

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: P628137

Luminaire Tested: **EPH-VN-08-E-740-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628137
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-740-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69492.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

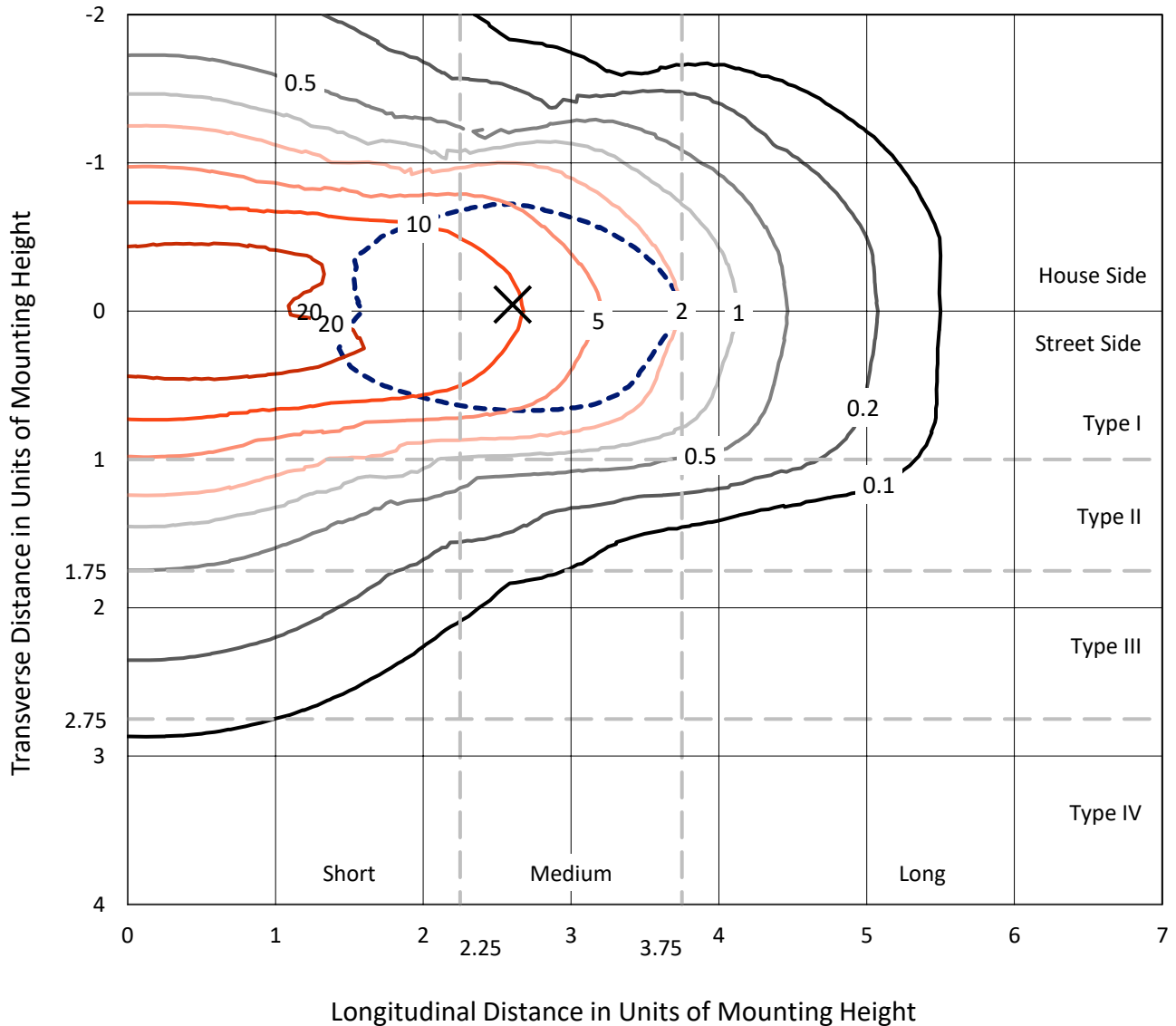
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

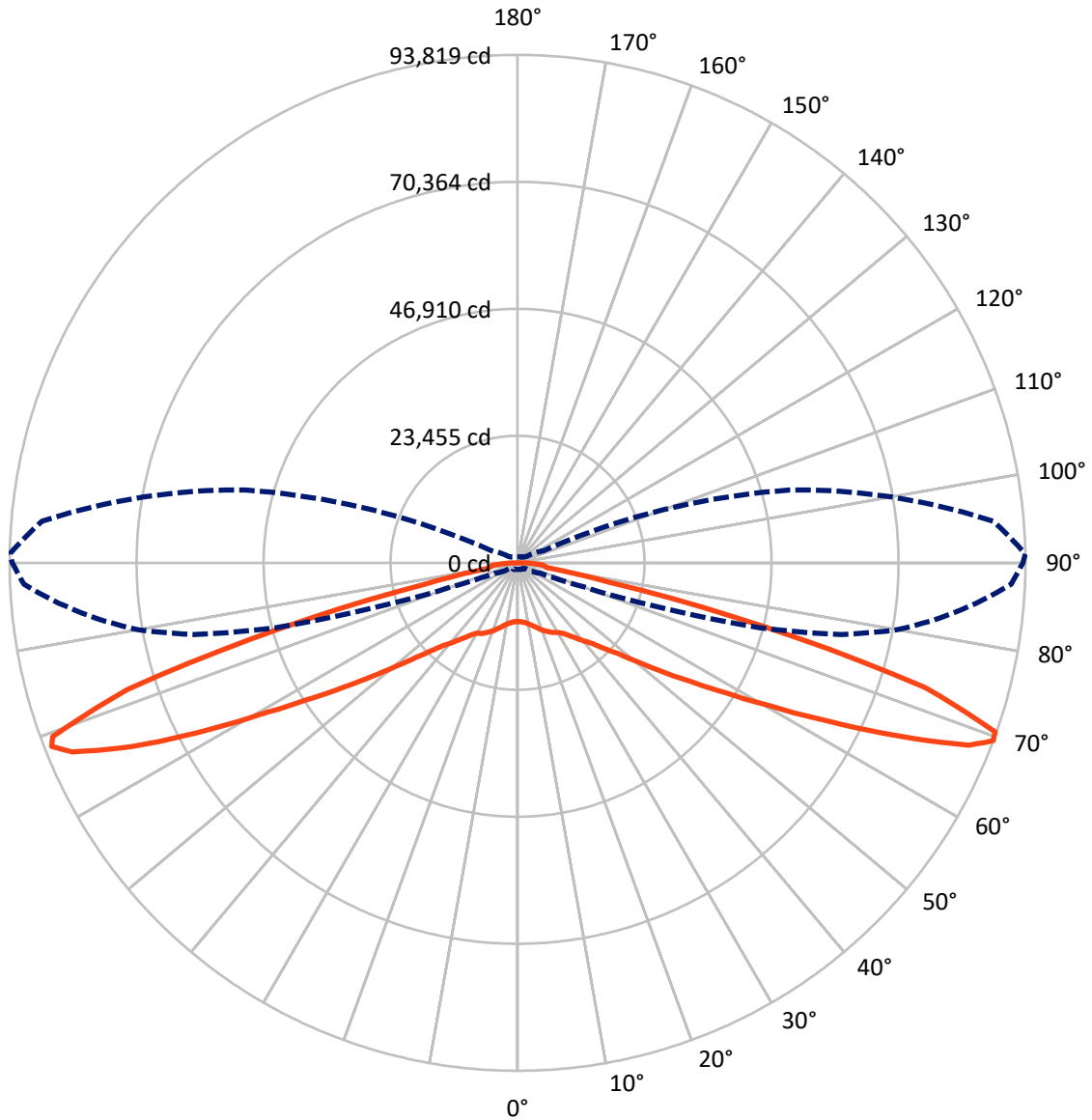
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.6 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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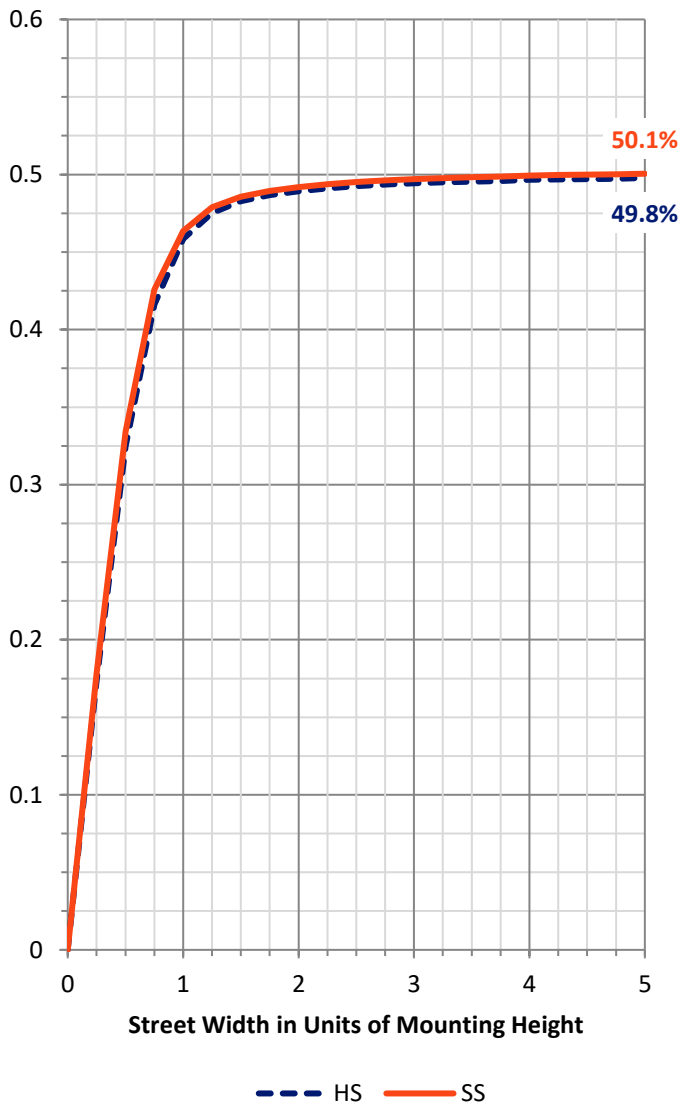
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34839.9	0.0	34839.9
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	34652.8	0.0	34652.8
	% Fixture	49.9	0.0	49.9
Total	Lumens	69492.8	0.0	69492.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.7	1.6
10°-20°	3584.6	5.2
20°-30°	6147.1	8.8
30°-40°	8491.8	12.2
40°-50°	10918.1	15.7
50°-60°	13584.3	19.5
60°-70°	16660.8	24.0
70°-80°	8218.7	11.8
80°-90°	792.8	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°	69492.8	100.0
0°-180°	69492.8	100.0

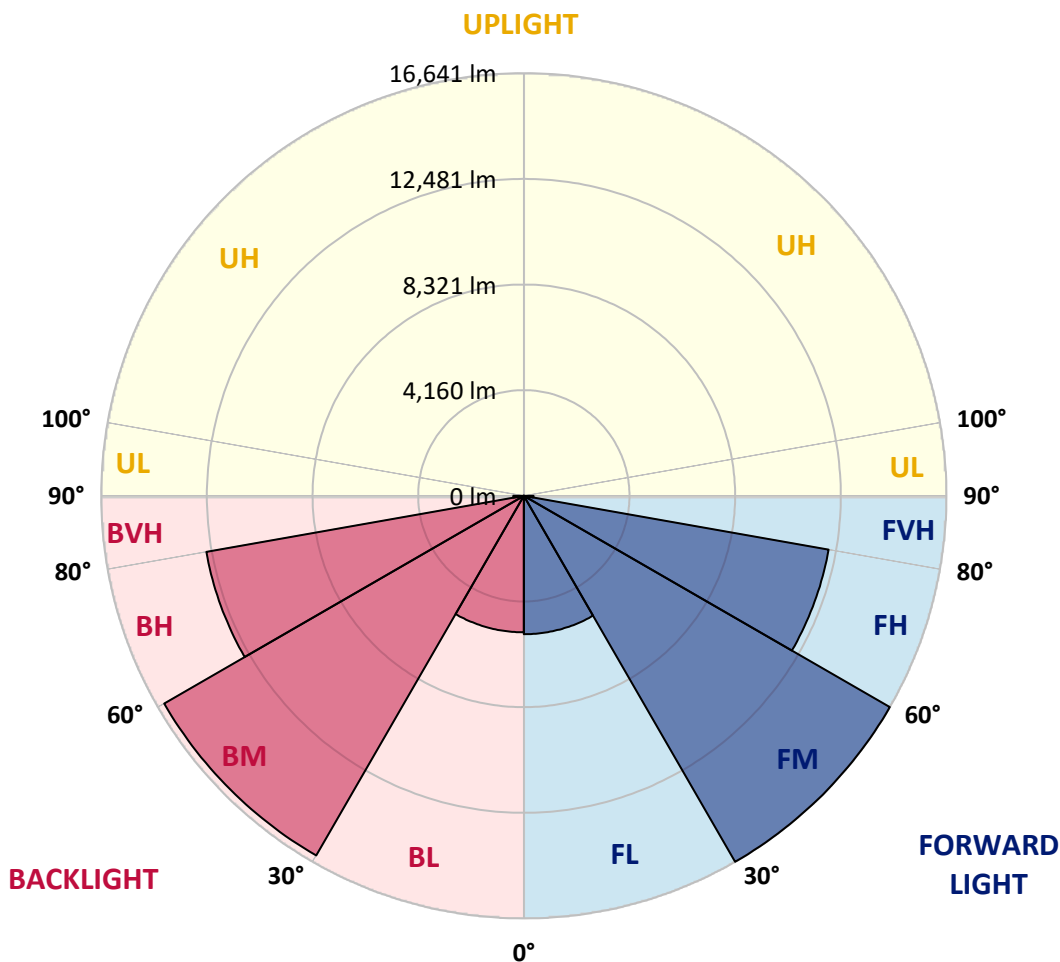


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5449.5	7.8			
FM (30°-60°)	16641.2	23.9			
FH (60°-80°)	12186.2	17.5			G5
FVH (80°-90°)	376.0	0.5			G3/500
BL (0°-30°)	5376.9	7.7	B5		
BM (30°-60°)	16352.9	23.5	B5		
BH (60°-80°)	12693.3	18.3	B5		G5
