

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: P628138

Luminaire Tested: **EPH-VN-03-E-750-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628138
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-750-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28005 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

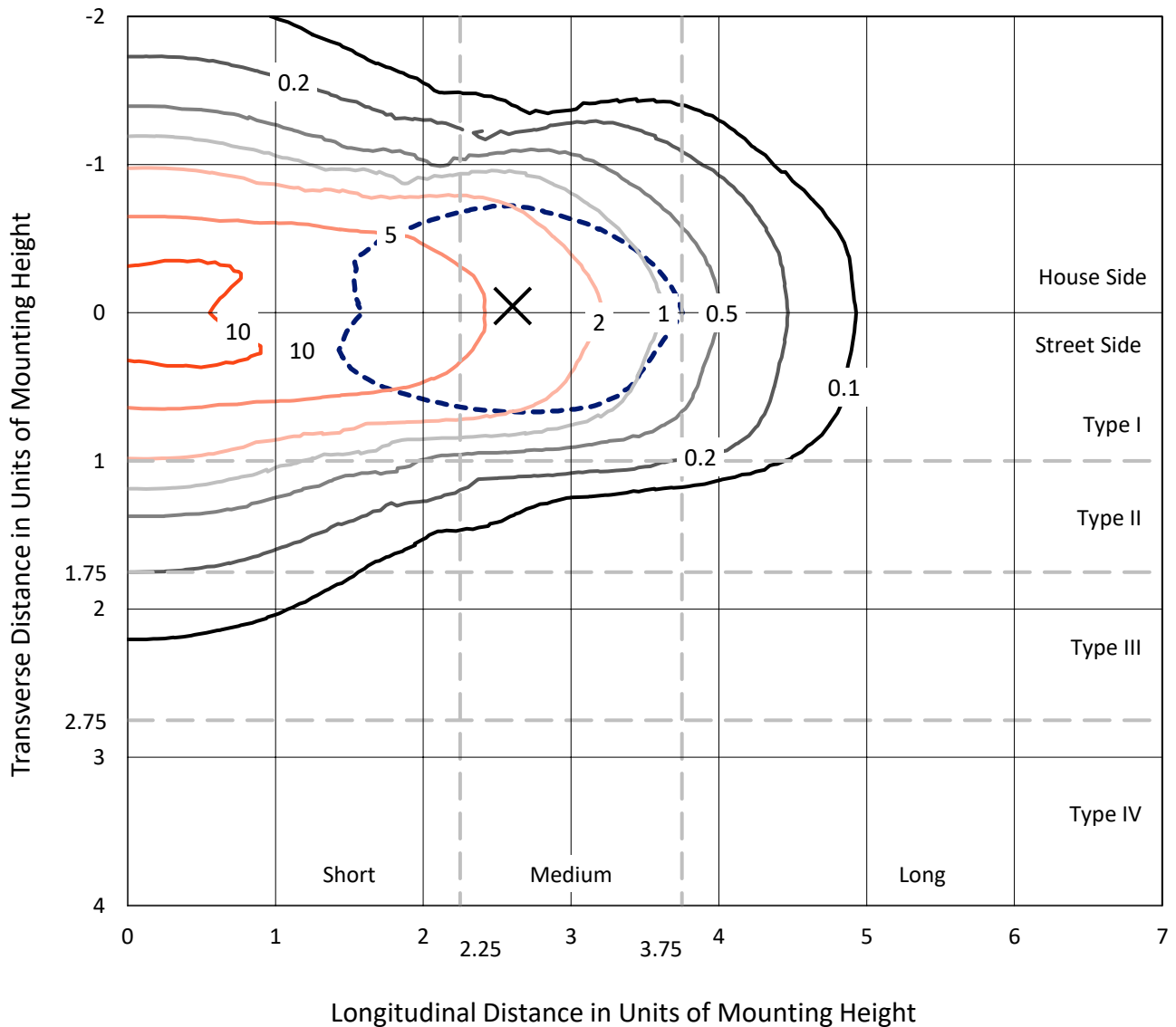
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

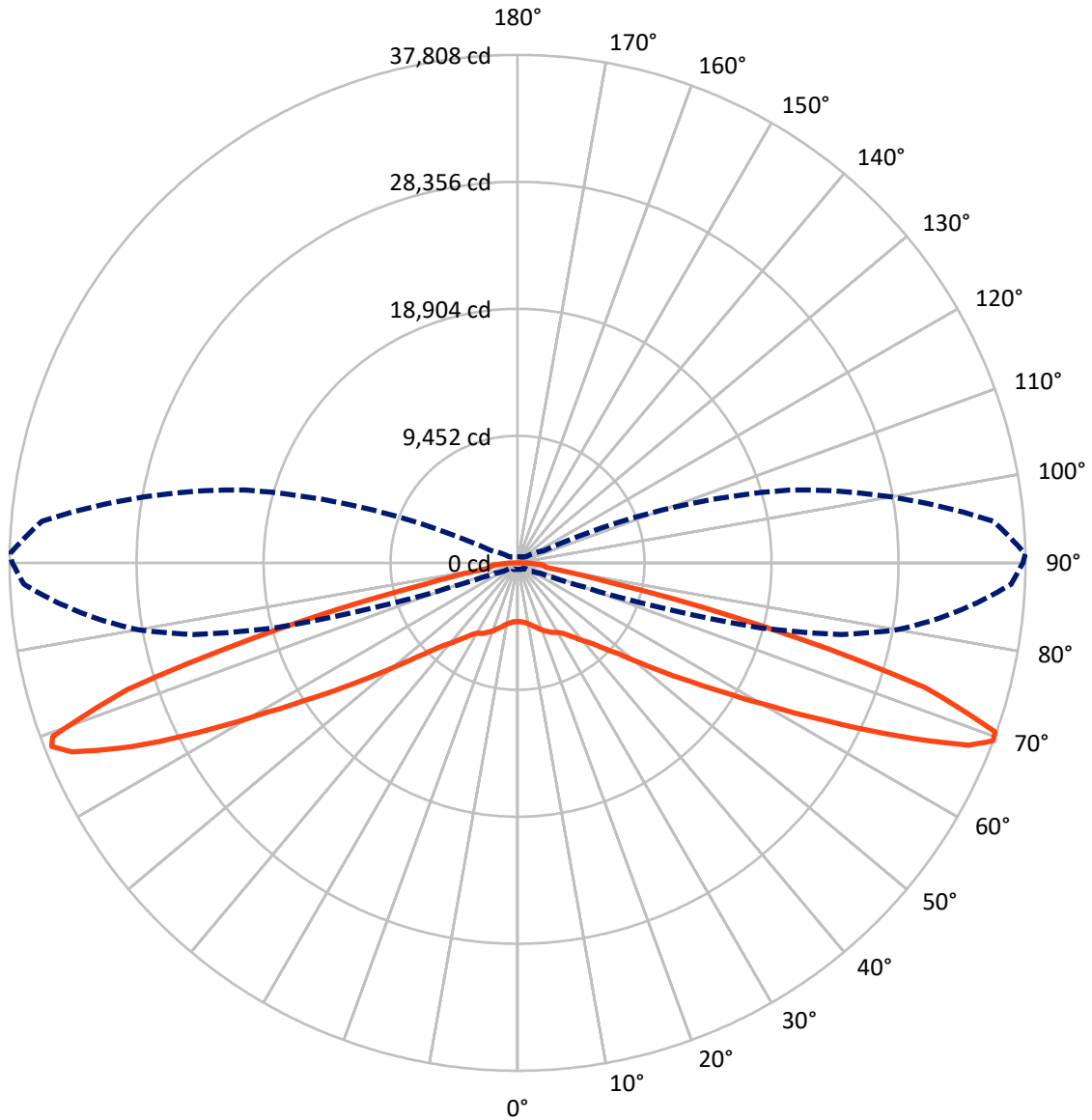
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 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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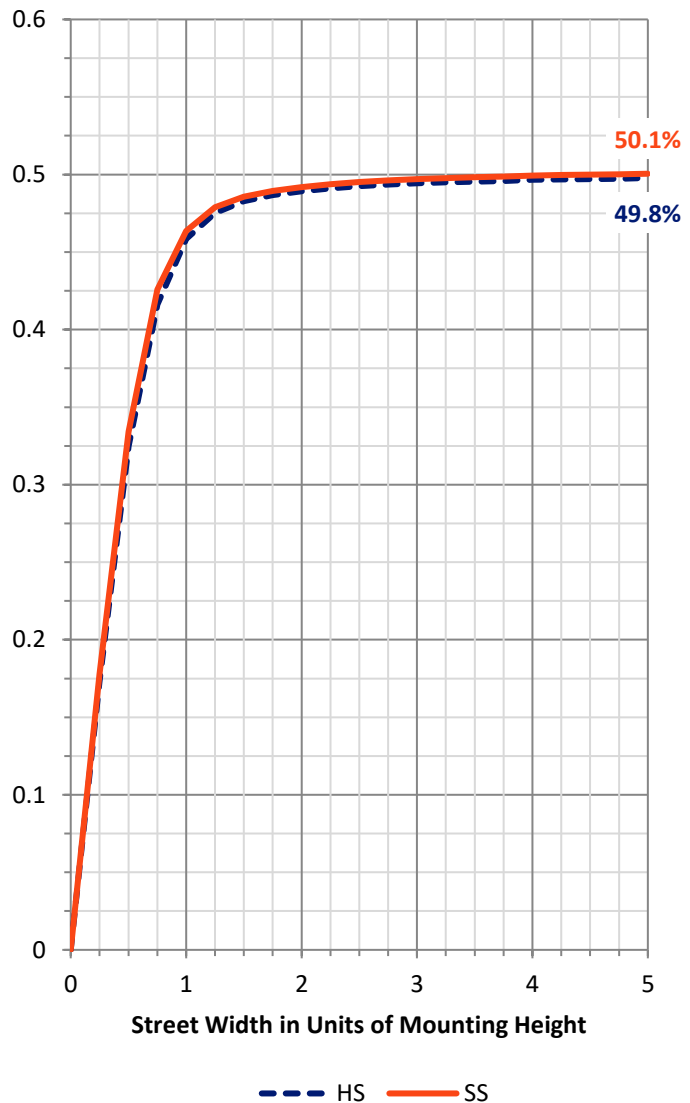
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14040.2	0.0	14040.2
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	13964.8	0.0	13964.8
	% Fixture	49.9	0.0	49.9
Total	Lumens	28005.0	0.0	28005.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	1.6
10°-20°	1444.5	5.2
20°-30°	2477.2	8.8
30°-40°	3422.1	12.2
40°-50°	4399.9	15.7
50°-60°	5474.3	19.5
60°-70°	6714.2	24.0
70°-80°	3312.0	11.8
80°-90°	319.5	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°	28005.0	100.0
0°-180°	28005.0	100.0

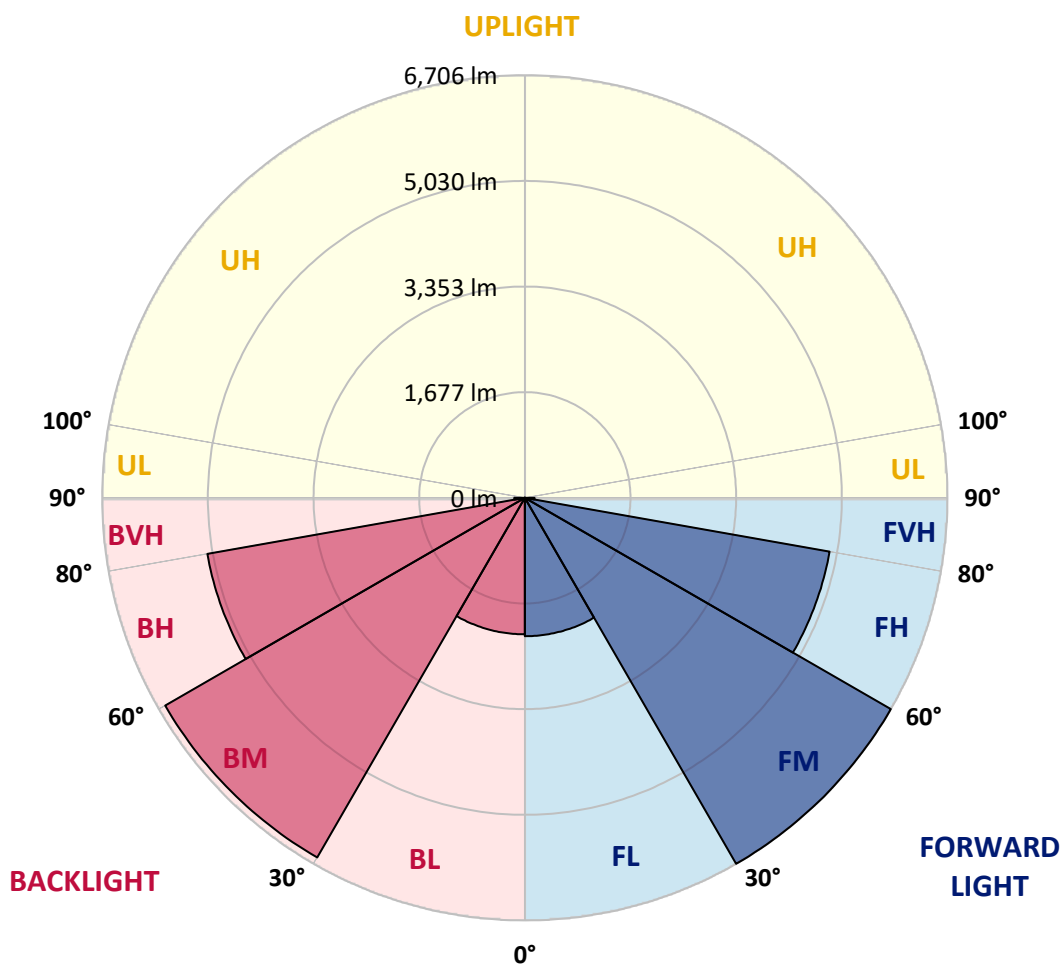


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.1	7.8			
FM (30°-60°)	6706.3	23.9			
FH (60°-80°)	4910.9	17.5			G2/5000
FVH (80°-90°)	151.5	0.5			G2/225
