

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: P158683

Luminaire Tested: **VST-F06-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158683
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-SL4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12127.1 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.5
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



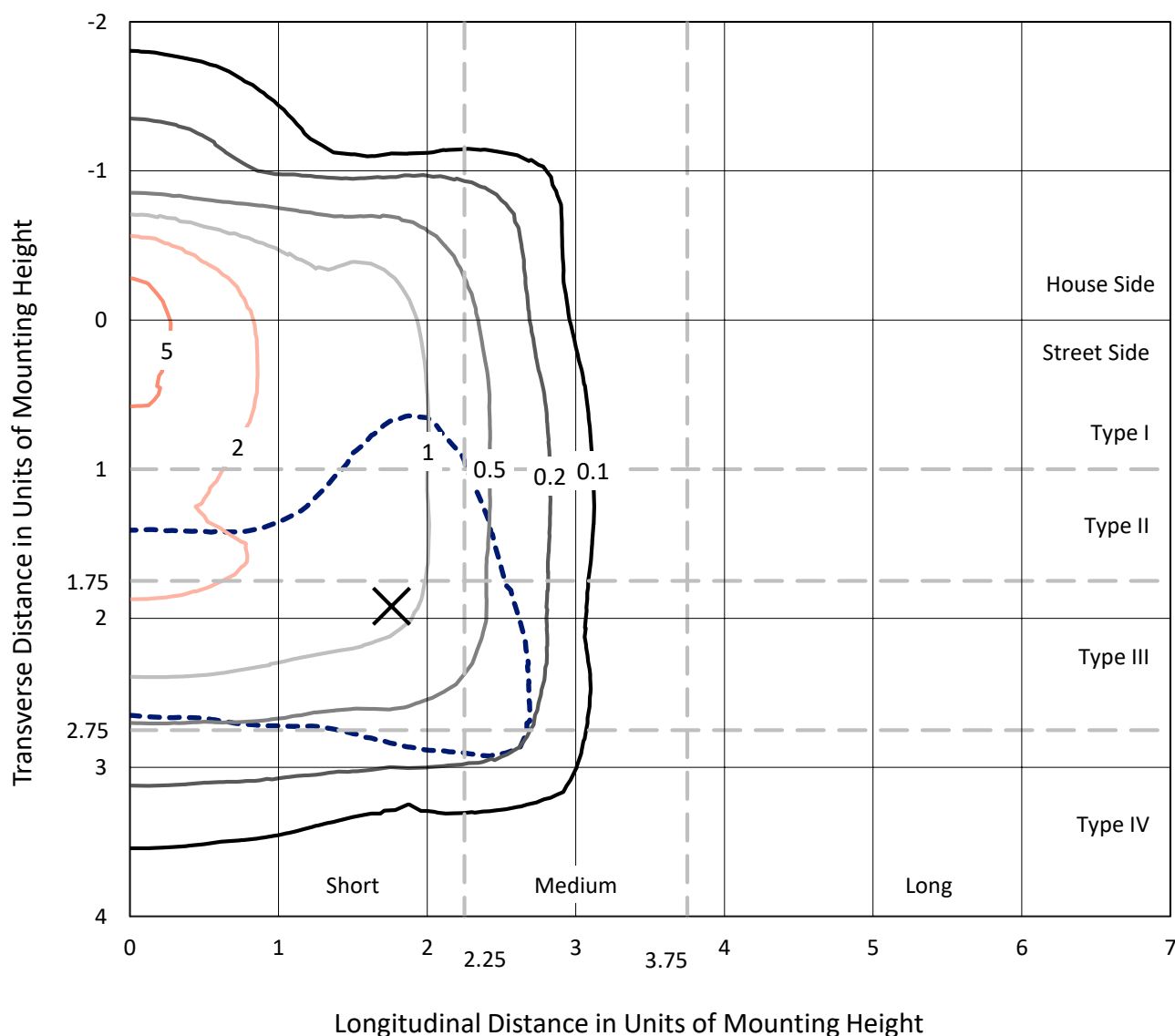
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

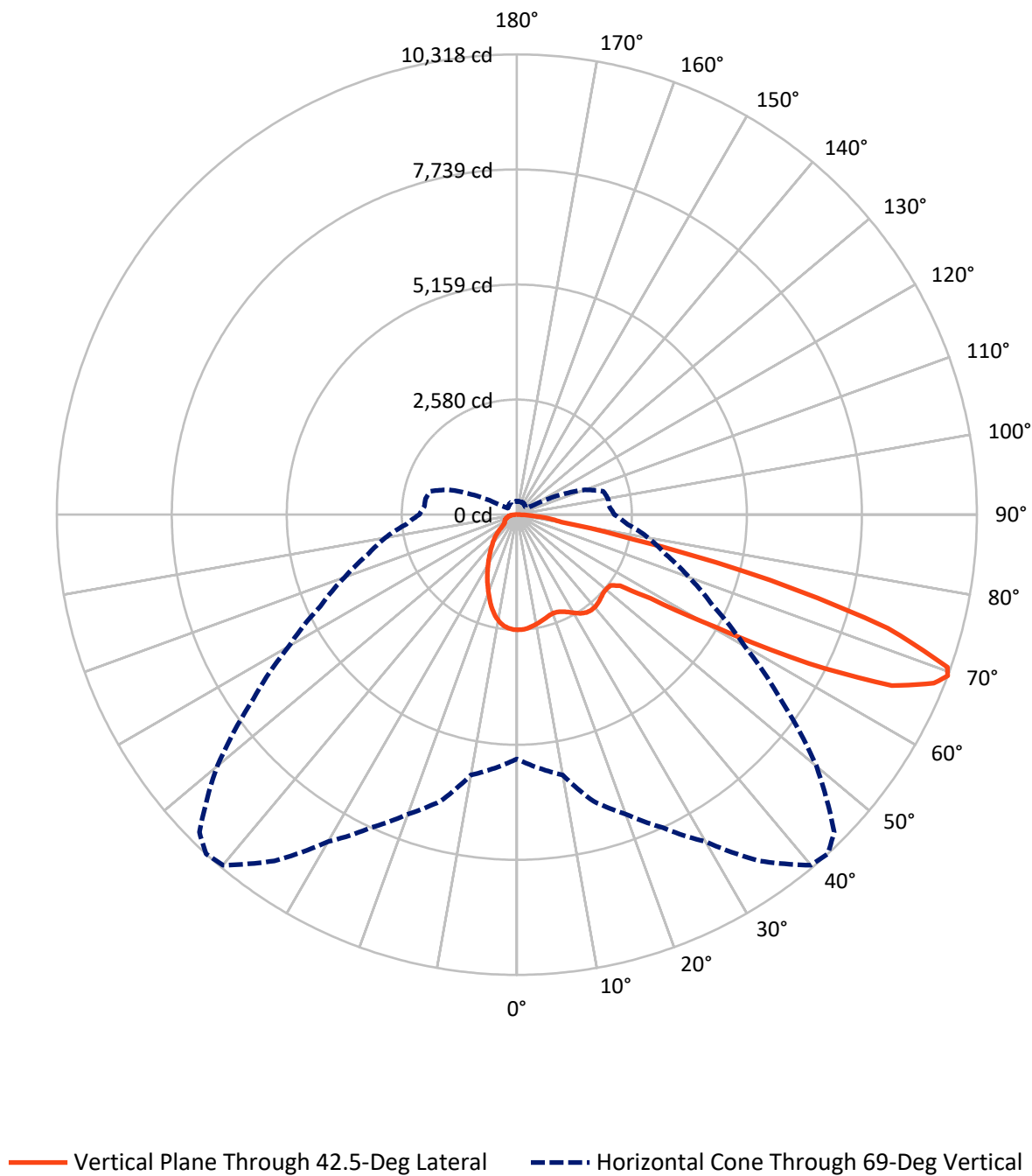


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2696.0	0.0	2696.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9431.1	0.0	9431.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	12127.1	0.0	12127.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	2.0
10°-20°	647.9	5.3
20°-30°	944.8	7.8
30°-40°	1204.5	9.9
40°-50°	1401.5	11.6
50°-60°	2132.3	17.6
60°-70°	3766.6	31.1
70°-80°	1554.3	12.8
80°-90°	234.7	1.9
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°	12127.1	100.0
0°-180°	12127.1	100.0

Coefficient of Utilization



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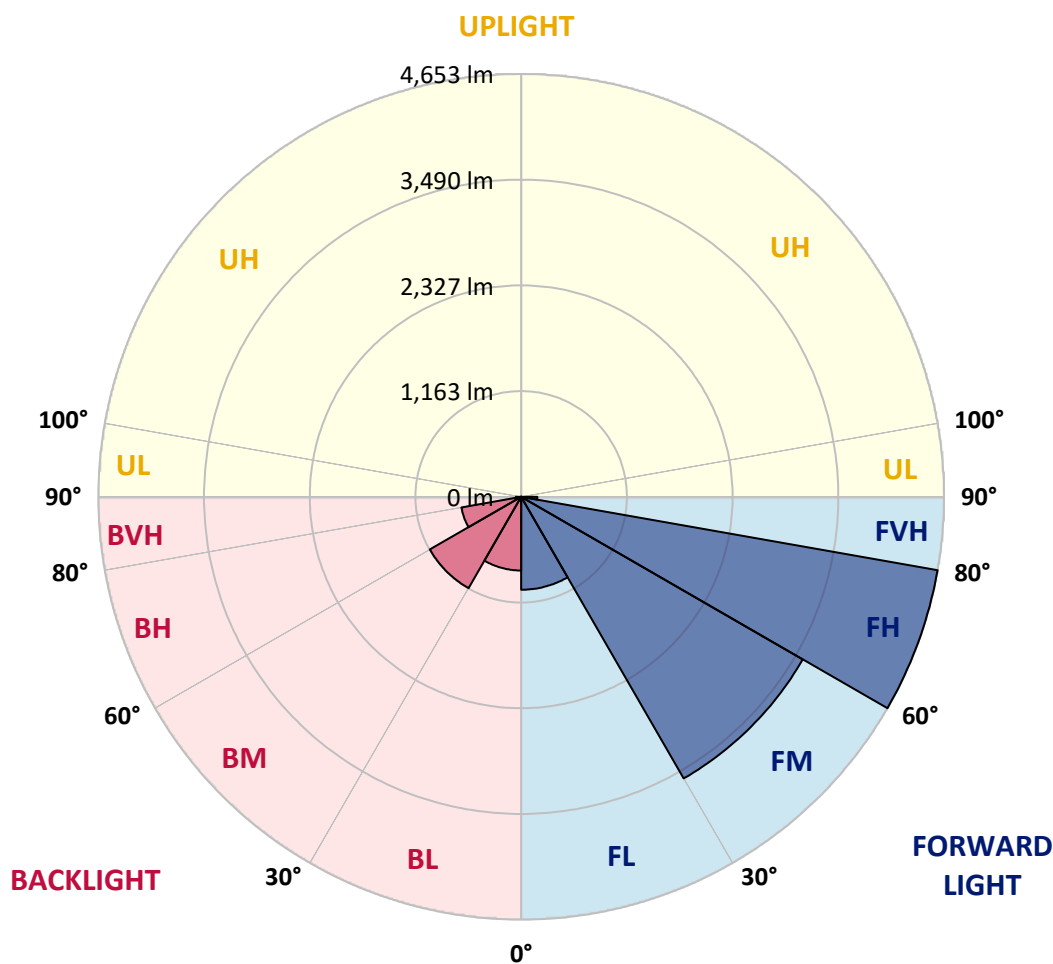
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.6	8.4			
FM	(30°-60°)	3577.8	29.5			
FH	(60°-80°)	4653.2	38.4			G2/5000
FVH	(80°-90°)	177.5	1.5			G2/225
BL	(0°-30°)	810.6	6.7	B2/1000		
BM	(30°-60°)	1160.4	9.6	B2/2500		
BH	(60°-80°)	667.8	5.5	B2/1000		G2/1000
BVH	(80°-90°)	57.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2574.3	2583.5	2580.2	2580.2	2582.7	2578.5	2578.5	2580.2	2576.0	2578.5	2577.6
5°	2565.1	2570.1	2568.4	2568.4	2568.4	2565.1	2563.4	2562.6	2556.7	2556.7	2554.2
