

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: P977450

Luminaire Tested: **EPH-VN-08-E-750-U-T3R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977450
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-T3R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67851.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (A_{in}): 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

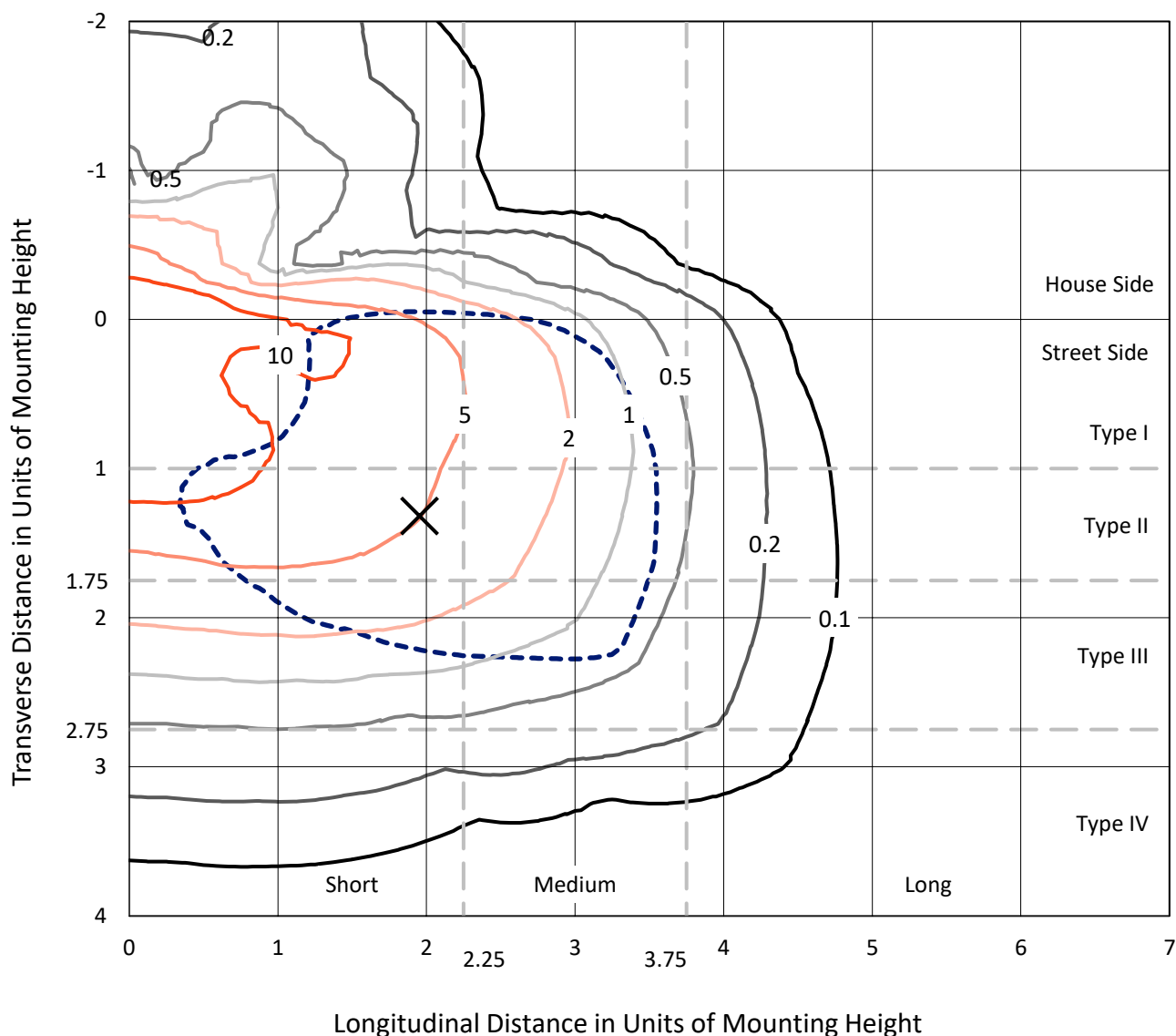
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

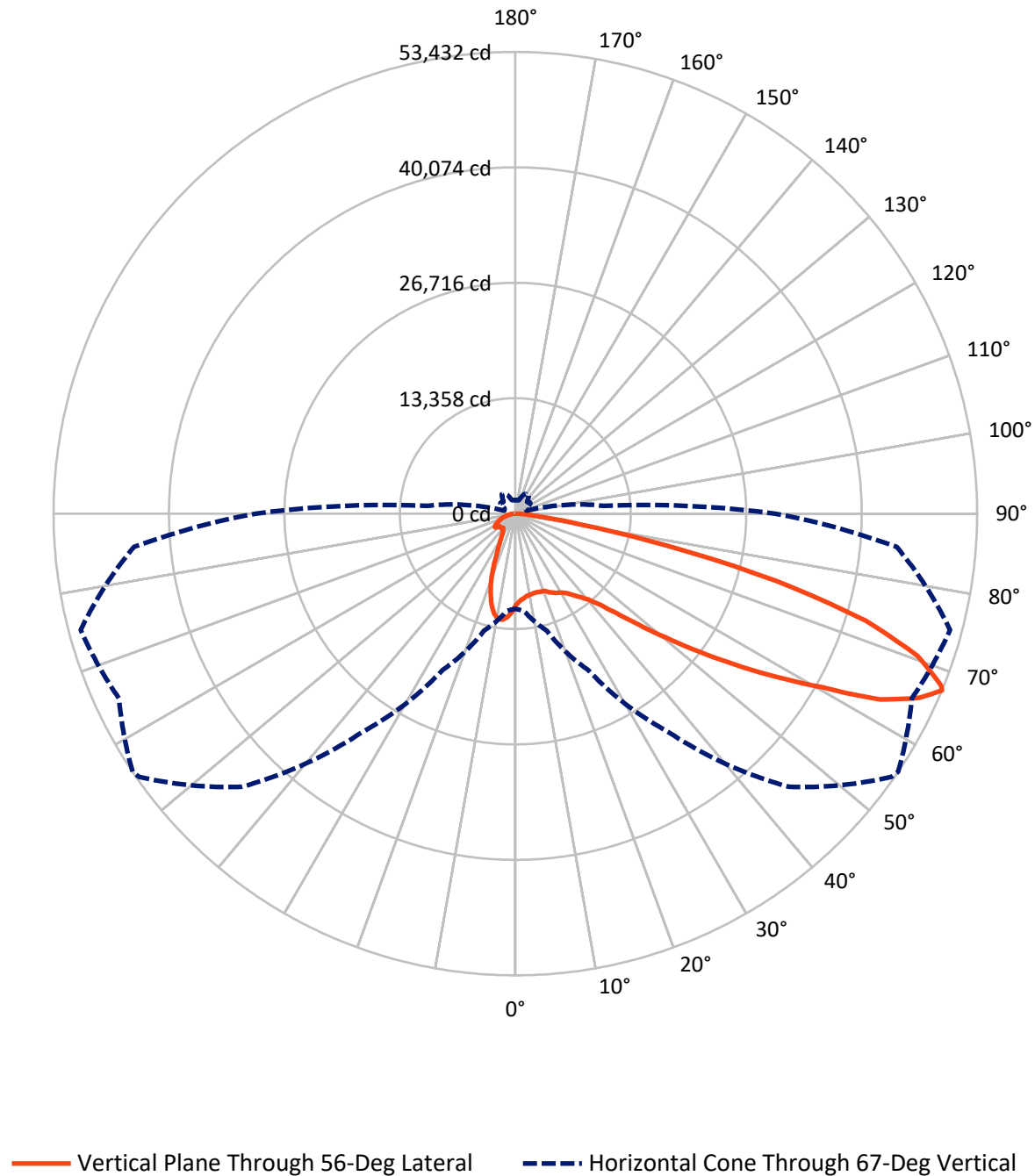


Based on 25 foot mounting height. Maximum calculated value = 18.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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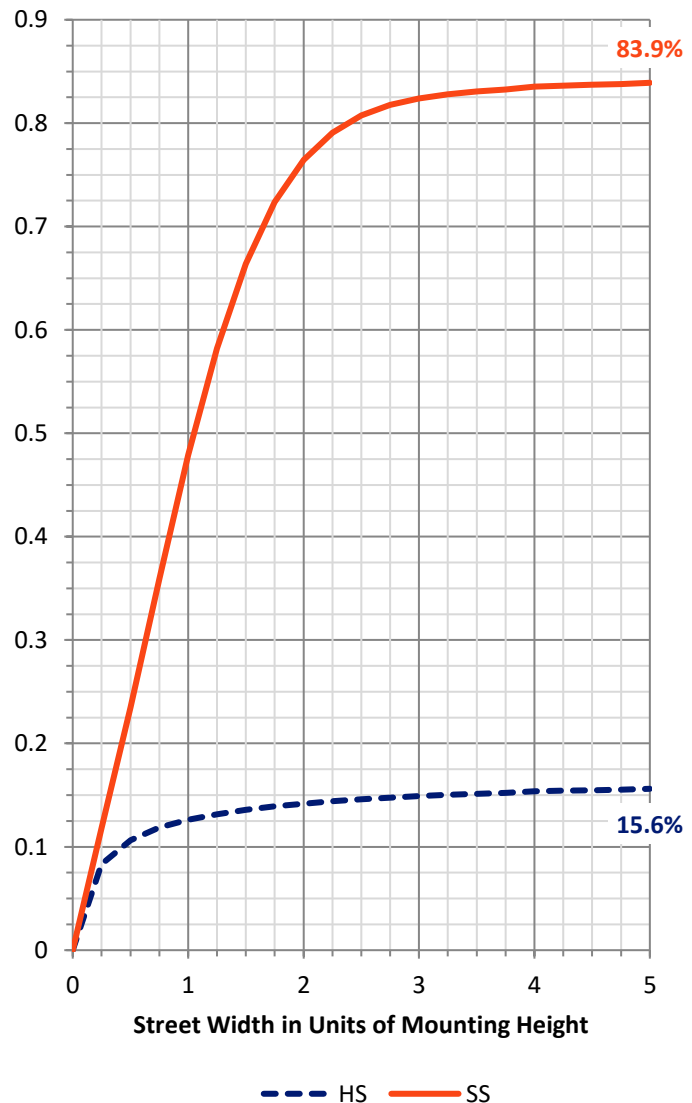
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10741.5	0.0	10741.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	57109.6	0.0	57109.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	67851.1	0.0	67851.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.1	1.5
10°-20°	2774.7	4.1
20°-30°	4351.6	6.4
30°-40°	6211.9	9.2
40°-50°	9375.6	13.8
50°-60°	14924.3	22.0
60°-70°	19079.6	28.1
70°-80°	9302.6	13.7
80°-90°	813.8	1.2
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°	67851.1	100.0
0°-180°	67851.1	100.0

Coefficient of Utilization



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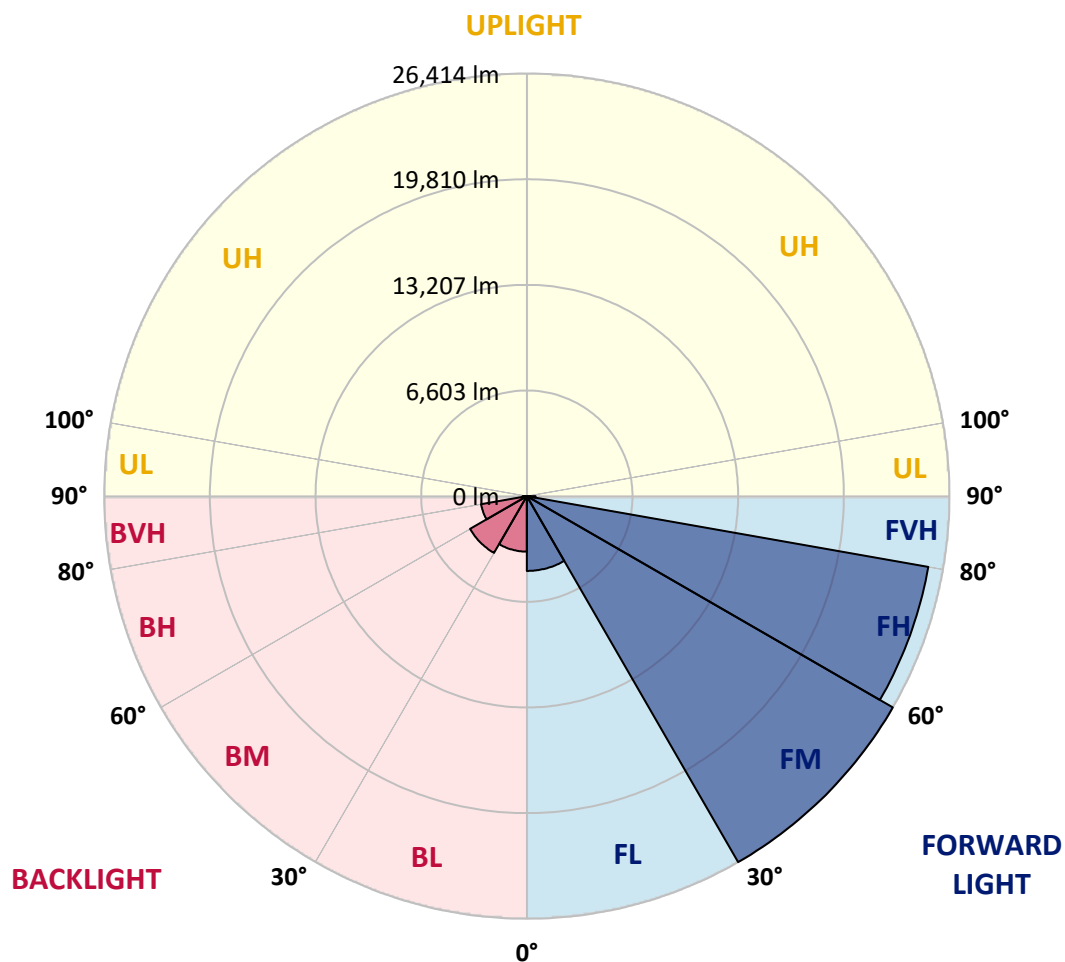