BL (0°-30°)	2166.8	7.7	B3/2500		
BM (30°-60°)	6590.1	23.5	B4/8500		
BH (60°-80°)	5115.3	18.3	B5		G5
BVH (80°-90°)	168.0	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°	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2
2.5°	4432.0	4470.9	4438.0	4452.9	4470.9	4461.9	4455.9	4414.1	4429.0	4411.1
5°	4587.4	4614.3	4593.4	4590.4	4572.5	4569.5	4551.6	4485.8	4515.7	4473.9
7.5°	4721.9	4748.8	4721.9	4730.9	4736.9	4718.9	4704.0	4632.3	4638.2	4611.3
10°	4820.5	4862.4	4832.5	4892.3	4892.3	4916.2	4895.3	4790.7	4793.6	4760.8
12.5°	4886.3	4937.1	4925.1	5023.8	5074.6	5086.5	5110.4	5020.8	5014.8	4952.0
15°	4838.5	4847.4	4910.2	5062.6	5238.9	5322.6	5364.5	5259.9	5265.8	5194.1
17.5°	4686.1	4715.9	4775.7	5041.7	5265.8	5513.9	5597.6	5537.8	5525.8	5445.1
20°	4518.7	4524.7	4623.3	4928.1	5274.8	5630.4	5878.5	5830.7	5827.7	5776.9
22.5°	4309.5	4312.5	4450.0	4787.7	5247.9	5684.2	6129.5	6192.3	6150.4	6102.6
25°	4049.5	4082.4	4243.7	4623.3	5155.3	5741.0	6276.0	6482.2	6467.2	6422.4
27.5°	3804.4	3828.3	4004.7	4390.2	4958.0	5657.3	6488.2	6849.8	6810.9	6739.2
30°	3583.3	3622.1	3804.4	4151.1	4713.0	5552.7	6628.6	7151.6	7196.4	7115.7
32.5°	3344.2	3392.0	3583.3	3941.9	4485.8	5454.1	6748.2	7507.3	7617.8	7525.2
35°	3105.1	3141.0	3332.2	3717.8	4321.5	5235.9	6772.1	7967.5	8105.0	8054.2
37.5°	2895.9	2928.8	3117.1	3484.7	4100.3	5074.6	6718.3	8350.0	8598.1	8735.5
