

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: P977438

Luminaire Tested: **EPH-VN-08-E-735-U-T2R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977438
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-735-U-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66976.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

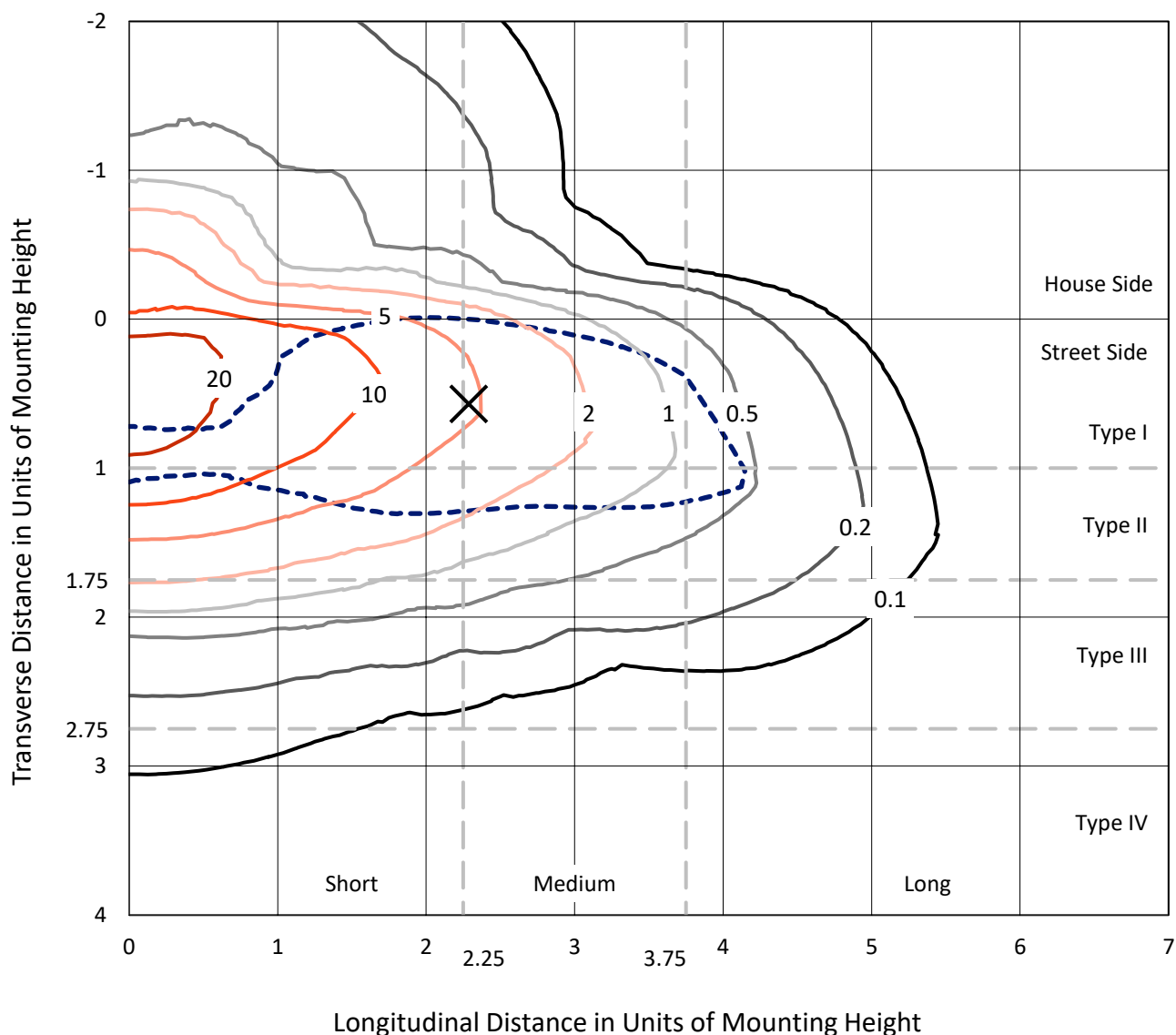
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

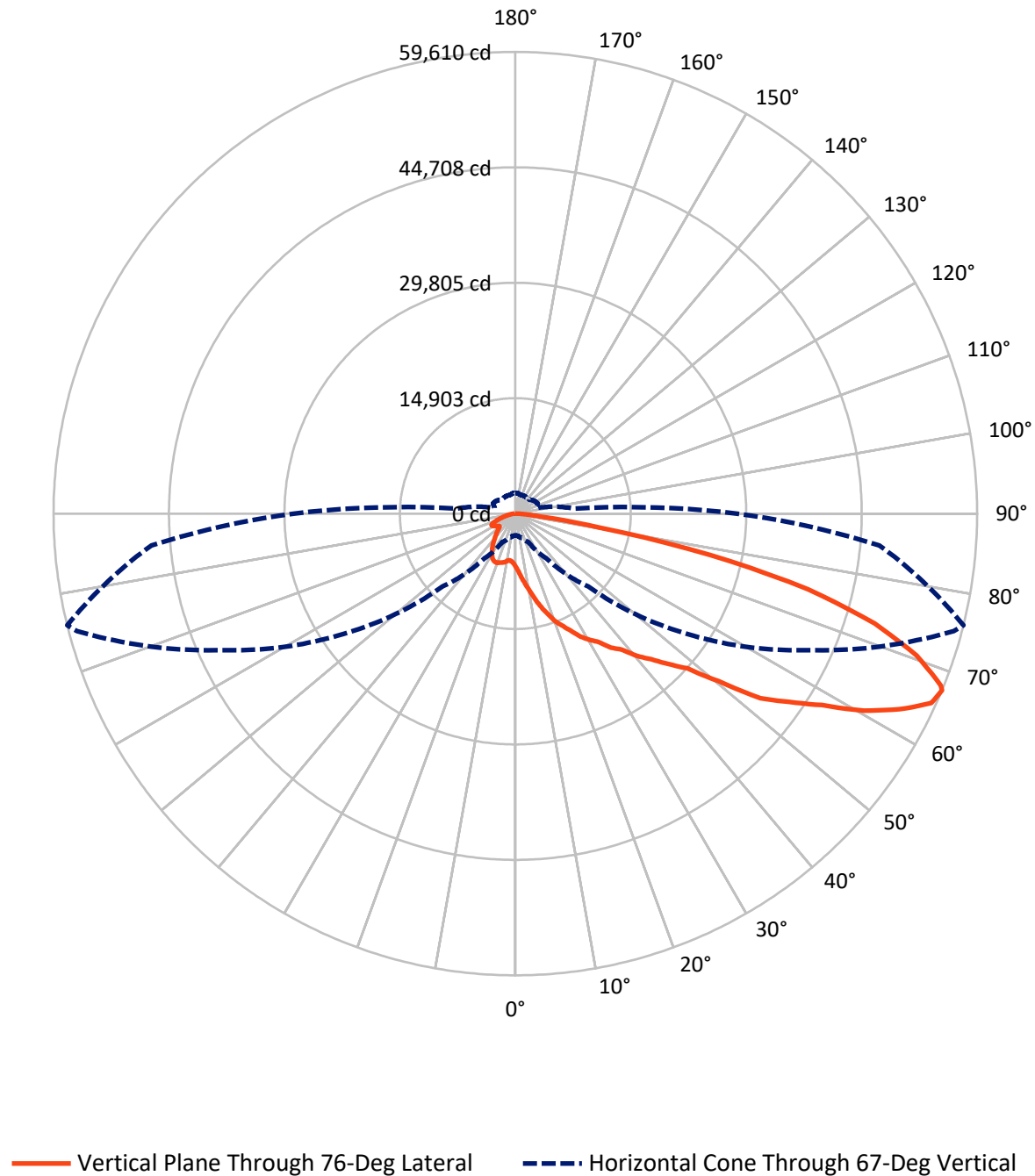


Based on 25 foot mounting height. Maximum calculated value = 25.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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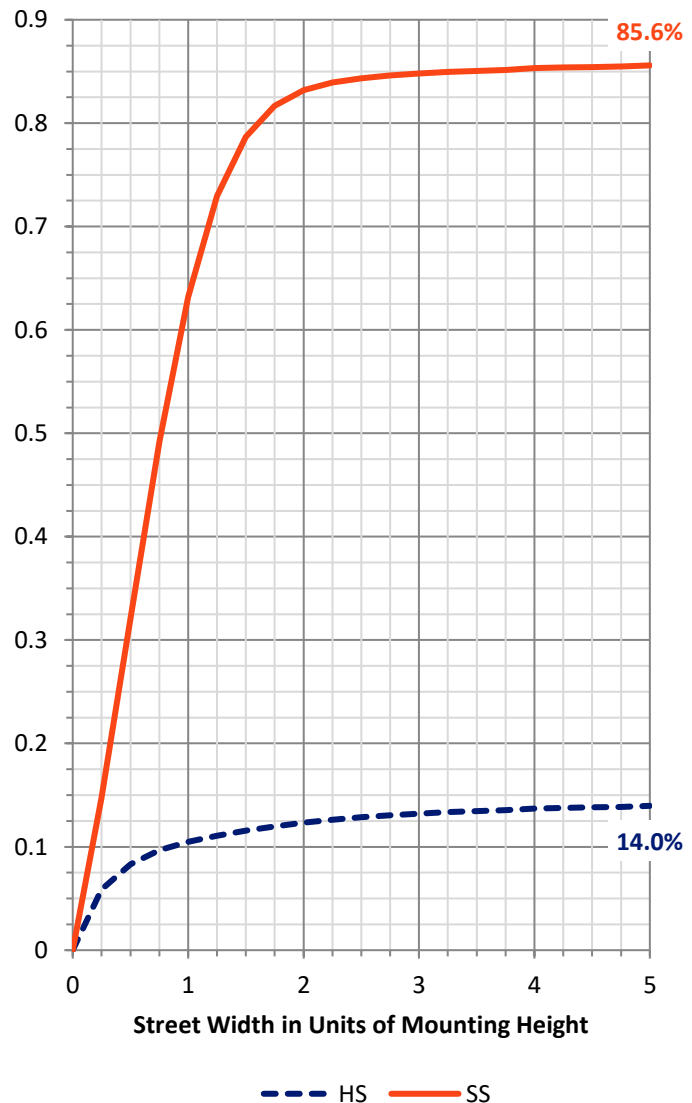
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9528.3	0.0	9528.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	57448.5	0.0	57448.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	66976.8	0.0	66976.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.9	1.2
10°-20°	2977.7	4.4
20°-30°	5535.9	8.3
30°-40°	8775.7	13.1
40°-50°	12137.6	18.1
50°-60°	14930.0	22.3
60°-70°	13893.1	20.7
70°-80°	6971.5	10.4
80°-90°	961.3	1.4
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°	66976.8	100.0
0°-180°	66976.8	100.0

Coefficient of Utilization



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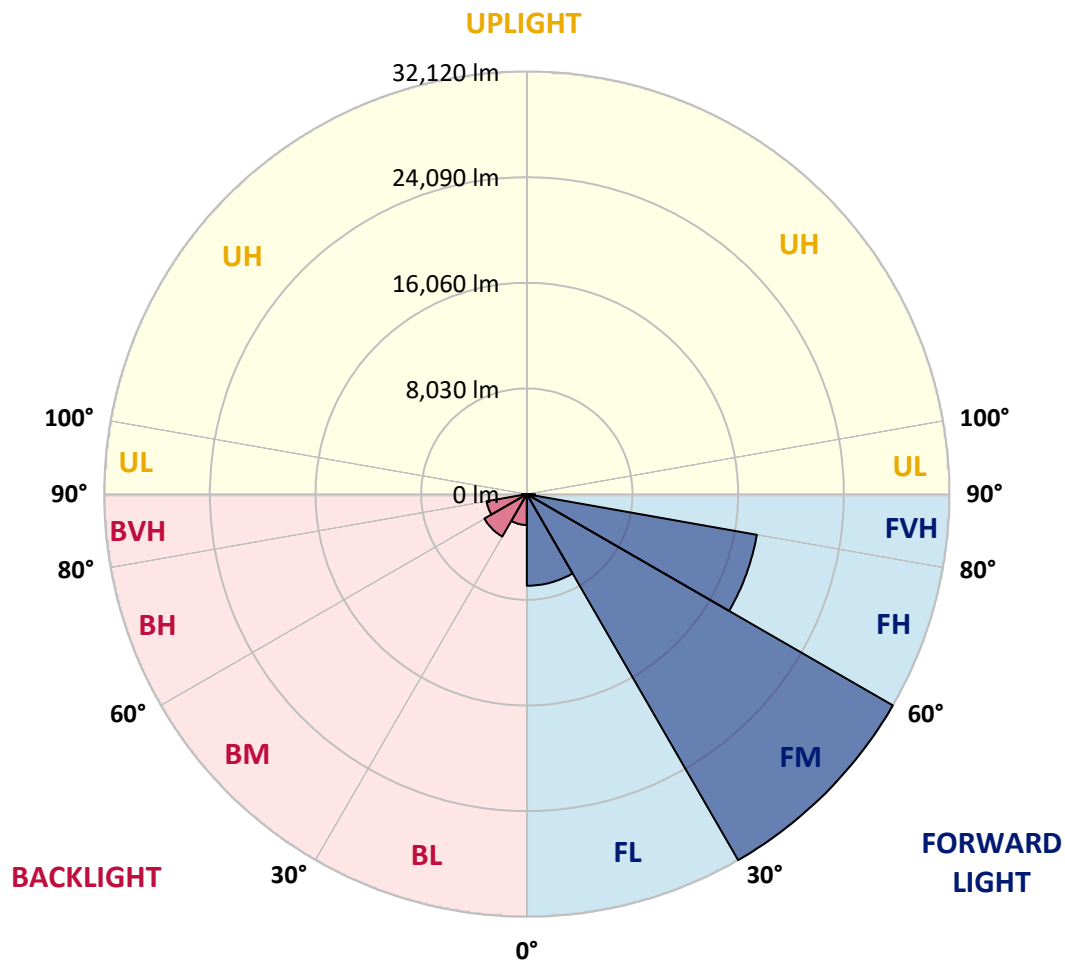
