

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: P158484

Luminaire Tested: **VST-F08-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18197.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

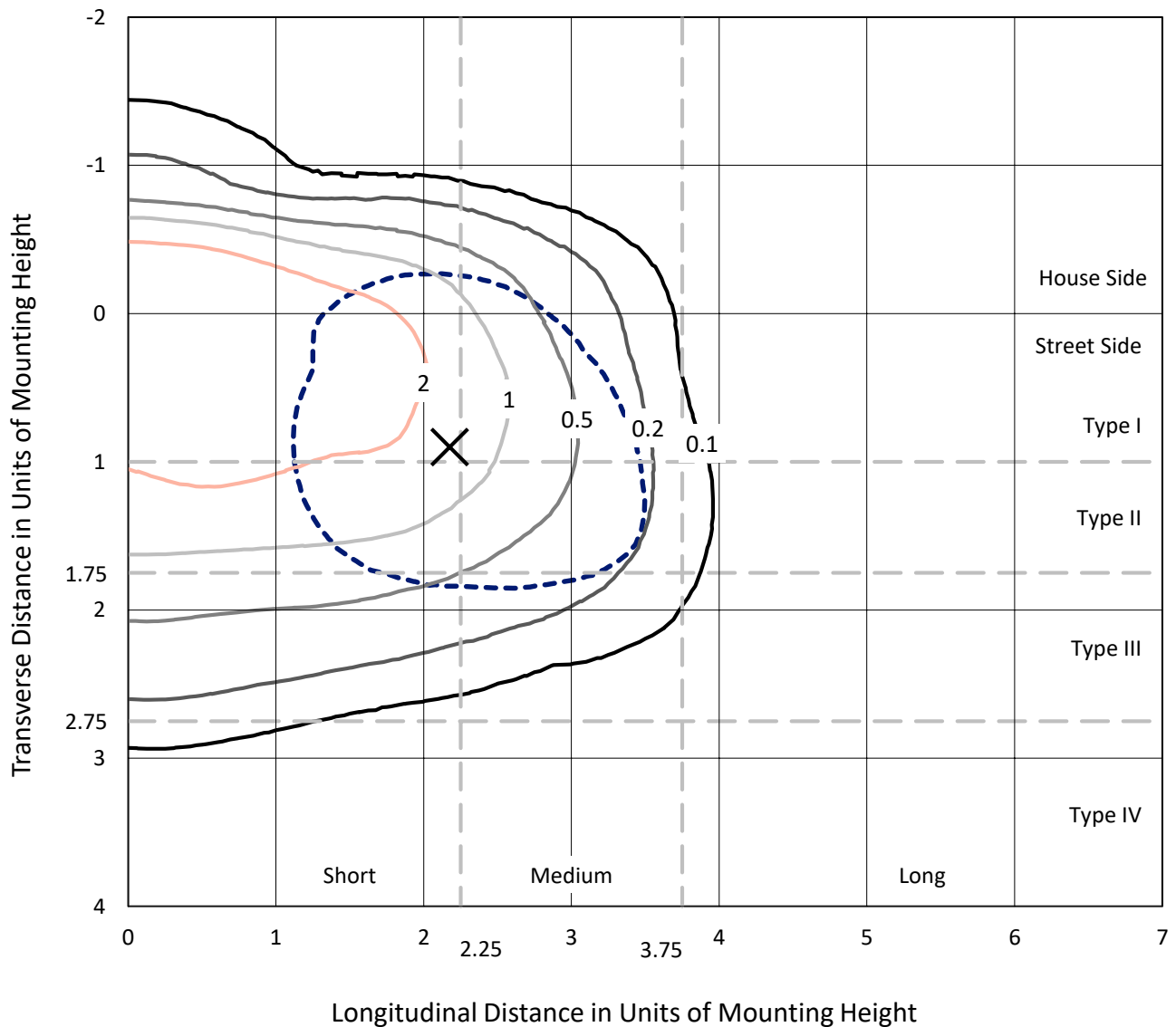
Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

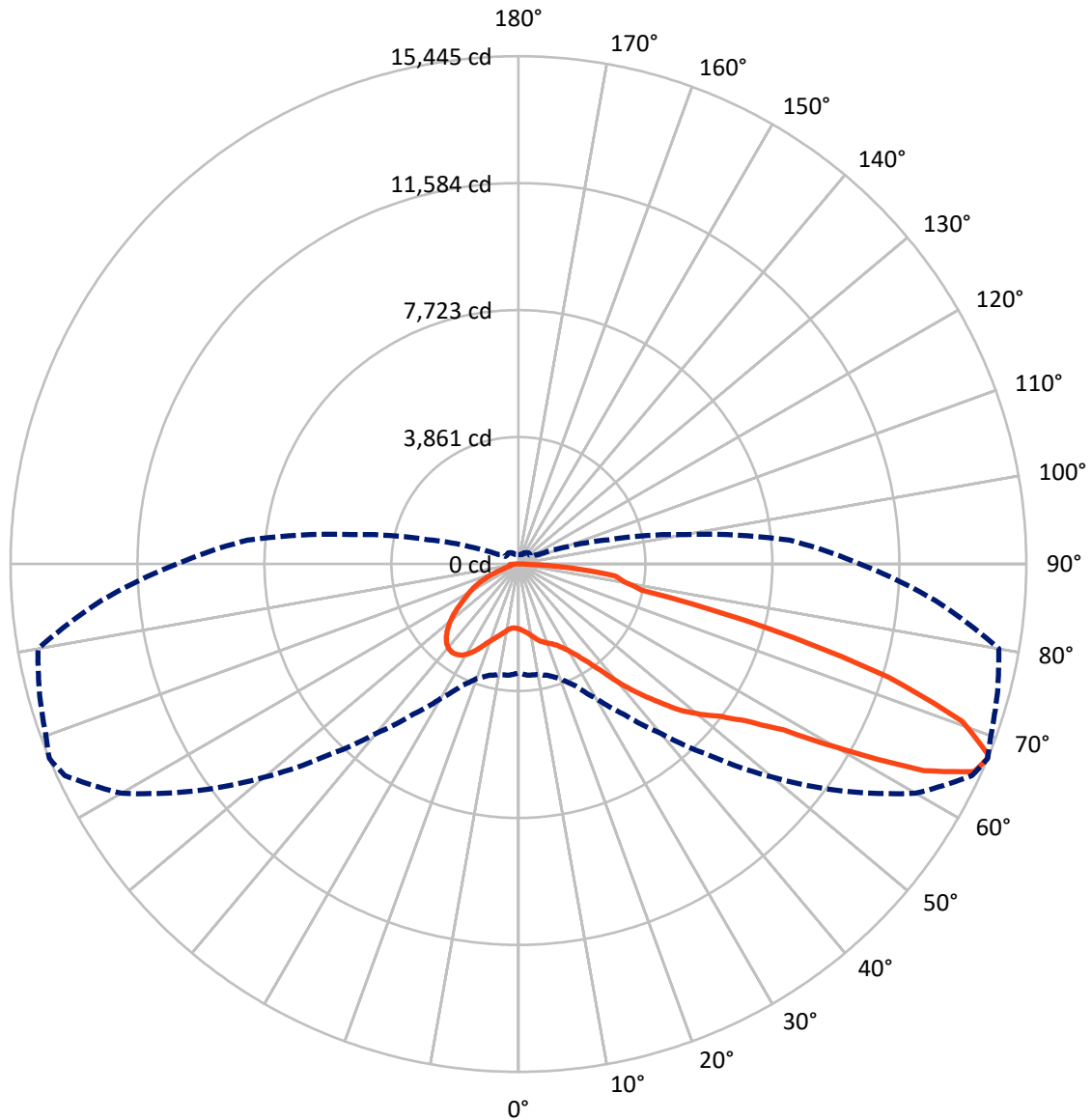
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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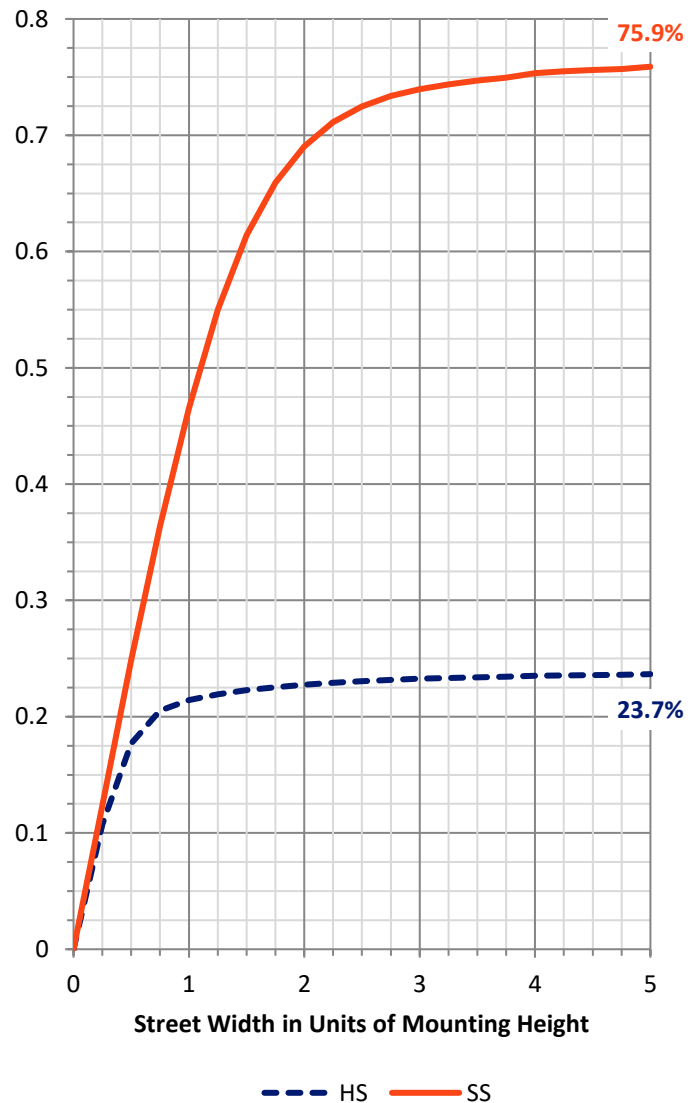
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.6	0.0	4365.6
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	13832.0	0.0	13832.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	18197.6	0.0	18197.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	1.1
10°-20°	667.9	3.7
20°-30°	1192.4	6.6
30°-40°	1747.5	9.6
40°-50°	2700.2	14.8
50°-60°	3932.0	21.6
60°-70°	5122.0	28.1
70°-80°	2292.8	12.6
80°-90°	346.7	1.9
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°	18197.6	100.0
0°-180°	18197.6	100.0



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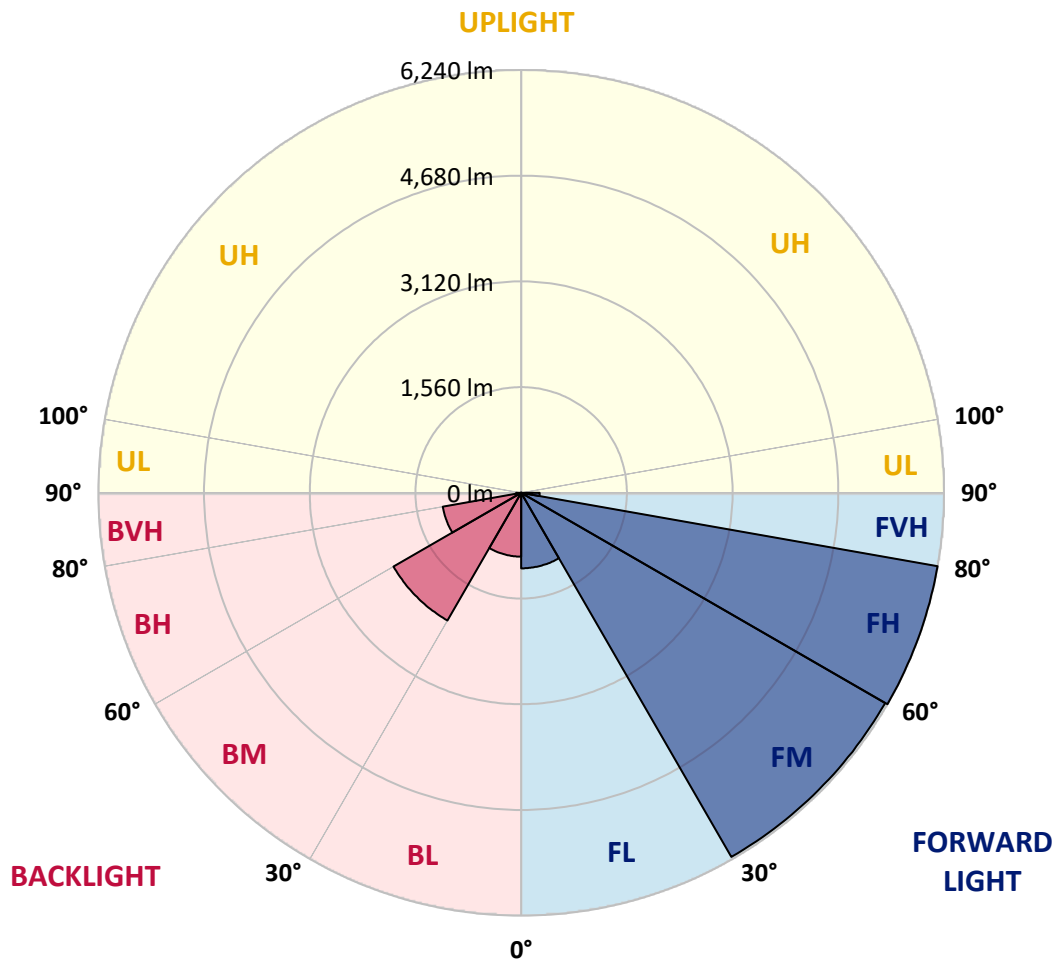
CATALOG NUMBER: VST-F08-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1115.0	6.1			
FM	(30°-60°)	6204.4	34.1			
FH	(60°-80°)	6240.3	34.3			G3/7500
FVH	(80°-90°)	272.2	1.5			G3/500
BL	(0°-30°)	941.4	5.2	B2/1000		
BM	(30°-60°)	2175.3	12.0	B2/2500		
BH	(60°-80°)	1174.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	74.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	2049.7	2054.5	2055.7	2054.5	2055.7	2050.9	2049.7	2042.4	2046.0	2036.4	2034.0
