

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: P159583

Luminaire Tested: **VST-F08-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159583
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-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17047 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



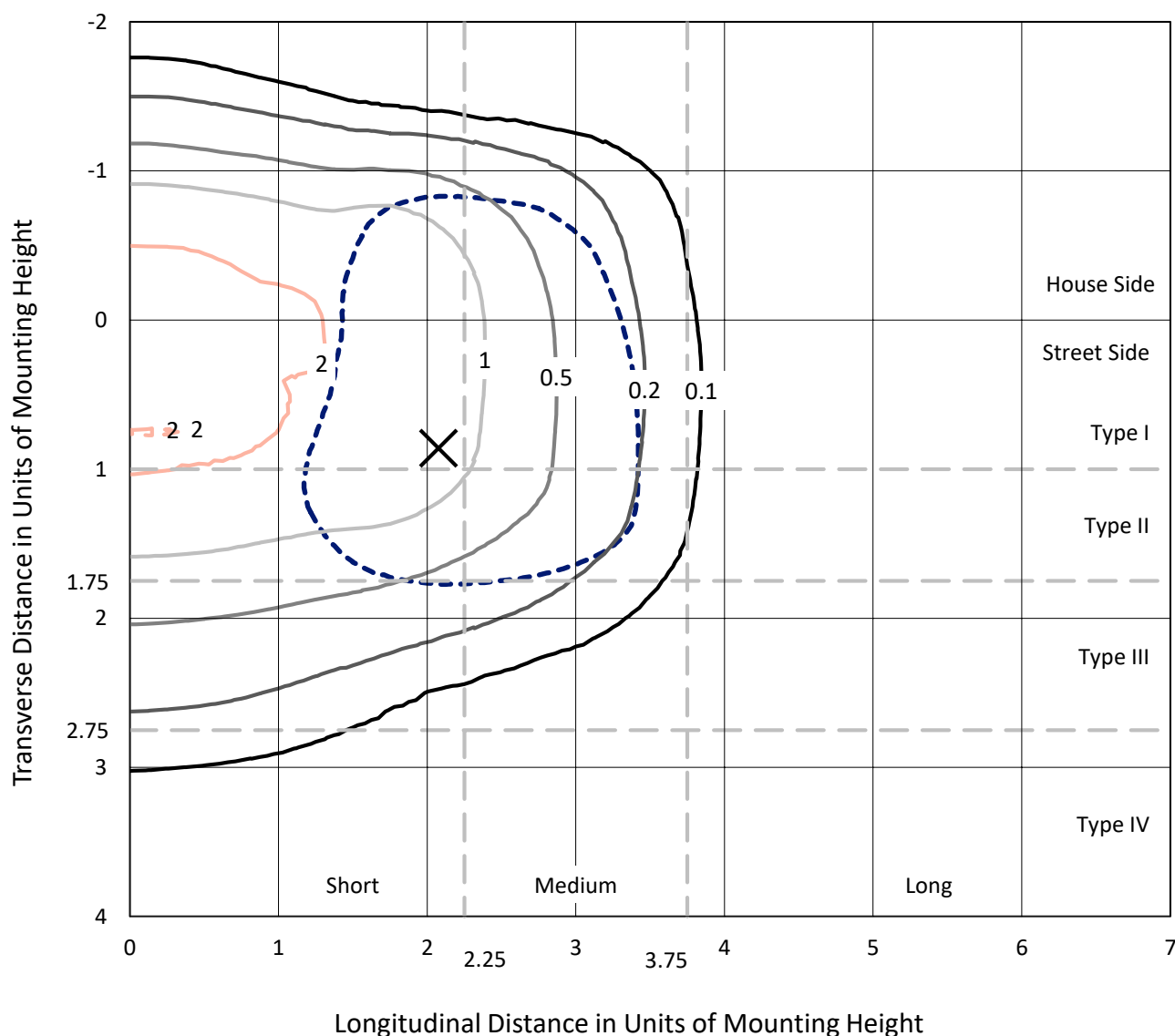
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

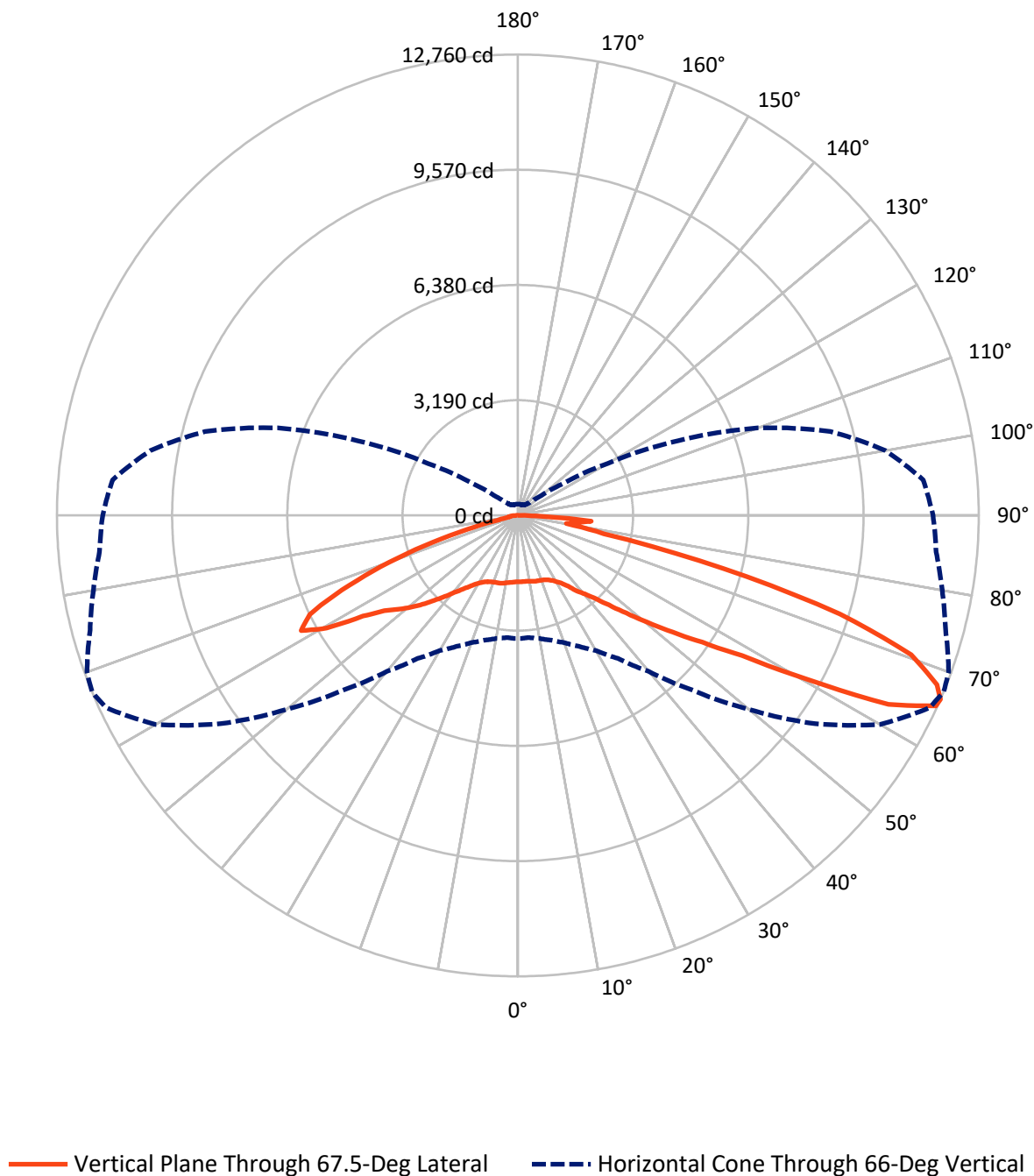


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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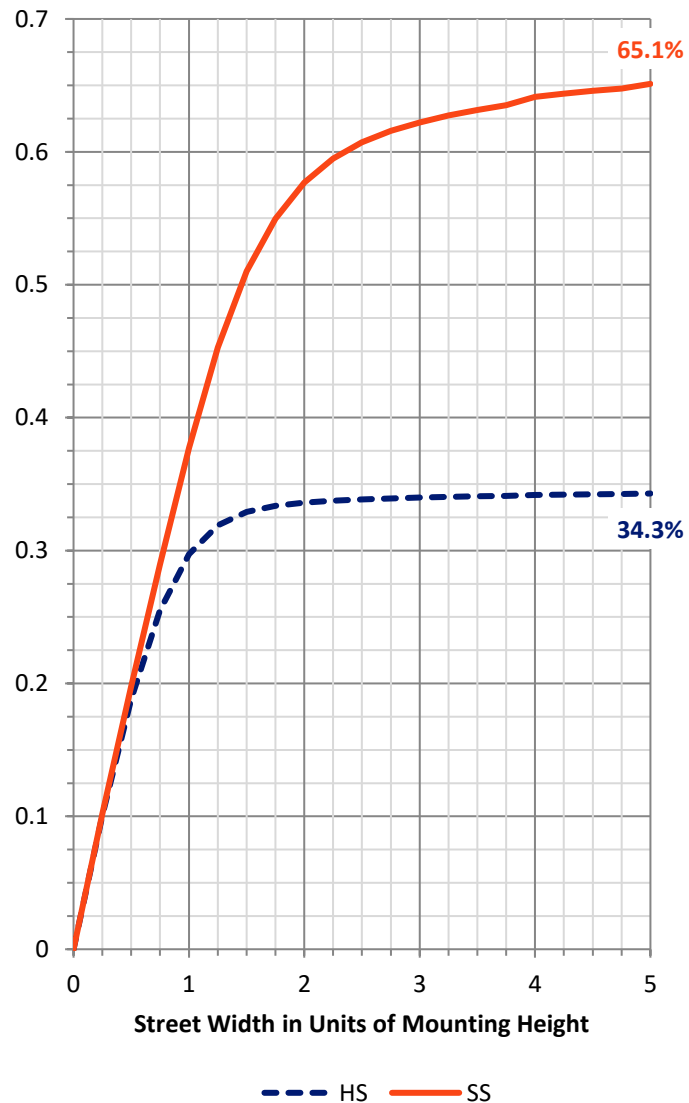
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5899.0	0.0	5899.0
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	11148.0	0.0	11148.0
	% Fixture	65.4	0.0	65.4
Total	Lumens	17047.0	0.0	17047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.0
10°-20°	522.7	3.1
20°-30°	898.5	5.3
30°-40°	1452.1	8.5
40°-50°	2406.4	14.1
50°-60°	3776.7	22.2
60°-70°	5163.4	30.3
70°-80°	2270.7	13.3
80°-90°	380.1	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°	17047.0	100.0
0°-180°	17047.0	100.0

Coefficient of Utilization



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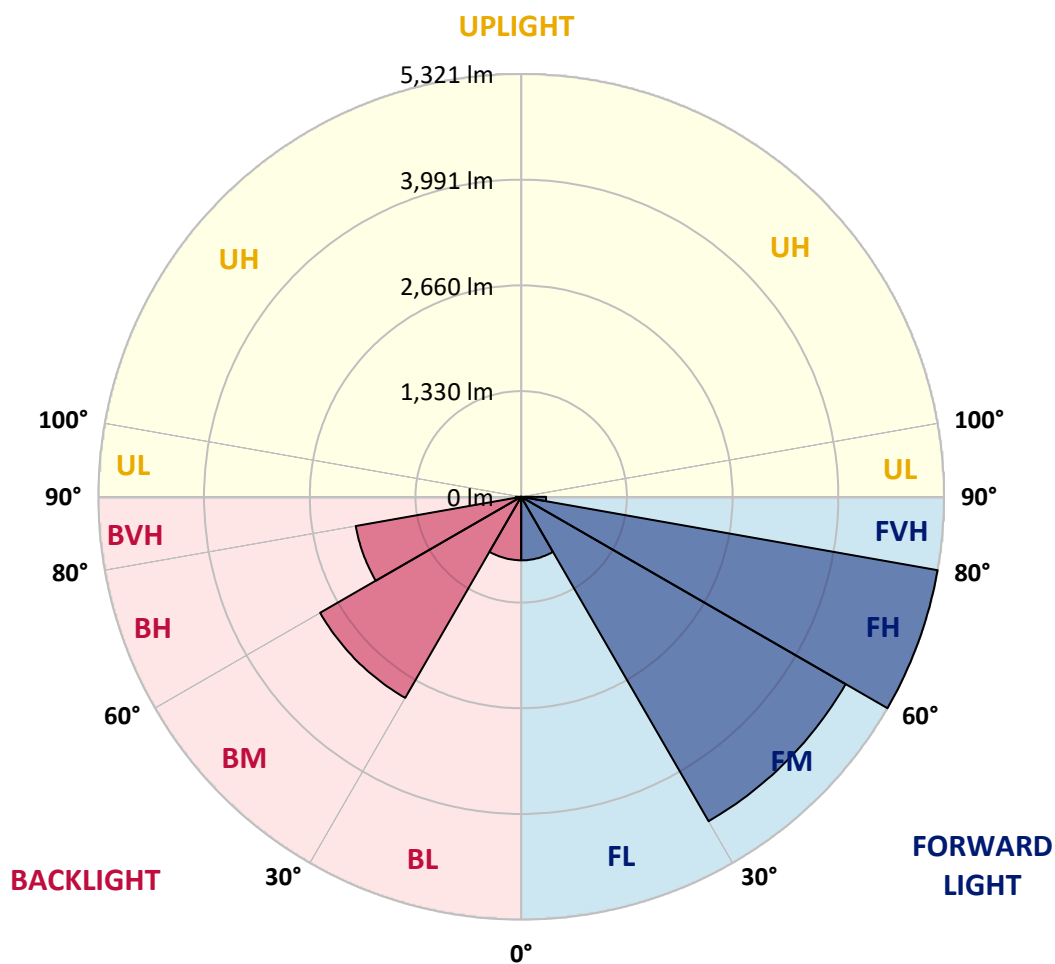
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.6	4.7			
FM	(30°-60°)	4714.0	27.7			
FH	(60°-80°)	5320.7	31.2			G3/7500
FVH	(80°-90°)	313.6	1.8			G3/500
BL	(0°-30°)	798.0	4.7	B2/1000		
BM	(30°-60°)	2921.2	17.1	B3/5000		
BH	(60°-80°)	2113.4	12.4	B3/2500		G3/2500