BVH (80°-90°)	416.9	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°	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4
2.5°	10997.8	11094.2	11012.7	11049.7	11094.2	11072.0	11057.2	10953.3	10990.4	10945.9
5°	11383.5	11450.2	11398.3	11390.9	11346.4	11339.0	11294.5	11131.3	11205.5	11101.7
7.5°	11717.2	11783.9	11717.2	11739.4	11754.3	11709.8	11672.7	11494.7	11509.5	11442.8
10°	11961.9	12065.7	11991.6	12139.9	12139.9	12199.2	12147.3	11887.7	11895.2	11813.6
12.5°	12125.1	12251.1	12221.5	12466.2	12592.3	12621.9	12681.2	12458.8	12443.9	12288.2
15°	12006.4	12028.6	12184.4	12562.6	13000.1	13207.8	13311.6	13052.0	13066.9	12888.9
17.5°	11628.2	11702.3	11850.7	12510.7	13066.9	13682.4	13890.0	13741.7	13712.1	13511.8
20°	11212.9	11227.7	11472.4	12228.9	13089.1	13971.6	14587.1	14468.5	14461.1	14335.0
22.5°	10693.8	10701.2	11042.3	11880.3	13022.4	14105.1	15210.1	15365.8	15262.0	15143.3
25°	10048.6	10130.2	10530.6	11472.4	12792.5	14246.0	15573.5	16085.2	16048.1	15936.8
27.5°	9440.5	9499.8	9937.4	10894.0	12303.0	14038.4	16100.0	16997.3	16900.9	16722.9
30°	8891.7	8988.1	9440.5	10300.7	11694.9	13778.8	16448.5	17746.3	17857.6	17657.3
32.5°	8298.4	8417.1	8891.7	9781.6	11131.3	13534.1	16745.2	18628.8	18903.2	18673.3
35°	7705.2	7794.1	8268.8	9225.4	10723.4	12992.7	16804.5	19770.9	20112.0	19985.9
37.5°	7186.0	7267.6	7734.8	8647.0	10174.7	12592.3	16671.0	20720.1	21335.6	21676.8
40°	6607.6	6711.4	7171.2	8090.8	9447.9	11999.0	16507.9	21780.6	22663.1	23115.5