7.5°	2545.0	2546.7	2549.2	2545.9	2545.0	2544.2	2538.3	2535.0	2528.3	2522.5	2524.1
10°	2518.3	2517.4	2521.6	2519.1	2515.8	2513.3	2508.2	2502.4	2494.9	2487.3	2486.5
12.5°	2488.2	2487.3	2490.7	2489.0	2486.5	2481.5	2477.3	2467.3	2455.6	2446.4	2445.5
15°	2469.0	2466.4	2469.8	2466.4	2462.3	2457.2	2449.7	2437.2	2416.3	2407.1	2399.6
17.5°	2487.3	2483.2	2484.8	2480.7	2474.8	2461.4	2443.9	2417.1	2387.0	2371.1	2359.4
20°	2551.7	2544.2	2545.9	2541.7	2528.3	2510.8	2477.3	2430.5	2379.5	2353.6	2335.2
22.5°	2643.7	2637.8	2640.3	2636.2	2622.8	2596.0	2545.9	2479.0	2406.2	2368.6	2339.4
25°	2783.3	2788.3	2790.0	2770.8	2763.3	2713.9	2644.5	2551.7	2454.7	2410.4	2370.3
27.5°	2940.5	2940.5	2948.0	2940.5	2925.5	2867.8	2769.9	2657.9	2533.3	2473.1	2424.6
30°	3093.5	3091.8	3106.0	3104.4	3080.1	3014.9	2903.7	2767.4	2625.3	2557.6	2495.7
32.5°	3255.7	3260.7	3269.9	3266.6	3234.8	3144.5	3010.7	2862.7	2713.1	2638.7	2569.3
35°	3431.3	3433.8	3437.1	3435.5	3371.1	3257.4	3089.3	2923.8	2768.3	2694.7	2622.8
37.5°	3606.9	3604.4	3600.2	3564.2	3490.6	3332.6	3137.0	2958.9	2795.9	2716.4	2642.0
40°	3764.0	3749.8	3736.5	3680.4	3567.6	3375.3	3155.4	2967.3	2793.4	2711.4	2638.7
42.5°	3850.2	3834.3	3806.7	3736.5	3599.3	3379.4	3142.8	2942.2	2767.4	2686.3	2614.4
45°	3866.0	3854.3	3827.6	3749.0	3591.8	3352.7	3104.4	2901.2	2729.0	2647.9	2580.2
47.5°	3828.4	3819.2	3793.3	3715.6	3559.2	3312.6	3060.1	2857.7	2691.4	2615.3	2550.1
50°	3770.7	3762.4	3742.3	3671.2	3522.4	3285.0	3037.5	2835.2	2678.8	2609.4	2549.2
52.5°	3864.4	3871.1	3812.5	3734.8	3561.7	3309.2	3062.6	2858.6	2701.4	2632.8	2570.1
55°	5320.0	5310.8	4958.8	4663.7	4136.1	3657.9	3300.9	3044.2	2876.1	2807.6	2749.0
57.5°	6912.7	6881.0	6736.3	6460.4	5893.5	5136.9	4448.8	3863.5	3632.8	3534.1	3540.8
