

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: P977459

Luminaire Tested: **EPH-VN-08-E-740-U-T4W**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-T4W
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68255.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

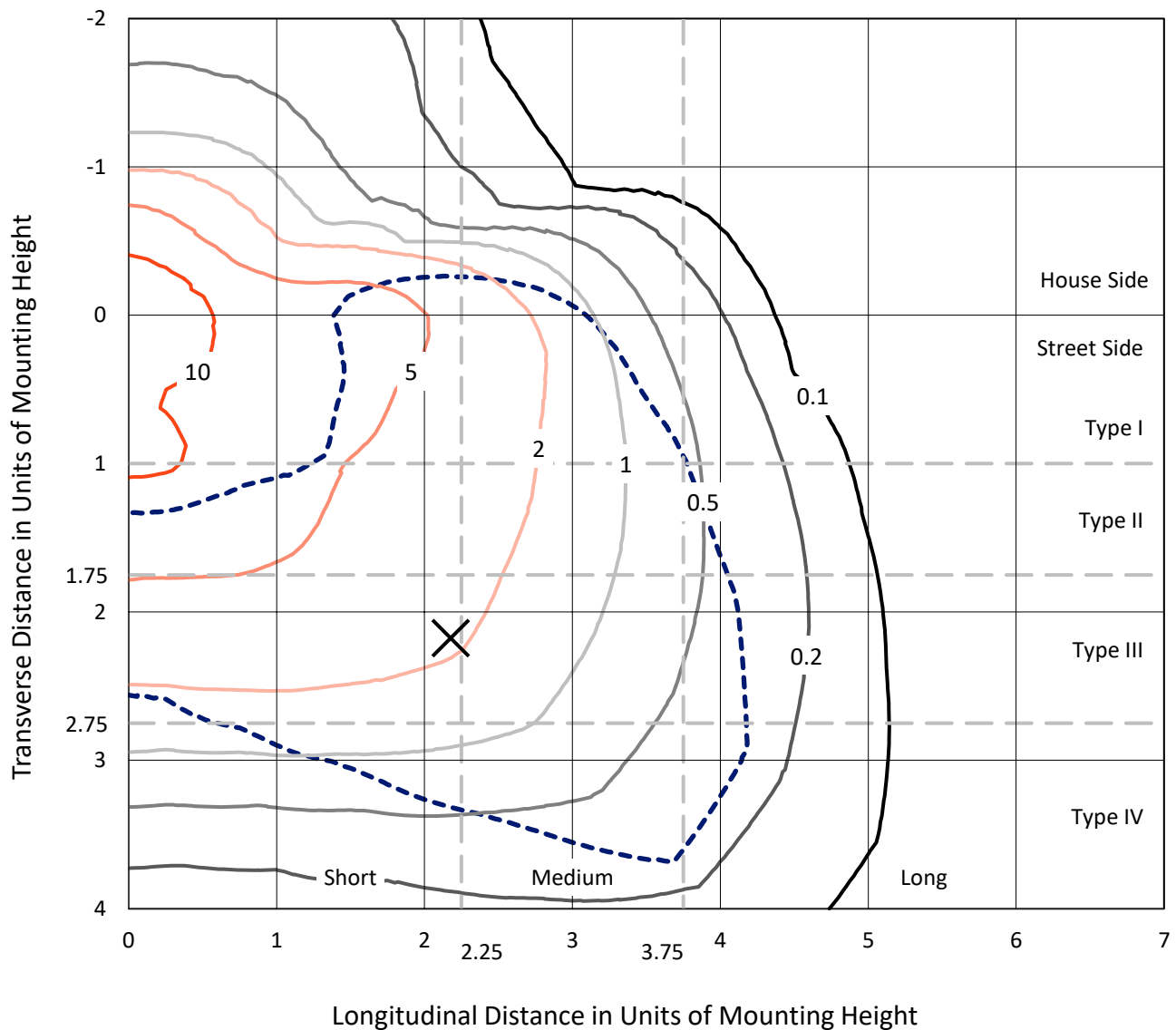
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

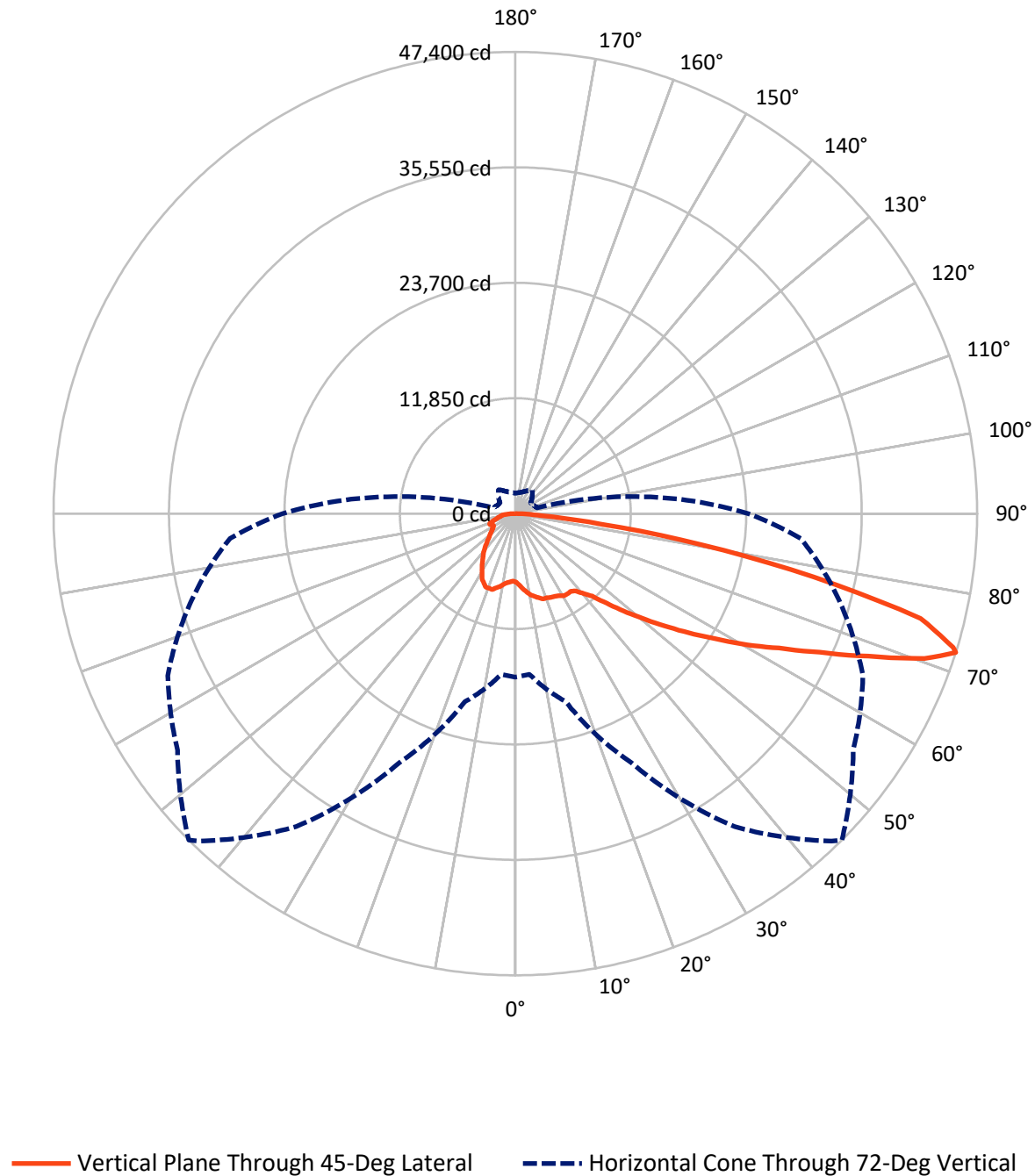


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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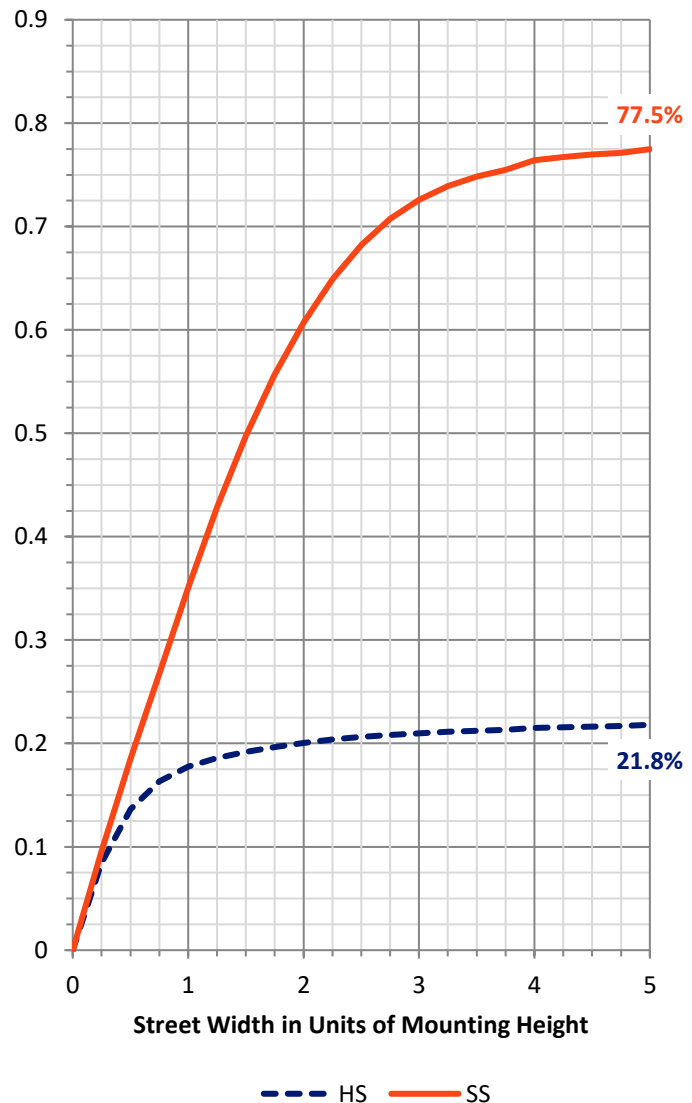
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15194.1	0.0	15194.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	53061.4	0.0	53061.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	68255.5	0.0	68255.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	1.1
10°-20°	2393.1	3.5
20°-30°	4041.2	5.9
30°-40°	5592.4	8.2
40°-50°	7999.3	11.7
50°-60°	12902.1	18.9
60°-70°	19028.7	27.9
70°-80°	13818.1	20.2
80°-90°	1761.5	2.6
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°	68255.5	100.0
0°-180°	68255.5	100.0

Coefficient of Utilization



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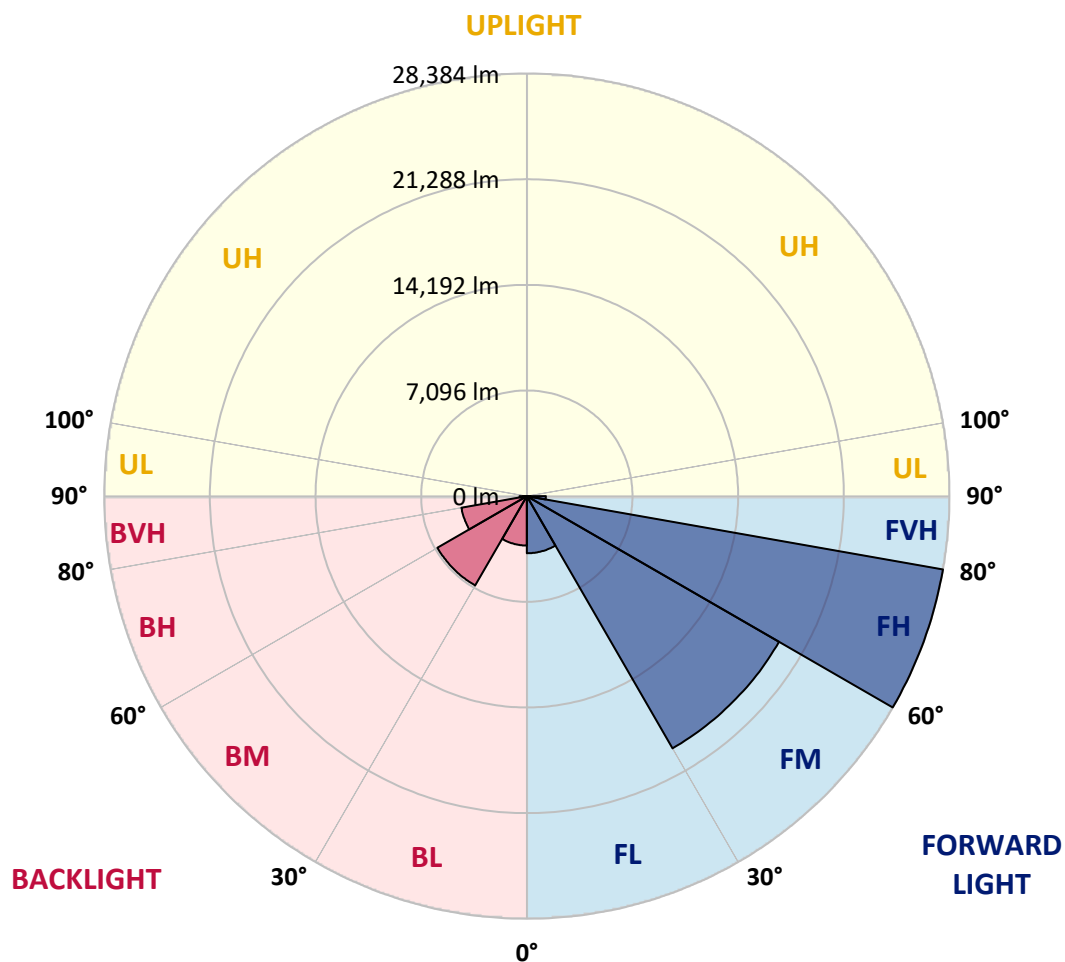
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3836.0	5.6			
FM	(30°-60°)	19559.6	28.7			
