

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: P158684

Luminaire Tested: **VST-F06-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158684
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-SL4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13123.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

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

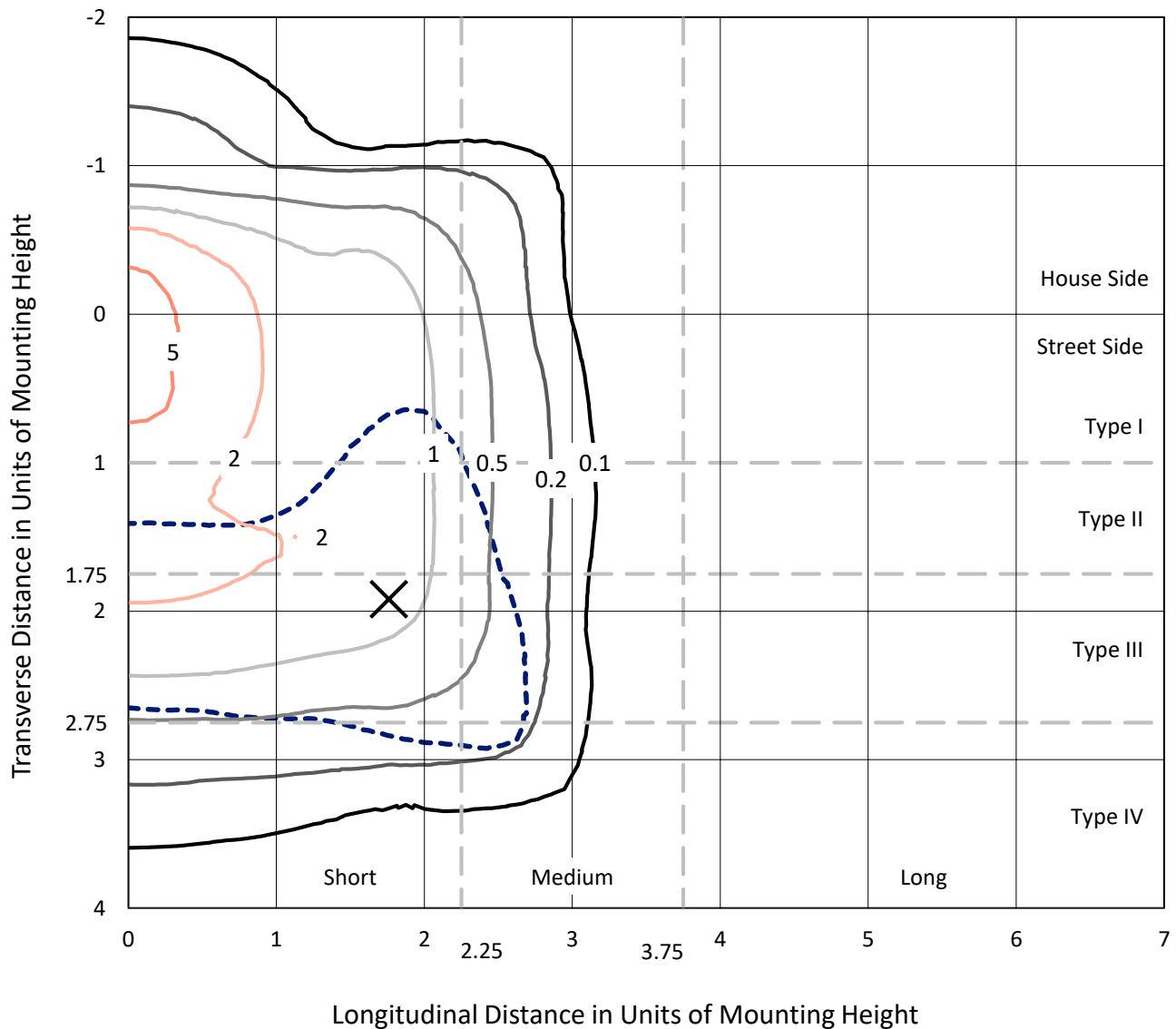


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

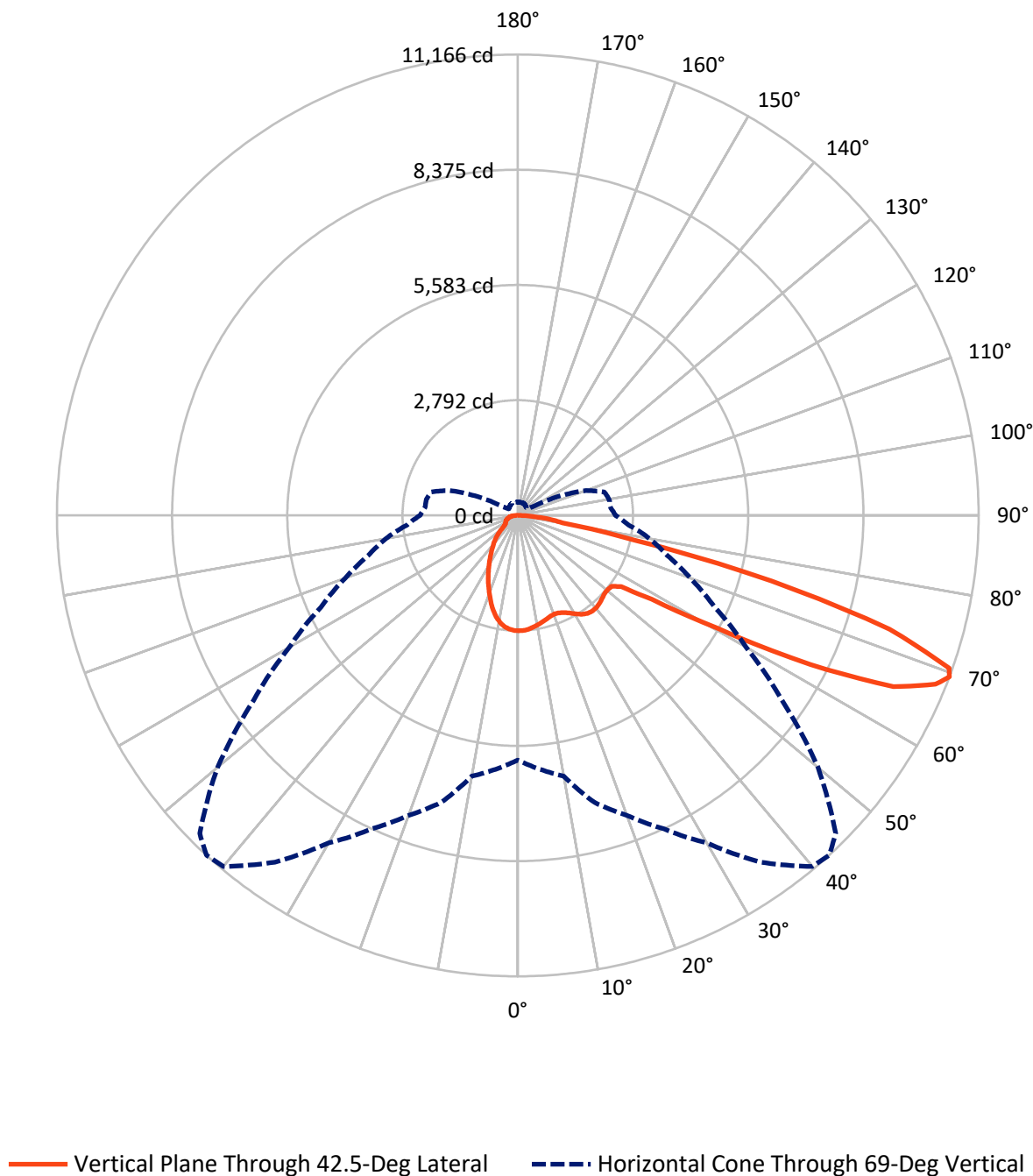


Based on 20 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.6	0.0	2917.6
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	10206.1	0.0	10206.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	13123.7	0.0	13123.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	2.0
10°-20°	701.2	5.3
20°-30°	1022.5	7.8
30°-40°	1303.5	9.9
40°-50°	1516.6	11.6
50°-60°	2307.5	17.6
60°-70°	4076.2	31.1
70°-80°	1682.1	12.8
80°-90°	254.0	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°	13123.7	100.0
0°-180°	13123.7	100.0

Coefficient of Utilization



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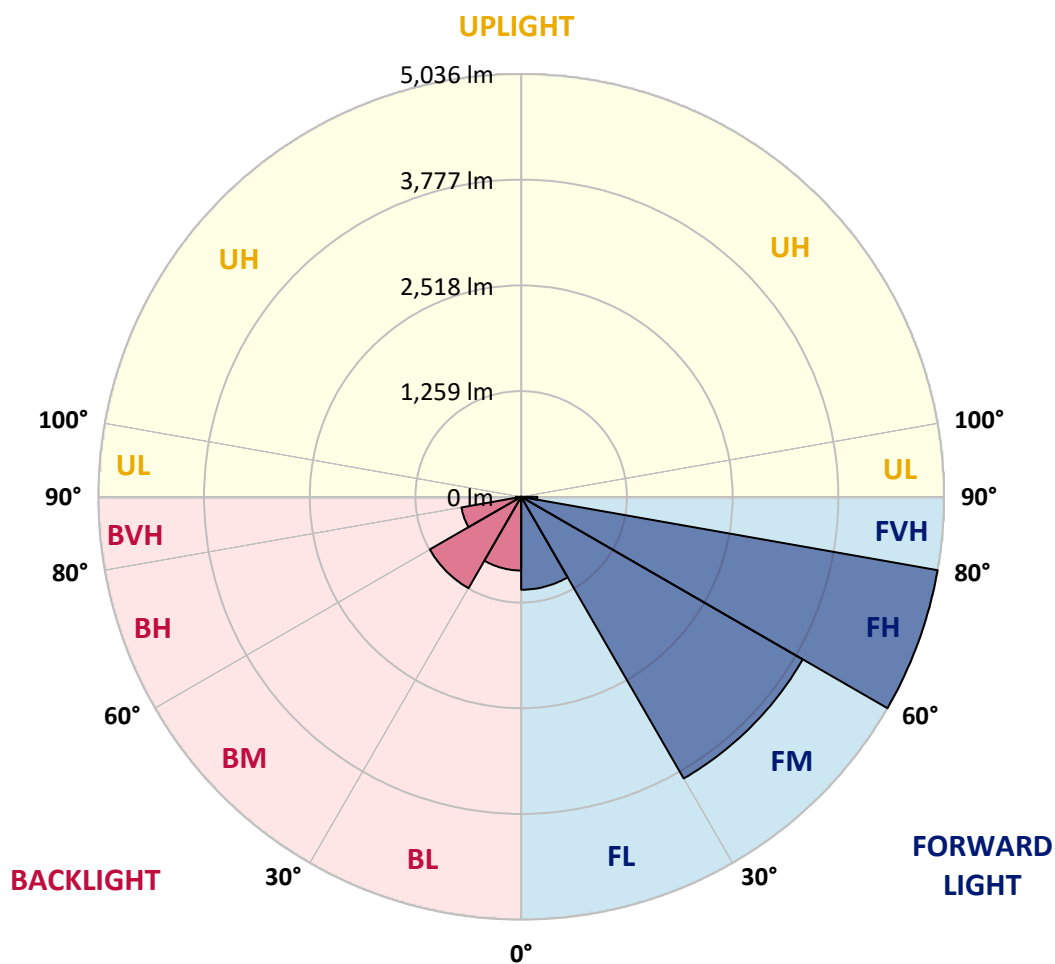
CATALOG NUMBER: VST-F06-LED-E-U-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.6	8.4			
FM	(30°-60°)	3871.8	29.5			
FH	(60°-80°)	5035.6	38.4			G3/7500
FVH	(80°-90°)	192.1	1.5			G2/225
BL	(0°-30°)	877.2	6.7	B2/1000		
BM	(30°-60°)	1255.8	9.6	B2/2500		
BH	(60°-80°)	722.7	5.5	B2/1000		G2/1000
BVH	(80°-90°)	61.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	2785.9	2795.8	2792.2	2792.2	2794.9	2790.4	2790.4	2792.2	2787.7	2790.4	2789.5
5°	2775.9	2781.3	2779.5	2779.5	2779.5	2775.9	2774.1	2773.2	2766.9	2766.9	2764.1
