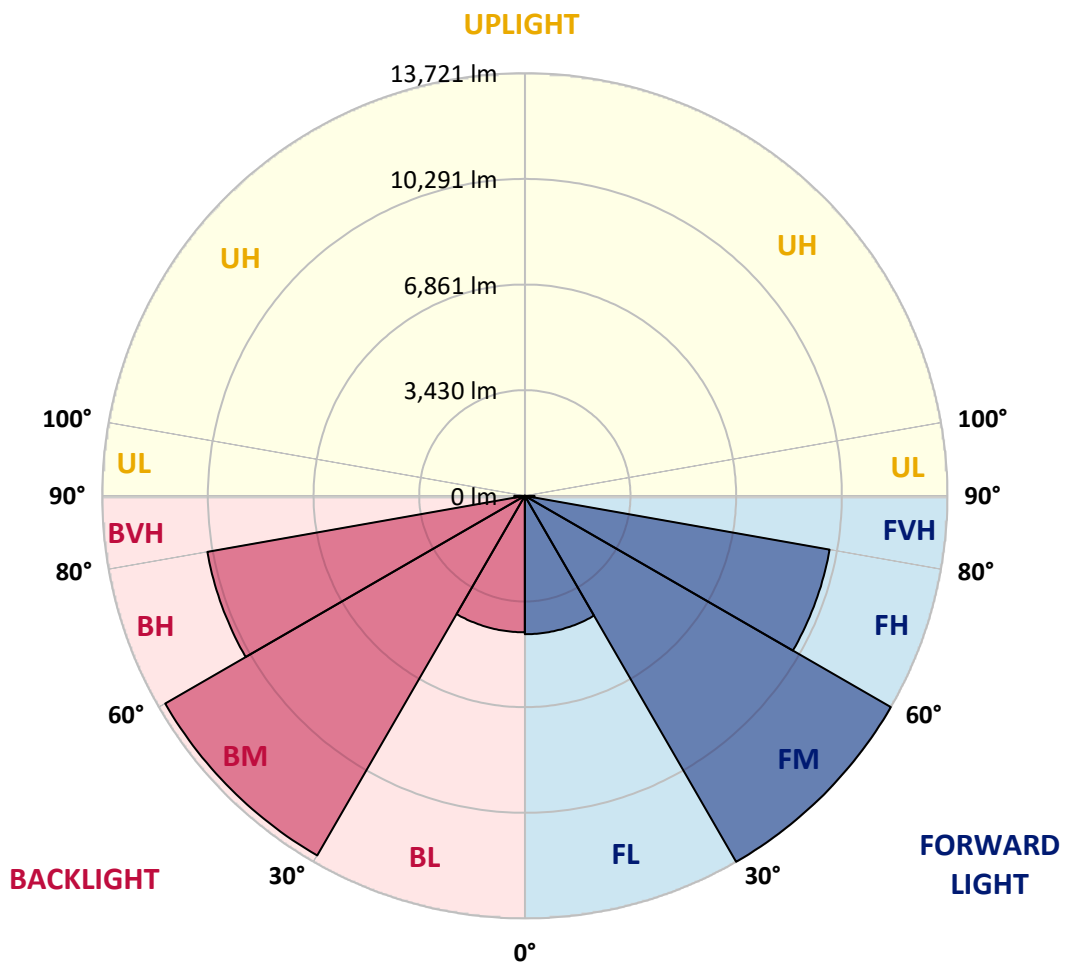


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4493.2	7.8			
FM (30°-60°)	13721.1	23.9			
FH (60°-80°)	10047.8	17.5			G4/12000
FVH (80°-90°)	310.0	0.5			G3/500
BL (0°-30°)	4433.4	7.7	B4/5000		
BM (30°-60°)	13483.3	23.5	B5		
BH (60°-80°)	10465.9	18.3	B5		G5
BVH (80°-90°)	343.7	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°	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5
2.5°	9068.0	9147.4	9080.2	9110.8	9147.4	9129.1	9116.9	9031.3	9061.8	9025.2
5°	9385.9	9440.9	9398.1	9392.0	9355.3	9349.2	9312.5	9178.0	9239.2	9153.6
7.5°	9661.1	9716.1	9661.1	9679.4	9691.6	9655.0	9624.4	9477.6	9489.9	9434.8
10°	9862.9	9948.5	9887.3	10009.6	10009.6	10058.5	10015.7	9801.7	9807.8	9740.6
12.5°	9997.4	10101.3	10076.9	10278.6	10382.6	10407.1	10456.0	10272.5	10260.3	10131.9
15°	9899.5	9917.9	10046.3	10358.1	10718.9	10890.1	10975.7	10761.7	10773.9	10627.2
17.5°	9587.7	9648.8	9771.1	10315.3	10773.9	11281.4	11452.7	11330.4	11305.9	11140.8
20°	9245.3	9257.5	9459.3	10083.0	10792.3	11519.9	12027.4	11929.6	11923.5	11819.5
22.5°	8817.3	8823.4	9104.6	9795.6	10737.2	11630.0	12541.1	12669.5	12583.9	12486.0
25°	8285.3	8352.5	8682.7	9459.3	10547.7	11746.2	12840.7	13262.6	13232.0	13140.3
27.5°	7783.9	7832.8	8193.6	8982.4	10144.1	11574.9	13274.8	14014.7	13935.2	13788.4
30°	7331.4	7410.9	7783.9	8493.2	9642.7	11360.9	13562.2	14632.2	14724.0	14558.9
32.5°	6842.2	6940.1	7331.4	8065.2	9178.0	11159.2	13806.8	15359.9	15586.1	15396.6
35°	6353.1	6426.4	6817.8	7606.6	8841.7	10712.8	13855.7	16301.5	16582.8	16478.9
37.5°	5925.1	5992.3	6377.5	7129.6	8389.2	10382.6	13745.6	17084.2	17591.7	17873.0
40°	5448.1	5533.7	5912.8	6671.0	7790.0	9893.4	13611.1	17958.6	18686.2	19059.2
42.5°	4916.1	5032.3	5399.2	6181.9	7325.3	9288.1	13207.5	18545.6	19676.8	20337.2
45°	4353.6	4439.2	4836.7	5558.2	6775.0	8584.9	12638.9	19261.0	20740.7	21963.7
47.5°	3674.9	3729.9	4133.5	4891.7	6004.5	7857.3	11917.4	19811.3	21933.1	23467.8
50°	2935.0	2990.0	3314.1	4078.4	5160.7	6952.3	10810.6	20043.7	22770.8	24923.1
52.5°	2293.0	2335.8	2592.6	3167.4	4194.6	5918.9	9514.3	19988.6	23302.8	26433.4
55°	1785.5	1822.2	2005.6	2439.7	3216.3	4696.0	8156.9	18979.7	23467.8	27491.3
57.5°	1534.8	1553.1	1638.7	1889.4	2464.2	3558.7	6432.6	17206.5	22654.6	28206.7
