

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: P159586

Luminaire Tested: **VST-F08-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159586
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F08-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (56) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20725.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 204.4
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: 28.75 FT



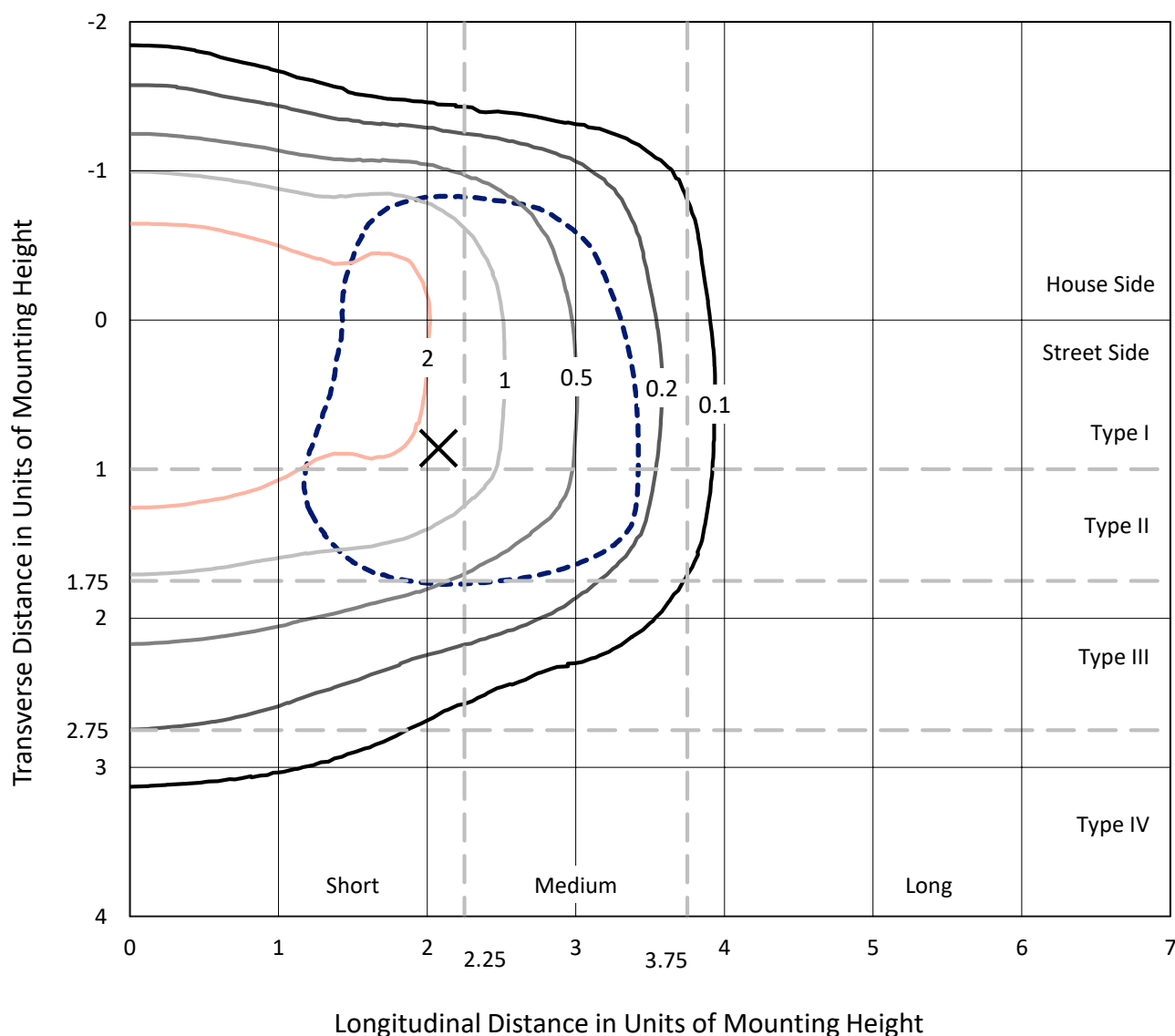
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

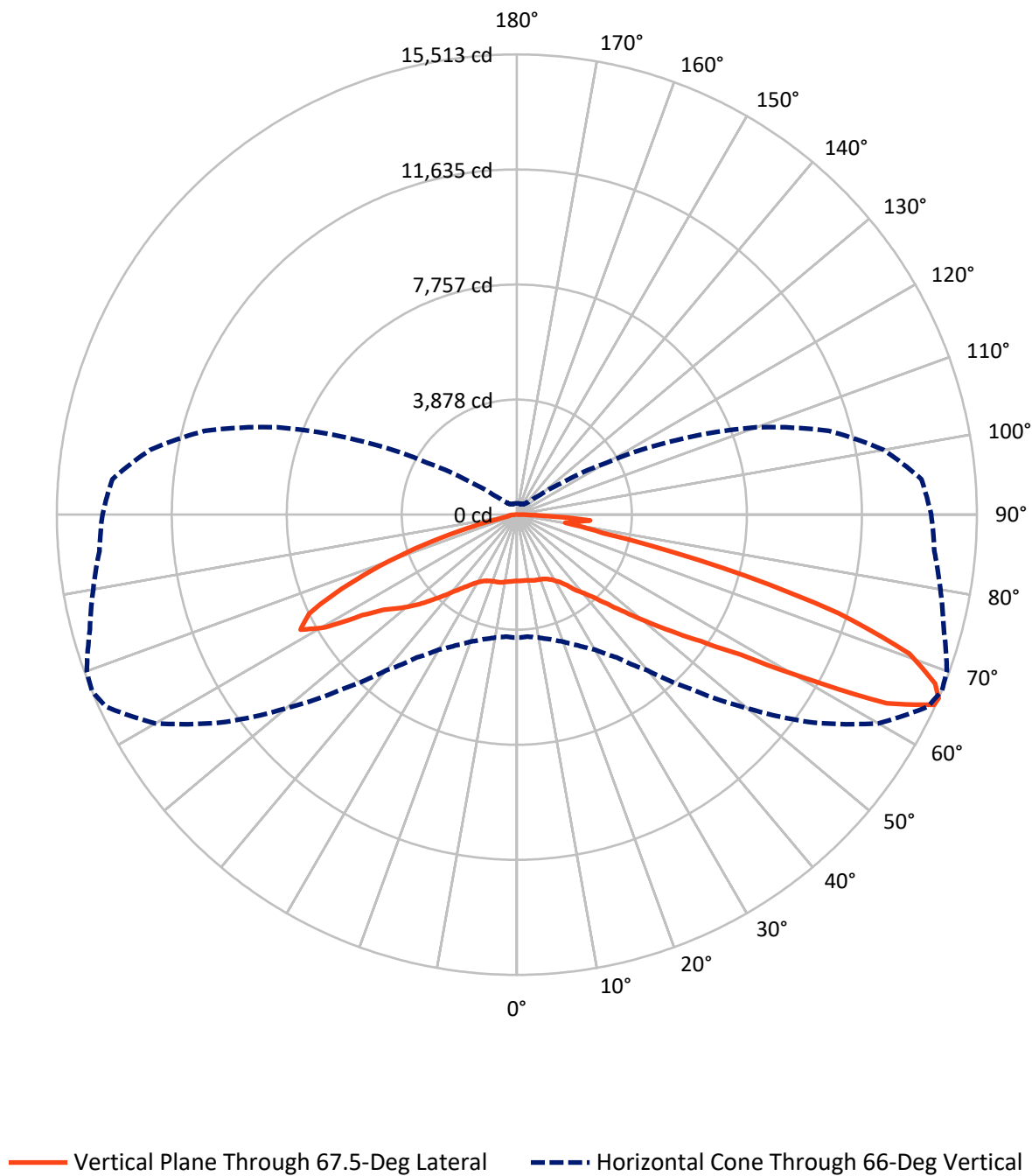


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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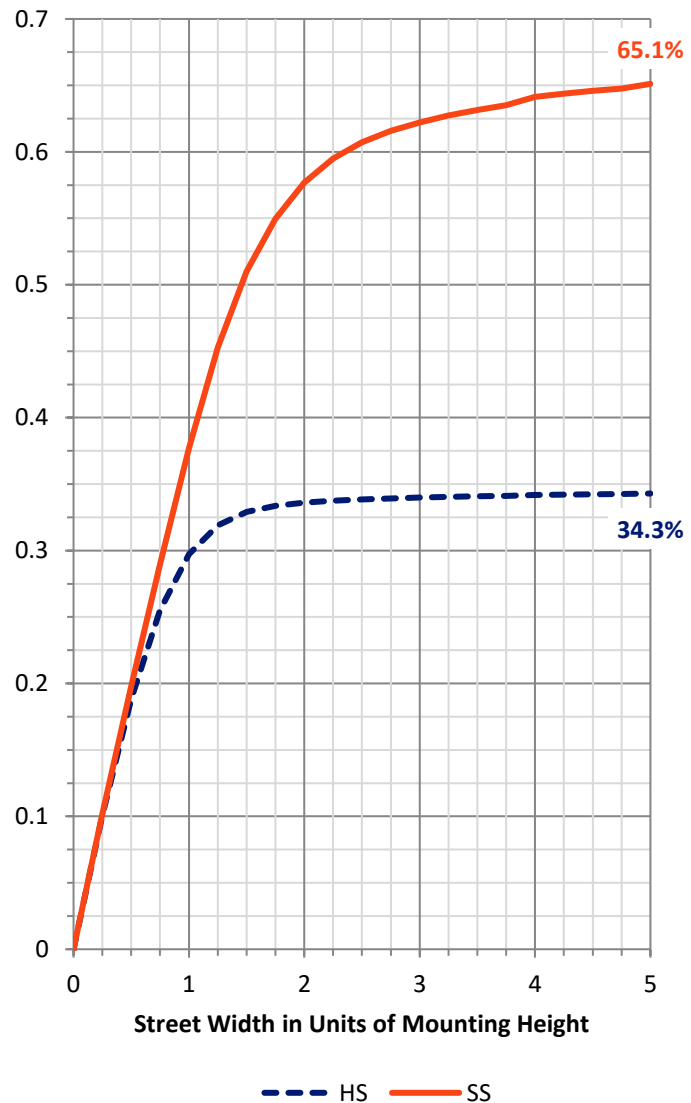
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7171.9	0.0	7171.9
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	13553.4	0.0	13553.4
	% Fixture	65.4	0.0	65.4
Total	Lumens	20725.3	0.0	20725.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	1.0
10°-20°	635.4	3.1
20°-30°	1092.3	5.3
30°-40°	1765.4	8.5
40°-50°	2925.7	14.1
50°-60°	4591.6	22.2
60°-70°	6277.6	30.3
70°-80°	2760.6	13.3
80°-90°	462.1	2.2
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°	20725.3	100.0
0°-180°	20725.3	100.0

Coefficient of Utilization



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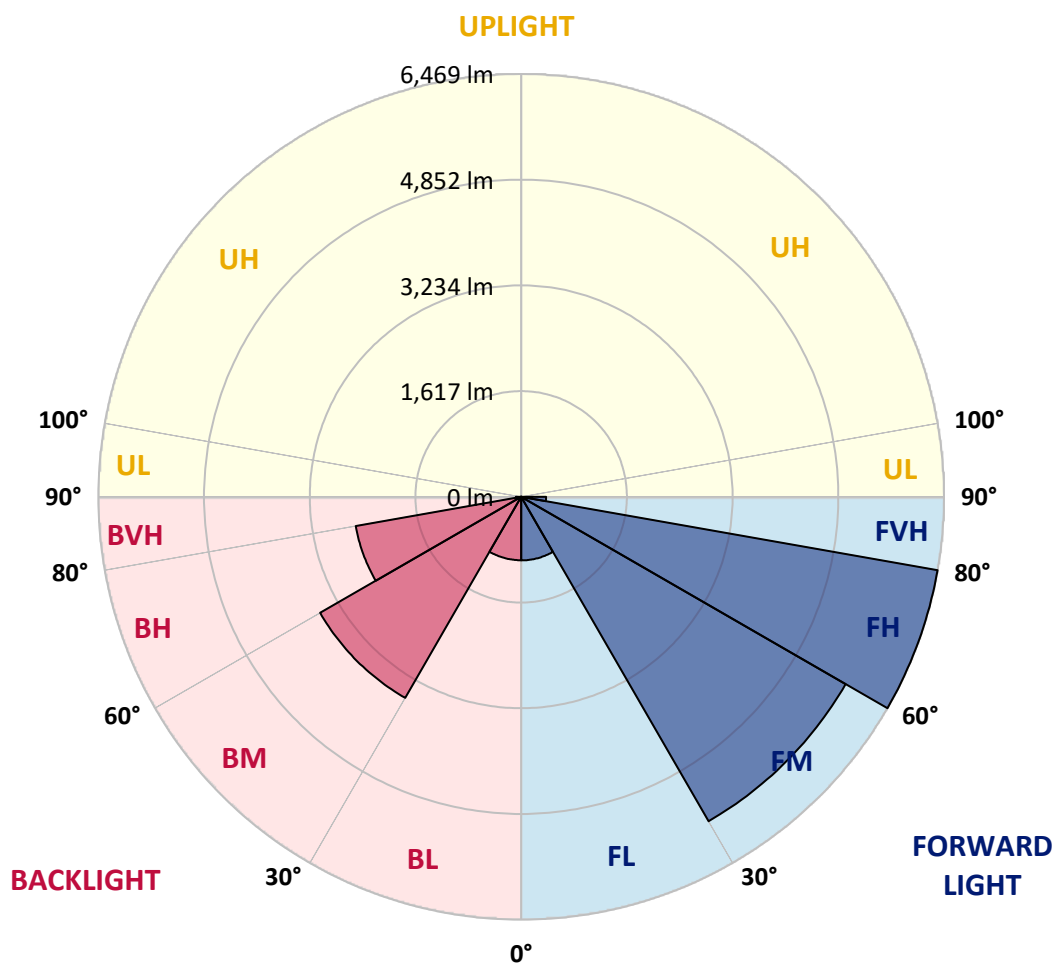
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.2	4.7			
FM	(30°-60°)	5731.2	27.7			
FH	(60°-80°)	6468.8	31.2			G3/7500
