

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: P159575

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159575
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17673.3 lumens
Efficiency: N/A
Efficacy: 97.9 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

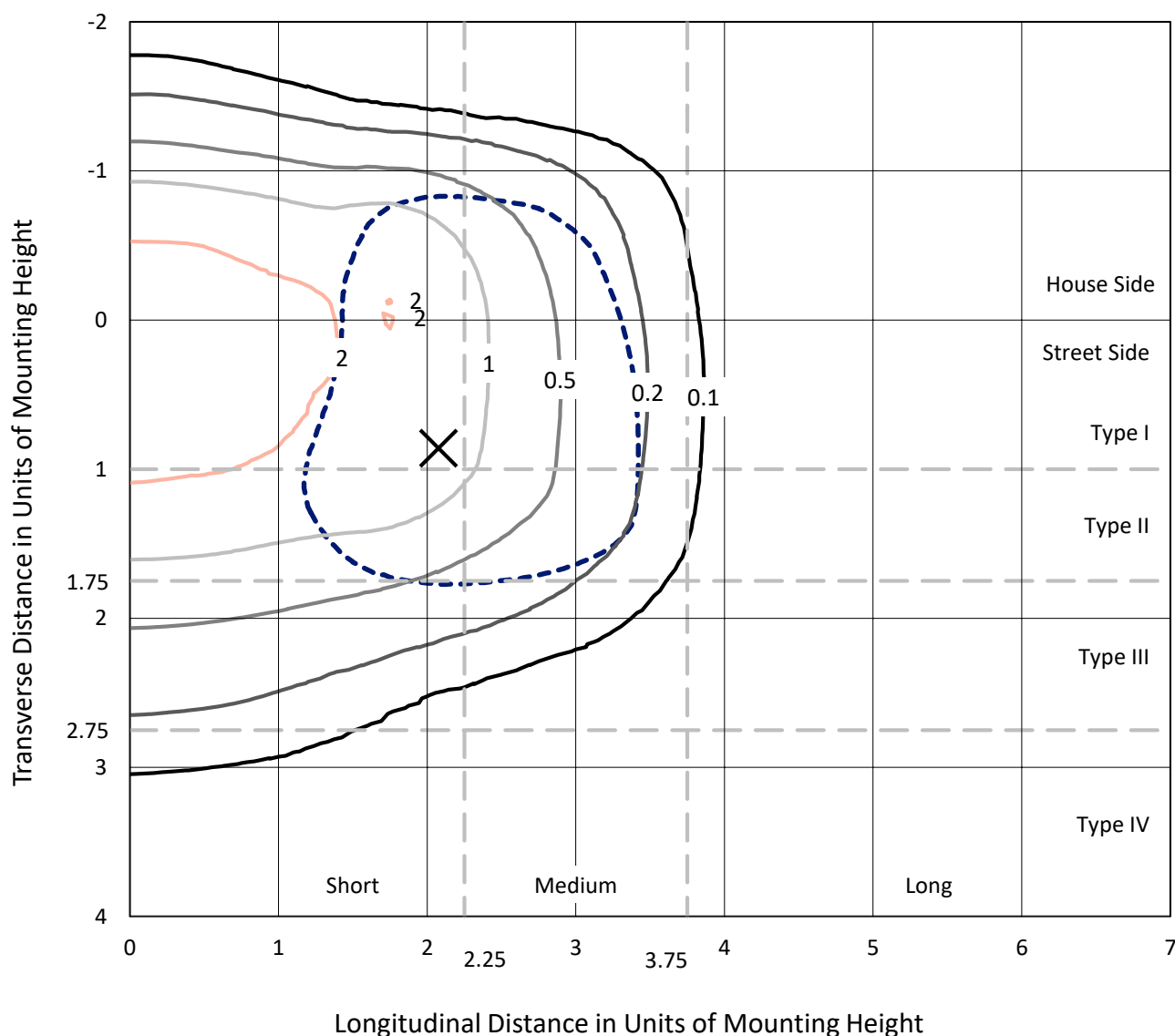


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

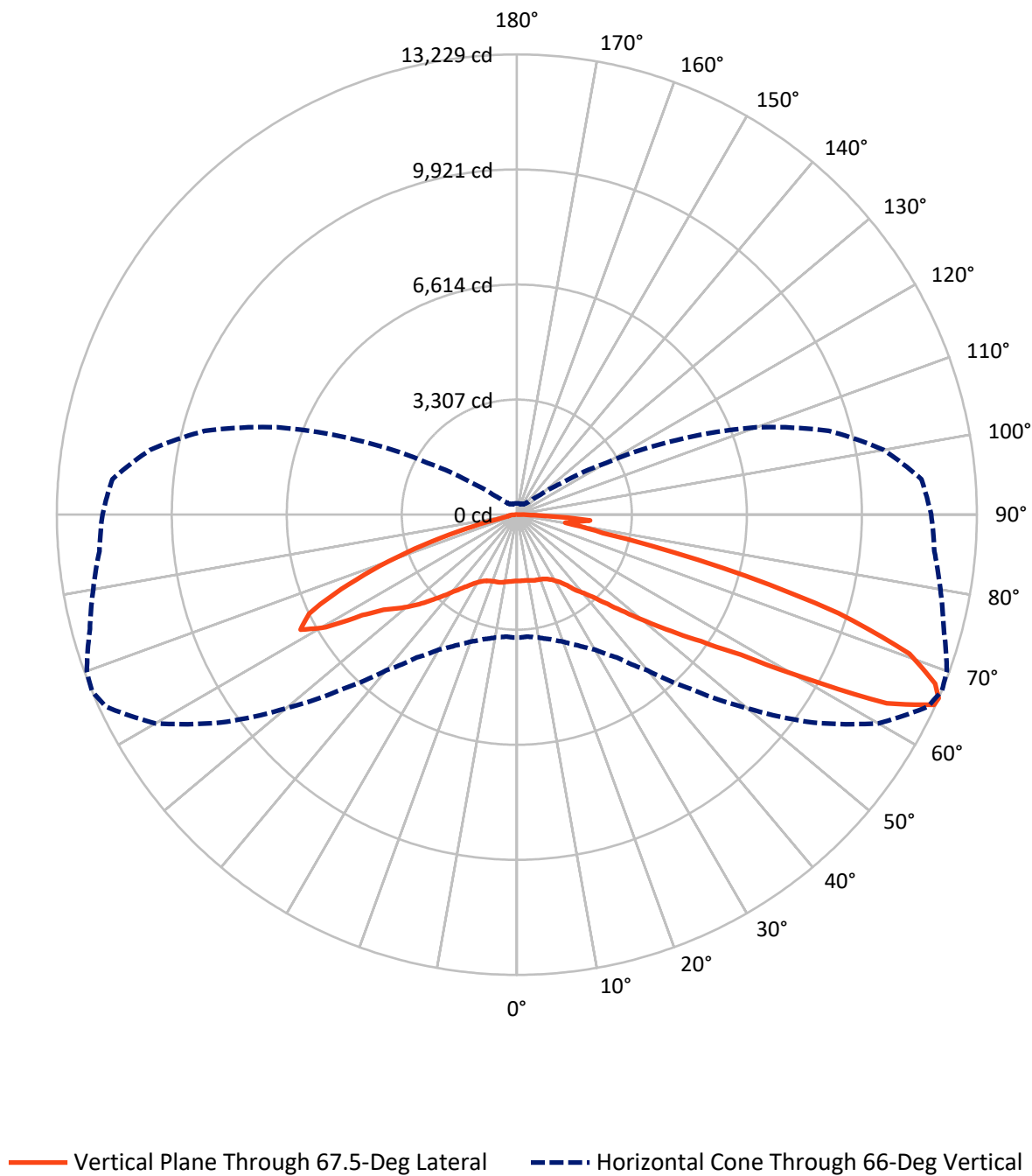


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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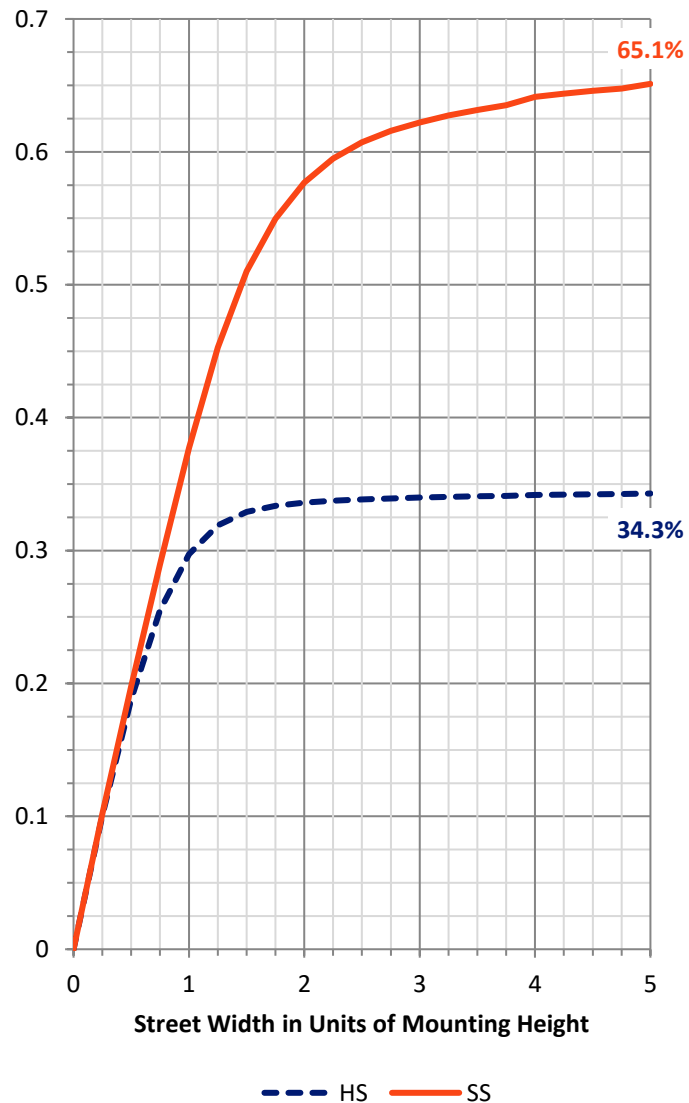
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6115.7	0.0	6115.7
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	11557.5	0.0	11557.5
	% Fixture	65.4	0.0	65.4
Total	Lumens	17673.3	0.0	17673.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.0
10°-20°	541.9	3.1
20°-30°	931.5	5.3
30°-40°	1505.4	8.5
40°-50°	2494.8	14.1
50°-60°	3915.4	22.2
60°-70°	5353.1	30.3
70°-80°	2354.1	13.3
80°-90°	394.0	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°	17673.3	100.0
0°-180°	17673.3	100.0

Coefficient of Utilization



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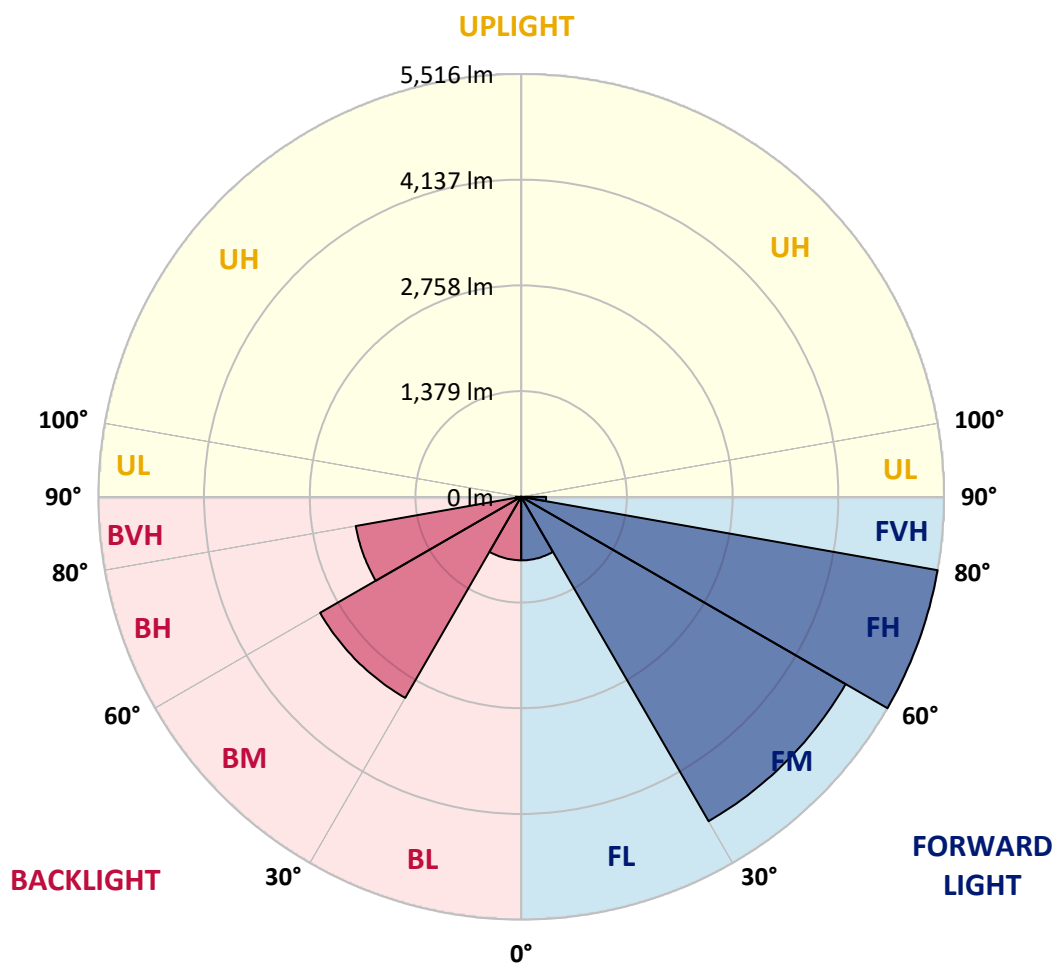
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	829.0	4.7			
FM	(30°-60°)	4887.2	27.7			
FH	(60°-80°)	5516.2	31.2			G3/7500
FVH	(80°-90°)	325.1	1.8			G3/500
BL	(0°-30°)	827.3	4.7	B2/1000		
BM	(30°-60°)	3028.5	17.1	B3/5000		
