

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: P977490

Luminaire Tested: **EPH-VN-08-E-750-U-SL4**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977490
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-SL4
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66813.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

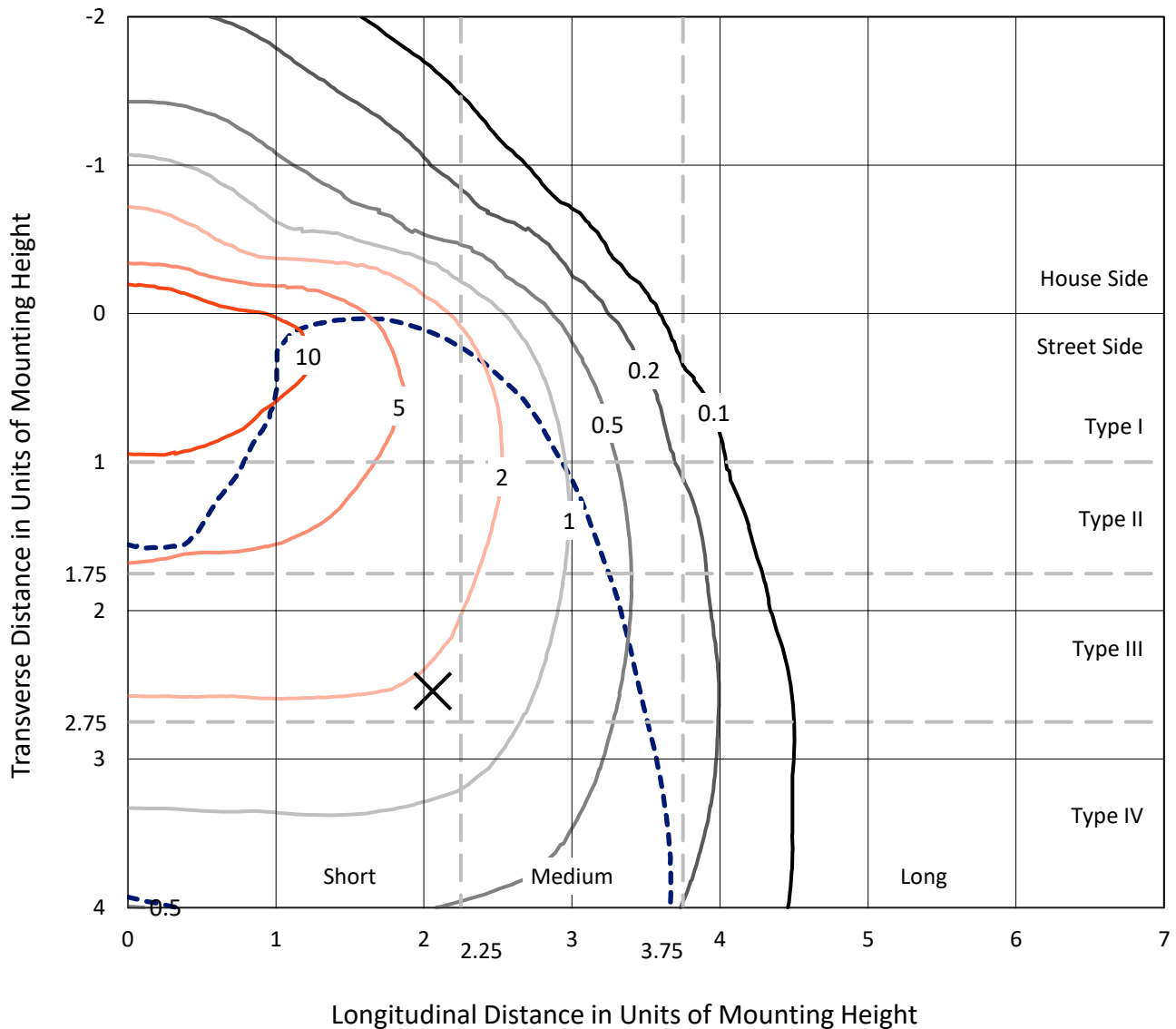
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

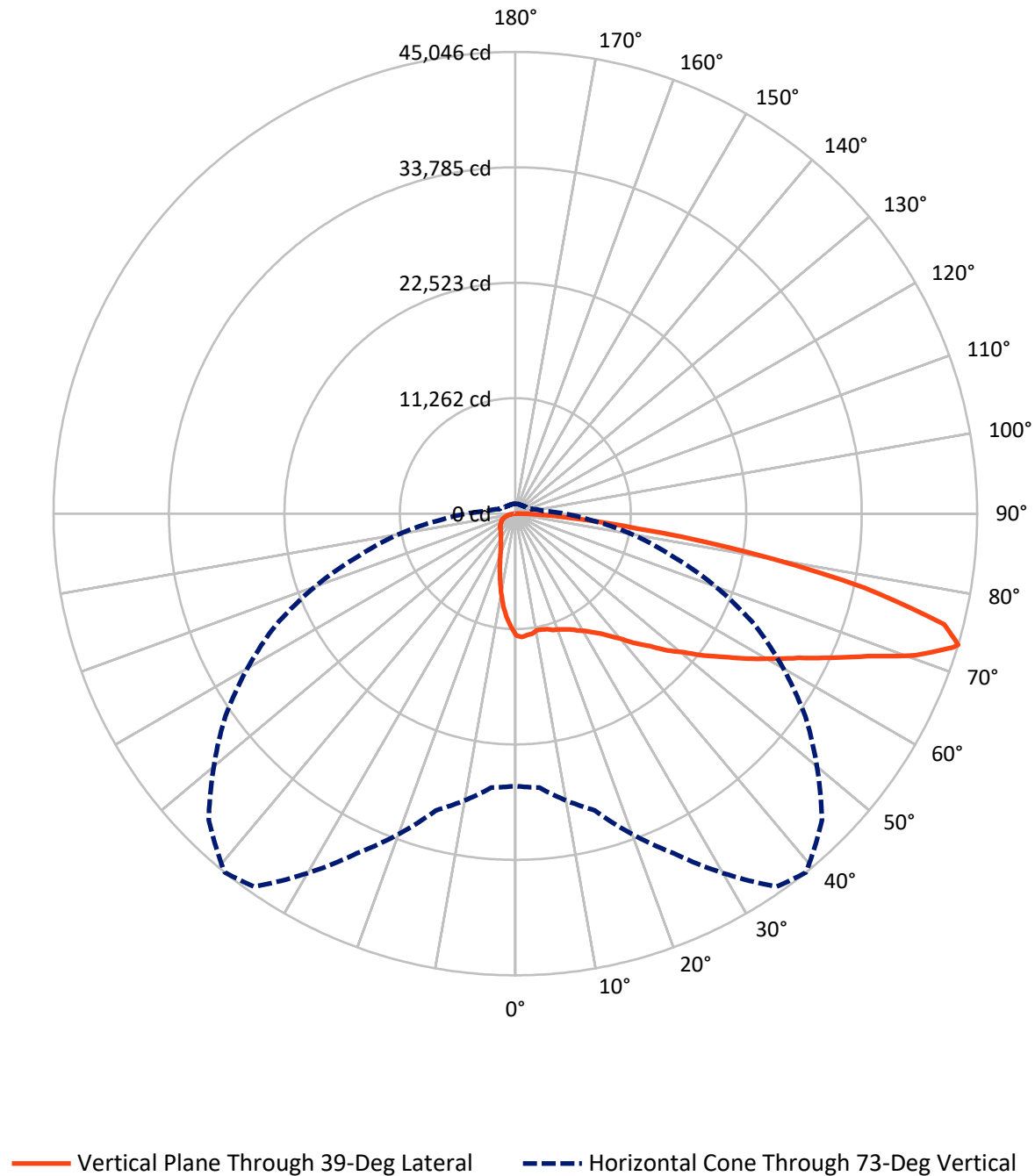
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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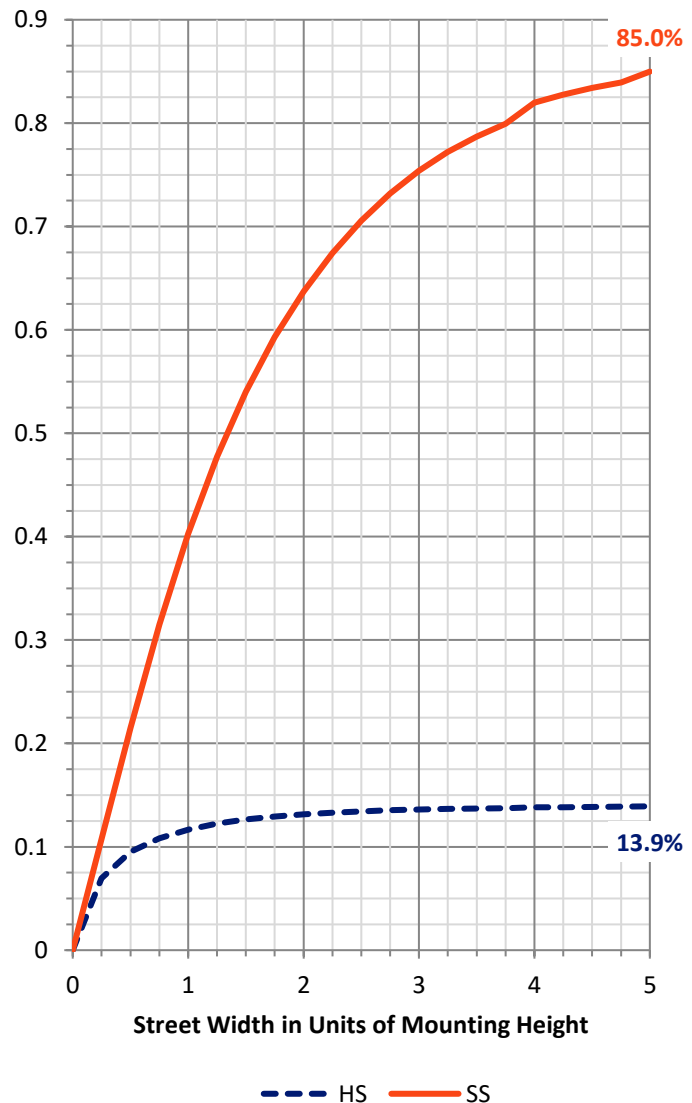
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9392.2	0.0	9392.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	57421.7	0.0	57421.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	66813.8	0.0	66813.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.4	1.5
10°-20°	2624.6	3.9
20°-30°	4010.7	6.0
30°-40°	5847.6	8.8
40°-50°	8836.4	13.2
50°-60°	12795.6	19.2
60°-70°	16257.5	24.3
70°-80°	13179.2	19.7
80°-90°	2229.8	3.3
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°	66813.8	100.0
0°-180°	66813.8	100.0

Coefficient of Utilization



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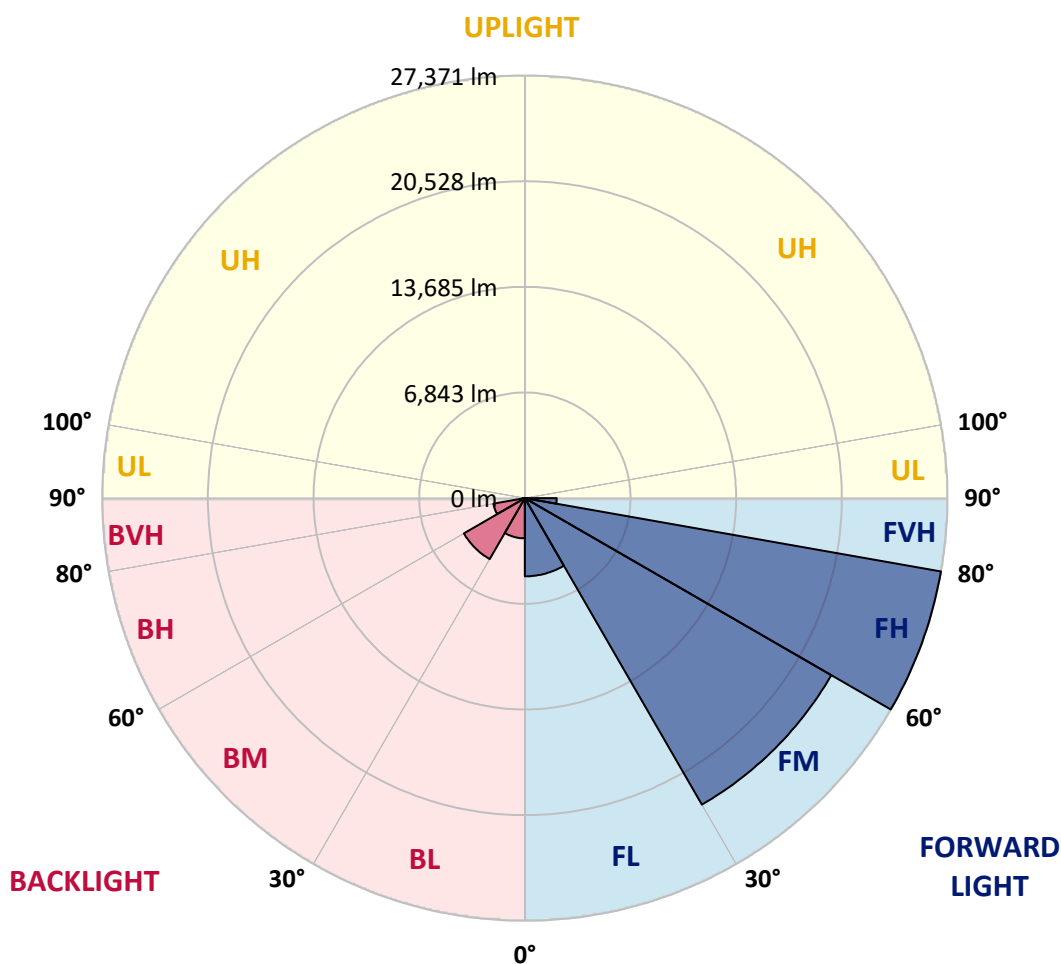
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5063.0	7.6			