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6961.1	10.4			
FM	(30°-60°)	32119.9	48.0			
FH	(60°-80°)	17755.0	26.5			G5
FVH	(80°-90°)	612.4	0.9			G4/750
BL	(0°-30°)	2346.4	3.5	B3/2500		
BM	(30°-60°)	3723.5	5.6	B3/5000		
BH	(60°-80°)	3109.6	4.6	B4/5000		G4/5000
BVH	(80°-90°)	348.8	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0
2.5°	9510.2	9395.7	9281.2	9037.0	8953.0	8724.0	8304.2	7838.6	7457.0	7403.6	7136.5
5°	11800.0	11632.0	11593.9	11456.5	11021.4	10578.7	9891.8	9143.8	8212.6	8281.3	7365.4
7.5°	13517.3	13418.1	13212.0	13082.2	12822.7	12235.0	11525.2	10532.9	9349.9	9120.9	7876.8
10°	14814.8	14677.4	14669.8	14555.3	14417.9	13814.9	13273.0	11937.3	10418.5	10105.5	8502.7
12.5°	15471.2	15448.3	15852.8	15852.8	15799.4	15547.5	14616.4	13395.2	11433.6	11326.7	9227.8
15°	16181.0	15990.2	16341.3	16608.5	16745.9	16875.6	16104.7	14814.8	12731.1	12525.0	10006.3
17.5°	16181.0	16165.8	16516.9	16959.6	17677.0	17844.9	17425.2	16120.0	13807.3	13654.7	10861.1
20°	15906.3	16127.6	16371.9	16967.2	17745.7	18425.0	18547.1	17455.7	14998.0	14875.9	11830.5
22.5°	17188.5	16974.8	17226.7	17455.7	18058.7	19089.1	19424.9	18631.1	16249.7	15784.2	12708.2
25°	19340.9	19195.9	19012.7	18676.9	18928.8	19379.1	19890.5	19501.2	17318.3	16799.3	13555.4
27.5°	21439.9	21447.5	21050.6	20317.9	19776.0	19867.6	20470.5	20264.5	18218.9	17990.0	14135.5
