

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: P977457

Luminaire Tested: **EPH-VN-08-E-730-U-T4W**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977457
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-T4W
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62153.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

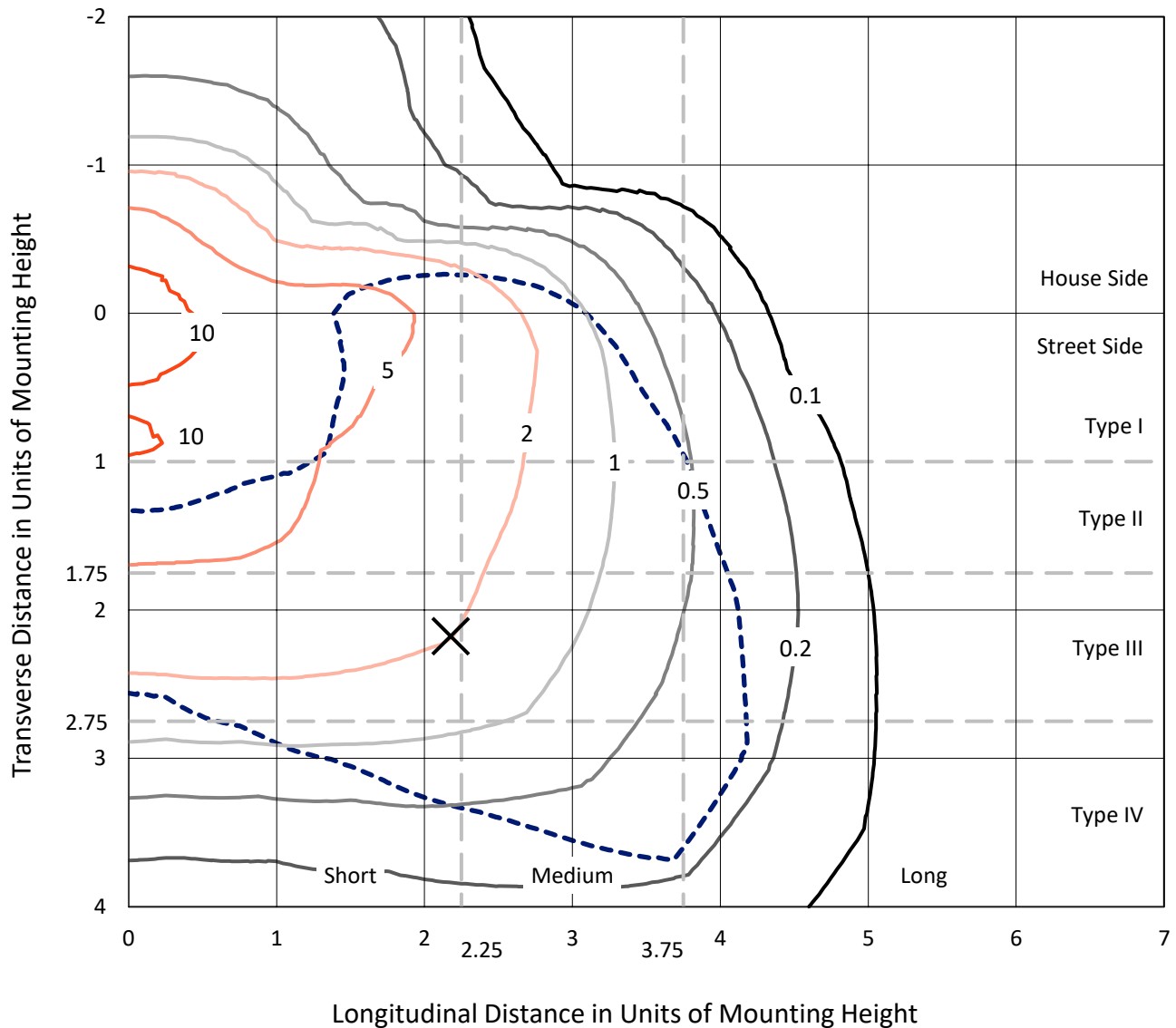
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

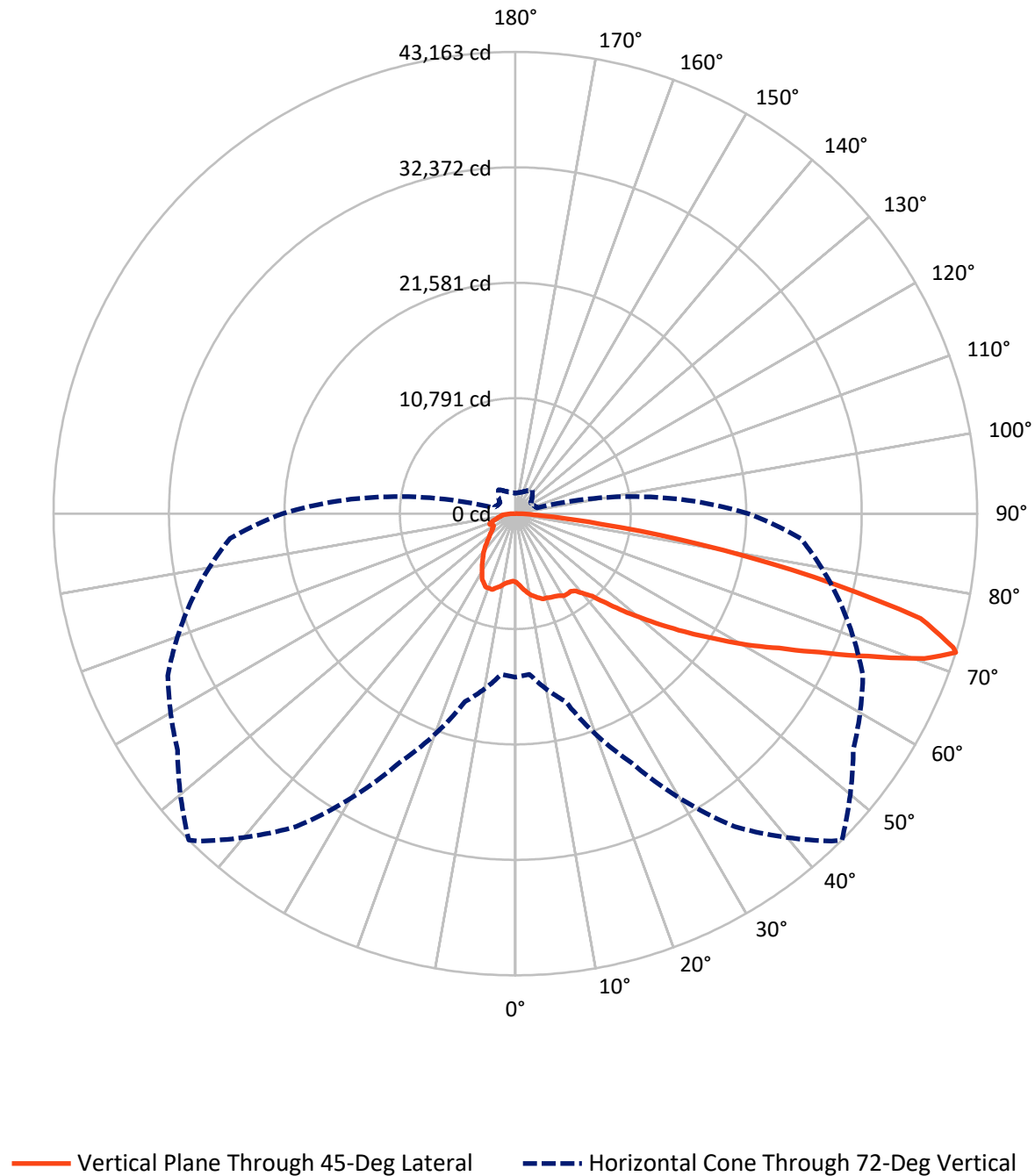


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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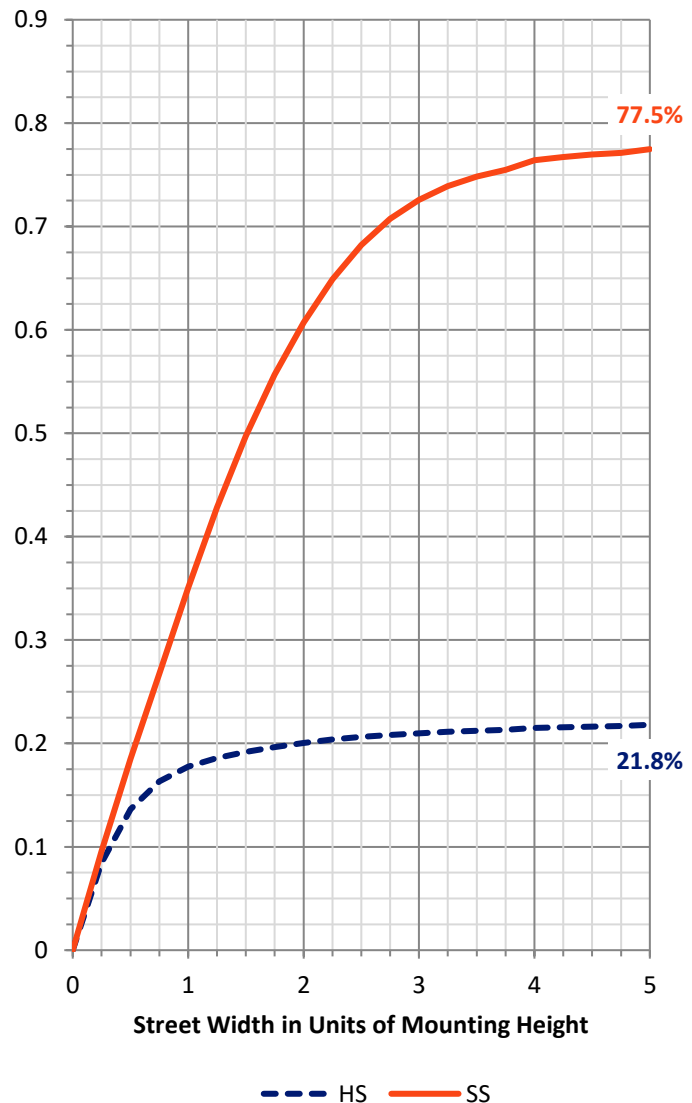
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13835.7	0.0	13835.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	48317.7	0.0	48317.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	62153.4	0.0	62153.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.0	1.1
10°-20°	2179.1	3.5
20°-30°	3679.9	5.9
30°-40°	5092.4	8.2
40°-50°	7284.2	11.7
50°-60°	11748.6	18.9
60°-70°	17327.5	27.9
70°-80°	12582.7	20.2
80°-90°	1604.0	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°	62153.4	100.0
0°-180°	62153.4	100.0

Coefficient of Utilization



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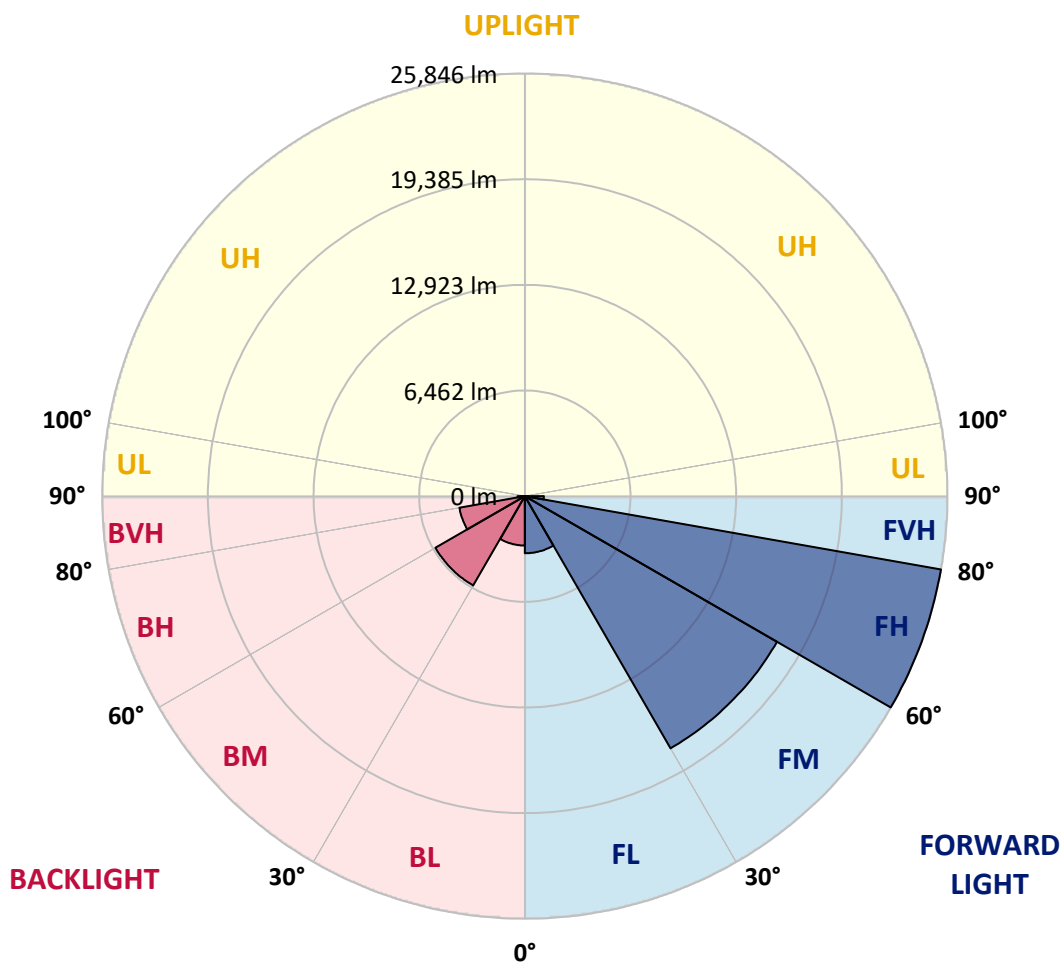
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3493.1	5.6			