42.5°	5962.4	6103.3	6548.3	7497.5	8884.3	11264.8	16018.4	22492.5	23864.5	24665.4
45°	5280.1	5384.0	5866.0	6741.1	8216.9	10412.0	15328.7	23360.2	25154.8	26638.0
47.5°	4457.0	4523.7	5013.2	5932.7	7282.4	9529.5	14453.7	24027.6	26601.0	28462.4
50°	3559.6	3626.4	4019.4	4946.4	6259.0	8431.9	13111.4	24309.4	27616.9	30227.3
52.5°	2781.0	2832.9	3144.4	3841.5	5087.3	7178.6	11539.2	24242.7	28262.1	32059.1
55°	2165.5	2209.9	2432.4	2959.0	3900.8	5695.4	9892.9	23019.1	28462.4	33342.0
57.5°	1861.4	1883.6	1987.5	2291.5	2988.6	4316.1	7801.6	20868.4	27476.0	34209.7
60°	1638.9	1646.3	1727.9	1935.6	2313.8	3211.1	5702.9	17434.9	25021.4	33660.9
62.5°	1527.7	1535.1	1579.6	1720.5	1913.3	2425.0	4041.7	13393.2	20668.2	31399.1
65°	1431.3	1438.7	1475.8	1564.8	1646.3	1943.0	2973.8	8832.4	14891.2	25585.0
67.5°	1305.2	1320.0	1357.1	1431.3	1498.0	1616.7	2261.9	5695.4	9373.7	17672.2
69°	1223.6	1238.5	1275.5	1334.9	1394.2	1505.4	1957.8	4546.0	7074.8	12992.7
70°	1164.3	1179.1	1223.6	1283.0	1334.9	1438.7	1802.1	4034.3	6044.0	10575.1
72.5°	1016.0	1030.8	1060.5	1119.8	1179.1	1253.3	1453.5	2884.8	4108.4	6496.4
75°	867.7	875.1	897.3	956.7	1016.0	1075.3	1223.6	2039.4	2729.1	3989.8
77.5°	674.8	682.3	711.9	778.7	815.8	897.3	1038.2	1416.4	1787.2	2321.2
80°	489.5	511.7	548.8	608.1	630.4	674.8	800.9	1016.0	1179.1	1423.9
82.5°	333.7	348.5	385.6	437.5	452.4	452.4	571.0	749.0	838.0	927.0
85°	192.8	200.2	192.8	222.5	259.6	267.0	370.8	452.4	519.1	600.7
87.5°	59.3	59.3	59.3	74.2	89.0	96.4	163.2	207.6	259.6	311.5
