

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: P628149

Luminaire Tested: **EPH-VN-08-E-760-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-760-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71084.1 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

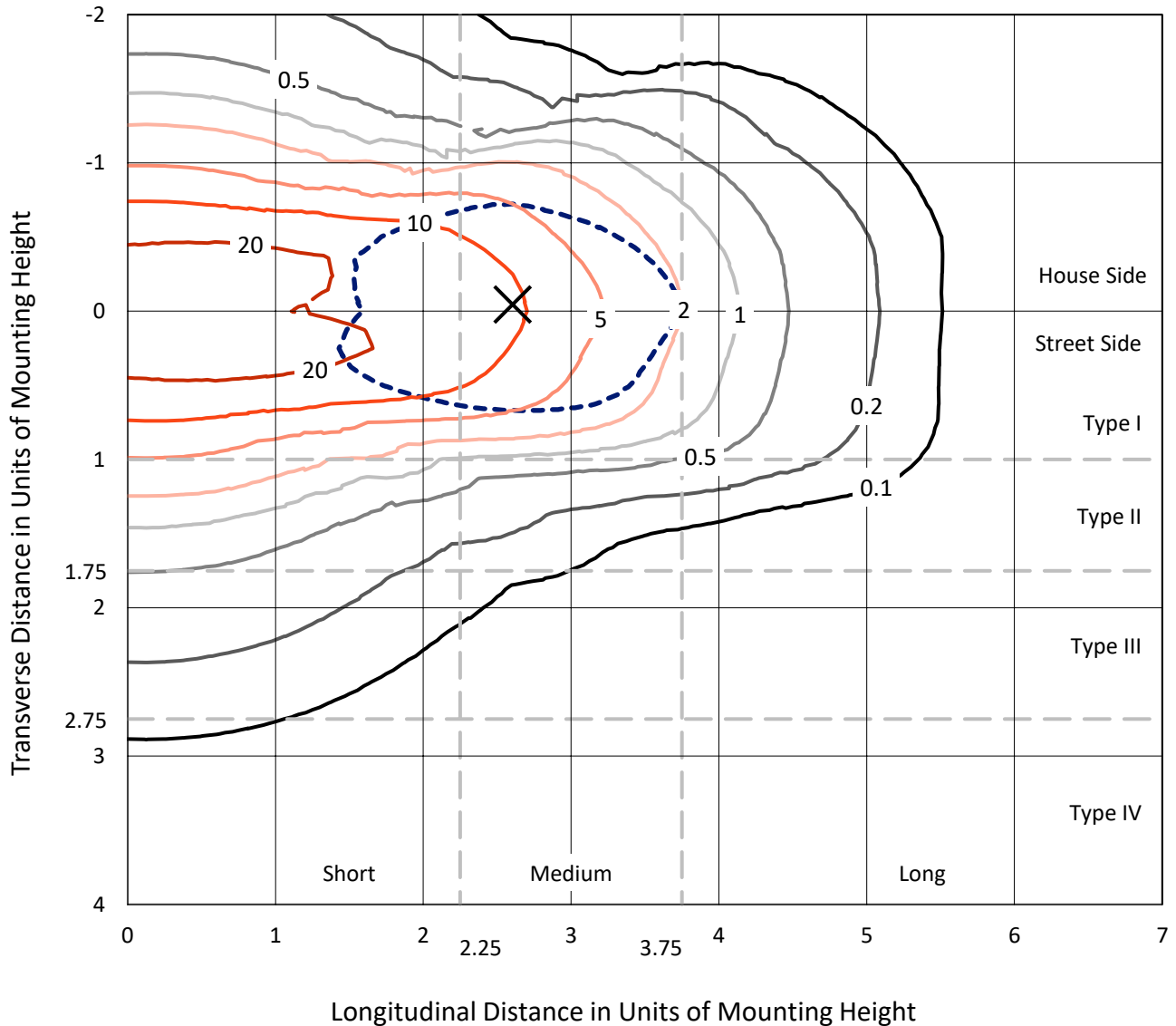
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

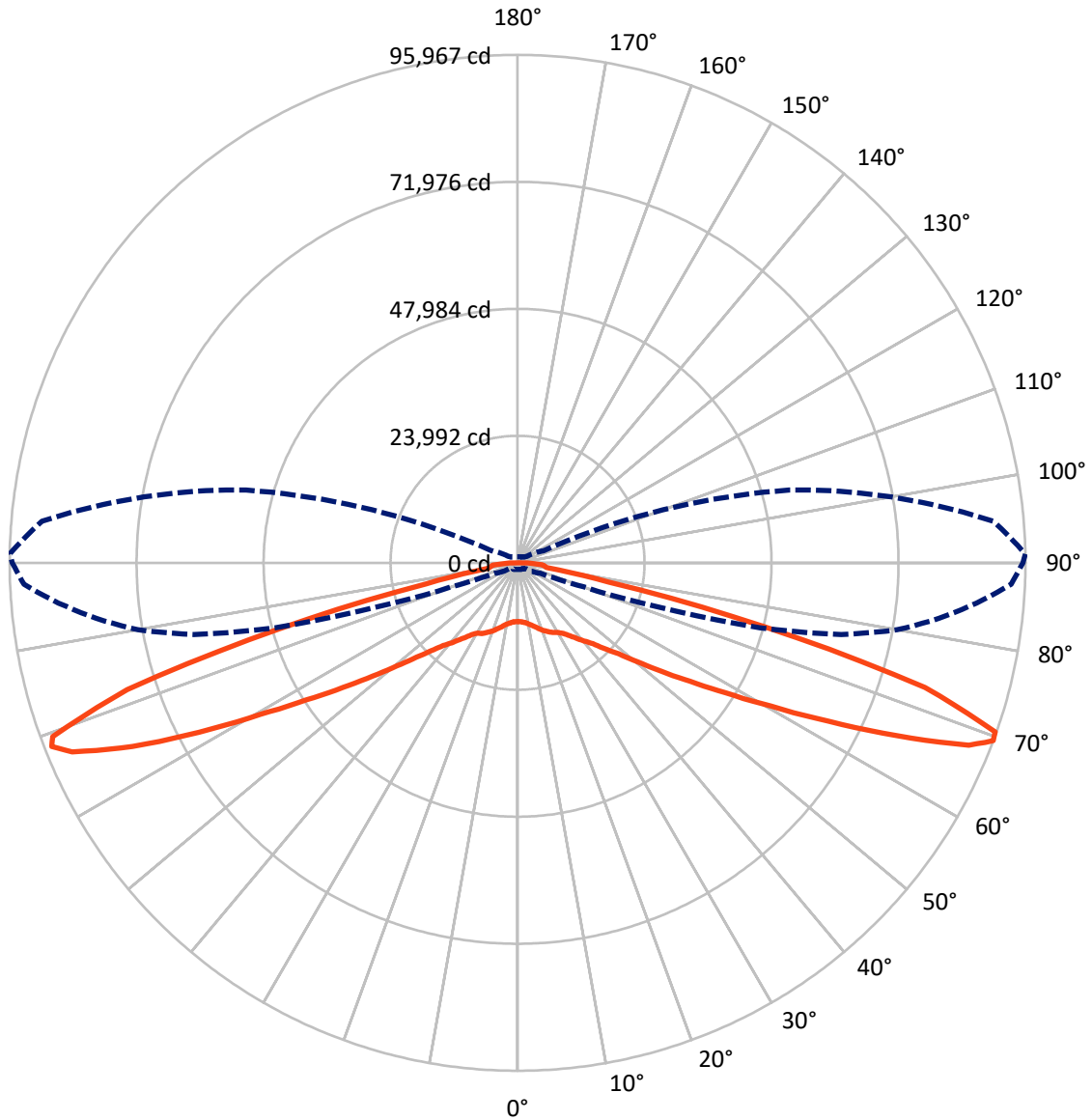
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.3 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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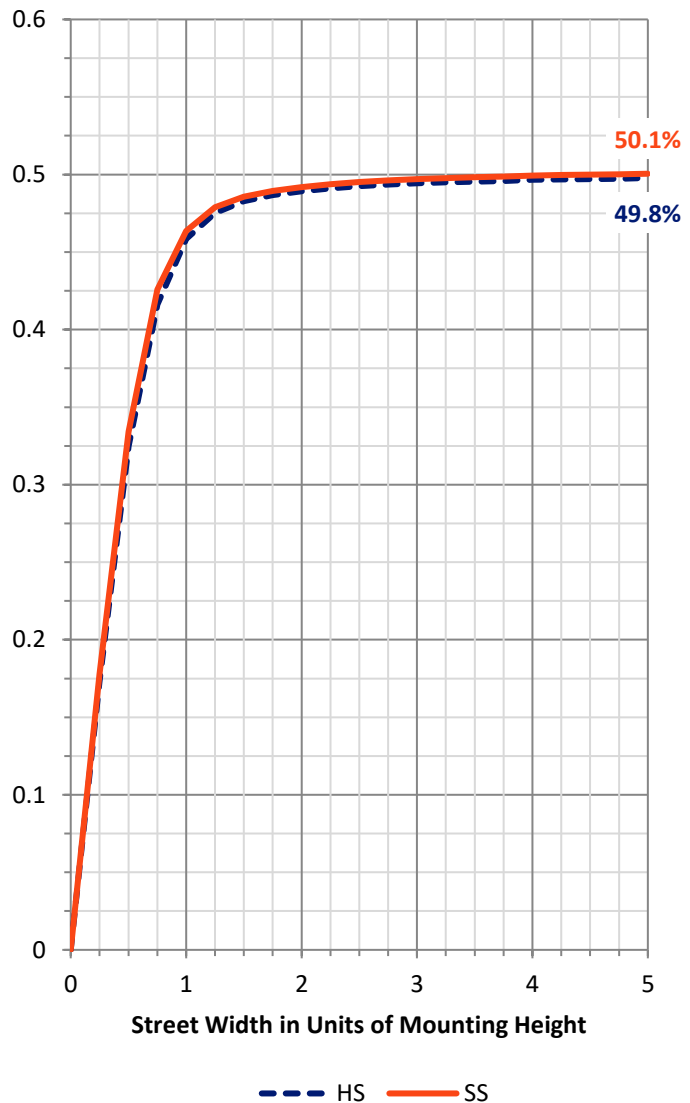
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35637.8	0.0	35637.8
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	35446.4	0.0	35446.4
	% Fixture	49.9	0.0	49.9
Total	Lumens	71084.1	0.0	71084.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.8	1.6
10°-20°	3666.6	5.2
20°-30°	6287.8	8.8
30°-40°	8686.2	12.2
40°-50°	11168.1	15.7
50°-60°	13895.3	19.5
60°-70°	17042.3	24.0
70°-80°	8406.9	11.8
80°-90°	811.0	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°	71084.1	100.0
0°-180°	71084.1	100.0

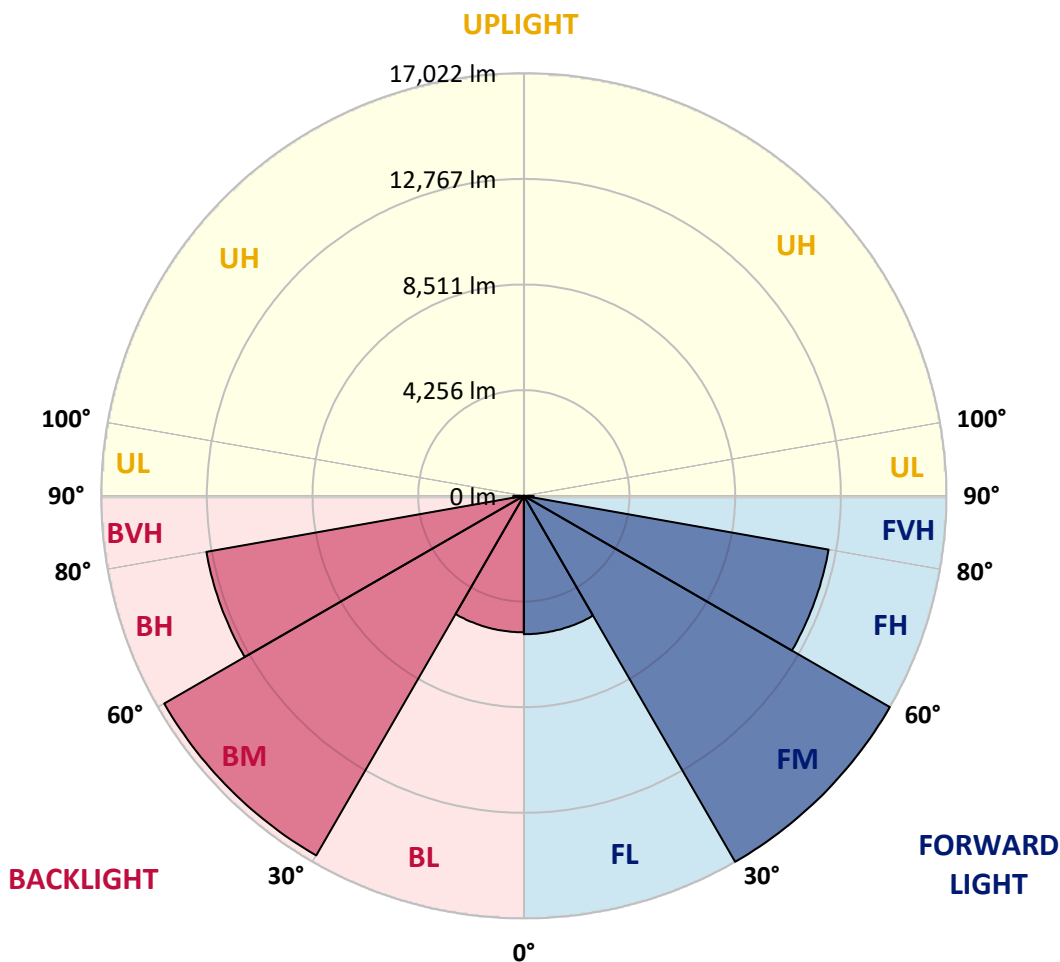


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5574.2	7.8			
FM (30°-60°)	17022.3	23.9			
FH (60°-80°)	12465.3	17.5			G5
FVH (80°-90°)	384.6	0.5			G3/500
BL (0°-30°)	5500.0	7.7	B5		
BM (30°-60°)	16727.4	23.5	B5		
BH (60°-80°)	12983.9	18.3	B5		G5
