

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: P159784

Luminaire Tested: **VST-F06-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159784
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13464.9 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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



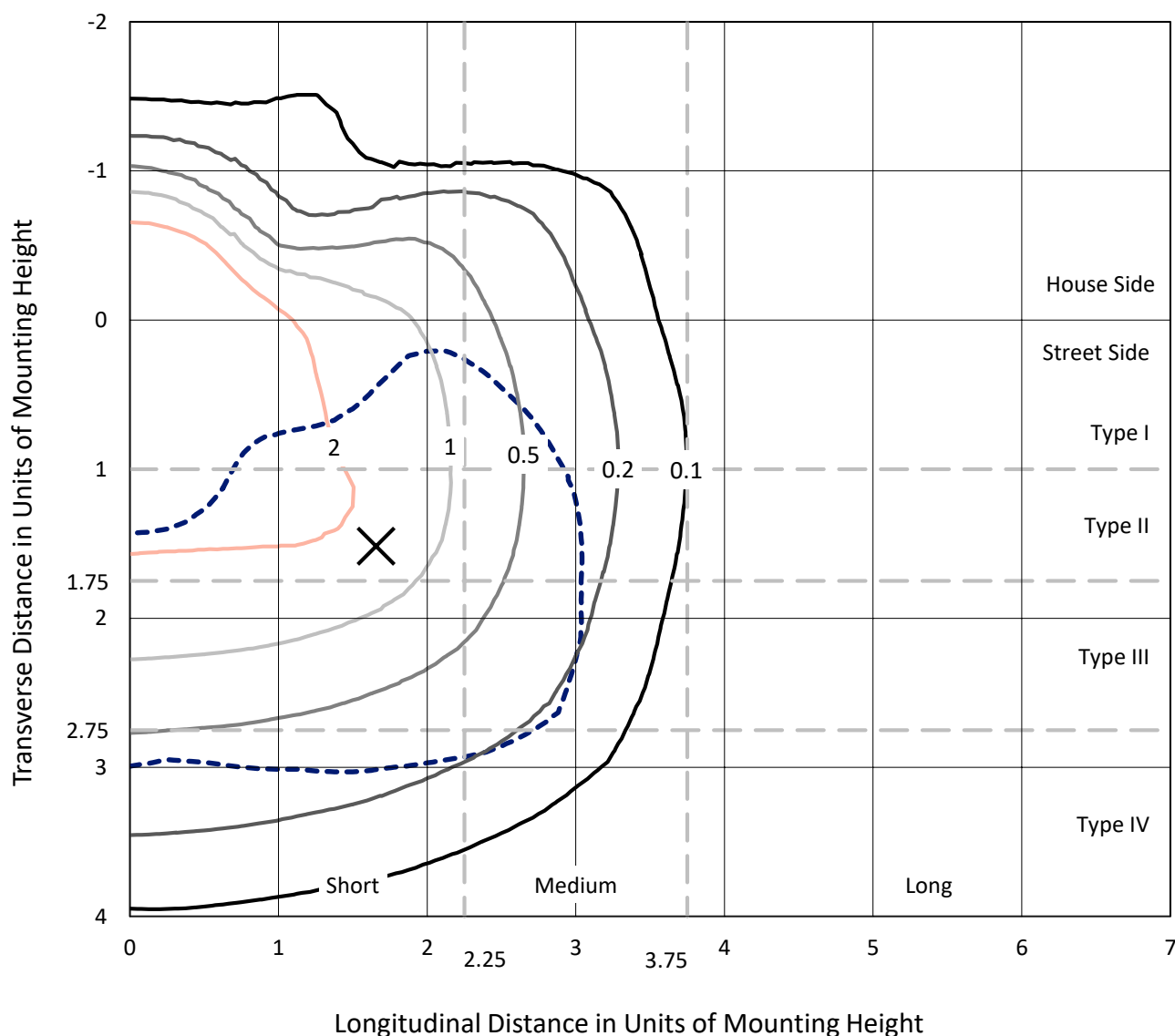
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

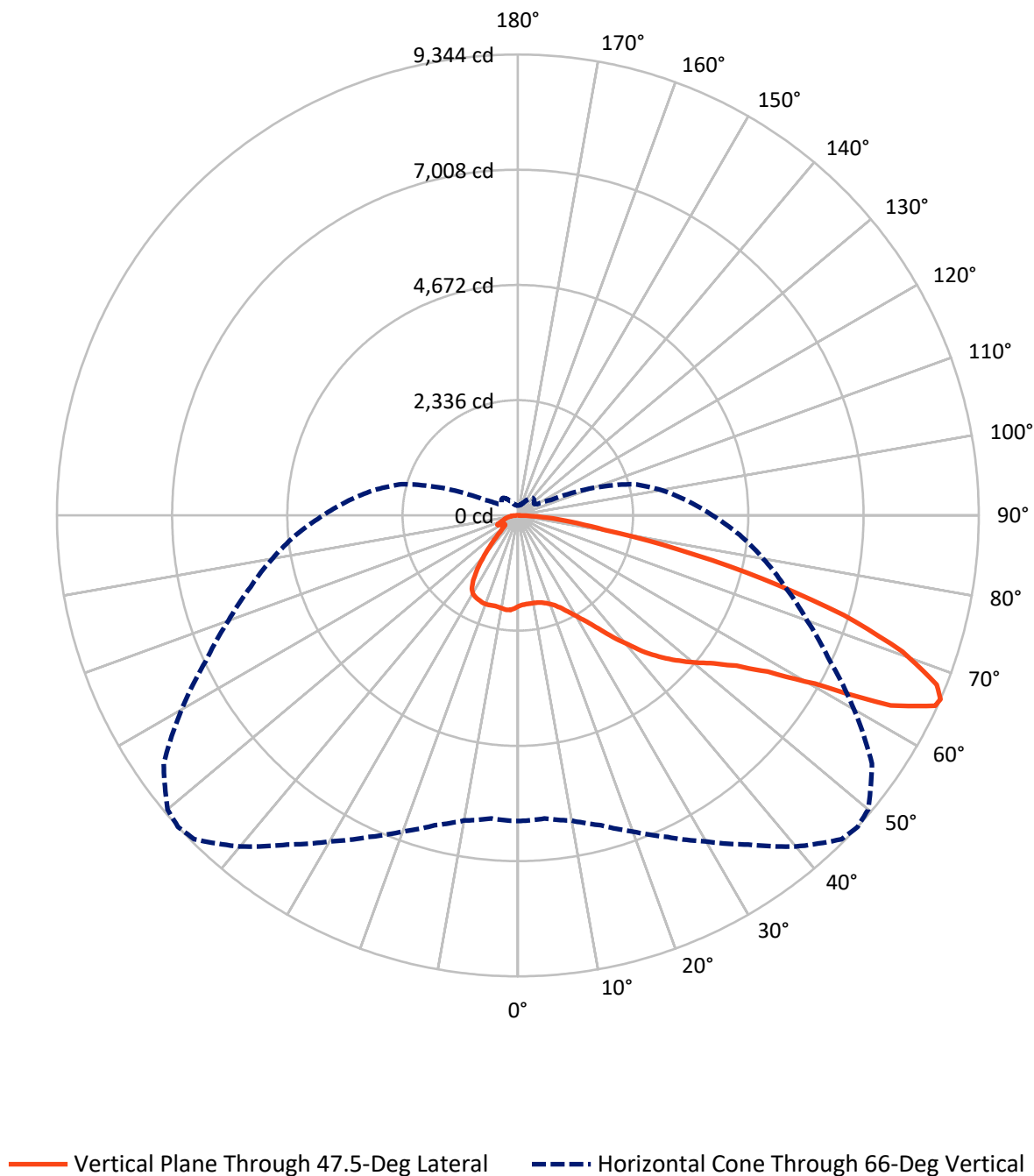


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2787.8	0.0	2787.8
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	10677.1	0.0	10677.1
	% Fixture	79.3	0.0	79.3
Total	Lumens	13464.9	0.0	13464.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.3
10°-20°	532.4	4.0
20°-30°	908.5	6.7
30°-40°	1371.2	10.2
40°-50°	1782.2	13.2
50°-60°	2445.1	18.2
60°-70°	3761.3	27.9
70°-80°	2174.3	16.1
80°-90°	312.3	2.3
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°	13464.9	100.0
0°-180°	13464.9	100.0

Coefficient of Utilization



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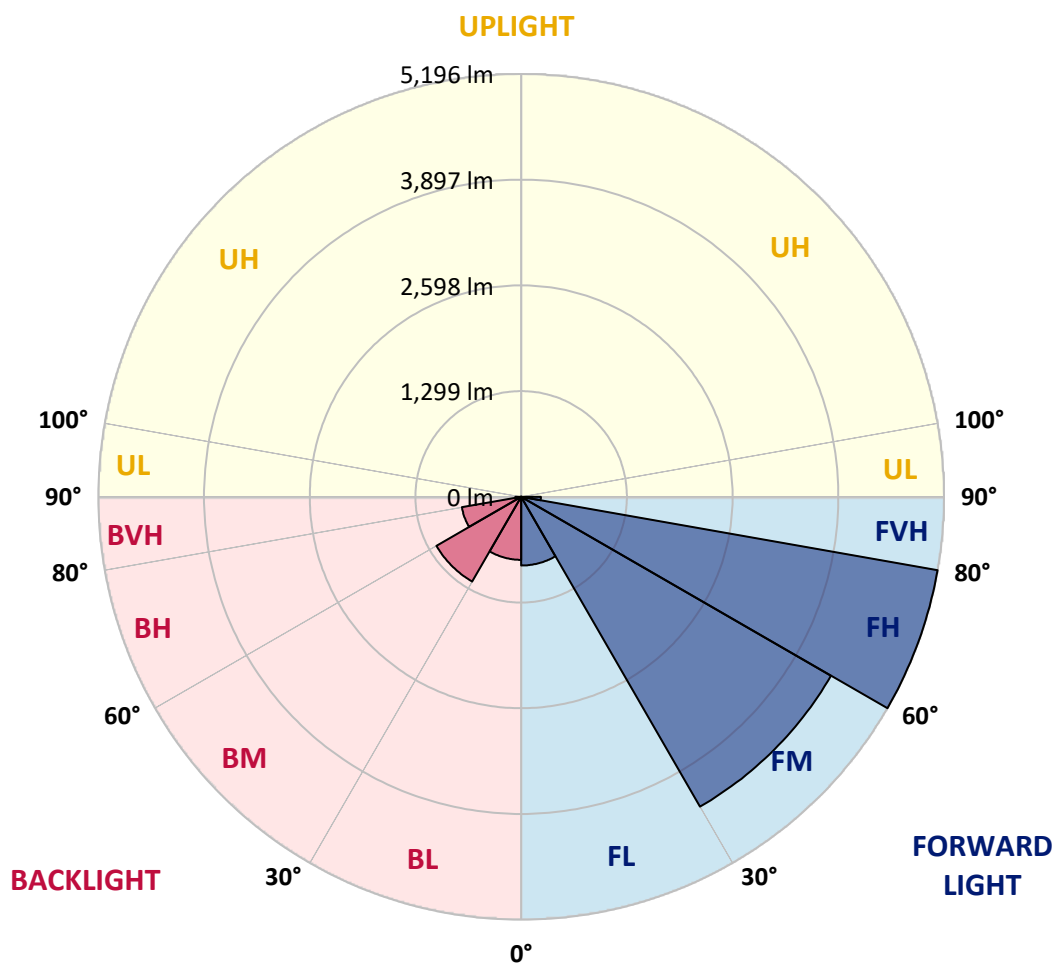
CATALOG NUMBER: VST-F06-LED-E-U-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.0	6.3			
FM	(30°-60°)	4395.7	32.6			
FH	(60°-80°)	5195.7	38.6			G3/7500
FVH	(80°-90°)	241.7	1.8			G3/500
BL	(0°-30°)	774.5	5.8	B2/1000		
BM	(30°-60°)	1202.8	8.9	B2/2500		
BH	(60°-80°)	739.9	5.5	B2/1000		G2/1000
BVH	(80°-90°)	70.6	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°	45°	47.5°
0°	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1795.1	1796.0	1796.9	1796.9	1799.6	1799.6	1804.2	1806.9	1807.8	1813.2	1816.8
5°	1761.6	1760.7	1761.6	1763.4	1768.0	1771.6	1780.6	1787.0	1792.4	1801.4	1806.0