40°	2662.8	2704.6	2889.9	3260.5	3807.4	4835.5	6652.5	8777.4	9133.0	9315.3
42.5°	2402.8	2459.6	2638.9	3021.4	3580.3	4539.6	6455.3	9064.3	9617.2	9939.9
45°	2127.9	2169.7	2363.9	2716.6	3311.3	4195.9	6177.3	9413.9	10137.2	10734.9
47.5°	1796.1	1823.0	2020.3	2390.8	2934.8	3840.3	5824.7	9682.9	10719.9	11470.1
50°	1434.5	1461.4	1619.8	1993.4	2522.3	3398.0	5283.8	9796.5	11129.4	12181.4
52.5°	1120.7	1141.6	1267.1	1548.1	2050.1	2892.9	4650.2	9769.6	11389.4	12919.5
55°	872.7	890.6	980.2	1192.4	1572.0	2295.2	3986.7	9276.5	11470.1	13436.5
57.5°	750.1	759.1	800.9	923.5	1204.4	1739.3	3144.0	8409.8	11072.6	13786.2
60°	660.5	663.5	696.3	780.0	932.4	1294.0	2298.2	7026.1	10083.4	13565.1
62.5°	615.6	618.6	636.6	693.3	771.0	977.3	1628.8	5397.3	8329.1	12653.5
65°	576.8	579.8	594.7	630.6	663.5	783.0	1198.4	3559.4	6001.0	10310.5
67.5°	526.0	532.0	546.9	576.8	603.7	651.5	911.5	2295.2	3777.5	7121.7
69°	493.1	499.1	514.0	537.9	561.8	606.7	789.0	1832.0	2851.1	5235.9
70°	469.2	475.2	493.1	517.0	537.9	579.8	726.2	1625.8	2435.7	4261.7
72.5°	409.4	415.4	427.4	451.3	475.2	505.1	585.8	1162.5	1655.7	2618.0
75°	349.7	352.6	361.6	385.5	409.4	433.3	493.1	821.9	1099.8	1607.8
77.5°	272.0	274.9	286.9	313.8	328.7	361.6	418.4	570.8	720.2	935.4
80°	197.2	206.2	221.2	245.1	254.0	272.0	322.8	409.4	475.2	573.8
82.5°	134.5	140.5	155.4	176.3	182.3	182.3	230.1	301.8	337.7	373.6
85°	77.7	80.7	77.7	89.7	104.6	107.6	149.4	182.3	209.2	242.1
