

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: P159576

Luminaire Tested: **VST-F07-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159576
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-F07-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18134.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - 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

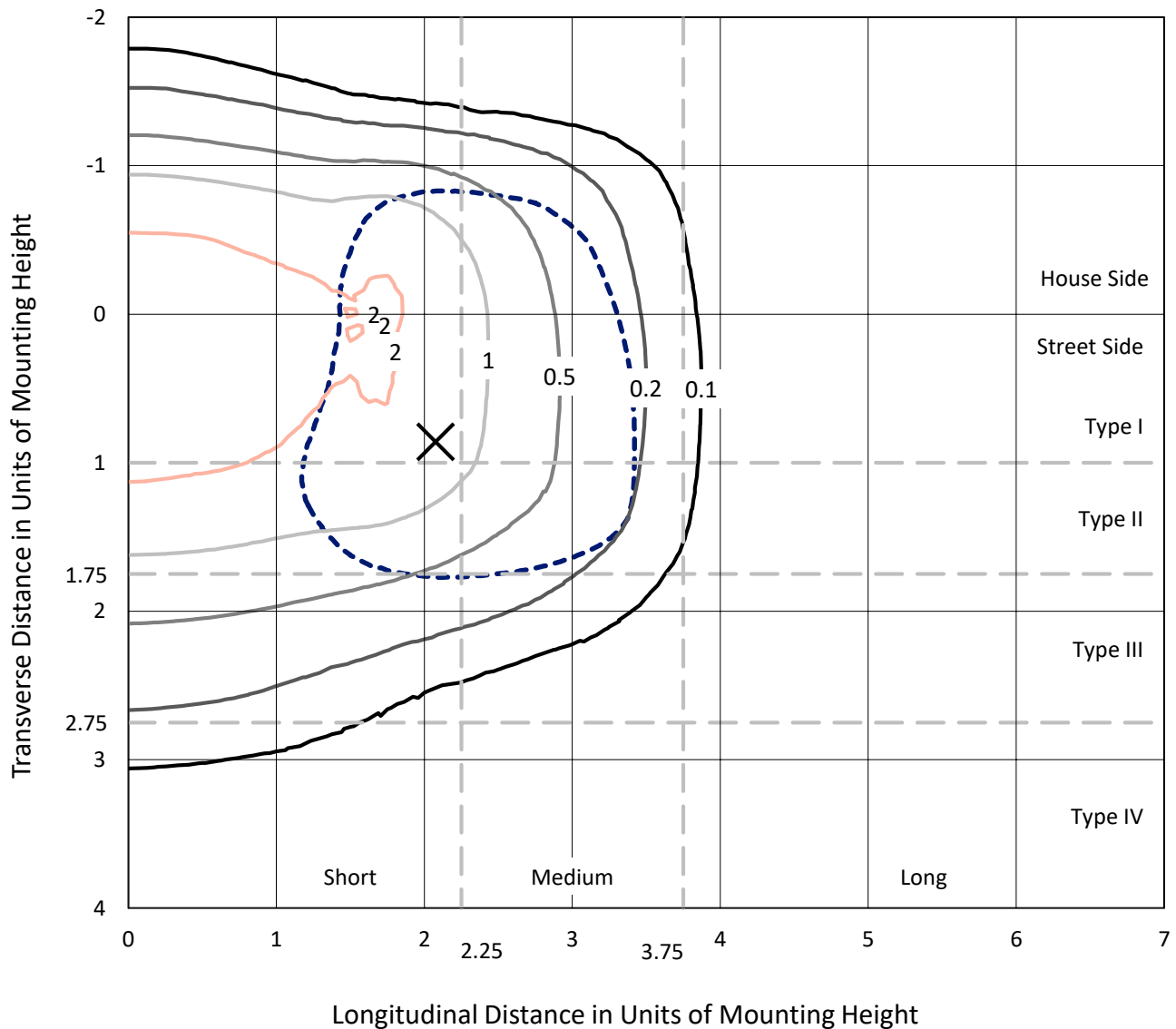


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

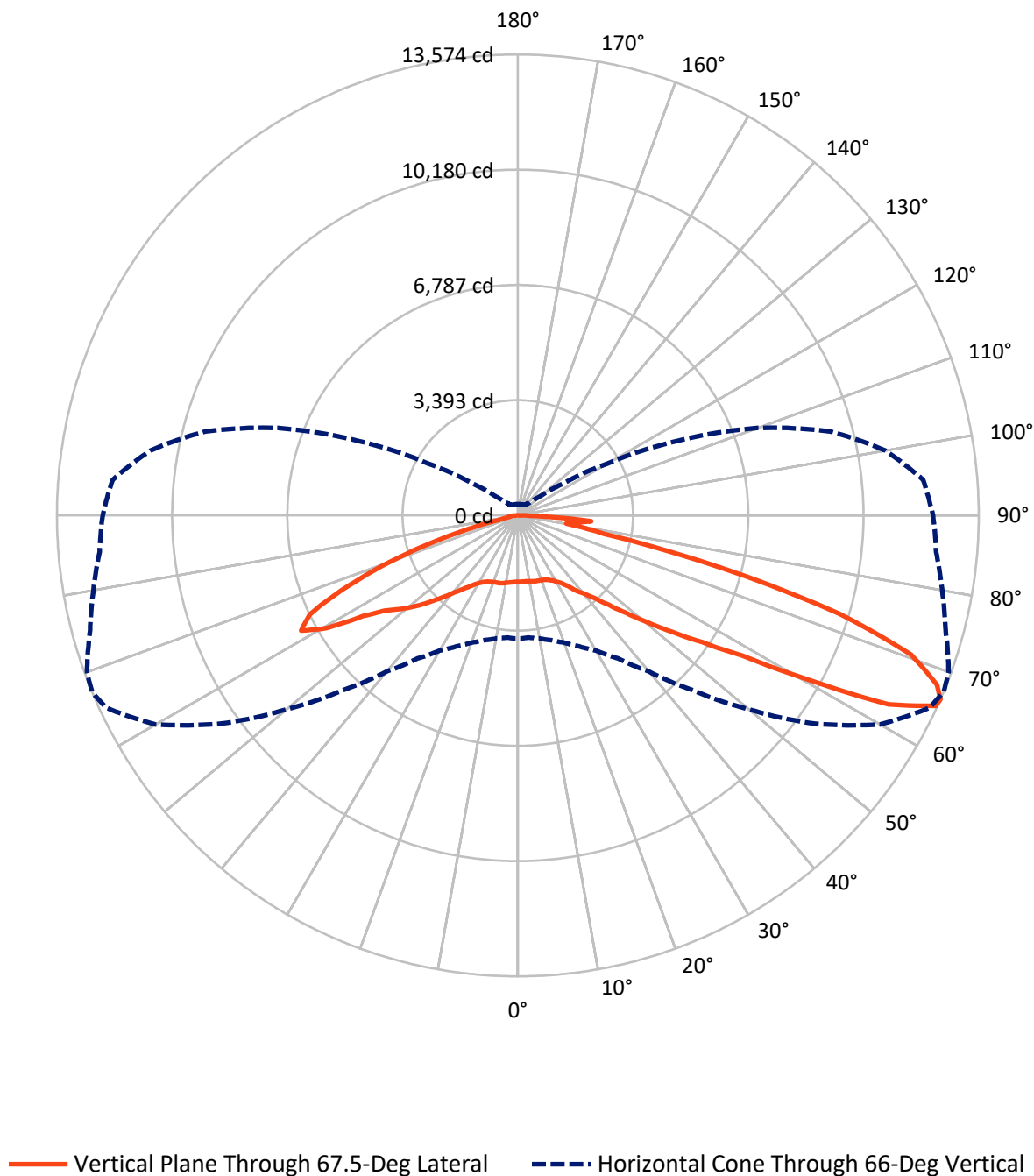


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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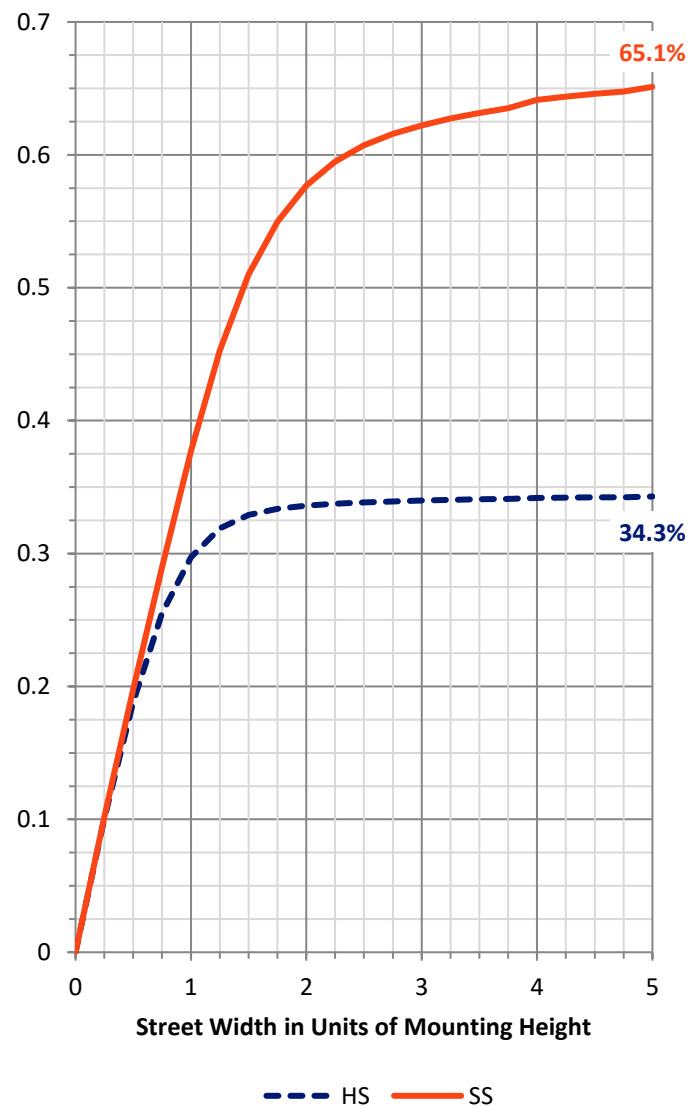
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6275.4	0.0	6275.4
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	11859.3	0.0	11859.3
	% Fixture	65.4	0.0	65.4
Total	Lumens	18134.7	0.0	18134.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.0
10°-20°	556.0	3.1
20°-30°	955.8	5.3
30°-40°	1544.7	8.5
40°-50°	2560.0	14.1
50°-60°	4017.6	22.2
60°-70°	5492.9	30.3
70°-80°	2415.5	13.3
80°-90°	404.3	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°	18134.7	100.0
0°-180°	18134.7	100.0

Coefficient of Utilization



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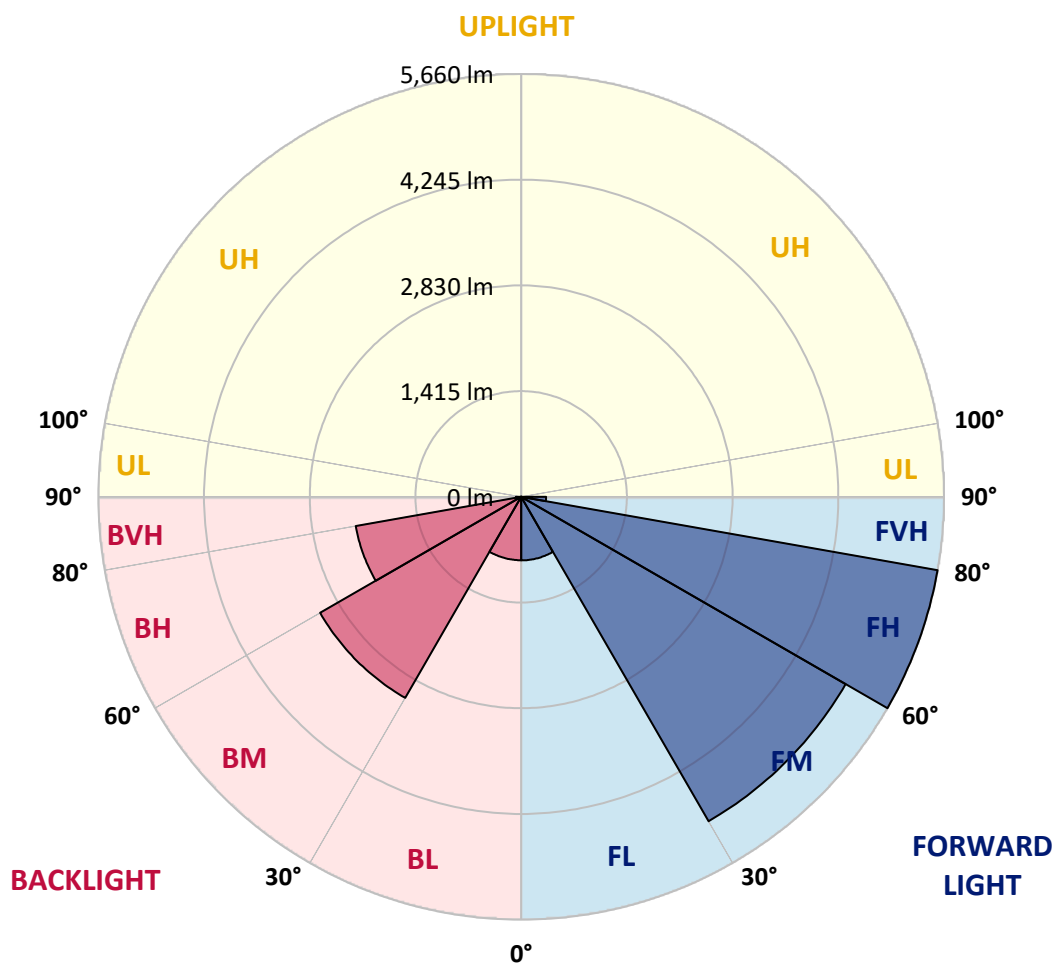
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.7	4.7			
FM	(30°-60°)	5014.8	27.7			
FH	(60°-80°)	5660.2	31.2			G3/7500
FVH	(80°-90°)	333.6	1.8			G3/500
BL	(0°-30°)	848.9	4.7	B2/1000		
BM	(30°-60°)	3107.5	17.1	B3/5000		
