

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: P977446

Luminaire Tested: **EPH-VN-08-E-760-U-T3**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977446
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-760-U-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70353.2 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

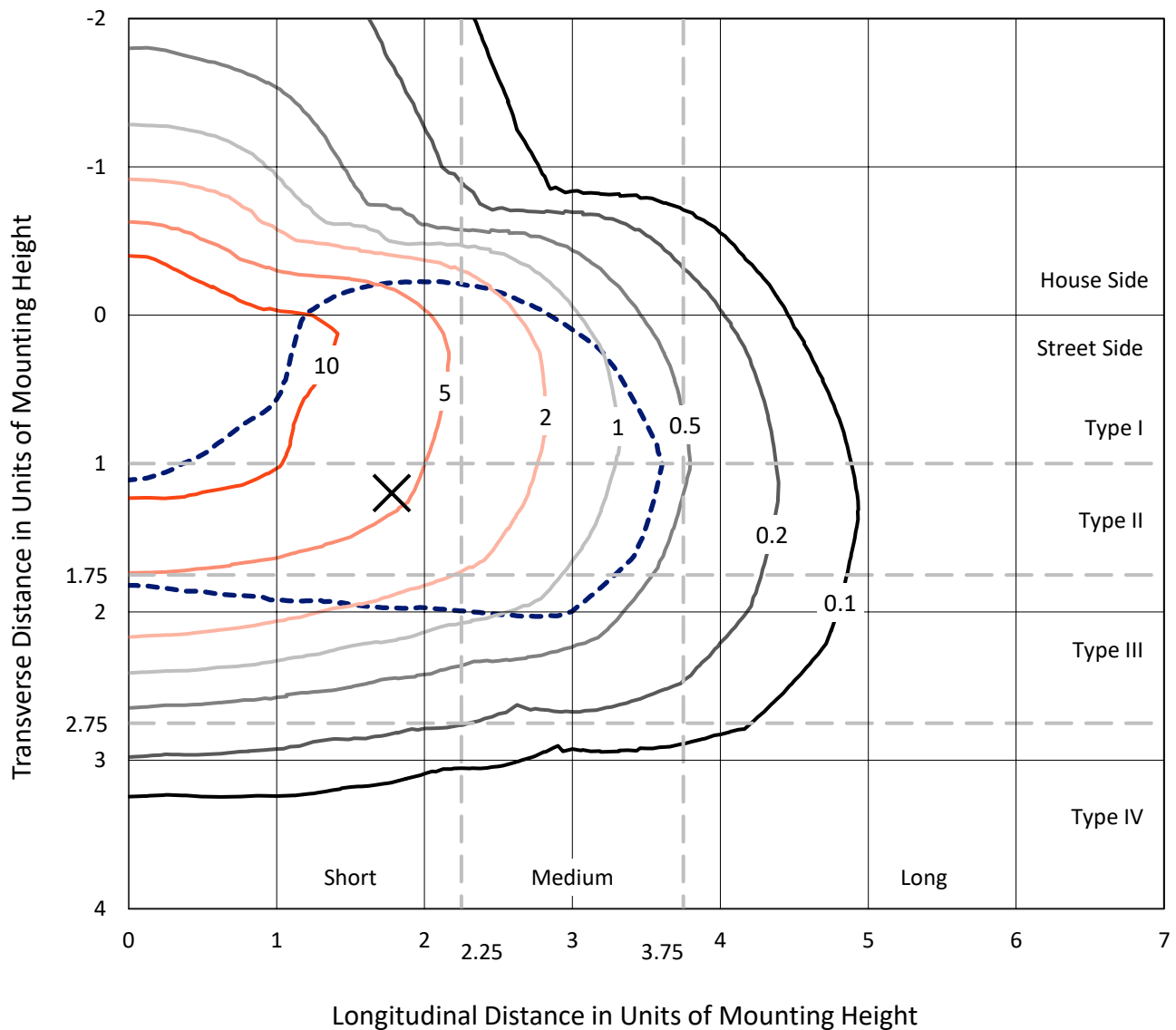
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

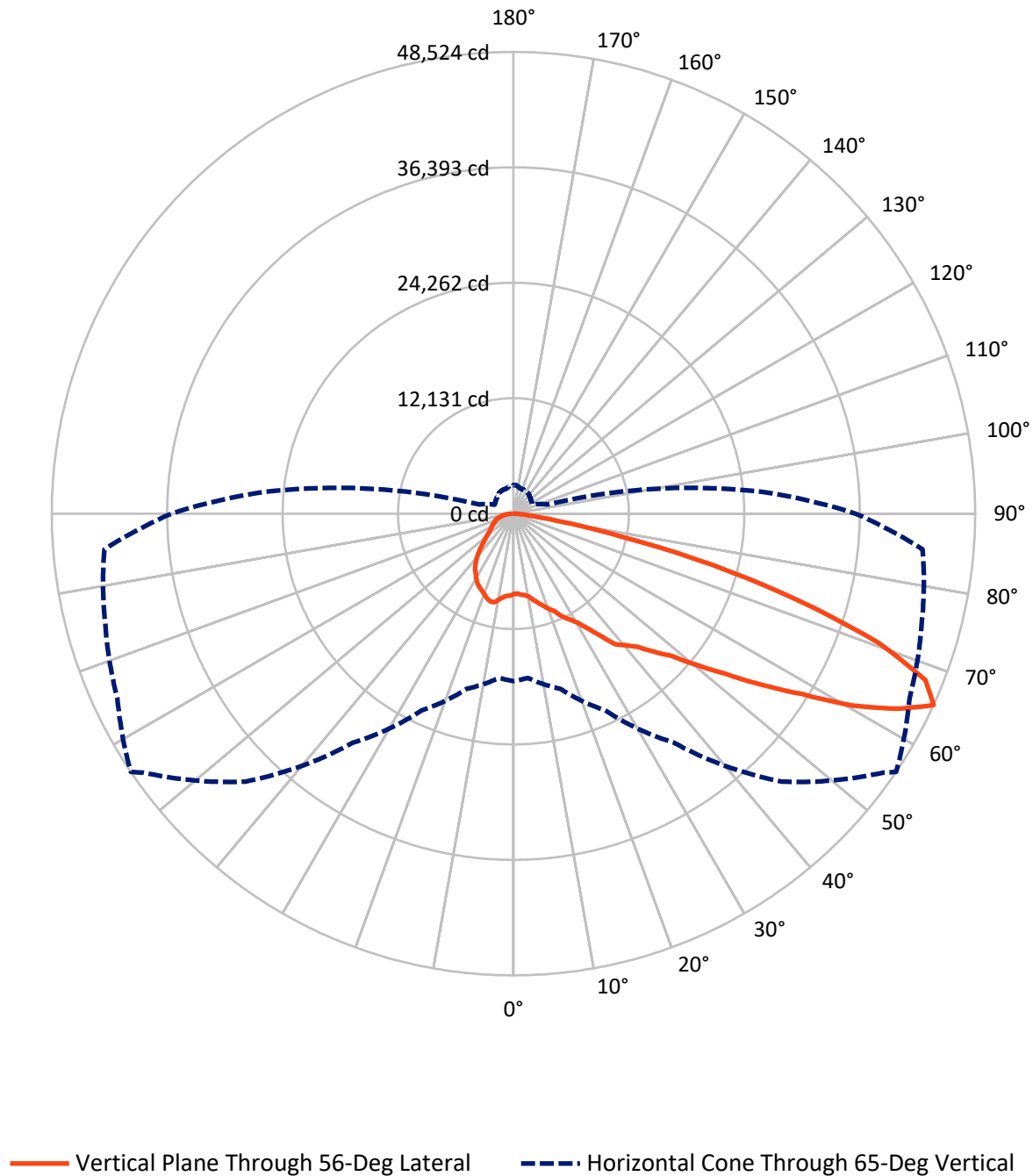
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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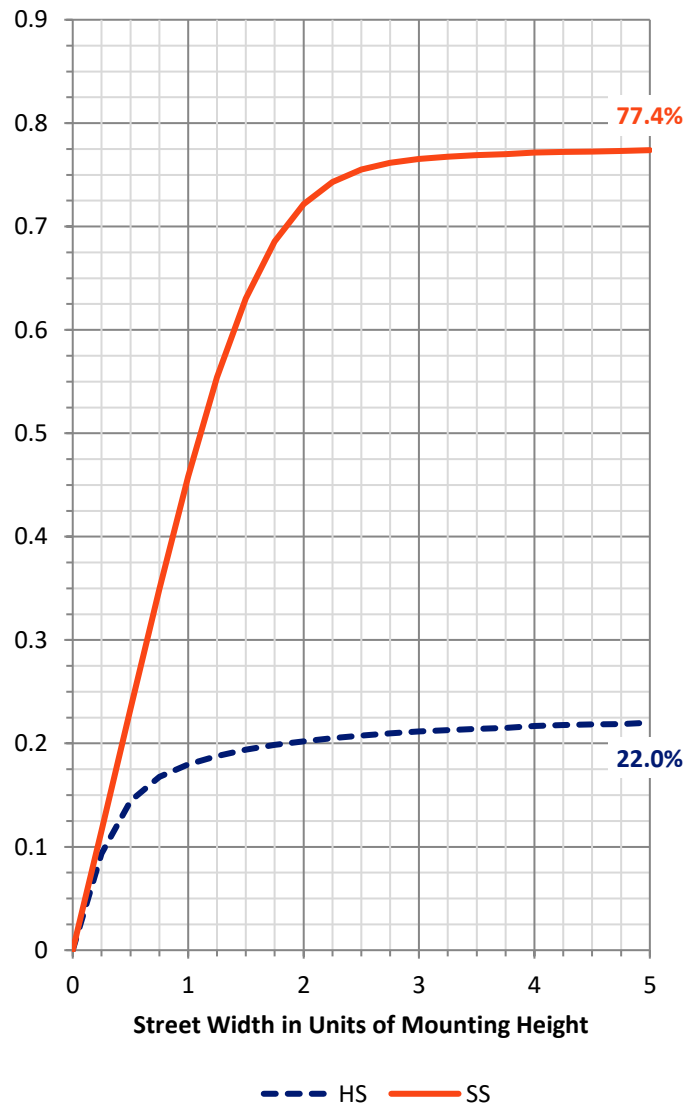
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15778.0	0.0	15778.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	54575.3	0.0	54575.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	70353.2	0.0	70353.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.8	1.2
10°-20°	2717.2	3.9
20°-30°	4838.2	6.9
30°-40°	7245.1	10.3
40°-50°	10734.5	15.3
50°-60°	16540.3	23.5
60°-70°	18725.7	26.6
70°-80°	7771.3	11.0
80°-90°	944.1	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°	70353.2	100.0
0°-180°	70353.2	100.0

Coefficient of Utilization



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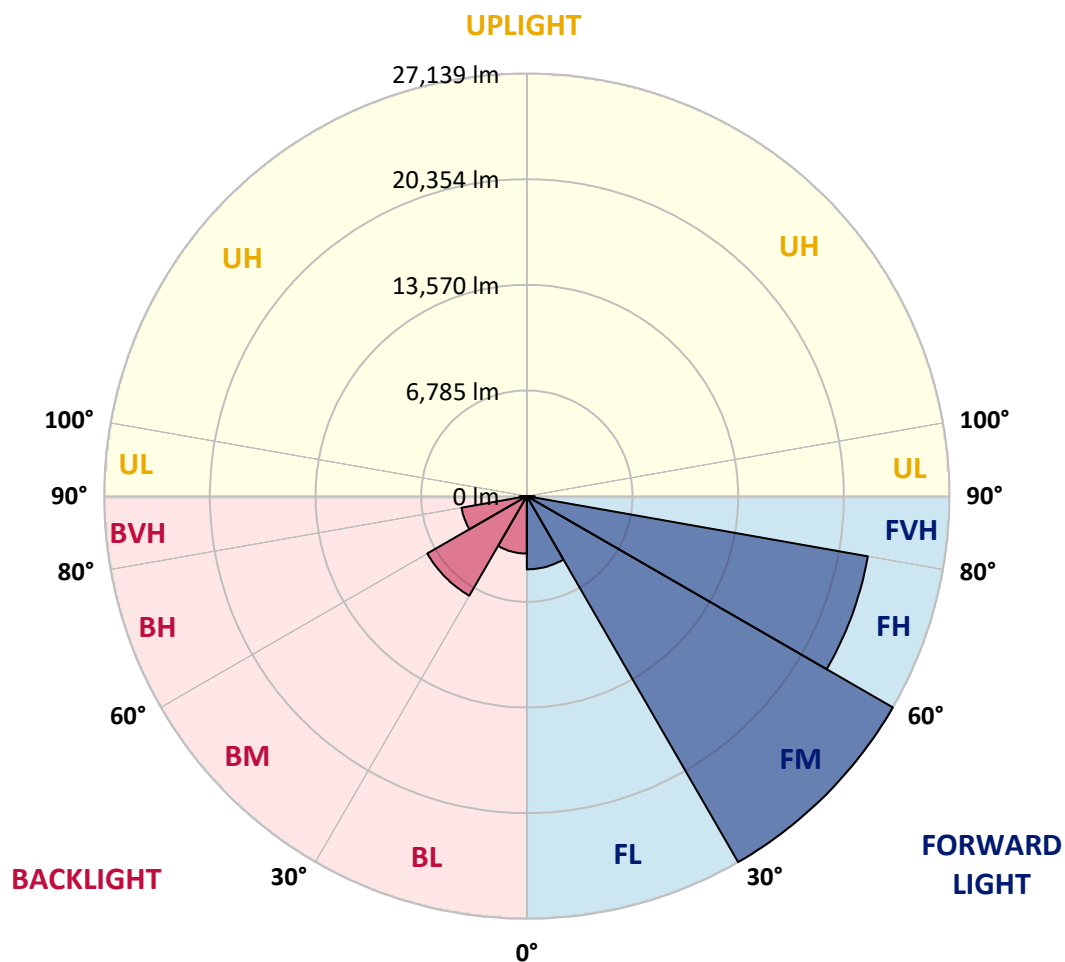