30°	24424.2	24241.0	23798.4	22806.1	21745.2	20875.1	20775.9	20974.3	19363.8	18921.1	14967.5
32.5°	26660.6	26698.7	26072.9	24645.6	23195.4	22485.5	21615.4	21699.4	20088.9	19760.7	15631.5
35°	28469.5	28423.7	27981.0	26797.9	25080.6	24225.8	23050.4	22569.5	21775.7	21256.7	16646.6
37.5°	30423.4	30049.4	29332.0	27996.3	26897.2	25714.1	24569.2	23485.4	22897.7	22271.8	17516.7
40°	31209.6	31209.6	30247.9	29637.3	28332.1	27439.1	26698.7	24691.4	24263.9	24141.8	18631.1
42.5°	30652.4	30995.9	30599.0	29904.4	29370.1	28240.5	28042.1	25943.1	25950.7	25706.5	19966.8
45°	30599.0	30125.7	29797.5	29973.1	29721.2	29660.2	30163.9	27675.7	27721.5	27691.0	21760.5
47.5°	29064.8	28851.1	29339.6	29629.6	29835.7	30782.2	32232.3	29744.1	30072.3	29843.3	23828.9
50°	27538.3	27500.1	27805.4	28858.7	29751.8	31308.8	34201.5	32934.5	34010.7	33995.5	27576.5
52.5°	23355.7	23760.2	24958.5	27187.2	29393.0	32026.3	35689.9	37010.3	39063.5	39620.7	30682.9
55°	19356.2	19142.5	20913.2	24149.4	27828.3	32308.7	37353.8	39460.4	42482.9	42887.4	33873.3
57.5°	15059.1	15456.0	16852.7	19959.2	24592.1	30911.9	38575.0	41879.9	46345.0	46657.9	37575.1
60°	11235.1	11288.6	12822.7	15326.2	20287.4	27759.7	38971.9	44360.5	50771.8	51664.9	41452.5
62.5°	7067.8	7388.3	8556.1	11021.4	15272.8	23348.0	37193.5	45864.1	55412.5	55649.1	45360.4