7.5°	2754.2	2756.0	2758.7	2755.1	2754.2	2753.3	2746.9	2743.3	2736.1	2729.8	2731.6
10°	2725.2	2724.3	2728.9	2726.1	2722.5	2719.8	2714.4	2708.0	2699.9	2691.8	2690.9
12.5°	2692.7	2691.8	2695.4	2693.6	2690.9	2685.4	2680.9	2670.0	2657.4	2647.4	2646.5
15°	2671.9	2669.1	2672.8	2669.1	2664.6	2659.2	2651.0	2637.5	2614.8	2604.9	2596.8
17.5°	2691.8	2687.2	2689.0	2684.5	2678.2	2663.7	2644.7	2615.8	2583.2	2566.0	2553.3
20°	2761.4	2753.3	2755.1	2750.6	2736.1	2717.1	2680.9	2630.2	2575.0	2547.0	2527.1
22.5°	2861.0	2854.6	2857.3	2852.8	2838.3	2809.4	2755.1	2682.7	2604.0	2563.3	2531.6
25°	3012.1	3017.5	3019.3	2998.5	2990.3	2937.0	2861.9	2761.4	2656.5	2608.5	2565.1
27.5°	3182.2	3182.2	3190.3	3182.2	3165.9	3103.4	2997.6	2876.3	2741.5	2676.4	2623.9
30°	3347.7	3345.9	3361.3	3359.5	3333.3	3262.7	3142.3	2994.9	2841.0	2767.8	2700.8
32.5°	3523.3	3528.7	3538.6	3535.0	3500.6	3402.9	3258.2	3098.0	2936.1	2855.5	2780.4
35°	3713.3	3716.0	3719.6	3717.8	3648.1	3525.1	3343.2	3164.1	2995.8	2916.1	2838.3
37.5°	3903.3	3900.6	3896.0	3857.1	3777.5	3606.5	3394.8	3202.1	3025.6	2939.7	2859.1
40°	4073.4	4058.0	4043.5	3982.9	3860.7	3652.6	3414.7	3211.1	3022.9	2934.2	2855.5
42.5°	4166.6	4149.4	4119.5	4043.5	3895.1	3657.2	3401.1	3184.0	2994.9	2907.1	2829.3
45°	4183.8	4171.1	4142.1	4057.1	3887.0	3628.2	3359.5	3139.6	2953.2	2865.5	2792.2
47.5°	4143.0	4133.1	4105.0	4020.9	3851.7	3584.8	3311.5	3092.6	2912.5	2830.2	2759.6
50°	4080.6	4071.6	4049.8	3972.9	3811.9	3554.9	3287.1	3068.2	2899.0	2823.9	2758.7
52.5°	4181.9	4189.2	4125.9	4041.7	3854.4	3581.2	3314.3	3093.5	2923.4	2849.2	2781.3
55°	5757.2	5747.2	5366.3	5046.9	4476.0	3958.5	3572.1	3294.3	3112.5	3038.3	2975.0
57.5°	7480.8	7446.4	7289.9	6991.3	6377.9	5559.0	4814.4	4181.0	3931.3	3824.6	3831.8