BVH	(80°-90°)	66.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1836.0	1836.0	1837.2	1836.0	1836.0	1834.9	1839.4	1839.4	1839.4	1838.3	1841.6
5°	1831.6	1831.6	1832.7	1832.7	1833.8	1832.7	1836.0	1837.2	1837.2	1837.2	1840.5
7.5°	1820.4	1823.8	1821.5	1822.7	1823.8	1827.1	1831.6	1833.8	1836.0	1839.4	1840.5
10°	1797.0	1802.6	1801.5	1804.8	1805.9	1816.0	1819.3	1823.8	1831.6	1836.0	1839.4
12.5°	1764.7	1768.0	1769.2	1773.6	1778.1	1790.3	1799.2	1807.1	1818.2	1829.3	1840.5
15°	1739.1	1741.3	1741.3	1745.7	1752.4	1763.6	1774.7	1788.1	1804.8	1823.8	1841.6
17.5°	1746.9	1752.4	1748.0	1746.9	1749.1	1755.8	1765.8	1777.0	1797.0	1818.2	1839.4
20°	1798.1	1799.2	1797.0	1791.4	1787.0	1788.1	1788.1	1790.3	1802.6	1819.3	1836.0
22.5°	1840.5	1845.0	1843.8	1845.0	1843.8	1848.3	1846.1	1841.6	1837.2	1838.3	1846.1
25°	1877.3	1881.7	1881.7	1885.1	1890.7	1899.6	1906.3	1905.2	1898.5	1889.5	1886.2
27.5°	1937.5	1937.5	1937.5	1940.8	1948.6	1959.8	1970.9	1977.6	1983.2	1974.3	1955.3
30°	2032.2	2033.4	2030.0	2031.1	2036.7	2051.2	2064.6	2074.6	2085.7	2084.6	2060.1
32.5°	2135.9	2140.4	2139.3	2143.7	2151.5	2164.9	2179.4	2195.0	2209.5	2218.4	2202.8
35°	2269.7	2274.1	2275.3	2281.9	2290.9	2310.9	2331.0	2351.1	2366.7	2373.4	2370.0
37.5°	2489.3	2490.4	2486.0	2475.9	2479.3	2494.9	2518.3	2550.6	2560.6	2567.3	2582.9
40°	2818.2	2814.8	2797.0	2788.1	2782.5	2789.2	2784.7	2810.4	2833.8	2834.9	2833.8
42.5°	3217.2	3207.2	3190.5	3188.3	3186.0	3183.8	3171.5	3172.7	3193.8	3199.4	3192.7