FM	(30°-60°)	22921.4	34.3			
FH	(60°-80°)	27371.0	41.0			G5
FVH	(80°-90°)	2066.3	3.1			G5
BL	(0°-30°)	2604.6	3.9	B4/5000		
BM	(30°-60°)	4558.2	6.8	B3/5000		
BH	(60°-80°)	2065.7	3.1	B3/2500		G3/2500
BVH	(80°-90°)	163.6	0.2			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3
2.5°	12177.3	12050.3	12072.7	12027.8	12072.7	12057.7	12035.3	11923.2	12035.3	11923.2	11893.3
5°	12012.9	12012.9	12087.6	11975.5	11990.4	11915.7	11990.4	11908.2	11833.5	11646.6	11594.3
7.5°	11960.5	11953.1	11960.5	11803.6	11878.3	11833.5	11758.7	11669.0	11519.5	11399.9	11228.0
10°	11601.7	11676.5	11594.3	11639.1	11698.9	11564.4	11556.9	11534.5	11467.2	11310.2	11205.5
12.5°	11407.4	11534.5	11579.3	11541.9	11594.3	11609.2	11564.4	11534.5	11452.2	11347.6	11048.6
15°	11489.6	11340.1	11467.2	11713.9	11661.5	11698.9	11706.4	11676.5	11639.1	11444.7	11250.4
17.5°	11512.0	11422.3	11691.4	11743.8	11811.0	11945.6	11855.9	11848.4	11706.4	11571.8	11287.8
20°	11564.4	11527.0	11743.8	12020.4	12027.8	12050.3	12095.1	11983.0	11908.2	11676.5	11242.9
22.5°	11758.7	11885.8	12087.6	12207.2	12274.5	12289.5	12289.5	12065.2	11983.0	11796.1	11452.2
25°	12341.8	12207.2	12491.3	12633.3	12536.1	12513.7	12461.4	12259.6	12169.9	12005.4	11549.4
27.5°	12767.9	12760.4	12924.9	13119.2	12857.6	12909.9	12723.0	12663.2	12461.4	12371.7	11721.3
