

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: P158475

Luminaire Tested: **VST-F07-LED-E-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158475
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-SL3
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17433.5 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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



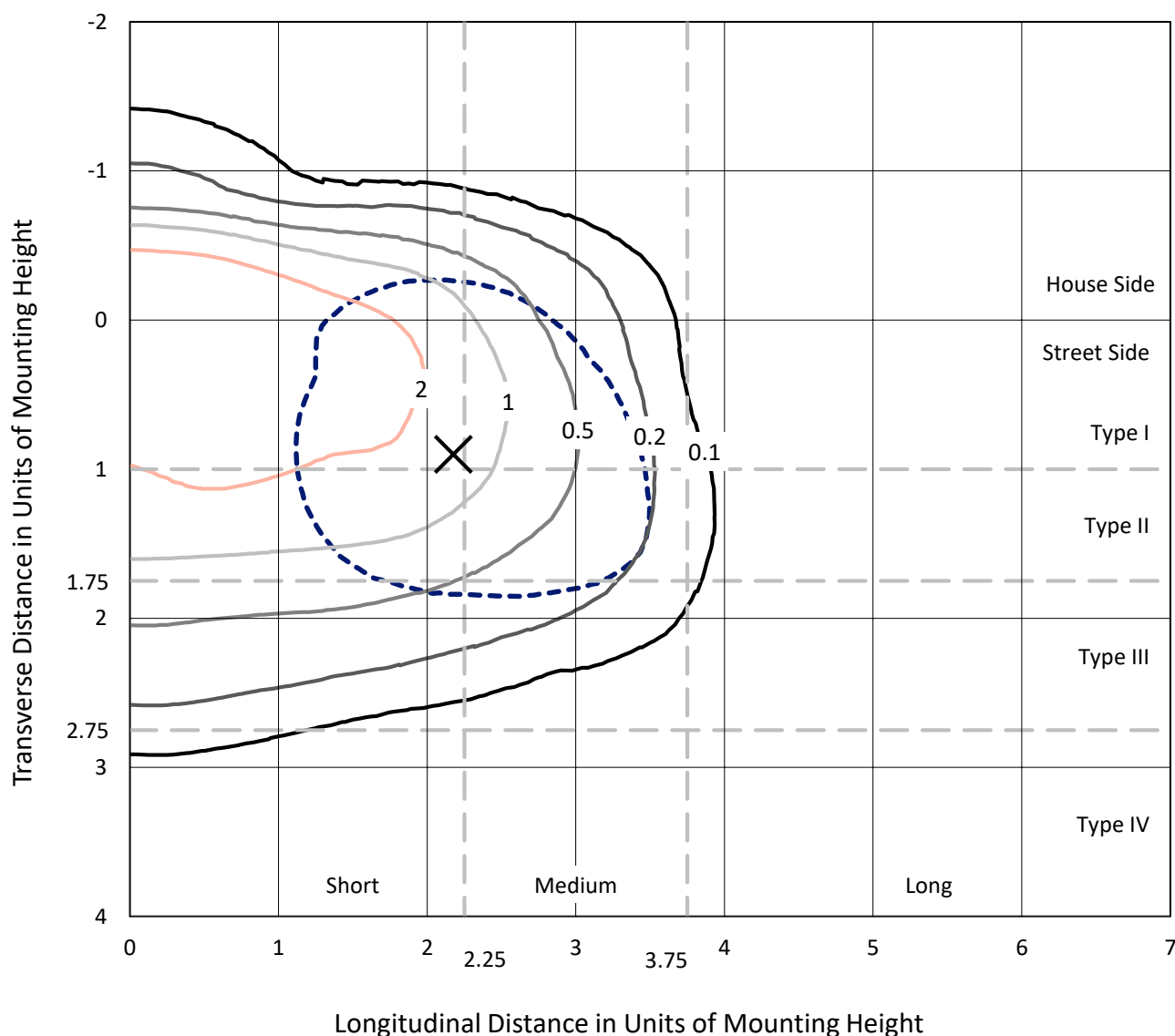
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

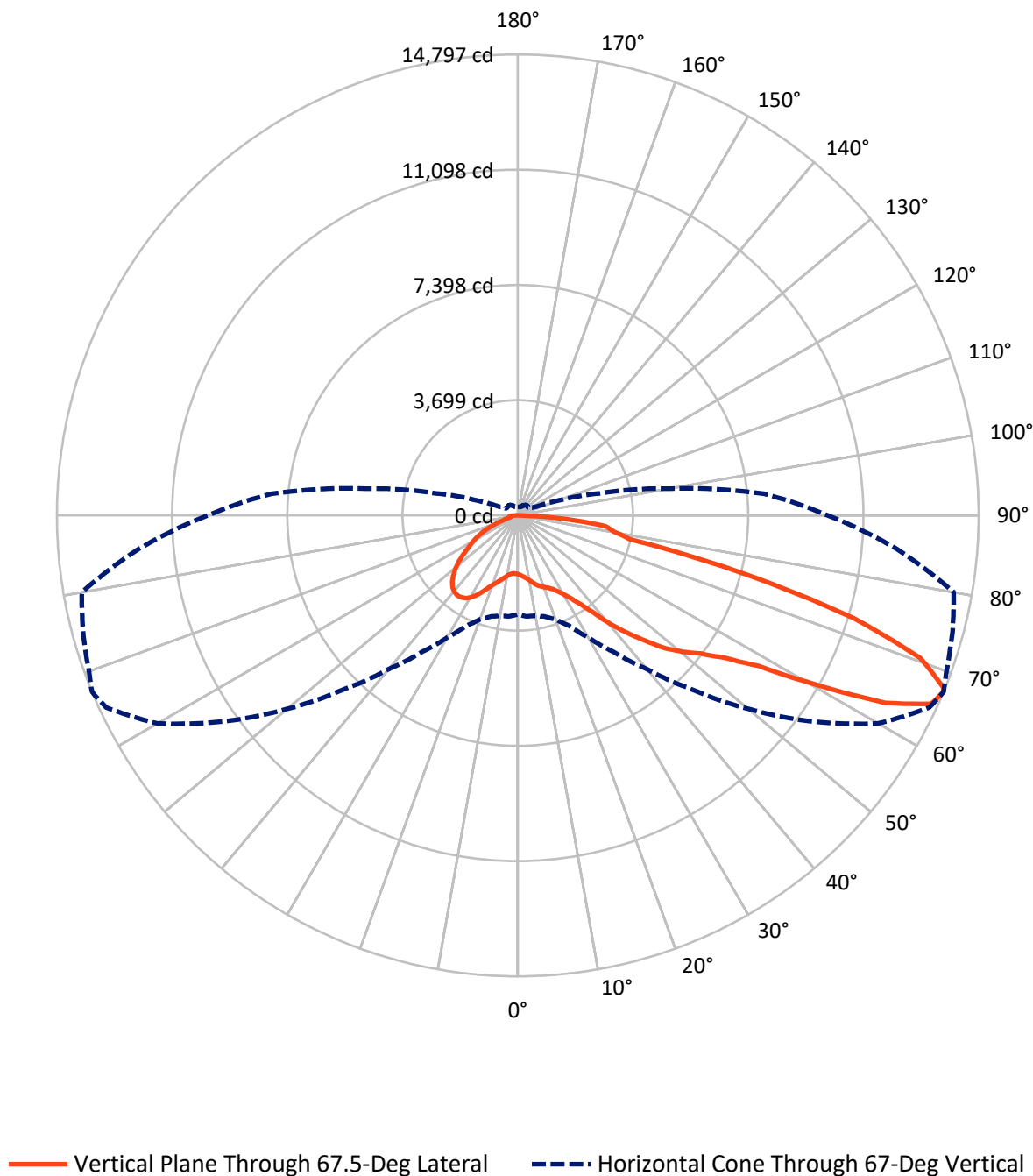


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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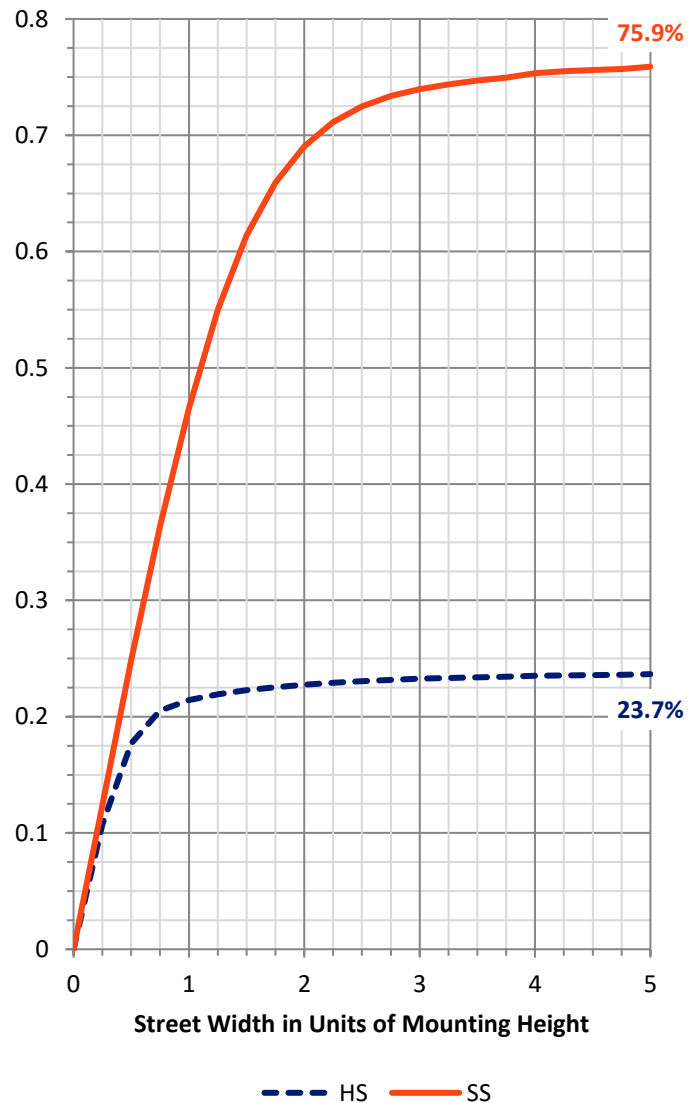
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4182.3	0.0	4182.3
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	13251.2	0.0	13251.2
	% Fixture	76.0	0.0	76.0
Total	Lumens	17433.5	0.0	17433.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.1
10°-20°	639.9	3.7
20°-30°	1142.3	6.6
30°-40°	1674.2	9.6
40°-50°	2586.8	14.8
50°-60°	3766.9	21.6
60°-70°	4907.0	28.1
70°-80°	2196.5	12.6
80°-90°	332.1	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°	17433.5	100.0
0°-180°	17433.5	100.0

Coefficient of Utilization



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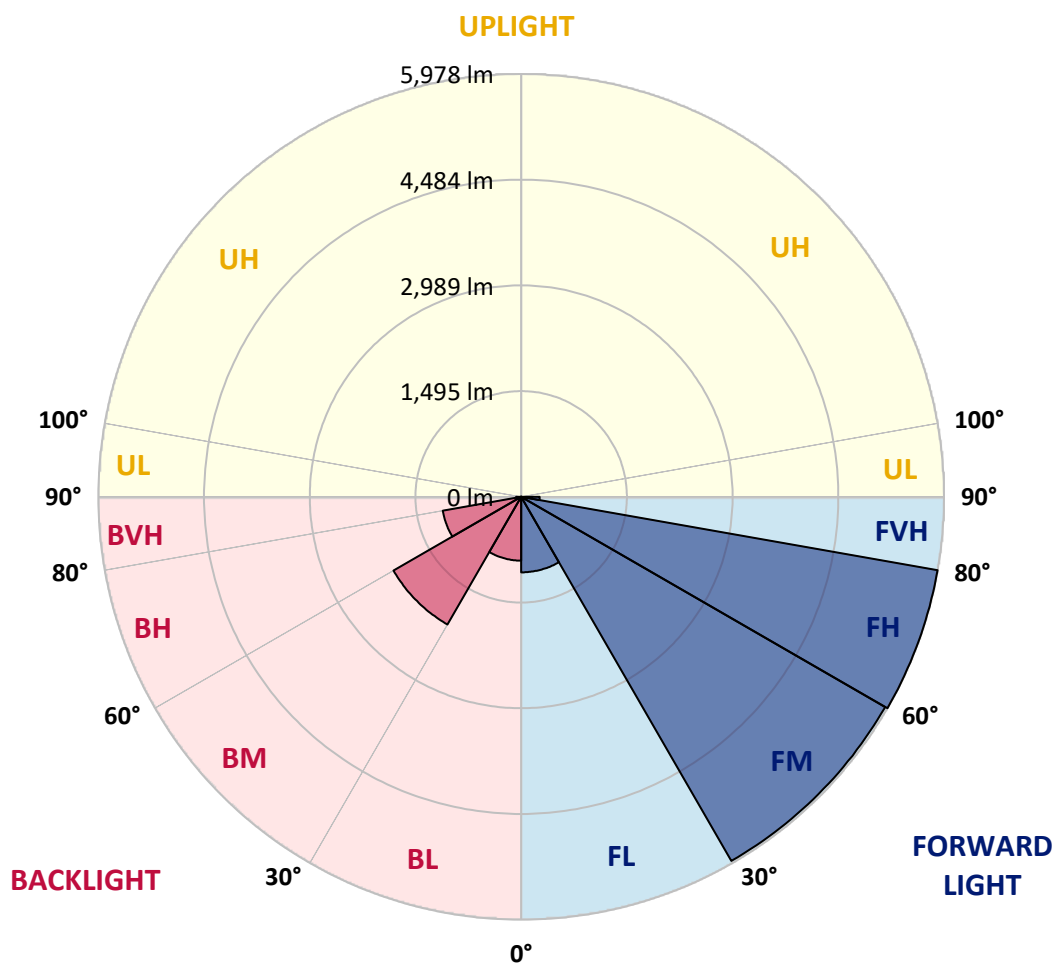
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1068.2	6.1			
FM	(30°-60°)	5943.9	34.1			
FH	(60°-80°)	5978.3	34.3			G3/7500
FVH	(80°-90°)	260.8	1.5			G3/500
BL	(0°-30°)	901.8	5.2	B2/1000		
