

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: P977442

Luminaire Tested: **EPH-VN-08-E-730-U-T3**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977442
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-730-U-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62629.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

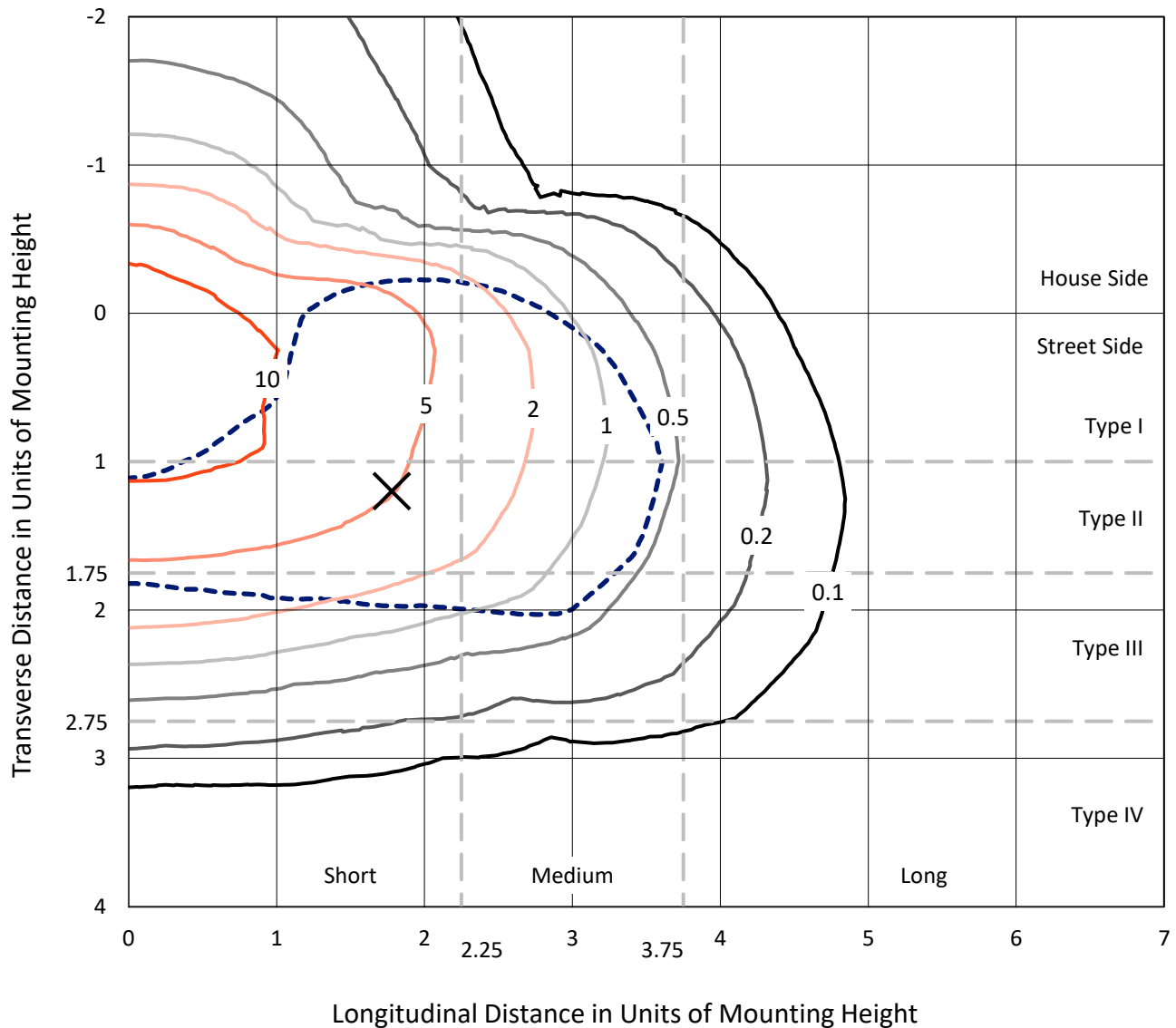
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

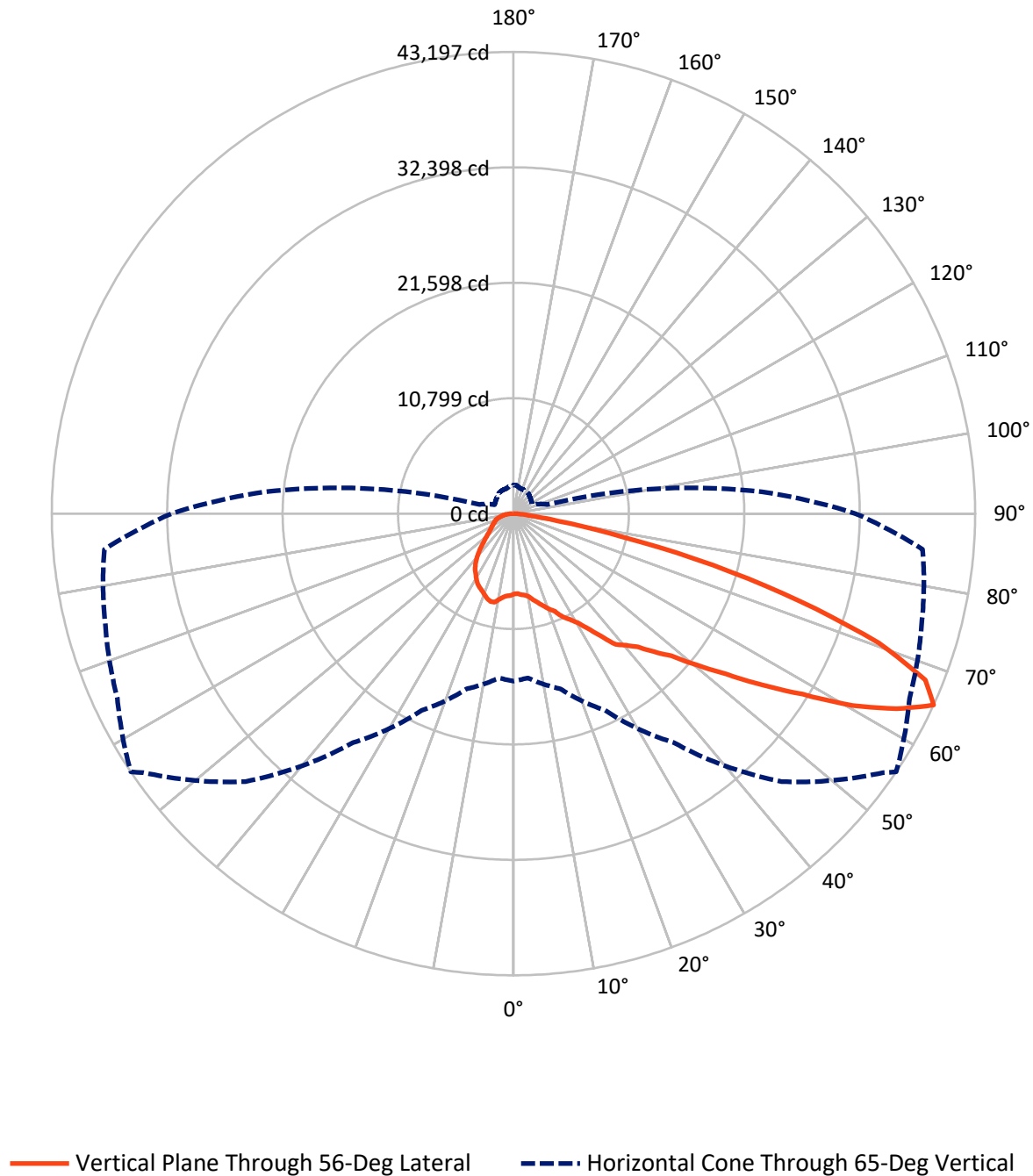


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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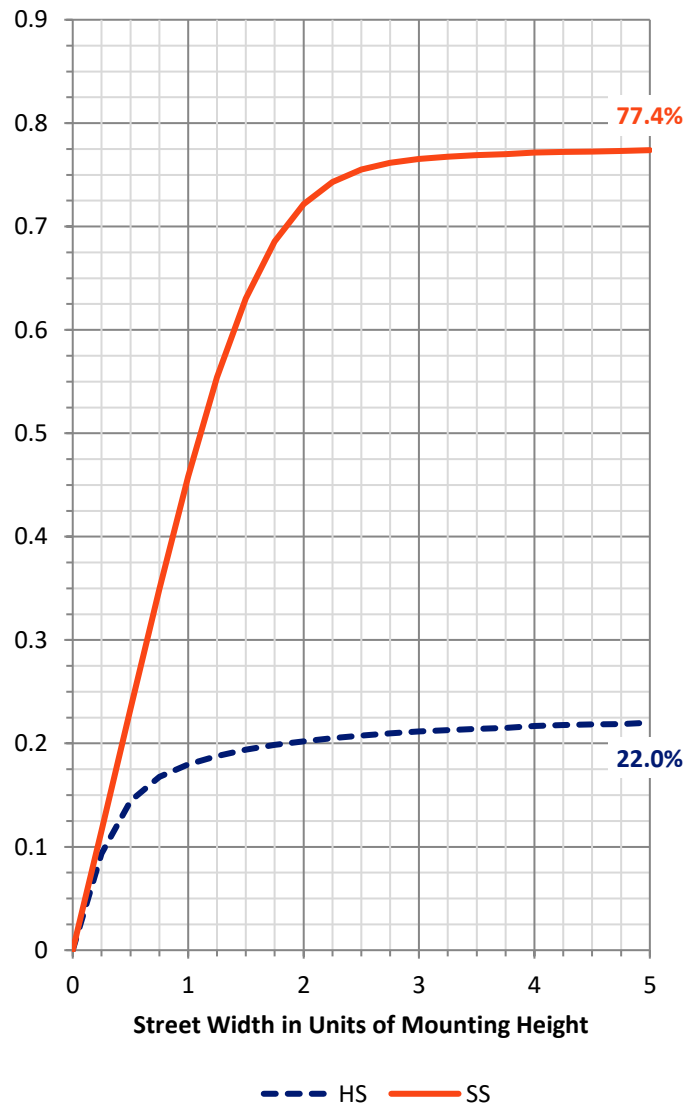
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14045.8	0.0	14045.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	48583.7	0.0	48583.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	62629.4	0.0	62629.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.9	1.2
10°-20°	2418.9	3.9
20°-30°	4307.0	6.9
30°-40°	6449.7	10.3
40°-50°	9556.0	15.3
50°-60°	14724.4	23.5
60°-70°	16669.9	26.6
70°-80°	6918.2	11.0
80°-90°	840.5	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°	62629.4	100.0
0°-180°	62629.4	100.0

Coefficient of Utilization



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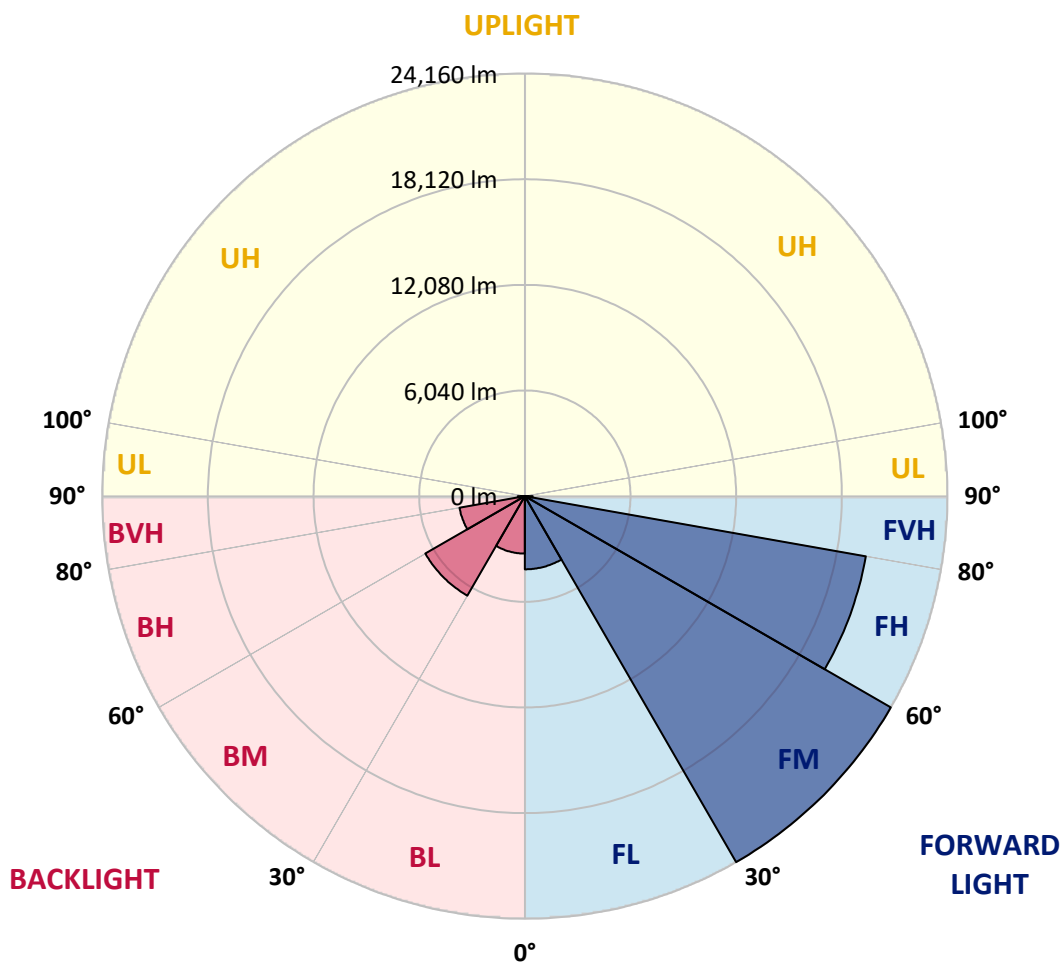