30°	13351.0	13515.4	13507.9	13567.7	13223.9	13283.7	13044.5	12932.3	12820.2	12872.5	12229.7
32.5°	14098.5	14038.7	14135.9	14091.0	13747.2	13799.5	13515.4	13343.5	13380.9	13537.8	12924.9
35°	14576.9	14517.1	14554.5	14554.5	14449.8	14390.0	14270.4	14046.2	14225.6	14517.1	13702.3
37.5°	15092.7	15167.5	15384.3	15339.4	15204.8	15204.8	15189.9	15032.9	15264.6	15982.3	14943.2
40°	15548.7	15750.5	15885.1	15974.8	16131.8	16131.8	16258.9	16169.2	16587.8	17739.0	16460.7
42.5°	16027.1	16034.6	16767.2	16834.5	17185.8	17335.3	17432.5	17507.3	18292.2	19577.9	18082.9
45°	16640.1	16677.5	17320.4	17836.2	18381.9	18434.2	18800.5	19047.2	20011.5	21588.8	19847.0
47.5°	17447.4	17402.6	18090.3	18912.6	19592.9	19951.7	20392.7	20661.8	21850.4	23771.6	21775.7
50°	18508.9	18374.4	18770.6	20063.8	20863.7	21259.9	22044.8	22493.3	23883.7	25857.2	23098.8
52.5°	19802.2	19577.9	19891.9	21304.7	22201.8	23001.6	23749.2	24250.0	25700.2	27471.9	24078.1
55°	21170.2	20706.7	20796.4	22620.4	23913.6	24668.6	25692.8	26216.0	27696.1	28922.1	25057.3
57.5°	22523.2	22231.7	22052.3	23883.7	25954.4	26679.5	27621.4	28301.6	29557.5	30207.9	25887.1
60°	23659.5	23584.7	23293.2	25842.3	28114.8	28735.2	29722.0	30140.6	31090.0	31396.4	25902.1
62.5°	24593.9	24339.7	24803.2	27419.6	30312.5	31015.2	32099.1	32136.5	32809.3	32136.5	25139.6
65°	25326.5	25341.4	26081.5	29325.8	32854.1	33893.2	34767.8	34670.6	34237.1	31695.5	23338.0
