

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: P977443

Luminaire Tested: **EPH-VN-08-E-735-U-T3**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977443
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-735-U-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67835.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - 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

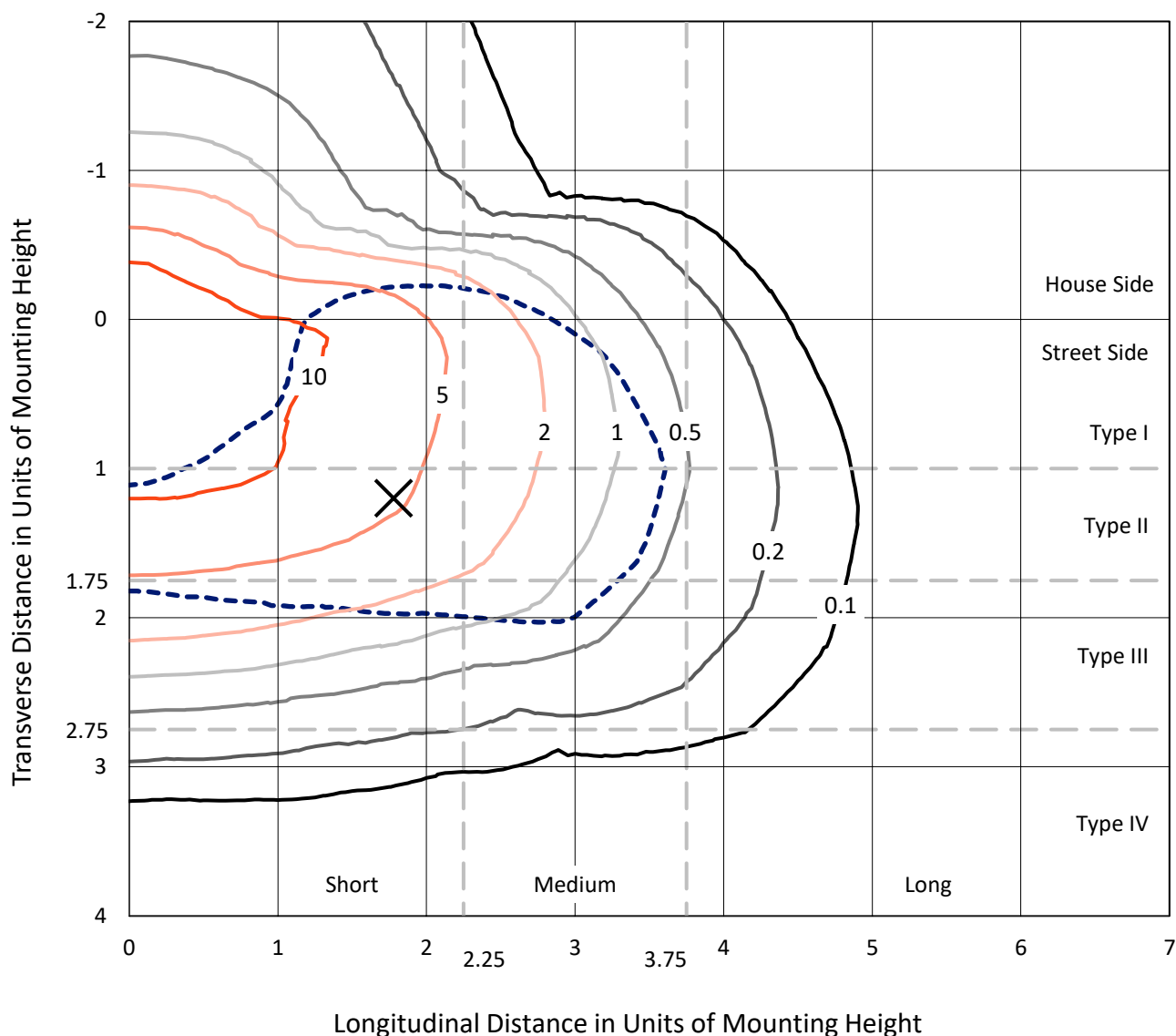
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

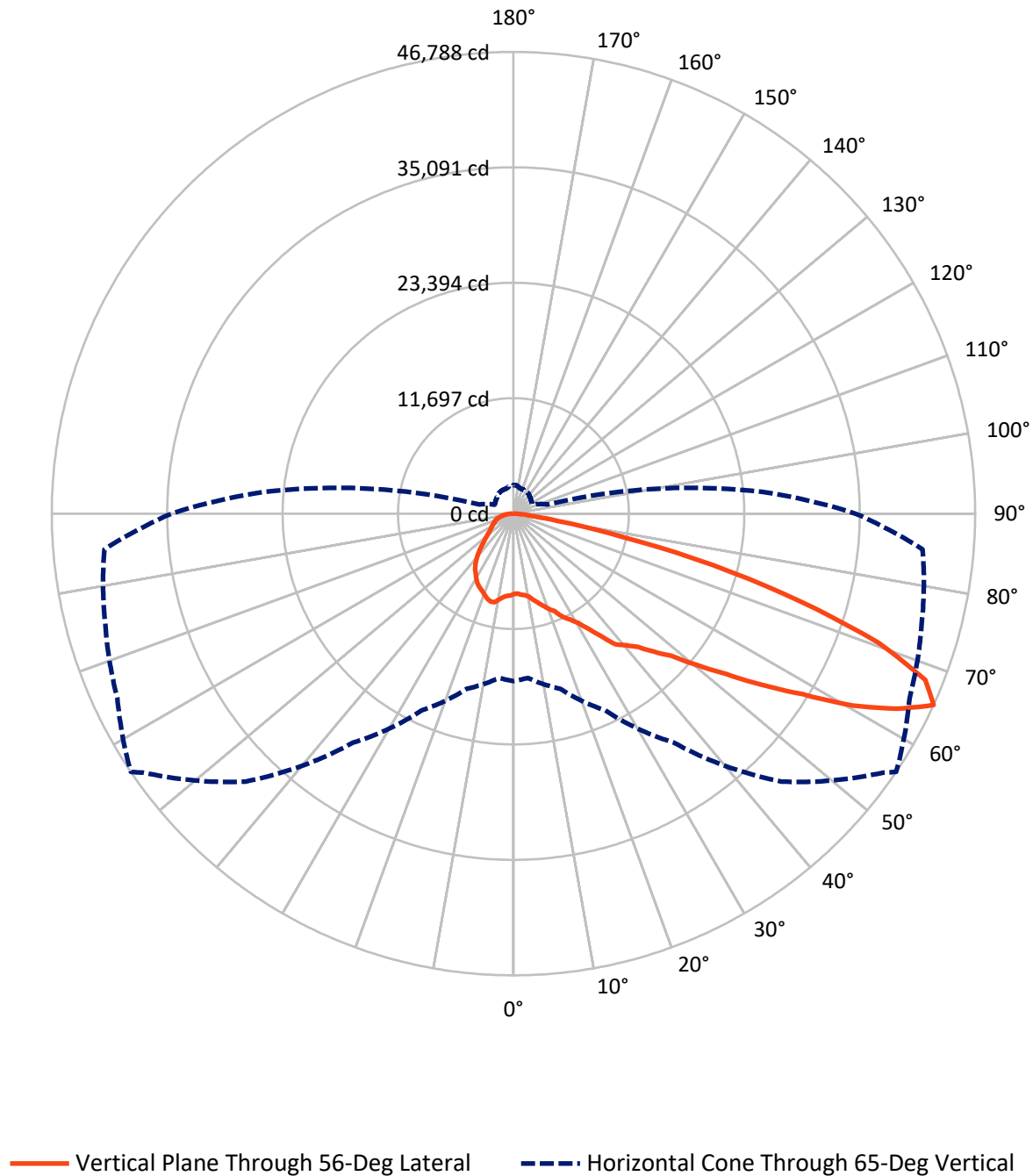


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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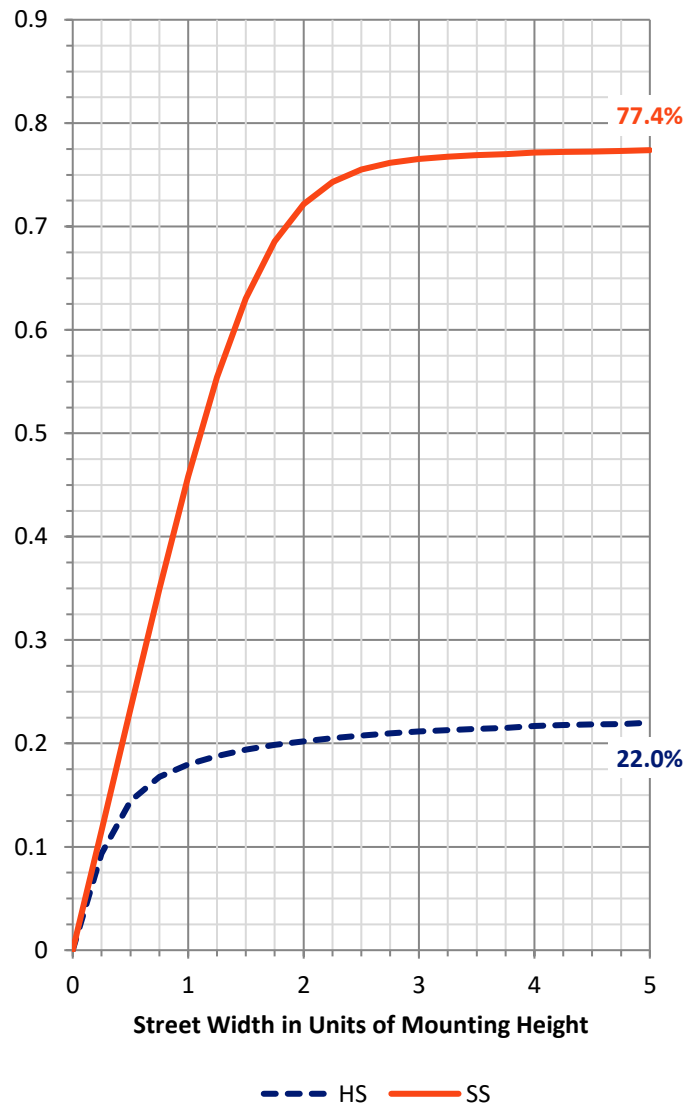
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15213.4	0.0	15213.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	52622.5	0.0	52622.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	67835.9	0.0	67835.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.9	1.2
10°-20°	2620.0	3.9
20°-30°	4665.1	6.9
30°-40°	6985.8	10.3
40°-50°	10350.4	15.3
50°-60°	15948.5	23.5
60°-70°	18055.7	26.6
70°-80°	7493.3	11.0
80°-90°	910.3	1.3
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°	67835.9	100.0
0°-180°	67835.9	100.0

Coefficient of Utilization



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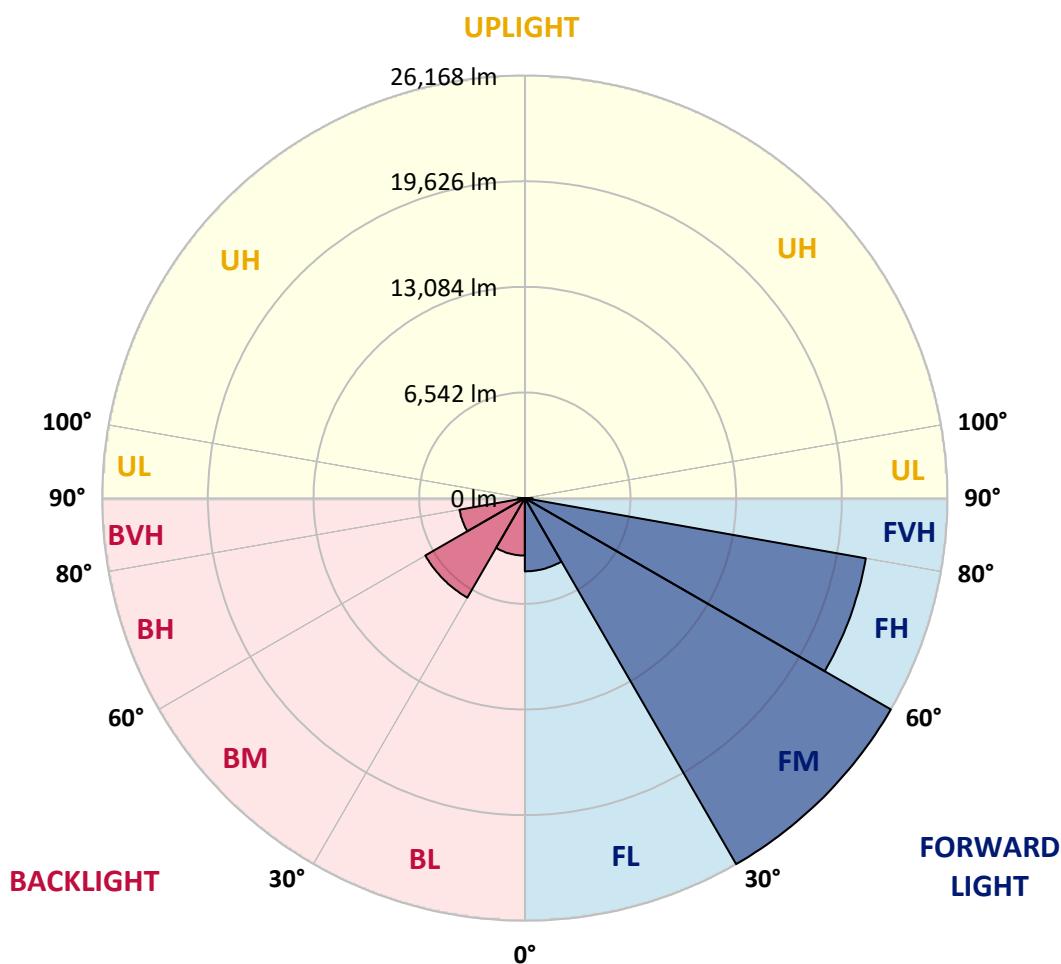
