

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: P628129

Luminaire Tested: **EPH-VN-07-E-735-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628129
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-735-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56513.3 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

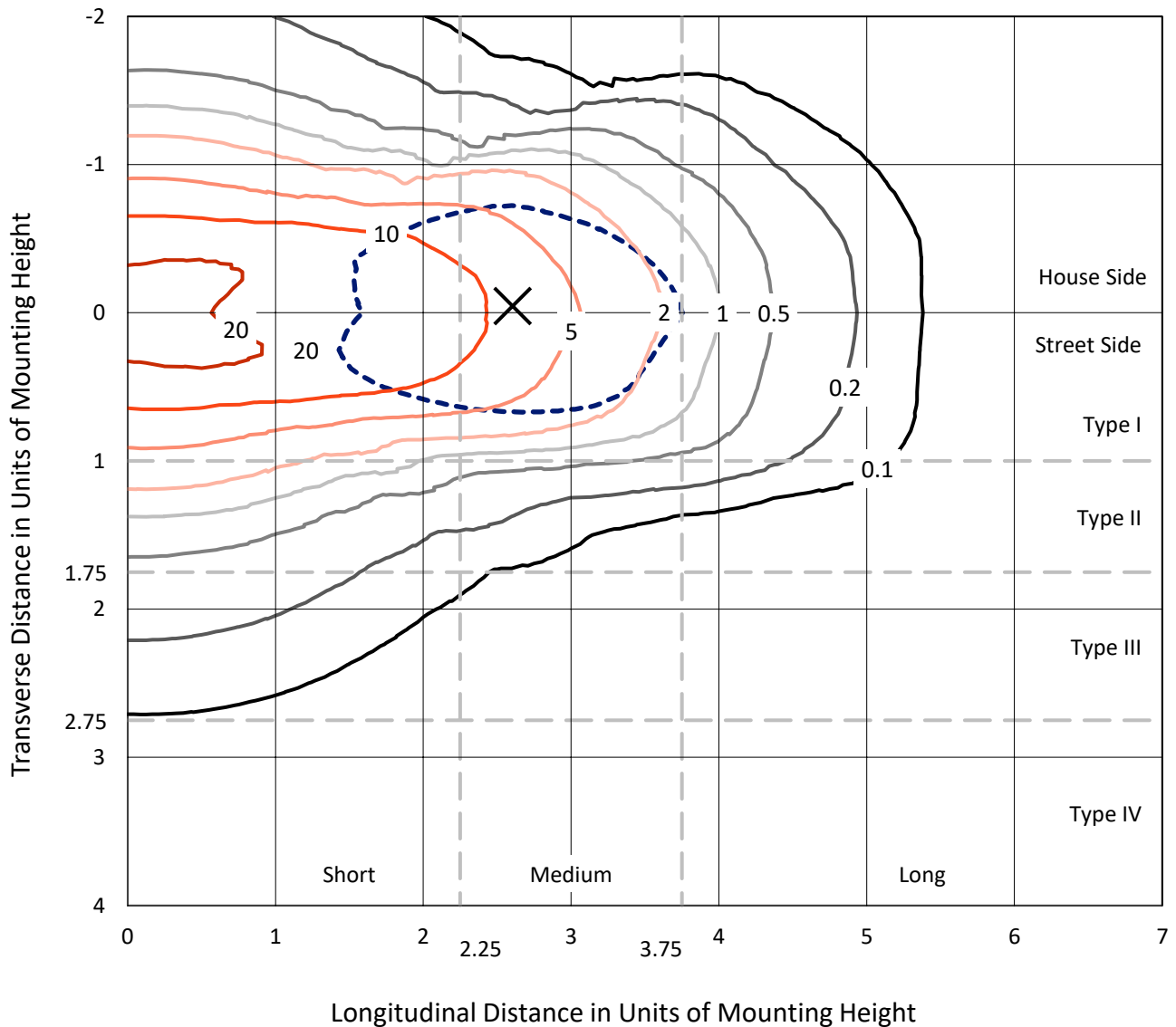
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

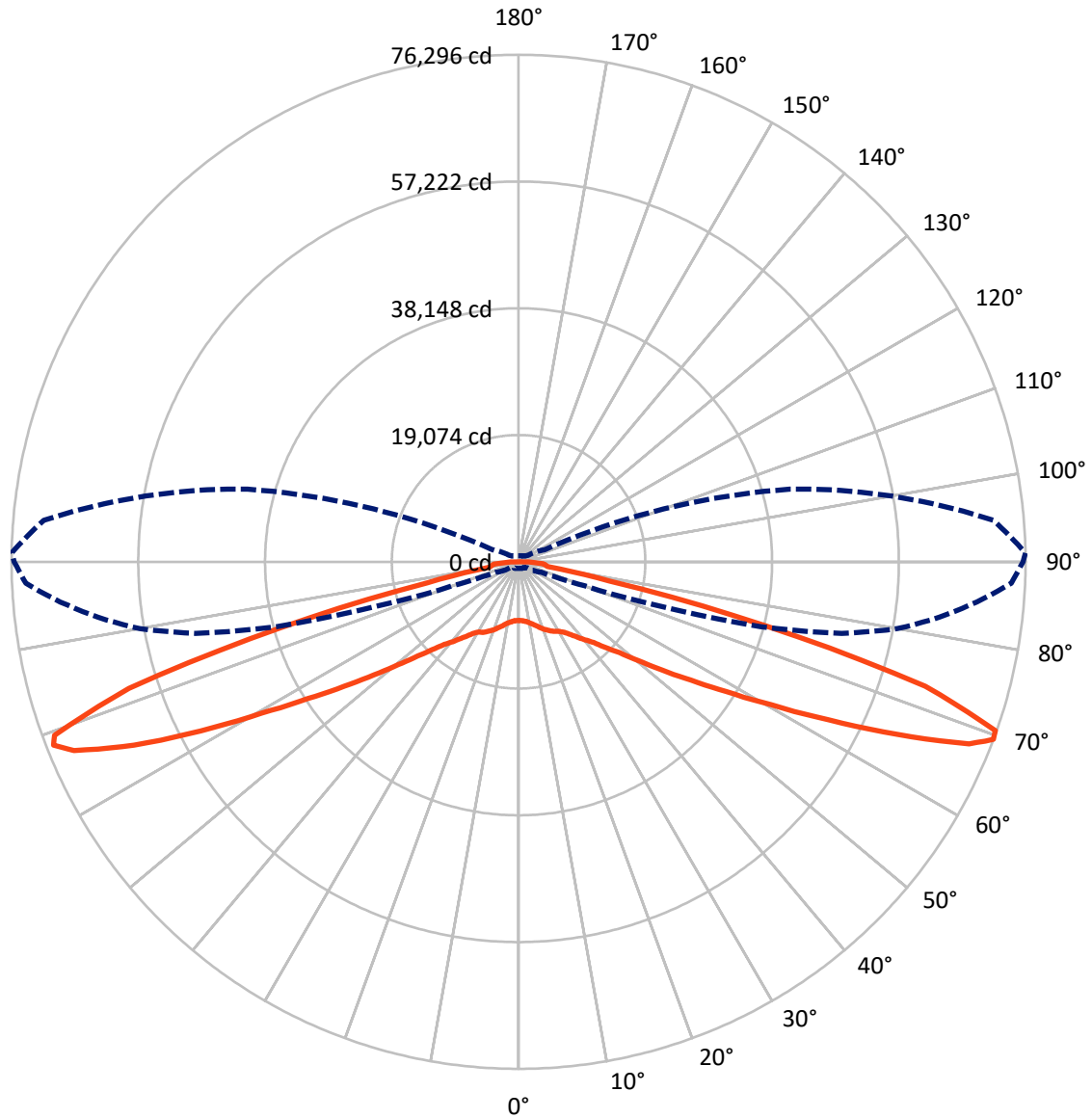
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.1 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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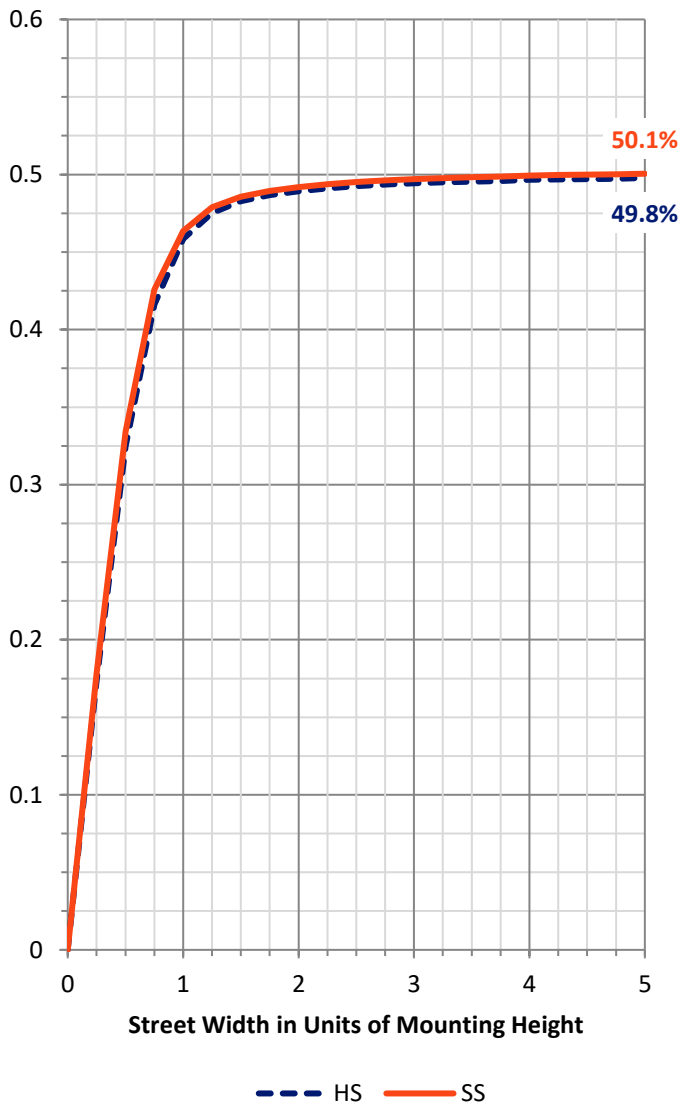
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28332.7	0.0	28332.7
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	28180.6	0.0	28180.6
	% Fixture	49.9	0.0	49.9
Total	Lumens	56513.3	0.0	56513.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.3	1.6
10°-20°	2915.1	5.2
20°-30°	4998.9	8.8
30°-40°	6905.7	12.2
40°-50°	8878.9	15.7
50°-60°	11047.1	19.5
60°-70°	13549.0	24.0
70°-80°	6683.6	11.8
80°-90°	644.7	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°	56513.3	100.0
0°-180°	56513.3	100.0

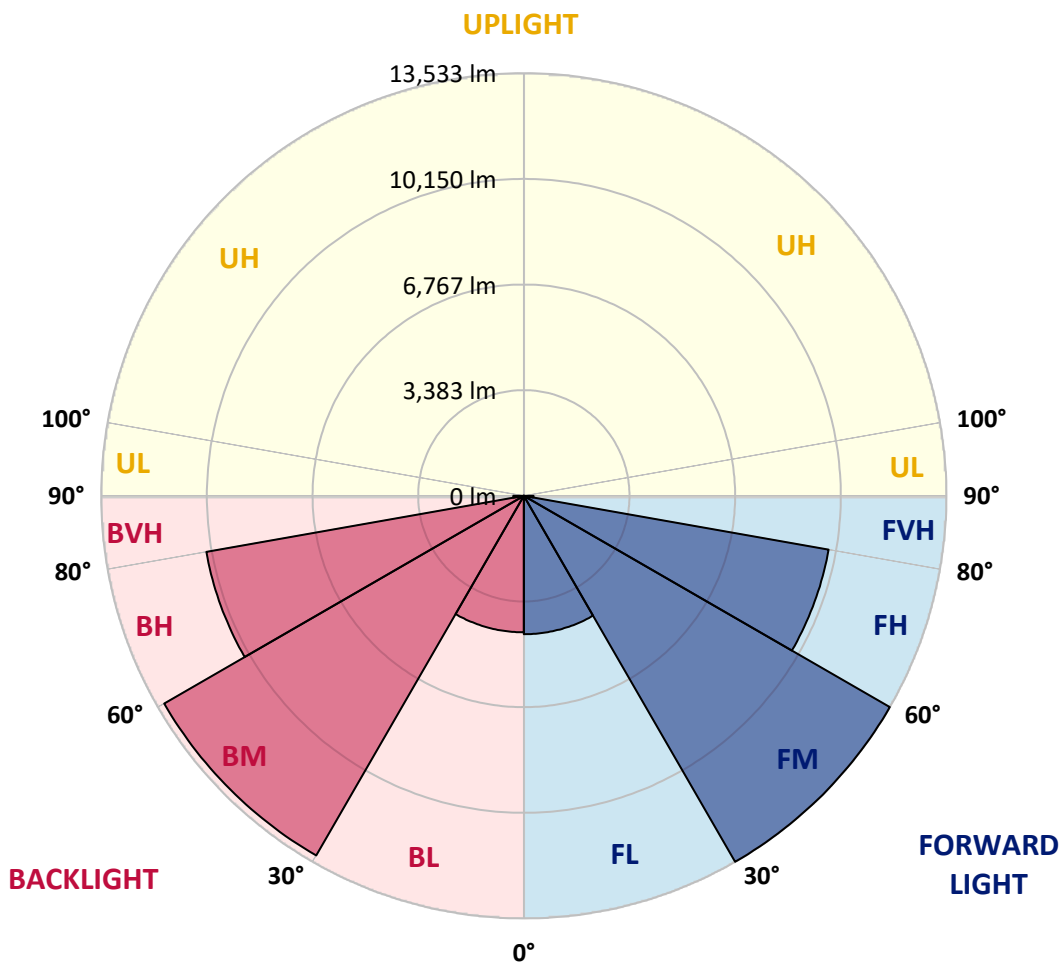


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4431.6	7.8			
FM (30°-60°)	13533.1	23.9			
FH (60°-80°)	9910.1	17.5			G4/12000
FVH (80°-90°)	305.7	0.5			G3/500
BL (0°-30°)	4372.6	7.7	B4/5000		