FVH	(80°-90°)	381.2	1.8			G3/500
BL	(0°-30°)	970.2	4.7	B2/1000		
BM	(30°-60°)	3551.5	17.1	B3/5000		
BH	(60°-80°)	2569.4	12.4	B4/5000		G4/5000
BVH	(80°-90°)	80.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3
2.5°	2232.2	2232.2	2233.6	2232.2	2232.2	2230.9	2236.3	2236.3	2236.3	2234.9	2239.0
5°	2226.8	2226.8	2228.1	2228.1	2229.5	2228.1	2232.2	2233.6	2233.6	2233.6	2237.6
7.5°	2213.2	2217.3	2214.6	2215.9	2217.3	2221.4	2226.8	2229.5	2232.2	2236.3	2237.6
10°	2184.8	2191.6	2190.2	2194.3	2195.6	2207.8	2211.9	2217.3	2226.8	2232.2	2236.3
12.5°	2145.5	2149.5	2150.9	2156.3	2161.7	2176.6	2187.5	2197.0	2210.5	2224.1	2237.6
15°	2114.3	2117.0	2117.0	2122.4	2130.6	2144.1	2157.7	2173.9	2194.3	2217.3	2239.0
17.5°	2123.8	2130.6	2125.1	2123.8	2126.5	2134.6	2146.8	2160.4	2184.8	2210.5	2236.3
20°	2186.1	2187.5	2184.8	2178.0	2172.6	2173.9	2173.9	2176.6	2191.6	2211.9	2232.2
22.5°	2237.6	2243.1	2241.7	2243.1	2241.7	2247.1	2244.4	2239.0	2233.6	2234.9	2244.4
25°	2282.4	2287.8	2287.8	2291.8	2298.6	2309.5	2317.6	2316.2	2308.1	2297.3	2293.2
27.5°	2355.5	2355.5	2355.5	2359.6	2369.1	2382.7	2396.2	2404.3	2411.1	2400.3	2377.2
30°	2470.8	2472.1	2468.0	2469.4	2476.2	2493.8	2510.1	2522.3	2535.8	2534.5	2504.6
32.5°	2596.8	2602.2	2600.9	2606.3	2615.8	2632.0	2649.7	2668.6	2686.2	2697.1	2678.1
35°	2759.4	2764.9	2766.2	2774.3	2785.2	2809.6	2834.0	2858.4	2877.3	2885.5	2881.4
37.5°	3026.4	3027.8	3022.4	3010.2	3014.2	3033.2	3061.7	3101.0	3113.2	3121.3	3140.3
40°	3426.3	3422.2	3400.5	3389.7	3382.9	3391.0	3385.6	3416.8	3445.2	3446.6	3445.2
