

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: P159786

Luminaire Tested: **VST-F06-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159786
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-T4-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15127.2 lumens
Efficiency: N/A
Efficacy: 96.7 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



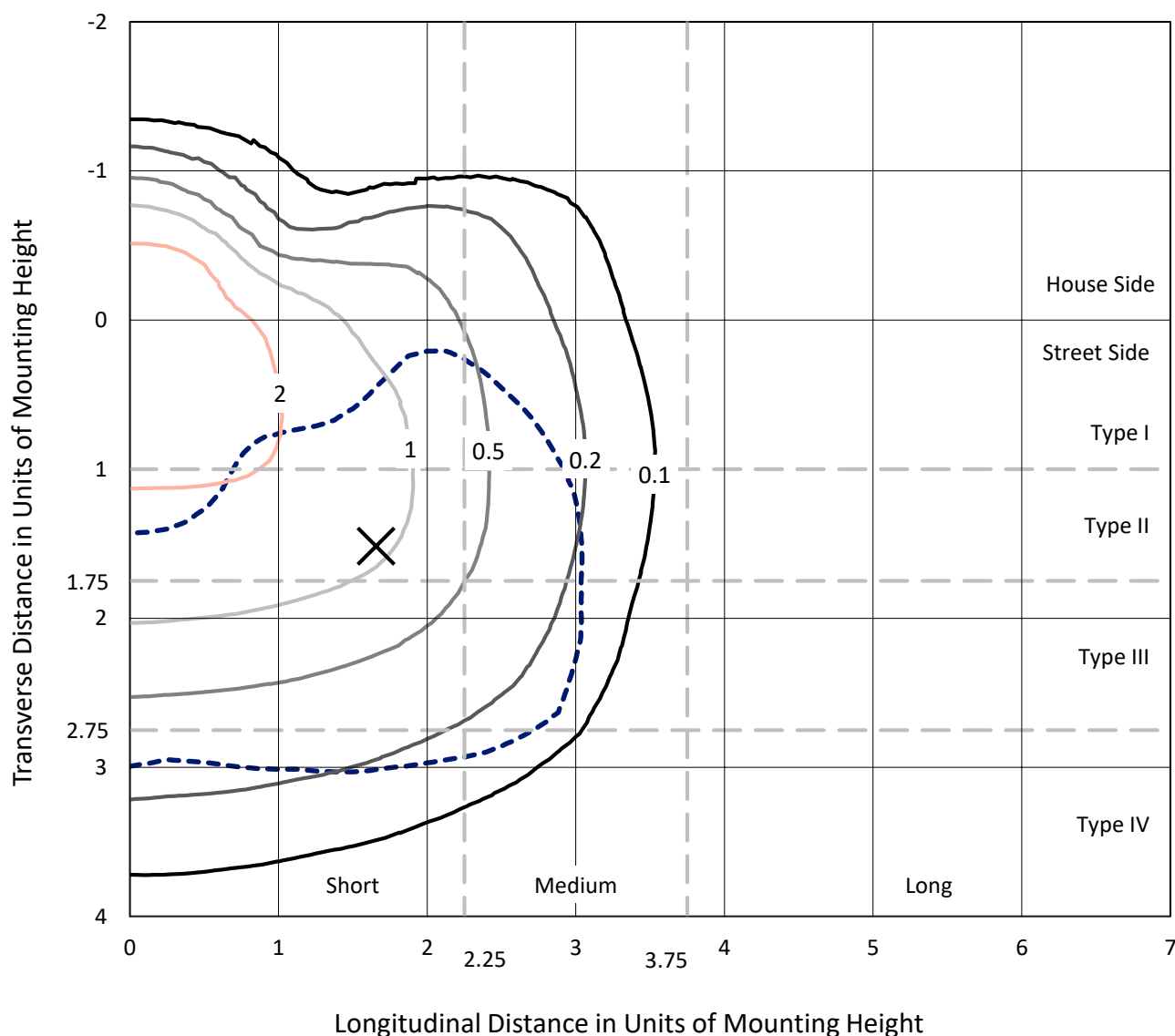
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

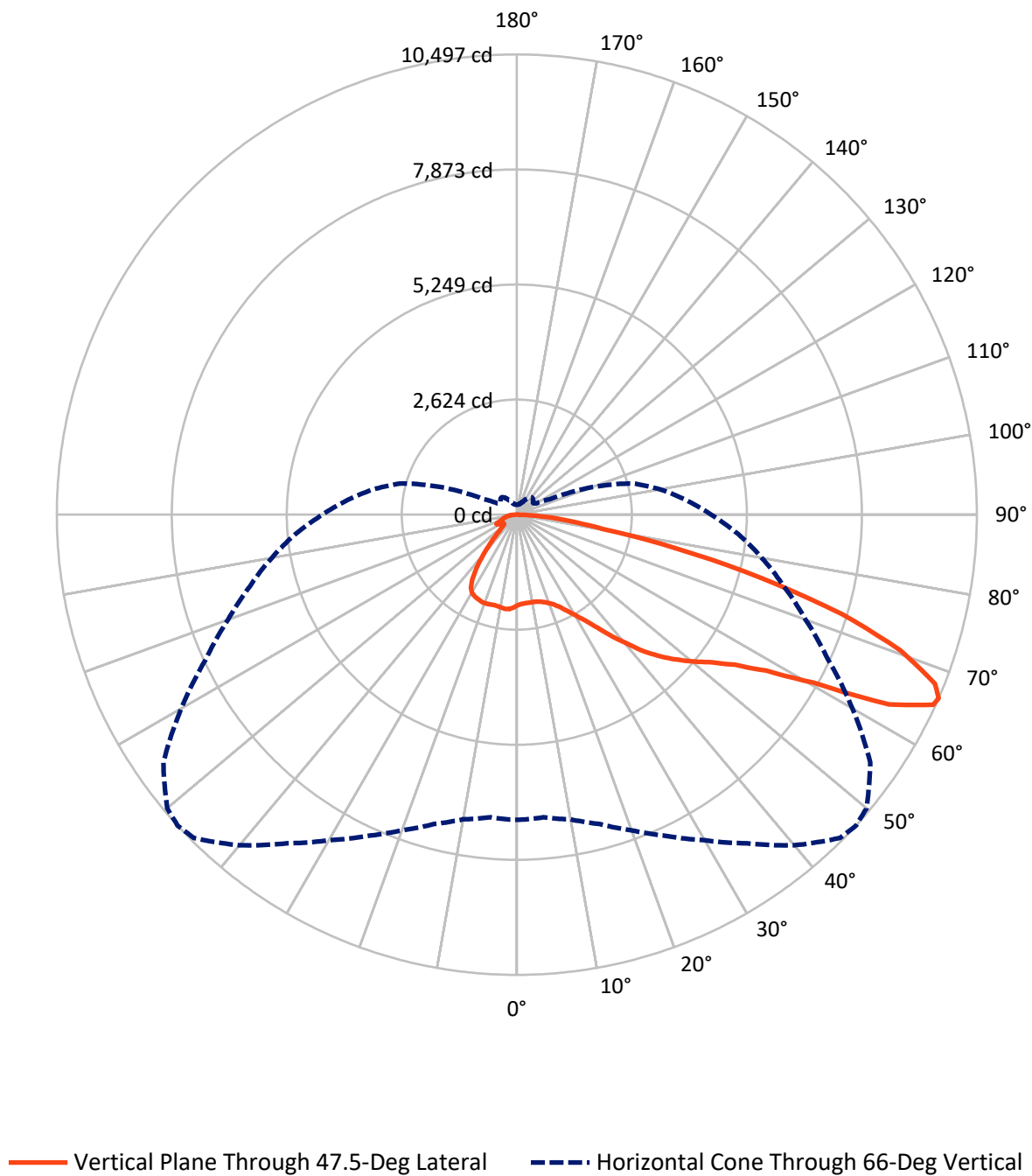


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3132.0	0.0	3132.0
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	11995.2	0.0	11995.2
	% Fixture	79.3	0.0	79.3
Total	Lumens	15127.2	0.0	15127.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.3
10°-20°	598.2	4.0
20°-30°	1020.6	6.7
30°-40°	1540.5	10.2
40°-50°	2002.3	13.2
50°-60°	2746.9	18.2
60°-70°	4225.6	27.9
70°-80°	2442.7	16.1
80°-90°	350.9	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°	15127.2	100.0
0°-180°	15127.2	100.0

Coefficient of Utilization



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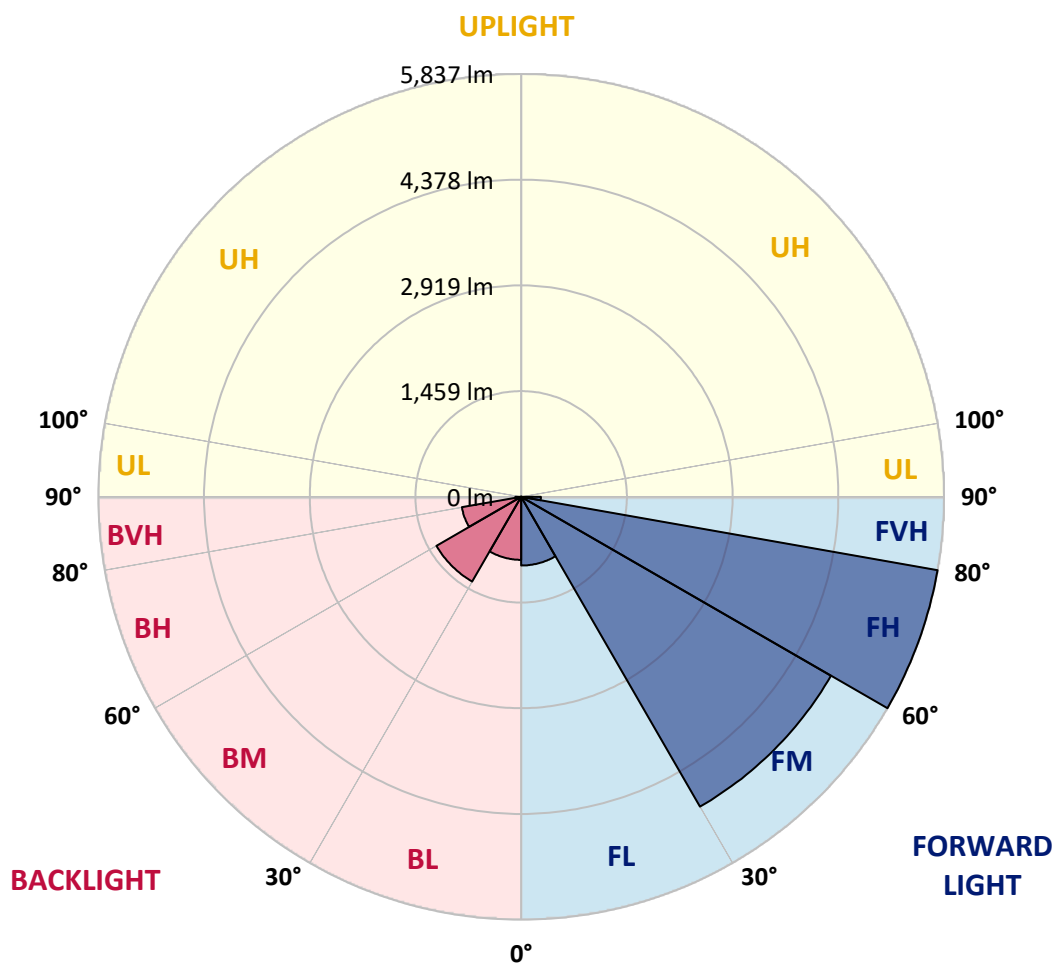
CATALOG NUMBER: VST-F06-LED-E-U-T4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.2	6.3			
FM	(30°-60°)	4938.4	32.6			
FH	(60°-80°)	5837.1	38.6			G3/7500
FVH	(80°-90°)	271.6	1.8			G3/500
BL	(0°-30°)	870.1	5.8	B2/1000		
BM	(30°-60°)	1351.3	8.9	B2/2500		
BH	(60°-80°)	831.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	79.4	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°	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2016.7	2017.7	2018.8	2018.8	2021.8	2021.8	2026.9	2029.9	2030.9	2037.0	2041.1
5°	1979.1	1978.1	1979.1	1981.1	1986.2	1990.3	2000.5	2007.6	2013.7	2023.8	2028.9