FM	(30°-60°)	17811.0	28.7			
FH	(60°-80°)	25846.2	41.6			G5
FVH	(80°-90°)	1167.5	1.9			G5
BL	(0°-30°)	3020.9	4.9	B4/5000		
BM	(30°-60°)	6314.2	10.2	B4/8500		
BH	(60°-80°)	4064.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	436.5	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7
2.5°	6742.5	6782.7	6742.5	6735.8	6668.8	6621.9	6662.1	6601.7	6534.7	6507.9	6447.6
5°	7359.1	7365.8	7292.1	7298.8	7158.0	7010.6	7037.4	6856.4	6662.1	6588.3	6467.7
7.5°	7989.1	7915.4	7808.2	7774.6	7553.5	7392.6	7372.5	7211.7	6910.1	6742.5	6574.9
10°	8398.0	8424.8	8250.5	8103.1	7915.4	7721.0	7714.3	7412.7	7238.5	6990.5	6776.0
12.5°	8759.9	8766.6	8619.1	8384.6	8150.0	7908.7	7942.2	7808.2	7513.3	7278.7	7064.2
15°	9041.4	9001.2	8840.3	8625.8	8377.9	8190.2	8170.1	8056.1	7808.2	7613.8	7258.6
17.5°	9121.8	9101.7	8940.8	8713.0	8471.7	8330.9	8384.6	8196.9	8096.4	7922.1	7580.3
20°	8967.7	8920.7	8893.9	8639.2	8465.0	8451.6	8404.7	8444.9	8277.3	8116.5	7868.5
22.5°	8686.2	8666.1	8652.6	8451.6	8371.2	8431.5	8511.9	8572.2	8545.4	8391.3	8109.8
25°	8398.0	8491.8	8404.7	8310.8	8424.8	8578.9	8558.8	8753.2	8753.2	8706.3	8471.7
27.5°	8599.0	8538.7	8471.7	8424.8	8465.0	8706.3	8692.9	8927.4	9014.6	8927.4	8659.3
30°	9101.7	9041.4	8847.0	8639.2	8585.6	8847.0	8914.0	9121.8	9162.0	8947.5	8719.7