BH	(60°-80°)	2248.2	12.4	B3/2500		G3/2500
BVH	(80°-90°)	70.7	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°	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1953.2	1953.2	1954.4	1953.2	1953.2	1952.0	1956.7	1956.7	1956.7	1955.6	1959.1
5°	1948.4	1948.4	1949.6	1949.6	1950.8	1949.6	1953.2	1954.4	1954.4	1954.4	1957.9
7.5°	1936.6	1940.1	1937.8	1939.0	1940.1	1943.7	1948.4	1950.8	1953.2	1956.7	1957.9
10°	1911.7	1917.6	1916.4	1920.0	1921.2	1931.8	1935.4	1940.1	1948.4	1953.2	1956.7
12.5°	1877.3	1880.8	1882.0	1886.8	1891.5	1904.6	1914.1	1922.4	1934.2	1946.1	1957.9
15°	1850.0	1852.4	1852.4	1857.1	1864.2	1876.1	1888.0	1902.2	1920.0	1940.1	1959.1
17.5°	1858.3	1864.2	1859.5	1858.3	1860.7	1867.8	1878.5	1890.3	1911.7	1934.2	1956.7
20°	1912.9	1914.1	1911.7	1905.8	1901.0	1902.2	1902.2	1904.6	1917.6	1935.4	1953.2
22.5°	1957.9	1962.7	1961.5	1962.7	1961.5	1966.2	1963.9	1959.1	1954.4	1955.6	1963.9
25°	1997.1	2001.8	2001.8	2005.4	2011.3	2020.8	2027.9	2026.7	2019.6	2010.1	2006.6
27.5°	2061.1	2061.1	2061.1	2064.7	2073.0	2084.8	2096.7	2103.8	2109.7	2100.2	2080.1
30°	2161.9	2163.1	2159.5	2160.7	2166.7	2182.1	2196.3	2207.0	2218.8	2217.6	2191.6
32.5°	2272.2	2276.9	2275.8	2280.5	2288.8	2303.0	2318.4	2335.0	2350.5	2360.0	2343.3
35°	2414.5	2419.2	2420.4	2427.5	2437.0	2458.4	2479.7	2501.1	2517.7	2524.8	2521.2
37.5°	2648.1	2649.3	2644.6	2633.9	2637.5	2654.1	2679.0	2713.4	2724.0	2731.1	2747.7
40°	2998.0	2994.4	2975.4	2966.0	2960.0	2967.1	2962.4	2989.7	3014.6	3015.8	3014.6