BM	(30°-60°)	2084.0	12.0	B2/2500		
BH	(60°-80°)	1125.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	71.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1963.6	1968.2	1969.4	1968.2	1969.4	1964.7	1963.6	1956.7	1960.1	1950.9	1948.6
5°	2069.9	2073.4	2075.7	2066.5	2068.8	2064.1	2058.4	2051.4	2042.2	2029.5	2021.4
7.5°	2173.9	2179.7	2178.6	2175.1	2167.0	2162.4	2150.8	2140.4	2124.2	2109.2	2098.8
10°	2313.8	2312.6	2312.6	2293.0	2281.4	2271.0	2250.2	2234.0	2217.9	2195.9	2184.3
12.5°	2475.6	2467.5	2464.0	2450.2	2425.9	2407.4	2377.3	2346.1	2317.2	2294.1	2275.6
15°	2631.6	2631.6	2622.4	2600.4	2577.3	2553.0	2510.3	2465.2	2417.8	2380.8	2362.3
17.5°	2773.8	2761.1	2753.0	2724.1	2699.8	2660.5	2613.1	2564.6	2505.6	2453.6	2417.8
20°	2877.8	2867.4	2850.0	2814.2	2772.6	2726.4	2670.9	2614.3	2550.7	2494.1	2453.6
22.5°	2937.9	2925.2	2898.6	2851.2	2794.6	2729.8	2665.1	2612.0	2554.2	2511.4	2477.9
25°	2969.1	2956.4	2920.5	2858.1	2781.9	2696.3	2622.4	2570.4	2536.8	2526.4	2521.8
27.5°	2967.9	2957.5	2919.4	2847.7	2749.5	2651.3	2571.5	2527.6	2524.1	2564.6	2594.6
30°	2937.9	2930.9	2896.3	2824.6	2721.8	2618.9	2544.9	2521.8	2557.6	2643.2	2717.1
32.5°	2907.8	2904.4	2880.1	2815.4	2727.5	2640.9	2590.0	2592.3	2666.3	2798.0	2917.1
35°	2911.3	2915.9	2912.5	2877.8	2822.3	2777.2	2753.0	2803.8	2919.4	3078.9	3238.4
37.5°	2941.3	2958.7	2980.6	2984.1	2985.3	2978.3	3029.2	3136.7	3305.4	3513.4	3763.1
40°	3007.2	3026.9	3090.4	3145.9	3217.6	3303.1	3406.0	3555.0	3764.2	4020.8	4327.1
