

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: P977460

Luminaire Tested: **EPH-VN-08-E-750-U-T4W**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977460
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-750-U-T4W
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69818.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

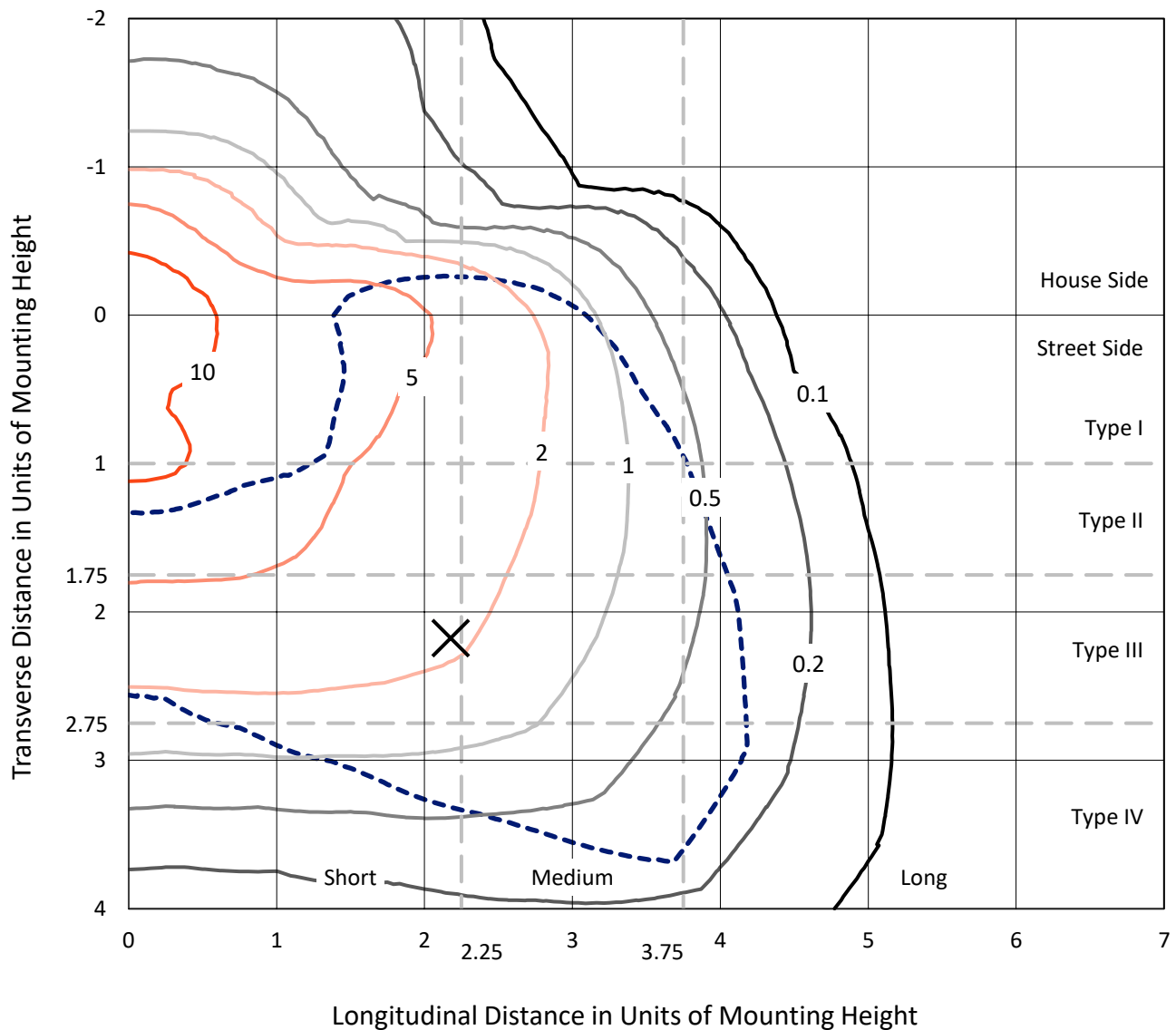
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

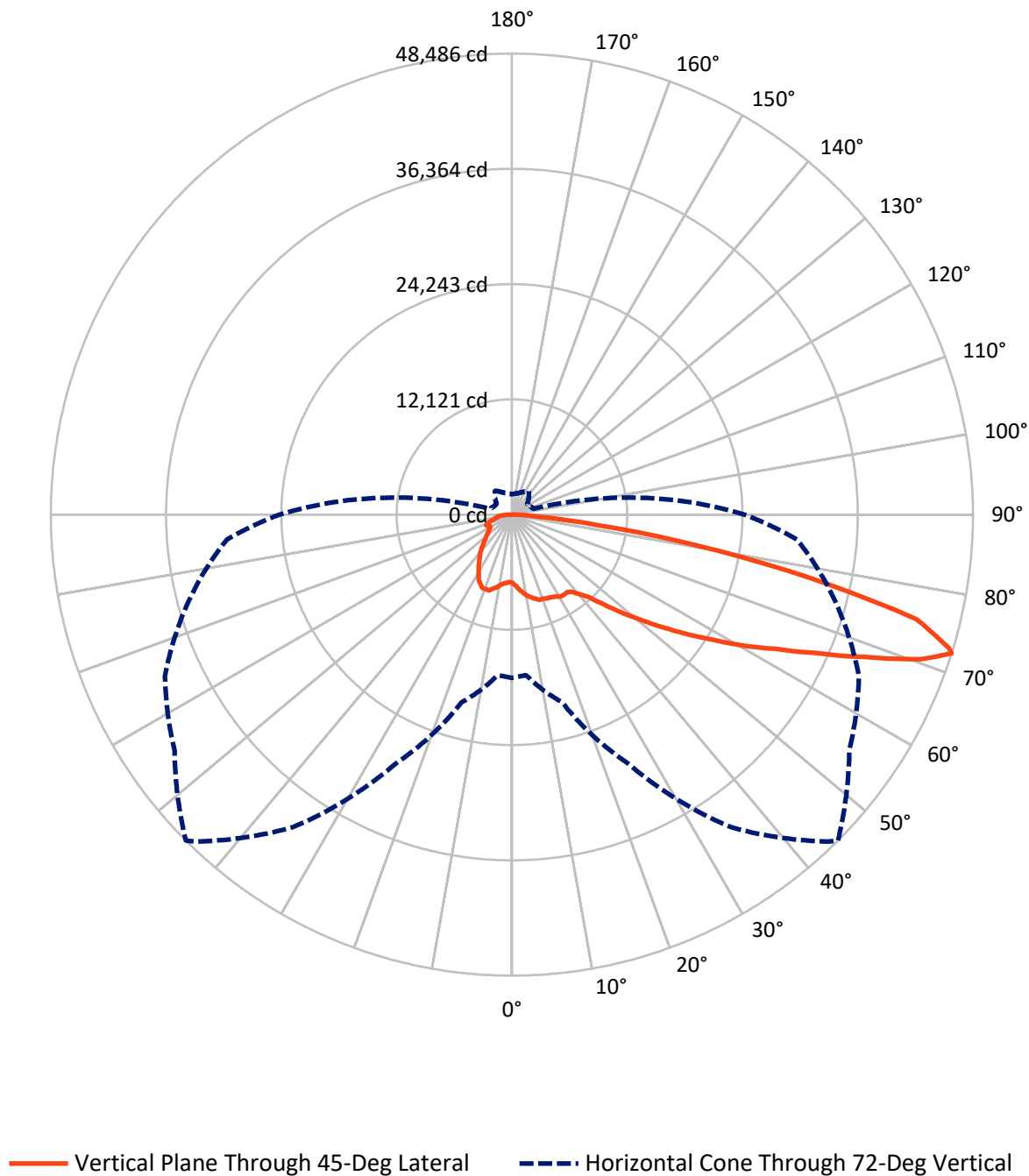


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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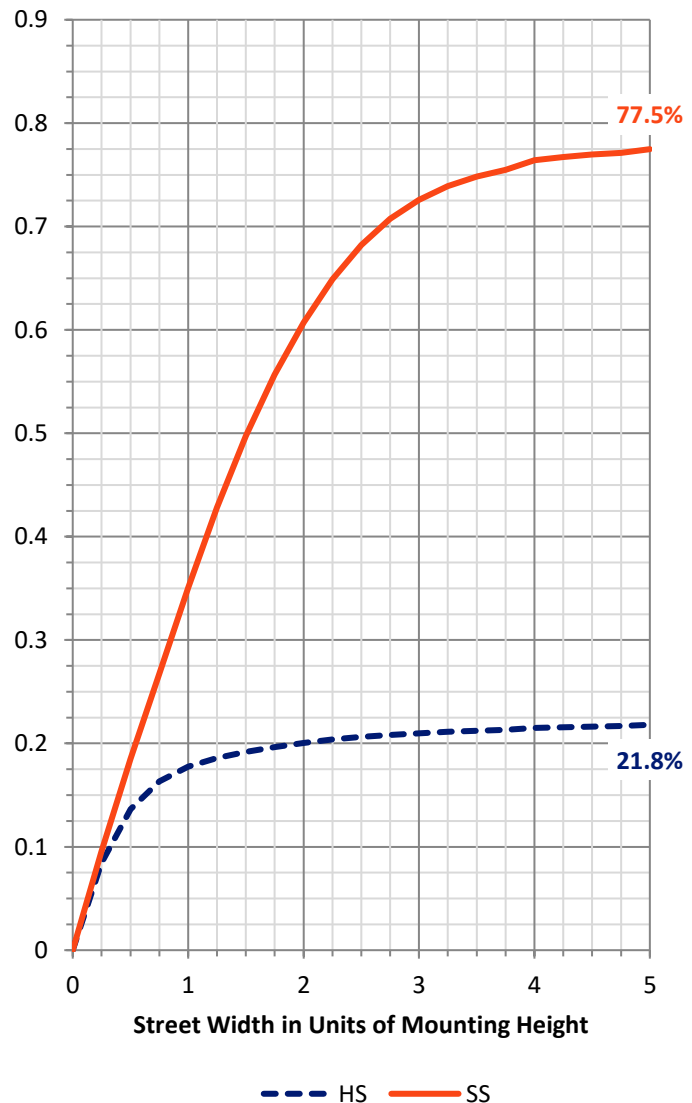
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15542.0	0.0	15542.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	54276.5	0.0	54276.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	69818.5	0.0	69818.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.7	1.1
10°-20°	2447.9	3.5
20°-30°	4133.7	5.9
30°-40°	5720.4	8.2
40°-50°	8182.5	11.7
50°-60°	13197.5	18.9
60°-70°	19464.4	27.9
70°-80°	14134.5	20.2
80°-90°	1801.8	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°	69818.5	100.0
0°-180°	69818.5	100.0

Coefficient of Utilization



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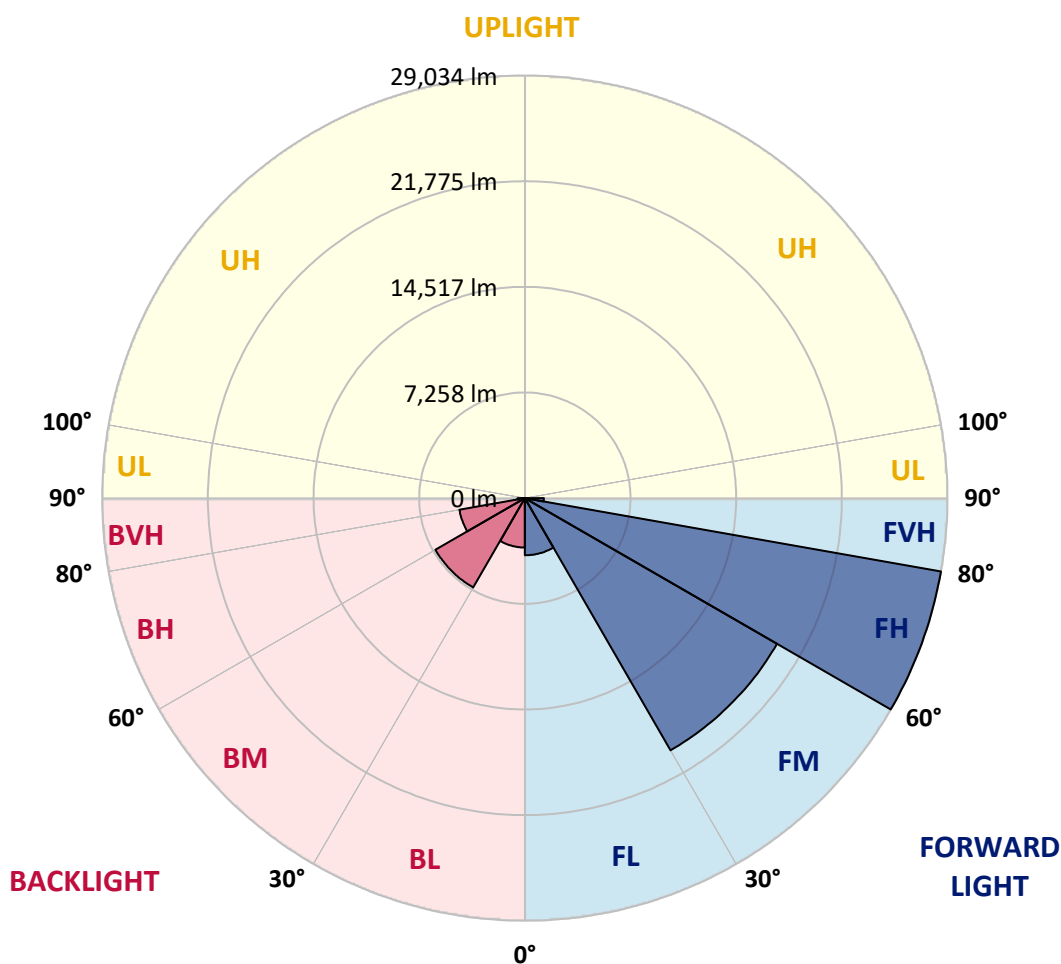
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3923.8	5.6			