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4701.6	6.7			
FM	(30°-60°)	27139.2	38.6			
FH	(60°-80°)	22236.4	31.6			G5
FVH	(80°-90°)	498.0	0.7			G3/500
BL	(0°-30°)	3690.6	5.2	B4/5000		
BM	(30°-60°)	7380.6	10.5	B4/8500		
BH	(60°-80°)	4260.6	6.1	B4/5000		G4/5000
BVH	(80°-90°)	446.1	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°	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4
2.5°	8223.5	8267.7	8238.3	8326.6	8400.2	8400.2	8459.1	8414.9	8473.8	8554.8	8591.6
5°	8495.9	8319.2	8414.9	8459.1	8437.0	8473.8	8414.9	8562.2	8466.5	8621.1	8657.9
7.5°	8562.2	8628.4	8709.4	8635.8	8702.1	8665.3	8672.6	8650.5	8599.0	8724.2	8709.4
10°	9048.1	8952.4	9136.4	9026.0	9011.3	8996.6	8967.1	8856.7	8981.8	8989.2	9062.8
12.5°	9607.6	9519.3	9511.9	9423.6	9541.4	9327.9	9372.0	9313.1	9335.2	9364.7	9342.6
15°	10012.5	9975.7	10145.1	10042.0	9887.4	9791.7	9894.7	9732.8	9813.8	9799.0	9754.9
17.5°	10815.0	10807.6	10682.5	10513.2	10424.8	10284.9	10262.8	10196.6	10255.5	10226.0	10292.3
20°	11374.5	11455.5	11477.6	11278.8	10940.2	10785.6	10748.7	10697.2	10763.5	10741.4	10667.8
22.5°	12228.5	12103.4	12199.1	11853.1	11727.9	11359.8	11227.3	11153.7	11470.2	11389.3	11072.7
25°	12773.3	12905.9	12810.2	12692.4	12412.6	11956.1	11860.4	12022.4	12147.6	12059.2	11521.8
27.5°	14002.8	13870.3	13782.0	13428.6	13244.5	12766.0	12655.5	12596.7	12626.1	12677.6	11875.2