FH	(60°-80°)	28383.7	41.6			G5
FVH	(80°-90°)	1282.1	1.9			G5
BL	(0°-30°)	3317.5	4.9	B4/5000		
BM	(30°-60°)	6934.1	10.2	B4/8500		
BH	(60°-80°)	4463.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	479.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1
2.5°	7404.5	7448.6	7404.5	7397.1	7323.5	7272.0	7316.1	7249.9	7176.3	7146.8	7080.6
5°	8081.6	8089.0	8008.0	8015.4	7860.8	7698.9	7728.3	7529.6	7316.1	7235.2	7102.7
7.5°	8773.5	8692.5	8574.7	8537.9	8295.1	8118.4	8096.3	7919.7	7588.5	7404.5	7220.4
10°	9222.4	9251.9	9060.5	8898.6	8692.5	8479.1	8471.7	8140.5	7949.1	7676.8	7441.3
12.5°	9619.9	9627.3	9465.3	9207.7	8950.1	8685.1	8721.9	8574.7	8250.9	7993.3	7757.7
15°	9929.0	9884.9	9708.2	9472.7	9200.4	8994.3	8972.2	8847.1	8574.7	8361.3	7971.2
17.5°	10017.4	9995.3	9818.6	9568.4	9303.4	9148.8	9207.7	9001.6	8891.2	8699.9	8324.5
20°	9848.1	9796.6	9767.1	9487.4	9296.1	9281.3	9229.8	9274.0	9090.0	8913.3	8641.0
22.5°	9538.9	9516.9	9502.1	9281.3	9193.0	9259.2	9347.6	9413.8	9384.4	9215.1	8906.0
25°	9222.4	9325.5	9229.8	9126.8	9251.9	9421.2	9399.1	9612.5	9612.5	9561.0	9303.4
27.5°	9443.3	9377.0	9303.4	9251.9	9296.1	9561.0	9546.3	9803.9	9899.6	9803.9	9509.5
30°	9995.3	9929.0	9715.6	9487.4	9428.5	9715.6	9789.2	10017.4	10061.5	9826.0	9575.7