45°	3614.1	3601.8	3589.6	3600.7	3587.4	3621.9	3631.9	3658.7	3662.0	3673.2	3656.5
47.5°	3939.6	3940.7	3940.7	3956.3	3983.1	4048.9	4108.0	4159.2	4178.2	4204.9	4208.3
50°	4186.0	4192.7	4213.9	4264.0	4320.9	4431.2	4530.5	4623.0	4706.6	4737.8	4820.3
52.5°	4329.8	4347.6	4392.2	4475.8	4577.3	4720.0	4876.0	5033.2	5178.1	5300.8	5398.9
55°	4304.2	4317.5	4395.6	4526.0	4684.3	4876.0	5094.5	5321.9	5548.2	5755.6	5916.1
57.5°	4139.2	4148.1	4226.1	4373.3	4570.6	4828.1	5136.9	5474.7	5792.4	6126.8	6401.0
60°	3922.9	3936.3	4008.7	4124.7	4330.9	4605.1	4963.0	5421.2	5928.4	6454.6	6967.4
62.5°	3784.7	3781.3	3844.9	3948.5	4103.5	4352.1	4696.6	5239.5	5941.8	6831.4	7844.7
65°	3555.0	3545.0	3610.8	3728.9	3897.3	4138.1	4464.7	4986.4	5801.3	6974.0	8411.0
66°	3412.3	3392.3	3458.0	3577.3	3745.7	4002.0	4315.3	4830.3	5630.7	6834.7	8350.8
67.5°	3162.6	3152.6	3183.8	3277.4	3402.3	3643.1	3969.7	4488.1	5227.2	6415.5	7909.3
70°	2570.7	2548.4	2572.9	2615.3	2663.2	2722.3	2922.9	3334.3	3959.7	5111.3	6372.1
72.5°	1751.3	1740.2	1785.9	1850.5	1978.7	2038.9	2118.1	2185.0	2405.7	3221.7	4444.6
75°	1332.2	1338.8	1396.8	1503.8	1668.8	1847.2	2021.1	2084.6	2011.1	1947.5	2522.7
77.5°	746.9	785.9	856.1	992.2	1167.2	1419.1	1722.3	2056.8	2224.0	2182.7	2041.2
80°	307.7	302.1	336.7	411.4	471.6	677.8	1036.7	1455.9	1926.3	2224.0	2177.2
82.5°	85.8	88.1	113.7	146.0	188.4	239.7	374.6	602.0	981.0	1526.1	1997.7
85°	26.8	26.8	36.8	54.6	64.7	74.7	94.8	156.1	266.4	531.7	1078.0