BH	(60°-80°)	2191.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	68.9	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°	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0
2.5°	1903.5	1903.5	1904.7	1903.5	1903.5	1902.3	1907.0	1907.0	1907.0	1905.8	1909.3
5°	1898.9	1898.9	1900.0	1900.0	1901.2	1900.0	1903.5	1904.7	1904.7	1904.7	1908.1
7.5°	1887.3	1890.8	1888.5	1889.6	1890.8	1894.2	1898.9	1901.2	1903.5	1907.0	1908.1
10°	1863.0	1868.8	1867.7	1871.1	1872.3	1882.7	1886.2	1890.8	1898.9	1903.5	1907.0
12.5°	1829.5	1833.0	1834.2	1838.8	1843.4	1856.1	1865.4	1873.4	1885.0	1896.6	1908.1
15°	1802.9	1805.3	1805.3	1809.9	1816.8	1828.4	1839.9	1853.8	1871.1	1890.8	1909.3
17.5°	1811.0	1816.8	1812.2	1811.0	1813.3	1820.3	1830.7	1842.2	1863.0	1885.0	1907.0
20°	1864.2	1865.4	1863.0	1857.3	1852.6	1853.8	1853.8	1856.1	1868.8	1886.2	1903.5
22.5°	1908.1	1912.7	1911.6	1912.7	1911.6	1916.2	1913.9	1909.3	1904.7	1905.8	1913.9
25°	1946.3	1950.9	1950.9	1954.3	1960.1	1969.4	1976.3	1975.2	1968.2	1959.0	1955.5
27.5°	2008.7	2008.7	2008.7	2012.1	2020.2	2031.8	2043.3	2050.3	2056.1	2046.8	2027.2
30°	2106.9	2108.1	2104.6	2105.7	2111.5	2126.6	2140.4	2150.8	2162.4	2161.2	2135.8
32.5°	2214.4	2219.0	2217.9	2222.5	2230.6	2244.4	2259.5	2275.6	2290.7	2299.9	2283.7
35°	2353.1	2357.7	2358.9	2365.8	2375.0	2395.8	2416.6	2437.4	2453.6	2460.6	2457.1
37.5°	2580.8	2581.9	2577.3	2566.9	2570.4	2586.5	2610.8	2644.3	2654.7	2661.7	2677.8
40°	2921.7	2918.2	2899.7	2890.5	2884.7	2891.6	2887.0	2913.6	2937.9	2939.0	2937.9
42.5°	3335.5	3325.0	3307.7	3305.4	3303.1	3300.8	3288.1	3289.2	3311.2	3317.0	3310.0