BM (30°-60°)	13298.6	23.5	B5		
BH (60°-80°)	10322.5	18.3	B5		G5
BVH (80°-90°)	339.0	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°	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3
2.5°	8943.7	9022.1	8955.8	8985.9	9022.1	9004.0	8992.0	8907.5	8937.7	8901.5
5°	9257.3	9311.6	9269.4	9263.4	9227.2	9221.1	9185.0	9052.3	9112.6	9028.2
7.5°	9528.7	9583.0	9528.7	9546.8	9558.9	9522.7	9492.5	9347.8	9359.9	9305.6
10°	9727.7	9812.2	9751.9	9872.5	9872.5	9920.7	9878.5	9667.4	9673.5	9607.1
12.5°	9860.4	9962.9	9938.8	10137.8	10240.4	10264.5	10312.7	10131.8	10119.7	9993.1
15°	9763.9	9782.0	9908.7	10216.2	10572.1	10740.9	10825.3	10614.3	10626.3	10481.6
17.5°	9456.3	9516.7	9637.3	10174.0	10626.3	11126.9	11295.8	11175.1	11151.0	10988.2
20°	9118.6	9130.7	9329.7	9944.8	10644.4	11362.1	11862.6	11766.2	11760.1	11657.6
22.5°	8696.5	8702.5	8979.9	9661.4	10590.1	11470.6	12369.2	12495.9	12411.5	12315.0
25°	8171.8	8238.1	8563.8	9329.7	10403.2	11585.2	12664.7	13080.9	13050.7	12960.3
27.5°	7677.3	7725.5	8081.3	8859.3	10005.2	11416.4	13092.9	13822.7	13744.3	13599.5
30°	7231.0	7309.4	7677.3	8376.8	9510.6	11205.3	13376.4	14431.8	14522.2	14359.4
32.5°	6748.5	6845.0	7231.0	7954.7	9052.3	11006.3	13617.6	15149.5	15372.6	15185.6
35°	6266.0	6338.4	6724.4	7502.4	8720.6	10566.0	13665.9	16078.2	16355.6	16253.1
37.5°	5843.9	5910.2	6290.2	7032.0	8274.3	10240.4	13557.3	16850.1	17350.7	17628.1
40°	5373.5	5457.9	5831.8	6579.6	7683.3	9757.9	13424.6	17712.6	18430.2	18798.1
