

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: P977455

Luminaire Tested: **EPH-VN-08-E-750-U-T4FT**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977455
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-T4FT
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70765.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

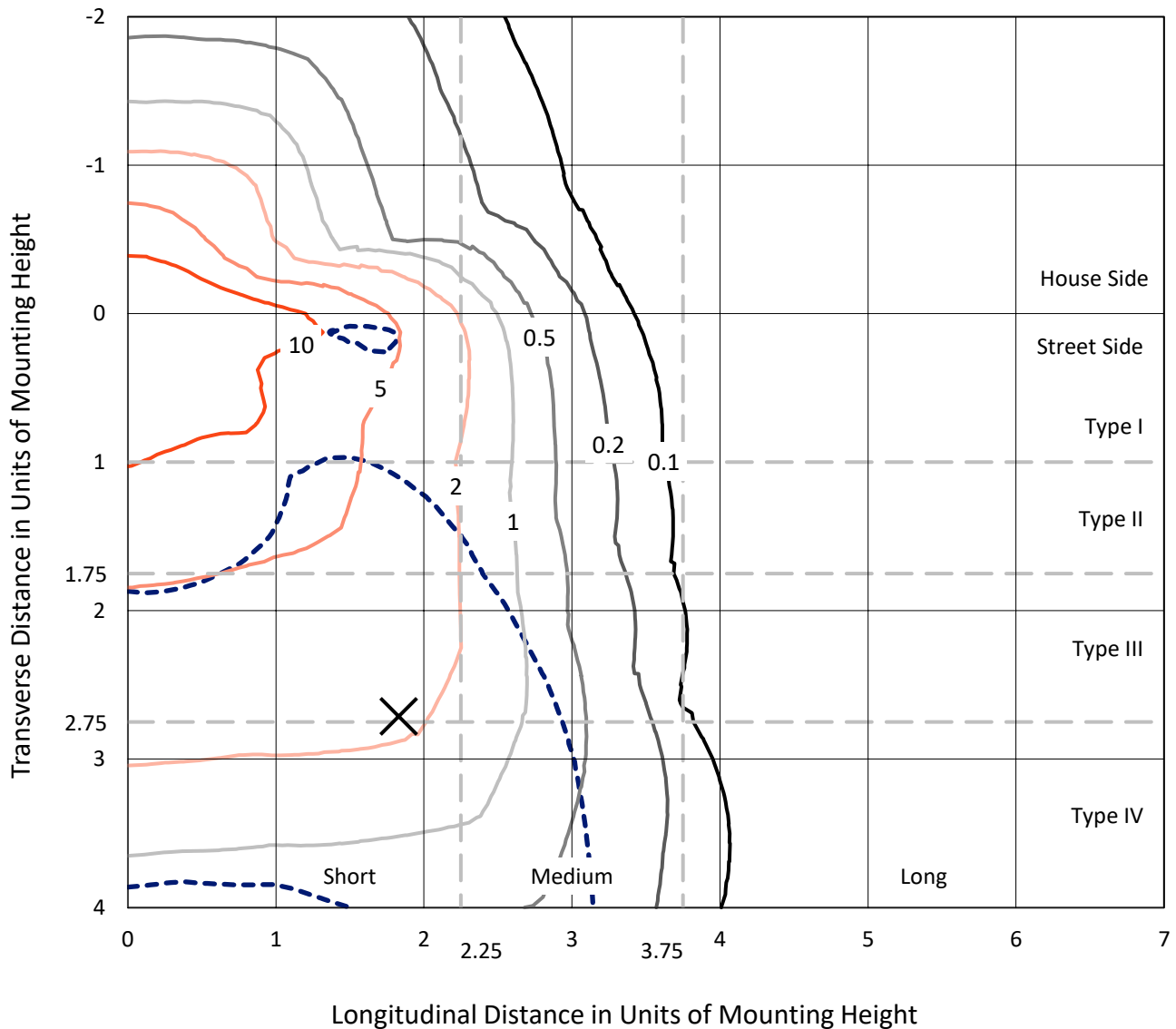
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

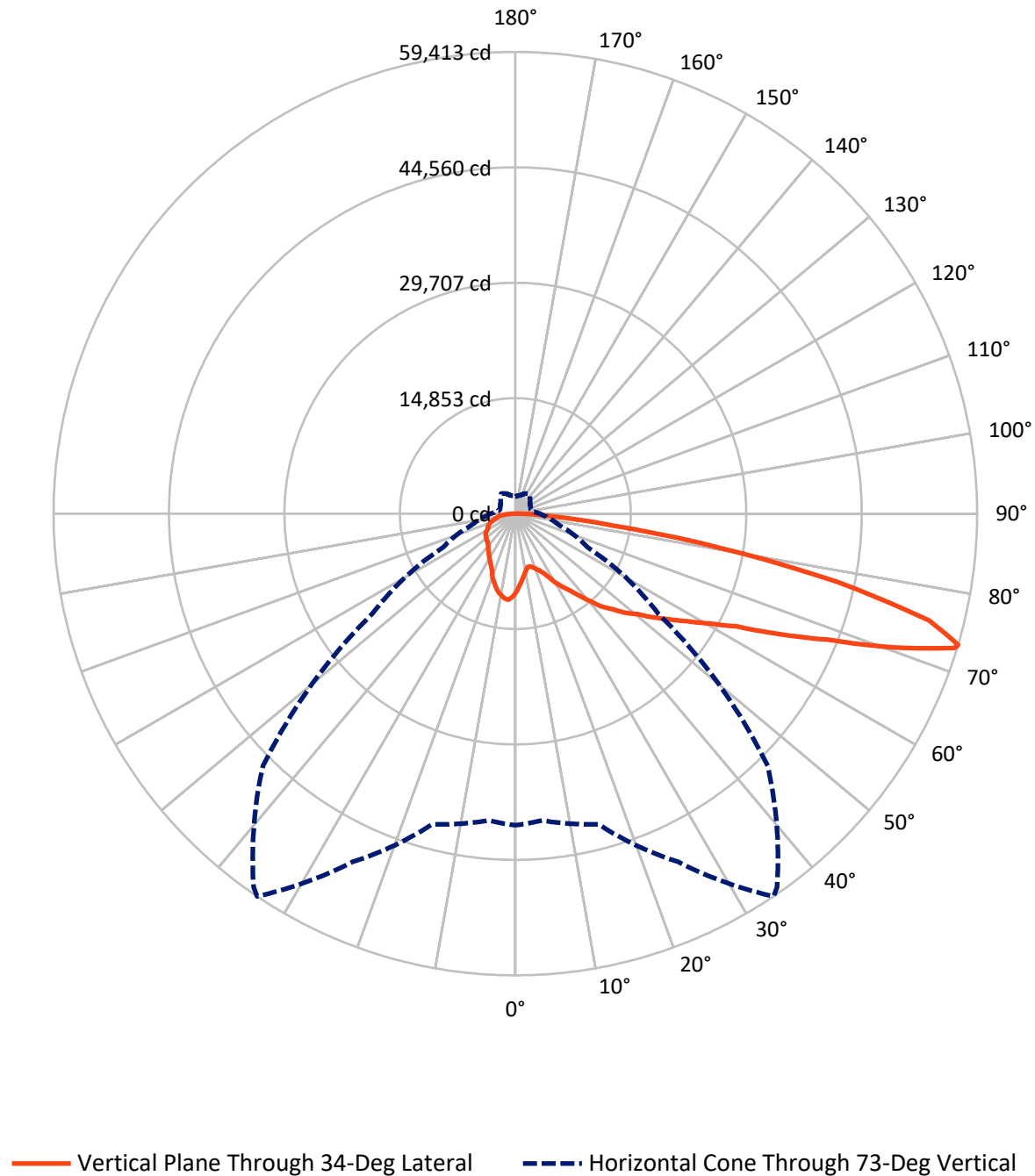
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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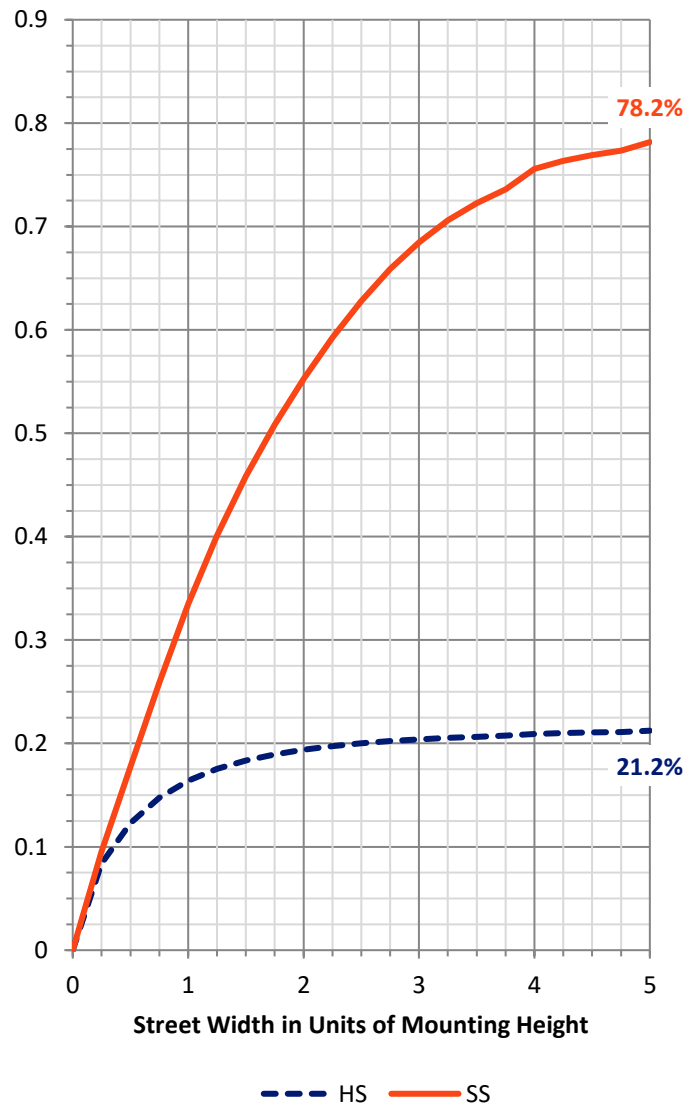
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15286.3	0.0	15286.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	55479.4	0.0	55479.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	70765.7	0.0	70765.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.4	1.3
10°-20°	2620.5	3.7
20°-30°	4313.0	6.1
30°-40°	6450.0	9.1
40°-50°	9561.9	13.5
50°-60°	13779.7	19.5
60°-70°	17584.7	24.8
70°-80°	13683.8	19.3
80°-90°	1835.8	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°	70765.7	100.0
0°-180°	70765.7	100.0

Coefficient of Utilization



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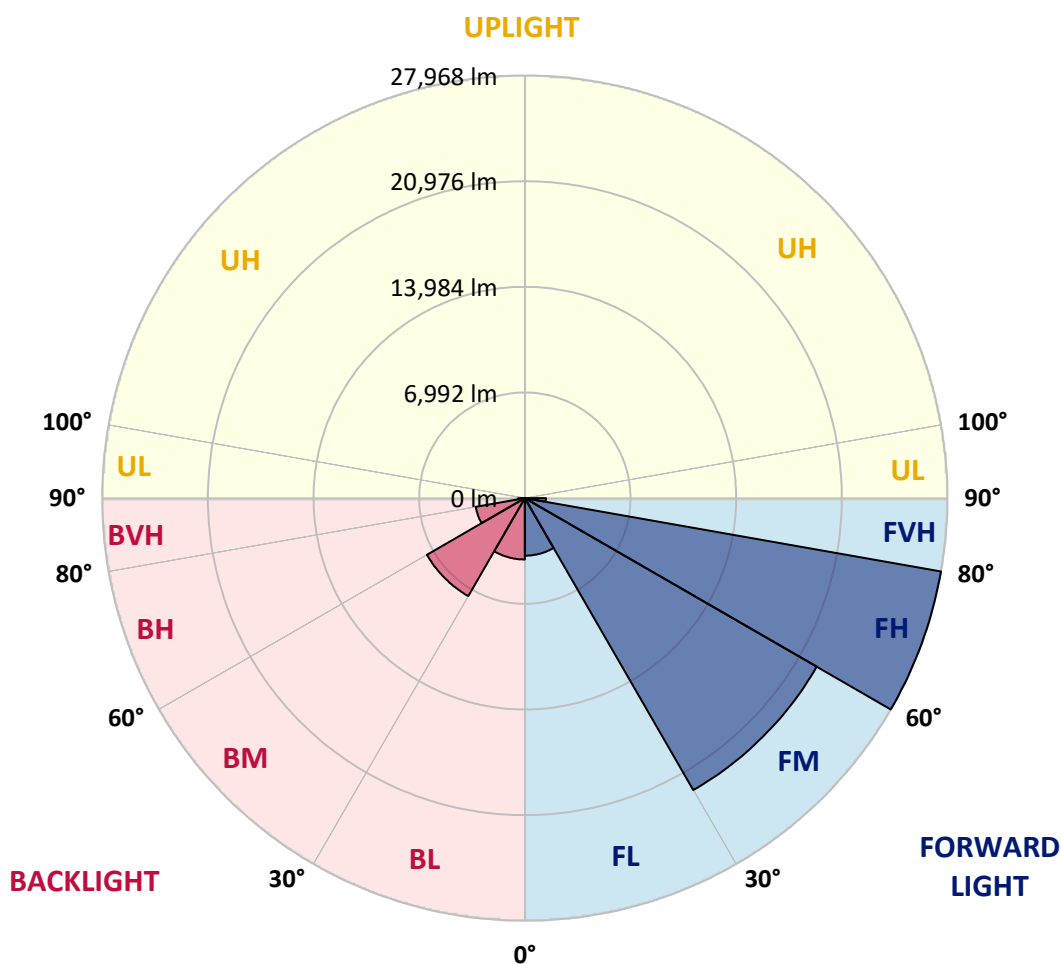
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3808.4	5.4			