32.5°	11033.1	10996.3	10657.7	9987.9	9627.3	9789.2	9826.0	10083.6	10046.8	9899.6	9796.6
35°	12571.4	12446.3	11975.2	10841.7	10046.8	9884.9	9789.2	9995.3	10135.1	10061.5	9965.8
37.5°	14256.9	14117.0	13535.6	12100.3	10804.9	10142.5	10068.9	10238.2	10400.1	10363.3	10164.6
40°	15868.8	15868.8	15346.2	13675.4	11931.0	10768.1	10782.8	10591.5	10738.7	10672.4	10709.2
42.5°	17458.6	17399.7	17186.3	15522.9	13138.1	11813.3	11577.7	11099.3	11364.3	11342.2	11393.7
45°	19070.5	19026.4	18967.5	17245.2	14867.8	13226.4	13101.3	12240.2	12483.1	12380.0	12600.8
47.5°	20358.6	20410.1	20410.1	19166.2	16715.2	15110.7	14926.7	13565.0	14028.7	14080.2	14131.8
50°	21455.3	21477.3	21455.3	20998.9	18776.1	17267.2	16891.9	15508.1	15971.8	16376.7	16847.7
52.5°	22971.5	23000.9	22897.9	22721.2	21573.0	19534.2	19114.7	17576.4	18525.9	18952.8	19799.2
55°	24841.0	24620.2	24428.8	24561.3	24259.5	22029.4	21595.1	19710.9	21138.8	21705.5	23398.4
57.5°	25186.9	25378.3	25864.1	26916.6	27350.9	24458.3	24208.0	22331.1	24090.2	24583.4	27409.7
60°	26408.7	26092.2	27284.6	29566.3	30052.1	27623.2	27365.6	25201.6	27027.0	27542.2	31112.0
62.5°	27211.0	27196.3	28962.8	31671.3	32775.4	30905.9	30383.3	28933.3	30199.3	30699.8	35145.4
65°	26975.5	27188.9	30324.4	32907.9	35049.7	34637.5	34335.8	32142.4	33813.2	33769.0	37773.0