42.5°	3211.8	3239.5	3318.1	3421.0	3552.7	3686.8	3840.5	4043.9	4300.5	4570.9	4892.2
45°	3478.8	3536.5	3623.2	3737.6	3935.3	4123.7	4322.4	4550.1	4822.9	5161.5	5485.1
47.5°	3811.6	3869.4	3995.4	4117.9	4351.3	4586.0	4803.2	5041.3	5337.2	5683.9	6042.2
50°	4102.9	4168.7	4280.8	4446.1	4716.6	5004.3	5244.7	5502.5	5750.9	6116.1	6477.9
52.5°	4331.7	4379.1	4486.6	4638.0	4939.6	5255.1	5559.1	5845.7	6140.4	6505.6	6840.8
55°	4360.6	4404.5	4509.7	4683.0	4989.3	5339.5	5689.7	6029.5	6446.7	6845.4	7289.2
57.5°	4235.8	4271.6	4377.9	4532.8	4831.0	5229.7	5672.3	6108.1	6642.0	7180.6	7722.6
60°	4058.9	4094.8	4178.0	4301.6	4570.9	5000.9	5517.5	6113.8	6823.5	7601.3	8398.7
62.5°	3864.8	3896.0	3963.0	4050.9	4287.8	4684.2	5275.9	6075.7	6971.4	8019.6	9249.3
65°	3537.7	3612.8	3641.7	3731.9	3968.8	4343.3	4945.4	5818.0	6911.3	8205.7	9783.3
67°	3176.0	3252.2	3267.3	3358.6	3548.1	3907.5	4520.1	5340.7	6435.1	7884.4	9665.4
67.5°	3060.4	3125.1	3148.2	3239.5	3418.7	3757.3	4338.6	5168.4	6289.5	7708.8	9523.3
70°	2250.2	2321.9	2347.3	2385.4	2513.7	2795.7	3180.6	3900.6	5014.7	6290.7	8033.5
72.5°	1204.3	1262.1	1286.3	1343.0	1408.8	1562.6	1857.3	2373.9	3077.7	4209.2	5715.1
75°	814.8	837.9	855.2	894.5	962.7	1085.2	1214.7	1396.1	1821.4	2375.0	3252.2
77.5°	464.6	475.0	477.3	484.3	538.6	655.3	868.0	1175.4	1507.1	1720.9	2080.3
80°	201.1	221.9	238.1	227.7	224.2	248.5	310.9	463.4	908.4	1442.4	1711.6
82.5°	108.6	117.9	131.8	132.9	139.8	147.9	160.6	190.7	268.1	540.9	1180.0
85°	56.6	58.9	78.6	90.1	95.9	100.5	102.9	114.4	131.8	167.6	293.6