FM	(30°-60°)	22305.8	31.5			
FH	(60°-80°)	27967.9	39.5			G5
FVH	(80°-90°)	1397.3	2.0			G5
BL	(0°-30°)	4061.5	5.7	B4/5000		
BM	(30°-60°)	7485.7	10.6	B4/8500		
BH	(60°-80°)	3300.6	4.7	B4/5000		G4/5000
BVH	(80°-90°)	438.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4
2.5°	9090.4	9120.4	9217.6	9240.1	9344.8	9285.0	9412.1	9636.6	9763.8	9950.8	10175.3
5°	8372.2	8245.0	8304.8	8536.8	8656.5	8686.4	8821.1	9202.7	9442.1	9718.9	10137.9
7.5°	7526.7	7504.3	7624.0	7773.6	8013.0	8035.5	8334.8	8671.4	9165.2	9778.8	10272.6
10°	6950.6	7047.9	7115.2	7272.3	7436.9	7436.9	7818.5	8402.1	8963.2	9554.3	10302.5
12.5°	6920.7	6860.8	6875.8	6958.1	7077.8	7227.5	7586.6	8110.3	8821.1	9509.4	10429.7
15°	7018.0	7040.4	6905.7	7010.5	7055.4	7107.7	7504.3	8095.3	8731.3	9666.5	10646.7
17.5°	7534.2	7407.0	7197.5	7100.3	7257.4	7257.4	7526.7	7990.6	8746.3	9748.8	10960.9
20°	7938.2	7938.2	7594.1	7489.3	7601.5	7579.1	7766.1	8110.3	8821.1	9913.4	11312.5
22.5°	8619.1	8716.3	8147.7	7930.7	7923.3	7983.1	8147.7	8439.5	9030.6	10145.4	11649.2
25°	9599.2	9621.6	8963.2	8738.8	8499.4	8596.6	8626.6	8918.3	9217.6	10414.7	12030.8
27.5°	10691.5	10676.6	10070.6	9509.4	9352.3	9374.7	9210.1	9404.7	9494.4	10497.0	12577.0
30°	11903.6	11768.9	11312.5	10519.5	10392.3	10250.1	9891.0	9883.5	10070.6	10960.9	13332.6