65°	3808.7	4014.7	4892.5	6441.9	10670.3	17661.8	32476.6	44963.5	57595.4	58999.8	47100.6
67°	2816.4	2854.6	3259.1	4114.0	7136.5	13295.9	27080.4	41704.4	58587.6	59610.4	47169.3
67.5°	2640.9	2694.3	3014.9	3694.2	6327.4	12242.6	25668.3	40544.2	58144.9	59244.0	46635.0
70°	2259.2	2274.5	2350.8	2541.6	3549.1	7365.4	17478.6	33224.6	53893.6	54946.9	42887.4
72.5°	2007.4	2022.6	2053.2	2091.3	2404.3	4259.0	10632.2	25569.1	46841.1	48520.2	37002.7
75°	1763.1	1816.6	1831.8	1801.3	2045.5	2770.6	5655.7	18791.4	38208.6	39025.3	28774.8
77.5°	1496.0	1518.9	1549.4	1579.9	1824.2	2068.4	2717.2	12685.3	26225.5	25729.4	15562.8
80°	1259.4	1267.0	1289.9	1312.8	1579.9	1579.9	1541.8	6854.0	11456.5	10952.7	5258.8
82.5°	900.6	954.1	1007.5	1068.6	1312.8	1060.9	1007.5	3053.0	3625.5	3449.9	1778.4
85°	351.1	427.4	664.0	732.7	832.0	572.4	671.7	1320.4	1511.2	1496.0	664.0
87.5°	61.1	68.7	183.2	282.4	305.3	198.4	320.6	473.2	564.8	610.6	244.2
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°	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0	6854.0
2.5°	6915.1	6678.5	6396.1	6113.7	5930.5	5640.5	5617.6	5442.0	5419.1	5358.1	5388.6
5°	6968.5	6686.1	6113.7	5663.4	5457.3	5289.4	5327.5	5251.2	5228.3	5190.1	5129.1
7.5°	7388.3	6831.1	5976.3	5587.0	5434.4	5358.1	5358.1	5266.5	5197.8	5243.6	5289.4
10°	7663.1	6899.8	6083.2	5693.9	5571.8	5403.9	5464.9	5350.4	5388.6	5297.0	5297.0