87.5°	8.1	11.6	13.9	18.5	20.8	22.0	25.4	32.4	38.1	46.2	78.6
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1938.2	1935.9	1928.9	1924.3	1919.7	1915.1	1909.3	1904.7	1896.6	1890.8	1883.8
5°	2009.8	1996.0	1986.7	1974.0	1971.7	1956.7	1941.6	1934.7	1920.8	1909.3	1895.4
7.5°	2082.6	2066.5	2051.4	2041.0	2035.2	2014.4	1999.4	1982.1	1965.9	1950.9	1934.7
10°	2168.2	2152.0	2135.8	2128.9	2118.5	2098.8	2086.1	2064.1	2048.0	2029.5	2007.5
12.5°	2257.2	2245.6	2234.0	2224.8	2220.2	2210.9	2192.4	2173.9	2152.0	2133.5	2108.1
15°	2335.7	2327.7	2323.0	2320.7	2320.7	2314.9	2297.6	2280.3	2257.2	2236.3	2208.6
17.5°	2391.2	2387.7	2391.2	2394.7	2399.3	2394.7	2391.2	2371.6	2356.5	2331.1	2303.4
20°	2423.6	2430.5	2447.8	2459.4	2469.8	2477.9	2481.4	2465.2	2445.5	2427.0	2408.6
22.5°	2458.2	2477.9	2507.9	2525.3	2542.6	2571.5	2578.4	2566.9	2551.9	2540.3	2520.7
25°	2516.0	2544.9	2596.9	2624.7	2648.9	2691.7	2697.5	2699.8	2696.3	2687.1	2662.8
27.5°	2606.2	2662.8	2732.2	2768.0	2794.6	2850.0	2872.0	2872.0	2862.8	2873.2	2873.2
30°	2763.4	2838.5	2928.6	2949.4	2991.0	3039.6	3075.4	3080.0	3081.2	3103.1	3135.5
32.5°	3004.9	3076.6	3177.1	3200.2	3236.1	3282.3	3322.7	3318.1	3328.5	3375.9	3418.7
35°	3356.3	3429.1	3494.9	3526.1	3542.3	3583.9	3599.0	3624.4	3655.6	3714.5	3708.8
37.5°	3876.3	3941.1	3950.3	3969.9	3950.3	3958.4	3969.9	4000.0	4083.2	4136.4	4050.9
40°	4502.7	4610.2	4599.8	4576.7	4532.8	4473.8	4494.7	4540.9	4631.0	4584.8	4354.8
42.5°	5093.3	5204.3	5183.5	5156.9	5059.8	5037.8	5035.5	5073.7	5122.2	4990.5	4592.9