42.5°	3911.5	3899.3	3878.9	3876.2	3873.5	3870.8	3855.9	3857.2	3883.0	3889.8	3881.6
45°	4394.0	4379.0	4364.1	4377.7	4361.4	4403.4	4415.6	4448.2	4452.2	4465.8	4445.5
47.5°	4789.7	4791.1	4791.1	4810.0	4842.6	4922.5	4994.4	5056.7	5079.7	5112.3	5116.3
50°	5089.2	5097.4	5123.1	5184.1	5253.2	5387.4	5508.0	5620.5	5722.2	5760.1	5860.4
52.5°	5264.1	5285.8	5340.0	5441.6	5564.9	5738.4	5928.2	6119.3	6295.5	6444.6	6563.8
55°	5232.9	5249.2	5344.0	5502.6	5695.1	5928.2	6193.8	6470.3	6745.4	6997.5	7192.7
57.5°	5032.3	5043.1	5138.0	5316.9	5556.8	5869.9	6245.3	6656.0	7042.2	7448.8	7782.3
60°	4769.4	4785.6	4873.7	5014.7	5265.4	5598.8	6033.9	6590.9	7207.6	7847.3	8470.8
62.5°	4601.3	4597.2	4674.5	4800.5	4988.9	5291.2	5710.0	6370.0	7223.9	8305.4	9537.4
65°	4322.1	4309.9	4389.9	4533.5	4738.2	5031.0	5428.1	6062.4	7053.1	8478.9	10225.9
66°	4148.6	4124.2	4204.2	4349.2	4553.9	4865.6	5246.4	5872.6	6845.7	8309.5	10152.7
67.5°	3845.0	3832.8	3870.8	3984.6	4136.4	4429.2	4826.3	5456.5	6355.1	7799.9	9616.0
70°	3125.4	3098.3	3128.1	3179.6	3237.9	3309.7	3553.7	4053.8	4814.1	6214.1	7747.0
72.5°	2129.2	2115.7	2171.2	2249.8	2405.7	2478.9	2575.1	2656.4	2924.8	3916.9	5403.7
75°	1619.6	1627.7	1698.2	1828.3	2028.9	2245.8	2457.2	2534.5	2445.0	2367.7	3067.1
77.5°	908.1	955.5	1040.9	1206.2	1419.0	1725.3	2094.0	2500.6	2703.9	2653.7	2481.6
80°	374.1	367.3	409.3	500.1	573.3	824.0	1260.4	1770.0	2342.0	2703.9	2646.9
82.5°	104.4	107.1	138.2	177.5	229.0	291.4	455.4	731.9	1192.7	1855.4	2428.7
85°	32.5	32.5	44.7	66.4	78.6	90.8	115.2	189.7	323.9	646.5	1310.6