7.5°	1962.8	1964.9	1966.9	1967.9	1972.0	1982.2	1991.3	1998.4	2010.6	2022.8	2027.9
10°	1984.2	1987.2	1984.2	1986.2	1986.2	1995.4	1999.4	2004.5	2013.7	2024.8	2027.9
12.5°	2034.0	2040.1	2034.0	2028.9	2024.8	2033.0	2030.9	2026.9	2032.0	2035.0	2035.0
15°	2116.3	2116.3	2112.3	2105.2	2095.0	2096.0	2086.9	2077.7	2073.6	2066.5	2061.4
17.5°	2196.6	2194.6	2185.5	2176.3	2169.2	2166.1	2152.9	2140.7	2126.5	2115.3	2103.1
20°	2274.9	2283.0	2271.9	2258.6	2247.5	2240.3	2230.2	2205.8	2188.5	2170.2	2158.0
22.5°	2410.1	2403.0	2390.8	2371.5	2360.3	2348.1	2326.7	2300.3	2273.9	2251.5	2236.3
25°	2549.4	2542.2	2525.0	2510.7	2494.5	2484.3	2460.9	2428.4	2403.0	2368.4	2348.1
27.5°	2698.8	2692.7	2672.4	2661.2	2650.0	2637.8	2617.5	2583.9	2560.5	2520.9	2499.6
30°	2867.5	2866.5	2839.1	2837.0	2820.8	2807.5	2793.3	2764.9	2741.5	2701.8	2676.4
32.5°	3047.4	3043.4	3024.1	3018.0	3029.1	3020.0	2999.7	2970.2	2939.7	2916.3	2887.9
35°	3303.6	3296.5	3285.3	3290.4	3297.5	3322.9	3291.4	3266.0	3229.4	3198.9	3159.3
37.5°	3490.6	3480.5	3493.7	3522.1	3562.8	3582.1	3609.6	3610.6	3593.3	3552.6	3518.1
40°	3662.4	3658.4	3688.8	3728.5	3803.7	3858.6	3910.4	3935.9	3942.0	3915.5	3863.7
42.5°	3807.8	3820.0	3860.6	3921.6	4027.3	4110.7	4207.3	4267.2	4304.8	4290.6	4267.2
45°	3980.6	3986.7	4036.5	4113.7	4214.4	4352.6	4479.7	4581.3	4647.4	4646.4	4620.0
47.5°	4197.1	4198.1	4240.8	4331.3	4439.0	4579.3	4739.9	4875.1	4962.5	4966.6	4946.2
50°	4454.3	4452.2	4499.0	4584.4	4699.2	4834.4	5005.2	5173.9	5295.9	5295.9	5266.4
52.5°	4785.6	4781.6	4807.0	4882.2	4993.0	5135.3	5305.1	5500.2	5632.4	5660.8	5596.8
55°	5227.8	5233.9	5240.0	5306.1	5400.6	5513.4	5708.6	5888.5	6065.4	6081.7	6044.1