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°
10901.4	0°	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4
10953.3	2.5°	10923.7	11012.7	10908.8	10901.4	10894.0	10842.1	10879.2	10871.8	10953.3
11146.1	5°	11079.4	11079.4	11020.1	11064.6	11049.7	10879.2	11034.9	11034.9	11116.5
11390.9	7.5°	11301.9	11316.7	11287.1	11264.8	11235.1	11109.1	11205.5	11190.6	11257.4
11843.2	10°	11732.0	11717.2	11583.7	11583.7	11554.0	11420.5	11479.9	11524.4	11650.4
12280.8	12.5°	12199.2	12102.8	12117.6	12065.7	11969.3	11739.4	11828.4	11835.8	11961.9
12896.3	15°	12710.9	12607.1	12562.6	12518.1	12421.7	12206.6	12332.7	12258.5	12347.5
13459.9	17.5°	13400.6	13267.1	13111.4	12992.7	12851.8	12681.2	12740.6	12799.9	12859.2
14194.1	20°	14164.4	13949.4	13771.4	13578.6	13459.9	13244.9	13319.0	13326.4	13393.2
14965.4	22.5°	14772.5	14587.1	14386.9	14246.0	14001.3	13786.2	13704.6	13719.5	13838.1
15758.9	25°	15566.0	15232.3	15032.1	14802.2	14587.1	14216.3	14179.3	14194.1	14386.9
16648.8	27.5°	16255.7	15981.3	15647.6	15299.1	14987.6	14691.0	14646.5	14594.6	14824.5
17464.5	30°	17153.1	16745.2	16211.2	15877.5	15358.4	14943.1	14883.8	14935.7	15069.2
18658.5	32.5°	18117.1	17687.0	17123.4	16693.3	16062.9	15580.9	15514.1	15566.0	15810.8
19889.5	35°	19533.6	19066.4	18384.1	17724.1	17123.4	16596.9	16559.8	16478.2	16804.5
21580.4	37.5°	21231.8	20608.9	19963.7	19229.5	18591.7	17850.2	17635.1	17701.8	17968.8
23219.3	40°	23145.1	22551.9	21743.5	20905.5	20126.8	19340.8	19029.3	18984.8	19452.0