60°	8043.6	8056.3	8022.8	7916.9	7697.1	7270.9	6704.5	6228.6	5759.9	5531.0	5557.2
62.5°	8355.8	8378.4	8407.3	8383.8	8312.3	8213.7	8142.2	8185.7	8120.5	7955.8	7824.6
65°	8399.2	8445.3	8541.2	8617.2	8654.3	8747.5	8966.5	9491.3	9970.8	10002.5	9771.8
67.5°	7539.6	7667.2	7875.3	8227.3	8528.6	8859.7	9388.1	10186.2	10893.7	10917.2	10701.9
69°	5928.2	6173.4	6416.8	7203.1	7732.4	8381.1	9162.8	10253.1	11100.9	11166.0	10894.6
70°	4750.2	4895.8	5105.7	5895.6	6686.4	7513.4	8646.2	10032.3	10958.8	11090.0	10790.6
72.5°	2851.9	2908.0	2980.4	3263.6	3670.7	4407.2	5909.2	8179.3	9244.3	9419.8	9038.9
75°	1844.0	1840.3	1846.7	1925.4	1948.9	2090.1	2563.3	4208.2	6030.4	6348.9	5892.9
77.5°	1388.9	1401.5	1381.6	1388.9	1382.5	1420.5	1435.0	1506.5	2380.5	2932.4	2622.1
80°	1226.0	1232.3	1233.2	1229.6	1185.3	1181.7	1205.2	1164.5	1082.1	1098.4	1052.3
82.5°	699.4	698.5	706.6	768.2	793.5	876.7	911.1	930.1	858.6	805.3	728.4
85°	453.3	456.9	466.0	485.0	466.0	473.2	465.1	481.3	441.5	409.9	366.4
87.5°	185.5	185.5	197.2	214.4	200.0	196.3	168.3	166.5	141.1	127.6	99.5
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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CATALOG NUMBER: VST-F06-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	2784.0	2789.5	2786.8	2790.4	2787.7	2787.7	2784.0	2783.1	2785.9	2782.2	2783.1
5°	2759.6	2760.5	2756.0	2757.8	2752.4	2750.6	2747.9	2740.6	2745.1	2740.6	2742.4
7.5°	2724.3	2721.6	2715.3	2706.2	2699.9	2697.2	2691.8	2681.8	2683.6	2675.5	2680.0
10°	2679.1	2670.0	2659.2	2645.6	2636.6	2628.4	2616.7	2604.9	2598.6	2591.3	2590.4
12.5°	2628.4	2617.6	2603.1	2582.3	2562.4	2548.8	2530.7	2509.9	2503.6	2491.8	2485.5
15°	2573.2	2556.0	2538.8	2515.3	2493.6	2472.8	2448.4	2422.1	2404.9	2386.8	2373.3