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4533.4	6.7			
FM	(30°-60°)	26168.1	38.6			
FH	(60°-80°)	21440.8	31.6			G5
FVH	(80°-90°)	480.2	0.7			G3/500
BL	(0°-30°)	3558.6	5.2	B4/5000		
BM	(30°-60°)	7116.6	10.5	B4/8500		
BH	(60°-80°)	4108.1	6.1	B4/5000		G4/5000
BVH	(80°-90°)	430.2	0.6			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2
2.5°	7929.3	7971.9	7943.5	8028.7	8099.7	8099.7	8156.4	8113.9	8170.6	8248.7	8284.2
5°	8191.9	8021.6	8113.9	8156.4	8135.1	8170.6	8113.9	8255.8	8163.5	8312.6	8348.1
7.5°	8255.8	8319.7	8397.8	8326.8	8390.7	8355.2	8362.3	8341.0	8291.3	8412.0	8397.8
10°	8724.3	8632.1	8809.5	8703.0	8688.9	8674.7	8646.3	8539.8	8660.5	8667.6	8738.5
12.5°	9263.8	9178.7	9171.6	9086.4	9200.0	8994.1	9036.7	8979.9	9001.2	9029.6	9008.3
15°	9654.3	9618.8	9782.1	9682.7	9533.6	9441.3	9540.7	9384.5	9462.6	9448.4	9405.8
17.5°	10428.0	10420.9	10300.3	10137.0	10051.8	9916.9	9895.6	9831.7	9888.5	9860.1	9924.0
20°	10967.5	11045.6	11066.9	10875.3	10548.7	10399.6	10364.2	10314.5	10378.3	10357.1	10286.1
22.5°	11791.0	11670.3	11762.6	11429.0	11308.3	10953.3	10825.6	10754.6	11059.8	10981.7	10676.5
25°	12316.3	12444.1	12351.8	12238.2	11968.5	11528.3	11436.1	11592.2	11712.9	11627.7	11109.5
27.5°	13501.8	13374.0	13288.8	12948.1	12770.6	12309.2	12202.7	12145.9	12174.3	12224.0	11450.3