87.5°	23.9	23.9	23.9	29.9	35.9	38.9	65.7	83.7	104.6	125.5
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°
4393.2	0°	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2
4414.1	2.5°	4402.1	4438.0	4396.2	4393.2	4390.2	4369.3	4384.2	4381.2	4414.1
4491.8	5°	4464.9	4464.9	4441.0	4458.9	4452.9	4384.2	4447.0	4447.0	4479.8
4590.4	7.5°	4554.6	4560.5	4548.6	4539.6	4527.7	4476.9	4515.7	4509.7	4536.6
4772.7	10°	4727.9	4721.9	4668.1	4668.1	4656.2	4602.4	4626.3	4644.2	4695.0
4949.0	12.5°	4916.2	4877.3	4883.3	4862.4	4823.5	4730.9	4766.7	4769.7	4820.5
5197.1	15°	5122.4	5080.5	5062.6	5044.7	5005.8	4919.2	4970.0	4940.1	4975.9
5424.2	17.5°	5400.3	5346.5	5283.8	5235.9	5179.2	5110.4	5134.3	5158.2	5182.2
5720.1	20°	5708.1	5621.5	5549.7	5472.0	5424.2	5337.6	5367.4	5370.4	5397.3
6030.9	22.5°	5953.2	5878.5	5797.8	5741.0	5642.4	5555.7	5522.8	5528.8	5576.6
6350.7	25°	6273.0	6138.5	6057.8	5965.2	5878.5	5729.1	5714.1	5720.1	5797.8
6709.3	27.5°	6550.9	6440.3	6305.9	6165.4	6039.9	5920.3	5902.4	5881.5	5974.1
7038.0	30°	6912.5	6748.2	6533.0	6398.5	6189.3	6021.9	5998.0	6019.0	6072.7
7519.2	32.5°	7301.0	7127.7	6900.6	6727.2	6473.2	6279.0	6252.1	6273.0	6371.6
8015.3	35°	7871.9	7683.6	7408.6	7142.6	6900.6	6688.4	6673.4	6640.6	6772.1
8696.7	37.5°	8556.2	8305.2	8045.2	7749.3	7492.3	7193.5	7106.8	7133.7	7241.3
9357.2	40°	9327.3	9088.2	8762.4	8424.7	8110.9	7794.2	7668.6	7650.7	7839.0