45°	3746.9	3734.2	3721.5	3733.0	3719.2	3755.0	3765.4	3793.1	3796.6	3808.1	3790.8
47.5°	4084.4	4085.5	4085.5	4101.7	4129.4	4197.6	4258.9	4312.0	4331.7	4359.4	4362.9
50°	4339.8	4346.7	4368.7	4420.7	4479.6	4594.0	4696.9	4792.8	4879.5	4911.9	4997.4
52.5°	4488.9	4507.4	4553.6	4640.3	4745.4	4893.4	5055.2	5218.1	5368.4	5495.5	5597.2
55°	4462.3	4476.2	4557.1	4692.3	4856.4	5055.2	5281.7	5517.5	5752.1	5967.1	6133.5
57.5°	4291.2	4300.5	4381.4	4533.9	4738.5	5005.5	5325.6	5675.8	6005.2	6351.9	6636.2
60°	4067.0	4080.9	4156.0	4276.2	4490.0	4774.3	5145.3	5620.3	6146.2	6691.7	7223.3
62.5°	3923.7	3920.3	3986.1	4093.6	4254.3	4512.0	4869.1	5432.0	6160.1	7082.3	8132.9
65°	3685.6	3675.2	3743.4	3865.9	4040.4	4290.1	4628.7	5169.6	6014.4	7230.3	8720.0
66°	3537.7	3516.9	3585.1	3708.8	3883.3	4149.1	4473.8	5007.8	5837.6	7085.8	8657.6
67.5°	3278.8	3268.4	3300.8	3397.9	3527.3	3776.9	4115.6	4653.0	5419.2	6651.3	8199.9
70°	2665.1	2642.0	2667.4	2711.4	2761.1	2822.3	3030.3	3456.8	4105.2	5299.0	6606.2
72.5°	1815.7	1804.1	1851.5	1918.5	2051.4	2113.8	2195.9	2265.2	2494.1	3340.1	4607.9
75°	1381.1	1388.0	1448.1	1559.1	1730.1	1915.1	2095.3	2161.2	2084.9	2019.1	2615.4
77.5°	774.3	814.8	887.6	1028.6	1210.1	1471.3	1785.6	2132.3	2305.7	2262.9	2116.2
80°	319.0	313.2	349.0	426.5	488.9	702.7	1074.8	1509.4	1997.1	2305.7	2257.2
82.5°	89.0	91.3	117.9	151.4	195.3	248.5	388.3	624.1	1017.0	1582.2	2071.1
85°	27.7	27.7	38.1	56.6	67.0	77.4	98.2	161.8	276.2	551.3	1117.6
87.5°	5.8	5.8	8.1	16.2	17.3	17.3	22.0	30.0	26.6	24.3	108.6