BVH (80°-90°)	426.4	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°	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1
2.5°	11249.7	11348.3	11264.9	11302.8	11348.3	11325.5	11310.4	11204.2	11242.1	11196.6
5°	11644.1	11712.4	11659.3	11651.7	11606.2	11598.6	11553.1	11386.2	11462.1	11355.9
7.5°	11985.5	12053.8	11985.5	12008.3	12023.4	11977.9	11940.0	11757.9	11773.1	11704.8
10°	12235.8	12342.0	12266.2	12417.9	12417.9	12478.6	12425.5	12160.0	12167.6	12084.1
12.5°	12402.7	12531.7	12501.3	12751.7	12880.6	12911.0	12971.6	12744.1	12728.9	12569.6
15°	12281.3	12304.1	12463.4	12850.3	13297.8	13510.2	13616.4	13350.9	13366.1	13184.0
17.5°	11894.5	11970.3	12122.0	12797.2	13366.1	13995.7	14208.1	14056.4	14026.1	13821.3
20°	11469.7	11484.8	11735.2	12508.9	13388.9	14291.6	14921.2	14799.8	14792.2	14663.3
22.5°	10938.7	10946.2	11295.2	12152.4	13320.6	14428.1	15558.4	15717.7	15611.5	15490.1
25°	10278.7	10362.1	10771.8	11735.2	13085.4	14572.2	15930.1	16453.5	16415.6	16301.8
27.5°	9656.7	9717.4	10164.9	11143.5	12584.8	14359.8	16468.7	17386.6	17287.9	17105.9
30°	9095.3	9193.9	9656.7	10536.6	11962.7	14094.3	16825.2	18152.7	18266.5	18061.7
32.5°	8488.5	8609.8	9095.3	10005.6	11386.2	13844.0	17128.6	19055.4	19336.1	19100.9
35°	7881.6	7972.6	8458.1	9436.7	10969.0	13290.2	17189.3	20223.6	20572.6	20443.6
37.5°	7350.6	7434.0	7911.9	8845.0	10407.7	12880.6	17052.8	21194.6	21824.2	22173.2
40°	6758.9	6865.1	7335.4	8276.1	9664.3	12273.8	16885.9	22279.4	23182.1	23644.8