30°	14403.3	14474.3	14282.7	14041.3	13594.1	13125.6	12877.1	12827.4	12728.0	12642.8	11968.5
32.5°	15688.2	15581.7	15468.1	15312.0	14928.6	14311.0	14069.7	13885.1	13587.0	13189.4	12458.3
35°	16305.8	16611.0	16525.9	16107.0	15816.0	15581.7	15510.7	15226.8	14978.3	14353.6	13281.7
37.5°	17335.1	17462.9	17342.2	17207.3	17072.5	16824.0	16738.8	16816.9	16327.1	15297.8	13771.5
40°	18002.4	18272.1	18520.6	18144.4	18116.0	18165.7	17640.4	17548.1	16540.1	16000.5	14907.3
42.5°	19365.3	19478.9	19528.6	19514.4	19677.7	19677.7	18676.8	18478.0	17761.0	17320.9	16589.7
45°	21168.4	21260.7	21438.2	21566.0	21381.4	21473.7	20046.8	19968.7	19329.9	19244.7	18506.4
47.5°	22730.1	22950.2	23347.7	23724.0	23965.3	23653.0	22091.3	21537.6	21374.3	21885.4	21111.6
50°	24093.1	23830.5	24760.4	25143.7	26201.4	26719.6	24348.7	24128.6	23865.9	24845.6	24469.3
52.5°	24228.0	24582.9	25896.2	26662.8	28842.2	29800.5	27117.2	27024.9	26705.4	27834.1	28253.0
55°	25193.4	25150.8	26471.2	28132.3	30723.3	32334.7	30723.3	30666.5	29970.9	31042.8	31781.0
57.5°	25030.1	25463.2	26506.7	28828.0	32419.9	35053.6	34904.5	34514.0	33541.5	34414.7	35735.0
60°	24476.4	24590.0	25860.7	28806.7	33406.6	37843.4	39419.3	39497.4	37509.7	38205.4	39781.3
62.5°	21338.8	21601.4	23212.9	26542.2	32703.9	39767.1	43827.6	43550.7	41960.6	41165.6	41641.2
