

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: P977437

Luminaire Tested: **EPH-VN-08-E-730-U-T2R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977437
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-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61836.2 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

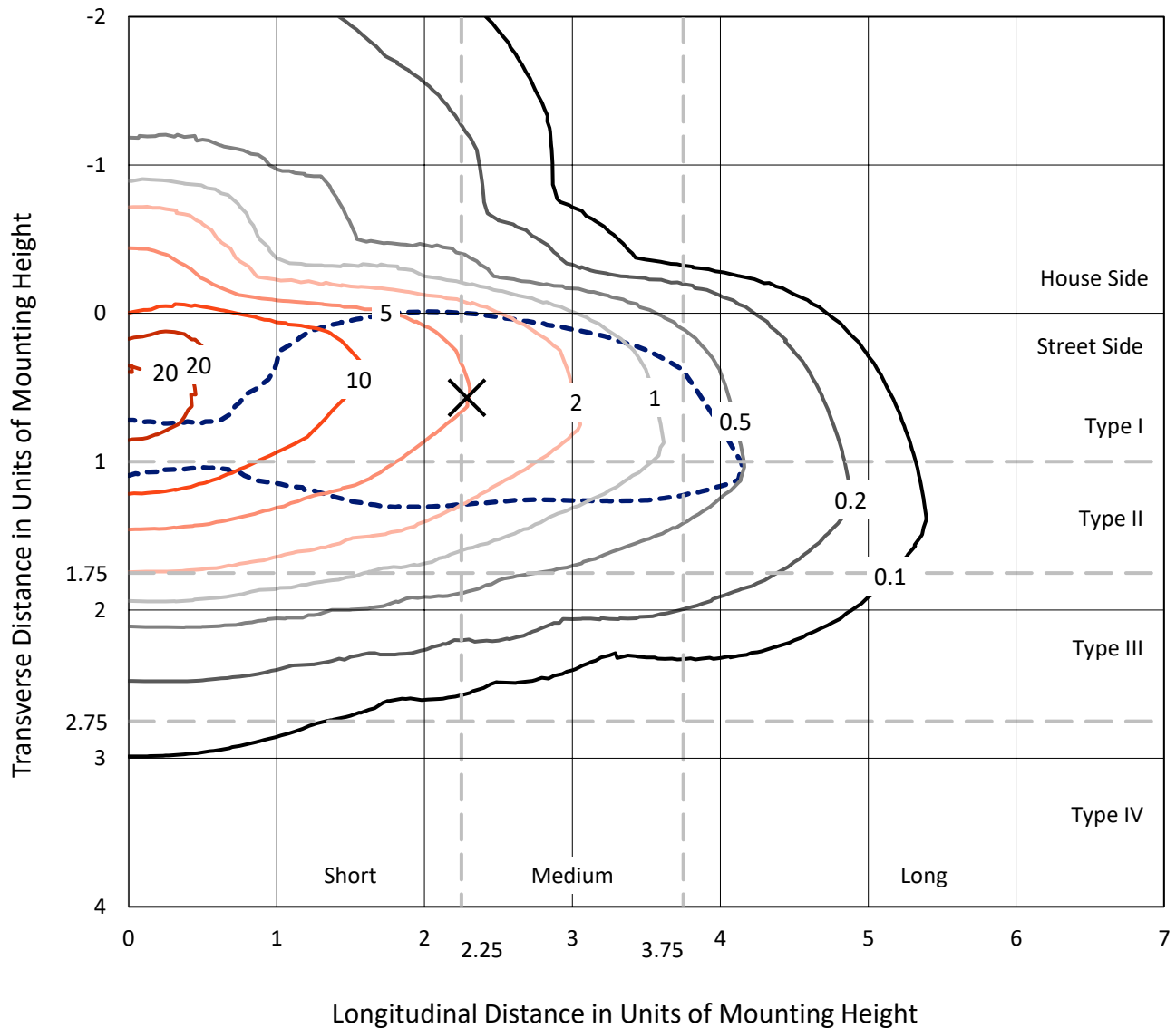
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

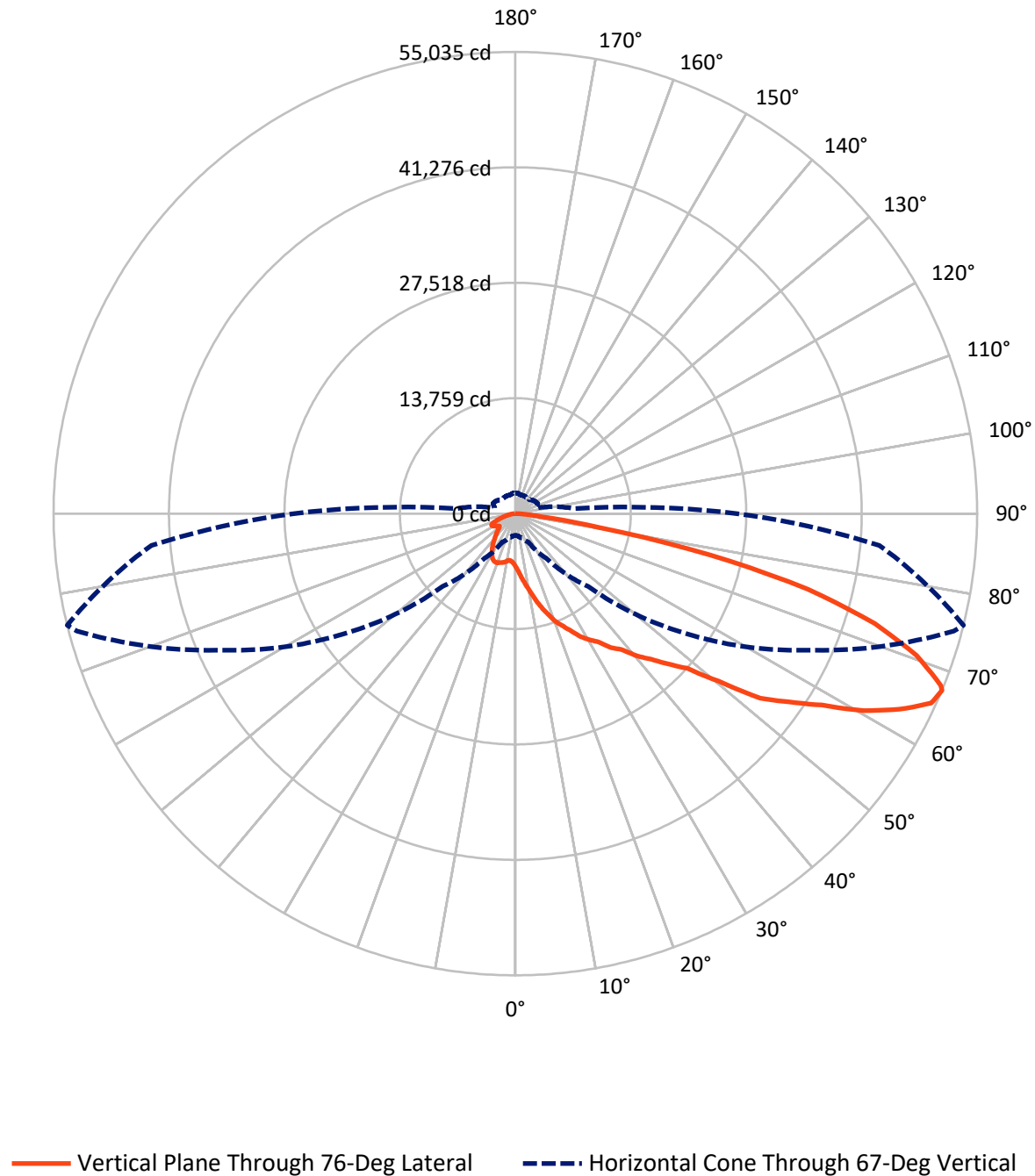


Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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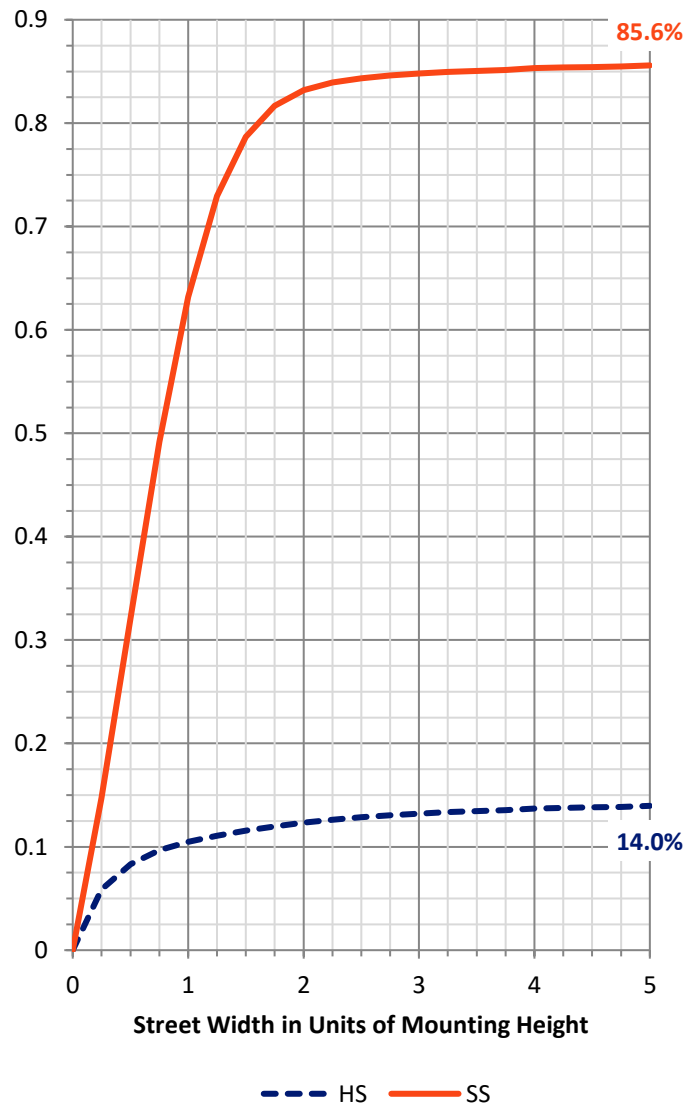
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8797.0	0.0	8797.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	53039.2	0.0	53039.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	61836.2	0.0	61836.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.0	1.2
10°-20°	2749.1	4.4
20°-30°	5111.1	8.3
30°-40°	8102.2	13.1
40°-50°	11206.0	18.1
50°-60°	13784.1	22.3
60°-70°	12826.8	20.7
70°-80°	6436.4	10.4
80°-90°	887.5	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°	61836.2	100.0
0°-180°	61836.2	100.0

Coefficient of Utilization



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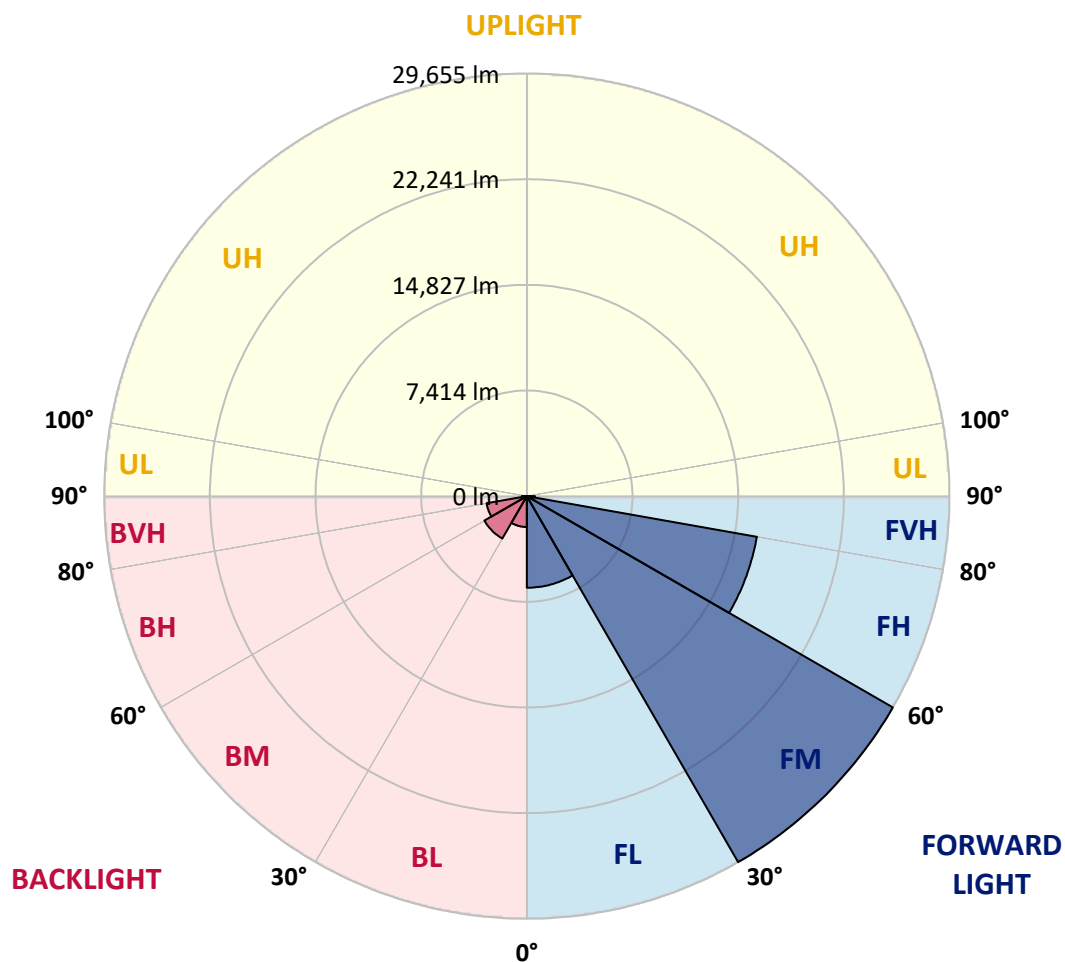
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6426.9	10.4			
