

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: P628127

Luminaire Tested: **EPH-VN-04-E-735-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628127
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-735-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35013 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

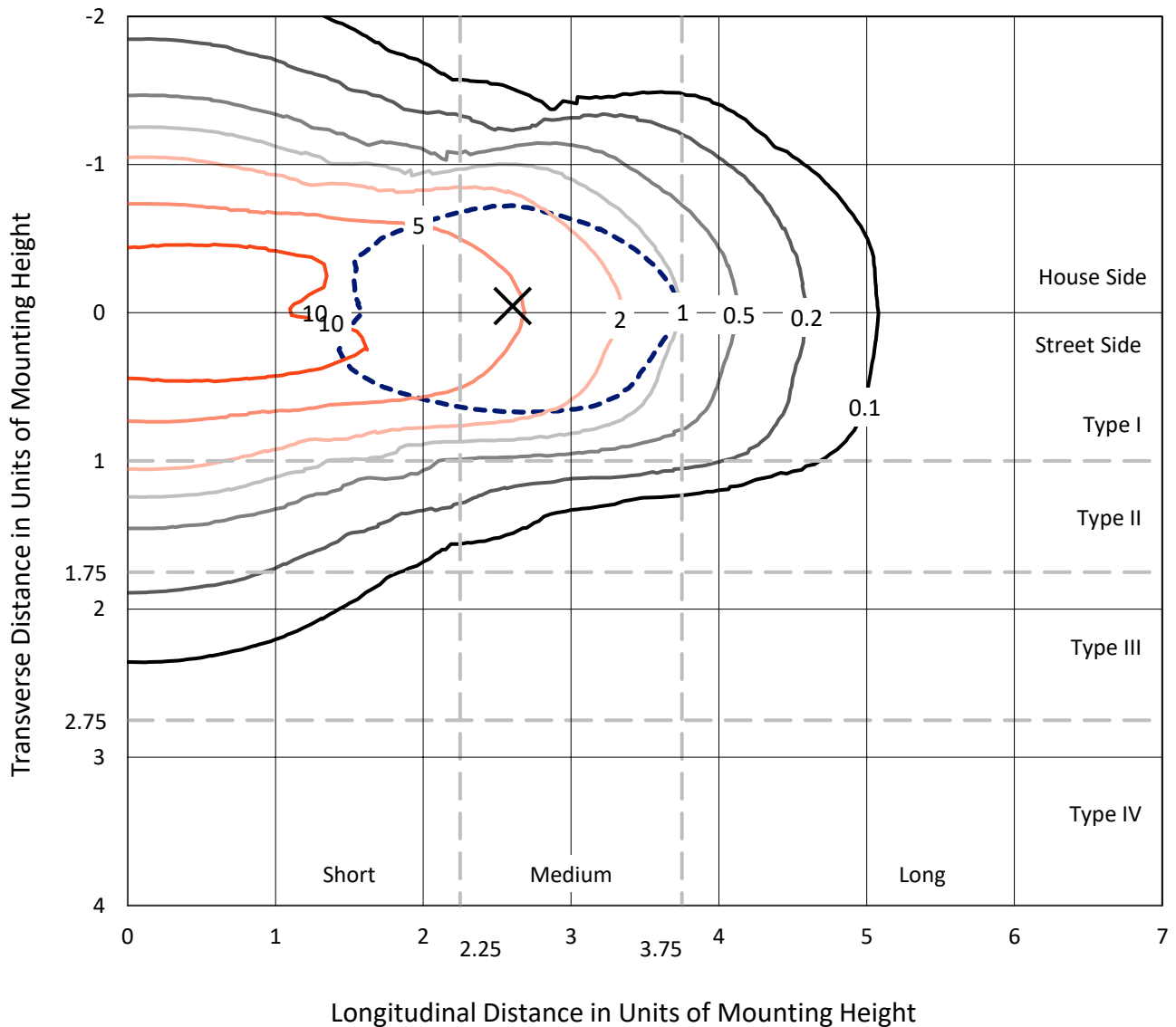
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

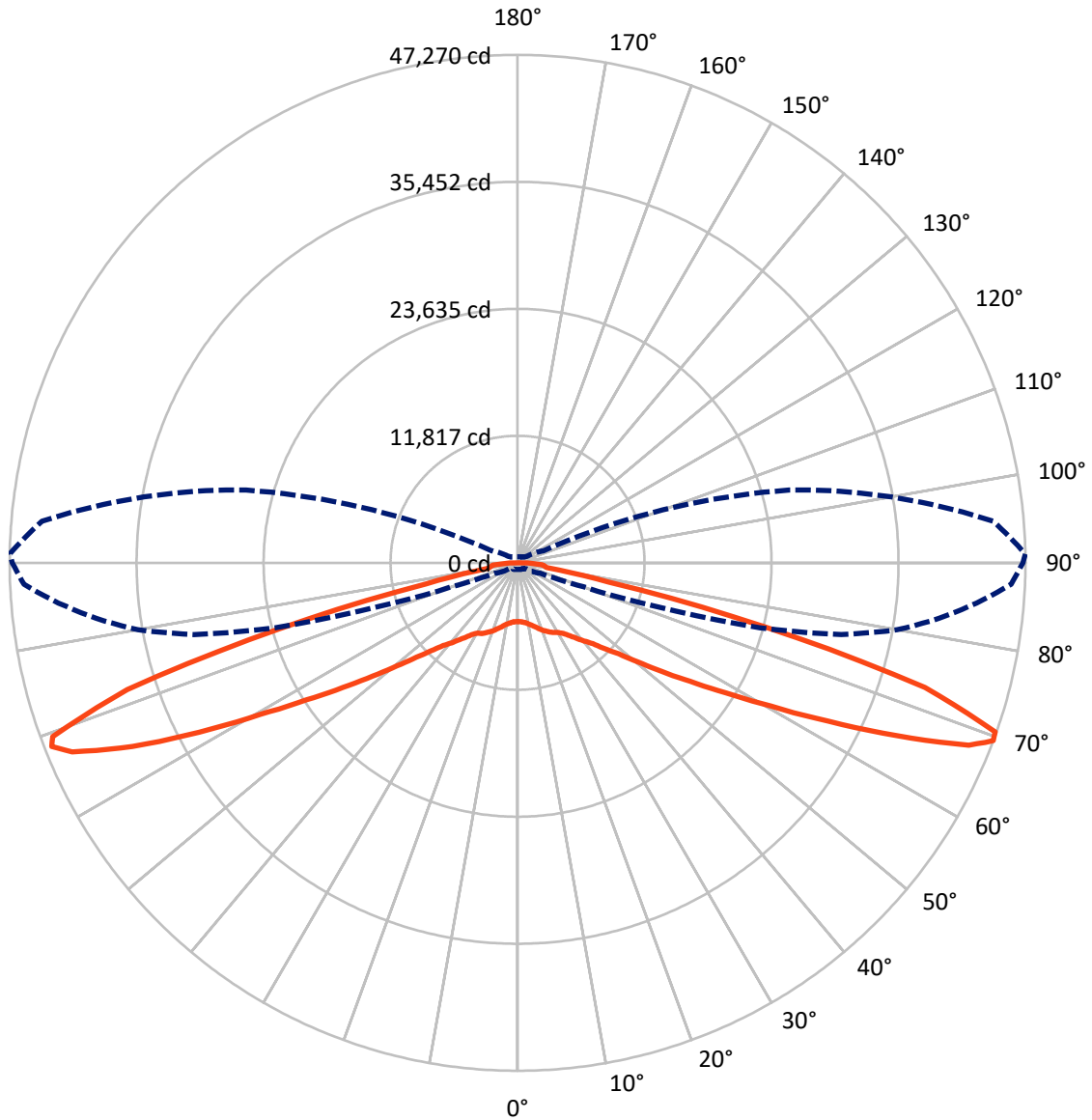
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.9 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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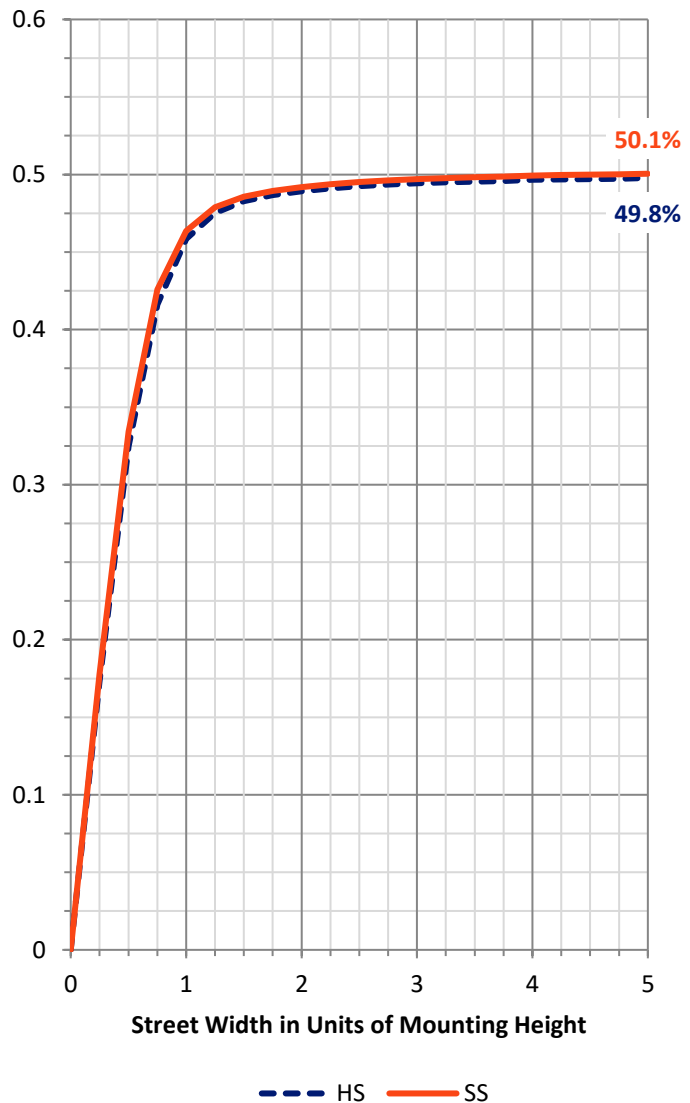
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17553.6	0.0	17553.6
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	17459.4	0.0	17459.4
	% Fixture	49.9	0.0	49.9
Total	Lumens	35013.0	0.0	35013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	1.6
10°-20°	1806.0	5.2
20°-30°	3097.1	8.8
30°-40°	4278.5	12.2
40°-50°	5500.9	15.7
50°-60°	6844.3	19.5
60°-70°	8394.3	24.0
70°-80°	4140.9	11.8
80°-90°	399.4	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°	35013.0	100.0
0°-180°	35013.0	100.0

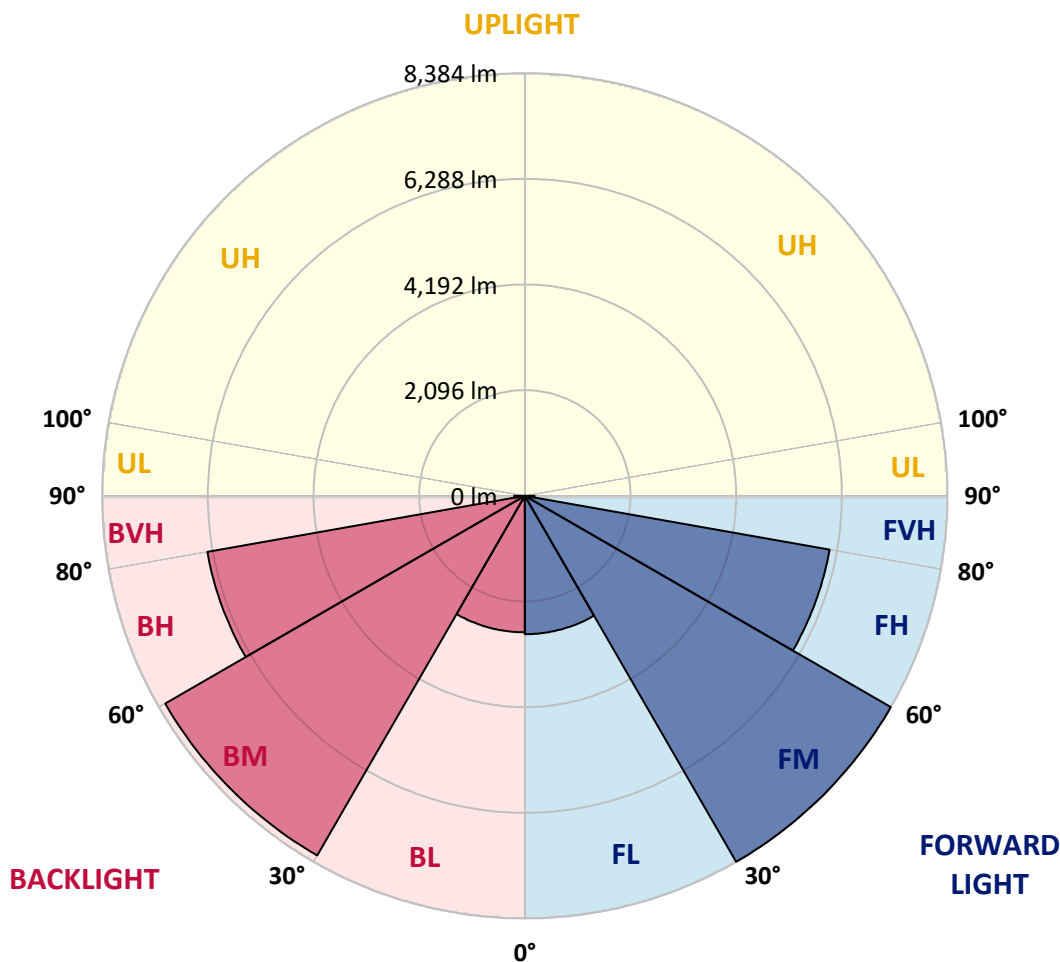


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.6	7.8			
FM (30°-60°)	8384.5	23.9			
FH (60°-80°)	6139.9	17.5			G3/7500
FVH (80°-90°)	189.4	0.5			G2/225