42.5°	3422.5	3411.9	3394.1	3391.7	3389.3	3386.9	3373.9	3375.1	3397.6	3403.5	3396.4
45°	3844.7	3831.7	3818.6	3830.5	3816.2	3853.0	3863.7	3892.1	3895.7	3907.6	3889.8
47.5°	4191.0	4192.2	4192.2	4208.8	4237.2	4307.2	4370.1	4424.6	4444.8	4473.2	4476.8
50°	4453.1	4460.2	4482.7	4536.1	4596.6	4714.0	4819.5	4918.0	5006.9	5040.1	5127.9
52.5°	4606.1	4625.0	4672.5	4761.4	4869.3	5021.1	5187.2	5354.4	5508.5	5639.0	5743.3
55°	4578.8	4593.0	4676.0	4814.8	4983.2	5187.2	5419.6	5661.5	5902.3	6122.8	6293.6
57.5°	4403.3	4412.8	4495.8	4652.3	4862.2	5136.2	5464.7	5824.0	6162.0	6517.7	6809.5
60°	4173.2	4187.4	4264.5	4387.9	4607.2	4899.0	5279.7	5767.1	6306.6	6866.4	7411.9
62.5°	4026.2	4022.6	4090.2	4200.5	4365.3	4629.8	4996.2	5573.8	6320.9	7267.2	8345.2
65°	3781.9	3771.2	3841.1	3966.9	4145.9	4402.1	4749.6	5304.6	6171.5	7419.0	8947.7
66°	3630.1	3608.7	3678.7	3805.6	3984.6	4257.4	4590.6	5138.5	5990.0	7270.8	8883.6
67.5°	3364.4	3353.7	3386.9	3486.6	3619.4	3875.5	4223.0	4774.5	5560.7	6824.9	8414.0
70°	2734.7	2711.0	2737.1	2782.1	2833.1	2896.0	3109.4	3547.0	4212.3	5437.4	6778.6
72.5°	1863.1	1851.2	1899.8	1968.6	2105.0	2169.0	2253.2	2324.4	2559.2	3427.3	4728.2
75°	1417.2	1424.3	1485.9	1599.8	1775.3	1965.0	2150.0	2217.6	2139.4	2071.8	2683.7
77.5°	794.6	836.1	910.8	1055.5	1241.6	1509.7	1832.2	2188.0	2365.9	2322.0	2171.4
80°	327.3	321.4	358.1	437.6	501.6	721.0	1102.9	1548.8	2049.2	2365.9	2316.1
82.5°	91.3	93.7	121.0	155.4	200.4	255.0	398.5	640.4	1043.6	1623.5	2125.1
85°	28.5	28.5	39.1	58.1	68.8	79.5	100.8	166.0	283.4	565.7	1146.8