12.5°	8105.8	7289.1	6304.5	5854.2	5655.7	5503.1	5564.1	5434.4	5403.9	5411.5	5388.6
15°	8701.1	7548.6	6403.7	5945.8	5808.4	5617.6	5571.8	5457.3	5342.8	5304.6	5350.4
17.5°	9258.3	7869.2	6472.4	5999.2	5777.9	5564.1	5510.7	5365.7	5327.5	5213.0	5121.5
20°	9922.3	8250.8	6564.0	6045.0	5663.4	5449.7	5312.3	5167.2	5037.5	4968.8	4999.3
22.5°	10365.0	8449.3	6609.8	5953.4	5495.4	5297.0	5007.0	4907.7	4724.6	4648.2	4587.2
25°	11090.1	8693.5	6495.3	5701.5	5197.8	4877.2	4617.7	4480.3	4350.6	4251.3	4220.8
27.5°	11273.3	8876.7	6228.2	5274.1	4724.6	4388.7	4167.4	3999.5	3915.5	3762.9	3732.3
30°	11807.6	8693.5	5831.3	4755.1	4274.2	3930.8	3709.4	3587.3	3388.9	3350.7	3266.7
32.5°	12151.0	8746.9	5327.5	4251.3	3755.2	3449.9	3304.9	3182.8	3129.4	2946.2	2900.4
35°	12723.5	8563.7	4816.2	3785.8	3327.8	3091.2	2969.1	2930.9	2755.4	2671.4	2595.1
37.5°	13089.9	8456.9	4304.8	3259.1	2862.2	2763.0	2801.2	2640.9	2427.2	2266.9	2213.4
40°	13731.0	8418.7	3724.7	2824.1	2541.6	2518.7	2640.9	2335.6	1946.3	1808.9	1732.6
42.5°	14654.5	8159.2	3274.4	2434.8	2289.8	2389.0	2411.9	1946.3	1725.0	1610.5	1557.0
45°	15539.9	8212.6	2831.7	2015.0	1992.1	2137.1	2083.7	1648.6	1518.9	1434.9	1480.7
47.5°	17242.0	8479.8	2396.6	1679.2	1793.7	1931.0	1618.1	1473.1	1351.0	1289.9	1297.5
50°	19875.2	8739.3	2015.0	1534.1	1694.4	1747.9	1389.1	1335.7	1328.1	1205.9	1198.3