42.5°	4848.8	4963.4	5325.2	6097.2	7224.9	9160.8	13026.6	18291.5	19407.2	20058.6
45°	4294.0	4378.4	4770.4	5482.0	6682.2	8467.3	12465.7	18997.1	20456.6	21662.8
47.5°	3624.5	3678.8	4076.8	4824.7	5922.3	7749.6	11754.1	19539.9	21632.6	23146.3
50°	2894.8	2949.1	3268.7	4022.6	5090.0	6857.1	10662.5	19769.1	22458.8	24581.7
52.5°	2261.6	2303.8	2557.1	3124.0	4137.2	5837.8	9384.0	19714.8	22983.5	26071.3
55°	1761.0	1797.2	1978.1	2406.3	3172.2	4631.7	8045.1	18719.7	23146.3	27114.6
57.5°	1513.7	1531.8	1616.3	1863.5	2430.4	3509.9	6344.4	16970.8	22344.2	27820.2
60°	1332.8	1338.8	1405.2	1574.0	1881.6	2611.4	4637.7	14178.5	20348.0	27374.0
62.5°	1242.4	1248.4	1284.6	1399.2	1556.0	1972.1	3286.8	10891.7	16807.9	25534.5
65°	1164.0	1170.0	1200.1	1272.5	1338.8	1580.1	2418.4	7182.7	12109.9	20806.4
67.5°	1061.4	1073.5	1103.6	1164.0	1218.2	1314.7	1839.4	4631.7	7623.0	14371.5
69°	995.1	1007.1	1037.3	1085.5	1133.8	1224.3	1592.1	3696.9	5753.4	10566.0
70°	946.8	958.9	995.1	1043.3	1085.5	1170.0	1465.5	3280.8	4915.1	8600.0
72.5°	826.2	838.3	862.4	910.7	958.9	1019.2	1182.0	2346.0	3341.1	5283.0
75°	705.6	711.6	729.7	778.0	826.2	874.5	995.1	1658.5	2219.3	3244.6
77.5°	548.8	554.8	579.0	633.2	663.4	729.7	844.3	1151.9	1453.4	1887.7
80°	398.0	416.1	446.3	494.5	512.6	548.8	651.3	826.2	958.9	1157.9
82.5°	271.4	283.4	313.6	355.8	367.9	367.9	464.4	609.1	681.5	753.9
85°	156.8	162.8	156.8	180.9	211.1	217.1	301.5	367.9	422.2	488.5