7.5°	1747.2	1749.0	1750.8	1751.7	1755.3	1764.3	1772.5	1778.8	1789.7	1800.5	1805.1
10°	1766.2	1768.9	1766.2	1768.0	1768.0	1776.1	1779.7	1784.3	1792.4	1802.3	1805.1
12.5°	1810.5	1815.9	1810.5	1806.0	1802.3	1809.6	1807.8	1804.2	1808.7	1811.4	1811.4
15°	1883.8	1883.8	1880.2	1873.8	1864.8	1865.7	1857.5	1849.4	1845.8	1839.4	1834.9
17.5°	1955.3	1953.4	1945.3	1937.2	1930.8	1928.1	1916.3	1905.5	1892.8	1882.9	1872.0
20°	2024.9	2032.2	2022.2	2010.4	2000.5	1994.2	1985.1	1963.4	1948.0	1931.7	1920.9
22.5°	2145.3	2138.9	2128.1	2110.9	2100.9	2090.1	2071.1	2047.5	2024.0	2004.1	1990.5
25°	2269.2	2262.9	2247.5	2234.8	2220.4	2211.3	2190.5	2161.5	2138.9	2108.2	2090.1
27.5°	2402.2	2396.8	2378.7	2368.7	2358.8	2347.9	2329.8	2300.0	2279.2	2243.9	2224.9
30°	2552.4	2551.5	2527.1	2525.3	2510.8	2499.0	2486.4	2461.0	2440.2	2404.9	2382.3
32.5°	2712.6	2708.9	2691.8	2686.3	2696.3	2688.1	2670.0	2643.8	2616.7	2595.8	2570.5
35°	2940.6	2934.2	2924.3	2928.8	2935.1	2957.8	2929.7	2907.1	2874.5	2847.4	2812.1
37.5°	3107.1	3098.0	3109.8	3135.1	3171.3	3188.5	3212.9	3213.8	3198.4	3162.2	3131.5
40°	3260.0	3256.3	3283.5	3318.8	3385.7	3434.6	3480.7	3503.4	3508.8	3485.3	3439.1
42.5°	3389.4	3400.2	3436.4	3490.7	3584.8	3659.0	3744.9	3798.3	3831.8	3819.1	3798.3
45°	3543.2	3548.6	3592.9	3661.7	3751.3	3874.3	3987.4	4077.9	4136.7	4135.8	4112.3
47.5°	3735.9	3736.8	3774.8	3855.3	3951.2	4076.1	4219.0	4339.4	4417.2	4420.8	4402.7
50°	3964.8	3963.0	4004.6	4080.6	4182.9	4303.2	4455.2	4605.4	4714.0	4714.0	4687.7
52.5°	4259.8	4256.1	4278.8	4345.7	4444.3	4571.0	4722.1	4895.8	5013.5	5038.8	4981.8
55°	4653.3	4658.8	4664.2	4723.0	4807.2	4907.6	5081.3	5241.5	5398.9	5413.4	5379.9