17.5°	2523.5	2503.6	2480.9	2458.3	2434.8	2409.5	2378.7	2346.1	2320.8	2287.3	2260.2
20°	2484.6	2459.2	2436.6	2413.1	2386.8	2356.1	2319.0	2277.4	2234.8	2197.7	2166.1
22.5°	2469.2	2429.4	2402.2	2378.7	2352.5	2316.3	2271.0	2222.2	2170.6	2119.0	2077.4
25°	2481.8	2423.0	2380.5	2352.5	2329.8	2292.7	2242.1	2182.4	2122.6	2061.1	2005.0
27.5°	2518.9	2443.8	2382.3	2338.0	2311.7	2274.6	2221.3	2157.9	2087.4	2018.6	1949.8
30°	2576.8	2479.1	2401.3	2338.9	2298.2	2255.6	2199.5	2126.3	2054.8	1976.1	1901.0
32.5°	2632.9	2516.2	2423.0	2342.5	2280.1	2224.9	2162.5	2090.1	2013.2	1930.8	1853.0
35°	2672.8	2540.7	2431.2	2334.4	2252.0	2183.3	2116.3	2043.9	1968.8	1884.7	1805.1
37.5°	2691.8	2554.2	2432.1	2312.6	2214.9	2138.9	2067.5	1996.0	1925.4	1845.8	1770.7
40°	2690.9	2553.3	2419.4	2284.6	2170.6	2090.1	2019.5	1949.8	1883.8	1814.1	1746.2
42.5°	2670.9	2538.8	2401.3	2257.5	2138.9	2049.4	1976.1	1909.1	1853.0	1791.5	1734.5
45°	2640.2	2514.4	2382.3	2244.8	2129.9	2040.3	1962.5	1897.3	1847.6	1791.5	1742.6
47.5°	2616.7	2500.8	2385.0	2267.4	2157.9	2064.7	1982.4	1910.9	1868.4	1823.2	1788.8
50°	2620.3	2507.2	2394.1	2281.0	2177.8	2083.7	2004.1	1939.0	1908.2	1896.4	1888.3
52.5°	2639.3	2517.1	2421.2	2353.4	2318.1	2247.5	2200.5	2159.7	2182.4	2138.0	2085.5
55°	2881.8	2842.0	2935.1	3022.9	3134.2	3175.8	3136.0	3128.8	3165.0	3014.8	2670.0
57.5°	3883.4	3986.5	4130.4	4206.4	4298.7	4274.2	4181.9	4105.0	4014.6	3839.0	3409.3
60°	5587.1	5509.3	5444.1	5260.5	5110.3	4934.7	4739.3	4571.9	4411.8	4159.3	3694.3
62.5°	7342.4	6802.2	6350.7	5914.6	5563.6	5272.2	4989.0	4737.5	4495.0	4143.0	3642.7
65°	8860.6	7723.3	6875.5	6235.8	5722.8	5280.4	4916.6	4569.2	4260.7	3848.1	3353.2
67.5°	9542.8	8117.8	6884.6	5968.0	5257.7	4657.0	4186.5	3661.7	3316.1	3051.9	2773.2