5°	2160.6	2164.3	2166.7	2157.0	2159.4	2154.6	2148.6	2141.3	2131.7	2118.4	2110.0
7.5°	2269.2	2275.3	2274.0	2270.4	2262.0	2257.2	2245.1	2234.2	2217.3	2201.7	2190.8
10°	2415.2	2414.0	2414.0	2393.5	2381.4	2370.6	2348.8	2332.0	2315.1	2292.1	2280.1
12.5°	2584.1	2575.6	2572.0	2557.5	2532.2	2512.9	2481.5	2449.0	2418.8	2394.7	2375.4
15°	2746.9	2746.9	2737.3	2714.4	2690.2	2664.9	2620.3	2573.2	2523.8	2485.2	2465.9
17.5°	2895.3	2882.1	2873.6	2843.5	2818.1	2777.1	2727.6	2677.0	2615.5	2561.2	2523.8
20°	3003.9	2993.1	2975.0	2937.6	2894.1	2845.9	2788.0	2728.9	2662.5	2603.4	2561.2
22.5°	3066.6	3053.4	3025.6	2976.2	2917.0	2849.5	2781.9	2726.4	2666.1	2621.5	2586.5
25°	3099.2	3085.9	3048.5	2983.4	2903.8	2814.5	2737.3	2683.0	2648.0	2637.2	2632.3
27.5°	3098.0	3087.2	3047.3	2972.5	2870.0	2767.5	2684.2	2638.4	2634.8	2677.0	2708.3
30°	3066.6	3059.4	3023.2	2948.4	2841.0	2733.7	2656.5	2632.3	2669.7	2759.0	2836.2
32.5°	3035.3	3031.7	3006.3	2938.8	2847.1	2756.6	2703.5	2705.9	2783.1	2920.7	3044.9
35°	3038.9	3043.7	3040.1	3003.9	2946.0	2899.0	2873.6	2926.7	3047.3	3213.8	3380.3
37.5°	3070.3	3088.4	3111.3	3114.9	3116.1	3108.9	3161.9	3274.1	3450.3	3667.4	3928.0
40°	3139.0	3159.5	3225.9	3283.8	3358.6	3447.9	3555.2	3710.9	3929.2	4197.0	4516.7
42.5°	3352.6	3381.5	3463.5	3570.9	3708.4	3848.4	4008.8	4221.2	4489.0	4771.3	5106.6
45°	3631.2	3691.6	3782.0	3901.5	4107.8	4304.4	4511.9	4749.6	5034.3	5387.7	5725.5