87.5°	6.8	6.8	9.5	19.0	20.3	20.3	25.8	35.2	31.2	28.5	127.4
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3
2.5°	2234.9	2232.2	2233.6	2234.9	2233.6	2233.6	2232.2	2230.9	2232.2	2232.2	2236.3
5°	2233.6	2232.2	2233.6	2233.6	2233.6	2234.9	2234.9	2234.9	2239.0	2239.0	2245.8
7.5°	2236.3	2236.3	2239.0	2239.0	2239.0	2239.0	2240.3	2243.1	2249.8	2248.5	2260.7
10°	2241.7	2244.4	2251.2	2252.5	2252.5	2256.6	2259.3	2264.7	2271.5	2274.2	2285.1
12.5°	2248.5	2262.0	2274.2	2276.9	2281.0	2287.8	2291.8	2294.6	2306.8	2310.8	2324.4
15°	2256.6	2275.6	2290.5	2295.9	2301.3	2309.5	2314.9	2319.0	2329.8	2335.2	2351.5
17.5°	2258.0	2279.6	2297.3	2305.4	2312.2	2321.7	2329.8	2337.9	2350.1	2358.3	2374.5
20°	2256.6	2285.1	2312.2	2323.0	2329.8	2347.4	2359.6	2370.5	2385.4	2393.5	2409.8
22.5°	2271.5	2304.0	2340.6	2354.2	2365.0	2389.4	2405.7	2423.3	2442.3	2447.7	2459.9
25°	2306.8	2340.6	2386.7	2405.7	2424.7	2457.2	2480.2	2506.0	2525.0	2527.7	2531.7
27.5°	2366.4	2397.6	2453.1	2481.6	2512.8	2558.8	2592.7	2618.5	2645.6	2645.6	2642.9
30°	2487.0	2493.8	2552.1	2588.7	2634.7	2702.5	2752.7	2781.1	2801.4	2801.4	2778.4
32.5°	2642.9	2634.7	2687.6	2726.9	2790.6	2885.5	2953.2	2974.9	2996.6	2989.8	2950.5
35°	2867.9	2844.8	2874.6	2934.3	3006.1	3136.2	3206.7	3255.5	3269.0	3250.1	3187.7
37.5°	3151.1	3148.4	3163.3	3229.7	3309.7	3477.8	3549.6	3580.8	3569.9	3536.0	3426.3
40°	3450.6	3442.5	3433.0	3477.8	3567.2	3769.1	3896.5	3912.8	3897.9	3847.8	3709.5
42.5°	3850.5	3850.5	3805.7	3817.9	3892.5	4118.8	4269.3	4320.8	4322.1	4248.9	4064.6