65°	16973.1	16710.4	18385.7	21984.8	28331.0	38404.2	45758.4	46787.8	44289.0	42833.8	41619.9
67.5°	10406.7	10342.9	11954.3	15127.4	21196.8	32682.6	44218.0	45020.2	43643.0	42478.8	38226.7
70°	5359.5	5196.3	6204.3	8440.4	13324.3	23979.5	38482.2	39270.2	40583.5	38098.9	32079.2
72.5°	2498.8	2463.3	3002.8	4152.8	6786.4	14098.1	29800.5	30368.4	33136.9	32121.8	24469.3
75°	1469.4	1490.7	1796.0	2172.2	3308.0	6644.4	19777.1	20877.4	23880.1	23149.0	15581.7
77.5°	1100.3	1100.3	1277.8	1512.0	1930.9	2569.7	9760.8	11216.0	13963.2	12557.7	7496.3
80°	809.3	823.5	979.6	1135.8	1341.7	1327.5	3875.9	4543.2	6403.1	5473.1	2960.2
82.5°	631.8	653.1	759.6	844.7	944.1	802.2	1590.1	1710.8	2633.6	2094.1	1171.3
85°	440.1	454.3	596.3	575.0	575.0	447.2	660.2	695.7	1043.5	993.8	496.9
87.5°	106.5	120.7	291.0	319.4	241.4	134.9	205.9	234.3	376.2	433.0	213.0
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°	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2	8142.2
2.5°	8177.7	8206.1	8326.8	8262.9	8298.4	8149.3	8270.0	8170.6	8255.8	8213.2	8135.1
5°	8404.9	8341.0	8412.0	8362.3	8362.3	8419.1	8504.3	8440.4	8568.2	8511.4	8433.3
7.5°	8497.2	8504.3	8546.9	8554.0	8518.5	8695.9	8703.0	8681.8	8802.4	8774.0	8731.4
10°	8724.3	8731.4	8809.5	8852.1	8816.6	8880.5	8809.5	8752.7	8745.6	8717.2	8717.2