87.5°	5.9	5.9	8.3	16.6	17.8	17.8	22.5	30.8	27.3	24.9	111.5
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1955.6	1953.2	1954.4	1955.6	1954.4	1954.4	1953.2	1952.0	1953.2	1953.2	1956.7
5°	1954.4	1953.2	1954.4	1954.4	1954.4	1955.6	1955.6	1955.6	1959.1	1959.1	1965.0
7.5°	1956.7	1956.7	1959.1	1959.1	1959.1	1959.1	1960.3	1962.7	1968.6	1967.4	1978.1
10°	1961.5	1963.9	1969.8	1971.0	1971.0	1974.5	1976.9	1981.6	1987.6	1990.0	1999.4
12.5°	1967.4	1979.3	1990.0	1992.3	1995.9	2001.8	2005.4	2007.7	2018.4	2022.0	2033.8
15°	1974.5	1991.1	2004.2	2008.9	2013.7	2020.8	2025.5	2029.1	2038.6	2043.3	2057.5
17.5°	1975.7	1994.7	2010.1	2017.2	2023.2	2031.5	2038.6	2045.7	2056.4	2063.5	2077.7
20°	1974.5	1999.4	2023.2	2032.6	2038.6	2054.0	2064.7	2074.1	2087.2	2094.3	2108.5
22.5°	1987.6	2016.0	2048.1	2059.9	2069.4	2090.8	2105.0	2120.4	2137.0	2141.7	2152.4
25°	2018.4	2048.1	2088.4	2105.0	2121.6	2150.0	2170.2	2192.7	2209.3	2211.7	2215.3
27.5°	2070.6	2097.9	2146.5	2171.4	2198.7	2239.0	2268.6	2291.2	2314.9	2314.9	2312.5
30°	2176.1	2182.1	2233.1	2265.1	2305.4	2364.7	2408.6	2433.5	2451.3	2451.3	2431.1
32.5°	2312.5	2305.4	2351.7	2386.0	2441.8	2524.8	2584.1	2603.1	2622.0	2616.1	2581.7
35°	2509.4	2489.2	2515.3	2567.5	2630.3	2744.2	2805.9	2848.5	2860.4	2843.8	2789.3
37.5°	2757.2	2754.9	2767.9	2826.0	2896.0	3043.0	3105.9	3133.2	3123.7	3094.0	2998.0
40°	3019.3	3012.2	3003.9	3043.0	3121.3	3298.0	3409.5	3423.7	3410.7	3366.8	3245.8
42.5°	3369.2	3369.2	3330.0	3340.7	3405.9	3604.0	3735.6	3780.7	3781.9	3717.8	3556.5