32.5°	12696.7	12524.6	12210.4	11641.7	11290.1	11305.1	10736.4	10729.0	10564.4	11469.7	13991.0
35°	13474.8	13212.9	13130.6	12547.0	12195.4	12232.8	11776.4	11716.6	11417.3	12240.3	15075.9
37.5°	14410.0	14178.1	14305.3	13863.8	13429.9	13250.3	13040.8	12966.0	12577.0	13325.1	16557.3
40°	15442.5	15367.7	15285.4	15068.4	14806.6	14821.5	14597.1	14522.2	13946.1	14634.5	17978.9
42.5°	16834.1	16549.8	16123.4	16265.5	16400.2	16542.3	16467.5	16273.0	15674.4	15966.2	19565.0
45°	18128.5	17754.4	16968.8	17013.7	17567.3	17679.6	18584.9	18562.4	17357.9	17657.1	21368.1
47.5°	19003.9	18831.8	18360.4	18308.1	19101.1	19093.6	20724.7	20724.7	19131.1	19340.5	23305.9
50°	20305.7	19856.8	19654.8	19916.6	20320.7	20597.5	22909.4	23051.5	20874.3	21098.8	25842.3
52.5°	21832.0	21270.9	20762.1	21435.5	22153.7	22333.3	25071.6	25011.8	22213.6	23141.3	28812.5
55°	23096.4	22812.1	22460.5	22849.5	24024.2	24248.6	27241.4	26687.7	23552.8	24832.2	30241.6
57.5°	24570.3	24742.4	24817.2	24720.0	26119.1	26470.7	29717.9	28131.7	24705.0	25969.5	31079.5
60°	26792.5	26897.2	26994.5	27226.4	28707.8	29201.6	31678.1	29942.3	25430.8	26627.9	31146.9
62.5°	30174.2	29770.2	29987.2	30787.8	31977.4	32538.5	34566.1	31214.2	25984.4	27024.4	28947.2
65°	34042.4	33496.2	33271.7	34304.2	37386.7	36937.8	38172.3	32164.4	25183.9	25543.0	24547.9
67.5°	37962.8	38022.7	37446.6	39519.1	43297.4	43297.4	41524.2	32620.8	23014.1	20702.2	17215.7