87.5°	48.2	48.2	48.2	60.3	72.4	78.4	132.7	168.9	211.1	253.3
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°
8865.3	0°	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3
8907.5	2.5°	8883.4	8955.8	8871.4	8865.3	8859.3	8817.1	8847.2	8841.2	8907.5
9064.3	5°	9010.1	9010.1	8961.8	8998.0	8985.9	8847.2	8973.9	8973.9	9040.2
9263.4	7.5°	9191.0	9203.1	9178.9	9160.8	9136.7	9034.2	9112.6	9100.5	9154.8
9631.2	10°	9540.8	9528.7	9420.2	9420.2	9396.0	9287.5	9335.7	9371.9	9474.4
9987.1	12.5°	9920.7	9842.3	9854.4	9812.2	9733.8	9546.8	9619.2	9625.2	9727.7
10487.6	15°	10336.8	10252.4	10216.2	10180.0	10101.6	9926.8	10029.3	9969.0	10041.3
10946.0	17.5°	10897.7	10789.2	10662.5	10566.0	10451.4	10312.7	10361.0	10409.2	10457.5
11543.0	20°	11518.9	11344.0	11199.3	11042.5	10946.0	10771.1	10831.4	10837.4	10891.7
12170.2	22.5°	12013.4	11862.6	11699.8	11585.2	11386.2	11211.3	11145.0	11157.0	11253.5
12815.5	25°	12658.7	12387.3	12224.5	12037.5	11862.6	11561.1	11531.0	11543.0	11699.8
13539.2	27.5°	13219.6	12996.4	12725.1	12441.6	12188.3	11947.1	11910.9	11868.7	12055.6
14202.6	30°	13949.3	13617.6	13183.4	12912.0	12489.9	12152.1	12103.9	12146.1	12254.7
15173.6	32.5°	14733.3	14383.5	13925.2	13575.4	13062.8	12670.8	12616.5	12658.7	12857.7
16174.7	35°	15885.2	15505.3	14950.4	14413.7	13925.2	13497.0	13466.9	13400.5	13665.9
17549.7	37.5°	17266.3	16759.7	16235.0	15638.0	15119.3	14516.2	14341.3	14395.6	14612.7
18882.5	40°	18822.2	18339.8	17682.4	17000.9	16367.7	15728.4	15475.1	15438.9	15818.9