FM	(30°-60°)	29654.6	48.0			
FH	(60°-80°)	16392.3	26.5			G5
FVH	(80°-90°)	565.4	0.9			G4/750
BL	(0°-30°)	2166.3	3.5	B3/2500		
BM	(30°-60°)	3437.7	5.6	B3/5000		
BH	(60°-80°)	2870.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	322.0	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°	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0
2.5°	8780.3	8674.6	8568.9	8343.4	8265.8	8054.4	7666.9	7237.0	6884.7	6835.4	6588.7
5°	10894.3	10739.3	10704.0	10577.2	10175.5	9766.8	9132.6	8442.0	7582.3	7645.7	6800.1
7.5°	12479.8	12388.2	12197.9	12078.1	11838.6	11296.0	10640.6	9724.5	8632.3	8420.9	7272.3
10°	13677.8	13550.9	13543.9	13438.2	13311.3	12754.6	12254.3	11021.1	9618.8	9329.9	7850.1
12.5°	14283.8	14262.6	14636.1	14636.1	14586.8	14354.2	13494.5	12367.1	10556.0	10457.4	8519.5
15°	14939.1	14763.0	15087.1	15333.7	15460.6	15580.4	14868.7	13677.8	11754.0	11563.7	9238.3
17.5°	14939.1	14925.0	15249.2	15657.9	16320.3	16475.3	16087.7	14882.8	12747.6	12606.6	10027.5
20°	14685.4	14889.8	15115.3	15664.9	16383.7	17010.9	17123.6	16115.9	13846.9	13734.1	10922.5
22.5°	15869.3	15672.0	15904.5	16115.9	16672.6	17623.9	17934.0	17201.1	15002.5	14572.7	11732.9
25°	17856.5	17722.6	17553.5	17243.4	17476.0	17891.7	18363.9	18004.5	15989.1	15509.9	12515.0
27.5°	19794.3	19801.4	19435.0	18758.5	18258.1	18342.7	18899.4	18709.1	16820.6	16609.2	13050.6
