

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: P159584

Luminaire Tested: **VST-F08-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159584
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-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18447.9 lumens
Efficiency: N/A
Efficacy: 90.3 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 (A_{in}): 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

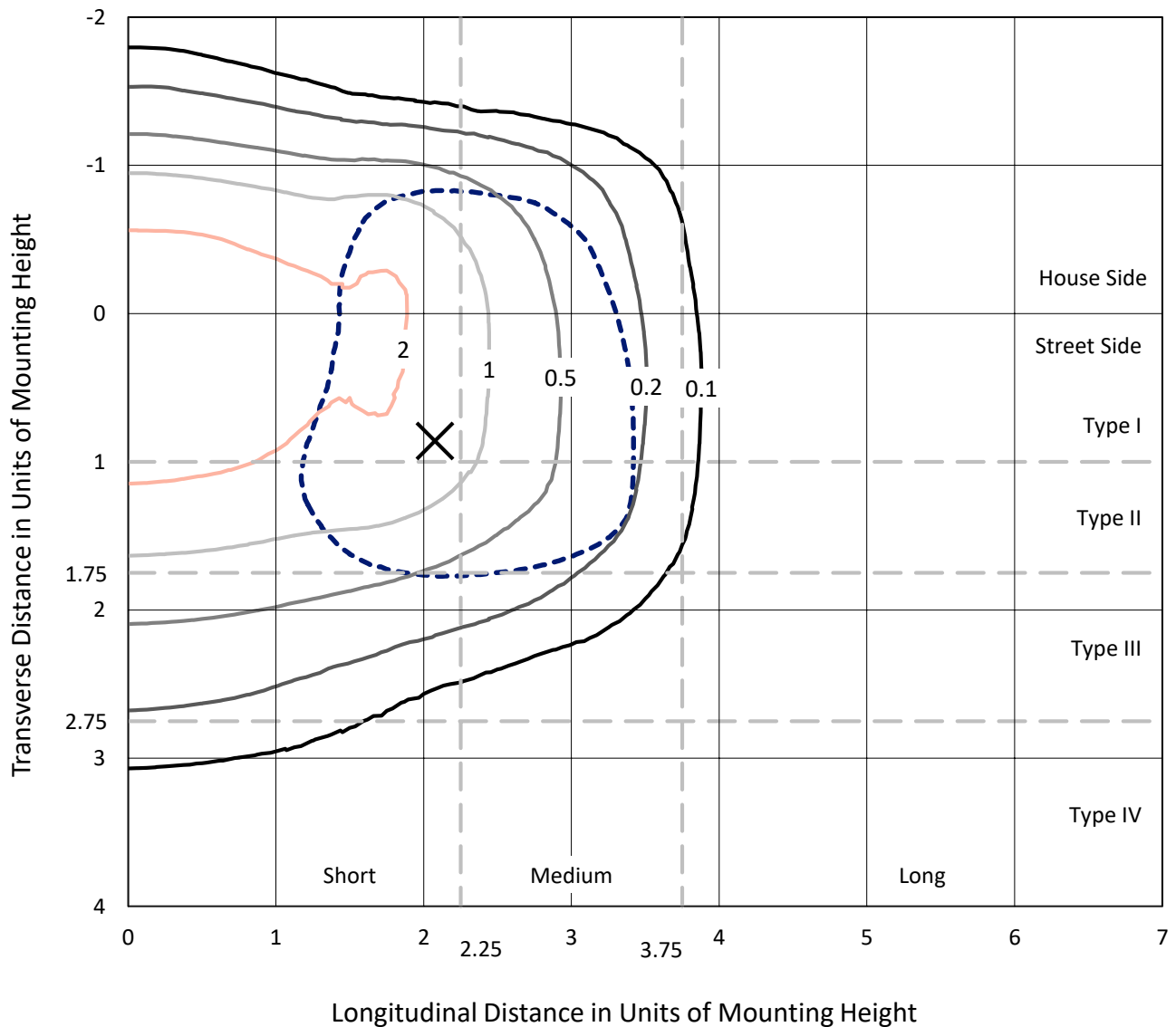


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

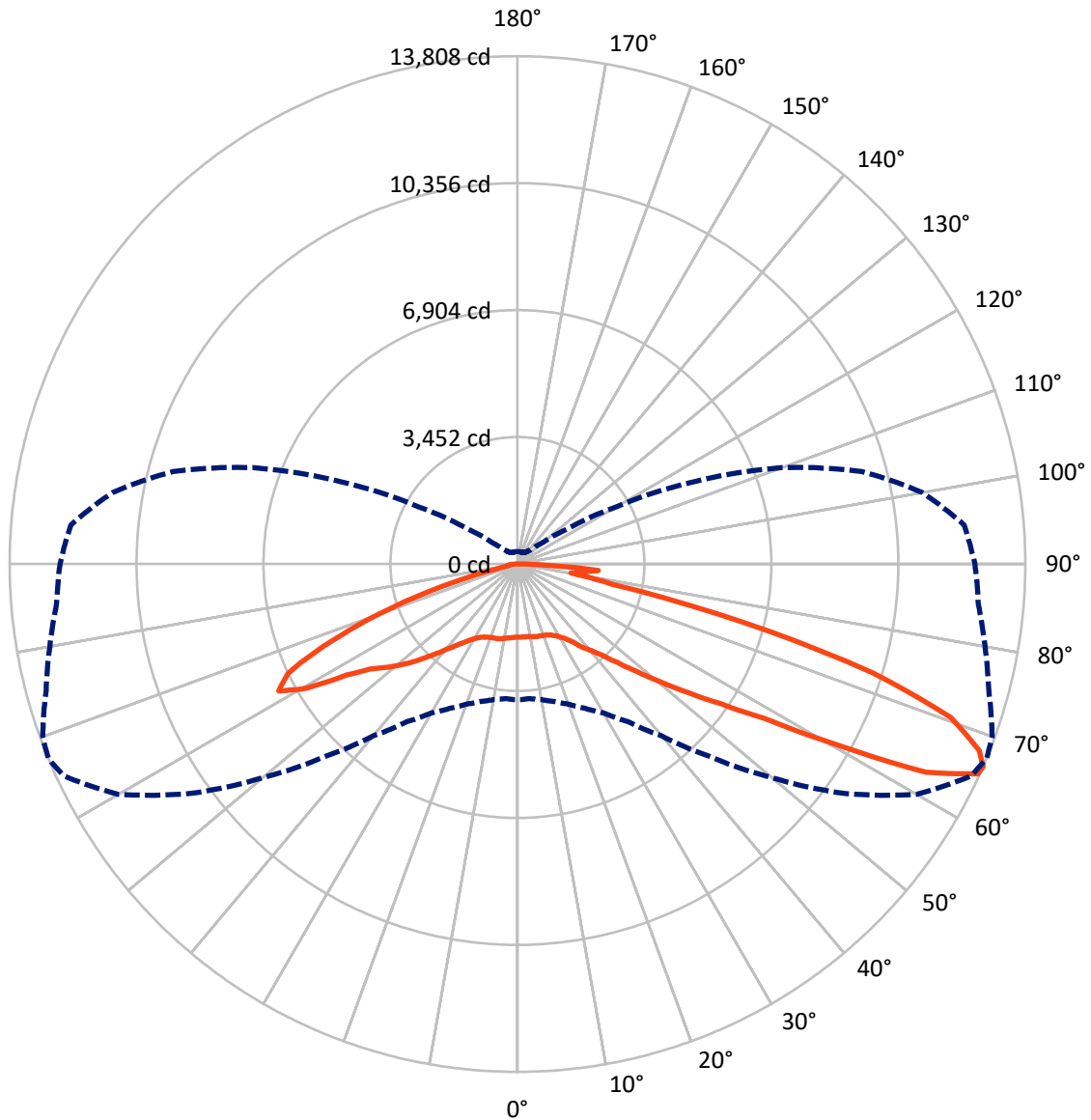


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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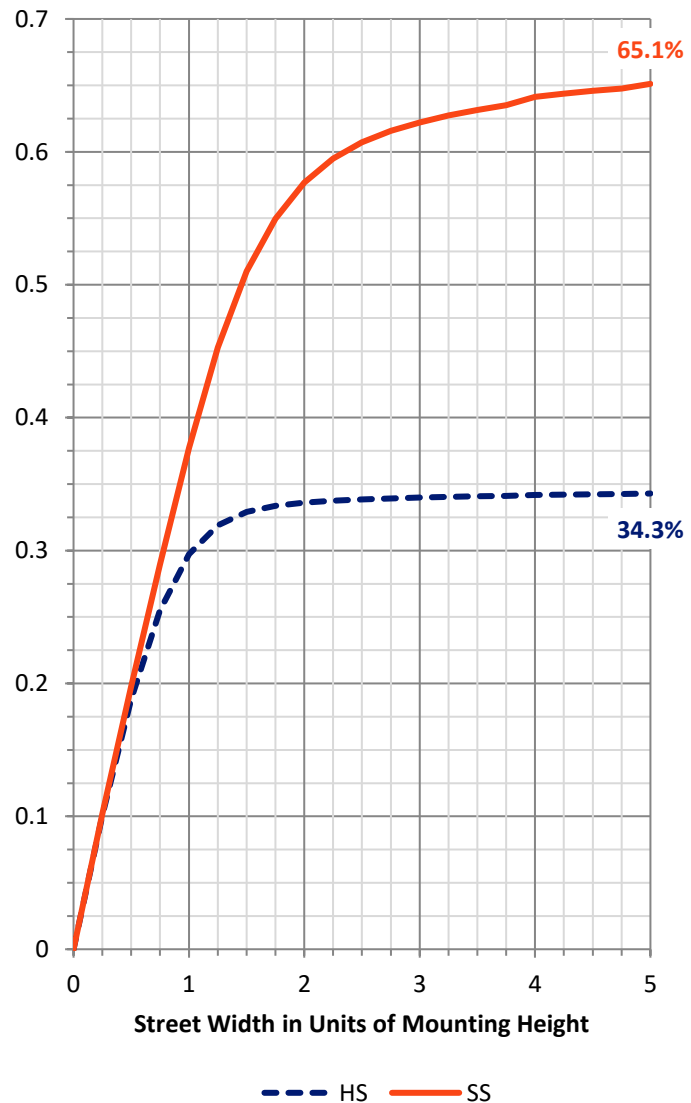
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6383.8	0.0	6383.8
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	12064.1	0.0	12064.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	18447.9	0.0	18447.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.0
10°-20°	565.6	3.1
20°-30°	972.3	5.3
30°-40°	1571.4	8.5
40°-50°	2604.2	14.1
50°-60°	4087.0	22.2
60°-70°	5587.8	30.3
70°-80°	2457.2	13.3
80°-90°	411.3	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°	18447.9	100.0
0°-180°	18447.9	100.0

Coefficient of Utilization



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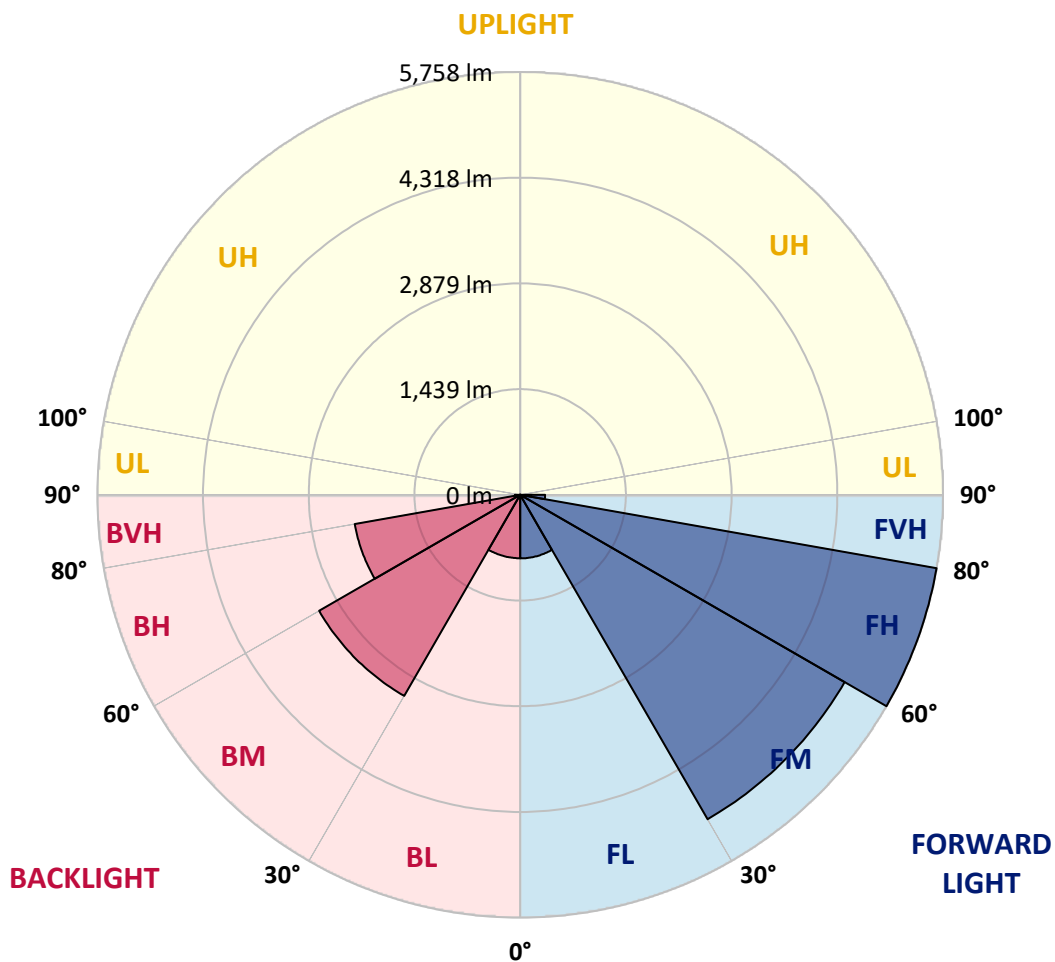
CATALOG NUMBER: VST-F08-LED-E-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.4	4.7			
FM	(30°-60°)	5101.4	27.7			
FH	(60°-80°)	5758.0	31.2			G3/7500