BL (0°-30°)	2709.1	7.7	B4/5000		
BM (30°-60°)	8239.2	23.5	B4/8500		
BH (60°-80°)	6395.3	18.3	B5		G5
BVH (80°-90°)	210.0	0.6			G2/225
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°	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5
2.5°	5541.1	5589.7	5548.6	5567.3	5589.7	5578.5	5571.0	5518.7	5537.4	5515.0
5°	5735.4	5769.0	5742.9	5739.1	5716.7	5713.0	5690.6	5608.4	5645.7	5593.4
7.5°	5903.5	5937.2	5903.5	5914.8	5922.2	5899.8	5881.1	5791.5	5798.9	5765.3
10°	6026.8	6079.2	6041.8	6116.5	6116.5	6146.4	6120.3	5989.5	5993.2	5952.1
12.5°	6109.0	6172.6	6157.6	6280.9	6344.4	6359.4	6389.3	6277.2	6269.7	6191.3
15°	6049.3	6060.5	6138.9	6329.5	6549.9	6654.6	6706.9	6576.1	6583.6	6493.9
17.5°	5858.7	5896.1	5970.8	6303.3	6583.6	6893.7	6998.3	6923.6	6908.6	6807.8
20°	5649.5	5656.9	5780.2	6161.4	6594.8	7039.4	7349.5	7289.8	7286.0	7222.5
22.5°	5387.9	5391.7	5563.5	5985.7	6561.2	7106.7	7663.4	7741.9	7689.6	7629.8
25°	5062.9	5104.0	5305.7	5780.2	6445.3	7177.7	7846.5	8104.3	8085.6	8029.6
27.5°	4756.5	4786.4	5006.8	5488.8	6198.7	7073.0	8111.8	8563.9	8515.3	8425.6
30°	4480.0	4528.5	4756.5	5189.9	5892.3	6942.3	8287.4	8941.3	8997.3	8896.4
32.5°	4181.1	4240.8	4480.0	4928.3	5608.4	6819.0	8436.8	9385.9	9524.1	9408.3
35°	3882.1	3927.0	4166.1	4648.1	5402.9	6546.2	8466.7	9961.3	10133.2	10069.7
37.5°	3620.6	3661.7	3897.1	4356.7	5126.4	6344.4	8399.5	10439.6	10749.7	10921.6