47.5°	3978.7	4039.0	4170.5	4298.4	4542.1	4787.0	5013.8	5262.3	5571.1	5933.0	6307.0
50°	4282.7	4351.4	4468.5	4641.0	4923.3	5223.7	5474.6	5743.6	6003.0	6384.2	6761.8
52.5°	4521.5	4571.0	4683.2	4841.2	5156.1	5485.5	5802.7	6101.9	6409.5	6790.8	7140.6
55°	4551.7	4597.6	4707.3	4888.3	5208.0	5573.5	5939.1	6293.7	6729.2	7145.4	7608.7
57.5°	4421.4	4458.8	4569.8	4731.5	5042.7	5458.9	5921.0	6375.8	6933.1	7495.3	8061.1
60°	4236.8	4274.2	4361.1	4490.2	4771.3	5220.0	5759.3	6381.8	7122.5	7934.4	8766.8
62.5°	4034.2	4066.7	4136.7	4228.4	4475.7	4889.5	5507.2	6342.0	7276.9	8371.1	9654.7
65°	3692.8	3771.2	3801.3	3895.4	4142.7	4533.6	5162.1	6073.0	7214.2	8565.4	10212.1
67°	3315.2	3394.8	3410.5	3505.8	3703.6	4078.8	4718.2	5574.7	6717.2	8230.0	10089.0
67.5°	3194.5	3262.1	3286.2	3381.5	3568.5	3922.0	4528.8	5395.0	6565.2	8046.6	9940.6
70°	2348.8	2423.6	2450.2	2490.0	2623.9	2918.3	3320.0	4071.6	5234.5	6566.4	8385.6
72.5°	1257.1	1317.4	1342.7	1401.8	1470.6	1631.0	1938.7	2477.9	3212.6	4393.7	5965.6
75°	850.5	874.6	892.7	933.7	1004.9	1132.8	1267.9	1457.3	1901.3	2479.1	3394.8
77.5°	485.0	495.8	498.2	505.5	562.2	684.0	906.0	1226.9	1573.1	1796.3	2171.5
80°	209.9	231.6	248.5	237.7	234.0	259.4	324.5	483.8	948.2	1505.6	1786.7
82.5°	113.4	123.1	137.5	138.7	146.0	154.4	167.7	199.1	279.9	564.6	1231.7
85°	59.1	61.5	82.0	94.1	100.1	105.0	107.4	119.4	137.5	174.9	306.4