30°	14937.8	15011.4	14812.7	14562.3	14098.5	13612.6	13355.0	13303.4	13200.3	13112.0	12412.6
32.5°	16270.4	16159.9	16042.1	15880.2	15482.6	14842.1	14591.8	14400.4	14091.2	13678.9	12920.6
35°	16910.9	17227.4	17139.1	16704.7	16402.9	16159.9	16086.3	15791.8	15534.2	14886.3	13774.6
37.5°	17978.4	18110.9	17985.7	17845.9	17706.0	17448.3	17360.0	17440.9	16933.0	15865.4	14282.6
40°	18670.4	18950.2	19207.9	18817.7	18788.2	18839.8	18295.0	18199.3	17153.8	16594.3	15460.5
42.5°	20084.0	20201.8	20253.3	20238.6	20407.9	20407.9	19369.8	19163.7	18420.1	17963.7	17205.4
45°	21954.0	22049.7	22233.7	22366.2	22174.8	22270.5	20790.7	20709.7	20047.2	19958.8	19193.1
47.5°	23573.6	23801.9	24214.1	24604.3	24854.6	24530.7	22911.0	22336.8	22167.5	22697.5	21895.1
50°	24987.2	24714.8	25679.2	26076.8	27173.7	27711.2	25252.2	25024.0	24751.6	25767.5	25377.4
52.5°	25127.0	25495.1	26857.1	27652.3	29912.4	30906.3	28123.4	28027.7	27696.4	28867.0	29301.4
55°	26128.3	26084.1	27453.5	29176.2	31863.4	33534.6	31863.4	31804.5	31083.0	32194.7	32960.4
57.5°	25959.0	26408.1	27490.3	29897.7	33623.0	36354.3	36199.7	35794.8	34786.2	35691.7	37061.1
60°	25384.7	25502.5	26820.3	29875.6	34646.3	39247.7	40882.1	40963.0	38901.6	39623.1	41257.5
62.5°	22130.6	22403.0	24074.3	27527.1	33917.5	41242.8	45454.0	45166.8	43517.7	42693.1	43186.4
