

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: P159578

Luminaire Tested: **VST-E08-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159578
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-E08-LED-E-U-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20649.8 lumens
Efficiency: N/A
Efficacy: 106.2 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): 194.5
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



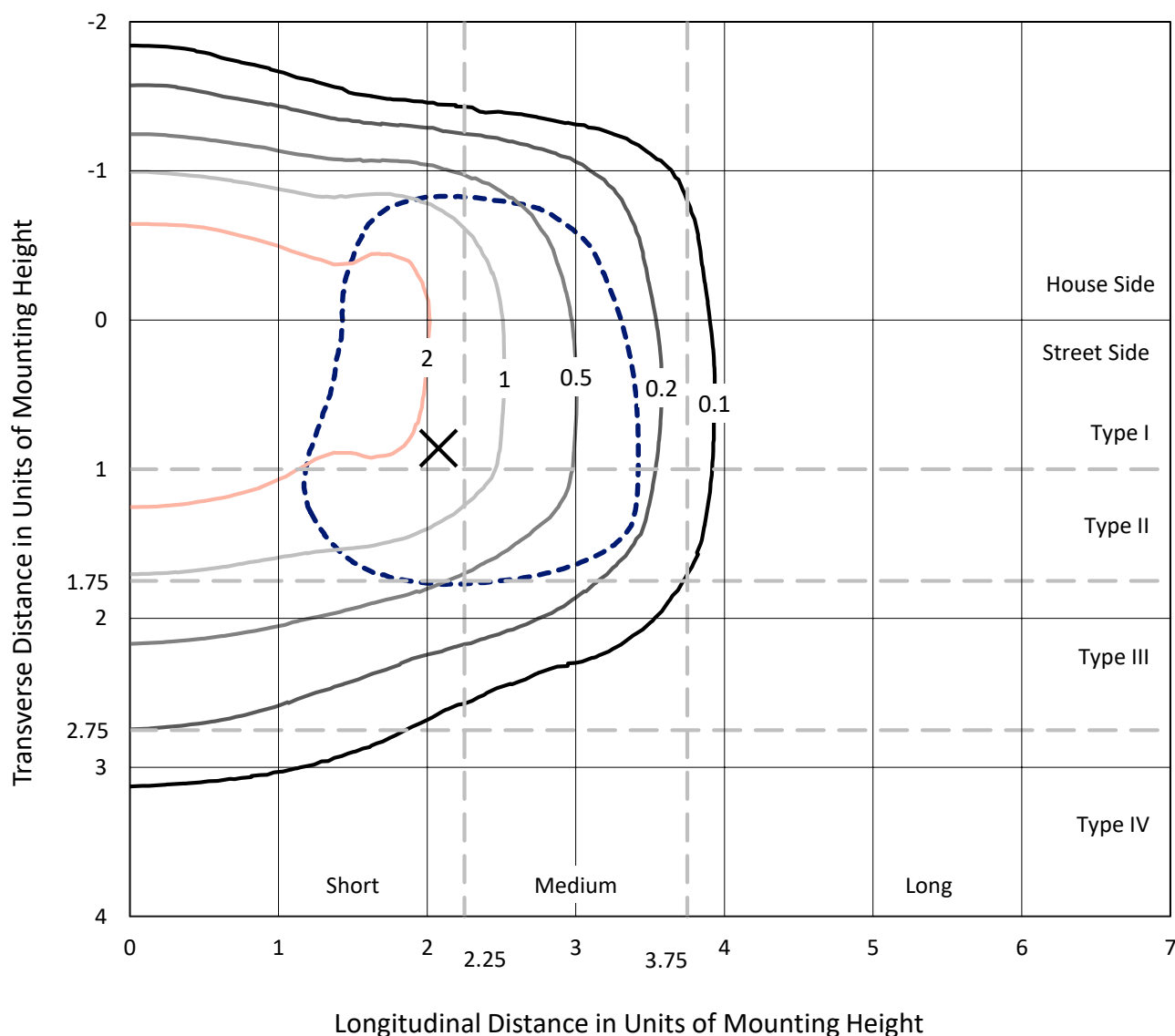
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

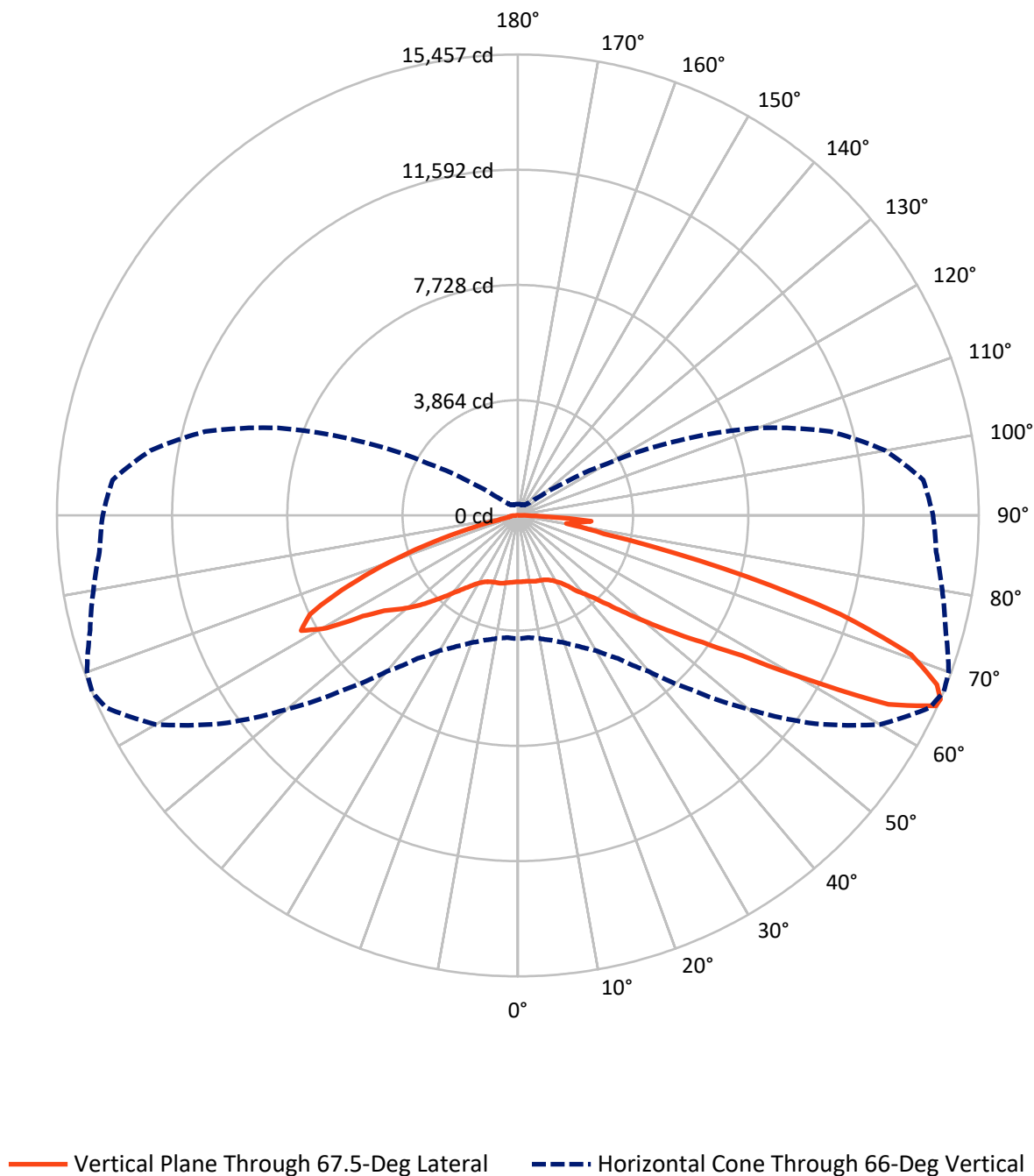


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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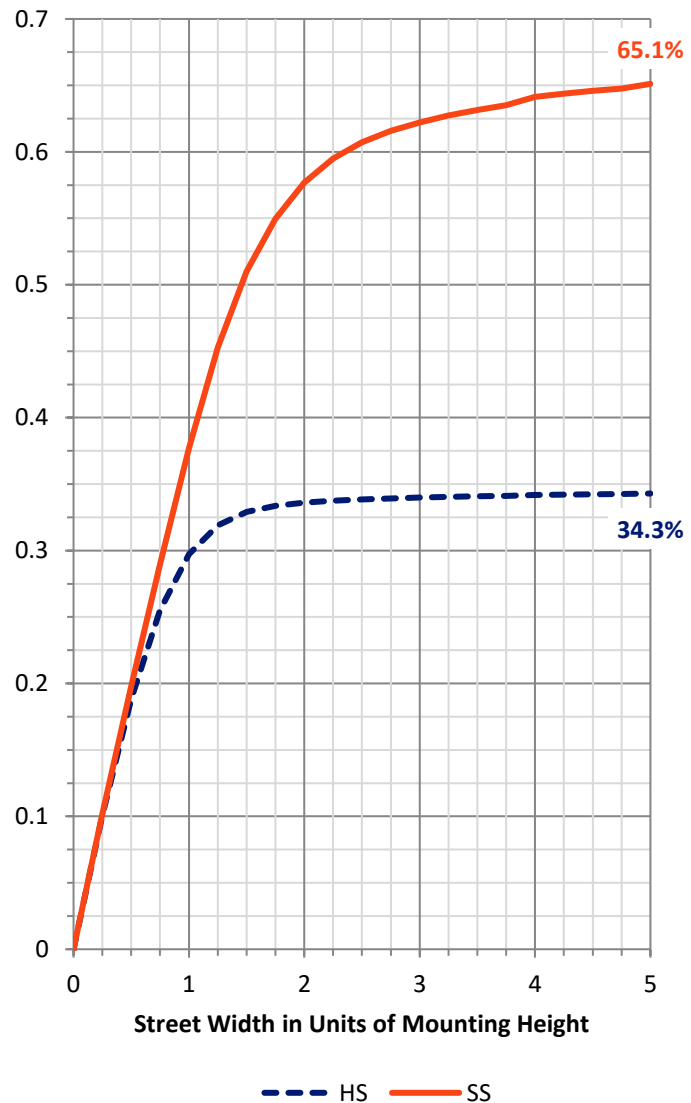
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7145.8	0.0	7145.8
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	13504.1	0.0	13504.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	20649.8	0.0	20649.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	1.0
10°-20°	633.1	3.1
20°-30°	1088.4	5.3
30°-40°	1759.0	8.5
40°-50°	2915.0	14.1
50°-60°	4574.9	22.2
60°-70°	6254.7	30.3
70°-80°	2750.5	13.3
80°-90°	460.4	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°	20649.8	100.0
0°-180°	20649.8	100.0

Coefficient of Utilization



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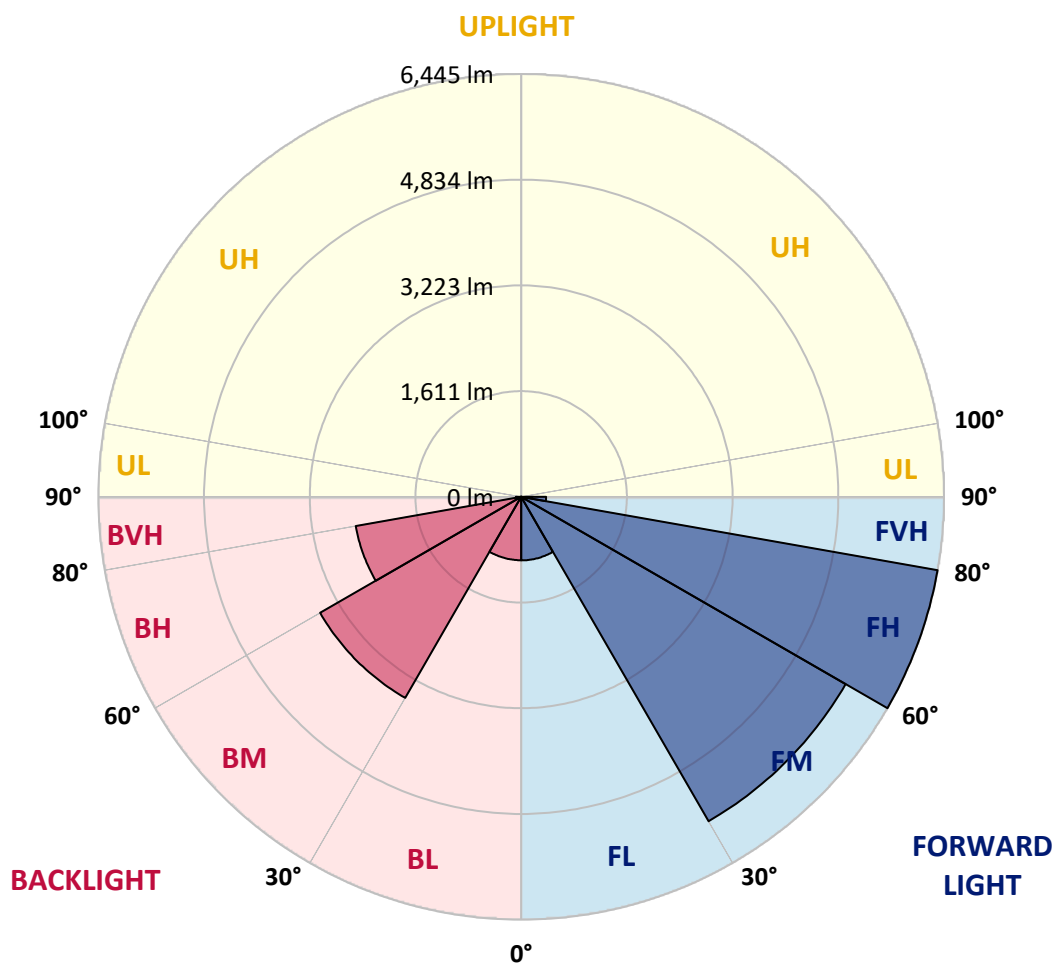
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.7	4.7			
FM	(30°-60°)	5710.3	27.7			
FH	(60°-80°)	6445.3	31.2			G3/7500
FVH	(80°-90°)	379.8	1.8			G3/500