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4675.7	6.9			
FM	(30°-60°)	26413.8	38.9			
FH	(60°-80°)	25479.6	37.6			G5
FVH	(80°-90°)	540.5	0.8			G4/750
BL	(0°-30°)	3467.7	5.1	B4/5000		
BM	(30°-60°)	4098.0	6.0	B3/5000		
BH	(60°-80°)	2902.6	4.3	B4/5000		G4/5000
BVH	(80°-90°)	273.3	0.4			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°	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5
2.5°	9698.2	9658.4	9706.2	9658.4	9873.2	10000.5	10040.3	10096.0	10294.9	10485.9	10652.9
5°	9292.5	9117.4	9308.4	9372.0	9387.9	9602.7	9825.5	9865.3	9968.7	10279.0	10788.2
7.5°	8616.2	8815.1	8743.5	8934.5	9133.4	9348.2	9714.1	9610.7	9992.6	10287.0	11034.8
10°	8473.0	8488.9	8568.5	8640.1	8815.1	9093.6	9602.7	9539.1	9928.9	10557.5	11241.7
12.5°	8616.2	8616.2	8592.4	8536.7	8735.6	9006.1	9411.8	9443.6	10056.2	10637.0	11559.9
15°	9117.4	9212.9	8958.3	8998.1	8918.5	9006.1	9364.1	9435.7	10104.0	10700.7	11750.8
17.5°	10342.6	10310.8	10008.5	9586.8	9236.8	9181.1	9427.7	9507.3	10056.2	10883.6	11989.5
20°	11536.0	11472.4	10947.3	10509.7	9817.6	9491.4	9531.1	9539.1	10135.8	11003.0	12371.4
22.5°	12864.7	13031.7	12458.9	11567.9	10708.6	9897.1	9738.0	9865.3	10318.8	11066.6	12411.2
25°	14949.1	14591.1	14097.8	12928.3	11544.0	10525.6	10080.1	10143.7	10493.8	11225.7	12506.6
27.5°	16452.8	16309.6	15537.8	14591.1	12713.5	11018.9	10263.1	10382.4	10812.0	11217.8	12641.9