69°	9492.2	7816.5	6393.3	5265.0	4448.9	3748.6	3243.7	2696.3	2365.1	2252.9	2246.6
70°	9251.5	7306.2	5819.6	4694.1	3760.3	3064.5	2580.5	2089.2	1780.6	1703.7	1840.3
72.5°	7553.2	5162.7	3647.2	2785.0	2141.6	1692.9	1380.7	1095.7	874.9	758.2	783.6
75°	4266.1	2390.5	1545.4	1168.1	987.1	816.1	700.3	597.2	540.2	438.8	347.4
77.5°	1550.8	1026.0	816.1	705.7	500.4	344.7	288.6	252.4	228.9	228.9	218.1
80°	980.8	772.7	539.3	369.2	273.2	238.0	208.1	182.8	168.3	164.7	168.3
82.5°	612.5	473.2	302.2	231.6	194.5	174.6	152.0	133.0	121.2	118.5	124.0
85°	302.2	234.3	183.7	163.8	153.8	143.0	125.8	107.7	104.1	111.3	130.3
87.5°	90.5	80.5	66.0	68.8	72.4	70.6	56.1	48.9	46.1	60.6	95.0
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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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	2785.0	2784.0	2785.9	2783.1	2785.0	2785.9	2784.0	2792.2	2786.8	2787.7	2791.3
5°	2744.2	2742.4	2749.7	2747.9	2751.5	2755.1	2753.3	2765.0	2760.5	2764.1	2771.4
7.5°	2676.4	2680.0	2680.9	2680.9	2688.1	2699.9	2702.6	2709.9	2709.9	2719.8	2727.0
10°	2585.9	2586.8	2592.2	2591.3	2600.4	2613.0	2614.8	2627.5	2632.0	2648.3	2658.3
12.5°	2480.9	2476.4	2475.5	2474.6	2486.4	2499.9	2501.8	2523.5	2532.5	2547.0	2563.3
15°	2363.3	2351.6	2347.9	2355.2	2352.5	2360.6	2368.7	2380.5	2393.2	2422.1	2436.6
17.5°	2248.4	2224.9	2218.6	2210.4	2202.3	2202.3	2205.9	2220.4	2246.6	2262.0	2294.6
20°	2130.8	2102.7	2080.1	2058.4	2039.4	2032.2	2033.1	2051.2	2070.2	2095.5	2126.3
22.5°	2032.2	1989.6	1950.7	1921.8	1882.9	1882.0	1876.5	1882.0	1902.8	1909.1	1926.3
25°	1947.1	1890.1	1837.6	1790.6	1752.6	1732.7	1727.2	1725.4	1715.5	1712.8	1700.1