52.5°	21455.2	8640.1	1946.3	1717.3	1816.6	1747.9	1511.2	1473.1	1412.0	1358.6	1297.5
55°	23966.3	8930.1	2091.3	2007.4	2060.8	1679.2	1694.4	1679.2	1633.4	1496.0	1534.1
57.5°	25966.0	9120.9	2282.1	2244.0	2213.4	1747.9	1770.8	1778.4	1747.9	1686.8	1740.2
60°	28713.7	9502.5	2480.6	2488.2	2495.9	1900.5	1938.7	1984.5	1976.8	1953.9	1969.2
62.5°	30400.5	9327.0	2701.9	2824.1	2785.9	2213.4	2205.8	2236.3	2236.3	2274.5	2297.4
65°	30148.6	8678.2	2816.4	3121.7	2923.3	2442.4	2442.4	2457.7	2465.3	2541.6	2549.3
67°	28637.4	7518.1	2755.4	3167.5	2923.3	2534.0	2534.0	2549.3	2495.9	2694.3	2633.2
67.5°	27935.2	7174.6	2701.9	3129.4	2900.4	2526.4	2526.4	2534.0	2488.2	2679.0	2618.0
70°	24294.5	5327.5	2327.9	2770.6	2686.7	2457.7	2457.7	2411.9	2373.7	2625.6	2572.2
72.5°	20737.7	3869.7	1870.0	2358.5	2427.2	2366.1	2381.4	2266.9	2160.0	2335.6	2289.8
75°	15883.4	2846.9	1457.8	1816.6	2053.2	2213.4	2312.7	2022.6	1885.2	1931.0	1847.1
77.5°	8861.4	1854.7	1152.5	1343.3	1564.7	2060.8	2221.1	1824.2	1541.8	1488.4	1488.4
80°	3007.2	1083.8	847.2	999.9	1076.2	1824.2	2076.1	1480.7	1213.6	1160.2	1122.0
82.5°	1137.3	664.0	580.1	686.9	686.9	1442.6	1694.4	1137.3	915.9	1183.0	1205.9
85°	519.0	396.9	381.6	396.9	396.9	885.4	1198.3	740.4	824.3	709.8	625.9
87.5°	206.1	190.8	175.5	167.9	137.4	152.7	412.2	198.4	374.0	99.2	91.6
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)