25355.1	42.5°	25355.1	24947.2	23768.1	22774.3	21750.9	20764.6	20393.8	20416.1	20846.2
27735.6	45°	27935.8	27631.8	26586.1	25340.2	24138.9	22885.6	22640.8	22655.7	23234.1
29886.2	47.5°	30983.8	31176.6	30190.3	28877.6	27394.5	25881.6	25288.3	25140.0	25785.2
32563.4	50°	34068.8	35285.0	34543.4	33290.1	31540.0	29752.7	28988.9	28721.9	29648.9
35218.3	52.5°	37680.4	39638.2	39868.1	38904.0	36938.8	34439.6	33594.2	33319.8	34498.9
37895.4	55°	41425.4	44414.0	45533.8	45667.3	43323.9	40580.0	38985.6	38666.7	40513.2
40238.9	57.5°	45207.5	49723.8	52015.4	53372.5	51407.3	47840.2	45570.9	45229.8	48500.2
42107.7	60°	49093.5	55219.0	58897.3	62323.5	61188.9	57228.8	53721.0	53735.9	58215.1
42908.6	62.5°	51933.8	59638.9	65497.5	71022.4	72045.8	69287.1	64844.9	64392.5	69131.3
40520.7	65°	53446.6	63814.1	71007.6	77563.2	81130.3	80996.8	77377.8	76977.4	80462.9
33609.0	67.5°	51184.8	63969.8	72987.6	79513.6	86054.5	89666.1	89206.3	89895.9	87849.1
26630.6	69°	46364.4	61218.5	71222.6	78519.9	85127.5	91230.8	93314.7	93819.0	88182.9
22040.2	70°	41069.4	57799.8	68278.5	75323.6	81389.9	88976.4	93440.8	93596.5	85231.3
12414.3	72.5°	25629.5	43323.9	53632.0	60365.7	64125.6	71311.6	78831.4	78705.3	67425.7
6941.3	75°	13459.9	24962.0	33364.3	36783.0	38889.2	42582.3	47669.6	47031.8	40528.1
3552.2	77.5°	5992.1	10604.8	13519.2	15454.8	15996.2	17071.5	17575.8	17160.5	16292.8
1913.3	80°	2907.0	4390.2	5710.3	6036.6	5650.9	5384.0	5510.0	5450.7	5962.4