65°	17602.9	17330.5	19068.0	22800.6	29382.4	39829.3	47456.5	48524.0	45932.5	44423.3	43164.3
67.5°	10792.9	10726.7	12397.9	15688.8	21983.4	33895.4	45858.9	46690.8	45262.5	44055.1	39645.2
70°	5558.4	5389.1	6434.5	8753.6	13818.8	24869.4	39910.3	40727.5	42089.5	39512.7	33269.6
72.5°	2591.5	2554.7	3114.2	4306.9	7038.2	14621.2	30906.3	31495.3	34366.5	33313.8	25377.4
75°	1524.0	1546.1	1862.6	2252.8	3430.8	6891.0	20511.0	21652.1	24766.3	24008.0	16159.9
77.5°	1141.1	1141.1	1325.2	1568.1	2002.5	2665.1	10123.0	11632.2	14481.4	13023.7	7774.4
80°	839.3	854.0	1016.0	1177.9	1391.4	1376.7	4019.7	4711.8	6640.7	5676.2	3070.0
82.5°	655.2	677.3	787.8	876.1	979.2	831.9	1649.1	1774.3	2731.4	2171.8	1214.8
85°	456.5	471.2	618.4	596.3	596.3	463.8	684.7	721.5	1082.2	1030.7	515.4
87.5°	110.4	125.2	301.8	331.3	250.3	139.9	213.5	243.0	390.2	449.1	220.9
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°	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4
2.5°	8481.2	8510.7	8635.8	8569.6	8606.4	8451.8	8576.9	8473.8	8562.2	8518.0	8437.0
5°	8716.8	8650.5	8724.2	8672.6	8672.6	8731.5	8819.9	8753.6	8886.1	8827.2	8746.2
7.5°	8812.5	8819.9	8864.0	8871.4	8834.6	9018.6	9026.0	9003.9	9129.1	9099.6	9055.5
10°	9048.1	9055.5	9136.4	9180.6	9143.8	9210.1	9136.4	9077.5	9070.2	9040.7	9040.7