60°	1351.3	1357.4	1424.7	1595.9	1907.8	2647.6	4702.1	14375.4	20630.7	27754.2
62.5°	1259.6	1265.7	1302.4	1418.6	1577.6	1999.5	3332.5	11043.0	17041.4	25889.2
65°	1180.1	1186.2	1216.8	1290.2	1357.4	1602.0	2452.0	7282.5	12278.1	21095.4
67.5°	1076.2	1088.4	1119.0	1180.1	1235.1	1333.0	1865.0	4696.0	7728.9	14571.1
69°	1008.9	1021.1	1051.7	1100.6	1149.5	1241.3	1614.3	3748.3	5833.3	10712.8
70°	960.0	972.2	1008.9	1057.8	1100.6	1186.2	1485.8	3326.3	4983.4	8719.4
72.5°	837.7	849.9	874.4	923.3	972.2	1033.4	1198.5	2378.6	3387.5	5356.4
75°	715.4	721.5	739.9	788.8	837.7	886.6	1008.9	1681.5	2250.2	3289.7
77.5°	556.4	562.5	587.0	642.0	672.6	739.9	856.0	1167.9	1473.6	1913.9
80°	403.6	421.9	452.5	501.4	519.7	556.4	660.4	837.7	972.2	1174.0
82.5°	275.2	287.4	318.0	360.8	373.0	373.0	470.8	617.6	691.0	764.3
85°	159.0	165.1	159.0	183.4	214.0	220.1	305.7	373.0	428.0	495.3
87.5°	48.9	48.9	48.9	61.1	73.4	79.5	134.5	171.2	214.0	256.8
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°
8988.5	0°	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5
9031.3	2.5°	9006.8	9080.2	8994.6	8988.5	8982.4	8939.5	8970.1	8964.0	9031.3
9190.2	5°	9135.2	9135.2	9086.3	9123.0	9110.8	8970.1	9098.5	9098.5	9165.8
9392.0	7.5°	9318.7	9330.9	9306.4	9288.1	9263.6	9159.7	9239.2	9226.9	9282.0
9765.0	10°	9673.3	9661.1	9551.0	9551.0	9526.6	9416.5	9465.4	9502.1	9606.0
10125.8	12.5°	10058.5	9979.0	9991.3	9948.5	9869.0	9679.4	9752.8	9758.9	9862.9
10633.3	15°	10480.4	10394.8	10358.1	10321.5	10242.0	10064.6	10168.6	10107.4	10180.8
11098.0	17.5°	11049.1	10939.0	10810.6	10712.8	10596.6	10456.0	10504.9	10553.8	10602.7
11703.4	20°	11678.9	11501.6	11354.8	11195.8	11098.0	10920.7	10981.8	10987.9	11043.0
12339.3	22.5°	12180.3	12027.4	11862.3	11746.2	11544.4	11367.0	11299.8	11312.0	11409.8
12993.5	25°	12834.6	12559.4	12394.3	12204.7	12027.4	11721.7	11691.1	11703.4	11862.3
13727.3	27.5°	13403.2	13177.0	12901.8	12614.4	12357.6	12113.0	12076.3	12033.5	12223.1
14399.9	30°	14143.1	13806.8	13366.5	13091.4	12663.3	12320.9	12272.0	12314.8	12424.9
15384.3	32.5°	14938.0	14583.3	14118.6	13764.0	13244.2	12846.8	12791.7	12834.6	13036.3
16399.4	35°	16105.9	15720.6	15158.1	14613.9	14118.6	13684.5	13653.9	13586.6	13855.7