45°	5674.7	5787.9	5752.1	5737.1	5672.3	5625.0	5664.3	5666.6	5653.9	5371.9	4800.9
47.5°	6274.5	6378.5	6355.4	6368.1	6301.1	6269.9	6273.3	6257.1	6138.1	5695.5	4962.7
50°	6758.7	6898.6	6912.5	6883.6	6847.7	6800.3	6921.7	6877.8	6613.1	6009.8	5118.7
52.5°	7135.5	7323.9	7395.5	7377.1	7348.2	7353.9	7581.6	7631.3	7193.3	6406.2	5291.0
55°	7581.6	7878.6	7995.4	8064.7	8034.7	8150.2	8671.5	8696.9	8000.0	6924.0	5515.2
57.5°	8225.4	8650.7	9019.4	9117.6	9212.4	9588.0	10434.0	10176.2	9047.1	7707.6	5799.5
60°	9204.3	10135.8	10734.5	11048.8	11270.7	11795.4	12599.8	11946.8	10351.9	8640.3	6156.6
62.5°	10575.0	11936.4	12937.3	13252.8	13344.1	13645.8	14228.3	12978.9	11062.7	9058.7	6187.8
65°	11595.5	13228.5	14427.0	14588.8	14480.2	14486.0	14638.5	12924.6	10798.0	8693.4	5651.5
67°	11528.5	13356.8	14584.2	14796.9	14646.6	14449.0	14210.9	12188.4	9947.4	7928.3	4948.9
67.5°	11425.6	13233.2	14516.0	14740.2	14602.7	14377.3	14029.5	11902.9	9682.7	7690.3	4805.5
70°	9876.9	11671.8	13399.6	13715.1	13772.9	13567.2	12590.6	10036.4	7861.3	6256.0	3731.9
72.5°	7687.9	9286.3	10995.7	11269.6	11491.5	10898.6	9163.8	6932.1	5730.1	4508.5	2702.1
75°	5076.0	6702.1	7564.3	7604.7	7321.6	6223.6	4477.3	3471.8	3195.6	2650.1	1672.3
77.5°	2716.0	3941.1	3965.3	3671.8	3537.7	2637.4	1070.2	590.6	657.6	746.6	665.7
80°	2026.0	2510.3	2909.0	3127.4	3192.1	2261.8	553.6	313.2	273.9	249.6	246.2
82.5°	1827.2	2424.7	2718.3	2837.3	2807.3	1860.7	310.9	210.3	174.5	189.5	216.1