32.5°	10046.7	10013.2	9704.9	9095.0	8766.6	8914.0	8947.5	9182.1	9148.6	9014.6	8920.7
35°	11447.5	11333.6	10904.6	9872.5	9148.6	9001.2	8914.0	9101.7	9229.0	9162.0	9074.9
37.5°	12982.3	12855.0	12325.5	11018.6	9839.0	9235.7	9168.7	9322.9	9470.3	9436.8	9255.9
40°	14450.1	14450.1	13974.3	12452.8	10864.4	9805.4	9818.8	9644.6	9778.6	9718.3	9751.8
42.5°	15897.8	15844.2	15649.8	14135.1	11963.6	10757.2	10542.7	10107.0	10348.3	10328.2	10375.1
45°	17365.6	17325.4	17271.8	15703.4	13538.6	12044.0	11930.1	11145.9	11367.1	11273.2	11474.3
47.5°	18538.5	18585.4	18585.4	17452.7	15220.9	13759.8	13592.2	12352.3	12774.6	12821.5	12868.4
50°	19537.2	19557.3	19537.2	19121.6	17097.5	15723.6	15381.7	14121.7	14544.0	14912.6	15341.5
52.5°	20917.8	20944.6	20850.8	20689.9	19644.4	17787.9	17405.8	16005.1	16869.6	17258.4	18029.1
55°	22620.2	22419.1	22244.9	22365.5	22090.7	20059.9	19664.5	17948.7	19249.0	19765.0	21306.6
57.5°	22935.2	23109.5	23551.8	24510.2	24905.7	22271.7	22043.8	20334.7	21936.6	22385.6	24959.3
60°	24047.8	23759.6	24845.4	26923.1	27365.4	25153.7	24919.1	22948.6	24610.8	25079.9	28330.6
62.5°	24778.3	24764.9	26373.5	28839.9	29845.3	28142.9	27667.0	26346.7	27499.5	27955.2	32003.4
65°	24563.9	24758.2	27613.4	29965.9	31916.3	31540.9	31266.2	29268.9	30790.3	30750.1	34396.1
67.5°	22606.8	23156.4	26829.2	30776.9	34999.3	35683.0	35595.8	33377.4	33464.5	32613.3	35461.8
