

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: STREETWORKS

Report Number: P835924

Luminaire Tested: **ARCH3-110-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

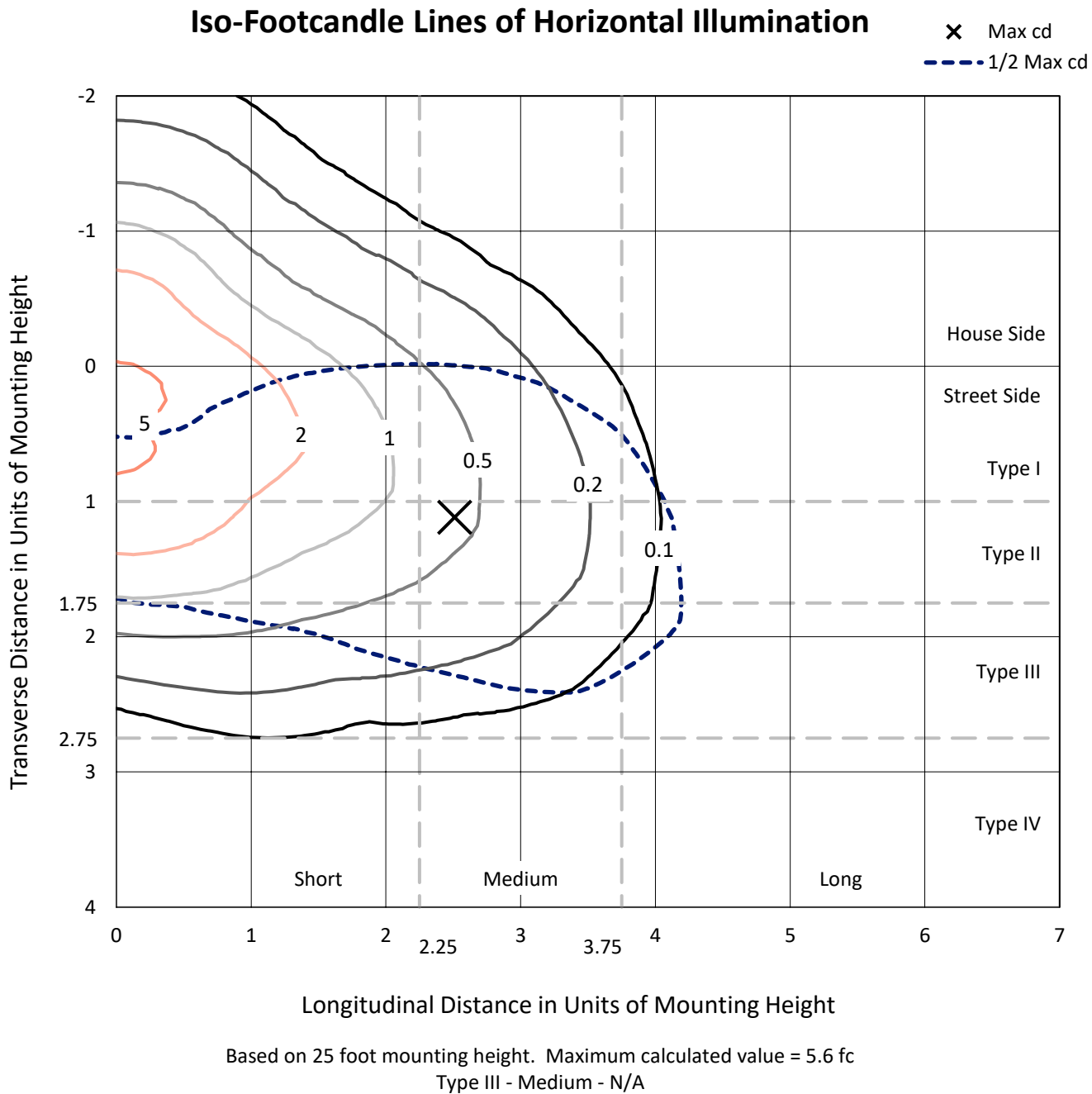
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17869 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
Input Voltage (V): NR
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: 24 FT

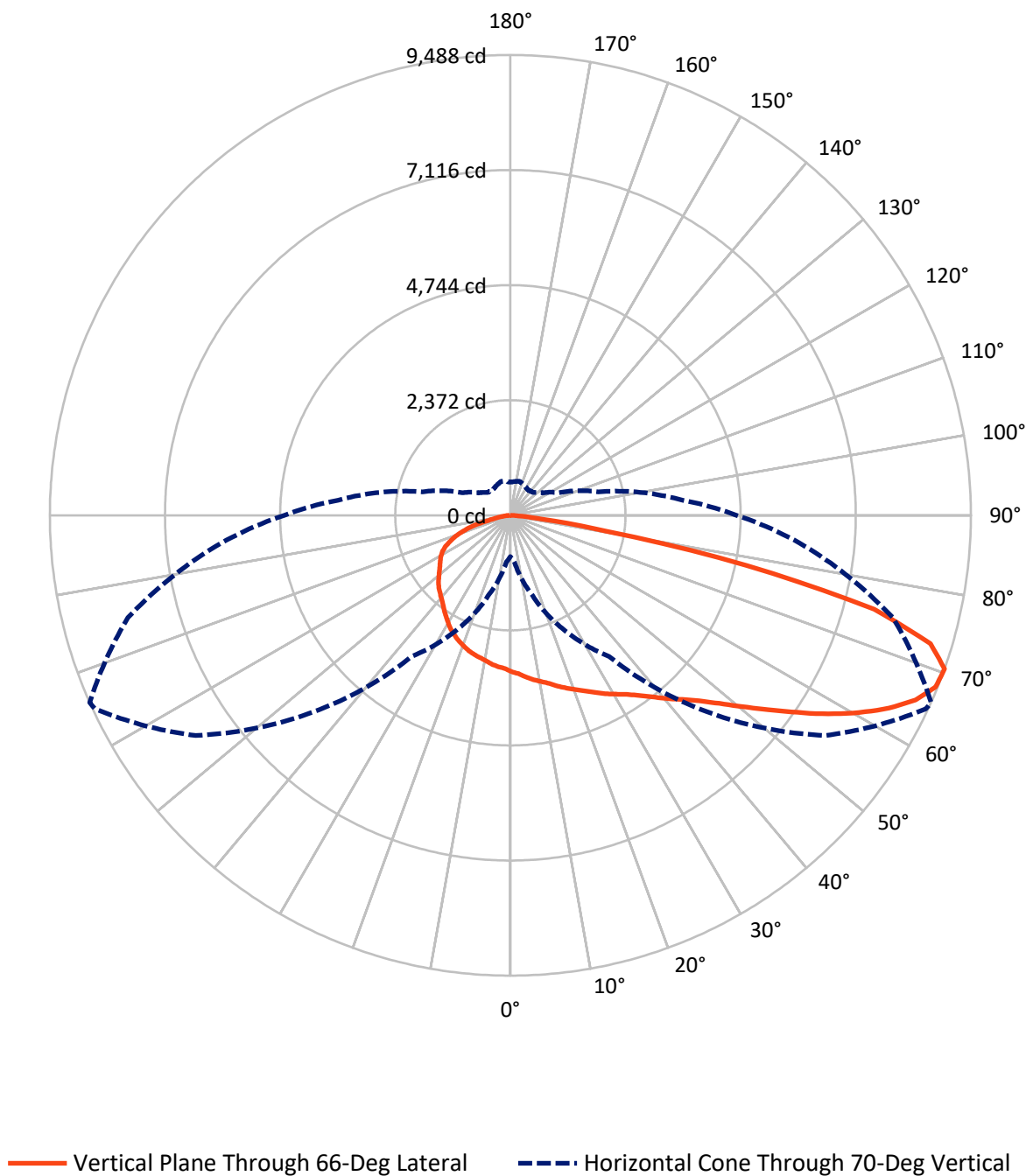


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Luminous Intensity Polar Plot



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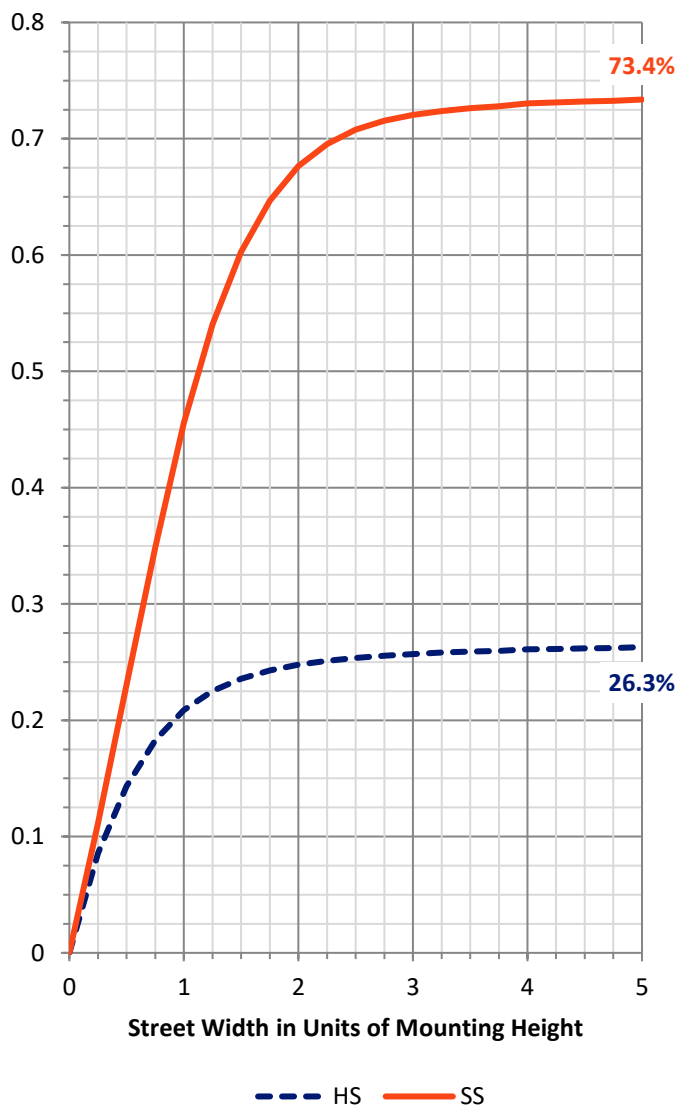
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4734.9	0.0	4734.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	13134.1	0.0	13134.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	17869.0	0.0	17869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	1.7
10°-20°	929.5	5.2
20°-30°	1558.2	8.7
30°-40°	2333.2	13.1
40°-50°	3119.4	17.5
50°-60°	3642.0	20.4
60°-70°	3621.5	20.3
70°-80°	2144.0	12.0
80°-90°	211.3	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°	17869.0	100.0
0°-180°	17869.0	100.0

Coefficient of Utilization