FVH	(80°-90°)	339.3	1.8			G3/500
BL	(0°-30°)	863.6	4.7	B2/1000		
BM	(30°-60°)	3161.2	17.1	B3/5000		
BH	(60°-80°)	2287.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	72.0	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°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1986.9	1986.9	1988.1	1986.9	1986.9	1985.7	1990.5	1990.5	1990.5	1989.3	1993.0
5°	1982.1	1982.1	1983.3	1983.3	1984.5	1983.3	1986.9	1988.1	1988.1	1988.1	1991.7
7.5°	1970.0	1973.7	1971.2	1972.4	1973.7	1977.3	1982.1	1984.5	1986.9	1990.5	1991.7
10°	1944.7	1950.7	1949.5	1953.1	1954.4	1965.2	1968.8	1973.7	1982.1	1986.9	1990.5
12.5°	1909.7	1913.3	1914.5	1919.4	1924.2	1937.5	1947.1	1955.6	1967.6	1979.7	1991.7
15°	1882.0	1884.4	1884.4	1889.2	1896.4	1908.5	1920.6	1935.0	1953.1	1973.7	1993.0
17.5°	1890.4	1896.4	1891.6	1890.4	1892.8	1900.1	1910.9	1923.0	1944.7	1967.6	1990.5
20°	1945.9	1947.1	1944.7	1938.7	1933.8	1935.0	1935.0	1937.5	1950.7	1968.8	1986.9
22.5°	1991.7	1996.6	1995.4	1996.6	1995.4	2000.2	1997.8	1993.0	1988.1	1989.3	1997.8
25°	2031.6	2036.4	2036.4	2040.0	2046.0	2055.7	2062.9	2061.7	2054.5	2044.8	2041.2
27.5°	2096.7	2096.7	2096.7	2100.3	2108.8	2120.8	2132.9	2140.1	2146.2	2136.5	2116.0
30°	2199.2	2200.5	2196.8	2198.0	2204.1	2219.8	2234.2	2245.1	2257.2	2255.9	2229.4
32.5°	2311.4	2316.3	2315.1	2319.9	2328.3	2342.8	2358.5	2375.4	2391.1	2400.7	2383.8
35°	2456.2	2461.0	2462.2	2469.5	2479.1	2500.8	2522.6	2544.3	2561.2	2568.4	2564.8
37.5°	2693.9	2695.1	2690.2	2679.4	2683.0	2699.9	2725.2	2760.2	2771.1	2778.3	2795.2