45°	4400.7	4395.3	4316.7	4297.7	4354.6	4576.9	4770.7	4799.2	4799.2	4703.0	4501.0
47.5°	5062.1	5055.3	4978.1	4911.7	4922.5	5162.4	5323.7	5367.1	5329.1	5257.3	5017.4
50°	5807.6	5795.4	5716.7	5654.4	5627.3	5869.9	6006.8	6027.1	5971.5	5886.2	5625.9
52.5°	6563.8	6600.4	6554.3	6520.4	6529.9	6687.2	6828.1	6731.9	6703.4	6611.3	6349.7
55°	7351.3	7463.8	7565.4	7535.6	7570.8	7724.0	7751.1	7623.7	7572.2	7505.8	7214.4
57.5°	8144.1	8472.1	8805.5	8899.0	8985.8	9205.3	9174.2	8965.4	9004.8	9103.7	8775.7
60°	9251.4	10198.8	11044.5	11200.4	11470.1	11657.1	11699.1	11658.5	11841.4	11789.9	11499.9
62.5°	10952.3	12531.3	13707.7	14000.5	14271.5	14262.0	14119.7	13973.4	14153.6	14153.6	13396.0
65°	12166.7	13958.5	15217.5	15460.1	15449.3	15122.7	14786.6	14493.8	14468.1	14267.5	13160.2
66°	12223.6	14068.2	15301.6	15513.0	15431.7	14905.8	14503.3	14131.9	13973.4	13694.2	12559.8
67.5°	11711.3	13757.9	15027.8	15212.1	14998.0	14244.4	13690.1	13192.7	12962.3	12492.0	11424.0
70°	9606.5	11823.8	13671.1	14047.9	13805.3	12851.2	12092.2	11419.9	10979.5	10300.4	9530.6
72.5°	7012.4	8729.6	10730.1	11342.7	11304.7	10426.5	9815.2	9199.9	8621.2	8003.2	7440.7
75°	4557.9	5678.8	6794.2	7152.0	6979.9	6471.7	6033.9	5674.7	5125.8	4696.2	4591.8
77.5°	2602.2	3179.6	3007.5	2962.7	2747.2	2217.3	1474.6	1034.1	933.8	1165.6	1278.1
80°	2476.2	2244.4	1837.8	1657.6	1523.4	1038.2	544.8	383.6	336.1	344.3	370.0
82.5°	2792.0	2909.9	2379.9	1988.3	1730.7	1263.2	689.9	321.2	234.5	277.8	311.7
85°	2092.6	2946.5	2920.7	2474.8	2030.3	1455.6	815.9	245.3	141.0	195.2	254.8