42.5°	6098.9	6243.1	6698.2	7669.2	9087.7	11522.8	16385.2	23007.6	24411.0	25230.2
45°	5401.1	5507.3	6000.3	6895.5	8405.0	10650.4	15679.8	23895.1	25730.9	27248.0
47.5°	4559.0	4627.3	5128.0	6068.6	7449.2	9747.7	14784.6	24577.9	27210.1	29114.1
50°	3641.2	3709.4	4111.5	5059.7	6402.4	8625.0	13411.6	24866.1	28249.4	30919.6
52.5°	2844.7	2897.8	3216.4	3929.4	5203.8	7343.0	11803.4	24797.8	28909.3	32793.2
55°	2215.0	2260.6	2488.1	3026.7	3990.1	5825.9	10119.4	23546.2	29114.1	34105.6
57.5°	1904.0	1926.8	2033.0	2344.0	3057.1	4414.9	7980.2	21346.3	28105.2	34993.1
60°	1676.5	1684.0	1767.5	1979.9	2366.8	3284.6	5833.4	17834.1	25594.3	34431.8
62.5°	1562.7	1570.3	1615.8	1759.9	1957.1	2480.5	4134.2	13699.9	21141.5	32118.1
65°	1464.1	1471.6	1509.6	1600.6	1684.0	1987.5	3041.9	9034.6	15232.2	26170.9
67.5°	1335.1	1350.3	1388.2	1464.1	1532.3	1653.7	2313.7	5825.9	9588.4	18076.9
69°	1251.7	1266.8	1304.8	1365.4	1426.1	1539.9	2002.6	4650.1	7236.8	13290.2
70°	1191.0	1206.1	1251.7	1312.3	1365.4	1471.6	1843.3	4126.7	6182.4	10817.3
72.5°	1039.2	1054.4	1084.8	1145.4	1206.1	1282.0	1486.8	2950.9	4202.5	6645.1
75°	887.5	895.1	917.9	978.6	1039.2	1099.9	1251.7	2086.1	2791.6	4081.1
77.5°	690.3	697.9	728.2	796.5	834.4	917.9	1062.0	1448.9	1828.2	2374.3
80°	500.7	523.4	561.3	622.0	644.8	690.3	819.3	1039.2	1206.1	1456.5
82.5°	341.4	356.5	394.5	447.6	462.7	462.7	584.1	766.2	857.2	948.2
85°	197.2	204.8	197.2	227.6	265.5	273.1	379.3	462.7	531.0	614.4
87.5°	60.7	60.7	60.7	75.9	91.0	98.6	166.9	212.4	265.5	318.6