BL	(0°-30°)	966.6	4.7	B2/1000		
BM	(30°-60°)	3538.6	17.1	B3/5000		
BH	(60°-80°)	2560.0	12.4	B4/5000		G4/5000
BVH	(80°-90°)	80.5	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°	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1
2.5°	2224.1	2224.1	2225.4	2224.1	2224.1	2222.7	2228.1	2228.1	2228.1	2226.8	2230.8
5°	2218.7	2218.7	2220.0	2220.0	2221.4	2220.0	2224.1	2225.4	2225.4	2225.4	2229.5
7.5°	2205.2	2209.2	2206.5	2207.9	2209.2	2213.3	2218.7	2221.4	2224.1	2228.1	2229.5
10°	2176.8	2183.6	2182.2	2186.3	2187.6	2199.8	2203.8	2209.2	2218.7	2224.1	2228.1
12.5°	2137.7	2141.7	2143.1	2148.5	2153.9	2168.7	2179.5	2189.0	2202.5	2216.0	2229.5
15°	2106.6	2109.3	2109.3	2114.7	2122.8	2136.3	2149.8	2166.0	2186.3	2209.2	2230.8
17.5°	2116.1	2122.8	2117.4	2116.1	2118.8	2126.9	2139.0	2152.5	2176.8	2202.5	2228.1
20°	2178.2	2179.5	2176.8	2170.1	2164.7	2166.0	2166.0	2168.7	2183.6	2203.8	2224.1
22.5°	2229.5	2234.9	2233.5	2234.9	2233.5	2238.9	2236.2	2230.8	2225.4	2226.8	2236.2
25°	2274.0	2279.5	2279.5	2283.5	2290.3	2301.1	2309.2	2307.8	2299.7	2288.9	2284.9
27.5°	2347.0	2347.0	2347.0	2351.0	2360.5	2374.0	2387.5	2395.6	2402.3	2391.5	2368.6
30°	2461.8	2463.1	2459.1	2460.4	2467.2	2484.7	2500.9	2513.1	2526.6	2525.2	2495.5
32.5°	2587.3	2592.7	2591.4	2596.8	2606.2	2622.4	2640.0	2658.9	2676.5	2687.3	2668.4
35°	2749.4	2754.8	2756.1	2764.2	2775.0	2799.3	2823.7	2848.0	2866.9	2875.0	2870.9
37.5°	3015.4	3016.8	3011.4	2999.2	3003.3	3022.2	3050.5	3089.7	3101.8	3109.9	3128.8
40°	3413.8	3409.7	3388.1	3377.3	3370.6	3378.7	3373.3	3404.3	3432.7	3434.0	3432.7