10217.9	42.5°	10217.9	10053.5	9578.3	9177.9	8765.4	8368.0	8218.5	8227.5	8400.8
11177.2	45°	11257.9	11135.4	10714.0	10211.9	9727.7	9222.7	9124.1	9130.0	9363.1
12043.9	47.5°	12486.2	12563.9	12166.4	11637.4	11039.7	10430.1	10191.0	10131.2	10391.2
13122.7	50°	13729.4	14219.5	13920.7	13415.6	12710.3	11990.1	11682.3	11574.7	11948.2
14192.6	52.5°	15184.8	15973.8	16066.5	15678.0	14886.0	13878.9	13538.2	13427.6	13902.8
15271.5	55°	16694.1	17898.5	18349.7	18403.5	17459.1	16353.4	15710.8	15582.3	16326.5
16215.9	57.5°	18218.2	20038.3	20961.7	21508.6	20716.7	19279.2	18364.7	18227.2	19545.2
16969.0	60°	19784.2	22252.8	23735.1	25115.8	24658.6	23062.7	21649.1	21655.1	23460.2
17291.8	62.5°	20928.9	24034.0	26394.9	28621.4	29033.8	27922.1	26131.9	25949.6	27859.3
16329.5	65°	21538.5	25716.5	28615.4	31257.3	32694.8	32641.0	31182.6	31021.2	32425.8
13544.1	67.5°	20627.0	25779.3	29413.4	32043.3	34679.2	36134.6	35949.3	36227.3	35402.4
10731.9	69°	18684.4	24670.5	28702.1	31642.8	34305.6	36765.2	37605.0	37808.2	35536.9
8882.0	70°	16550.6	23292.8	27515.6	30354.8	32799.4	35856.7	37655.8	37718.6	34347.5
5002.8	72.5°	10328.4	17459.1	21613.2	24326.8	25842.0	28737.9	31768.3	31717.5	27171.9
2797.3	75°	5424.2	10059.5	13445.5	14823.2	15672.0	17160.3	19210.4	18953.4	16332.5
1431.5	77.5°	2414.8	4273.6	5448.1	6228.1	6446.3	6879.7	7082.9	6915.5	6565.9
771.0	80°	1171.5	1769.2	2301.2	2432.7	2277.3	2169.7	2220.5	2196.6	2402.8