20619.4	42.5°	20619.4	20287.7	19328.8	18520.7	17688.4	16886.3	16584.8	16602.9	16952.7
22555.3	45°	22718.1	22470.9	21620.5	20607.4	19630.4	18611.2	18412.1	18424.2	18894.6
24304.3	47.5°	25196.8	25353.6	24551.5	23484.1	22277.9	21047.6	20565.1	20444.5	20969.2
26481.4	50°	27705.6	28694.7	28091.6	27072.4	25649.1	24195.7	23574.5	23357.4	24111.3
28640.4	52.5°	30642.7	32234.8	32421.8	31637.8	30039.6	28007.2	27319.7	27096.5	28055.4
30817.6	55°	33688.2	36118.7	37029.3	37137.9	35232.1	33000.7	31704.1	31444.8	32946.4
32723.3	57.5°	36764.0	40436.7	42300.3	43403.9	41805.7	38904.9	37059.5	36782.1	39441.6
34243.1	60°	39924.1	44905.6	47896.9	50683.1	49760.4	46539.9	43687.4	43699.4	47342.0
34894.4	62.5°	42233.9	48500.0	53264.3	57757.3	58589.5	56346.1	52733.6	52365.7	56219.4
32952.5	65°	43464.2	51895.3	57745.2	63076.5	65977.3	65868.8	62925.7	62600.0	65434.5
27331.7	67.5°	41624.8	52022.0	59355.5	64662.6	69981.8	72918.8	72544.9	73105.8	71441.2
21656.7	69°	37704.8	49784.5	57920.1	63854.5	69227.9	74191.3	75886.0	76296.1	71712.6
17923.6	70°	33398.8	47004.3	55525.9	61255.2	66188.4	72357.9	75988.5	76115.1	69312.4
10095.6	72.5°	20842.6	35232.1	43615.0	49091.0	52148.6	57992.5	64107.8	64005.2	54832.3
5644.9	75°	10946.0	20299.8	27132.7	29912.9	31625.7	34629.0	38766.2	38247.5	32958.5
2888.8	77.5°	4872.9	8624.1	10994.2	12568.3	13008.5	13883.0	14293.1	13955.3	13249.7
1556.0	80°	2364.1	3570.3	4643.7	4909.1	4595.5	4378.4	4480.9	4432.7	4848.8