60°	7432.8	7444.5	7413.5	7315.7	7112.6	6718.8	6195.4	5755.6	5322.5	5111.0	5135.2
62.5°	7721.2	7742.1	7768.9	7747.1	7681.1	7590.0	7523.9	7564.0	7503.8	7351.7	7230.4
65°	7761.4	7804.0	7892.6	7962.9	7997.1	8083.2	8285.6	8770.5	9213.6	9242.9	9029.7
67.5°	6967.1	7085.0	7277.3	7602.5	7880.9	8186.9	8675.2	9412.6	10066.4	10088.2	9889.2
69°	5478.0	5704.6	5929.5	6656.1	7145.2	7744.6	8467.0	9474.5	10257.9	10318.1	10067.3
70°	4389.4	4524.0	4718.0	5447.9	6178.7	6942.8	7989.6	9270.5	10126.6	10247.9	9971.1
72.5°	2635.3	2687.2	2754.1	3015.8	3392.0	4072.6	5460.5	7558.2	8542.3	8704.5	8352.5
75°	1703.9	1700.6	1706.4	1779.2	1800.9	1931.4	2368.6	3888.6	5572.5	5866.8	5445.4
77.5°	1283.4	1295.1	1276.7	1283.4	1277.5	1312.6	1326.0	1392.1	2199.7	2709.7	2423.0
80°	1132.9	1138.7	1139.6	1136.2	1095.3	1091.9	1113.7	1076.0	1000.0	1015.0	972.4
82.5°	646.3	645.5	653.0	709.8	733.2	810.2	841.9	859.5	793.4	744.1	673.0
85°	418.9	422.2	430.6	448.1	430.6	437.3	429.7	444.8	408.0	378.7	338.6
87.5°	171.4	171.4	182.3	198.2	184.8	181.4	155.5	153.8	130.4	117.9	92.0
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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CATALOG NUMBER: VST-F06-LED-E-U-SL4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2572.6	2577.6	2575.1	2578.5	2576.0	2576.0	2572.6	2571.8	2574.3	2571.0	2571.8
5°	2550.1	2550.9	2546.7	2548.4	2543.4	2541.7	2539.2	2532.5	2536.7	2532.5	2534.2
7.5°	2517.4	2514.9	2509.1	2500.7	2494.9	2492.4	2487.3	2478.1	2479.8	2472.3	2476.5
10°	2475.6	2467.3	2457.2	2444.7	2436.3	2428.8	2418.0	2407.1	2401.2	2394.5	2393.7
12.5°	2428.8	2418.8	2405.4	2386.2	2367.8	2355.2	2338.5	2319.3	2313.4	2302.6	2296.7
15°	2377.8	2361.9	2346.0	2324.3	2304.2	2285.0	2262.4	2238.2	2222.3	2205.6	2193.0