87.5°	8.4	12.1	14.5	19.3	21.7	22.9	26.5	33.8	39.8	48.3	82.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	2023.1	2020.7	2013.5	2008.6	2003.8	1999.0	1993.0	1988.1	1979.7	1973.7	1966.4
5°	2097.9	2083.4	2073.8	2060.5	2058.1	2042.4	2026.7	2019.5	2005.0	1993.0	1978.5
7.5°	2173.9	2157.0	2141.3	2130.5	2124.5	2102.7	2087.1	2069.0	2052.1	2036.4	2019.5
10°	2263.2	2246.3	2229.4	2222.2	2211.3	2190.8	2177.5	2154.6	2137.7	2118.4	2095.5
12.5°	2356.1	2344.0	2332.0	2322.3	2317.5	2307.8	2288.5	2269.2	2246.3	2227.0	2200.5
15°	2438.1	2429.7	2424.8	2422.4	2422.4	2416.4	2398.3	2380.2	2356.1	2334.4	2305.4
17.5°	2496.0	2492.4	2496.0	2499.6	2504.5	2499.6	2496.0	2475.5	2459.8	2433.3	2404.3
20°	2529.8	2537.0	2555.1	2567.2	2578.1	2586.5	2590.1	2573.2	2552.7	2533.4	2514.1
22.5°	2566.0	2586.5	2617.9	2636.0	2654.1	2684.2	2691.5	2679.4	2663.7	2651.6	2631.1
25°	2626.3	2656.5	2710.8	2739.7	2765.0	2809.7	2815.7	2818.1	2814.5	2804.9	2779.5
27.5°	2720.4	2779.5	2851.9	2889.3	2917.0	2975.0	2997.9	2997.9	2988.2	2999.1	2999.1
30°	2884.5	2962.9	3057.0	3078.7	3122.1	3172.8	3210.2	3215.0	3216.2	3239.2	3272.9
32.5°	3136.6	3211.4	3316.4	3340.5	3377.9	3426.1	3468.4	3463.5	3474.4	3523.9	3568.5
35°	3503.4	3579.4	3648.1	3680.7	3697.6	3741.0	3756.7	3783.2	3815.8	3877.3	3871.3
37.5°	4046.2	4113.8	4123.4	4143.9	4123.4	4131.9	4143.9	4175.3	4262.2	4317.7	4228.4
40°	4700.1	4812.3	4801.4	4777.3	4731.5	4669.9	4691.6	4739.9	4834.0	4785.7	4545.7
42.5°	5316.6	5432.4	5410.7	5382.9	5281.6	5258.7	5256.2	5296.1	5346.7	5209.2	4794.2
45°	5923.4	6041.6	6004.2	5988.5	5921.0	5871.5	5912.5	5914.9	5901.7	5607.3	5011.3