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4185.5	6.7			
FM	(30°-60°)	24159.7	38.6			
FH	(60°-80°)	19795.2	31.6			G5
FVH	(80°-90°)	443.3	0.7			G3/500
BL	(0°-30°)	3285.4	5.2	B4/5000		
BM	(30°-60°)	6570.3	10.5	B4/8500		
BH	(60°-80°)	3792.8	6.1	B4/5000		G4/5000
BVH	(80°-90°)	397.1	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°	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3
2.5°	7320.7	7360.0	7333.8	7412.5	7478.0	7478.0	7530.4	7491.1	7543.5	7615.6	7648.4
5°	7563.2	7405.9	7491.1	7530.4	7510.8	7543.5	7491.1	7622.2	7537.0	7674.6	7707.4
7.5°	7622.2	7681.2	7753.3	7687.7	7746.7	7713.9	7720.5	7700.8	7655.0	7766.4	7753.3
10°	8054.7	7969.5	8133.4	8035.1	8022.0	8008.9	7982.6	7884.3	7995.8	8002.3	8067.8
12.5°	8552.8	8474.2	8467.6	8389.0	8493.8	8303.8	8343.1	8290.7	8310.3	8336.6	8316.9
15°	8913.3	8880.5	9031.3	8939.5	8801.9	8716.7	8808.4	8664.3	8736.3	8723.2	8683.9
17.5°	9627.7	9621.1	9509.7	9359.0	9280.3	9155.8	9136.1	9077.1	9129.6	9103.4	9162.3
20°	10125.8	10197.9	10217.5	10040.6	9739.1	9601.5	9568.7	9522.8	9581.8	9562.1	9496.6
22.5°	10886.0	10774.6	10859.8	10551.8	10440.4	10112.7	9994.7	9929.2	10211.0	10138.9	9857.1
25°	11371.0	11489.0	11403.8	11298.9	11049.9	10643.5	10558.3	10702.5	10813.9	10735.3	10256.8
27.5°	12465.5	12347.5	12268.9	11954.3	11790.5	11364.5	11266.1	11213.7	11239.9	11285.8	10571.4