87.5°	424.2	698.0	672.2	590.9	502.8	351.0	136.9	77.3	70.5	96.2	146.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3	2236.3
2.5°	2239.0	2239.0	2241.7	2245.8	2247.1	2247.1	2249.8	2247.1	2252.5	2253.9	2255.3
5°	2251.2	2255.3	2258.0	2264.7	2268.8	2271.5	2275.6	2272.9	2278.3	2279.6	2282.4
7.5°	2264.7	2271.5	2276.9	2279.6	2285.1	2285.1	2286.4	2283.7	2282.4	2278.3	2276.9
10°	2289.1	2293.2	2300.0	2297.3	2294.6	2285.1	2276.9	2264.7	2258.0	2245.8	2239.0
12.5°	2328.4	2331.2	2331.2	2319.0	2301.3	2279.6	2259.3	2239.0	2222.7	2209.2	2201.0
15°	2355.5	2361.0	2354.2	2336.6	2310.8	2281.0	2253.9	2226.8	2205.1	2187.5	2176.6
17.5°	2375.9	2374.5	2362.3	2337.9	2313.5	2287.8	2263.4	2234.9	2207.8	2182.1	2165.8
20°	2407.1	2393.5	2371.8	2346.1	2320.3	2298.6	2279.6	2252.5	2224.1	2188.8	2164.4
22.5°	2449.1	2424.7	2393.5	2366.4	2342.0	2321.7	2300.0	2276.9	2247.1	2207.8	2173.9
25°	2508.7	2466.7	2431.4	2404.3	2382.7	2359.6	2335.2	2305.4	2275.6	2234.9	2194.3
27.5°	2599.5	2537.2	2492.4	2468.0	2447.7	2416.5	2385.4	2350.1	2312.2	2270.2	2224.1
30°	2709.3	2634.7	2583.2	2561.6	2537.2	2501.9	2468.0	2419.2	2366.4	2316.2	2259.3
32.5°	2838.0	2762.1	2710.6	2694.4	2655.1	2614.4	2567.0	2501.9	2432.8	2358.3	2290.5
35°	3033.2	2937.0	2889.5	2851.6	2797.4	2748.6	2668.6	2583.2	2484.3	2385.4	2301.3
37.5°	3233.8	3136.2	3087.4	3034.6	2964.1	2874.6	2767.6	2645.6	2514.1	2392.1	2289.1
40°	3502.1	3396.4	3334.1	3252.8	3138.9	2999.3	2840.8	2674.0	2514.1	2362.3	2237.6
42.5°	3815.2	3717.6	3621.4	3487.2	3304.3	3101.0	2878.7	2664.6	2470.8	2295.9	2164.4