70°	19892.4	19704.7	23511.6	29932.4	36540.8	40595.7	40575.6	36433.6	35870.6	33022.1	32405.5
72°	15281.2	15073.4	18203.4	25703.3	35729.9	42559.5	43162.7	38551.5	35843.8	31326.5	26768.9
72.5°	13873.7	13692.8	16809.3	24195.2	34831.8	43068.9	42787.4	38632.0	35562.3	30528.9	25006.2
75°	6387.3	6179.5	8398.0	14812.0	27171.1	38162.8	39121.2	36152.1	31058.4	24302.5	14979.6
77.5°	1903.4	1843.1	2701.0	5978.4	15790.6	28116.1	28484.7	27278.3	21681.9	13310.7	5556.2
80°	1059.0	1065.7	1394.1	2238.6	6943.6	16253.0	17580.1	16849.5	10636.5	4396.7	1849.8
82.5°	589.8	623.3	871.3	1327.1	3190.3	7459.6	8029.3	7741.1	3847.1	2064.3	1012.0
85°	308.3	321.7	455.8	710.4	1809.6	2359.2	2426.2	2600.5	1997.3	1407.5	542.9
87.5°	120.6	120.6	167.6	294.9	670.2	730.5	656.8	797.6	1146.1	911.5	268.1
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°	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7	6400.7
2.5°	6501.2	6447.6	6440.9	6353.8	6380.6	6306.8	6313.6	6300.1	6306.8	6293.4	6259.9
5°	6467.7	6427.5	6313.6	6387.3	6320.3	6414.1	6487.8	6461.0	6481.1	6474.4	6481.1
7.5°	6514.6	6461.0	6447.6	6407.4	6467.7	6507.9	6568.2	6735.8	6722.4	6742.5	6782.7
10°	6655.4	6595.0	6554.8	6615.2	6581.6	6709.0	6776.0	6863.1	7017.3	7024.0	6943.6
12.5°	6930.2	6889.9	6809.5	6822.9	6936.9	6977.1	7017.3	7070.9	7171.4	7151.3	7225.1