FM	(30°-60°)	20007.6	28.7			
FH	(60°-80°)	29033.7	41.6			G5
FVH	(80°-90°)	1311.5	1.9			G5
BL	(0°-30°)	3393.5	4.9	B4/5000		
BM	(30°-60°)	7092.9	10.2	B4/8500		
BH	(60°-80°)	4565.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	490.3	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°	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0
2.5°	7574.0	7619.2	7574.0	7566.5	7491.2	7438.5	7483.7	7415.9	7340.6	7310.5	7242.7
5°	8266.7	8274.2	8191.4	8198.9	8040.8	7875.2	7905.3	7702.0	7483.7	7400.9	7265.3
7.5°	8974.4	8891.6	8771.1	8733.5	8485.0	8304.3	8281.7	8101.0	7762.2	7574.0	7385.8
10°	9433.6	9463.8	9268.0	9102.4	8891.6	8673.2	8665.7	8326.9	8131.2	7852.6	7611.7
12.5°	9840.2	9847.7	9682.1	9418.6	9155.1	8884.0	8921.7	8771.1	8439.8	8176.3	7935.4
15°	10156.4	10111.2	9930.5	9689.6	9411.1	9200.2	9177.7	9049.7	8771.1	8552.8	8153.7
17.5°	10246.8	10224.2	10043.5	9787.5	9516.5	9358.4	9418.6	9207.8	9094.8	8899.1	8515.1
20°	10073.6	10020.9	9990.8	9704.7	9508.9	9493.9	9441.2	9486.3	9298.1	9117.4	8838.9
22.5°	9757.4	9734.8	9719.7	9493.9	9403.5	9471.3	9561.6	9629.4	9599.3	9426.1	9109.9
25°	9433.6	9539.0	9441.2	9335.8	9463.8	9636.9	9614.3	9832.7	9832.7	9780.0	9516.5
27.5°	9659.5	9591.7	9516.5	9463.8	9508.9	9780.0	9764.9	10028.4	10126.3	10028.4	9727.3
30°	10224.2	10156.4	9938.1	9704.7	9644.4	9938.1	10013.4	10246.8	10291.9	10051.0	9795.0