12.5°	9423.6	9497.2	9482.5	9519.3	9526.6	9246.9	9077.5	8790.4	8753.6	8790.4	8805.1
15°	9769.6	9740.1	9754.9	9828.5	9519.3	9070.2	8768.3	8525.4	8540.1	8547.5	8650.5
17.5°	10181.9	10203.9	10226.0	9887.4	9320.5	8790.4	8525.4	8525.4	8451.8	8481.2	8488.6
20°	10653.0	10564.7	10373.3	9894.7	8974.5	8466.5	8385.5	8385.5	8297.2	8238.3	8149.9
22.5°	11021.1	10844.5	10557.3	9666.5	8665.3	8341.3	8142.5	8002.7	7899.6	7781.8	7715.5
25°	11256.7	11161.0	10601.5	9430.9	8437.0	8010.0	7715.5	7502.0	7369.5	7214.9	7244.4
27.5°	11617.5	11433.4	10726.7	9158.5	8186.7	7678.7	7222.3	6891.0	6640.7	6478.7	6552.3
30°	12103.4	11838.3	10638.3	8768.3	7803.9	7104.5	6567.0	6140.0	5852.9	5720.4	5794.0
32.5°	12500.9	12154.9	10564.7	8414.9	7376.9	6522.9	5808.7	5374.4	5212.4	5043.1	5035.7
35°	13259.2	12574.6	10513.2	8216.2	6994.0	5941.3	5190.3	4814.9	4608.7	4358.4	4336.3
37.5°	13840.9	13303.4	10388.0	7803.9	6500.8	5374.4	4719.1	4380.5	4071.3	3806.2	3813.6
40°	14753.8	14319.4	10395.4	7222.3	5919.2	4888.5	4351.0	3997.7	3607.5	3379.2	3401.3
42.5°	16469.1	15320.6	10439.5	6758.5	5263.9	4490.9	4019.7	3600.1	3209.9	3018.5	3033.2
45°	18574.7	16697.4	10167.1	6338.8	4594.0	4115.4	3622.2	3202.5	2952.2	2812.3	2841.8
47.5°	20996.9	18044.6	9799.0	5551.1	4034.5	3717.9	3254.1	3011.1	2827.1	2746.1	2731.4
50°	23706.1	19973.5	9696.0	4829.6	3600.1	3379.2	3077.4	2893.3	2768.2	2672.5	2687.2