45°	3850.6	3845.9	3777.1	3760.5	3810.3	4004.8	4174.4	4199.3	4199.3	4115.1	3938.4
47.5°	4429.4	4423.4	4355.8	4297.7	4307.2	4517.1	4658.2	4696.2	4663.0	4600.1	4390.2
50°	5081.6	5070.9	5002.2	4947.6	4923.9	5136.2	5255.9	5273.7	5225.1	5150.4	4922.7
52.5°	5743.3	5775.4	5735.0	5705.4	5713.7	5851.3	5974.6	5890.4	5865.5	5784.8	5556.0
55°	6432.4	6530.8	6619.7	6593.6	6624.5	6758.5	6782.2	6670.7	6625.7	6567.5	6312.6
57.5°	7126.1	7413.1	7704.8	7786.7	7862.6	8054.7	8027.4	7844.8	7879.2	7965.7	7678.7
60°	8095.0	8923.9	9663.9	9800.3	10036.3	10200.0	10236.7	10201.2	10361.3	10316.2	10062.4
62.5°	9583.3	10964.9	11994.3	12250.4	12487.6	12479.3	12354.8	12226.7	12384.4	12384.4	11721.5
65°	10645.9	12213.6	13315.4	13527.6	13518.1	13232.3	12938.2	12682.1	12659.5	12484.0	11515.1
66°	10695.7	12309.7	13388.9	13573.9	13502.7	13042.6	12690.4	12365.4	12226.7	11982.4	10989.8
67.5°	10247.4	12038.1	13149.3	13310.6	13123.2	12463.9	11978.8	11543.6	11342.0	10930.5	9996.0
70°	8405.7	10345.8	11962.2	12291.9	12079.6	11244.8	10580.7	9992.4	9607.0	9012.9	8339.3
72.5°	6135.9	7638.4	9388.8	9924.8	9891.6	9123.2	8588.3	8049.9	7543.5	7002.8	6510.6
75°	3988.2	4968.9	5944.9	6258.0	6107.4	5662.7	5279.7	4965.4	4485.1	4109.2	4017.8
77.5°	2276.9	2782.1	2631.5	2592.4	2403.8	1940.1	1290.3	904.8	817.1	1019.9	1118.3
80°	2166.7	1963.9	1608.1	1450.4	1333.0	908.4	476.7	335.6	294.1	301.2	323.8
82.5°	2443.0	2546.1	2082.5	1739.7	1514.4	1105.3	603.6	281.1	205.2	243.1	272.8
85°	1831.0	2578.2	2555.6	2165.5	1776.5	1273.7	713.9	214.6	123.3	170.8	223.0