898.6	82.5°	1176.0	1640.4	1851.5	2219.3	3268.7	4016.5	4131.1	4082.9	3660.7
542.8	85°	627.2	753.9	868.4	1592.1	2925.0	3666.7	3775.3	3757.2	3383.3
295.5	87.5°	349.8	434.2	627.2	1272.5	1767.0	1869.6	1972.1	1911.8	1966.1
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°
8865.3	8865.3	0°	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3	8865.3
8889.4	8967.8	2.5°	8919.6	8967.8	8992.0	8901.5	8955.8	8907.5	8919.6
9028.2	9130.7	5°	9070.4	9185.0	9166.9	9166.9	9178.9	9106.6	9136.7
9154.8	9305.6	7.5°	9371.9	9414.1	9510.6	9474.4	9438.3	9365.9	9377.9
9498.6	9643.3	10°	9782.0	9782.0	9842.3	9782.0	9667.4	9619.2	9607.1
9848.4	10119.7	12.5°	10180.0	10119.7	10155.9	9981.0	9848.4	9751.9	9800.1
10162.0	10475.6	15°	10535.9	10523.8	10391.1	10168.0	9842.3	9667.4	9679.5
10704.7	10982.1	17.5°	11066.6	10958.0	10608.2	10029.3	9625.2	9456.3	9371.9
11211.3	11531.0	20°	11591.3	11289.7	10584.1	9806.1	9269.4	8992.0	8998.0
11639.5	12097.9	22.5°	12049.6	11416.4	10499.7	9522.7	8943.7	8569.8	8563.8
12242.6	12688.9	25°	12489.9	11344.0	10330.8	9263.4	8581.9	8220.0	8171.8
12773.3	13352.3	27.5°	12833.6	11277.7	9920.7	8847.2	8087.3	7791.8	7761.7
13255.8	14082.0	30°	13050.7	11132.9	9552.8	8358.7	7629.0	7339.5	7327.5
14142.3	14703.2	32.5°	13298.0	10909.8	9070.4	7924.5	7224.9	6911.3	6893.2
15185.6	15619.9	35°	13527.2	10572.1	8678.4	7514.4	6802.8	6434.9	6380.6
16458.1	16657.2	37.5°	13575.4	10198.1	8189.9	7025.9	6278.1	5922.3	5916.2