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°	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0
2.5°	1905.8	1903.5	1904.7	1905.8	1904.7	1904.7	1903.5	1902.3	1903.5	1903.5	1907.0
5°	1904.7	1903.5	1904.7	1904.7	1904.7	1905.8	1905.8	1905.8	1909.3	1909.3	1915.1
7.5°	1907.0	1907.0	1909.3	1909.3	1909.3	1909.3	1910.4	1912.7	1918.5	1917.4	1927.8
10°	1911.6	1913.9	1919.7	1920.8	1920.8	1924.3	1926.6	1931.2	1937.0	1939.3	1948.6
12.5°	1917.4	1928.9	1939.3	1941.6	1945.1	1950.9	1954.3	1956.7	1967.1	1970.5	1982.1
15°	1924.3	1940.5	1953.2	1957.8	1962.4	1969.4	1974.0	1977.5	1986.7	1991.3	2005.2
17.5°	1925.5	1943.9	1959.0	1965.9	1971.7	1979.8	1986.7	1993.6	2004.0	2011.0	2024.8
20°	1924.3	1948.6	1971.7	1980.9	1986.7	2001.7	2012.1	2021.4	2034.1	2041.0	2054.9
22.5°	1937.0	1964.7	1996.0	2007.5	2016.8	2037.6	2051.4	2066.5	2082.6	2087.3	2097.7
25°	1967.1	1996.0	2035.2	2051.4	2067.6	2095.3	2115.0	2137.0	2153.1	2155.4	2158.9
27.5°	2017.9	2044.5	2091.9	2116.2	2142.7	2182.0	2210.9	2232.9	2256.0	2256.0	2253.7
30°	2120.8	2126.6	2176.2	2207.5	2246.7	2304.5	2347.3	2371.6	2388.9	2388.9	2369.3
32.5°	2253.7	2246.7	2291.8	2325.3	2379.7	2460.6	2518.3	2536.8	2555.3	2549.6	2516.0
35°	2445.5	2425.9	2451.3	2502.2	2563.4	2674.4	2734.5	2776.1	2787.6	2771.5	2718.3
37.5°	2687.1	2684.8	2697.5	2754.1	2822.3	2965.6	3026.9	3053.5	3044.2	3015.3	2921.7
40°	2942.5	2935.6	2927.5	2965.6	3041.9	3214.1	3322.7	3336.6	3323.9	3281.1	3163.2
42.5°	3283.4	3283.4	3245.3	3255.7	3319.3	3512.3	3640.6	3684.5	3685.6	3623.2	3466.0