40°	3049.8	3046.1	3026.8	3017.2	3011.1	3018.4	3013.6	3041.3	3066.6	3067.8	3066.6
42.5°	3481.6	3470.8	3452.7	3450.3	3447.9	3445.4	3432.2	3433.4	3456.3	3462.3	3455.1
45°	3911.1	3897.8	3884.6	3896.6	3882.2	3919.6	3930.4	3959.4	3963.0	3975.1	3957.0
47.5°	4263.4	4264.6	4264.6	4281.5	4310.4	4381.6	4445.5	4501.0	4521.5	4550.5	4554.1
50°	4530.0	4537.2	4560.2	4614.4	4676.0	4795.4	4902.8	5002.9	5093.4	5127.2	5216.4
52.5°	4685.6	4704.9	4753.2	4843.7	4953.4	5107.9	5276.7	5446.8	5603.7	5736.4	5842.5
55°	4657.9	4672.3	4756.8	4897.9	5069.2	5276.7	5513.2	5759.3	6004.2	6228.6	6402.3
57.5°	4479.3	4489.0	4573.4	4732.7	4946.2	5224.9	5559.0	5924.6	6268.4	6630.3	6927.1
60°	4245.3	4259.8	4338.2	4463.6	4686.8	4983.6	5370.8	5866.7	6415.6	6985.0	7539.9
62.5°	4095.7	4092.1	4160.8	4273.0	4440.7	4709.7	5082.5	5670.0	6430.1	7392.8	8489.4
65°	3847.2	3836.3	3907.5	4035.4	4217.5	4478.1	4831.6	5396.2	6278.1	7547.2	9102.2
66°	3692.8	3671.0	3742.2	3871.3	4053.5	4330.9	4669.9	5227.3	6093.5	7396.4	9037.1
67.5°	3422.5	3411.7	3445.4	3546.8	3681.9	3942.5	4296.0	4856.9	5656.8	6942.8	8559.3
70°	2781.9	2757.8	2784.3	2830.2	2882.1	2946.0	3163.2	3608.3	4285.1	5531.3	6895.7
72.5°	1895.2	1883.2	1932.6	2002.6	2141.3	2206.5	2292.1	2364.5	2603.4	3486.5	4809.9
75°	1441.6	1448.9	1511.6	1627.4	1806.0	1999.0	2187.2	2255.9	2176.3	2107.6	2730.1
77.5°	808.3	850.5	926.5	1073.7	1263.1	1535.7	1863.9	2225.8	2406.7	2362.1	2208.9
80°	333.0	326.9	364.3	445.2	510.3	733.5	1121.9	1575.5	2084.6	2406.7	2356.1
82.5°	92.9	95.3	123.1	158.0	203.9	259.4	405.3	651.5	1061.6	1651.5	2161.9