17793.5	37.5°	17506.1	16992.5	16460.5	15855.2	15329.3	14717.8	14540.5	14595.6	14815.7
19144.8	40°	19083.7	18594.5	17928.0	17237.1	16595.0	15946.9	15690.1	15653.4	16038.6
20905.8	42.5°	20905.8	20569.5	19597.3	18777.9	17934.1	17120.9	16815.2	16833.5	17188.1
22868.6	45°	23033.7	22783.0	21920.9	20893.6	19903.0	18869.7	18667.9	18680.1	19157.1
24641.9	47.5°	25546.8	25705.8	24892.5	23810.3	22587.3	21340.0	20850.8	20728.5	21260.5
26849.2	50°	28090.5	29093.3	28481.8	27448.5	26005.4	24531.8	23902.0	23681.9	24446.2
29038.3	52.5°	31068.3	32682.6	32872.1	32077.2	30456.8	28396.2	27699.2	27472.9	28445.1
31245.6	55°	34156.2	36620.4	37543.7	37653.7	35721.5	33459.1	32144.5	31881.5	33404.1
33177.8	57.5°	37274.6	40998.4	42887.8	44006.8	42386.4	39445.3	37574.2	37293.0	39989.5
34718.7	60°	40478.7	45529.3	48562.2	51387.1	50451.6	47186.4	44294.2	44306.4	47999.6
35379.1	62.5°	42820.6	49173.6	54004.2	58559.6	59403.4	57128.7	53466.1	53093.1	57000.3
33410.2	65°	44067.9	52616.2	58547.3	63952.6	66893.8	66783.7	63799.8	63469.6	66343.4
27711.4	67.5°	42203.0	52744.6	60179.9	65560.8	70953.9	73931.7	73552.6	74121.2	72433.6
21957.5	69°	38228.5	50476.0	58724.6	64741.4	70189.5	75221.8	76940.1	77355.8	72708.7
18172.6	70°	33862.7	47657.2	56297.2	62106.0	67107.8	73363.0	77044.0	77172.4	70275.1
10235.8	72.5°	21132.1	35721.5	44220.8	49772.9	52873.0	58798.0	64998.2	64894.3	55594.0
5723.3	75°	11098.0	20581.8	27509.6	30328.4	32065.0	35110.1	39304.7	38778.8	33416.3
2928.9	77.5°	4940.6	8743.9	11146.9	12742.8	13189.2	14075.8	14491.6	14149.2	13433.8
1577.6	80°	2396.9	3619.8	4708.2	4977.3	4659.3	4439.2	4543.2	4494.2	4916.1
911.1	82.5°	1192.3	1663.2	1877.2	2250.2	3314.1	4072.3	4188.5	4139.6	3711.6
550.3	85°	635.9	764.3	880.5	1614.3	2965.6	3717.7	3827.7	3809.4	3430.3
299.6	87.5°	354.6	440.3	635.9	1290.2	1791.6	1895.5	1999.5	1938.3	1993.4
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°
8988.5	8988.5	0°	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5	8988.5
9012.9	9092.4	2.5°	9043.5	9092.4	9116.9	9025.2	9080.2	9031.3	9043.5
9153.6	9257.5	5°	9196.4	9312.5	9294.2	9294.2	9306.4	9233.1	9263.6
9282.0	9434.8	7.5°	9502.1	9544.9	9642.7	9606.0	9569.4	9496.0	9508.2
9630.5	9777.3	10°	9917.9	9917.9	9979.0	9917.9	9801.7	9752.8	9740.6