17.5°	2331.8	2313.4	2292.5	2271.6	2249.9	2226.5	2198.1	2168.0	2144.6	2113.6	2088.5
20°	2295.9	2272.5	2251.6	2229.8	2205.6	2177.2	2142.9	2104.4	2065.1	2030.8	2001.6
22.5°	2281.7	2244.9	2219.8	2198.1	2173.8	2140.4	2098.6	2053.4	2005.8	1958.1	1919.6
25°	2293.4	2239.0	2199.7	2173.8	2152.9	2118.6	2071.8	2016.6	1961.4	1904.6	1852.8
27.5°	2327.7	2258.3	2201.4	2160.4	2136.2	2101.9	2052.6	1994.1	1928.8	1865.3	1801.8
30°	2381.2	2290.9	2219.0	2161.3	2123.6	2084.4	2032.5	1964.8	1898.7	1826.0	1756.6
32.5°	2433.0	2325.1	2239.0	2164.6	2106.9	2055.9	1998.2	1931.4	1860.3	1784.2	1712.3
35°	2469.8	2347.7	2246.6	2157.1	2081.0	2017.5	1955.6	1888.7	1819.3	1741.6	1668.0
37.5°	2487.3	2360.3	2247.4	2137.0	2046.7	1976.5	1910.4	1844.4	1779.2	1705.6	1636.2
40°	2486.5	2359.4	2235.7	2111.1	2005.8	1931.4	1866.1	1801.8	1740.7	1676.3	1613.6
42.5°	2468.1	2346.0	2219.0	2086.0	1976.5	1893.7	1826.0	1764.1	1712.3	1655.4	1602.8
45°	2439.7	2323.5	2201.4	2074.3	1968.1	1885.4	1813.5	1753.3	1707.3	1655.4	1610.3
47.5°	2418.0	2310.9	2203.9	2095.2	1994.1	1907.9	1831.9	1765.8	1726.5	1684.7	1652.9
50°	2421.3	2316.8	2212.3	2107.8	2012.5	1925.5	1851.9	1791.7	1763.3	1752.4	1744.9
52.5°	2438.9	2326.0	2237.4	2174.7	2142.0	2076.8	2033.4	1995.7	2016.6	1975.7	1927.2
55°	2662.9	2626.1	2712.3	2793.4	2896.2	2934.7	2897.9	2891.2	2924.6	2785.8	2467.3
57.5°	3588.5	3683.8	3816.7	3886.9	3972.2	3949.7	3864.4	3793.3	3709.7	3547.5	3150.4
60°	5162.8	5090.9	5030.7	4861.0	4722.2	4560.0	4379.4	4224.7	4076.7	3843.5	3413.7
62.5°	6784.8	6285.7	5868.5	5465.5	5141.1	4871.9	4610.2	4377.7	4153.7	3828.4	3366.1
65°	8187.8	7136.8	6353.4	5762.3	5288.2	4879.4	4543.3	4222.2	3937.1	3555.9	3098.5