15°	7245.2	7158.0	7111.1	7097.7	7124.5	7171.4	7164.7	7218.4	7272.0	7318.9	7298.8
17.5°	7473.0	7359.1	7372.5	7439.5	7432.8	7419.4	7332.3	7305.5	7332.3	7359.1	7345.7
20°	7707.6	7721.0	7620.5	7560.2	7533.4	7399.3	7332.3	7251.9	7171.4	7211.7	7272.0
22.5°	8002.5	7942.2	7794.8	7613.8	7479.7	7399.3	7191.5	7050.8	7050.8	7091.0	7070.9
25°	8337.6	8210.3	7955.6	7627.2	7459.6	7117.8	6970.4	6950.3	6896.6	6957.0	6983.8
27.5°	8599.0	8485.1	8136.6	7580.3	7117.8	6843.0	6755.9	6729.1	6816.2	6822.9	6930.2
30°	8706.3	8672.8	8163.4	7459.6	6769.3	6327.0	6273.3	6394.0	6487.8	6628.6	6635.3
32.5°	8847.0	8860.4	8203.6	7178.1	6313.6	5871.2	5790.8	5938.2	6206.3	6320.3	6407.4
35°	9081.6	9148.6	8170.1	6829.6	5831.0	5408.7	5395.3	5435.6	5696.9	5898.0	6011.9
37.5°	9490.4	9477.0	8163.4	6414.1	5449.0	5006.6	4899.4	4912.8	5087.0	5254.6	5234.5
40°	10040.0	9986.4	8143.3	5871.2	4953.0	4664.8	4483.8	4416.8	4403.4	4356.5	4369.9
42.5°	10790.7	10683.4	8136.6	5321.6	4503.9	4195.6	4068.3	3894.0	3766.7	3525.4	3538.8
45°	11836.2	11648.6	7962.3	4805.5	4061.6	3806.9	3612.5	3485.2	3210.4	2908.8	2908.8
47.5°	13451.5	12841.6	7969.0	4235.8	3632.6	3424.9	3290.8	3069.6	2774.7	2533.5	2506.7
50°	15830.8	14436.7	7741.1	3786.8	3284.1	3143.4	3002.6	2747.9	2466.4	2298.9	2319.0
52.5°	18900.4	16816.0	7734.4	3384.7	3009.3	2908.8	2754.6	2526.8	2319.0	2211.8	2171.5