87.5°	371.2	610.7	588.2	517.1	440.0	307.1	119.8	67.6	61.7	84.2	128.1
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°	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1959.1	1959.1	1961.5	1965.0	1966.2	1966.2	1968.6	1966.2	1971.0	1972.2	1973.3
5°	1969.8	1973.3	1975.7	1981.6	1985.2	1987.6	1991.1	1988.8	1993.5	1994.7	1997.1
7.5°	1981.6	1987.6	1992.3	1994.7	1999.4	1999.4	2000.6	1998.3	1997.1	1993.5	1992.3
10°	2003.0	2006.6	2012.5	2010.1	2007.7	1999.4	1992.3	1981.6	1975.7	1965.0	1959.1
12.5°	2037.4	2039.8	2039.8	2029.1	2013.7	1994.7	1976.9	1959.1	1944.9	1933.0	1925.9
15°	2061.1	2065.8	2059.9	2044.5	2022.0	1995.9	1972.2	1948.4	1929.5	1914.1	1904.6
17.5°	2078.9	2077.7	2067.0	2045.7	2024.3	2001.8	1980.5	1955.6	1931.8	1909.3	1895.1
20°	2106.2	2094.3	2075.3	2052.8	2030.3	2011.3	1994.7	1971.0	1946.1	1915.2	1893.9
22.5°	2142.9	2121.6	2094.3	2070.6	2049.2	2031.5	2012.5	1992.3	1966.2	1931.8	1902.2
25°	2195.1	2158.3	2127.5	2103.8	2084.8	2064.7	2043.3	2017.2	1991.1	1955.6	1920.0
27.5°	2274.6	2220.0	2180.9	2159.5	2141.7	2114.5	2087.2	2056.4	2023.2	1986.4	1946.1
30°	2370.6	2305.4	2260.3	2241.4	2220.0	2189.2	2159.5	2116.8	2070.6	2026.7	1976.9
32.5°	2483.3	2416.9	2371.8	2357.6	2323.2	2287.6	2246.1	2189.2	2128.7	2063.5	2004.2
35°	2654.1	2569.9	2528.4	2495.1	2447.7	2405.0	2335.0	2260.3	2173.8	2087.2	2013.7
37.5°	2829.6	2744.2	2701.5	2655.2	2593.6	2515.3	2421.6	2314.9	2199.9	2093.1	2003.0
40°	3064.4	2971.9	2917.3	2846.2	2746.6	2624.4	2485.7	2339.8	2199.9	2067.0	1957.9
42.5°	3338.3	3252.9	3168.7	3051.3	2891.2	2713.4	2518.9	2331.5	2161.9	2008.9	1893.9