57.5°	5739.1	5718.8	5762.5	5870.2	5978.0	6119.3	6257.5	6470.0	6679.4	6714.9	6709.9
60°	6538.1	6511.6	6556.4	6693.6	6812.5	7035.1	7272.0	7546.4	7794.5	7867.6	7779.2
62.5°	7273.0	7305.5	7366.5	7526.1	7698.9	7995.7	8351.5	8822.1	9292.8	9548.9	9530.6
65°	7206.9	7176.4	7293.3	7510.9	7823.9	8202.1	8644.2	9211.4	9889.4	10403.8	10449.5
66°	6961.9	6930.4	7056.5	7305.5	7663.3	8084.2	8575.1	9152.5	9845.7	10427.2	10497.3
67.5°	6557.4	6525.9	6668.2	6894.9	7263.8	7793.4	8324.0	8955.3	9676.0	10233.0	10289.9
70°	5776.7	5734.0	5844.8	6101.0	6399.8	6912.1	7417.3	8086.2	8826.2	9271.4	9292.8
72.5°	4893.4	4793.8	4911.7	5108.9	5322.3	5746.2	6186.4	6643.8	7233.3	7645.0	7762.9
75°	3550.6	3602.4	3637.0	3767.1	3908.4	4259.1	4517.3	4900.5	5356.9	5654.7	5749.3
77.5°	1883.6	1961.8	2010.6	2140.7	2374.5	2641.9	2921.4	3158.2	3458.1	3624.8	3740.7
80°	1057.2	1112.0	1191.3	1294.0	1407.8	1613.2	1778.9	1900.8	1943.5	1973.0	1999.4
82.5°	581.4	720.7	838.6	909.8	976.8	1059.2	1157.8	1259.4	1292.0	1243.2	1217.8
85°	90.5	133.2	405.6	495.0	538.7	601.8	672.9	748.1	749.2	644.5	703.4
87.5°	25.4	28.5	57.9	87.4	85.4	69.1	85.4	155.5	91.5	45.7	52.9
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°	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2043.1	2045.2	2050.3	2055.3	2060.4	2065.5	2068.6	2073.6	2077.7	2083.8	2090.9
5°	2035.0	2040.1	2049.2	2060.4	2070.6	2079.7	2086.9	2097.0	2106.2	2114.3	2126.5
7.5°	2035.0	2045.2	2060.4	2072.6	2081.8	2093.0	2104.1	2114.3	2124.5	2132.6	2140.7
10°	2036.0	2046.2	2061.4	2075.7	2085.8	2098.0	2107.2	2116.3	2127.5	2132.6	2142.8
12.5°	2040.1	2044.2	2055.3	2069.6	2081.8	2094.0	2103.1	2112.3	2124.5	2126.5	2133.6
15°	2060.4	2054.3	2057.4	2067.5	2080.8	2090.9	2101.1	2108.2	2116.3	2114.3	2120.4