85°	716.6	1294.4	1702.4	1648.1	1384.6	693.4	169.9	113.3	113.3	164.1	212.7
87.5°	146.8	265.8	360.6	344.4	309.7	134.1	83.2	68.2	69.3	132.9	201.1
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°	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1876.9	1870.0	1865.4	1860.7	1856.1	1853.8	1850.3	1850.3	1843.4	1841.1	1838.8
5°	1885.0	1873.4	1865.4	1855.0	1846.9	1839.9	1830.7	1828.4	1820.3	1814.5	1812.2
7.5°	1919.7	1902.3	1885.0	1872.3	1860.7	1845.7	1835.3	1826.1	1818.0	1812.2	1805.3
10°	1985.6	1967.1	1942.8	1919.7	1904.7	1881.5	1865.4	1849.2	1839.9	1833.0	1823.7
12.5°	2082.6	2056.1	2027.2	1999.4	1974.0	1943.9	1927.8	1908.1	1896.6	1890.8	1883.8
15°	2182.0	2153.1	2117.3	2090.7	2061.8	2038.7	2023.7	2006.4	1997.1	1990.2	1985.6
17.5°	2283.7	2250.2	2224.8	2198.2	2184.3	2167.0	2147.4	2125.4	2098.8	2082.6	2060.7
20°	2387.7	2362.3	2347.3	2332.3	2316.1	2291.8	2252.5	2207.5	2157.8	2110.4	2065.3
22.5°	2509.1	2494.1	2491.8	2477.9	2444.4	2386.6	2313.8	2229.4	2145.0	2066.5	2005.2
25°	2680.1	2680.1	2668.6	2612.0	2533.4	2429.4	2306.8	2185.5	2073.4	1965.9	1885.0
27.5°	2895.1	2887.0	2830.4	2713.7	2572.7	2410.9	2246.7	2093.0	1949.7	1831.8	1727.8
30°	3132.0	3075.4	2954.1	2770.3	2558.8	2350.8	2149.7	1971.7	1802.9	1658.5	1536.0
32.5°	3378.2	3240.7	3022.2	2770.3	2510.3	2260.6	2028.3	1809.9	1616.9	1455.1	1309.4
35°	3601.3	3350.5	3038.4	2725.2	2415.5	2127.7	1858.4	1611.1	1379.9	1205.4	1045.9
37.5°	3803.5	3423.3	3021.1	2637.4	2278.0	1940.5	1625.0	1352.2	1091.0	922.3	785.9