45°	3752.7	3748.0	3681.0	3664.8	3713.4	3902.9	4068.2	4092.5	4092.5	4010.4	3838.2
47.5°	4316.7	4310.9	4245.0	4188.4	4197.6	4402.2	4539.7	4576.7	4544.3	4483.1	4278.5
50°	4952.3	4941.9	4874.9	4821.7	4798.6	5005.5	5122.2	5139.6	5092.2	5019.4	4797.5
52.5°	5597.2	5628.4	5589.1	5560.2	5568.3	5702.4	5822.6	5740.5	5716.3	5637.7	5414.6
55°	6268.7	6364.6	6451.3	6425.9	6455.9	6586.5	6609.6	6501.0	6457.1	6400.5	6152.0
57.5°	6944.8	7224.5	7508.8	7588.6	7662.5	7849.8	7823.2	7645.2	7678.7	7763.1	7483.4
60°	7889.0	8696.9	9418.1	9551.0	9781.0	9940.5	9976.3	9941.6	10097.7	10053.7	9806.4
62.5°	9339.5	10685.9	11689.1	11938.7	12169.9	12161.8	12040.4	11915.6	12069.3	12069.3	11423.3
65°	10375.0	11902.9	12976.6	13183.5	13174.2	12895.7	12609.1	12359.4	12337.5	12166.4	11222.2
66°	10423.6	11996.5	13048.2	13228.5	13159.2	12710.8	12367.5	12050.8	11915.6	11677.5	10710.2
67.5°	9986.7	11731.9	12814.8	12972.0	12789.4	12146.8	11674.1	11249.9	11053.4	10652.4	9741.7
70°	8191.8	10082.6	11657.9	11979.2	11772.3	10958.7	10311.5	9738.2	9362.6	8783.6	8127.1
72.5°	5979.8	7444.1	9150.0	9672.3	9640.0	8891.1	8369.8	7845.1	7351.6	6824.6	6345.0
75°	3886.7	4842.5	5793.7	6098.8	5952.0	5518.6	5145.3	4839.1	4371.0	4004.6	3915.6
77.5°	2219.0	2711.4	2564.6	2526.4	2342.7	1890.8	1257.4	881.8	796.3	993.9	1089.9
80°	2111.5	1913.9	1567.2	1413.5	1299.0	885.3	464.6	327.1	286.6	293.6	315.5
82.5°	2380.8	2481.4	2029.5	1695.5	1475.9	1077.1	588.3	273.9	199.9	236.9	265.8
85°	1784.5	2512.6	2490.6	2110.4	1731.3	1241.3	695.8	209.2	120.2	166.4	217.3