40°	3329.2	3381.5	3613.1	4076.4	4760.2	6045.5	8317.3	10973.9	11418.5	11646.4
42.5°	3004.1	3075.1	3299.3	3777.5	4476.2	5675.6	8070.7	11332.6	12023.8	12427.3
45°	2660.3	2712.6	2955.5	3396.4	4140.0	5245.9	7723.2	11769.7	12673.9	13421.2
47.5°	2245.6	2279.2	2525.8	2989.1	3669.2	4801.3	7282.3	12106.0	13402.5	14340.4
50°	1793.5	1827.1	2025.1	2492.2	3153.5	4248.3	6606.0	12248.0	13914.4	15229.7
52.5°	1401.2	1427.3	1584.2	1935.5	2563.2	3616.9	5813.9	12214.4	14239.5	16152.6
55°	1091.0	1113.5	1225.5	1490.8	1965.4	2869.6	4984.4	11597.9	14340.4	16799.0
57.5°	937.8	949.1	1001.4	1154.6	1505.8	2174.6	3930.7	10514.3	13843.4	17236.1
60°	825.7	829.5	870.6	975.2	1165.8	1617.9	2873.3	8784.3	12606.7	16959.6
62.5°	769.7	773.4	795.9	866.8	964.0	1221.8	2036.3	6748.0	10413.4	15820.0
65°	721.1	724.9	743.5	788.4	829.5	978.9	1498.3	4450.1	7502.7	12890.7
67.5°	657.6	665.1	683.8	721.1	754.8	814.5	1139.6	2869.6	4722.8	8903.9
69°	616.5	624.0	642.7	672.6	702.4	758.5	986.4	2290.4	3564.5	6546.2
70°	586.6	594.1	616.5	646.4	672.6	724.9	908.0	2032.6	3045.2	5328.1
72.5°	511.9	519.4	534.3	564.2	594.1	631.5	732.3	1453.5	2070.0	3273.1
75°	437.2	440.9	452.1	482.0	511.9	541.8	616.5	1027.5	1375.0	2010.2
77.5°	340.0	343.8	358.7	392.3	411.0	452.1	523.1	713.7	900.5	1169.5
80°	246.6	257.8	276.5	306.4	317.6	340.0	403.5	511.9	594.1	717.4
82.5°	168.1	175.6	194.3	220.4	227.9	227.9	287.7	377.4	422.2	467.1
85°	97.1	100.9	97.1	112.1	130.8	134.5	186.8	227.9	261.5	302.7