42.5°	3897.2	3885.1	3864.8	3862.1	3859.4	3856.7	3841.8	3843.2	3868.9	3875.6	3867.5
45°	4377.9	4363.1	4348.2	4361.7	4345.5	4387.4	4399.6	4432.0	4436.0	4449.5	4429.3
47.5°	4772.3	4773.6	4773.6	4792.5	4824.9	4904.6	4976.2	5038.3	5061.2	5093.7	5097.7
50°	5070.7	5078.8	5104.5	5165.2	5234.1	5367.8	5488.0	5600.0	5701.3	5739.1	5839.1
52.5°	5244.9	5266.5	5320.5	5421.8	5544.7	5717.5	5906.6	6097.0	6272.5	6421.1	6539.9
55°	5213.8	5230.0	5324.6	5482.6	5674.3	5906.6	6171.3	6446.7	6720.9	6972.0	7166.5
57.5°	5014.0	5024.8	5119.3	5297.6	5536.6	5848.5	6222.6	6631.7	7016.6	7421.7	7753.9
60°	4752.0	4768.2	4856.0	4996.4	5246.2	5578.4	6011.9	6566.9	7181.4	7818.7	8439.9
62.5°	4584.6	4580.5	4657.5	4783.1	4970.8	5271.9	5689.2	6346.8	7197.6	8275.2	9502.7
65°	4306.4	4294.2	4373.9	4517.0	4720.9	5012.6	5408.3	6040.3	7027.4	8448.0	10188.7
66°	4133.5	4109.2	4188.9	4333.4	4537.3	4847.9	5227.3	5851.2	6820.8	8279.2	10115.7
67.5°	3831.0	3818.9	3856.7	3970.1	4121.4	4413.1	4808.7	5436.7	6332.0	7771.5	9581.0
70°	3114.0	3087.0	3116.7	3168.0	3226.1	3297.6	3540.7	4039.0	4796.6	6191.5	7718.8
72.5°	2121.5	2108.0	2163.3	2241.6	2396.9	2469.9	2565.7	2646.8	2914.1	3902.6	5384.0
75°	1613.7	1621.8	1692.0	1821.7	2021.5	2237.6	2448.2	2525.2	2436.1	2359.1	3055.9
77.5°	904.8	952.0	1037.1	1201.8	1413.9	1719.0	2086.3	2491.5	2694.0	2644.1	2472.6
80°	372.7	366.0	407.8	498.3	571.2	821.0	1255.9	1763.6	2333.5	2694.0	2637.3
82.5°	104.0	106.7	137.7	176.9	228.2	290.3	453.7	729.2	1188.3	1848.7	2419.9
85°	32.4	32.4	44.6	66.2	78.3	90.5	114.8	189.1	322.7	644.1	1305.8