30°	17900.7	17900.7	17431.3	16015.2	13946.7	11846.3	10652.9	10597.2	10660.9	11201.9	12928.3
32.5°	19595.3	19364.6	18688.4	17749.6	15498.1	12602.1	10963.2	10979.1	10979.1	11496.2	13214.7
35°	20486.4	20860.3	20406.8	18879.3	16683.5	13859.1	11711.1	11591.7	11504.2	11822.4	13580.7
37.5°	21791.2	22013.9	21536.6	20637.6	18155.3	14877.5	12371.4	12275.9	11766.7	12077.0	14511.5
40°	22578.8	22539.0	22523.1	22109.4	20104.5	16078.8	13342.0	13095.4	12411.2	12976.0	15665.1
42.5°	23024.3	22944.8	23923.3	23668.7	21942.3	17845.0	14559.3	14424.0	13668.2	14575.2	17447.2
45°	23525.5	24114.3	24917.8	25633.8	24082.5	20327.3	16619.8	16428.9	15752.6	16906.2	19826.1
47.5°	23963.1	24687.1	25713.4	26477.2	26015.7	23024.3	19165.7	19213.5	18767.9	19953.4	22809.5
50°	24695.1	24766.7	26158.9	27702.4	28060.4	25514.5	22586.7	22507.2	22308.3	23971.1	26055.5
52.5°	24472.3	24687.1	26445.3	28418.4	29007.1	28147.9	26262.4	26501.0	26238.5	28330.9	29778.9
55°	20844.4	21488.8	26270.3	29174.2	31250.7	31123.4	30988.2	30829.0	30813.1	33231.7	34520.6
57.5°	19197.5	19722.6	23143.7	30009.6	33653.4	34592.2	35467.3	35642.3	35634.4	38554.2	39063.4
60°	18115.5	18656.5	21878.7	29556.1	35698.0	39135.0	40813.7	40837.5	40789.8	44242.7	42595.8
62.5°	15999.3	16524.4	19690.8	27073.9	36262.9	43327.7	47067.0	47377.3	45189.4	49143.5	44783.7