67.5°	8818.2	7501.3	6361.8	5514.8	4858.5	4303.3	3868.6	3383.6	3064.2	2820.1	2562.6
69°	8771.3	7222.9	5907.8	4865.2	4111.0	3463.9	2997.4	2491.5	2185.5	2081.8	2076.0
70°	8548.9	6751.4	5377.7	4337.6	3474.8	2831.8	2384.5	1930.5	1645.4	1574.3	1700.6
72.5°	6979.6	4770.7	3370.2	2573.5	1979.0	1564.3	1275.9	1012.5	808.5	700.6	724.0
75°	3942.1	2208.9	1428.0	1079.4	912.2	754.1	647.1	551.8	499.1	405.5	321.1
77.5°	1433.0	948.1	754.1	652.1	462.4	318.5	266.7	233.3	211.5	211.5	201.5
80°	906.3	714.0	498.3	341.1	252.5	219.9	192.3	168.9	155.5	152.2	155.5
82.5°	566.0	437.3	279.3	214.0	179.8	161.4	140.5	122.9	112.0	109.5	114.5
85°	279.3	216.5	169.7	151.3	142.1	132.1	116.2	99.5	96.1	102.8	120.4
87.5°	83.6	74.4	61.0	63.5	66.9	65.2	51.8	45.1	42.6	56.0	87.8
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°	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2573.5	2572.6	2574.3	2571.8	2573.5	2574.3	2572.6	2580.2	2575.1	2576.0	2579.3
5°	2535.8	2534.2	2540.9	2539.2	2542.5	2545.9	2544.2	2555.1	2550.9	2554.2	2560.9
7.5°	2473.1	2476.5	2477.3	2477.3	2484.0	2494.9	2497.4	2504.1	2504.1	2513.3	2520.0
10°	2389.5	2390.4	2395.4	2394.5	2402.9	2414.6	2416.3	2428.0	2432.2	2447.2	2456.4
12.5°	2292.5	2288.4	2287.5	2286.7	2297.6	2310.1	2311.8	2331.8	2340.2	2353.6	2368.6
15°	2183.8	2173.0	2169.6	2176.3	2173.8	2181.3	2188.9	2199.7	2211.4	2238.2	2251.6
17.5°	2077.7	2055.9	2050.1	2042.5	2035.0	2035.0	2038.4	2051.7	2076.0	2090.2	2120.3
20°	1969.0	1943.1	1922.2	1902.1	1884.5	1877.8	1878.7	1895.4	1913.0	1936.4	1964.8
22.5°	1877.8	1838.5	1802.6	1775.8	1739.9	1739.1	1734.0	1739.1	1758.3	1764.1	1780.0
25°	1799.2	1746.6	1698.1	1654.6	1619.5	1601.1	1596.1	1594.4	1585.2	1582.7	1571.0