67.5°	24826.3	25429.8	29463.3	33798.5	38435.5	39186.2	39090.5	36654.3	36749.9	35815.2	38943.3
70°	21845.4	21639.3	25819.9	32871.1	40128.3	44581.3	44559.2	40010.6	39392.3	36264.2	35587.0
72°	16781.5	16553.3	19990.6	28226.7	39237.7	46737.9	47400.3	42336.4	39362.8	34402.0	29397.0
72.5°	15235.8	15037.1	18459.6	26570.7	38251.4	47297.2	46988.1	42424.7	39053.7	33526.1	27461.3
75°	7014.4	6786.2	9222.4	16266.2	29838.6	41909.5	42962.0	39701.4	34107.6	26688.4	16450.3
77.5°	2090.3	2024.1	2966.2	6565.4	17340.9	30876.4	31281.2	29956.4	23810.5	14617.5	6101.7
80°	1162.9	1170.3	1530.9	2458.3	7625.3	17848.7	19306.0	18503.8	11680.8	4828.4	2031.4
82.5°	647.7	684.5	956.8	1457.3	3503.5	8192.0	8817.6	8501.1	4224.8	2267.0	1111.4
85°	338.6	353.3	500.5	780.2	1987.3	2590.8	2664.4	2855.8	2193.4	1545.7	596.2
87.5°	132.5	132.5	184.0	323.9	736.0	802.3	721.3	875.9	1258.6	1001.0	294.4
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1	7029.1
2.5°	7139.5	7080.6	7073.2	6977.6	7007.0	6926.0	6933.4	6918.7	6926.0	6911.3	6874.5
5°	7102.7	7058.5	6933.4	7014.4	6940.8	7043.8	7124.8	7095.3	7117.4	7110.0	7117.4
7.5°	7154.2	7095.3	7080.6	7036.4	7102.7	7146.8	7213.1	7397.1	7382.4	7404.5	7448.6
10°	7308.8	7242.5	7198.4	7264.6	7227.8	7367.7	7441.3	7536.9	7706.2	7713.6	7625.3
12.5°	7610.5	7566.4	7478.1	7492.8	7617.9	7662.1	7706.2	7765.1	7875.5	7853.4	7934.4