65°	13453.4	13883.0	16675.5	23278.9	34759.2	45992.9	51768.9	51402.9	48896.8	51943.9	45404.2
67°	11003.0	11289.4	14010.3	19985.2	30829.0	44712.1	53129.4	53431.7	50607.4	52063.3	44290.4
67.5°	10302.9	10565.4	13135.2	18863.4	29333.3	43741.4	53177.1	53129.4	50639.2	52087.2	43709.6
70°	7152.3	7263.7	8950.4	12976.0	21608.2	36955.1	49294.6	49406.0	48515.0	49262.8	38578.1
72.5°	4741.7	4908.8	5982.8	8178.6	12737.4	26890.9	41203.5	42396.9	41832.0	40392.0	28338.8
75°	3055.1	3150.5	3914.3	4869.0	6269.2	15315.1	30439.2	31234.8	29938.0	24981.5	15872.0
77.5°	1710.5	1813.9	2362.9	2959.6	3055.1	6372.7	17097.2	18083.7	15323.0	10613.1	6340.8
80°	1066.1	1201.3	1782.1	1758.2	1455.9	2339.0	7048.9	7550.1	6126.0	3651.7	2116.3
82.5°	803.5	907.0	1376.4	1233.2	819.5	1042.2	2641.4	2832.3	2243.6	1408.2	930.8
85°	549.0	692.2	994.5	763.8	429.6	501.2	1050.2	1129.7	1026.3	684.2	373.9
87.5°	198.9	294.4	517.1	381.9	190.9	151.2	342.1	381.9	366.0	310.3	167.1
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°	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5	10557.5
2.5°	10804.1	10915.5	10971.2	11297.4	11432.6	11408.7	11440.6	11488.3	11536.0	11599.7	11663.3
5°	10891.6	11233.7	11416.7	11798.6	12053.2	11941.8	12085.0	12045.2	11989.5	11981.6	12053.2
7.5°	11178.0	11615.6	12164.5	12268.0	12379.4	12100.9	11862.2	11536.0	11456.5	11178.0	11273.5
10°	11687.2	12045.2	12713.5	12753.3	12260.0	11544.0	11010.9	10334.7	10326.7	9921.0	9905.1