87.5°	6.8	6.8	9.5	18.9	20.3	20.3	25.7	35.1	31.1	28.4	126.9
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°	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1
2.5°	2226.8	2224.1	2225.4	2226.8	2225.4	2225.4	2224.1	2222.7	2224.1	2224.1	2228.1
5°	2225.4	2224.1	2225.4	2225.4	2225.4	2226.8	2226.8	2226.8	2230.8	2230.8	2237.6
7.5°	2228.1	2228.1	2230.8	2230.8	2230.8	2230.8	2232.2	2234.9	2241.6	2240.3	2252.4
10°	2233.5	2236.2	2243.0	2244.3	2244.3	2248.4	2251.1	2256.5	2263.2	2265.9	2276.7
12.5°	2240.3	2253.8	2265.9	2268.6	2272.7	2279.5	2283.5	2286.2	2298.4	2302.4	2315.9
15°	2248.4	2267.3	2282.2	2287.6	2293.0	2301.1	2306.5	2310.5	2321.3	2326.7	2342.9
17.5°	2249.7	2271.3	2288.9	2297.0	2303.8	2313.2	2321.3	2329.4	2341.6	2349.7	2365.9
20°	2248.4	2276.7	2303.8	2314.6	2321.3	2338.9	2351.0	2361.8	2376.7	2384.8	2401.0
22.5°	2263.2	2295.7	2332.1	2345.6	2356.4	2380.7	2396.9	2414.5	2433.4	2438.8	2450.9
25°	2298.4	2332.1	2378.0	2396.9	2415.8	2448.2	2471.2	2496.9	2515.8	2518.5	2522.5
27.5°	2357.8	2388.8	2444.2	2472.6	2503.6	2549.5	2583.3	2608.9	2636.0	2636.0	2633.3
30°	2478.0	2484.7	2542.8	2579.2	2625.1	2692.7	2742.6	2771.0	2791.2	2791.2	2768.3
32.5°	2633.3	2625.1	2677.8	2717.0	2780.4	2875.0	2942.5	2964.1	2985.7	2979.0	2939.8
35°	2857.4	2834.5	2864.2	2923.6	2995.2	3124.8	3195.0	3243.6	3257.1	3238.2	3176.1
37.5°	3139.6	3136.9	3151.8	3218.0	3297.6	3465.1	3536.7	3567.7	3556.9	3523.2	3413.8
40°	3438.1	3430.0	3420.5	3465.1	3554.2	3755.4	3882.4	3898.6	3883.7	3833.7	3696.0
42.5°	3836.4	3836.4	3791.9	3804.0	3878.3	4103.8	4253.7	4305.0	4306.4	4233.5	4049.8