47.5°	6549.5	6658.1	6633.9	6647.2	6577.2	6544.7	6548.3	6531.4	6407.1	5945.1	5180.2
50°	7055.0	7200.9	7215.4	7185.3	7147.9	7098.4	7225.1	7179.2	6903.0	6273.2	5343.1
52.5°	7448.2	7644.9	7719.7	7700.4	7670.2	7676.3	7913.9	7965.8	7508.6	6687.0	5522.9
55°	7913.9	8224.0	8345.8	8418.2	8386.8	8507.5	9051.5	9078.1	8350.6	7227.5	5756.9
57.5°	8585.9	9029.8	9414.7	9517.2	9616.1	10008.2	10891.3	10622.3	9443.6	8045.4	6053.7
60°	9607.7	10580.0	11204.9	11533.1	11764.7	12312.4	13152.1	12470.4	10805.6	9019.0	6426.4
62.5°	11038.5	12459.6	13504.3	13833.7	13929.0	14243.8	14851.9	13547.8	11547.6	9455.7	6459.0
65°	12103.7	13808.3	15059.4	15228.3	15114.9	15120.9	15280.1	13491.1	11271.3	9074.5	5899.2
67°	12033.7	13942.2	15223.4	15445.4	15288.6	15082.3	14833.8	12722.6	10383.4	8275.8	5165.8
67.5°	11926.4	13813.2	15152.3	15386.3	15242.7	15007.5	14644.4	12424.6	10107.1	8027.3	5016.2
70°	10309.8	12183.3	13986.9	14316.2	14376.5	14161.8	13142.4	10476.3	8205.9	6530.2	3895.4
72.5°	8024.9	9693.3	11477.6	11763.5	11995.1	11376.3	9565.5	7235.9	5981.3	4706.1	2820.5
75°	5298.5	6995.9	7895.8	7938.0	7642.5	6496.4	4673.6	3624.0	3335.7	2766.3	1745.6
77.5°	2835.0	4113.8	4139.1	3832.7	3692.8	2753.0	1117.1	616.5	686.4	779.3	694.9
80°	2114.8	2620.3	3036.5	3264.5	3332.0	2360.9	577.9	326.9	285.9	260.6	257.0
82.5°	1907.3	2531.0	2837.4	2961.7	2930.3	1942.3	324.5	219.6	182.2	197.8	225.6
85°	748.0	1351.2	1777.0	1720.3	1445.3	723.8	177.3	118.2	118.2	171.3	222.0