12.5°	12172.5	12578.2	13119.2	12888.5	11711.1	10732.5	9865.3	9125.4	8815.1	8608.3	8560.5
15°	12474.8	13143.1	13429.5	12435.0	10748.4	9427.7	8305.9	7510.4	7192.1	7041.0	7009.1
17.5°	12753.3	13684.1	13556.8	11639.5	9563.0	8083.2	6746.6	6054.4	5966.9	5855.5	5911.2
20°	13135.2	13883.0	13103.3	10605.2	8218.4	6348.8	5497.5	5163.4	5242.9	5290.7	5235.0
22.5°	13493.2	13986.4	12530.5	9475.5	6492.0	5028.1	4606.5	4678.1	4797.4	4956.5	4869.0
25°	13652.3	14153.5	11758.8	7916.1	4940.6	4232.5	4137.1	4256.4	4455.3	4463.2	4542.8
27.5°	13755.7	14034.2	10828.0	6396.5	3906.3	3699.5	3842.7	3930.2	3954.1	4049.5	4137.1
30°	13938.7	13787.5	9650.5	4574.6	3277.8	3285.8	3468.8	3468.8	3468.8	3540.4	3619.9
32.5°	14256.9	13620.5	8274.1	3341.5	2824.3	3078.9	3031.2	3015.3	2983.5	2895.9	2848.2
35°	14455.8	13167.0	6531.8	2474.3	2537.9	2824.3	2808.4	2561.8	2148.1	1941.2	2036.7
37.5°	14869.5	12936.3	4805.4	1909.4	2370.9	2697.0	2609.5	2012.8	1559.4	1360.5	1352.5
40°	15760.6	12785.1	3325.6	1670.7	2259.5	2633.4	2331.1	1718.5	1193.4	843.3	819.5
42.5°	16850.6	12793.1	2259.5	1575.3	2267.4	2768.6	2243.6	1471.8	843.3	676.2	660.3
45°	18314.4	12673.7	1551.4	1575.3	2410.6	2991.4	2299.2	1336.6	819.5	859.2	875.1
47.5°	19889.7	12777.1	1153.6	1432.1	2434.5	2999.4	2100.4	1312.7	787.6	994.5	1105.9
50°	21727.5	12880.6	954.7	1320.7	2442.5	2903.9	1933.3	1280.9	819.5	1050.2	1217.2