85°	29.0	29.0	39.8	59.1	70.0	80.8	102.5	168.9	288.3	575.4	1166.6
87.5°	6.0	6.0	8.4	16.9	18.1	18.1	22.9	31.4	27.7	25.3	113.4
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1989.3	1986.9	1988.1	1989.3	1988.1	1988.1	1986.9	1985.7	1986.9	1986.9	1990.5
5°	1988.1	1986.9	1988.1	1988.1	1988.1	1989.3	1989.3	1989.3	1993.0	1993.0	1999.0
7.5°	1990.5	1990.5	1993.0	1993.0	1993.0	1993.0	1994.2	1996.6	2002.6	2001.4	2012.3
10°	1995.4	1997.8	2003.8	2005.0	2005.0	2008.6	2011.1	2015.9	2021.9	2024.3	2034.0
12.5°	2001.4	2013.5	2024.3	2026.7	2030.4	2036.4	2040.0	2042.4	2053.3	2056.9	2069.0
15°	2008.6	2025.5	2038.8	2043.6	2048.4	2055.7	2060.5	2064.1	2073.8	2078.6	2093.1
17.5°	2009.8	2029.1	2044.8	2052.1	2058.1	2066.5	2073.8	2081.0	2091.9	2099.1	2113.6
20°	2008.6	2034.0	2058.1	2067.8	2073.8	2089.5	2100.3	2110.0	2123.2	2130.5	2145.0
22.5°	2021.9	2050.9	2083.4	2095.5	2105.1	2126.9	2141.3	2157.0	2173.9	2178.7	2189.6
25°	2053.3	2083.4	2124.5	2141.3	2158.2	2187.2	2207.7	2230.6	2247.5	2249.9	2253.5
27.5°	2106.4	2134.1	2183.6	2208.9	2236.6	2277.7	2307.8	2330.7	2354.9	2354.9	2352.5
30°	2213.7	2219.8	2271.6	2304.2	2345.2	2405.5	2450.2	2475.5	2493.6	2493.6	2473.1
32.5°	2352.5	2345.2	2392.3	2427.3	2484.0	2568.4	2628.7	2648.0	2667.3	2661.3	2626.3
35°	2552.7	2532.2	2558.8	2611.8	2675.8	2791.6	2854.3	2897.7	2909.8	2892.9	2837.4
37.5°	2804.9	2802.4	2815.7	2874.8	2946.0	3095.6	3159.5	3187.3	3177.6	3147.5	3049.8
40°	3071.5	3064.2	3055.8	3095.6	3175.2	3355.0	3468.4	3482.8	3469.6	3424.9	3301.9