30°	22549.6	22380.5	21971.8	21055.7	20076.2	19272.9	19181.3	19364.5	17877.6	17468.9	13818.7
32.5°	24614.3	24649.6	24071.7	22754.0	21415.1	20759.7	19956.4	20033.9	18547.1	18244.1	14431.8
35°	26284.4	26242.1	25833.4	24741.2	23155.6	22366.4	21281.2	20837.3	20104.4	19625.2	15369.0
37.5°	28088.4	27743.1	27080.7	25847.5	24832.8	23740.5	22683.5	21682.9	21140.3	20562.4	16172.3
40°	28814.2	28814.2	27926.3	27362.6	26157.6	25333.1	24649.6	22796.3	22401.6	22288.9	17201.1
42.5°	28299.8	28616.9	28250.5	27609.2	27115.9	26073.0	25889.8	23951.9	23959.0	23733.5	18434.3
45°	28250.5	27813.6	27510.5	27672.6	27440.1	27383.7	27848.8	25551.5	25593.8	25565.6	20090.3
47.5°	26834.1	26636.7	27087.7	27355.5	27545.8	28419.6	29758.5	27461.2	27764.2	27552.8	22000.0
50°	25424.7	25389.5	25671.3	26643.8	27468.3	28905.8	31576.5	30406.8	31400.4	31386.3	25459.9
52.5°	21563.1	21936.6	23042.9	25100.6	27137.1	29568.2	32950.6	34169.7	36065.3	36579.7	28328.0
55°	17870.6	17673.3	19308.1	22295.9	25692.5	29828.9	34486.8	36431.7	39222.3	39595.7	31273.5
57.5°	13903.3	14269.7	15559.2	18427.3	22704.7	28539.4	35614.3	38665.6	42787.9	43076.8	34691.2
60°	10372.8	10422.2	11838.6	14149.9	18730.3	25629.1	35980.7	40955.8	46875.0	47699.5	38270.9
62.5°	6525.3	6821.3	7899.4	10175.5	14100.6	21556.0	34338.9	42344.0	51159.5	51377.9	41878.9