67.5°	25991.8	26275.8	27359.8	31418.9	36120.9	37100.1	38071.9	36786.2	34625.8	29632.3	19817.1
70°	26515.0	26799.1	29086.6	33968.0	39970.7	41405.9	41622.7	37623.4	32839.2	25102.2	14950.7
72.5°	26455.2	26971.0	30065.8	36001.3	43386.9	44627.8	42878.6	35268.7	27359.8	17499.8	8723.7
73°	26582.3	26836.5	29983.6	36569.4	44426.0	45046.4	42295.5	34528.6	25804.9	15698.2	7378.2
75°	24130.4	24990.1	28496.0	35642.4	43312.1	43200.0	38946.5	28772.6	18344.5	8245.3	3573.2
77.5°	17851.1	18396.8	22455.9	29310.8	35552.7	34835.1	29378.1	18389.3	8708.8	3057.4	1928.6
80°	8723.7	9149.8	11900.7	16924.2	23248.3	23308.1	18232.4	9568.4	3730.2	1726.8	1315.7
82.5°	4358.1	4612.3	5718.6	7438.0	11437.3	11983.0	9247.0	5442.0	2309.9	979.3	747.5
85°	2848.1	3027.5	3520.9	3640.5	4851.5	5120.6	4305.8	4246.0	1502.5	530.7	605.5
87.5°	1891.3	1921.2	2160.4	1838.9	1943.6	1868.8	2078.1	2676.2	441.0	224.3	164.5
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°	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3	11893.3
2.5°	11855.9	11751.2	11639.1	11482.1	11370.0	11198.1	11041.1	10973.8	10958.9	10966.3	10891.6
5°	11549.4	11399.9	11175.6	10854.2	10667.3	10383.3	10144.0	10017.0	9882.4	9904.8	9845.0
7.5°	11123.3	10958.9	10615.0	10241.2	9777.7	9374.1	9149.8	8835.9	8656.4	8521.9	8596.6
10°	10988.8	10704.7	10188.9	9673.1	8955.5	8424.7	7908.9	7550.1	7303.4	7064.2	7168.9