15°	7956.5	7860.8	7809.3	7794.6	7824.0	7875.5	7868.2	7927.0	7985.9	8037.4	8015.4
17.5°	8206.7	8081.6	8096.3	8169.9	8162.6	8147.8	8052.2	8022.7	8052.2	8081.6	8066.9
20°	8464.3	8479.1	8368.7	8302.4	8273.0	8125.8	8052.2	7963.8	7875.5	7919.7	7985.9
22.5°	8788.2	8721.9	8560.0	8361.3	8214.1	8125.8	7897.6	7743.0	7743.0	7787.2	7765.1
25°	9156.2	9016.4	8736.7	8376.0	8192.0	7816.6	7654.7	7632.6	7573.7	7640.0	7669.4
27.5°	9443.3	9318.1	8935.4	8324.5	7816.6	7514.9	7419.2	7389.7	7485.4	7492.8	7610.5
30°	9561.0	9524.2	8964.8	8192.0	7433.9	6948.1	6889.2	7021.7	7124.8	7279.3	7286.7
32.5°	9715.6	9730.3	9009.0	7882.9	6933.4	6447.6	6359.3	6521.2	6815.6	6940.8	7036.4
35°	9973.2	10046.8	8972.2	7500.1	6403.5	5939.8	5925.0	5969.2	6256.2	6477.1	6602.2
37.5°	10422.2	10407.5	8964.8	7043.8	5983.9	5498.1	5380.4	5395.1	5586.5	5770.5	5748.4
40°	11025.7	10966.8	8942.8	6447.6	5439.3	5122.8	4924.0	4850.4	4835.7	4784.2	4798.9
42.5°	11850.1	11732.3	8935.4	5844.1	4946.1	4607.5	4467.7	4276.3	4136.5	3871.5	3886.2
45°	12998.3	12792.2	8744.0	5277.3	4460.3	4180.6	3967.2	3827.4	3525.6	3194.4	3194.4
47.5°	14772.1	14102.3	8751.4	4651.7	3989.3	3761.1	3613.9	3371.0	3047.2	2782.2	2752.7
50°	17385.0	15854.1	8501.1	4158.6	3606.5	3452.0	3297.4	3017.7	2708.6	2524.6	2546.7
52.5°	20756.0	18467.0	8493.8	3716.9	3304.8	3194.4	3025.1	2774.8	2546.7	2428.9	2384.7