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°
11151.1	0°	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1
11204.2	2.5°	11173.8	11264.9	11158.7	11151.1	11143.5	11090.4	11128.3	11120.7	11204.2
11401.4	5°	11333.1	11333.1	11272.4	11318.0	11302.8	11128.3	11287.6	11287.6	11371.1
11651.7	7.5°	11560.7	11575.9	11545.5	11522.8	11492.4	11363.5	11462.1	11446.9	11515.2
12114.5	10°	12000.7	11985.5	11849.0	11849.0	11818.6	11682.1	11742.8	11788.3	11917.2
12562.0	12.5°	12478.6	12380.0	12395.1	12342.0	12243.4	12008.3	12099.3	12106.9	12235.8
13191.6	15°	13002.0	12895.8	12850.3	12804.8	12706.1	12486.2	12615.1	12539.3	12630.3
13768.2	17.5°	13707.5	13570.9	13411.6	13290.2	13146.1	12971.6	13032.3	13093.0	13153.7
14519.1	20°	14488.8	14268.8	14086.8	13889.5	13768.2	13548.2	13624.0	13631.6	13699.9
15308.1	22.5°	15110.8	14921.2	14716.4	14572.2	14321.9	14101.9	14018.5	14033.7	14155.0
16119.7	25°	15922.5	15581.1	15376.3	15141.2	14921.2	14541.9	14504.0	14519.1	14716.4
17030.0	27.5°	16628.0	16347.3	16005.9	15649.4	15330.8	15027.4	14981.9	14928.8	15163.9
17864.5	30°	17545.9	17128.6	16582.5	16241.1	15710.1	15285.3	15224.6	15277.7	15414.3
19085.8	32.5°	18532.0	18092.0	17515.5	17075.5	16430.8	15937.7	15869.4	15922.5	16172.8
20345.0	35°	19980.9	19503.0	18805.1	18130.0	17515.5	16976.9	16939.0	16855.6	17189.3
22074.6	37.5°	21718.0	21080.8	20420.9	19669.9	19017.5	18258.9	18038.9	18107.2	18380.3
23751.0	40°	23675.2	23068.3	22241.4	21384.3	20587.7	19783.7	19465.1	19419.5	19897.4