87.5°	5.6	5.6	7.8	15.6	16.7	16.7	21.2	29.0	25.6	23.4	104.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1838.3	1836.0	1837.2	1838.3	1837.2	1837.2	1836.0	1834.9	1836.0	1836.0	1839.4
5°	1837.2	1836.0	1837.2	1837.2	1837.2	1838.3	1838.3	1838.3	1841.6	1841.6	1847.2
7.5°	1839.4	1839.4	1841.6	1841.6	1841.6	1841.6	1842.7	1845.0	1850.5	1849.4	1859.4
10°	1843.8	1846.1	1851.6	1852.8	1852.8	1856.1	1858.3	1862.8	1868.4	1870.6	1879.5
12.5°	1849.4	1860.6	1870.6	1872.8	1876.2	1881.7	1885.1	1887.3	1897.4	1900.7	1911.8
15°	1856.1	1871.7	1884.0	1888.4	1892.9	1899.6	1904.0	1907.4	1916.3	1920.8	1934.1
17.5°	1857.2	1875.1	1889.5	1896.2	1901.8	1909.6	1916.3	1923.0	1933.0	1939.7	1953.1
20°	1856.1	1879.5	1901.8	1910.7	1916.3	1930.8	1940.8	1949.7	1962.0	1968.7	1982.1
22.5°	1868.4	1895.1	1925.2	1936.4	1945.3	1965.4	1978.7	1993.2	2008.8	2013.3	2023.3
25°	1897.4	1925.2	1963.1	1978.7	1994.3	2021.1	2040.0	2061.2	2076.8	2079.1	2082.4
27.5°	1946.4	1972.0	2017.7	2041.2	2066.8	2104.7	2132.6	2153.7	2176.0	2176.0	2173.8
30°	2045.6	2051.2	2099.1	2129.2	2167.1	2222.9	2264.1	2287.5	2304.2	2304.2	2285.3
32.5°	2173.8	2167.1	2210.6	2242.9	2295.3	2373.4	2429.1	2446.9	2464.8	2459.2	2426.9
35°	2358.9	2339.9	2364.4	2413.5	2472.6	2579.6	2637.6	2677.7	2688.8	2673.2	2622.0
37.5°	2591.9	2589.6	2601.9	2656.5	2722.3	2860.5	2919.6	2945.2	2936.3	2908.5	2818.2
40°	2838.2	2831.5	2823.7	2860.5	2934.1	3100.2	3205.0	3218.4	3206.1	3164.9	3051.1
42.5°	3167.1	3167.1	3130.3	3140.3	3201.6	3387.8	3511.5	3553.9	3555.0	3494.8	3343.2
45°	3619.7	3615.2	3550.6	3535.0	3581.8	3764.6	3924.0	3947.4	3947.4	3868.3	3702.2