52.5°	27195.8	22219.0	9489.8	4086.0	3224.6	3106.8	3011.1	2886.0	2775.5	2694.5	2687.2
55°	30530.9	24707.4	9269.0	3474.9	2959.6	2974.3	3025.8	2915.4	2819.7	2694.5	2687.2
57.5°	34285.6	27247.3	8451.8	3025.8	2760.8	2908.1	3011.1	2886.0	2790.3	2694.5	2687.2
60°	36604.6	28675.6	6854.2	2635.7	2584.1	2782.9	2922.8	2790.3	2687.2	2724.0	2694.5
62.5°	37547.0	27924.7	5168.2	2392.7	2459.0	2613.6	2782.9	2731.4	2657.7	2797.6	2760.8
65°	35942.1	26194.6	3695.8	2186.6	2289.6	2444.2	2657.7	2716.6	2738.7	3011.1	3011.1
67.5°	31981.2	22808.0	2716.6	2017.2	2112.9	2341.2	2746.1	2841.8	2827.1	3165.7	3187.8
70°	25590.9	17838.5	2120.3	1877.4	2046.7	2422.1	2871.2	2871.2	2768.2	3165.7	3099.5
72.5°	18618.9	12574.6	1825.8	1715.4	1877.4	2223.4	2856.5	2849.2	2716.6	2893.3	2790.3
75°	11271.5	7318.0	1612.3	1553.4	1612.3	1906.8	2731.4	2687.2	2503.1	2488.4	2459.0
77.5°	5617.3	3681.1	1317.8	1376.7	1406.2	1597.6	2400.1	2466.3	2216.0	2157.1	2120.3
80°	2370.6	1605.0	1097.0	1185.3	1185.3	1347.3	1995.1	2039.3	1840.5	1730.1	1693.3
82.5°	1082.2	920.3	935.0	1030.7	964.4	1045.4	1582.9	1634.4	1494.5	1310.5	1281.0
85°	456.5	522.7	714.1	809.8	714.1	677.3	1089.6	1148.5	971.8	809.8	817.2
87.5°	206.1	287.1	449.1	589.0	360.7	316.6	581.6	603.7	485.9	360.7	338.7
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)