87.5°	153.2	277.5	376.4	359.5	323.3	139.9	86.9	71.2	72.4	138.7	209.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	1959.2	1951.9	1947.1	1942.3	1937.5	1935.0	1931.4	1931.4	1924.2	1921.8	1919.4
5°	1967.6	1955.6	1947.1	1936.3	1927.8	1920.6	1910.9	1908.5	1900.1	1894.0	1891.6
7.5°	2003.8	1985.7	1967.6	1954.4	1942.3	1926.6	1915.7	1906.1	1897.7	1891.6	1884.4
10°	2072.6	2053.3	2027.9	2003.8	1988.1	1964.0	1947.1	1930.2	1920.6	1913.3	1903.7
12.5°	2173.9	2146.2	2116.0	2087.1	2060.5	2029.1	2012.3	1991.7	1979.7	1973.7	1966.4
15°	2277.7	2247.5	2210.1	2182.4	2152.2	2128.1	2112.4	2094.3	2084.6	2077.4	2072.6
17.5°	2383.8	2348.8	2322.3	2294.6	2280.1	2262.0	2241.5	2218.6	2190.8	2173.9	2151.0
20°	2492.4	2465.9	2450.2	2434.5	2417.6	2392.3	2351.3	2304.2	2252.3	2202.9	2155.8
22.5°	2619.1	2603.4	2601.0	2586.5	2551.5	2491.2	2415.2	2327.1	2239.1	2157.0	2093.1
25°	2797.6	2797.6	2785.6	2726.4	2644.4	2535.8	2408.0	2281.3	2164.3	2052.1	1967.6
27.5°	3022.0	3013.6	2954.4	2832.6	2685.4	2516.5	2345.2	2184.8	2035.2	1912.1	1803.6
30°	3269.3	3210.2	3083.5	2891.7	2670.9	2453.8	2243.9	2058.1	1882.0	1731.2	1603.3
32.5°	3526.3	3382.7	3154.7	2891.7	2620.3	2359.7	2117.2	1889.2	1687.7	1518.8	1366.8
35°	3759.1	3497.3	3171.6	2844.7	2521.4	2221.0	1939.9	1681.7	1440.4	1258.3	1091.8
37.5°	3970.2	3573.3	3153.5	2753.0	2377.8	2025.5	1696.2	1411.5	1138.8	962.7	820.3
40°	4107.8	3589.0	3078.7	2609.4	2172.7	1761.3	1397.0	1078.5	862.6	702.1	606.8