57.5°	5108.5	5090.4	5129.3	5225.2	5321.1	5446.8	5569.9	5759.0	5945.4	5977.1	5972.5
60°	5819.6	5796.1	5835.9	5958.1	6063.9	6262.1	6472.9	6717.2	6937.9	7003.1	6924.4
62.5°	6473.8	6502.7	6557.0	6699.1	6852.9	7117.1	7433.8	7852.7	8271.6	8499.6	8483.3
65°	6415.0	6387.8	6491.9	6685.5	6964.2	7300.8	7694.4	8199.2	8802.7	9260.5	9301.3
66°	6196.9	6168.9	6281.1	6502.7	6821.2	7195.8	7632.8	8146.7	8763.8	9281.4	9343.8
67.5°	5836.8	5808.8	5935.4	6137.2	6465.6	6937.0	7409.3	7971.2	8612.7	9108.5	9159.2
70°	5141.9	5103.9	5202.6	5430.6	5696.6	6152.6	6602.3	7197.6	7856.3	8252.6	8271.6
72.5°	4355.7	4267.0	4372.0	4547.5	4737.5	5114.8	5506.6	5913.7	6438.5	6804.9	6909.9
75°	3160.4	3206.6	3237.3	3353.2	3478.9	3791.1	4020.9	4362.0	4768.3	5033.4	5117.5
77.5°	1676.6	1746.2	1789.7	1905.5	2113.6	2351.6	2600.4	2811.2	3078.1	3226.5	3329.6
80°	941.0	989.8	1060.4	1151.8	1253.1	1435.9	1583.4	1692.0	1730.0	1756.2	1779.7
82.5°	517.5	641.5	746.5	809.8	869.5	942.8	1030.6	1121.0	1150.0	1106.6	1083.9
85°	80.5	118.5	361.0	440.6	479.5	535.6	599.0	665.9	666.8	573.6	626.1
87.5°	22.6	25.3	51.6	77.8	76.0	61.5	76.0	138.4	81.4	40.7	47.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1818.6	1820.4	1825.0	1829.5	1834.0	1838.5	1841.3	1845.8	1849.4	1854.8	1861.2
5°	1811.4	1815.9	1824.1	1834.0	1843.1	1851.2	1857.5	1866.6	1874.7	1882.0	1892.8
7.5°	1811.4	1820.4	1834.0	1844.9	1853.0	1863.0	1872.9	1882.0	1891.0	1898.3	1905.5
10°	1812.3	1821.3	1834.9	1847.6	1856.6	1867.5	1875.6	1883.8	1893.7	1898.3	1907.3
12.5°	1815.9	1819.5	1829.5	1842.2	1853.0	1863.9	1872.0	1880.2	1891.0	1892.8	1899.2
15°	1834.0	1828.6	1831.3	1840.3	1852.1	1861.2	1870.2	1876.5	1883.8	1882.0	1887.4
17.5°	1867.5	1853.9	1848.5	1849.4	1854.8	1861.2	1864.8	1865.7	1866.6	1858.4	1859.3