30°	13297.9	13363.4	13186.4	12963.6	12550.7	12118.2	11888.8	11842.9	11751.1	11672.5	11049.9
32.5°	14484.1	14385.8	14280.9	14136.8	13782.8	13212.7	12989.8	12819.4	12544.2	12177.1	11502.1
35°	15054.3	15336.1	15257.5	14870.8	14602.1	14385.8	14320.3	14058.1	13828.7	13252.0	12262.3
37.5°	16004.6	16122.6	16011.2	15886.6	15762.1	15532.7	15454.1	15526.2	15074.0	14123.6	12714.6
40°	16620.7	16869.7	17099.1	16751.8	16725.5	16771.4	16286.4	16201.2	15270.6	14772.5	13763.2
42.5°	17879.0	17983.9	18029.8	18016.7	18167.4	18167.4	17243.3	17059.8	16397.8	15991.5	15316.5
45°	19543.7	19628.9	19792.8	19910.7	19740.3	19825.5	18508.2	18436.1	17846.3	17767.6	17086.0
47.5°	20985.6	21188.7	21555.8	21903.1	22126.0	21837.6	20395.7	19884.5	19733.8	20205.7	19491.3
50°	22243.9	22001.4	22860.0	23213.9	24190.4	24668.9	22479.9	22276.7	22034.2	22938.6	22591.3
52.5°	22368.4	22696.1	23908.6	24616.4	26628.5	27513.3	25035.9	24950.7	24655.8	25697.8	26084.5
55°	23259.8	23220.5	24439.5	25973.1	28365.3	29853.0	28365.3	28312.8	27670.5	28660.2	29341.8
57.5°	23109.0	23508.8	24472.2	26615.4	29931.6	32363.1	32225.5	31865.0	30967.2	31773.3	32992.3
60°	22597.8	22702.7	23875.8	26595.7	30842.6	34938.8	36393.8	36465.9	34630.8	35273.1	36728.0
62.5°	19701.0	19943.5	21431.2	24505.0	30193.8	36714.9	40463.8	40208.2	38740.1	38006.0	38445.2