12.5°	10921.5	10637.4	9919.8	9157.3	8230.4	7423.0	6697.9	6256.9	5905.5	5696.2	5778.4
15°	10861.7	10510.3	9665.6	8589.2	7550.1	6488.6	5673.8	5090.7	4754.3	4552.5	4574.9
17.5°	10943.9	10443.1	9291.9	8036.0	6802.6	5666.3	4761.8	4156.3	3812.4	3685.3	3655.4
20°	10861.7	10368.3	8925.6	7482.8	6055.0	4881.4	4014.3	3513.4	3274.2	3169.5	3147.1
22.5°	10891.6	10188.9	8544.3	6869.8	5359.8	4223.6	3513.4	3132.2	2945.3	2893.0	2907.9
25°	11033.6	10084.2	8163.1	6197.1	4672.1	3737.7	3192.0	2900.4	2765.9	2713.5	2728.5
27.5°	11138.3	10173.9	7819.2	5561.7	4089.0	3304.1	2922.9	2728.5	2638.8	2601.4	2593.9
30°	11399.9	10226.3	7482.8	4993.5	3610.6	3020.0	2736.0	2579.0	2519.2	2496.8	2489.3
32.5°	11788.6	10323.4	7094.1	4470.3	3259.2	2750.9	2586.5	2451.9	2437.0	2414.5	2422.0
35°	12424.0	10659.8	6660.5	4021.7	2922.9	2571.5	2429.5	2339.8	2339.8	2339.8	2362.2
37.5°	13336.0	11130.8	6271.8	3595.6	2706.1	2414.5	2294.9	2265.0	2250.1	2272.5	2287.5
40°	14509.6	11698.9	5957.8	3259.2	2519.2	2309.9	2205.2	2190.3	2182.8	2175.3	2190.3
42.5°	15795.4	12424.0	5688.7	2997.6	2384.6	2197.8	2123.0	2108.0	2078.1	2093.1	2115.5
45°	17073.7	13321.1	5449.5	2788.3	2294.9	2137.9	2033.3	2025.8	2010.9	2003.4	2040.8
47.5°	18494.0	14203.2	5374.8	2661.2	2227.7	2048.2	1973.5	1966.0	1921.2	1913.7	1943.6
50°	19600.3	14853.5	5457.0	2601.4	2130.5	1981.0	1928.6	1891.3	1853.9	1816.5	1816.5