47.5°	4163.7	4158.1	4094.6	4040.0	4048.9	4246.2	4378.8	4414.5	4383.3	4324.2	4126.9
50°	4776.8	4766.8	4702.1	4650.8	4628.6	4828.1	4940.7	4957.4	4911.7	4841.5	4627.4
52.5°	5398.9	5429.0	5391.1	5363.2	5371.0	5500.3	5616.2	5537.1	5513.7	5437.9	5222.7
55°	6046.5	6139.1	6222.7	6198.2	6227.1	6353.1	6375.4	6270.6	6228.3	6173.6	5934.0
57.5°	6698.7	6968.5	7242.7	7319.6	7391.0	7571.6	7545.9	7374.2	7406.6	7488.0	7218.2
60°	7609.5	8388.7	9084.3	9212.5	9434.4	9588.2	9622.8	9589.3	9739.8	9697.4	9458.9
62.5°	9008.5	10307.2	11274.9	11515.6	11738.6	11730.8	11613.7	11493.3	11641.6	11641.6	11018.5
65°	10007.4	11481.1	12516.7	12716.3	12707.3	12438.7	12162.2	11921.4	11900.2	11735.3	10824.5
66°	10054.2	11571.4	12585.8	12759.7	12692.8	12260.3	11929.2	11623.8	11493.3	11263.7	10330.6
67.5°	9632.8	11316.1	12360.6	12512.3	12336.1	11716.3	11260.4	10851.2	10661.7	10274.9	9396.5
70°	7901.5	9725.3	11244.8	11554.7	11355.1	10570.3	9946.0	9393.1	9030.8	8472.3	7839.1
72.5°	5767.9	7180.3	8825.7	9329.6	9298.4	8576.0	8073.2	7567.1	7091.1	6582.8	6120.1
75°	3749.0	4670.9	5588.4	5882.7	5741.1	5323.1	4963.0	4667.6	4216.1	3862.7	3776.9
77.5°	2140.4	2615.3	2473.7	2436.9	2259.7	1823.8	1212.9	850.6	768.1	958.7	1051.2
80°	2036.7	1846.1	1511.6	1363.4	1253.0	853.9	448.1	315.5	276.5	283.2	304.3
82.5°	2296.4	2393.4	1957.5	1635.4	1423.6	1039.0	567.4	264.2	192.9	228.5	256.4
85°	1721.2	2423.5	2402.3	2035.6	1669.9	1197.3	671.1	201.8	115.9	160.5	209.6
87.5°	348.9	574.1	552.9	486.0	413.6	288.7	112.6	63.5	58.0	79.1	120.4