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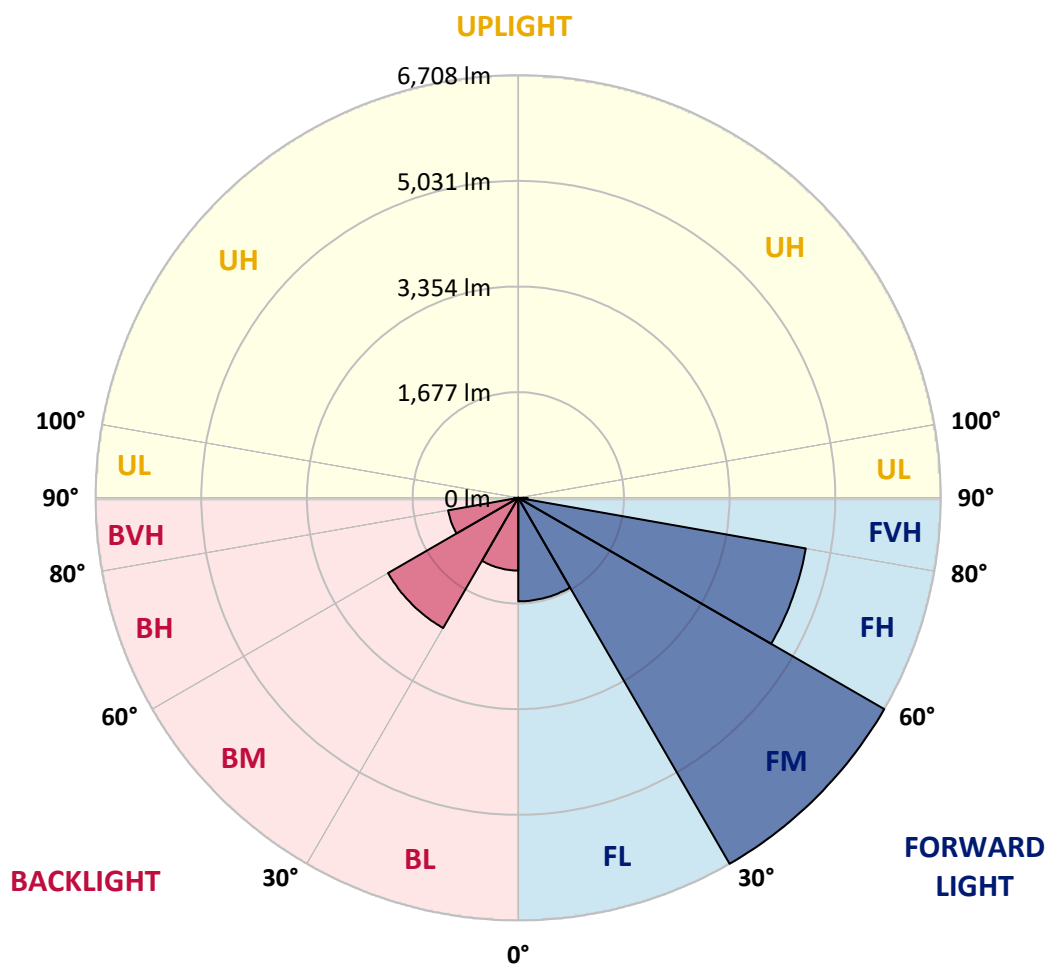
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.5	9.2			
FM	(30°-60°)	6707.8	37.5			
FH	(60°-80°)	4634.4	25.9			G2/5000
FVH	(80°-90°)	148.5	0.8			G2/225
BL	(0°-30°)	1154.2	6.5	B3/2500		
BM	(30°-60°)	2386.9	13.4	B2/2500		
BH	(60°-80°)	1131.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	62.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9
2.5°	3343.5	3338.2	3335.6	3325.1	3301.4	3311.9	3288.2	3272.4	3269.7	3232.9	3211.8
5°	3480.5	3477.9	3472.6	3456.8	3419.9	3425.2	3385.7	3356.7	3348.8	3290.8	3246.0
7.5°	3596.4	3591.2	3588.5	3567.5	3527.9	3525.3	3477.9	3435.7	3422.6	3343.5	3275.0
10°	3686.0	3678.1	3683.4	3662.3	3620.2	3612.3	3551.7	3496.3	3483.2	3383.0	3288.2
12.5°	3762.4	3757.2	3765.1	3746.6	3712.4	3704.5	3643.9	3572.7	3556.9	3441.0	3317.2
15°	3846.8	3828.3	3844.1	3836.2	3812.5	3809.9	3754.5	3675.5	3654.4	3514.8	3362.0
17.5°	3891.5	3881.0	3899.4	3902.1	3891.5	3910.0	3857.3	3762.4	3744.0	3583.3	3401.5
20°	3923.2	3907.4	3928.4	3944.2	3952.1	3989.0	3946.9	3854.7	3833.6	3649.1	3438.4
22.5°	4031.2	3996.9	3999.6	4010.1	4015.4	4068.1	4041.7	3952.1	3931.1	3730.8	3483.2
25°	4302.6	4234.1	4189.3	4157.7	4120.8	4165.6	4149.7	4062.8	4044.4	3828.3	3538.5