12.5°	9086.4	9157.4	9143.2	9178.7	9185.8	8916.0	8752.7	8475.9	8440.4	8475.9	8490.1
15°	9420.0	9391.6	9405.8	9476.8	9178.7	8745.6	8454.6	8220.3	8234.5	8241.6	8341.0
17.5°	9817.5	9838.8	9860.1	9533.6	8987.0	8475.9	8220.3	8220.3	8149.3	8177.7	8184.8
20°	10271.9	10186.7	10002.1	9540.7	8653.4	8163.5	8085.5	8085.5	8000.3	7943.5	7858.3
22.5°	10626.8	10456.4	10179.6	9320.6	8355.2	8042.9	7851.2	7716.3	7616.9	7503.4	7439.5
25°	10854.0	10761.7	10222.2	9093.5	8135.1	7723.4	7439.5	7233.6	7105.8	6956.8	6985.2
27.5°	11201.8	11024.3	10342.9	8830.8	7893.8	7404.0	6963.9	6644.4	6403.1	6246.9	6317.9
30°	11670.3	11414.8	10257.7	8454.6	7524.7	6850.3	6332.1	5920.3	5643.5	5515.7	5586.7
32.5°	12053.7	11720.0	10186.7	8113.9	7112.9	6289.5	5600.9	5182.1	5025.9	4862.6	4855.5
35°	12784.8	12124.6	10137.0	7922.2	6743.8	5728.7	5004.6	4642.6	4443.8	4202.5	4181.2
37.5°	13345.6	12827.4	10016.3	7524.7	6268.2	5182.1	4550.3	4223.7	3925.6	3670.0	3677.1
40°	14225.9	13807.0	10023.4	6963.9	5707.4	4713.6	4195.4	3854.6	3478.4	3258.3	3279.6
42.5°	15879.9	14772.5	10066.0	6516.6	5075.6	4330.2	3875.9	3471.3	3095.0	2910.5	2924.7
45°	17910.1	16099.9	9803.4	6112.0	4429.6	3968.2	3492.6	3087.9	2846.6	2711.7	2740.1
47.5°	20245.6	17399.0	9448.4	5352.4	3890.1	3584.9	3137.6	2903.4	2725.9	2647.8	2633.6
50°	22857.9	19258.9	9349.0	4656.8	3471.3	3258.3	2967.3	2789.8	2669.1	2576.8	2591.0