27.5°	1738.2	1674.7	1612.0	1559.3	1515.8	1490.7	1459.0	1436.4	1403.8	1395.4	1374.5
30°	1688.1	1619.5	1550.9	1482.4	1433.0	1387.9	1334.4	1295.1	1244.9	1212.3	1183.9
32.5°	1639.6	1570.2	1500.8	1433.0	1357.0	1286.7	1216.5	1155.5	1099.4	1049.3	1007.5
35°	1599.4	1533.4	1463.1	1381.2	1284.2	1183.1	1098.6	1029.2	952.3	899.6	847.0
37.5°	1573.5	1513.3	1443.1	1330.2	1205.6	1096.9	1000.8	916.3	837.8	758.3	699.0
40°	1561.8	1509.1	1421.3	1283.4	1137.1	1016.7	910.5	816.9	716.5	627.1	563.5
42.5°	1561.0	1507.5	1391.2	1231.5	1080.2	949.0	831.1	719.0	607.8	515.9	453.2
45°	1576.0	1504.9	1359.5	1188.1	1030.1	892.9	752.5	616.2	491.6	423.1	389.6
47.5°	1616.1	1509.1	1333.6	1147.9	982.4	825.2	662.2	503.3	400.5	368.7	368.7
50°	1688.1	1533.4	1326.9	1119.5	934.7	746.6	551.8	406.3	354.5	354.5	364.5
52.5°	1798.4	1584.4	1338.6	1099.4	875.4	642.9	434.8	350.3	340.3	349.5	362.9
55°	2052.6	1674.7	1354.5	1065.2	785.1	510.0	358.7	331.1	335.3	346.1	358.7
57.5°	2519.1	1867.8	1371.2	989.9	639.6	393.0	325.2	323.6	331.1	341.1	352.0
60°	2826.0	2113.6	1413.8	876.2	484.1	324.4	308.5	318.5	327.7	336.1	344.5
62.5°	2826.0	2183.0	1445.6	749.1	363.7	295.1	297.6	313.5	324.4	328.6	333.6
65°	2645.4	2055.9	1337.7	610.3	296.0	278.4	287.6	303.5	313.5	316.9	321.1
67.5°	2311.8	1816.0	1127.0	459.8	264.2	264.2	275.9	287.6	296.0	302.7	309.4
69°	2009.9	1629.5	992.4	389.6	251.7	253.3	265.0	275.1	285.1	293.5	301.8
70°	1792.6	1489.9	898.8	353.7	244.1	245.0	256.7	267.5	276.7	285.9	296.0
72.5°	959.8	1029.2	683.1	290.1	224.9	227.4	238.3	248.3	256.7	265.9	275.1
75°	326.9	442.3	434.8	237.4	203.2	209.9	216.5	225.7	236.6	242.5	247.5
77.5°	191.5	198.2	231.6	193.1	183.1	186.4	194.0	201.5	210.7	216.5	220.7
80°	160.5	159.7	160.5	157.2	159.7	167.2	172.2	182.3	190.6	192.3	191.5