9985.1	10260.3	12.5°	10321.5	10260.3	10297.0	10119.7	9985.1	9887.3	9936.2
10303.1	10621.1	15°	10682.2	10670.0	10535.5	10309.2	9979.0	9801.7	9813.9
10853.4	11134.7	17.5°	11220.3	11110.2	10755.6	10168.6	9758.9	9587.7	9502.1
11367.0	11691.1	20°	11752.3	11446.5	10731.1	9942.3	9398.1	9116.9	9123.0
11801.2	12265.9	22.5°	12217.0	11574.9	10645.5	9655.0	9068.0	8688.9	8682.7
12412.6	12865.1	25°	12663.3	11501.6	10474.3	9392.0	8701.1	8334.2	8285.3
12950.7	13537.7	27.5°	13011.9	11434.3	10058.5	8970.1	8199.7	7900.1	7869.5
13439.9	14277.6	30°	13232.0	11287.6	9685.5	8474.8	7735.0	7441.5	7429.2
14338.7	14907.4	32.5°	13482.7	11061.3	9196.4	8034.6	7325.3	7007.3	6989.0
15396.6	15836.8	35°	13715.1	10718.9	8798.9	7618.8	6897.3	6524.3	6469.3
16686.8	16888.5	37.5°	13764.0	10339.8	8303.6	7123.5	6365.3	6004.5	5998.4
18331.6	17799.6	40°	13770.1	9881.2	7777.8	6628.2	5845.6	5478.7	5454.2
20110.9	18570.0	42.5°	13525.5	9355.3	7251.9	6041.2	5307.5	4873.3	4842.8
22232.7	19511.7	45°	12963.0	8725.5	6579.3	5393.1	4714.4	4310.8	4261.9
24739.7	20361.6	47.5°	12210.9	7936.8	5900.6	4732.7	4041.8	3674.9	3644.3
27472.9	20911.9	50°	11195.8	7050.1	5081.2	4017.3	3363.0	3063.4	2990.0
30664.7	20985.3	52.5°	9936.2	6035.1	4225.2	3271.3	2739.3	2476.4	2433.6
34150.1	20373.9	55°	8432.0	4940.6	3375.3	2610.9	2127.9	1926.1	1889.4
37372.5	18826.9	57.5°	6756.6	3803.3	2598.7	2017.8	1706.0	1565.3	1522.5
40955.6	15946.9	60°	5050.7	2867.7	1993.4	1602.0	1394.1	1296.3	1278.0
44153.5	12388.2	62.5°	3632.1	2158.5	1565.3	1339.1	1222.9	1174.0	1161.8
45957.4	8322.0	65°	2672.1	1663.2	1302.4	1210.7	1125.1	1082.3	1063.9
45651.6	5448.1	67.5°	1987.2	1333.0	1155.7	1100.6	1039.5	996.7	984.5
42783.9	4341.4	69°	1675.4	1204.6	1082.3	1027.3	972.2	935.5	917.2
39384.2	3693.2	70°	1516.4	1137.3	1045.6	990.6	929.4	898.8	880.5
26421.2	2482.5	72.5°	1192.3	984.5	929.4	868.3	825.5	788.8	782.7
13880.1	1754.9	75°	984.5	843.8	801.0	752.1	709.3	672.6	672.6
6047.3	1259.6	77.5°	825.5	697.1	660.4	611.5	568.7	532.0	525.9
2904.4	911.1	80°	642.0	532.0	507.5	489.2	440.3	385.2	379.1
1534.8	654.3	82.5°	458.6	360.8	354.6	342.4	299.6	269.0	256.8
831.6	391.3	85°	287.4	207.9	189.6	165.1	146.8	146.8	146.8
403.6	171.2	87.5°	110.1	61.1	61.1	48.9	36.7	36.7	36.7
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)