17.5°	2098.0	2082.8	2076.7	2077.7	2083.8	2090.9	2095.0	2096.0	2097.0	2087.9	2088.9
20°	2148.9	2127.5	2113.3	2106.2	2098.0	2090.9	2079.7	2066.5	2054.3	2036.0	2034.0
22.5°	2225.1	2193.6	2178.3	2159.0	2134.6	2104.1	2076.7	2044.2	2017.7	1990.3	1980.1
25°	2335.9	2303.4	2287.1	2256.6	2212.9	2169.2	2129.5	2085.8	2047.2	2014.7	1999.4
27.5°	2484.3	2451.8	2434.5	2403.0	2349.1	2305.4	2250.5	2203.8	2157.0	2109.2	2089.9
30°	2664.2	2635.8	2616.4	2591.0	2544.3	2496.5	2432.5	2360.3	2286.1	2209.9	2172.2
32.5°	2876.7	2845.2	2830.9	2801.4	2752.7	2702.8	2631.7	2539.2	2415.2	2295.2	2220.0
35°	3142.0	3106.4	3090.1	3051.5	2994.6	2921.4	2845.2	2721.1	2553.4	2386.7	2263.7
37.5°	3496.7	3417.4	3363.6	3275.1	3183.6	3081.0	2972.2	2845.2	2646.9	2440.6	2269.8
40°	3810.8	3730.5	3626.8	3499.8	3357.5	3216.2	3092.2	2947.8	2732.3	2479.2	2250.5
42.5°	4201.2	4058.8	3893.2	3721.4	3532.3	3358.5	3211.1	3041.3	2790.3	2489.4	2196.6
45°	4557.9	4388.2	4166.6	3937.9	3703.1	3484.5	3318.8	3129.8	2840.1	2489.4	2131.6
47.5°	4883.2	4679.9	4414.6	4130.0	3856.6	3617.7	3429.6	3220.2	2910.2	2520.9	2112.3
50°	5184.1	4950.3	4648.4	4318.1	4011.1	3755.9	3553.7	3336.1	3016.9	2602.2	2159.0
52.5°	5501.2	5253.2	4885.3	4534.6	4196.1	3922.6	3707.1	3479.4	3155.2	2730.3	2241.4
55°	5917.0	5626.3	5208.5	4822.2	4450.2	4148.3	3903.3	3651.2	3306.6	2874.6	2342.0
57.5°	6572.6	6150.8	5733.0	5230.9	4880.2	4482.7	4214.4	3924.7	3552.6	3062.7	2493.5
60°	7720.2	7201.8	6699.7	6122.3	5689.3	5273.6	4868.0	4489.8	4041.6	3487.6	2825.8
62.5°	9358.8	8832.3	8043.5	7337.0	6683.4	6132.5	5603.9	5123.1	4547.8	3942.0	3235.5
65°	10337.7	9734.9	8794.7	7845.3	7051.4	6368.3	5763.5	5175.0	4553.9	3963.3	3359.5
66°	10416.0	9845.7	8841.4	7838.2	7013.8	6305.3	5676.1	5067.2	4430.9	3865.7	3318.8