42.5°	3427.4	3427.4	3387.5	3398.4	3464.8	3666.2	3800.1	3846.0	3847.2	3782.0	3618.0
45°	3917.1	3912.3	3842.4	3825.5	3876.1	4074.0	4246.5	4271.8	4271.8	4186.2	4006.4
47.5°	4505.9	4499.8	4431.1	4372.0	4381.6	4595.1	4738.7	4777.3	4743.5	4679.6	4466.1
50°	5169.4	5158.5	5088.6	5033.1	5008.9	5224.9	5346.7	5364.8	5315.4	5239.3	5007.7
52.5°	5842.5	5875.1	5834.1	5803.9	5812.4	5952.3	6077.8	5992.1	5966.8	5884.8	5651.9
55°	6543.5	6643.6	6734.1	6707.5	6738.9	6875.2	6899.3	6785.9	6740.1	6681.0	6421.6
57.5°	7249.2	7541.1	7837.9	7921.2	7998.4	8193.8	8166.1	7980.3	8015.3	8103.3	7811.4
60°	8234.8	9078.1	9830.9	9969.6	10209.7	10376.2	10413.6	10377.4	10540.2	10494.4	10236.2
62.5°	9748.8	11154.3	12201.4	12462.0	12703.3	12694.8	12568.2	12437.9	12598.3	12598.3	11924.0
65°	10829.8	12424.6	13545.3	13761.3	13751.6	13460.9	13161.7	12901.1	12878.2	12699.7	11714.0
66°	10880.4	12522.3	13620.1	13808.3	13736.0	13267.9	12909.6	12579.0	12437.9	12189.4	11179.6
67.5°	10424.4	12246.1	13376.4	13540.5	13349.9	12679.2	12185.7	11743.0	11537.9	11119.3	10168.7
70°	8550.9	10524.5	12168.9	12504.2	12288.3	11439.0	10763.4	10165.0	9773.0	9168.6	8483.3
72.5°	6241.9	7770.4	9551.0	10096.3	10062.5	9280.8	8736.7	8189.0	7673.8	7123.7	6623.1
75°	4057.1	5054.8	6047.6	6366.1	6212.9	5760.5	5370.8	5051.2	4562.6	4180.1	4087.2
77.5°	2316.3	2830.2	2677.0	2637.2	2445.4	1973.7	1312.6	920.5	831.2	1037.5	1137.6
80°	2204.1	1997.8	1635.9	1475.4	1356.0	924.1	485.0	341.4	299.2	306.4	329.3
82.5°	2485.2	2590.1	2118.4	1769.8	1540.6	1124.4	614.1	285.9	208.7	247.3	277.5