20°	1912.7	1893.7	1881.1	1874.7	1867.5	1861.2	1851.2	1839.4	1828.6	1812.3	1810.5
22.5°	1980.6	1952.5	1939.0	1921.8	1900.1	1872.9	1848.5	1819.5	1796.0	1771.6	1762.5
25°	2079.2	2050.3	2035.8	2008.6	1969.7	1930.8	1895.5	1856.6	1822.3	1793.3	1779.7
27.5°	2211.3	2182.4	2167.0	2138.9	2091.0	2052.1	2003.2	1961.6	1920.0	1877.4	1860.3
30°	2371.5	2346.1	2328.9	2306.3	2264.7	2222.2	2165.2	2100.9	2034.9	1967.0	1933.5
32.5°	2560.6	2532.5	2519.8	2493.6	2450.2	2405.8	2342.5	2260.2	2149.8	2043.0	1976.1
35°	2796.7	2765.0	2750.6	2716.2	2665.5	2600.4	2532.5	2422.1	2272.8	2124.5	2015.0
37.5°	3112.5	3041.9	2994.0	2915.2	2833.8	2742.4	2645.6	2532.5	2356.1	2172.4	2020.4
40°	3392.1	3320.6	3228.3	3115.2	2988.5	2862.8	2752.4	2623.9	2432.1	2206.8	2003.2
42.5°	3739.5	3612.8	3465.4	3312.4	3144.2	2989.4	2858.2	2707.1	2483.7	2215.8	1955.3
45°	4057.1	3906.0	3708.7	3505.2	3296.2	3101.6	2954.1	2785.9	2528.0	2215.8	1897.3
47.5°	4346.6	4165.7	3929.5	3676.2	3432.8	3220.2	3052.8	2866.4	2590.4	2243.9	1880.2
50°	4614.4	4406.3	4137.6	3843.6	3570.3	3343.2	3163.2	2969.5	2685.4	2316.3	1921.8
52.5°	4896.7	4676.0	4348.4	4036.3	3735.0	3491.6	3299.8	3097.1	2808.5	2430.3	1995.1
55°	5266.8	5008.0	4636.2	4292.3	3961.2	3692.5	3474.4	3250.0	2943.3	2558.8	2084.6
57.5°	5850.4	5474.9	5103.0	4656.1	4343.9	3990.1	3751.3	3493.4	3162.2	2726.1	2219.5
60°	6871.9	6410.5	5963.5	5449.6	5064.1	4694.1	4333.0	3996.5	3597.5	3104.3	2515.3
62.5°	8330.4	7861.7	7159.6	6530.8	5949.0	5458.6	4988.1	4560.2	4048.0	3508.8	2880.0
65°	9201.7	8665.2	7828.3	6983.2	6276.5	5668.5	5130.2	4606.3	4053.5	3527.8	2990.3
66°	9271.4	8763.8	7869.9	6976.9	6243.1	5612.4	5052.4	4510.4	3944.0	3440.9	2954.1