65°	3516.3	3706.6	4517.0	5947.5	9851.4	16306.2	29984.0	41512.5	53174.8	54471.4	43485.5
67°	2600.3	2635.5	3009.0	3798.2	6588.7	12275.5	25001.9	38503.5	54090.9	55035.2	43549.0
67.5°	2438.2	2487.5	2783.5	3410.6	5841.8	11303.0	23698.2	37432.4	53682.2	54696.9	43055.7
70°	2085.8	2099.9	2170.4	2346.6	3276.7	6800.1	16137.1	30674.5	49757.2	50729.6	39595.7
72.5°	1853.3	1867.4	1895.6	1930.8	2219.7	3932.1	9816.1	23606.6	43246.0	44796.2	34162.7
75°	1627.8	1677.1	1691.2	1663.0	1888.5	2558.0	5221.6	17349.1	35276.1	36030.1	26566.3
77.5°	1381.2	1402.3	1430.5	1458.7	1684.2	1909.7	2508.6	11711.7	24212.7	23754.6	14368.3
80°	1162.7	1169.8	1190.9	1212.0	1458.7	1458.7	1423.4	6328.0	10577.2	10112.1	4855.2
82.5°	831.5	880.8	930.2	986.5	1212.0	979.5	930.2	2818.7	3347.2	3185.1	1641.9
85°	324.2	394.6	613.1	676.5	768.1	528.5	620.1	1219.1	1395.3	1381.2	613.1
87.5°	56.4	63.4	169.1	260.7	281.9	183.2	296.0	436.9	521.5	563.7	225.5
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°	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0	6328.0
2.5°	6384.4	6165.9	5905.2	5644.5	5475.3	5207.6	5186.4	5024.3	5003.2	4946.8	4975.0
5°	6433.7	6173.0	5644.5	5228.7	5038.4	4883.4	4918.6	4848.2	4827.0	4791.8	4735.4
7.5°	6821.3	6306.8	5517.6	5158.2	5017.3	4946.8	4946.8	4862.3	4798.8	4841.1	4883.4
10°	7074.9	6370.3	5616.3	5256.9	5144.1	4989.1	5045.5	4939.8	4975.0	4890.4	4890.4