87.5°	29.9	29.9	29.9	37.4	44.8	48.6	82.2	104.6	130.8	156.9
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°
5492.5	0°	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5
5518.7	2.5°	5503.7	5548.6	5496.3	5492.5	5488.8	5462.6	5481.3	5477.6	5518.7
5615.8	5°	5582.2	5582.2	5552.3	5574.7	5567.3	5481.3	5559.8	5559.8	5600.9
5739.1	7.5°	5694.3	5701.8	5686.8	5675.6	5660.7	5597.2	5645.7	5638.3	5671.9
5967.1	10°	5911.0	5903.5	5836.3	5836.3	5821.3	5754.1	5784.0	5806.4	5869.9
6187.5	12.5°	6146.4	6097.8	6105.3	6079.2	6030.6	5914.8	5959.6	5963.3	6026.8
6497.6	15°	6404.2	6351.9	6329.5	6307.1	6258.5	6150.2	6213.7	6176.3	6221.1
6781.6	17.5°	6751.7	6684.5	6606.0	6546.2	6475.2	6389.3	6419.2	6449.1	6479.0
7151.5	20°	7136.6	7028.2	6938.5	6841.4	6781.6	6673.2	6710.6	6714.4	6748.0
7540.1	22.5°	7443.0	7349.5	7248.7	7177.7	7054.4	6946.0	6904.9	6912.4	6972.2
7939.9	25°	7842.7	7674.6	7573.7	7457.9	7349.5	7162.7	7144.0	7151.5	7248.7
8388.3	27.5°	8190.2	8052.0	7883.9	7708.2	7551.3	7401.9	7379.4	7353.3	7469.1
8799.3	30°	8642.3	8436.8	8167.8	7999.7	7738.1	7528.9	7499.0	7525.2	7592.4
9400.8	32.5°	9128.1	8911.4	8627.4	8410.7	8093.1	7850.2	7816.6	7842.7	7966.1
10021.1	35°	9841.7	9606.3	9262.6	8930.0	8627.4	8362.1	8343.4	8302.3	8466.7
10873.0	37.5°	10697.4	10383.5	10058.4	9688.5	9367.2	8993.6	8885.2	8918.8	9053.4
11698.7	40°	11661.4	11362.5	10955.2	10533.0	10140.6	9744.6	9587.7	9565.2	9800.6