32.5°	11285.7	11248.1	10901.8	10216.6	9847.7	10013.4	10051.0	10314.5	10276.9	10126.3	10020.9
35°	12859.3	12731.3	12249.4	11090.0	10276.9	10111.2	10013.4	10224.2	10367.2	10291.9	10194.1
37.5°	14583.4	14440.3	13845.5	12377.4	11052.3	10374.7	10299.5	10472.6	10638.3	10600.6	10397.3
40°	16232.2	16232.2	15697.6	13988.6	12204.3	11014.7	11029.8	10834.0	10984.6	10916.8	10954.5
42.5°	17858.4	17798.2	17579.9	15878.3	13439.0	12083.8	11842.9	11353.5	11624.5	11601.9	11654.7
45°	19507.2	19462.1	19401.8	17640.1	15208.3	13529.3	13401.3	12520.5	12768.9	12663.5	12889.4
47.5°	20824.8	20877.5	20877.5	19605.1	17098.0	15456.7	15268.5	13875.7	14350.0	14402.7	14455.4
50°	21946.6	21969.2	21946.6	21479.8	19206.1	17662.7	17278.7	15863.3	16337.6	16751.7	17233.5
52.5°	23497.5	23527.6	23422.2	23241.5	22067.0	19981.6	19552.4	17978.9	18950.1	19386.8	20252.6
55°	25409.8	25184.0	24988.2	25123.8	24815.1	22533.8	22089.6	20162.2	21622.8	22202.6	23934.2
57.5°	25763.7	25959.5	26456.4	27533.0	27977.2	25018.3	24762.4	22842.5	24641.9	25146.3	28037.4
60°	27013.5	26689.8	27909.4	30243.4	30740.3	28255.8	27992.2	25778.8	27645.9	28172.9	31824.4
62.5°	27834.1	27819.1	29626.0	32396.6	33525.9	31613.6	31079.1	29595.9	30890.8	31402.8	35950.2
65°	27593.2	27811.6	31018.8	33661.5	35852.4	35430.7	35122.1	32878.5	34587.5	34542.3	38638.0