45°	3717.8	3571.9	3437.9	3249.4	3015.8	2765.5	2522.4	2292.4	2096.7	1927.1	1799.0
47.5°	4144.7	3956.2	3719.0	3423.7	3104.7	2785.7	2488.0	2218.8	1993.5	1809.7	1669.8
50°	4636.9	4347.5	3983.5	3562.5	3149.8	2758.4	2406.2	2095.5	1851.2	1640.1	1490.7
52.5°	5200.2	4759.0	4223.0	3660.9	3142.7	2675.4	2271.0	1933.0	1660.3	1436.1	1289.1
55°	5825.2	5207.3	4451.9	3723.7	3078.6	2514.1	2058.7	1704.1	1423.1	1202.5	1073.2
57.5°	6926.9	5993.6	4888.3	3807.9	2944.6	2269.8	1789.5	1414.8	1161.0	973.6	850.3
60°	8973.7	7368.0	5714.9	4006.0	2743.0	1963.9	1450.4	1110.0	897.7	761.4	670.0
62.5°	10240.3	8335.7	6118.1	3977.5	2415.7	1545.2	1076.8	823.0	655.8	565.7	508.8
65°	9940.3	7956.2	5625.9	3416.6	1879.7	1095.8	712.7	538.4	450.6	404.4	377.1
66°	9532.3	7531.7	5209.7	3059.6	1637.7	915.5	588.2	451.8	387.8	353.4	339.2
67.5°	8677.3	6756.1	4493.4	2450.1	1227.4	681.9	434.0	354.6	315.5	297.7	288.2
70°	7262.5	5443.3	3178.2	1446.8	665.3	370.0	277.5	246.7	237.2	231.3	227.7
72.5°	5615.3	3940.8	1857.1	711.5	335.6	239.6	211.1	198.0	194.5	194.5	195.7
75°	3537.6	2265.1	831.3	342.7	227.7	193.3	180.3	174.3	175.5	176.7	175.5
77.5°	1175.2	781.5	346.3	243.1	198.0	175.5	164.8	162.5	164.8	166.0	166.0
80°	338.0	295.3	250.2	214.6	181.4	163.7	154.2	153.0	158.9	160.1	157.7
82.5°	259.7	243.1	226.5	207.5	174.3	154.2	150.6	151.8	155.4	153.0	142.3
85°	238.4	236.0	169.6	168.4	151.8	147.1	143.5	144.7	141.1	128.1	116.2
87.5°	134.0	124.5	96.1	97.2	112.7	116.2	96.1	102.0	94.9	83.0	75.9