67.5°	10270.6	9779.7	8745.9	7699.9	6857.2	6091.8	5445.3	4807.0	4167.6	3644.1	3183.6
70°	9245.0	8890.2	8003.8	7024.0	6183.3	5508.4	4826.3	4212.3	3606.5	3166.4	2824.8
72.5°	7579.0	7129.7	6509.6	5850.9	5189.2	4590.5	3970.4	3447.9	2939.7	2619.5	2377.6
75°	5567.3	5162.8	4479.7	4069.0	3631.9	3255.8	2838.0	2343.0	1982.2	1821.6	1762.6
77.5°	3529.3	3090.1	2513.8	2060.4	1771.7	1522.7	1200.5	954.5	764.4	795.9	881.3
80°	1782.9	1535.9	1149.7	907.7	784.7	652.6	516.4	391.3	285.6	326.3	369.0
82.5°	1144.6	955.5	761.4	599.7	506.2	446.2	356.8	259.2	193.1	217.5	266.3
85°	689.2	582.4	464.5	380.2	330.4	275.5	202.3	143.3	142.3	152.5	188.1
87.5°	104.7	149.4	86.4	92.5	97.6	104.7	92.5	78.3	68.1	88.4	111.8
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°	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2098.0	2100.1	2104.1	2109.2	2108.2	2115.3	2119.4	2115.3	2124.5	2124.5	2129.5
5°	2136.7	2139.7	2146.8	2151.9	2153.9	2160.0	2162.1	2161.1	2163.1	2164.1	2166.1
7.5°	2147.8	2156.0	2159.0	2162.1	2163.1	2165.1	2165.1	2163.1	2163.1	2162.1	2164.1
10°	2144.8	2147.8	2149.9	2148.9	2148.9	2146.8	2145.8	2144.8	2144.8	2142.8	2145.8
12.5°	2134.6	2134.6	2134.6	2132.6	2132.6	2131.6	2131.6	2131.6	2133.6	2134.6	2139.7
15°	2114.3	2114.3	2116.3	2115.3	2118.4	2123.4	2129.5	2133.6	2138.7	2139.7	2142.8
17.5°	2082.8	2083.8	2089.9	2103.1	2116.3	2131.6	2142.8	2145.8	2141.7	2131.6	2124.5
20°	2027.9	2041.1	2065.5	2097.0	2126.5	2145.8	2150.9	2138.7	2119.4	2093.0	2078.7
22.5°	1979.1	2005.5	2049.2	2101.1	2137.7	2150.9	2135.6	2107.2	2072.6	2042.1	2020.8
25°	1998.4	2028.9	2074.7	2119.4	2142.8	2135.6	2105.2	2064.5	2027.9	1992.3	1957.8
27.5°	2079.7	2110.2	2142.8	2156.0	2147.8	2121.4	2078.7	2035.0	1986.2	1935.4	1892.7