25935.7	42.5°	25935.7	25518.5	24312.4	23295.9	22249.0	21240.1	20860.8	20883.6	21323.6
28370.7	45°	28575.6	28264.5	27194.9	25920.5	24691.6	23409.7	23159.3	23174.5	23766.2
30570.6	47.5°	31693.3	31890.5	30881.6	29538.9	28021.8	26474.3	25867.4	25715.7	26375.7
33309.1	50°	34849.0	36093.0	35334.5	34052.5	32262.2	30434.1	29652.7	29379.6	30327.9
36024.8	52.5°	38543.2	40545.9	40781.0	39794.9	37784.7	35228.3	34363.5	34082.8	35288.9
38763.2	55°	42374.0	45431.1	46576.6	46713.1	44316.0	41509.3	39878.3	39552.1	41441.0
41160.3	57.5°	46242.8	50862.5	53206.5	54594.7	52584.5	48935.7	46614.5	46265.5	49610.9
43071.9	60°	50217.7	56483.6	60246.1	63750.7	62590.1	58539.3	54951.2	54966.4	59548.2
43891.2	62.5°	53123.1	61004.7	66997.4	72648.8	73695.6	70873.7	66329.9	65867.1	70714.4
41448.6	65°	54670.6	65275.5	72633.6	79339.4	82988.2	82851.7	79149.8	78740.2	82305.5
34378.7	67.5°	52356.9	65434.8	74659.0	81334.5	88025.1	91719.4	91249.1	91954.6	89860.9
27240.5	69°	47426.2	62620.4	72853.6	80318.0	87076.9	93320.0	95451.6	95967.4	90202.3
22544.9	70°	42009.9	59123.4	69842.1	77048.5	83253.7	91013.9	95580.6	95739.9	87183.1
12698.6	72.5°	26216.4	44316.0	54860.2	61748.1	65594.1	72944.7	80636.6	80507.7	68969.7
7100.3	75°	13768.2	25533.7	34128.3	37625.4	39779.7	43557.4	48761.3	48108.9	41456.2
3633.6	77.5°	6129.3	10847.6	13828.8	15808.7	16362.5	17462.4	17978.2	17553.4	16665.9
1957.1	80°	2973.6	4490.8	5841.0	6174.8	5780.3	5507.3	5636.2	5575.5	6098.9