12.5°	7483.7	6729.7	5820.6	5404.9	5221.6	5080.7	5137.1	5017.3	4989.1	4996.2	4975.0
15°	8033.3	6969.2	5912.2	5489.4	5362.6	5186.4	5144.1	5038.4	4932.7	4897.5	4939.8
17.5°	8547.7	7265.2	5975.7	5538.8	5334.4	5137.1	5087.8	4953.9	4918.6	4812.9	4728.4
20°	9160.8	7617.5	6060.2	5581.0	5228.7	5031.4	4904.5	4770.7	4650.9	4587.4	4615.6
22.5°	9569.5	7800.8	6102.5	5496.5	5073.7	4890.4	4622.7	4531.1	4361.9	4291.5	4235.1
25°	10238.9	8026.3	5996.8	5263.9	4798.8	4502.9	4263.3	4136.4	4016.7	3925.0	3896.9
27.5°	10408.1	8195.4	5750.2	4869.3	4361.9	4051.9	3847.5	3692.5	3615.0	3474.1	3445.9
30°	10901.3	8026.3	5383.7	4390.1	3946.2	3629.1	3424.7	3312.0	3128.8	3093.5	3016.0
32.5°	11218.4	8075.6	4918.6	3925.0	3467.0	3185.1	3051.2	2938.5	2889.2	2720.0	2677.8
35°	11746.9	7906.5	4446.5	3495.2	3072.4	2853.9	2741.2	2706.0	2543.9	2466.4	2395.9
37.5°	12085.2	7807.8	3974.4	3009.0	2642.5	2550.9	2586.2	2438.2	2240.9	2092.9	2043.6
40°	12677.1	7772.6	3438.8	2607.3	2346.6	2325.4	2438.2	2156.3	1796.9	1670.1	1599.6
42.5°	13529.8	7533.0	3023.1	2247.9	2114.0	2205.6	2226.8	1796.9	1592.6	1486.9	1437.5
45°	14347.2	7582.3	2614.3	1860.3	1839.2	1973.1	1923.8	1522.1	1402.3	1324.8	1367.1
47.5°	15918.6	7828.9	2212.7	1550.3	1656.0	1782.8	1493.9	1360.0	1247.3	1190.9	1197.9
50°	18349.8	8068.5	1860.3	1416.4	1564.4	1613.7	1282.5	1233.2	1226.1	1113.4	1106.3