67.5°	25394.8	26012.2	30138.0	34572.5	39315.6	40083.6	39985.7	37493.6	37591.5	36635.4	39835.1
70°	22345.6	22134.8	26411.2	33623.8	41047.3	45602.2	45579.6	40926.8	40294.4	37094.6	36402.0
72°	17165.8	16932.4	20448.3	28873.1	40136.3	47808.2	48485.8	43305.9	40264.3	35189.8	30070.2
72.5°	15584.7	15381.4	18882.3	27179.1	39127.4	48380.4	48064.1	43396.3	39948.0	34293.9	28090.1
75°	7175.0	6941.6	9433.6	16638.7	30521.9	42869.2	43945.9	40610.6	34888.7	27299.6	16827.0
77.5°	2138.2	2070.4	3034.1	6715.7	17738.0	31583.5	31997.6	30642.4	24355.8	14952.3	6241.4
80°	1189.6	1197.1	1566.0	2514.6	7799.9	18257.4	19748.2	18927.5	11948.3	4938.9	2078.0
82.5°	662.5	700.2	978.7	1490.7	3583.7	8379.6	9019.6	8695.8	4321.6	2318.9	1136.9
85°	346.3	361.4	512.0	798.1	2032.8	2650.2	2725.4	2921.2	2243.6	1581.1	609.8
87.5°	135.5	135.5	188.2	331.3	752.9	820.6	737.8	895.9	1287.4	1023.9	301.2
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°	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0	7190.0
2.5°	7303.0	7242.7	7235.2	7137.3	7167.5	7084.6	7092.2	7077.1	7084.6	7069.6	7031.9
5°	7265.3	7220.2	7092.2	7175.0	7099.7	7205.1	7287.9	7257.8	7280.4	7272.9	7280.4
7.5°	7318.0	7257.8	7242.7	7197.6	7265.3	7310.5	7378.3	7566.5	7551.4	7574.0	7619.2
10°	7476.1	7408.4	7363.2	7431.0	7393.3	7536.4	7611.7	7709.5	7882.7	7890.2	7799.9