65°	15670.4	15427.9	16974.6	20297.4	26156.6	35456.6	42246.4	43196.7	40889.8	39546.2	38425.5
67.5°	9608.0	9549.0	11036.8	13966.4	19569.9	30174.1	40824.2	41564.8	40293.4	39218.5	35292.7
70°	4948.2	4797.5	5728.1	7792.6	12301.7	22139.1	35528.7	36256.2	37468.6	35174.8	29617.1
72.5°	2307.0	2274.2	2772.3	3834.0	6265.5	13016.0	27513.3	28037.6	30593.6	29656.4	22591.3
75°	1356.7	1376.3	1658.1	2005.5	3054.1	6134.4	18259.2	19275.0	22047.3	21372.3	14385.8
77.5°	1015.9	1015.9	1179.7	1396.0	1782.7	2372.5	9011.6	10355.2	12891.5	11593.8	6920.9
80°	747.1	760.3	904.4	1048.6	1238.7	1225.6	3578.4	4194.5	5911.6	5053.1	2733.0
82.5°	583.3	603.0	701.3	779.9	871.7	740.6	1468.1	1579.5	2431.5	1933.4	1081.4
85°	406.3	419.4	550.5	530.9	530.9	412.9	609.5	642.3	963.4	917.5	458.8
87.5°	98.3	111.4	268.7	294.9	222.8	124.5	190.1	216.3	347.4	399.8	196.6
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°	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3	7517.3
2.5°	7550.1	7576.3	7687.7	7628.7	7661.5	7523.9	7635.3	7543.5	7622.2	7582.9	7510.8
5°	7759.8	7700.8	7766.4	7720.5	7720.5	7772.9	7851.6	7792.6	7910.6	7858.1	7786.0
7.5°	7845.0	7851.6	7890.9	7897.4	7864.7	8028.5	8035.1	8015.4	8126.8	8100.6	8061.3
10°	8054.7	8061.3	8133.4	8172.7	8139.9	8198.9	8133.4	8081.0	8074.4	8048.2	8048.2