55°	24774.7	21926.3	8758.7	3356.3	2995.6	2936.8	2863.2	2657.1	2436.3	2333.2	2325.9
57.5°	28889.2	25304.7	9185.6	3098.7	2730.7	2774.8	2723.3	2561.4	2384.7	2267.0	2252.2
60°	32547.2	27983.8	8324.5	2789.6	2495.1	2590.8	2664.4	2524.6	2428.9	2421.5	2370.0
62.5°	35307.3	29132.0	6329.9	2554.0	2370.0	2546.7	2745.4	2833.7	2789.6	2848.4	2855.8
65°	36315.7	28440.2	4357.3	2428.9	2274.3	2649.7	3091.3	3061.9	2804.3	2693.9	2752.7
67.5°	34902.5	25635.9	3231.2	2281.7	2208.1	2863.2	3290.1	2922.0	2531.9	2517.2	2473.1
70°	30015.3	21727.6	2635.0	2127.1	2097.7	2745.4	3201.7	2708.6	2384.7	2289.1	2244.9
72°	23913.6	16921.3	2311.1	2016.7	1921.0	2451.0	2995.6	2539.3	2259.6	2141.8	2090.3
72.5°	21830.6	15684.8	2267.0	1965.2	1884.2	2384.7	2892.6	2487.8	2230.2	2127.1	2046.2
75°	11975.2	8030.1	1994.6	1803.3	1589.8	2060.9	2679.1	2333.2	2105.0	1957.8	1943.1
77.5°	4453.0	3113.4	1722.3	1597.2	1376.4	1781.2	2436.3	2215.4	1913.7	1729.7	1692.9
80°	1707.6	1641.3	1405.8	1346.9	1155.6	1560.4	2244.9	1987.3	1626.6	1442.6	1383.7
82.5°	1037.8	956.8	1067.2	1052.5	883.2	1420.5	2112.4	1862.2	1442.6	1170.3	1133.5
85°	566.7	566.7	743.4	713.9	618.3	1133.5	1597.2	1236.5	912.7	750.7	765.5
87.5°	250.2	294.4	397.5	375.4	338.6	640.3	780.2	655.1	456.3	309.1	331.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)