27.5°	4724.1	4637.2	4547.6	4455.4	4310.5	4292.0	4265.7	4186.6	4165.6	3925.8	3593.8
30°	5203.7	5116.7	5011.3	4863.8	4592.4	4450.1	4389.5	4302.6	4278.9	4012.7	3646.5
32.5°	5680.5	5604.1	5498.7	5319.6	4932.3	4642.4	4513.3	4423.8	4400.1	4107.6	3709.7
35°	6052.0	6004.6	5936.1	5712.2	5269.5	4869.0	4692.5	4584.5	4558.1	4257.8	3825.7
37.5°	6352.4	6318.2	6260.2	6025.7	5514.6	5095.6	4898.0	4774.2	4745.2	4421.1	3949.5
40°	6795.0	6705.5	6658.0	6318.2	5728.0	5301.1	5129.9	5000.8	4969.2	4595.0	4049.6
42.5°	7171.8	7106.0	7048.0	6579.0	5930.8	5477.7	5348.6	5230.0	5187.8	4766.3	4157.7
45°	7235.1	7261.4	7232.4	6708.1	6252.3	5651.6	5569.9	5493.5	5454.0	4998.1	4321.0
47.5°	7237.7	7237.7	7066.4	6781.9	6650.1	5846.5	5807.0	5833.4	5791.2	5293.2	4516.0
50°	7048.0	7082.2	6992.7	6800.3	6755.5	6041.5	6096.8	6239.1	6197.0	5606.8	4726.8
52.5°	6655.4	6768.7	6766.1	6771.3	6602.7	6207.5	6402.5	6726.5	6655.4	5959.8	4950.7
55°	5962.5	6189.1	6391.9	6565.8	6471.0	6307.6	6776.6	7245.6	7171.8	6355.0	5177.3
57.5°	5369.6	5514.6	5767.5	6260.2	6315.5	6394.6	7127.0	7788.4	7722.5	6792.4	5414.4
60°	4692.5	4892.8	5145.7	5846.5	6125.8	6507.9	7511.7	8317.9	8254.7	7235.1	5643.7
62.5°	3651.8	3910.0	4415.9	5211.6	5849.2	6579.0	7814.7	8784.3	8755.3	7654.0	5849.2