52.5°	19808.4	7976.9	1796.9	1585.5	1677.1	1613.7	1395.3	1360.0	1303.7	1254.3	1197.9
55°	22126.8	8244.7	1930.8	1853.3	1902.6	1550.3	1564.4	1550.3	1508.0	1381.2	1416.4
57.5°	23973.1	8420.9	2107.0	2071.7	2043.6	1613.7	1634.8	1641.9	1613.7	1557.3	1606.7
60°	26509.9	8773.2	2290.2	2297.2	2304.3	1754.6	1789.9	1832.2	1825.1	1804.0	1818.1
62.5°	28067.2	8611.1	2494.6	2607.3	2572.1	2043.6	2036.5	2064.7	2064.7	2099.9	2121.1
65°	27834.7	8012.2	2600.3	2882.1	2698.9	2255.0	2255.0	2269.1	2276.1	2346.6	2353.6
67°	26439.4	6941.1	2543.9	2924.4	2698.9	2339.5	2339.5	2353.6	2304.3	2487.5	2431.1
67.5°	25791.1	6624.0	2494.6	2889.2	2677.8	2332.5	2332.5	2339.5	2297.2	2473.4	2417.0
70°	22429.8	4918.6	2149.3	2558.0	2480.5	2269.1	2269.1	2226.8	2191.5	2424.1	2374.8
72.5°	19146.0	3572.7	1726.5	2177.4	2240.9	2184.5	2198.6	2092.9	1994.2	2156.3	2114.0
75°	14664.3	2628.4	1345.9	1677.1	1895.6	2043.6	2135.2	1867.4	1740.5	1782.8	1705.3
77.5°	8181.3	1712.4	1064.1	1240.2	1444.6	1902.6	2050.6	1684.2	1423.4	1374.1	1374.1
80°	2776.4	1000.6	782.2	923.1	993.6	1684.2	1916.7	1367.1	1120.4	1071.1	1035.9
82.5°	1050.0	613.1	535.6	634.2	634.2	1331.8	1564.4	1050.0	845.6	1092.2	1113.4
85°	479.2	366.4	352.3	366.4	366.4	817.4	1106.3	683.5	761.0	655.3	577.8
87.5°	190.3	176.2	162.1	155.0	126.8	140.9	380.5	183.2	345.3	91.6	84.6
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)