40°	3935.3	3438.3	2949.4	2499.9	2081.5	1687.4	1338.3	1033.2	826.4	672.6	581.3
42.5°	4017.3	3409.4	2833.9	2311.5	1816.8	1369.5	1004.3	740.8	587.1	501.6	466.9
45°	4063.6	3334.3	2662.8	2053.7	1496.7	1041.3	713.1	535.1	451.9	421.8	410.3
47.5°	4061.3	3212.9	2449.0	1755.6	1143.0	725.8	505.1	417.2	394.1	384.9	382.5
50°	4037.0	3063.9	2198.2	1432.0	825.2	506.2	399.9	374.5	368.7	362.9	360.6
52.5°	4003.5	2878.9	1920.8	1116.4	586.0	404.5	362.9	356.0	351.3	345.6	343.3
55°	3941.1	2651.3	1620.3	840.2	458.8	365.2	350.2	347.9	342.1	334.0	329.4
57.5°	3864.8	2420.1	1332.6	656.5	405.7	356.0	347.9	344.4	336.3	327.1	317.8
60°	3837.0	2229.4	1107.2	553.6	392.9	359.4	353.7	349.0	337.5	323.6	313.2
62.5°	3663.7	2014.4	945.4	513.1	399.9	374.5	372.1	365.2	347.9	331.7	315.5
65°	3215.3	1703.6	800.9	485.4	413.8	399.9	402.2	391.8	374.5	352.5	323.6
67°	2719.4	1389.2	666.9	458.8	424.2	426.5	434.6	426.5	404.5	373.3	334.0
67.5°	2587.7	1309.4	633.3	450.7	426.5	433.4	442.6	436.9	414.9	379.1	338.6
70°	1923.1	922.3	472.7	408.0	426.5	454.2	475.0	480.8	456.5	406.8	347.9
72.5°	1354.5	595.2	362.9	353.7	387.2	424.2	463.4	483.1	455.4	401.0	335.2
75°	813.6	372.1	294.7	300.5	325.9	364.1	395.3	403.4	368.7	334.0	290.1
77.5°	376.8	247.3	231.1	239.2	263.5	280.8	280.8	264.7	238.1	217.3	208.0
80°	221.9	202.3	201.1	216.1	232.3	219.6	199.9	178.0	164.1	157.2	153.7
82.5°	208.0	216.1	230.0	233.5	220.7	189.5	165.3	143.3	136.4	132.9	129.4
85°	245.0	262.4	239.2	220.7	195.3	159.5	129.4	111.0	107.5	104.0	99.4
87.5°	226.5	216.1	188.4	161.8	134.1	97.1	70.5	63.6	68.2	67.0	64.7