1105.0	82.5°	1446.1	2017.1	2276.7	2729.1	4019.4	4939.0	5079.9	5020.6	4501.5
667.4	85°	771.3	927.0	1067.9	1957.8	3596.7	4508.9	4642.4	4620.1	4160.3
363.4	87.5°	430.1	533.9	771.3	1564.8	2172.9	2298.9	2425.0	2350.9	2417.6
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°
10901.4	10901.4	0°	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4	10901.4
10931.1	11027.5	2.5°	10968.2	11027.5	11057.2	10945.9	11012.7	10953.3	10968.2
11101.7	11227.7	5°	11153.6	11294.5	11272.2	11272.2	11287.1	11198.1	11235.1
11257.4	11442.8	7.5°	11524.4	11576.3	11694.9	11650.4	11605.9	11516.9	11531.8
11680.1	11858.1	10°	12028.6	12028.6	12102.8	12028.6	11887.7	11828.4	11813.6
12110.2	12443.9	12.5°	12518.1	12443.9	12488.4	12273.4	12110.2	11991.6	12050.9
12495.8	12881.5	15°	12955.6	12940.8	12777.7	12503.3	12102.8	11887.7	11902.6
13163.3	13504.4	17.5°	13608.2	13474.8	13044.6	12332.7	11835.8	11628.2	11524.4
13786.2	14179.3	20°	14253.4	13882.6	13015.0	12058.3	11398.3	11057.2	11064.6
14312.8	14876.4	22.5°	14817.0	14038.4	12911.1	11709.8	10997.8	10538.0	10530.6
15054.3	15603.1	25°	15358.4	13949.4	12703.5	11390.9	10552.9	10107.9	10048.6
15706.9	16418.9	27.5°	15781.1	13867.8	12199.2	10879.2	9944.8	9581.4	9544.3
16300.2	17316.2	30°	16048.1	13689.8	11746.8	10278.5	9381.2	9025.2	9010.4
17390.4	18080.0	32.5°	16352.1	13415.4	11153.6	9744.5	8884.3	8498.7	8476.4
18673.3	19207.3	35°	16633.9	13000.1	10671.5	9240.3	8365.2	7912.8	7846.1
20238.1	20482.8	37.5°	16693.3	12540.3	10070.8	8639.6	7720.0	7282.4	7275.0