67.5°	9142.0	8705.0	7784.8	6853.8	6103.7	5422.4	4847.0	4278.8	3709.6	3243.7	2833.8
70°	8229.1	7913.3	7124.3	6252.1	5503.9	4903.1	4296.0	3749.5	3210.2	2818.4	2514.4
72.5°	6746.1	6346.2	5794.3	5208.0	4619.0	4086.0	3534.1	3069.1	2616.7	2331.6	2116.3
75°	4955.5	4595.4	3987.4	3621.9	3232.8	2898.0	2526.2	2085.5	1764.3	1621.4	1568.9
77.5°	3141.4	2750.6	2237.6	1834.0	1577.1	1355.4	1068.6	849.6	680.4	708.5	784.5
80°	1587.0	1367.1	1023.3	808.0	698.5	580.9	459.6	348.3	254.2	290.4	328.4
82.5°	1018.8	850.5	677.7	533.8	450.6	397.2	317.6	230.7	171.9	193.6	237.1
85°	613.4	518.4	413.5	338.4	294.1	245.2	180.1	127.6	126.7	135.7	167.4
87.5°	93.2	133.0	76.9	82.3	86.9	93.2	82.3	69.7	60.6	78.7	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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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1867.5	1869.3	1872.9	1877.4	1876.5	1882.9	1886.5	1882.9	1891.0	1891.0	1895.5
5°	1901.9	1904.6	1910.9	1915.4	1917.3	1922.7	1924.5	1923.6	1925.4	1926.3	1928.1
7.5°	1911.8	1919.1	1921.8	1924.5	1925.4	1927.2	1927.2	1925.4	1925.4	1924.5	1926.3
10°	1909.1	1911.8	1913.6	1912.7	1912.7	1910.9	1910.0	1909.1	1909.1	1907.3	1910.0
12.5°	1900.1	1900.1	1900.1	1898.3	1898.3	1897.3	1897.3	1897.3	1899.2	1900.1	1904.6
15°	1882.0	1882.0	1883.8	1882.9	1885.6	1890.1	1895.5	1899.2	1903.7	1904.6	1907.3
17.5°	1853.9	1854.8	1860.3	1872.0	1883.8	1897.3	1907.3	1910.0	1906.4	1897.3	1891.0
20°	1805.1	1816.8	1838.5	1866.6	1892.8	1910.0	1914.5	1903.7	1886.5	1863.0	1850.3
22.5°	1761.6	1785.2	1824.1	1870.2	1902.8	1914.5	1901.0	1875.6	1844.9	1817.7	1798.7
25°	1778.8	1806.0	1846.7	1886.5	1907.3	1901.0	1873.8	1837.6	1805.1	1773.4	1742.6
27.5°	1851.2	1878.3	1907.3	1919.1	1911.8	1888.3	1850.3	1811.4	1768.0	1722.7	1684.7