12.5°	8389.0	8454.5	8441.4	8474.2	8480.7	8231.7	8081.0	7825.4	7792.6	7825.4	7838.5
15°	8697.0	8670.8	8683.9	8749.5	8474.2	8074.4	7805.7	7589.4	7602.5	7609.1	7700.8
17.5°	9064.0	9083.7	9103.4	8801.9	8297.2	7825.4	7589.4	7589.4	7523.9	7550.1	7556.6
20°	9483.5	9404.8	9234.4	8808.4	7989.2	7537.0	7464.9	7464.9	7386.2	7333.8	7255.2
22.5°	9811.2	9653.9	9398.3	8605.3	7713.9	7425.6	7248.6	7124.1	7032.3	6927.5	6868.5
25°	10020.9	9935.7	9437.6	8395.5	7510.8	7130.6	6868.5	6678.4	6560.4	6422.8	6449.0
27.5°	10342.0	10178.2	9549.0	8153.0	7287.9	6835.7	6429.4	6134.4	5911.6	5767.4	5833.0
30°	10774.6	10538.7	9470.4	7805.7	6947.1	6324.5	5846.1	5465.9	5210.3	5092.4	5157.9
32.5°	11128.5	10820.5	9404.8	7491.1	6567.0	5806.8	5171.0	4784.3	4640.2	4489.4	4482.9
35°	11803.6	11194.1	9359.0	7314.1	6226.2	5289.0	4620.5	4286.2	4102.7	3879.9	3860.2
37.5°	12321.3	11842.9	9247.5	6947.1	5787.1	4784.3	4201.0	3899.6	3624.3	3388.4	3394.9
40°	13134.0	12747.3	9254.1	6429.4	5269.3	4351.8	3873.4	3558.8	3211.4	3008.2	3027.9
42.5°	14661.1	13638.7	9293.4	6016.5	4686.0	3997.9	3578.4	3204.9	2857.5	2687.1	2700.2
45°	16535.5	14864.2	9050.9	5642.9	4089.6	3663.6	3224.5	2850.9	2628.1	2503.6	2529.8
47.5°	18691.7	16063.6	8723.2	4941.6	3591.5	3309.7	2896.8	2680.5	2516.7	2444.6	2431.5
50°	21103.5	17780.7	8631.5	4299.4	3204.9	3008.2	2739.5	2575.7	2464.3	2379.1	2392.2