1130.3	82.5°	1479.2	2063.3	2328.8	2791.6	4111.5	5052.1	5196.2	5135.6	4604.6
682.7	85°	788.9	948.2	1092.3	2002.6	3679.1	4612.1	4748.7	4725.9	4255.6
371.7	87.5°	440.0	546.2	788.9	1600.6	2222.6	2351.6	2480.5	2404.7	2473.0
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°
11151.1	11151.1	0°	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1	11151.1
11181.4	11280.0	2.5°	11219.3	11280.0	11310.4	11196.6	11264.9	11204.2	11219.3
11355.9	11484.8	5°	11409.0	11553.1	11530.4	11530.4	11545.5	11454.5	11492.4
11515.2	11704.8	7.5°	11788.3	11841.4	11962.7	11917.2	11871.7	11780.7	11795.9
11947.6	12129.6	10°	12304.1	12304.1	12380.0	12304.1	12160.0	12099.3	12084.1
12387.5	12728.9	12.5°	12804.8	12728.9	12774.4	12554.4	12387.5	12266.2	12326.9
12782.0	13176.5	15°	13252.3	13237.1	13070.3	12789.6	12380.0	12160.0	12175.1
13464.7	13813.7	17.5°	13919.9	13783.3	13343.3	12615.1	12106.9	11894.5	11788.3
14101.9	14504.0	20°	14579.8	14200.5	13313.0	12334.4	11659.3	11310.4	11318.0
14640.5	15217.0	22.5°	15156.3	14359.8	13206.8	11977.9	11249.7	10779.4	10771.8
15399.1	15960.4	25°	15710.1	14268.8	12994.4	11651.7	10794.5	10339.4	10278.7
16066.6	16794.9	27.5°	16142.5	14185.4	12478.6	11128.3	10172.5	9800.8	9762.9
16673.5	17712.7	30°	16415.6	14003.3	12015.8	10513.9	9596.0	9231.9	9216.7
17788.6	18494.1	32.5°	16726.6	13722.6	11409.0	9967.7	9087.7	8693.3	8670.5
19100.9	19647.1	35°	17014.9	13297.8	10915.9	9451.9	8556.7	8094.0	8025.7
20701.5	20951.9	37.5°	17075.5	12827.5	10301.5	8837.4	7896.8	7449.2	7441.6