52.5°	26222.7	21424.0	9150.3	3939.8	3109.2	2995.7	2903.4	2782.7	2676.2	2598.1	2591.0
55°	29438.5	23823.4	8937.3	3350.6	2853.7	2867.9	2917.6	2811.1	2718.8	2598.1	2591.0
57.5°	33058.8	26272.4	8149.3	2917.6	2662.0	2804.0	2903.4	2782.7	2690.4	2598.1	2591.0
60°	35294.9	27649.6	6608.9	2541.3	2491.7	2683.3	2818.2	2690.4	2591.0	2626.5	2598.1
62.5°	36203.5	26925.5	4983.3	2307.1	2371.0	2520.1	2683.3	2633.6	2562.6	2697.5	2662.0
65°	34656.0	25257.3	3563.6	2108.3	2207.7	2356.8	2562.6	2619.4	2640.7	2903.4	2903.4
67.5°	30836.9	21991.9	2619.4	1945.1	2037.3	2257.4	2647.8	2740.1	2725.9	3052.5	3073.8
70°	24675.2	17200.2	2044.4	1810.2	1973.4	2335.5	2768.5	2768.5	2669.1	3052.5	2988.6
72.5°	17952.7	12124.6	1760.5	1654.0	1810.2	2143.8	2754.3	2747.2	2619.4	2789.8	2690.4
75°	10868.2	7056.1	1554.6	1497.8	1554.6	1838.6	2633.6	2591.0	2413.6	2399.4	2371.0
77.5°	5416.3	3549.4	1270.7	1327.5	1355.9	1540.4	2314.2	2378.1	2136.7	2079.9	2044.4
80°	2285.8	1547.5	1057.7	1142.9	1142.9	1299.1	1923.8	1966.3	1774.7	1668.2	1632.7
82.5°	1043.5	887.3	901.5	993.8	929.9	1008.0	1526.2	1575.9	1441.0	1263.6	1235.2
85°	440.1	504.0	688.6	780.9	688.6	653.1	1050.6	1107.4	937.0	780.9	788.0
87.5°	198.8	276.9	433.0	567.9	347.8	305.2	560.8	582.1	468.5	347.8	326.5
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)