12774.8	42.5°	12774.8	12569.3	11975.2	11474.6	10958.9	10462.0	10275.2	10286.4	10503.1
13974.2	45°	14075.1	13921.9	13395.1	12767.4	12162.1	11530.6	11407.3	11414.8	11706.2
15057.8	47.5°	15610.8	15707.9	15211.0	14549.6	13802.3	13040.1	12741.2	12666.5	12991.5
16406.6	50°	17165.1	17777.9	17404.3	16772.8	15891.0	14990.5	14605.7	14471.2	14938.2
17744.3	52.5°	18984.8	19971.2	20087.0	19601.3	18611.1	17351.9	16926.0	16787.7	17381.8
19093.1	55°	20871.7	22377.4	22941.6	23008.9	21828.2	20445.7	19642.4	19481.7	20412.1
20273.8	57.5°	22777.2	25052.7	26207.3	26891.0	25900.9	24103.7	22960.3	22788.4	24436.2
21215.4	60°	24735.1	27821.4	29674.7	31400.9	30829.2	28834.0	27066.6	27074.1	29330.9
21618.9	62.5°	26166.2	30048.3	33000.1	35783.7	36299.3	34909.4	32671.3	32443.4	34830.9
20415.8	65°	26928.4	32151.9	35776.2	39079.2	40876.5	40809.2	38985.8	38784.1	40540.2
16933.5	67.5°	25788.8	32230.4	36773.9	40061.9	43357.4	45177.1	44945.4	45292.9	44261.7
13417.5	69°	23360.1	30844.2	35884.6	39561.2	42890.4	45965.5	47015.4	47269.5	44429.8
11104.6	70°	20692.3	29121.7	34401.2	37950.8	41007.2	44829.6	47078.9	47157.4	42942.7
6254.8	72.5°	12913.1	21828.2	27021.8	30414.5	32308.8	35929.4	39718.2	39654.6	33971.5
3497.3	75°	6781.6	12576.8	16810.2	18532.7	19593.8	21454.5	24017.7	23696.4	20419.5
1789.7	77.5°	3019.0	5343.1	6811.5	7786.7	8059.5	8601.2	8855.3	8646.1	8208.9
964.0	80°	1464.7	2212.0	2877.0	3041.4	2847.2	2712.6	2776.2	2746.3	3004.1