87.5°	361.7	595.2	573.2	503.9	428.8	299.3	116.7	65.9	60.1	82.1	124.8
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°	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0
2.5°	1909.3	1909.3	1911.6	1915.1	1916.2	1916.2	1918.5	1916.2	1920.8	1922.0	1923.1
5°	1919.7	1923.1	1925.5	1931.2	1934.7	1937.0	1940.5	1938.2	1942.8	1943.9	1946.3
7.5°	1931.2	1937.0	1941.6	1943.9	1948.6	1948.6	1949.7	1947.4	1946.3	1942.8	1941.6
10°	1952.0	1955.5	1961.3	1959.0	1956.7	1948.6	1941.6	1931.2	1925.5	1915.1	1909.3
12.5°	1985.6	1987.9	1987.9	1977.5	1962.4	1943.9	1926.6	1909.3	1895.4	1883.8	1876.9
15°	2008.7	2013.3	2007.5	1992.5	1970.5	1945.1	1922.0	1898.9	1880.4	1865.4	1856.1
17.5°	2026.0	2024.8	2014.4	1993.6	1972.8	1950.9	1930.1	1905.8	1882.7	1860.7	1846.9
20°	2052.6	2041.0	2022.5	2000.6	1978.6	1960.1	1943.9	1920.8	1896.6	1866.5	1845.7
22.5°	2088.4	2067.6	2041.0	2017.9	1997.1	1979.8	1961.3	1941.6	1916.2	1882.7	1853.8
25°	2139.3	2103.4	2073.4	2050.3	2031.8	2012.1	1991.3	1965.9	1940.5	1905.8	1871.1
27.5°	2216.7	2163.5	2125.4	2104.6	2087.3	2060.7	2034.1	2004.0	1971.7	1935.9	1896.6
30°	2310.3	2246.7	2202.8	2184.3	2163.5	2133.5	2104.6	2063.0	2017.9	1975.2	1926.6
32.5°	2420.1	2355.4	2311.5	2297.6	2264.1	2229.4	2189.0	2133.5	2074.5	2011.0	1953.2
35°	2586.5	2504.5	2464.0	2431.7	2385.4	2343.8	2275.6	2202.8	2118.5	2034.1	1962.4
37.5°	2757.6	2674.4	2632.8	2587.7	2527.6	2451.3	2360.0	2256.0	2143.9	2039.9	1952.0
40°	2986.4	2896.3	2843.1	2773.8	2676.7	2557.6	2422.4	2280.3	2143.9	2014.4	1908.1
42.5°	3253.4	3170.2	3088.1	2973.7	2817.7	2644.3	2454.8	2272.2	2106.9	1957.8	1845.7