70°	41075.3	41262.3	41576.6	45594.3	51579.8	52485.1	45676.6	30750.3	18592.4	13781.5	9412.1
72.5°	41030.4	40469.2	42077.8	49477.4	59106.5	58350.8	46544.5	24316.0	11604.3	6748.6	4317.0
73°	40110.1	39638.8	41397.0	49440.0	59413.3	58702.5	45908.5	22415.6	10235.2	5850.8	3838.2
75°	32755.5	31902.5	34895.3	44778.8	54969.0	55515.2	39002.8	14619.5	5611.4	3606.2	2700.9
77.5°	14933.7	15307.8	19205.9	30039.6	42362.2	43005.6	25640.2	6322.2	3075.0	2528.9	1990.2
80°	4795.9	5035.3	7474.4	14933.7	26553.0	27712.7	11851.2	2873.0	2192.2	1937.8	1488.9
82.5°	1833.0	1825.6	3134.9	6209.9	12584.4	13325.1	4332.0	1750.7	1631.0	1429.0	1054.9
85°	643.4	673.4	1182.1	2454.0	4953.0	5184.9	1503.8	972.6	1129.8	957.7	606.0
87.5°	224.5	231.9	419.0	890.3	1705.9	1803.1	419.0	389.1	561.1	553.7	306.8
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°	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4	10145.4
2.5°	10250.1	10317.5	10339.9	10609.2	10609.2	10609.2	10714.0	10714.0	10684.1	10609.2	10788.8
5°	10295.0	10414.7	10646.7	10878.6	10938.4	10990.8	11133.0	11013.3	11058.2	10983.3	11050.7
7.5°	10422.2	10586.8	11020.7	11162.9	11065.6	11177.9	11028.2	10945.9	10863.6	10893.6	10788.8
10°	10639.2	10848.7	11050.7	11312.5	11125.5	11013.3	10706.5	10631.7	10369.8	10280.0	10362.3
12.5°	10908.5	11162.9	11507.1	11409.8	11050.7	10729.0	10399.8	10085.5	9928.4	9703.9	9763.8