22233.0	21587.8	40°	16700.7	11984.1	9433.1	8038.9	7089.6	6644.7	6615.0
24391.0	22522.2	42.5°	16404.0	11346.4	8795.3	7326.9	6437.0	5910.5	5873.4
26964.3	23664.2	45°	15721.8	10582.5	7979.5	6540.9	5717.7	5228.2	5168.9
30004.9	24695.1	47.5°	14809.6	9625.9	7156.4	5739.9	4901.9	4457.0	4419.9
33319.8	25362.5	50°	13578.6	8550.6	6162.6	4872.3	4078.8	3715.4	3626.4
37190.9	25451.5	52.5°	12050.9	7319.5	5124.4	3967.5	3322.3	3003.5	2951.5
41418.0	24709.9	55°	10226.6	5992.1	4093.6	3166.6	2580.7	2336.0	2291.5
45326.2	22833.7	57.5°	8194.6	4612.7	3151.8	2447.3	2069.0	1898.5	1846.6
49671.9	19340.8	60°	6125.6	3478.1	2417.6	1943.0	1690.8	1572.2	1549.9
53550.5	15024.7	62.5°	4405.1	2617.8	1898.5	1624.1	1483.2	1423.9	1409.0
55738.2	10093.1	65°	3240.8	2017.1	1579.6	1468.4	1364.5	1312.6	1290.4
55367.4	6607.6	67.5°	2410.2	1616.7	1401.6	1334.9	1260.7	1208.8	1194.0
51889.3	5265.3	69°	2032.0	1460.9	1312.6	1245.9	1179.1	1134.6	1112.4
47766.0	4479.2	70°	1839.2	1379.4	1268.1	1201.4	1127.2	1090.1	1067.9
32044.2	3010.9	72.5°	1446.1	1194.0	1127.2	1053.1	1001.2	956.7	949.2
16834.2	2128.4	75°	1194.0	1023.4	971.5	912.2	860.2	815.8	815.8
7334.4	1527.7	77.5°	1001.2	845.4	800.9	741.6	689.7	645.2	637.8
3522.6	1105.0	80°	778.7	645.2	615.5	593.3	533.9	467.2	459.8
1861.4	793.5	82.5°	556.2	437.5	430.1	415.3	363.4	326.3	311.5
1008.6	474.6	85°	348.5	252.1	229.9	200.2	178.0	178.0	178.0
489.5	207.6	87.5°	133.5	74.2	74.2	59.3	44.5	44.5	44.5
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)