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):

	160°	165°	170°	175°	180°
0°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1975.7	1974.5	1974.5	1978.1	1973.3
5°	1998.3	1997.1	1997.1	2000.6	1997.1
7.5°	1987.6	1984.0	1981.6	1980.5	1980.5
10°	1952.0	1948.4	1941.3	1939.0	1936.6
12.5°	1915.2	1911.7	1903.4	1903.4	1901.0
15°	1892.7	1888.0	1882.0	1878.5	1876.1
17.5°	1880.8	1873.7	1866.6	1863.1	1860.7
20°	1876.1	1866.6	1858.3	1852.4	1852.4
22.5°	1877.3	1865.4	1855.9	1848.8	1846.5
25°	1889.1	1871.4	1859.5	1852.4	1850.0
27.5°	1905.8	1884.4	1869.0	1859.5	1855.9
30°	1928.3	1898.6	1877.3	1865.4	1860.7
32.5°	1943.7	1902.2	1874.9	1858.3	1852.4
35°	1942.5	1889.1	1855.9	1834.6	1827.5
37.5°	1921.2	1858.3	1814.4	1788.3	1776.5
40°	1873.7	1801.4	1755.1	1730.2	1716.0
42.5°	1804.9	1726.7	1685.2	1657.9	1642.5
45°	1697.0	1619.9	1569.0	1547.6	1527.4
47.5°	1547.6	1469.3	1425.5	1394.6	1381.6
50°	1372.1	1293.8	1247.6	1222.7	1210.8
52.5°	1180.0	1105.3	1072.1	1048.3	1031.7
55°	980.7	912.0	897.7	871.6	856.2
57.5°	793.4	753.1	740.0	713.9	700.9
60°	620.2	607.2	593.0	576.4	569.2
62.5°	480.3	468.4	464.9	454.2	453.0
65°	366.4	367.6	365.3	362.9	360.5
66°	333.2	332.1	333.2	330.9	329.7
67.5°	283.4	288.2	291.7	290.5	290.5
70°	230.1	233.6	238.4	237.2	237.2
72.5°	196.9	202.8	205.2	204.0	204.0
75°	177.9	183.8	183.8	181.4	180.3
77.5°	166.0	168.4	166.0	163.7	161.3
80°	154.2	151.8	148.2	144.7	142.3
82.5°	134.0	128.1	124.5	118.6	118.6
85°	107.9	103.2	94.9	88.9	83.0
87.5°	70.0	67.6	61.7	46.3	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)