556.7	82.5°	728.6	1016.3	1147.1	1375.0	2025.1	2488.5	2559.4	2529.6	2268.0
336.3	85°	388.6	467.1	538.0	986.4	1812.2	2271.7	2339.0	2327.8	2096.1
183.1	87.5°	216.7	269.0	388.6	788.4	1094.8	1158.3	1221.8	1184.4	1218.1
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°
5492.5	5492.5	0°	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5	5492.5
5507.5	5556.1	2.5°	5526.2	5556.1	5571.0	5515.0	5548.6	5518.7	5526.2
5593.4	5656.9	5°	5619.6	5690.6	5679.4	5679.4	5686.8	5642.0	5660.7
5671.9	5765.3	7.5°	5806.4	5832.6	5892.3	5869.9	5847.5	5802.7	5810.1
5884.9	5974.5	10°	6060.5	6060.5	6097.8	6060.5	5989.5	5959.6	5952.1
6101.6	6269.7	12.5°	6307.1	6269.7	6292.1	6183.8	6101.6	6041.8	6071.7
6295.9	6490.2	15°	6527.5	6520.1	6437.9	6299.6	6097.8	5989.5	5997.0
6632.1	6804.0	17.5°	6856.3	6789.1	6572.4	6213.7	5963.3	5858.7	5806.4
6946.0	7144.0	20°	7181.4	6994.6	6557.4	6075.4	5742.9	5571.0	5574.7
7211.3	7495.3	22.5°	7465.4	7073.0	6505.1	5899.8	5541.1	5309.5	5305.7
7584.9	7861.4	25°	7738.1	7028.2	6400.5	5739.1	5316.9	5092.7	5062.9
7913.7	8272.4	27.5°	7951.1	6987.1	6146.4	5481.3	5010.5	4827.5	4808.8
8212.7	8724.5	30°	8085.6	6897.4	5918.5	5178.7	4726.6	4547.2	4539.8
8761.9	9109.4	32.5°	8238.8	6759.2	5619.6	4909.7	4476.2	4281.9	4270.7
9408.3	9677.3	35°	8380.8	6549.9	5376.7	4655.6	4214.7	3986.8	3953.1
10196.7	10320.0	37.5°	8410.7	6318.3	5074.1	4352.9	3889.6	3669.2	3665.4