45°	3623.2	3481.1	3350.5	3166.7	2939.0	2695.2	2458.2	2234.0	2043.3	1878.1	1753.2
47.5°	4039.3	3855.5	3624.4	3336.6	3025.7	2714.8	2424.7	2162.4	1942.8	1763.7	1627.3
50°	4518.9	4236.9	3882.1	3471.8	3069.6	2688.2	2345.0	2042.2	1804.1	1598.4	1452.8
52.5°	5067.9	4638.0	4115.6	3567.8	3062.7	2607.3	2213.2	1883.8	1618.0	1399.6	1256.3
55°	5677.0	5074.8	4338.6	3629.0	3000.3	2450.2	2006.4	1660.8	1386.9	1171.9	1045.9
57.5°	6750.6	5841.1	4763.9	3711.1	2869.7	2212.1	1744.0	1378.8	1131.5	948.9	828.7
60°	8745.4	7180.6	5569.5	3904.1	2673.2	1913.9	1413.5	1081.8	874.9	742.0	653.0
62.5°	9979.8	8123.7	5962.4	3876.3	2354.2	1505.9	1049.4	802.1	639.1	551.3	495.8
65°	9687.4	7753.8	5482.8	3329.7	1831.8	1067.9	694.6	524.7	439.2	394.1	367.5
66°	9289.8	7340.1	5077.1	2981.8	1596.1	892.2	573.2	440.3	377.9	344.4	330.5
67.5°	8456.5	6584.2	4379.1	2387.7	1196.2	664.5	423.0	345.6	307.4	290.1	280.8
70°	7077.7	5304.8	3097.4	1410.0	648.4	360.6	270.4	240.4	231.1	225.4	221.9
72.5°	5472.4	3840.5	1809.9	693.4	327.1	233.5	205.7	193.0	189.5	189.5	190.7
75°	3447.6	2207.5	810.2	334.0	221.9	188.4	175.7	169.9	171.0	172.2	171.0
77.5°	1145.3	761.6	337.5	236.9	193.0	171.0	160.6	158.3	160.6	161.8	161.8
80°	329.4	287.8	243.9	209.2	176.8	159.5	150.2	149.1	154.9	156.0	153.7
82.5°	253.1	236.9	220.7	202.3	169.9	150.2	146.8	147.9	151.4	149.1	138.7
85°	232.3	230.0	165.3	164.1	147.9	143.3	139.8	141.0	137.5	124.8	113.3
87.5°	130.6	121.4	93.6	94.8	109.8	113.3	93.6	99.4	92.5	80.9	74.0