27.5°	1881.1	1812.3	1744.4	1687.4	1640.4	1613.2	1578.9	1554.4	1519.1	1510.1	1487.5
30°	1826.8	1752.6	1678.4	1604.2	1550.8	1502.0	1444.0	1401.5	1347.2	1311.9	1281.2
32.5°	1774.3	1699.2	1624.1	1550.8	1468.5	1392.5	1316.5	1250.4	1189.8	1135.5	1090.3
35°	1730.9	1659.4	1583.4	1494.7	1389.8	1280.3	1188.9	1113.8	1030.6	973.6	916.6
37.5°	1702.8	1637.7	1561.7	1439.5	1304.7	1187.1	1083.0	991.7	906.6	820.6	756.4
40°	1690.2	1633.1	1538.1	1388.9	1230.5	1100.2	985.3	884.0	775.4	678.6	609.8
42.5°	1689.2	1631.3	1505.6	1332.8	1169.0	1026.9	899.4	778.1	657.8	558.3	490.4
45°	1705.5	1628.6	1471.2	1285.7	1114.7	966.3	814.3	666.8	532.0	457.8	421.6
47.5°	1749.0	1633.1	1443.1	1242.3	1063.1	893.0	716.6	544.7	433.4	399.0	399.0
50°	1826.8	1659.4	1435.9	1211.5	1011.6	808.0	597.2	439.7	383.6	383.6	394.5
52.5°	1946.2	1714.6	1448.6	1189.8	947.3	695.8	470.5	379.1	368.3	378.2	392.7
55°	2221.3	1812.3	1465.8	1152.7	849.6	551.9	388.2	358.3	362.8	374.6	388.2
57.5°	2726.1	2021.3	1483.9	1071.3	692.2	425.3	352.0	350.2	358.3	369.2	380.9
60°	3058.2	2287.3	1530.0	948.2	523.9	351.1	333.9	344.7	354.7	363.7	372.8
62.5°	3058.2	2362.4	1564.4	810.7	393.6	319.4	322.1	339.3	351.1	355.6	361.0
65°	2862.8	2224.9	1447.7	660.5	320.3	301.3	311.2	328.4	339.3	342.9	347.4
67.5°	2501.8	1965.2	1219.7	497.6	285.9	285.9	298.6	311.2	320.3	327.5	334.8
69°	2175.1	1763.4	1074.0	421.6	272.3	274.2	286.8	297.7	308.5	317.6	326.6
70°	1939.9	1612.3	972.7	382.7	264.2	265.1	277.8	289.5	299.5	309.4	320.3
72.5°	1038.7	1113.8	739.2	314.0	243.4	246.1	257.9	268.7	277.8	287.7	297.7
75°	353.8	478.6	470.5	257.0	219.9	227.1	234.3	244.3	256.1	262.4	267.8
77.5°	207.2	214.4	250.6	209.0	198.1	201.8	209.9	218.1	228.0	234.3	238.9
80°	173.7	172.8	173.7	170.1	172.8	181.0	186.4	197.2	206.3	208.1	207.2