15°	11177.9	11469.7	11522.0	11357.4	10908.5	10504.5	9906.0	9464.5	9307.4	9105.4	9210.1
17.5°	11469.7	11746.5	11656.7	11230.2	10624.2	10010.7	9329.8	8895.9	8566.7	8439.5	8439.5
20°	11903.6	12038.3	11896.1	11020.7	10280.0	9472.0	8813.6	8319.8	7990.6	7938.2	7855.9
22.5°	12240.3	12457.3	11821.3	10714.0	9778.8	8768.7	8013.0	7826.0	7728.7	7646.4	7541.7
25°	12674.2	12666.7	11686.6	10429.7	8918.3	7930.7	7474.4	7459.4	7414.5	7384.6	7526.7
27.5°	13085.7	12913.6	11529.5	9726.4	8028.0	7294.8	7047.9	7212.5	7279.8	7234.9	7294.8
30°	13736.6	13452.3	11305.1	8978.2	7242.4	6651.4	6696.2	6920.7	7032.9	7100.3	7010.5
32.5°	14425.0	13991.0	10841.2	8200.1	6546.6	6247.3	6352.1	6584.0	6718.7	6793.5	6875.8
35°	15420.1	14410.0	10369.8	7182.6	6045.3	6000.4	6060.3	6187.5	6382.0	6434.4	6456.8
37.5°	16647.1	15046.0	9733.9	6367.0	5656.3	5708.6	5768.5	5813.4	5820.9	5918.1	5880.7
40°	17874.1	15584.7	8806.1	5588.9	5252.2	5536.6	5506.6	5424.3	5357.0	5267.2	5244.8
42.5°	18951.5	16056.0	7773.6	4930.5	4893.1	5357.0	5259.7	5050.2	4893.1	4825.8	4713.6
45°	20163.5	16721.9	6733.7	4519.0	4616.3	5140.0	5110.1	4788.4	4586.4	4346.9	4317.0
47.5°	21734.7	17417.7	5738.6	4092.6	4354.4	5057.7	5072.7	4661.2	4369.4	4047.7	4002.8
50°	23747.3	18420.3	4982.9	3913.0	4197.3	4938.0	4960.5	4489.1	4107.5	3778.3	3748.4