65°	2545.2	2774.4	3483.2	4431.7	5409.2	6547.4	8057.1	9200.6	9174.2	7996.5	5994.1
67.5°	1486.0	1752.1	2553.1	3567.5	4631.9	6328.7	8136.1	9445.6	9445.6	8204.6	6033.6
70°	848.4	972.2	1683.6	2600.5	3551.7	5725.3	7914.8	9443.0	9487.8	8157.2	5870.2
72.5°	592.8	648.2	1132.9	1749.5	2408.2	4631.9	7335.2	8987.2	9047.8	7709.3	5311.7
75°	461.1	500.6	798.3	1193.5	1517.6	3145.9	6067.9	7577.6	7738.3	6571.1	4294.7
77.5°	350.4	379.4	466.4	745.6	972.2	1807.4	4004.8	4969.2	4979.7	4023.3	2302.8
80°	255.6	284.6	310.9	455.8	516.4	845.8	1512.4	2076.2	2018.2	1947.1	1246.2
82.5°	152.8	181.8	189.7	247.7	252.9	361.0	529.6	669.2	642.9	856.3	584.9
85°	65.9	92.2	97.5	113.3	108.0	147.5	210.8	176.5	158.1	181.8	126.5
87.5°	15.8	26.3	26.3	29.0	23.7	36.9	39.5	29.0	26.3	31.6	31.6
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°	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9
2.5°	3206.5	3198.6	3201.2	3156.4	3143.3	3130.1	3122.2	3116.9	3111.7	3119.6	3127.5
5°	3230.2	3211.8	3190.7	3124.8	3098.5	3069.5	3048.4	3030.0	3022.1	3022.1	3030.0
7.5°	3248.7	3217.0	3172.3	3085.3	3037.9	2998.4	2964.1	2940.4	2927.2	2927.2	2935.1
10°	3251.3	3206.5	3135.4	3030.0	2966.7	2908.8	2869.3	2842.9	2824.5	2824.5	2829.7