42.5°	4193.4	3558.8	2958.1	2412.8	1896.4	1429.6	1048.4	773.3	612.8	523.6	487.4
45°	4241.7	3480.4	2779.5	2143.8	1562.3	1087.0	744.3	558.6	471.7	440.3	428.3
47.5°	4239.3	3353.8	2556.3	1832.5	1193.1	757.6	527.2	435.5	411.4	401.7	399.3
50°	4213.9	3198.1	2294.6	1494.7	861.4	528.4	417.4	390.9	384.8	378.8	376.4
52.5°	4178.9	3005.1	2005.0	1165.4	611.6	422.2	378.8	371.6	366.7	360.7	358.3
55°	4113.8	2767.5	1691.4	877.0	478.9	381.2	365.5	363.1	357.1	348.6	343.8
57.5°	4034.2	2526.2	1391.0	685.2	423.4	371.6	363.1	359.5	351.1	341.4	331.8
60°	4005.2	2327.1	1155.7	577.9	410.2	375.2	369.2	364.3	352.3	337.8	326.9
62.5°	3824.3	2102.7	986.8	535.6	417.4	390.9	388.5	381.2	363.1	346.2	329.3
65°	3356.2	1778.2	836.0	506.7	431.9	417.4	419.8	409.0	390.9	367.9	337.8
67°	2838.6	1450.1	696.1	478.9	442.7	445.2	453.6	445.2	422.2	389.7	348.6
67.5°	2701.1	1366.8	661.1	470.5	445.2	452.4	462.0	456.0	433.1	395.7	353.5
70°	2007.4	962.7	493.4	425.9	445.2	474.1	495.8	501.9	476.5	424.6	363.1
72.5°	1413.9	621.3	378.8	369.2	404.1	442.7	483.8	504.3	475.3	418.6	349.9
75°	849.3	388.5	307.6	313.7	340.2	380.0	412.6	421.0	384.8	348.6	302.8
77.5°	393.3	258.2	241.3	249.7	275.1	293.2	293.2	276.3	248.5	226.8	217.2
80°	231.6	211.1	209.9	225.6	242.5	229.2	208.7	185.8	171.3	164.1	160.4
82.5°	217.2	225.6	240.1	243.7	230.4	197.8	172.5	149.6	142.4	138.7	135.1
85°	255.8	273.9	249.7	230.4	203.9	166.5	135.1	115.8	112.2	108.6	103.7
87.5°	236.5	225.6	196.6	168.9	139.9	101.3	73.6	66.4	71.2	70.0	67.6
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):