30°	2157.0	2174.3	2176.3	2163.1	2133.6	2090.9	2041.1	1990.3	1928.3	1867.3	1813.4
32.5°	2181.4	2161.1	2124.5	2086.9	2046.2	2002.5	1944.5	1877.5	1811.4	1742.3	1682.3
35°	2174.3	2091.9	2001.5	1921.2	1872.4	1822.6	1769.7	1680.3	1606.1	1547.1	1508.5
37.5°	2110.2	1959.8	1820.5	1703.6	1627.4	1568.4	1490.2	1416.0	1351.9	1325.5	1294.0
40°	2020.8	1791.1	1597.9	1434.3	1355.0	1279.8	1192.3	1135.4	1117.1	1092.7	1093.7
42.5°	1892.7	1593.9	1344.8	1156.8	1070.4	988.0	926.0	892.5	893.5	873.2	877.2
45°	1757.5	1395.6	1082.6	895.5	810.1	740.0	705.4	695.3	696.3	697.3	691.2
47.5°	1675.2	1241.1	868.1	679.0	603.8	564.2	545.9	540.8	541.8	542.8	535.7
50°	1663.0	1160.8	724.8	519.4	470.6	448.3	439.1	434.0	434.0	430.0	423.9
52.5°	1697.5	1140.5	654.6	450.3	403.5	383.2	376.1	372.0	365.9	357.8	346.6
55°	1752.4	1158.8	633.3	426.9	381.2	360.9	351.7	349.7	339.5	324.3	306.0
57.5°	1854.1	1224.9	647.5	433.0	385.2	367.0	360.9	358.8	344.6	321.2	297.8
60°	2145.8	1417.0	718.7	467.6	414.7	399.5	399.5	396.4	377.1	343.6	310.0
62.5°	2548.3	1698.6	815.2	515.4	455.4	453.4	470.6	471.7	437.1	383.2	330.4
65°	2742.5	1830.7	848.8	525.5	466.6	489.9	524.5	524.5	475.7	401.5	333.4
66°	2743.5	1827.7	838.6	513.3	454.4	484.9	520.4	520.4	469.6	396.4	328.3
67.5°	2673.4	1770.7	805.1	491.0	426.9	455.4	486.9	485.9	440.1	376.1	314.1
70°	2397.9	1566.4	709.5	454.4	394.4	395.4	406.6	399.5	369.0	325.3	285.6
72.5°	2067.5	1310.3	615.0	431.0	369.0	349.7	340.5	334.4	315.1	288.7	264.3
75°	1585.7	1017.5	535.7	409.6	346.6	313.1	300.9	295.8	282.6	267.3	248.0
77.5°	971.8	697.3	454.4	375.1	321.2	290.7	277.5	267.3	254.1	239.9	226.7
80°	418.8	420.8	363.9	318.2	279.5	244.0	226.7	214.5	207.4	202.3	195.2