12.5°	3267.1	3206.5	3114.3	2987.8	2908.8	2837.6	2790.2	2750.7	2742.8	2742.8	2748.1
15°	3293.5	3219.7	3101.1	2950.9	2856.1	2774.4	2721.7	2679.6	2663.7	2674.3	2676.9
17.5°	3317.2	3227.6	3077.4	2903.5	2790.2	2700.6	2642.7	2605.8	2584.7	2608.4	2608.4
20°	3333.0	3227.6	3043.1	2842.9	2719.1	2619.0	2563.6	2518.8	2503.0	2532.0	2534.6
22.5°	3356.7	3224.9	3006.3	2782.3	2642.7	2537.3	2481.9	2447.7	2439.8	2471.4	2481.9
25°	3383.0	3230.2	2966.7	2713.8	2558.4	2455.6	2413.4	2397.6	2402.9	2442.4	2455.6
27.5°	3412.0	3240.8	2927.2	2637.4	2466.1	2373.9	2350.2	2358.1	2379.2	2429.2	2445.1
30°	3438.4	3243.4	2871.9	2547.8	2360.7	2273.8	2284.3	2318.6	2350.2	2400.3	2418.7
32.5°	3472.6	3246.0	2813.9	2450.3	2247.5	2184.2	2231.6	2287.0	2318.6	2366.0	2387.1
35°	3556.9	3290.8	2769.1	2355.5	2142.1	2107.8	2186.9	2258.0	2276.4	2318.6	2337.0
37.5°	3654.4	3364.6	2745.4	2258.0	2039.3	2031.4	2131.5	2202.7	2207.9	2234.3	2252.7
40°	3715.0	3396.2	2719.1	2176.3	1947.1	1952.4	2055.1	2110.4	2099.9	2118.3	2131.5
42.5°	3775.6	3406.7	2663.7	2107.8	1860.1	1865.4	1944.5	1984.0	1989.2	2028.8	2047.2
45°	3878.4	3435.7	2603.1	2044.6	1781.1	1762.7	1810.1	1862.8	1931.3	2007.7	2028.8
47.5°	4015.4	3496.3	2539.9	1968.2	1704.7	1644.1	1662.5	1754.8	1825.9	1897.0	1910.2