52.5°	23621.0	13206.8	811.5	1249.1	2537.9	2864.1	1933.3	1328.6	819.5	914.9	938.8
55°	26445.3	14042.1	1169.5	1559.4	2888.0	3126.7	2378.8	1861.7	1145.6	1177.5	1241.1
57.5°	29564.1	14901.4	1304.8	1638.9	2967.5	2816.4	2561.8	2052.6	1209.3	1217.2	1177.5
60°	31616.7	14933.2	1296.8	1599.1	2776.6	2434.5	2506.1	2164.0	1233.2	1042.2	1074.0
62.5°	32436.1	13962.6	1352.5	1599.1	2585.7	2275.4	2569.7	2331.1	1272.9	1304.8	1320.7
65°	31505.3	11957.7	1304.8	1432.1	2275.4	2036.7	2585.7	2362.9	1392.3	1312.7	1288.9
67°	30049.4	10302.9	1328.6	1360.5	2116.3	1933.3	2720.9	2482.2	1615.0	1575.3	1551.4
67.5°	29635.7	9865.3	1320.7	1320.7	2060.6	1901.5	2752.7	2482.2	1646.9	1631.0	1599.1
70°	26119.2	7995.7	1352.5	1304.8	1821.9	1806.0	2927.8	2617.5	1893.5	1909.4	1766.2
72.5°	19881.7	6062.4	1344.5	1304.8	1583.2	1726.4	2951.6	2705.0	2060.6	1909.4	1694.6
75°	11297.4	3627.9	1185.4	1137.7	1249.1	1503.7	2760.7	2577.7	2004.9	1710.5	1527.5
77.5°	4670.1	1869.6	1090.0	1026.3	1034.3	1225.2	2299.2	2402.7	1909.4	1455.9	1376.4
80°	1742.3	1121.8	875.1	819.5	795.6	899.0	1638.9	1917.4	1631.0	1193.4	1090.0
82.5°	907.0	700.1	596.7	596.7	541.0	572.8	883.1	1272.9	1233.2	819.5	644.4
85°	461.4	397.8	342.1	334.1	302.3	270.5	445.5	755.8	708.1	453.5	373.9
87.5°	246.6	222.8	143.2	135.2	111.4	71.6	79.6	151.2	246.6	198.9	143.2
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)