12.5°	7784.8	7739.7	7649.3	7664.4	7792.4	7837.5	7882.7	7942.9	8055.9	8033.3	8116.1
15°	8138.7	8040.8	7988.1	7973.0	8003.2	8055.9	8048.3	8108.6	8168.8	8221.5	8198.9
17.5°	8394.7	8266.7	8281.7	8357.0	8349.5	8334.4	8236.6	8206.4	8236.6	8266.7	8251.6
20°	8658.2	8673.2	8560.3	8492.5	8462.4	8311.8	8236.6	8146.2	8055.9	8101.0	8168.8
22.5°	8989.4	8921.7	8756.0	8552.8	8402.2	8311.8	8078.4	7920.3	7920.3	7965.5	7942.9
25°	9365.9	9222.8	8936.7	8567.8	8379.6	7995.6	7830.0	7807.4	7747.2	7814.9	7845.1
27.5°	9659.5	9531.5	9140.0	8515.1	7995.6	7686.9	7589.1	7559.0	7656.8	7664.4	7784.8
30°	9780.0	9742.3	9170.1	8379.6	7604.1	7107.2	7047.0	7182.5	7287.9	7446.0	7453.6
32.5°	9938.1	9953.1	9215.3	8063.4	7092.2	6595.3	6504.9	6670.6	6971.7	7099.7	7197.6
35°	10201.6	10276.9	9177.7	7671.9	6550.1	6075.8	6060.7	6105.9	6399.5	6625.4	6753.4
37.5°	10660.8	10645.8	9170.1	7205.1	6121.0	5624.0	5503.6	5518.6	5714.4	5902.6	5880.0
40°	11278.2	11218.0	9147.5	6595.3	5563.8	5240.1	5036.8	4961.5	4946.5	4893.7	4908.8
42.5°	12121.4	12001.0	9140.0	5977.9	5059.4	4713.1	4570.0	4374.3	4231.2	3960.2	3975.2
45°	13295.9	13085.1	8944.3	5398.2	4562.5	4276.4	4058.0	3915.0	3606.3	3267.5	3267.5
47.5°	15110.4	14425.3	8951.8	4758.2	4080.6	3847.2	3696.7	3448.2	3116.9	2845.9	2815.8
50°	17783.1	16217.1	8695.8	4253.8	3689.1	3531.0	3372.9	3086.8	2770.6	2582.4	2605.0