445.3	82.5°	582.8	812.9	917.5	1099.8	1619.8	1990.4	2047.2	2023.3	1814.1
269.0	85°	310.8	373.6	430.4	789.0	1449.4	1817.0	1870.8	1861.9	1676.6
146.4	87.5°	173.3	215.2	310.8	630.6	875.6	926.5	977.3	947.4	974.3
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°
4393.2	4393.2	0°	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2	4393.2
4405.1	4444.0	2.5°	4420.1	4444.0	4455.9	4411.1	4438.0	4414.1	4420.1
4473.9	4524.7	5°	4494.8	4551.6	4542.6	4542.6	4548.6	4512.7	4527.7
4536.6	4611.3	7.5°	4644.2	4665.1	4713.0	4695.0	4677.1	4641.2	4647.2
4707.0	4778.7	10°	4847.4	4847.4	4877.3	4847.4	4790.7	4766.7	4760.8
4880.3	5014.8	12.5°	5044.7	5014.8	5032.7	4946.1	4880.3	4832.5	4856.4
5035.7	5191.1	15°	5221.0	5215.0	5149.3	5038.7	4877.3	4790.7	4796.6
5304.7	5442.2	17.5°	5484.0	5430.2	5256.9	4970.0	4769.7	4686.1	4644.2
5555.7	5714.1	20°	5744.0	5594.6	5244.9	4859.4	4593.4	4455.9	4458.9
5767.9	5995.0	22.5°	5971.1	5657.3	5203.1	4718.9	4432.0	4246.7	4243.7
6066.8	6287.9	25°	6189.3	5621.5	5119.4	4590.4	4252.7	4073.4	4049.5
6329.8	6616.7	27.5°	6359.6	5588.6	4916.2	4384.2	4007.7	3861.2	3846.3
6568.8	6978.3	30°	6467.2	5516.9	4733.9	4142.1	3780.5	3637.1	3631.1
7008.2	7286.1	32.5°	6589.8	5406.3	4494.8	3927.0	3580.3	3424.9	3415.9
7525.2	7740.4	35°	6703.3	5238.9	4300.5	3723.7	3371.1	3188.8	3161.9
8155.8	8254.4	37.5°	6727.2	5053.6	4058.5	3481.7	3111.1	2934.8	2931.8