52.5°	25677.7	19445.3	4354.4	3636.2	4092.6	4795.9	4848.2	4332.0	3890.6	3479.1	3501.5
55°	26650.3	19071.2	3815.7	3434.2	3853.1	4563.9	4758.4	4219.8	3561.4	3277.0	3269.6
57.5°	26867.3	18150.9	3389.3	3224.7	3651.1	4317.0	4608.8	3883.1	3411.7	3172.3	3142.4
60°	26156.5	16542.3	3052.6	3000.2	3396.8	4062.6	4264.6	3703.5	3262.1	3067.6	3022.7
62.5°	24405.7	14873.9	2820.7	2895.5	3179.8	3785.8	4047.7	3576.3	3119.9	2985.3	2888.0
65°	20013.9	12232.8	2633.6	2693.5	2955.3	3516.5	3913.0	3434.2	2992.7	2865.5	2858.1
67.5°	13863.8	8432.0	2484.0	2596.2	2775.8	3321.9	3778.3	3277.0	2828.1	2783.2	2723.4
70°	7100.3	4496.6	2289.4	2379.2	2581.2	3075.0	3538.9	3112.4	2656.1	2648.6	2573.8
72.5°	3598.8	2633.6	2065.0	2199.7	2341.8	2753.3	3239.6	2895.5	2439.1	2356.8	2237.1
73°	3112.4	2439.1	2027.6	2147.3	2282.0	2663.5	3149.9	2843.1	2409.2	2289.4	2177.2
75°	2267.0	1922.8	1818.1	1937.8	2042.5	2401.7	2850.6	2603.7	2214.6	2087.4	1982.7
77.5°	1698.4	1481.4	1511.3	1646.0	1735.8	2072.5	2536.3	2356.8	2005.1	1833.0	1788.2
80°	1249.5	1129.8	1249.5	1376.7	1444.0	1825.6	2311.9	2042.5	1690.9	1496.4	1459.0
82.5°	890.3	823.0	965.2	1047.5	1077.4	1511.3	2080.0	1631.0	1279.4	1025.0	942.7
85°	508.8	501.3	650.9	643.4	665.9	882.9	1369.2	1084.9	823.0	628.5	613.5
87.5°	224.5	246.9	329.2	261.9	276.8	419.0	583.6	404.0	336.7	187.0	142.2
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)