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°	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1839.9	1839.9	1835.3	1833.0	1838.8
5°	1807.6	1808.7	1805.3	1804.1	1805.3
7.5°	1800.6	1799.5	1797.2	1794.9	1797.2
10°	1821.4	1820.3	1816.8	1819.1	1815.7
12.5°	1883.8	1890.8	1889.6	1891.9	1896.6
15°	1985.6	1984.4	1980.9	1983.2	1986.7
17.5°	2043.3	2034.1	2026.0	2022.5	2022.5
20°	2029.5	2002.9	1989.0	1980.9	1978.6
22.5°	1947.4	1909.3	1880.4	1873.4	1867.7
25°	1813.3	1766.0	1729.0	1720.9	1705.9
27.5°	1657.3	1593.8	1549.8	1540.6	1532.5
30°	1452.8	1379.9	1329.1	1296.7	1307.1
32.5°	1203.1	1133.8	1074.8	1022.8	1014.7
35°	929.2	852.9	800.9	777.8	762.8
37.5°	693.4	629.9	595.2	573.2	574.4
40°	530.5	497.0	478.5	463.4	464.6
42.5°	442.6	427.6	423.0	416.1	412.6
45°	401.0	396.4	397.6	390.6	388.3
47.5°	377.9	374.5	375.6	371.0	369.8
50°	359.4	357.1	358.3	354.8	353.7
52.5°	340.9	342.1	340.9	338.6	338.6
55°	324.8	323.6	325.9	322.5	322.5
57.5°	312.0	310.9	310.9	309.7	309.7
60°	305.1	300.5	299.3	299.3	300.5
62.5°	301.6	293.6	292.4	292.4	293.6
65°	302.8	290.1	285.5	284.3	283.2
67°	304.0	285.5	276.2	271.6	270.4
67.5°	305.1	283.2	272.8	268.1	265.8
70°	298.2	267.0	252.0	243.9	241.5
72.5°	280.8	247.3	228.8	218.4	216.1
75°	249.6	224.2	208.0	196.5	191.9
77.5°	193.0	181.5	175.7	168.7	166.4
80°	150.2	144.5	142.2	137.5	136.4
82.5°	124.8	119.0	115.6	109.8	106.3
85°	97.1	90.1	87.8	83.2	80.9
87.5°	63.6	60.1	58.9	53.2	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)