45°	4248.9	4082.2	3929.1	3713.6	3446.6	3160.6	2882.8	2619.8	2396.2	2202.4	2056.0
47.5°	4736.8	4521.4	4250.3	3912.8	3548.2	3183.6	2843.5	2535.8	2278.3	2068.2	1908.3
50°	5299.3	4968.6	4552.5	4071.4	3599.7	3152.5	2749.9	2394.9	2115.7	1874.4	1703.6
52.5°	5943.1	5438.9	4826.3	4183.9	3591.6	3057.6	2595.4	2209.2	1897.4	1641.3	1473.2
55°	6657.3	5951.2	5087.9	4255.7	3518.4	2873.3	2352.8	1947.6	1626.4	1374.3	1226.6
57.5°	7916.4	6849.8	5586.6	4351.9	3365.3	2594.1	2045.2	1616.9	1326.9	1112.7	971.8
60°	10255.7	8420.6	6531.3	4578.3	3134.9	2244.4	1657.6	1268.6	1026.0	870.1	765.8
62.5°	11703.2	9526.6	6992.1	4545.7	2760.8	1766.0	1230.6	940.6	749.5	646.5	581.4
65°	11360.3	9092.8	6429.6	3904.7	2148.2	1252.3	814.5	615.3	515.0	462.2	431.0
66°	10894.1	8607.6	5953.9	3496.7	1871.7	1046.3	672.2	516.4	443.2	403.9	387.6
67.5°	9916.9	7721.3	5135.3	2800.1	1402.8	779.3	496.0	405.2	360.5	340.2	329.3
70°	8300.0	6220.9	3632.3	1653.5	760.3	422.9	317.1	281.9	271.1	264.3	260.2
72.5°	6417.4	4503.7	2122.4	813.2	383.6	273.8	241.2	226.3	222.3	222.3	223.6
75°	4042.9	2588.7	950.1	391.7	260.2	220.9	206.0	199.2	200.6	201.9	200.6
77.5°	1343.1	893.2	395.8	277.8	226.3	200.6	188.4	185.7	188.4	189.7	189.7
80°	386.3	337.5	286.0	245.3	207.4	187.0	176.2	174.8	181.6	183.0	180.3
82.5°	296.8	277.8	258.9	237.2	199.2	176.2	172.1	173.5	177.5	174.8	162.6
85°	272.4	269.7	193.8	192.5	173.5	168.1	164.0	165.3	161.3	146.4	132.8
87.5°	153.2	142.3	109.8	111.1	128.8	132.8	109.8	116.6	108.4	94.9	86.7