45°	4384.7	4379.3	4301.0	4282.1	4338.8	4560.3	4753.4	4781.7	4781.7	4685.8	4484.6
47.5°	5043.7	5036.9	4960.0	4893.8	4904.6	5143.6	5304.3	5347.5	5309.7	5238.1	4999.1
50°	5786.4	5774.2	5695.9	5633.8	5606.8	5848.5	5984.9	6005.2	5949.8	5864.7	5605.5
52.5°	6539.9	6576.4	6530.5	6496.7	6506.2	6662.8	6803.2	6707.4	6679.0	6587.2	6326.6
55°	7324.5	7436.6	7537.9	7508.1	7543.3	7695.8	7722.9	7595.9	7544.6	7478.4	7188.1
57.5°	8114.5	8441.3	8773.5	8866.6	8953.1	9171.8	9140.8	8932.8	8972.0	9070.5	8743.7
60°	9217.7	10161.7	11004.3	11159.6	11428.3	11614.7	11656.5	11616.0	11798.3	11747.0	11458.0
62.5°	10912.5	12485.7	13657.8	13949.5	14219.6	14210.1	14068.3	13922.5	14102.1	14102.1	13347.2
65°	12122.4	13907.6	15162.1	15403.8	15393.0	15067.6	14732.7	14441.0	14415.4	14215.5	13112.2
66°	12179.1	14017.0	15245.9	15456.5	15375.5	14851.5	14450.5	14080.5	13922.5	13644.3	12514.0
67.5°	11668.7	13707.8	14973.1	15156.7	14943.4	14192.6	13640.2	13144.7	12915.1	12446.5	11382.4
70°	9571.5	11780.8	13621.3	13996.7	13755.0	12804.4	12048.1	11378.3	10939.5	10262.9	9495.9
72.5°	6986.9	8697.8	10691.0	11301.4	11263.6	10388.5	9779.5	9166.4	8589.8	7974.0	7413.6
75°	4541.3	5658.1	6769.5	7126.0	6954.5	6448.1	6011.9	5654.1	5107.2	4679.1	4575.1
77.5°	2592.7	3168.0	2996.5	2951.9	2737.2	2209.2	1469.2	1030.3	930.4	1161.3	1273.4
80°	2467.2	2236.2	1831.1	1651.5	1517.8	1034.4	542.9	382.2	334.9	343.0	368.7
82.5°	2781.8	2899.3	2371.3	1981.0	1724.4	1258.6	687.3	320.0	233.6	276.8	310.6
85°	2085.0	2935.7	2910.1	2465.8	2022.9	1450.3	812.9	244.4	140.4	194.5	253.9