82.5°	130.4	137.1	138.0	136.3	143.8	149.7	153.8	159.7	158.9	160.5	163.9
85°	116.2	115.4	121.2	122.1	122.1	117.9	118.7	118.7	118.7	121.2	122.1
87.5°	116.2	97.0	75.2	67.7	71.1	66.9	63.5	62.7	69.4	76.1	74.4
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°	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2581.0	2583.5	2581.8	2581.8	2583.5
5°	2563.4	2567.6	2565.9	2567.6	2567.6
7.5°	2523.3	2529.2	2533.3	2537.5	2535.0
10°	2465.6	2475.6	2482.3	2487.3	2484.8
12.5°	2379.5	2388.7	2402.9	2411.3	2404.6
15°	2261.6	2287.5	2295.9	2307.6	2300.9
17.5°	2138.7	2154.6	2164.6	2175.5	2182.2
20°	1974.8	1987.4	2000.7	2005.8	1998.2
22.5°	1777.5	1784.2	1781.7	1789.2	1774.2
25°	1561.0	1565.1	1562.6	1569.3	1556.8
27.5°	1356.1	1355.3	1356.1	1347.8	1339.4
30°	1158.8	1151.3	1147.9	1135.4	1132.9
32.5°	982.4	956.5	943.1	924.7	920.5
35°	806.0	769.2	744.9	724.0	714.9
37.5°	648.0	603.7	575.2	556.8	554.3
40°	512.5	471.6	451.5	441.5	439.8
42.5°	418.0	400.5	395.5	395.5	395.5
45°	381.3	380.4	384.6	387.9	388.8
47.5°	373.7	378.7	384.6	389.6	391.3
50°	373.7	378.7	382.9	387.9	389.6
52.5°	372.1	376.2	377.9	381.3	382.9
55°	367.0	369.5	369.5	371.2	372.9
57.5°	358.7	360.4	357.8	359.5	363.7
60°	350.3	352.0	347.8	352.0	354.5
62.5°	341.1	342.0	340.3	343.6	343.6
65°	326.1	324.4	326.9	329.4	330.3
67.5°	311.0	306.8	309.4	310.2	311.9
69°	299.3	296.8	297.6	299.3	301.0
70°	291.0	289.3	291.0	293.5	296.0
72.5°	270.1	270.9	276.7	281.8	286.8
75°	250.8	256.7	264.2	275.1	280.9
77.5°	227.4	231.6	237.4	249.2	260.0
80°	196.5	199.0	199.8	204.0	203.2
82.5°	159.7	157.2	155.5	153.8	153.0
85°	114.5	113.7	107.0	102.0	102.0
87.5°	68.6	65.2	61.9	57.7	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)