52.5°	24210.1	19779.7	8448.0	3637.4	2870.6	2765.7	2680.5	2569.1	2470.8	2398.7	2392.2
55°	27179.0	21994.9	8251.4	3093.4	2634.7	2647.8	2693.7	2595.3	2510.1	2398.7	2392.2
57.5°	30521.5	24256.0	7523.9	2693.7	2457.7	2588.8	2680.5	2569.1	2483.9	2398.7	2392.2
60°	32586.0	25527.4	6101.7	2346.3	2300.4	2477.4	2601.9	2483.9	2392.2	2424.9	2398.7
62.5°	33424.9	24858.9	4600.8	2130.0	2189.0	2326.6	2477.4	2431.5	2366.0	2490.5	2457.7
65°	31996.1	23318.8	3290.1	1946.5	2038.3	2175.9	2366.0	2418.4	2438.0	2680.5	2680.5
67.5°	28470.1	20304.0	2418.4	1795.8	1881.0	2084.1	2444.6	2529.8	2516.7	2818.2	2837.8
70°	22781.3	15880.1	1887.5	1671.2	1822.0	2156.2	2556.0	2556.0	2464.3	2818.2	2759.2
72.5°	16574.8	11194.1	1625.4	1527.1	1671.2	1979.3	2542.9	2536.4	2418.4	2575.7	2483.9
75°	10034.0	6514.6	1435.3	1382.9	1435.3	1697.5	2431.5	2392.2	2228.3	2215.2	2189.0
77.5°	5000.6	3276.9	1173.1	1225.6	1251.8	1422.2	2136.6	2195.6	1972.7	1920.3	1887.5
80°	2110.4	1428.7	976.5	1055.2	1055.2	1199.4	1776.1	1815.4	1638.5	1540.2	1507.4
82.5°	963.4	819.2	832.3	917.5	858.6	930.7	1409.1	1455.0	1330.4	1166.6	1140.4
85°	406.3	465.3	635.7	720.9	635.7	603.0	970.0	1022.4	865.1	720.9	727.5
87.5°	183.5	255.6	399.8	524.3	321.1	281.8	517.8	537.4	432.6	321.1	301.5
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)