18080.4	17555.8	40°	13581.4	9745.8	7671.2	6537.4	5765.5	5403.6	5379.5
19835.4	18315.6	42.5°	13340.2	9227.2	7152.6	5958.5	5234.8	4806.6	4776.4
21928.1	19244.4	45°	12785.4	8606.0	6489.2	5319.2	4649.8	4251.7	4203.5
24400.8	20082.7	47.5°	12043.6	7828.0	5819.8	4667.9	3986.4	3624.5	3594.4
27096.5	20625.4	50°	11042.5	6953.6	5011.6	3962.3	3317.0	3021.4	2949.1
30244.6	20697.8	52.5°	9800.1	5952.4	4167.3	3226.5	2701.8	2442.5	2400.3
33682.2	20094.7	55°	8316.5	4872.9	3329.0	2575.2	2098.7	1899.7	1863.5
36860.5	18568.9	57.5°	6664.1	3751.2	2563.1	1990.2	1682.6	1543.9	1501.7
40394.5	15728.4	60°	4981.5	2828.5	1966.1	1580.1	1375.0	1278.5	1260.4
43548.6	12218.5	62.5°	3582.3	2128.9	1543.9	1320.8	1206.2	1157.9	1145.9
45327.7	8208.0	65°	2635.5	1640.4	1284.6	1194.1	1109.7	1067.5	1049.4
45026.2	5373.5	67.5°	1960.0	1314.7	1139.8	1085.5	1025.2	983.0	971.0
42197.7	4281.9	69°	1652.4	1188.1	1067.5	1013.2	958.9	922.7	904.6
38844.6	3642.6	70°	1495.6	1121.7	1031.3	977.0	916.7	886.5	868.4
26059.2	2448.5	72.5°	1176.0	971.0	916.7	856.4	814.2	778.0	771.9
13690.0	1730.8	75°	971.0	832.3	790.0	741.8	699.6	663.4	663.4
5964.5	1242.4	77.5°	814.2	687.5	651.3	603.1	560.9	524.7	518.7
2864.6	898.6	80°	633.2	524.7	500.6	482.5	434.2	379.9	373.9
1513.7	645.3	82.5°	452.3	355.8	349.8	337.7	295.5	265.4	253.3
820.2	386.0	85°	283.4	205.0	187.0	162.8	144.7	144.7	144.7
398.0	168.9	87.5°	108.6	60.3	60.3	48.2	36.2	36.2	36.2
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)