50°	4155.0	3556.9	2481.9	1875.9	1628.3	1517.6	1525.5	1609.8	1667.8	1723.1	1731.0
52.5°	4292.0	3609.6	2431.9	1789.0	1541.3	1367.4	1399.1	1486.0	1525.5	1551.9	1559.8
55°	4429.0	3654.4	2387.1	1715.2	1441.2	1248.9	1277.9	1359.5	1399.1	1412.2	1417.5
57.5°	4571.3	3707.1	2352.8	1652.0	1327.9	1143.5	1161.9	1219.9	1256.8	1272.6	1267.3
60°	4689.9	3751.9	2334.4	1586.1	1214.6	1046.0	1040.7	1093.4	1146.1	1161.9	1156.7
62.5°	4782.1	3780.9	2305.4	1501.8	1114.5	948.5	922.2	990.7	1046.0	1056.5	1064.4
65°	4832.2	3783.5	2234.3	1393.8	1011.7	843.1	824.7	893.2	927.4	938.0	938.0
67.5°	4824.2	3741.4	2094.6	1248.9	916.9	748.3	732.5	774.6	824.7	832.6	824.7
70°	4660.9	3567.5	1870.7	1096.1	803.6	664.0	635.0	677.1	724.6	695.6	682.4
72.5°	4197.2	3116.9	1541.3	927.4	677.1	558.6	545.4	587.6	590.2	595.5	582.3
75°	3311.9	2321.2	1154.0	721.9	548.0	469.0	466.4	458.4	469.0	490.1	474.3
77.5°	1738.9	1159.3	624.4	442.6	397.8	376.8	358.3	355.7	387.3	400.5	384.7
80°	943.2	650.8	358.3	266.1	242.4	245.0	268.7	263.5	297.7	305.6	292.5
82.5°	411.0	308.3	176.5	160.7	160.7	158.1	166.0	184.4	221.3	221.3	176.5
85°	89.6	76.4	68.5	79.0	89.6	89.6	89.6	89.6	63.2	34.3	23.7
87.5°	29.0	29.0	29.0	31.6	34.3	34.3	29.0	21.1	13.2	2.6	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)