85°	1862.7	2622.7	2599.8	2202.9	1807.2	1295.7	726.2	218.4	125.5	173.7	226.8
87.5°	377.6	621.3	598.4	526.0	447.6	312.5	121.8	68.8	62.7	85.7	130.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1993.0	1993.0	1995.4	1999.0	2000.2	2000.2	2002.6	2000.2	2005.0	2006.2	2007.4
5°	2003.8	2007.4	2009.8	2015.9	2019.5	2021.9	2025.5	2023.1	2027.9	2029.1	2031.6
7.5°	2015.9	2021.9	2026.7	2029.1	2034.0	2034.0	2035.2	2032.8	2031.6	2027.9	2026.7
10°	2037.6	2041.2	2047.2	2044.8	2042.4	2034.0	2026.7	2015.9	2009.8	1999.0	1993.0
12.5°	2072.6	2075.0	2075.0	2064.1	2048.4	2029.1	2011.1	1993.0	1978.5	1966.4	1959.2
15°	2096.7	2101.5	2095.5	2079.8	2056.9	2030.4	2006.2	1982.1	1962.8	1947.1	1937.5
17.5°	2114.8	2113.6	2102.7	2081.0	2059.3	2036.4	2014.7	1989.3	1965.2	1942.3	1927.8
20°	2142.5	2130.5	2111.2	2088.3	2065.3	2046.0	2029.1	2005.0	1979.7	1948.3	1926.6
22.5°	2179.9	2158.2	2130.5	2106.4	2084.6	2066.5	2047.2	2026.7	2000.2	1965.2	1935.0
25°	2233.0	2195.6	2164.3	2140.1	2120.8	2100.3	2078.6	2052.1	2025.5	1989.3	1953.1
27.5°	2313.9	2258.4	2218.6	2196.8	2178.7	2151.0	2123.2	2091.9	2058.1	2020.7	1979.7
30°	2411.6	2345.2	2299.4	2280.1	2258.4	2227.0	2196.8	2153.4	2106.4	2061.7	2011.1
32.5°	2526.2	2458.6	2412.8	2398.3	2363.3	2327.1	2284.9	2227.0	2165.5	2099.1	2038.8
35°	2699.9	2614.2	2572.0	2538.2	2490.0	2446.6	2375.4	2299.4	2211.3	2123.2	2048.4
37.5°	2878.4	2791.6	2748.2	2701.1	2638.4	2558.8	2463.4	2354.9	2237.9	2129.3	2037.6
40°	3117.3	3023.2	2967.7	2895.3	2794.0	2669.7	2528.6	2380.2	2237.9	2102.7	1991.7