22742.1	22082.1	40°	17083.1	12258.6	9649.1	8223.0	7252.0	6796.8	6766.5
24949.6	23037.9	42.5°	16779.7	11606.2	8996.7	7494.7	6584.4	6045.8	6007.9
27581.8	24206.2	45°	16081.8	10824.9	8162.3	6690.6	5848.6	5348.0	5287.3
30692.0	25260.6	47.5°	15148.8	9846.3	7320.3	5871.4	5014.2	4559.0	4521.1
34082.8	25943.3	50°	13889.5	8746.4	6303.8	4983.8	4172.2	3800.5	3709.4
38042.6	26034.3	52.5°	12326.9	7487.1	5241.8	4058.4	3398.4	3072.2	3019.1
42366.5	25275.7	55°	10460.8	6129.3	4187.3	3239.1	2639.8	2389.5	2344.0
46364.2	23356.5	57.5°	8382.3	4718.3	3223.9	2503.3	2116.4	1942.0	1888.9
50809.4	19783.7	60°	6265.8	3557.7	2473.0	1987.5	1729.6	1608.2	1585.4
54776.8	15368.7	62.5°	4505.9	2677.8	1942.0	1661.3	1517.2	1456.5	1441.3
57014.6	10324.2	65°	3315.0	2063.3	1615.8	1502.0	1395.8	1342.7	1319.9
56635.3	6758.9	67.5°	2465.4	1653.7	1433.7	1365.4	1289.6	1236.5	1221.3
53077.6	5385.9	69°	2078.5	1494.4	1342.7	1274.4	1206.1	1160.6	1137.9
48859.9	4581.8	70°	1881.3	1411.0	1297.2	1228.9	1153.0	1115.1	1092.3
32778.1	3079.8	72.5°	1479.2	1221.3	1153.0	1077.2	1024.1	978.6	971.0
17219.7	2177.1	75°	1221.3	1046.8	993.7	933.0	879.9	834.4	834.4
7502.3	1562.7	77.5°	1024.1	864.8	819.3	758.6	705.5	660.0	652.4
3603.2	1130.3	80°	796.5	660.0	629.6	606.9	546.2	477.9	470.3
1904.0	811.7	82.5°	568.9	447.6	440.0	424.8	371.7	333.8	318.6
1031.7	485.5	85°	356.5	257.9	235.2	204.8	182.1	182.1	182.1
500.7	212.4	87.5°	136.5	75.9	75.9	60.7	45.5	45.5	45.5
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)