87.5°	422.7	695.4	669.8	588.8	501.0	349.7	136.4	77.0	70.2	95.9	145.8
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°	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1	2228.1
2.5°	2230.8	2230.8	2233.5	2237.6	2238.9	2238.9	2241.6	2238.9	2244.3	2245.7	2247.0
5°	2243.0	2247.0	2249.7	2256.5	2260.5	2263.2	2267.3	2264.6	2270.0	2271.3	2274.0
7.5°	2256.5	2263.2	2268.6	2271.3	2276.7	2276.7	2278.1	2275.4	2274.0	2270.0	2268.6
10°	2280.8	2284.9	2291.6	2288.9	2286.2	2276.7	2268.6	2256.5	2249.7	2237.6	2230.8
12.5°	2320.0	2322.7	2322.7	2310.5	2293.0	2271.3	2251.1	2230.8	2214.6	2201.1	2193.0
15°	2347.0	2352.4	2345.6	2328.1	2302.4	2272.7	2245.7	2218.7	2197.1	2179.5	2168.7
17.5°	2367.2	2365.9	2353.7	2329.4	2305.1	2279.5	2255.1	2226.8	2199.8	2174.1	2157.9
20°	2398.3	2384.8	2363.2	2337.5	2311.9	2290.3	2271.3	2244.3	2216.0	2180.9	2156.6
22.5°	2440.1	2415.8	2384.8	2357.8	2333.5	2313.2	2291.6	2268.6	2238.9	2199.8	2166.0
25°	2499.6	2457.7	2422.6	2395.6	2374.0	2351.0	2326.7	2297.0	2267.3	2226.8	2186.3
27.5°	2590.0	2527.9	2483.4	2459.1	2438.8	2407.7	2376.7	2341.6	2303.8	2261.9	2216.0
30°	2699.4	2625.1	2573.8	2552.2	2527.9	2492.8	2459.1	2410.4	2357.8	2307.8	2251.1
32.5°	2827.7	2752.1	2700.8	2684.6	2645.4	2604.9	2557.6	2492.8	2423.9	2349.7	2282.2
35°	3022.2	2926.3	2879.0	2841.2	2787.2	2738.6	2658.9	2573.8	2475.3	2376.7	2293.0
37.5°	3222.0	3124.8	3076.2	3023.5	2953.3	2864.2	2757.5	2636.0	2505.0	2383.4	2280.8
40°	3489.4	3384.1	3321.9	3240.9	3127.5	2988.4	2830.4	2664.3	2505.0	2353.7	2229.5