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°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1841.6	1841.6	1843.8	1847.2	1848.3	1848.3	1850.5	1848.3	1852.8	1853.9	1855.0
5°	1851.6	1855.0	1857.2	1862.8	1866.1	1868.4	1871.7	1869.5	1873.9	1875.1	1877.3
7.5°	1862.8	1868.4	1872.8	1875.1	1879.5	1879.5	1880.6	1878.4	1877.3	1873.9	1872.8
10°	1882.9	1886.2	1891.8	1889.5	1887.3	1879.5	1872.8	1862.8	1857.2	1847.2	1841.6
12.5°	1915.2	1917.4	1917.4	1907.4	1892.9	1875.1	1858.3	1841.6	1828.2	1817.1	1810.4
15°	1937.5	1941.9	1936.4	1921.9	1900.7	1876.2	1853.9	1831.6	1813.7	1799.2	1790.3
17.5°	1954.2	1953.1	1943.1	1923.0	1902.9	1881.7	1861.7	1838.3	1816.0	1794.8	1781.4
20°	1979.8	1968.7	1950.9	1929.7	1908.5	1890.7	1875.1	1852.8	1829.3	1800.4	1780.3
22.5°	2014.4	1994.3	1968.7	1946.4	1926.3	1909.6	1891.8	1872.8	1848.3	1816.0	1788.1
25°	2063.5	2028.9	1999.9	1977.6	1959.8	1940.8	1920.8	1896.2	1871.7	1838.3	1804.8
27.5°	2138.1	2086.9	2050.1	2030.0	2013.3	1987.6	1962.0	1933.0	1901.8	1867.3	1829.3
30°	2228.4	2167.1	2124.8	2106.9	2086.9	2057.9	2030.0	1989.9	1946.4	1905.2	1858.3
32.5°	2334.3	2271.9	2229.6	2216.2	2183.8	2150.4	2111.4	2057.9	2001.0	1939.7	1884.0
35°	2494.9	2415.7	2376.7	2345.5	2300.9	2260.8	2195.0	2124.8	2043.4	1962.0	1892.9
37.5°	2659.9	2579.6	2539.5	2496.0	2438.0	2364.4	2276.4	2176.0	2067.9	1967.6	1882.9
40°	2880.6	2793.6	2742.4	2675.5	2581.8	2467.0	2336.6	2199.5	2067.9	1943.1	1840.5
42.5°	3138.1	3057.8	2978.7	2868.3	2717.8	2550.6	2367.8	2191.7	2032.2	1888.4	1780.3