8959.7	8699.7	40°	6730.2	4829.5	3801.4	3239.6	2857.1	2677.7	2665.8
9829.4	9076.2	42.5°	6610.7	4572.5	3544.4	2952.7	2594.1	2381.9	2366.9
10866.4	9536.5	45°	6335.7	4264.7	3215.7	2635.9	2304.2	2106.9	2083.0
12091.7	9951.9	47.5°	5968.1	3879.1	2884.0	2313.1	1975.4	1796.1	1781.2
13427.6	10220.9	50°	5472.0	3445.8	2483.5	1963.5	1643.7	1497.3	1461.4
14987.6	10256.7	52.5°	4856.4	2949.7	2065.1	1598.9	1338.9	1210.4	1189.4
16691.1	9957.9	55°	4121.2	2414.8	1649.7	1276.1	1040.0	941.4	923.5
18266.0	9201.8	57.5°	3302.4	1858.9	1270.1	986.2	833.8	765.1	744.2
20017.3	7794.2	60°	2468.5	1401.6	974.3	783.0	681.4	633.6	624.6
21580.4	6054.8	62.5°	1775.2	1055.0	765.1	654.5	597.7	573.8	567.8
22462.0	4067.4	65°	1306.0	812.9	636.6	591.7	549.9	529.0	520.0
22312.6	2662.8	67.5°	971.3	651.5	564.8	537.9	508.1	487.1	481.2
20910.9	2121.9	69°	818.9	588.7	529.0	502.1	475.2	457.2	448.3
19249.3	1805.1	70°	741.2	555.9	511.0	484.1	454.3	439.3	430.4
12913.5	1213.4	72.5°	582.8	481.2	454.3	424.4	403.5	385.5	382.5
6784.0	857.7	75°	481.2	412.4	391.5	367.6	346.7	328.7	328.7
2955.7	615.6	77.5°	403.5	340.7	322.8	298.9	277.9	260.0	257.0
1419.6	445.3	80°	313.8	260.0	248.1	239.1	215.2	188.3	185.3
750.1	319.8	82.5°	224.1	176.3	173.3	167.4	146.4	131.5	125.5
406.4	191.3	85°	140.5	101.6	92.6	80.7	71.7	71.7	71.7
197.2	83.7	87.5°	53.8	29.9	29.9	23.9	17.9	17.9	17.9
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)