52.5°	21231.3	18889.9	8688.3	3802.1	3380.5	3267.5	3094.4	2838.4	2605.0	2484.5	2439.3
55°	25342.1	22428.4	8959.3	3433.2	3064.2	3004.0	2928.7	2717.9	2492.0	2386.6	2379.1
57.5°	29550.7	25884.2	9396.0	3169.6	2793.2	2838.4	2785.7	2620.0	2439.3	2318.9	2303.8
60°	33292.5	28624.7	8515.1	2853.4	2552.3	2650.2	2725.4	2582.4	2484.5	2477.0	2424.3
62.5°	36115.9	29799.2	6474.8	2612.5	2424.3	2605.0	2808.3	2898.6	2853.4	2913.7	2921.2
65°	37147.3	29091.5	4457.1	2484.5	2326.4	2710.4	3162.1	3132.0	2868.5	2755.6	2815.8
67.5°	35701.8	26223.0	3305.2	2333.9	2258.7	2928.7	3365.4	2989.0	2589.9	2574.9	2529.7
70°	30702.6	22225.1	2695.3	2175.8	2145.7	2808.3	3275.0	2770.6	2439.3	2341.5	2296.3
72°	24461.2	17308.8	2364.1	2062.9	1965.0	2507.1	3064.2	2597.5	2311.4	2190.9	2138.2
72.5°	22330.6	16044.0	2318.9	2010.2	1927.4	2439.3	2958.8	2544.7	2281.2	2175.8	2093.0
75°	12249.4	8214.0	2040.3	1844.6	1626.2	2108.1	2740.5	2386.6	2153.2	2002.7	1987.6
77.5°	4555.0	3184.7	1761.7	1633.8	1407.9	1822.0	2492.0	2266.2	1957.5	1769.3	1731.6
80°	1746.7	1678.9	1438.0	1377.8	1182.0	1596.1	2296.3	2032.8	1663.9	1475.7	1415.4
82.5°	1061.6	978.7	1091.7	1076.6	903.5	1453.1	2160.8	1904.8	1475.7	1197.1	1159.4
85°	579.7	579.7	760.4	730.3	632.4	1159.4	1633.8	1264.8	933.6	767.9	783.0
87.5°	256.0	301.2	406.6	384.0	346.3	655.0	798.1	670.1	466.8	316.2	338.8
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)