45°	3494.8	3357.7	3231.7	3054.5	2834.9	2599.7	2371.1	2154.9	1970.9	1811.5	1691.1
47.5°	3896.1	3718.9	3495.9	3218.4	2918.5	2618.6	2338.8	2085.7	1873.9	1701.1	1569.6
50°	4358.8	4086.8	3744.5	3348.8	2960.8	2593.0	2261.9	1969.8	1740.2	1541.7	1401.3
52.5°	4888.3	4473.6	3969.7	3441.3	2954.2	2514.9	2134.8	1817.1	1560.7	1350.0	1211.8
55°	5475.8	4895.0	4184.9	3500.4	2894.0	2363.3	1935.3	1601.9	1337.7	1130.4	1008.9
57.5°	6511.4	5634.1	4595.1	3579.5	2768.0	2133.7	1682.2	1329.9	1091.4	915.2	799.3
60°	8435.5	6926.1	5372.1	3765.7	2578.5	1846.1	1363.4	1043.4	843.9	715.7	629.8
62.5°	9626.1	7835.8	5751.1	3739.0	2270.8	1452.6	1012.2	773.7	616.5	531.7	478.2
65°	9344.1	7479.0	5288.5	3211.7	1766.9	1030.1	670.0	506.1	423.6	380.1	354.5
66°	8960.6	7079.9	4897.2	2876.1	1539.5	860.6	552.9	424.7	364.5	332.2	318.8
67.5°	8156.8	6350.9	4223.9	2303.1	1153.8	641.0	408.0	333.3	296.5	279.8	270.9
70°	6826.9	5116.8	2987.6	1360.0	625.4	347.8	260.9	231.9	223.0	217.4	214.0
72.5°	5278.5	3704.4	1745.7	668.9	315.5	225.2	198.4	186.2	182.8	182.8	183.9
75°	3325.4	2129.2	781.5	322.2	214.0	181.7	169.4	163.9	165.0	166.1	165.0
77.5°	1104.7	734.6	325.5	228.5	186.2	165.0	155.0	152.7	155.0	156.1	156.1
80°	317.7	277.6	235.2	201.8	170.6	153.8	144.9	143.8	149.4	150.5	148.3
82.5°	244.1	228.5	212.9	195.1	163.9	144.9	141.6	142.7	146.0	143.8	133.8
85°	224.1	221.8	159.4	158.3	142.7	138.2	134.9	136.0	132.7	120.4	109.2
87.5°	126.0	117.1	90.3	91.4	105.9	109.2	90.3	95.9	89.2	78.0	71.3