30°	1920.0	1935.4	1937.2	1925.4	1899.2	1861.2	1816.8	1771.6	1716.4	1662.1	1614.1
32.5°	1941.7	1923.6	1891.0	1857.5	1821.3	1782.4	1730.9	1671.2	1612.3	1550.8	1497.4
35°	1935.4	1862.1	1781.5	1710.1	1666.6	1622.3	1575.2	1495.6	1429.6	1377.1	1342.7
37.5°	1878.3	1744.4	1620.5	1516.4	1448.6	1396.1	1326.4	1260.4	1203.4	1179.8	1151.8
40°	1798.7	1594.2	1422.3	1276.7	1206.1	1139.1	1061.3	1010.7	994.4	972.7	973.6
42.5°	1684.7	1418.7	1197.0	1029.7	952.7	879.5	824.3	794.4	795.3	777.2	780.8
45°	1564.4	1242.3	963.6	797.1	721.1	658.7	627.9	618.9	619.8	620.7	615.3
47.5°	1491.1	1104.8	772.7	604.4	537.4	502.2	485.9	481.3	482.3	483.2	476.8
50°	1480.2	1033.3	645.1	462.3	418.9	399.0	390.9	386.3	386.3	382.7	377.3
52.5°	1511.0	1015.2	582.7	400.8	359.2	341.1	334.8	331.2	325.7	318.5	308.5
55°	1559.9	1031.5	563.7	380.0	339.3	321.2	313.1	311.2	302.2	288.6	272.3
57.5°	1650.3	1090.3	576.4	385.4	342.9	326.6	321.2	319.4	306.7	285.9	265.1
60°	1910.0	1261.3	639.7	416.2	369.2	355.6	355.6	352.9	335.7	305.8	276.0
62.5°	2268.3	1511.9	725.6	458.7	405.3	403.5	418.9	419.8	389.1	341.1	294.1
65°	2441.1	1629.5	755.5	467.8	415.3	436.1	466.9	466.9	423.4	357.4	296.8
66°	2442.0	1626.8	746.5	456.9	404.4	431.6	463.3	463.3	418.0	352.9	292.2
67.5°	2379.6	1576.1	716.6	437.0	380.0	405.3	433.4	432.5	391.8	334.8	279.6
70°	2134.4	1394.3	631.5	404.4	351.1	352.0	361.9	355.6	328.4	289.5	254.2
72.5°	1840.3	1166.3	547.4	383.6	328.4	311.2	303.1	297.7	280.5	257.0	235.2
75°	1411.5	905.7	476.8	364.6	308.5	278.7	267.8	263.3	251.5	238.0	220.8
77.5°	865.0	620.7	404.4	333.9	285.9	258.8	247.0	238.0	226.2	213.5	201.8
80°	372.8	374.6	323.9	283.2	248.8	217.2	201.8	190.9	184.6	180.1	173.7