55°	22559.9	19966.1	7975.7	3056.2	2727.8	2674.2	2607.2	2419.5	2218.5	2124.6	2117.9
57.5°	26306.5	23042.4	8364.4	2821.7	2486.5	2526.8	2479.8	2332.4	2171.5	2064.3	2050.9
60°	29637.5	25482.1	7580.3	2540.2	2272.1	2359.2	2426.2	2298.9	2211.8	2205.1	2158.1
62.5°	32150.9	26527.6	5764.0	2325.7	2158.1	2319.0	2500.0	2580.4	2540.2	2593.8	2600.5
65°	33069.1	25897.6	3967.8	2211.8	2071.0	2412.8	2815.0	2788.1	2553.6	2453.0	2506.7
67.5°	31782.2	23344.1	2942.3	2077.7	2010.7	2607.2	2995.9	2660.8	2305.6	2292.2	2252.0
70°	27331.9	19785.1	2399.4	1937.0	1910.2	2500.0	2915.5	2466.4	2171.5	2084.4	2044.2
72°	21775.7	15408.5	2104.5	1836.4	1749.3	2231.9	2727.8	2312.3	2057.6	1950.4	1903.4
72.5°	19879.0	14282.6	2064.3	1789.5	1715.8	2171.5	2634.0	2265.4	2030.8	1937.0	1863.2
75°	10904.6	7312.2	1816.3	1642.1	1447.7	1876.6	2439.6	2124.6	1916.9	1782.8	1769.4
77.5°	4054.9	2835.1	1568.3	1454.4	1253.3	1622.0	2218.5	2017.4	1742.6	1575.0	1541.5
80°	1554.9	1494.6	1280.1	1226.5	1052.3	1420.9	2044.2	1809.6	1481.2	1313.6	1260.0
82.5°	945.0	871.3	971.8	958.4	804.3	1293.5	1923.6	1695.7	1313.6	1065.7	1032.2
85°	516.1	516.1	676.9	650.1	563.0	1032.2	1454.4	1126.0	831.1	683.6	697.0
87.5°	227.9	268.1	361.9	341.8	308.3	583.1	710.4	596.5	415.5	281.5	301.6
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)