	160°	165°	170°	175°	180°
0°	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	1920.6	1920.6	1915.7	1913.3	1919.4
5°	1886.8	1888.0	1884.4	1883.2	1884.4
7.5°	1879.6	1878.3	1875.9	1873.5	1875.9
10°	1901.3	1900.1	1896.4	1898.9	1895.2
12.5°	1966.4	1973.7	1972.4	1974.9	1979.7
15°	2072.6	2071.4	2067.8	2070.2	2073.8
17.5°	2132.9	2123.2	2114.8	2111.2	2111.2
20°	2118.4	2090.7	2076.2	2067.8	2065.3
22.5°	2032.8	1993.0	1962.8	1955.6	1949.5
25°	1892.8	1843.4	1804.8	1796.3	1780.6
27.5°	1730.0	1663.6	1617.8	1608.1	1599.7
30°	1516.4	1440.4	1387.3	1353.6	1364.4
32.5°	1255.9	1183.5	1121.9	1067.7	1059.2
35°	969.9	890.3	836.0	811.9	796.2
37.5°	723.8	657.5	621.3	598.4	599.6
40°	553.7	518.7	499.4	483.8	485.0
42.5°	462.0	446.4	441.5	434.3	430.7
45°	418.6	413.8	415.0	407.8	405.3
47.5°	394.5	390.9	392.1	387.3	386.0
50°	375.2	372.8	374.0	370.4	369.2
52.5°	355.9	357.1	355.9	353.5	353.5
55°	339.0	337.8	340.2	336.6	336.6
57.5°	325.7	324.5	324.5	323.3	323.3
60°	318.5	313.7	312.5	312.5	313.7
62.5°	314.9	306.4	305.2	305.2	306.4
65°	316.1	302.8	298.0	296.8	295.6
67°	317.3	298.0	288.3	283.5	282.3
67.5°	318.5	295.6	284.7	279.9	277.5
70°	311.2	278.7	263.0	254.5	252.1
72.5°	293.2	258.2	238.9	228.0	225.6
75°	260.6	234.0	217.2	205.1	200.3
77.5°	201.5	189.4	183.4	176.1	173.7
80°	156.8	150.8	148.4	143.6	142.4
82.5°	130.3	124.3	120.6	114.6	111.0
85°	101.3	94.1	91.7	86.9	84.4
87.5°	66.4	62.7	61.5	55.5	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)