52.5°	20362.8	15302.0	5516.8	2556.6	2078.1	1891.3	1824.0	1809.0	1771.7	1734.3	1719.3
55°	21050.6	15571.1	5531.8	2564.0	2025.8	1786.6	1741.8	1734.3	1711.9	1652.1	1637.1
57.5°	21282.3	15459.0	5232.7	2496.8	1995.9	1719.3	1659.5	1674.5	1644.6	1592.2	1584.8
60°	21259.9	14681.6	4552.5	2407.1	1928.6	1644.6	1569.8	1614.7	1614.7	1554.9	1547.4
62.5°	19966.6	12887.5	3722.7	2235.1	1853.9	1569.8	1487.6	1554.9	1577.3	1539.9	1532.4
65°	17283.0	10495.4	3109.7	2063.2	1741.8	1487.6	1405.4	1480.1	1517.5	1502.5	1495.1
67.5°	14300.3	8028.5	2586.5	1838.9	1599.7	1375.5	1308.2	1360.5	1382.9	1390.4	1397.9
70°	10106.7	5344.9	2160.4	1592.2	1405.4	1255.9	1181.1	1188.6	1181.1	1203.5	1203.5
72.5°	5494.4	3079.8	1756.7	1353.0	1211.0	1091.4	1039.1	1001.7	1001.7	994.2	994.2
73°	4702.0	2765.9	1674.5	1315.7	1158.7	1061.5	1001.7	971.8	971.8	964.3	956.8
75°	2638.8	2025.8	1435.3	1128.8	1001.7	926.9	882.1	837.2	829.8	829.8	829.8
77.5°	1734.3	1577.3	1143.7	904.5	807.3	740.1	725.1	680.3	680.3	680.3	672.8
80°	1300.7	1240.9	882.1	687.7	620.5	568.1	553.2	523.3	515.8	485.9	493.4
82.5°	867.1	979.3	642.9	485.9	418.6	388.7	388.7	381.2	358.8	321.4	321.4
85°	687.7	799.9	463.5	299.0	246.7	209.3	216.8	209.3	201.8	164.5	157.0
87.5°	127.1	321.4	134.6	82.2	59.8	37.4	37.4	22.4	15.0	0.0	0.0
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)