11201.8	10876.7	40°	8414.4	6038.1	4752.7	4050.3	3572.0	3347.8	3332.9
12289.1	11347.5	42.5°	8265.0	5716.7	4431.4	3691.6	3243.2	2977.9	2959.2
13585.6	11922.9	45°	7921.2	5331.9	4020.4	3295.5	2880.8	2634.2	2604.3
15117.6	12442.3	47.5°	7461.6	4849.9	3605.6	2892.0	2469.8	2245.6	2226.9
16787.7	12778.6	50°	6841.4	4308.1	3105.0	2454.8	2055.0	1871.9	1827.1
18738.2	12823.4	52.5°	6071.7	3687.8	2581.9	1999.0	1673.9	1513.3	1487.1
20867.9	12449.8	55°	5152.5	3019.0	2062.5	1595.5	1300.3	1177.0	1154.6
22837.0	11504.4	57.5°	4128.7	2324.1	1588.0	1233.0	1042.5	956.5	930.4
25026.6	9744.6	60°	3086.3	1752.4	1218.1	978.9	851.9	792.1	780.9
26980.7	7570.0	62.5°	2219.4	1319.0	956.5	818.3	747.3	717.4	709.9
28082.9	5085.3	65°	1632.8	1016.3	795.9	739.8	687.5	661.3	650.1
27896.1	3329.2	67.5°	1214.3	814.5	706.2	672.6	635.2	609.0	601.6
26143.7	2652.9	69°	1023.8	736.1	661.3	627.7	594.1	571.7	560.5
24066.3	2256.8	70°	926.6	695.0	638.9	605.3	567.9	549.3	538.0
16145.1	1517.0	72.5°	728.6	601.6	567.9	530.6	504.4	482.0	478.3
8481.7	1072.4	75°	601.6	515.6	489.5	459.6	433.4	411.0	411.0
3695.3	769.7	77.5°	504.4	426.0	403.5	373.6	347.5	325.1	321.3
1774.8	556.7	80°	392.3	325.1	310.1	298.9	269.0	235.4	231.7
937.8	399.8	82.5°	280.2	220.4	216.7	209.2	183.1	164.4	156.9
508.2	239.1	85°	175.6	127.0	115.8	100.9	89.7	89.7	89.7
246.6	104.6	87.5°	67.3	37.4	37.4	29.9	22.4	22.4	22.4
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)