42.5°	3801.3	3704.1	3608.2	3474.5	3292.2	3089.7	2868.2	2654.9	2461.8	2287.6	2156.6
45°	4233.5	4067.4	3914.8	3700.1	3434.0	3149.1	2872.3	2610.3	2387.5	2194.4	2048.5
47.5°	4719.6	4504.9	4234.8	3898.6	3535.3	3172.1	2833.1	2526.6	2270.0	2060.7	1901.3
50°	5280.0	4950.5	4535.9	4056.6	3586.6	3141.0	2739.9	2386.1	2108.0	1867.6	1697.4
52.5°	5921.4	5419.1	4808.7	4168.6	3578.5	3046.5	2586.0	2201.1	1890.5	1635.3	1467.9
55°	6633.1	5929.5	5069.3	4240.2	3505.6	2862.8	2344.3	1940.5	1620.5	1369.3	1222.1
57.5°	7887.6	6824.8	5566.3	4336.1	3353.0	2584.6	2037.7	1611.0	1322.0	1108.7	968.2
60°	10218.4	8389.9	6507.5	4561.6	3123.4	2236.2	1651.5	1264.0	1022.2	866.9	763.0
62.5°	11660.6	9491.9	6966.6	4529.2	2750.7	1759.6	1226.2	937.2	746.8	644.1	579.3
65°	11318.9	9059.7	6406.2	3890.5	2140.4	1247.8	811.6	613.1	513.1	460.5	429.4
66°	10854.4	8576.3	5932.2	3484.0	1864.9	1042.5	669.8	514.5	441.6	402.4	386.2
67.5°	9880.8	7693.1	5116.6	2789.9	1397.6	776.5	494.2	403.8	359.2	338.9	328.1
70°	8269.8	6198.3	3619.0	1647.5	757.6	421.3	316.0	280.9	270.1	263.3	259.3
72.5°	6394.1	4487.3	2114.7	810.2	382.2	272.8	240.4	225.5	221.5	221.5	222.8
75°	4028.2	2579.2	946.6	390.3	259.3	220.1	205.3	198.5	199.9	201.2	199.9
77.5°	1338.2	889.9	394.3	276.8	225.5	199.9	187.7	185.0	187.7	189.1	189.1
80°	384.9	336.2	284.9	244.4	206.6	186.4	175.6	174.2	181.0	182.3	179.6
82.5°	295.7	276.8	257.9	236.3	198.5	175.6	171.5	172.8	176.9	174.2	162.0
85°	271.4	268.7	193.1	191.8	172.8	167.4	163.4	164.7	160.7	145.8	132.3
87.5°	152.6	141.8	109.4	110.7	128.3	132.3	109.4	116.1	108.0	94.5	86.4