82.5°	260.6	268.7	247.0	219.9	190.0	167.4	153.8	151.1	152.0	152.0	150.2
85°	195.4	191.8	172.8	157.4	143.9	129.4	118.5	117.6	121.2	121.2	118.5
87.5°	113.1	114.0	97.7	91.4	95.0	81.4	74.2	75.1	84.1	83.2	81.4
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°	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1895.5	1898.3	1897.3	1900.1	1897.3
5°	1930.8	1929.9	1929.0	1932.6	1928.1
7.5°	1925.4	1926.3	1926.3	1926.3	1925.4
10°	1911.8	1915.4	1917.3	1920.9	1920.0
12.5°	1907.3	1912.7	1918.2	1923.6	1924.5
15°	1908.2	1911.8	1914.5	1917.3	1918.2
17.5°	1884.7	1883.8	1881.1	1879.3	1877.4
20°	1836.7	1832.2	1827.7	1820.4	1824.1
22.5°	1777.0	1764.3	1749.9	1738.1	1737.2
25°	1707.3	1683.8	1660.3	1644.9	1639.5
27.5°	1645.8	1617.8	1593.3	1579.8	1576.1
30°	1572.5	1547.2	1525.5	1513.7	1506.5
32.5°	1464.0	1444.0	1416.9	1407.9	1407.0
35°	1312.9	1297.5	1278.5	1274.9	1270.3
37.5°	1141.8	1136.4	1127.4	1116.5	1114.7
40°	959.1	962.7	960.0	953.7	943.7
42.5°	782.6	789.0	789.9	794.4	798.9
45°	623.4	628.8	628.8	633.4	638.8
47.5°	478.6	475.0	477.7	482.3	485.0
50°	361.9	359.2	354.7	351.1	347.4
52.5°	291.3	285.9	273.2	269.6	266.0
55°	257.0	247.0	238.0	234.3	234.3
57.5°	247.0	234.3	224.4	219.9	218.1
60°	248.8	230.7	218.1	210.8	208.1
62.5°	257.0	231.6	214.4	206.3	203.6
65°	256.1	229.8	213.5	204.5	201.8
66°	251.5	227.1	211.7	203.6	201.8
67.5°	244.3	223.5	209.9	202.7	200.0
70°	229.8	216.2	206.3	200.0	197.2
72.5°	218.1	209.0	200.0	192.7	190.9
75°	207.2	198.1	190.0	186.4	183.7
77.5°	190.9	182.8	178.2	174.6	172.8
80°	169.2	163.8	158.3	154.7	152.0
82.5°	147.5	140.2	134.8	132.1	130.3
85°	120.3	115.8	107.7	102.2	101.3
87.5°	80.5	76.0	73.3	68.8	64.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)