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):

	160°	165°	170°	175°	180°
0°	2236.3	2236.3	2236.3	2236.3	2236.3
2.5°	2258.0	2256.6	2256.6	2260.7	2255.3
5°	2283.7	2282.4	2282.4	2286.4	2282.4
7.5°	2271.5	2267.5	2264.7	2263.4	2263.4
10°	2230.9	2226.8	2218.7	2215.9	2213.2
12.5°	2188.8	2184.8	2175.3	2175.3	2172.6
15°	2163.1	2157.7	2150.9	2146.8	2144.1
17.5°	2149.5	2141.4	2133.3	2129.2	2126.5
20°	2144.1	2133.3	2123.8	2117.0	2117.0
22.5°	2145.5	2131.9	2121.1	2112.9	2110.2
25°	2159.0	2138.7	2125.1	2117.0	2114.3
27.5°	2178.0	2153.6	2136.0	2125.1	2121.1
30°	2203.8	2169.9	2145.5	2131.9	2126.5
32.5°	2221.4	2173.9	2142.8	2123.8	2117.0
35°	2220.0	2159.0	2121.1	2096.7	2088.5
37.5°	2195.6	2123.8	2073.6	2043.8	2030.3
40°	2141.4	2058.7	2005.9	1977.4	1961.1
42.5°	2062.8	1973.3	1925.9	1894.7	1877.1
45°	1939.5	1851.4	1793.1	1768.7	1745.7
47.5°	1768.7	1679.2	1629.1	1593.9	1578.9
50°	1568.1	1478.7	1425.8	1397.3	1383.8
52.5°	1348.5	1263.2	1225.2	1198.1	1179.1
55°	1120.9	1042.2	1026.0	996.2	978.5
57.5°	906.7	860.6	845.7	815.9	801.0
60°	708.8	693.9	677.7	658.7	650.6
62.5°	548.9	535.4	531.3	519.1	517.7
65°	418.8	420.1	417.4	414.7	412.0
66°	380.8	379.5	380.8	378.1	376.8
67.5°	323.9	329.3	333.4	332.1	332.1
70°	262.9	267.0	272.4	271.1	271.1
72.5°	225.0	231.8	234.5	233.1	233.1
75°	203.3	210.1	210.1	207.4	206.0
77.5°	189.7	192.5	189.7	187.0	184.3
80°	176.2	173.5	169.4	165.3	162.6
82.5°	153.2	146.4	142.3	135.5	135.5
85°	123.3	117.9	108.4	101.6	94.9
87.5°	80.0	77.3	70.5	52.9	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)