42.5°	3396.0	3309.1	3223.5	3104.0	2941.2	2760.2	2562.4	2371.8	2199.2	2043.6	1926.6
45°	3782.0	3633.6	3497.3	3305.5	3067.8	2813.3	2566.0	2332.0	2132.9	1960.4	1830.1
47.5°	4216.3	4024.5	3783.2	3482.8	3158.3	2833.8	2531.0	2257.2	2027.9	1841.0	1698.6
50°	4717.0	4422.6	4052.3	3624.0	3204.2	2806.1	2447.8	2131.7	1883.2	1668.4	1516.4
52.5°	5290.0	4841.2	4296.0	3724.1	3196.9	2721.6	2310.2	1966.4	1688.9	1460.9	1311.3
55°	5925.8	5297.3	4528.8	3788.1	3131.8	2557.5	2094.3	1733.6	1447.7	1223.3	1091.8
57.5°	7046.5	6097.1	4972.7	3873.7	2995.5	2309.0	1820.4	1439.2	1181.1	990.4	865.0
60°	9128.7	7495.3	5813.6	4075.2	2790.4	1997.8	1475.4	1129.2	913.2	774.5	681.6
62.5°	10417.2	8479.7	6223.8	4046.2	2457.4	1571.9	1095.4	837.2	667.1	575.4	517.5
65°	10112.0	8093.7	5723.1	3475.6	1912.1	1114.7	725.0	547.7	458.4	411.4	383.6
66°	9697.0	7661.8	5299.7	3112.5	1666.0	931.3	598.4	459.6	394.5	359.5	345.0
67.5°	8827.2	6872.8	4571.0	2492.4	1248.6	693.7	441.5	360.7	320.9	302.8	293.2
70°	7387.9	5537.3	3233.1	1471.8	676.8	376.4	282.3	250.9	241.3	235.2	231.6
72.5°	5712.3	4008.8	1889.2	723.8	341.4	243.7	214.7	201.5	197.8	197.8	199.1
75°	3598.7	2304.2	845.7	348.6	231.6	196.6	183.4	177.3	178.5	179.8	178.5
77.5°	1195.5	795.0	352.3	247.3	201.5	178.5	167.7	165.3	167.7	168.9	168.9
80°	343.8	300.4	254.5	218.4	184.6	166.5	156.8	155.6	161.7	162.9	160.4
82.5°	264.2	247.3	230.4	211.1	177.3	156.8	153.2	154.4	158.0	155.6	144.8
85°	242.5	240.1	172.5	171.3	154.4	149.6	146.0	147.2	143.6	130.3	118.2
87.5°	136.3	126.7	97.7	98.9	114.6	118.2	97.7	103.7	96.5	84.4	77.2