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):

	160°	165°	170°	175°	180°
0°	2228.1	2228.1	2228.1	2228.1	2228.1
2.5°	2249.7	2248.4	2248.4	2252.4	2247.0
5°	2275.4	2274.0	2274.0	2278.1	2274.0
7.5°	2263.2	2259.2	2256.5	2255.1	2255.1
10°	2222.7	2218.7	2210.6	2207.9	2205.2
12.5°	2180.9	2176.8	2167.4	2167.4	2164.7
15°	2155.2	2149.8	2143.1	2139.0	2136.3
17.5°	2141.7	2133.6	2125.5	2121.5	2118.8
20°	2136.3	2125.5	2116.1	2109.3	2109.3
22.5°	2137.7	2124.2	2113.4	2105.3	2102.6
25°	2151.2	2130.9	2117.4	2109.3	2106.6
27.5°	2170.1	2145.8	2128.2	2117.4	2113.4
30°	2195.7	2162.0	2137.7	2124.2	2118.8
32.5°	2213.3	2166.0	2135.0	2116.1	2109.3
35°	2211.9	2151.2	2113.4	2089.0	2080.9
37.5°	2187.6	2116.1	2066.1	2036.4	2022.9
40°	2133.6	2051.2	1998.6	1970.2	1954.0
42.5°	2055.3	1966.2	1918.9	1887.8	1870.3
45°	1932.4	1844.6	1786.6	1762.3	1739.3
47.5°	1762.3	1673.1	1623.2	1588.1	1573.2
50°	1562.4	1473.3	1420.6	1392.2	1378.7
52.5°	1343.6	1258.6	1220.7	1193.7	1174.8
55°	1116.8	1038.4	1022.2	992.5	975.0
57.5°	903.4	857.5	842.6	812.9	798.1
60°	706.3	691.4	675.2	656.3	648.2
62.5°	546.9	533.4	529.4	517.2	515.8
65°	417.3	418.6	415.9	413.2	410.5
66°	379.5	378.1	379.5	376.8	375.4
67.5°	322.7	328.1	332.2	330.8	330.8
70°	262.0	266.0	271.4	270.1	270.1
72.5°	224.2	230.9	233.6	232.3	232.3
75°	202.6	209.3	209.3	206.6	205.3
77.5°	189.1	191.8	189.1	186.4	183.7
80°	175.6	172.8	168.8	164.7	162.0
82.5°	152.6	145.8	141.8	135.0	135.0
85°	122.9	117.5	108.0	101.3	94.5
87.5°	79.7	77.0	70.2	52.7	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)