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):

	160°	165°	170°	175°	180°
0°	1907.0	1907.0	1907.0	1907.0	1907.0
2.5°	1925.5	1924.3	1924.3	1927.8	1923.1
5°	1947.4	1946.3	1946.3	1949.7	1946.3
7.5°	1937.0	1933.5	1931.2	1930.1	1930.1
10°	1902.3	1898.9	1891.9	1889.6	1887.3
12.5°	1866.5	1863.0	1855.0	1855.0	1852.6
15°	1844.6	1839.9	1834.2	1830.7	1828.4
17.5°	1833.0	1826.1	1819.1	1815.7	1813.3
20°	1828.4	1819.1	1811.0	1805.3	1805.3
22.5°	1829.5	1818.0	1808.7	1801.8	1799.5
25°	1841.1	1823.7	1812.2	1805.3	1802.9
27.5°	1857.3	1836.5	1821.4	1812.2	1808.7
30°	1879.2	1850.3	1829.5	1818.0	1813.3
32.5°	1894.2	1853.8	1827.2	1811.0	1805.3
35°	1893.1	1841.1	1808.7	1787.9	1781.0
37.5°	1872.3	1811.0	1768.3	1742.8	1731.3
40°	1826.1	1755.6	1710.5	1686.2	1672.3
42.5°	1759.0	1682.8	1642.3	1615.7	1600.7
45°	1653.9	1578.7	1529.0	1508.2	1488.6
47.5°	1508.2	1432.0	1389.2	1359.1	1346.4
50°	1337.2	1260.9	1215.8	1191.6	1180.0
52.5°	1150.0	1077.1	1044.8	1021.7	1005.5
55°	955.8	888.8	874.9	849.5	834.4
57.5°	773.2	733.9	721.2	695.8	683.0
60°	604.4	591.7	577.9	561.7	554.8
62.5°	468.1	456.5	453.0	442.6	441.5
65°	357.1	358.3	356.0	353.7	351.3
66°	324.8	323.6	324.8	322.5	321.3
67.5°	276.2	280.8	284.3	283.2	283.2
70°	224.2	227.7	232.3	231.1	231.1
72.5°	191.9	197.6	199.9	198.8	198.8
75°	173.4	179.1	179.1	176.8	175.7
77.5°	161.8	164.1	161.8	159.5	157.2
80°	150.2	147.9	144.5	141.0	138.7
82.5°	130.6	124.8	121.4	115.6	115.6
85°	105.2	100.5	92.5	86.7	80.9
87.5°	68.2	65.9	60.1	45.1	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)