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°	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1857.2	1856.1	1856.1	1859.4	1855.0
5°	1878.4	1877.3	1877.3	1880.6	1877.3
7.5°	1868.4	1865.0	1862.8	1861.7	1861.7
10°	1834.9	1831.6	1824.9	1822.7	1820.4
12.5°	1800.4	1797.0	1789.2	1789.2	1787.0
15°	1779.2	1774.7	1769.2	1765.8	1763.6
17.5°	1768.0	1761.3	1754.7	1751.3	1749.1
20°	1763.6	1754.7	1746.9	1741.3	1741.3
22.5°	1764.7	1753.5	1744.6	1737.9	1735.7
25°	1775.8	1759.1	1748.0	1741.3	1739.1
27.5°	1791.4	1771.4	1756.9	1748.0	1744.6
30°	1812.6	1784.8	1764.7	1753.5	1749.1
32.5°	1827.1	1788.1	1762.5	1746.9	1741.3
35°	1826.0	1775.8	1744.6	1724.6	1717.9
37.5°	1805.9	1746.9	1705.6	1681.1	1669.9
40°	1761.3	1693.3	1649.9	1626.5	1613.1
42.5°	1696.7	1623.1	1584.1	1558.5	1544.0
45°	1595.2	1522.8	1474.8	1454.8	1435.8
47.5°	1454.8	1381.2	1340.0	1311.0	1298.7
50°	1289.8	1216.2	1172.7	1149.3	1138.2
52.5°	1109.2	1039.0	1007.8	985.5	969.9
55°	921.9	857.3	843.9	819.4	804.9
57.5°	745.8	707.9	695.6	671.1	658.8
60°	583.0	570.8	557.4	541.8	535.1
62.5°	451.5	440.3	437.0	427.0	425.8
65°	344.5	345.6	343.4	341.1	338.9
66°	313.3	312.1	313.3	311.0	309.9
67.5°	266.4	270.9	274.2	273.1	273.1
70°	216.3	219.6	224.1	223.0	223.0
72.5°	185.1	190.6	192.9	191.7	191.7
75°	167.2	172.8	172.8	170.6	169.4
77.5°	156.1	158.3	156.1	153.8	151.6
80°	144.9	142.7	139.3	136.0	133.8
82.5°	126.0	120.4	117.1	111.5	111.5
85°	101.4	97.0	89.2	83.6	78.0
87.5°	65.8	63.5	58.0	43.5	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)