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°	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	2009.8	2008.6	2008.6	2012.3	2007.4
5°	2032.8	2031.6	2031.6	2035.2	2031.6
7.5°	2021.9	2018.3	2015.9	2014.7	2014.7
10°	1985.7	1982.1	1974.9	1972.4	1970.0
12.5°	1948.3	1944.7	1936.3	1936.3	1933.8
15°	1925.4	1920.6	1914.5	1910.9	1908.5
17.5°	1913.3	1906.1	1898.9	1895.2	1892.8
20°	1908.5	1898.9	1890.4	1884.4	1884.4
22.5°	1909.7	1897.7	1888.0	1880.8	1878.3
25°	1921.8	1903.7	1891.6	1884.4	1882.0
27.5°	1938.7	1917.0	1901.3	1891.6	1888.0
30°	1961.6	1931.4	1909.7	1897.7	1892.8
32.5°	1977.3	1935.0	1907.3	1890.4	1884.4
35°	1976.1	1921.8	1888.0	1866.3	1859.0
37.5°	1954.4	1890.4	1845.8	1819.2	1807.2
40°	1906.1	1832.5	1785.5	1760.1	1745.6
42.5°	1836.1	1756.5	1714.3	1686.5	1670.8
45°	1726.3	1647.9	1596.1	1574.3	1553.8
47.5°	1574.3	1494.7	1450.1	1418.7	1405.4
50°	1395.8	1316.2	1269.1	1243.8	1231.7
52.5°	1200.4	1124.4	1090.6	1066.4	1049.6
55°	997.7	927.7	913.2	886.7	871.0
57.5°	807.1	766.1	752.8	726.2	713.0
60°	630.9	617.7	603.2	586.3	579.1
62.5°	488.6	476.5	472.9	462.0	460.8
65°	372.8	374.0	371.6	369.2	366.7
66°	339.0	337.8	339.0	336.6	335.4
67.5°	288.3	293.2	296.8	295.6	295.6
70°	234.0	237.7	242.5	241.3	241.3
72.5°	200.3	206.3	208.7	207.5	207.5
75°	181.0	187.0	187.0	184.6	183.4
77.5°	168.9	171.3	168.9	166.5	164.1
80°	156.8	154.4	150.8	147.2	144.8
82.5°	136.3	130.3	126.7	120.6	120.6
85°	109.8	105.0	96.5	90.5	84.4
87.5°	71.2	68.8	62.7	47.0	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)