82.5°	292.7	301.9	277.5	247.0	213.5	188.1	172.8	169.8	170.8	170.8	168.7
85°	219.6	215.5	194.1	176.9	161.6	145.4	133.2	132.1	136.2	136.2	133.2
87.5°	127.1	128.1	109.8	102.7	106.7	91.5	83.4	84.4	94.5	93.5	91.5
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°	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2129.5	2132.6	2131.6	2134.6	2131.6
5°	2169.2	2168.2	2167.2	2171.2	2166.1
7.5°	2163.1	2164.1	2164.1	2164.1	2163.1
10°	2147.8	2151.9	2153.9	2158.0	2157.0
12.5°	2142.8	2148.9	2155.0	2161.1	2162.1
15°	2143.8	2147.8	2150.9	2153.9	2155.0
17.5°	2117.4	2116.3	2113.3	2111.3	2109.2
20°	2063.5	2058.4	2053.3	2045.2	2049.2
22.5°	1996.4	1982.2	1965.9	1952.7	1951.7
25°	1918.1	1891.7	1865.3	1848.0	1841.9
27.5°	1849.0	1817.5	1790.0	1774.8	1770.7
30°	1766.7	1738.2	1713.8	1700.6	1692.5
32.5°	1644.7	1622.3	1591.8	1581.7	1580.6
35°	1474.9	1457.6	1436.3	1432.2	1427.2
37.5°	1282.8	1276.7	1266.5	1254.3	1252.3
40°	1077.5	1081.5	1078.5	1071.4	1060.2
42.5°	879.3	886.4	887.4	892.5	897.6
45°	700.4	706.5	706.5	711.5	717.6
47.5°	537.7	533.7	536.7	541.8	544.8
50°	406.6	403.5	398.5	394.4	390.3
52.5°	327.3	321.2	307.0	302.9	298.8
55°	288.7	277.5	267.3	263.3	263.3
57.5°	277.5	263.3	252.1	247.0	245.0
60°	279.5	259.2	245.0	236.8	233.8
62.5°	288.7	260.2	240.9	231.8	228.7
65°	287.7	258.2	239.9	229.7	226.7
66°	282.6	255.1	237.9	228.7	226.7
67.5°	274.5	251.1	235.8	227.7	224.6
70°	258.2	242.9	231.8	224.6	221.6
72.5°	245.0	234.8	224.6	216.5	214.5
75°	232.8	222.6	213.5	209.4	206.3
77.5°	214.5	205.3	200.2	196.2	194.1
80°	190.1	184.0	177.9	173.8	170.8
82.5°	165.7	157.6	151.5	148.4	146.4
85°	135.2	130.1	121.0	114.9	113.8
87.5°	90.5	85.4	82.3	77.3	72.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)