82.5°	141.1	148.4	149.3	147.5	155.6	162.0	166.5	172.8	171.9	173.7	177.3
85°	125.8	124.9	131.2	132.1	132.1	127.6	128.5	128.5	128.5	131.2	132.1
87.5°	125.8	105.0	81.4	73.3	76.9	72.4	68.8	67.9	75.1	82.3	80.5
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):

	160°	165°	170°	175°	180°
0°	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	2793.1	2795.8	2794.0	2794.0	2795.8
5°	2774.1	2778.6	2776.8	2778.6	2778.6
7.5°	2730.7	2737.0	2741.5	2746.0	2743.3
10°	2668.2	2679.1	2686.3	2691.8	2689.0
12.5°	2575.0	2585.0	2600.4	2609.4	2602.2
15°	2447.5	2475.5	2484.6	2497.2	2490.0
17.5°	2314.5	2331.6	2342.5	2354.3	2361.5
20°	2137.1	2150.7	2165.2	2170.6	2162.5
22.5°	1923.6	1930.8	1928.1	1936.3	1920.0
25°	1689.2	1693.8	1691.1	1698.3	1684.7
27.5°	1467.6	1466.7	1467.6	1458.5	1449.5
30°	1254.0	1245.9	1242.3	1228.7	1226.0
32.5°	1063.1	1035.1	1020.6	1000.7	996.2
35°	872.2	832.4	806.2	783.6	773.6
37.5°	701.2	653.3	622.5	602.6	599.9
40°	554.6	510.3	488.6	477.7	475.9
42.5°	452.4	433.4	428.0	428.0	428.0
45°	412.6	411.7	416.2	419.8	420.7
47.5°	404.4	409.9	416.2	421.6	423.4
50°	404.4	409.9	414.4	419.8	421.6
52.5°	402.6	407.2	409.0	412.6	414.4
55°	397.2	399.9	399.9	401.7	403.5
57.5°	388.2	390.0	387.3	389.1	393.6
60°	379.1	380.9	376.4	380.9	383.6
62.5°	369.2	370.1	368.3	371.9	371.9
65°	352.9	351.1	353.8	356.5	357.4
67.5°	336.6	332.1	334.8	335.7	337.5
69°	323.9	321.2	322.1	323.9	325.7
70°	314.9	313.1	314.9	317.6	320.3
72.5°	292.2	293.2	299.5	304.9	310.3
75°	271.4	277.8	285.9	297.7	304.0
77.5°	246.1	250.6	257.0	269.6	281.4
80°	212.6	215.3	216.2	220.8	219.9
82.5°	172.8	170.1	168.3	166.5	165.6
85°	124.0	123.1	115.8	110.4	110.4
87.5°	74.2	70.6	67.0	62.4	59.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)