

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: P158694

Luminaire Tested: **VST-F07-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158694
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
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-SL4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15311 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full 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



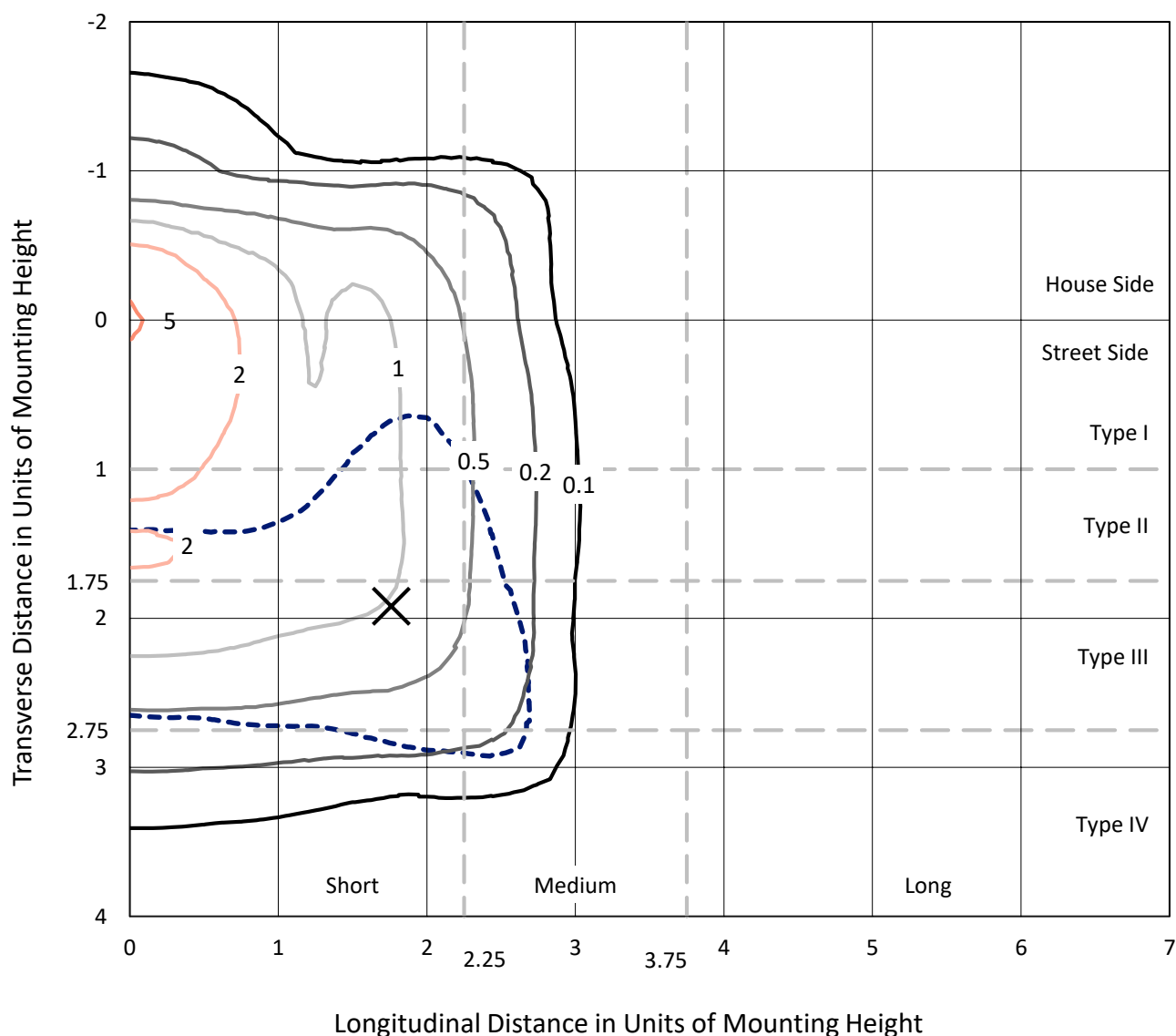
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

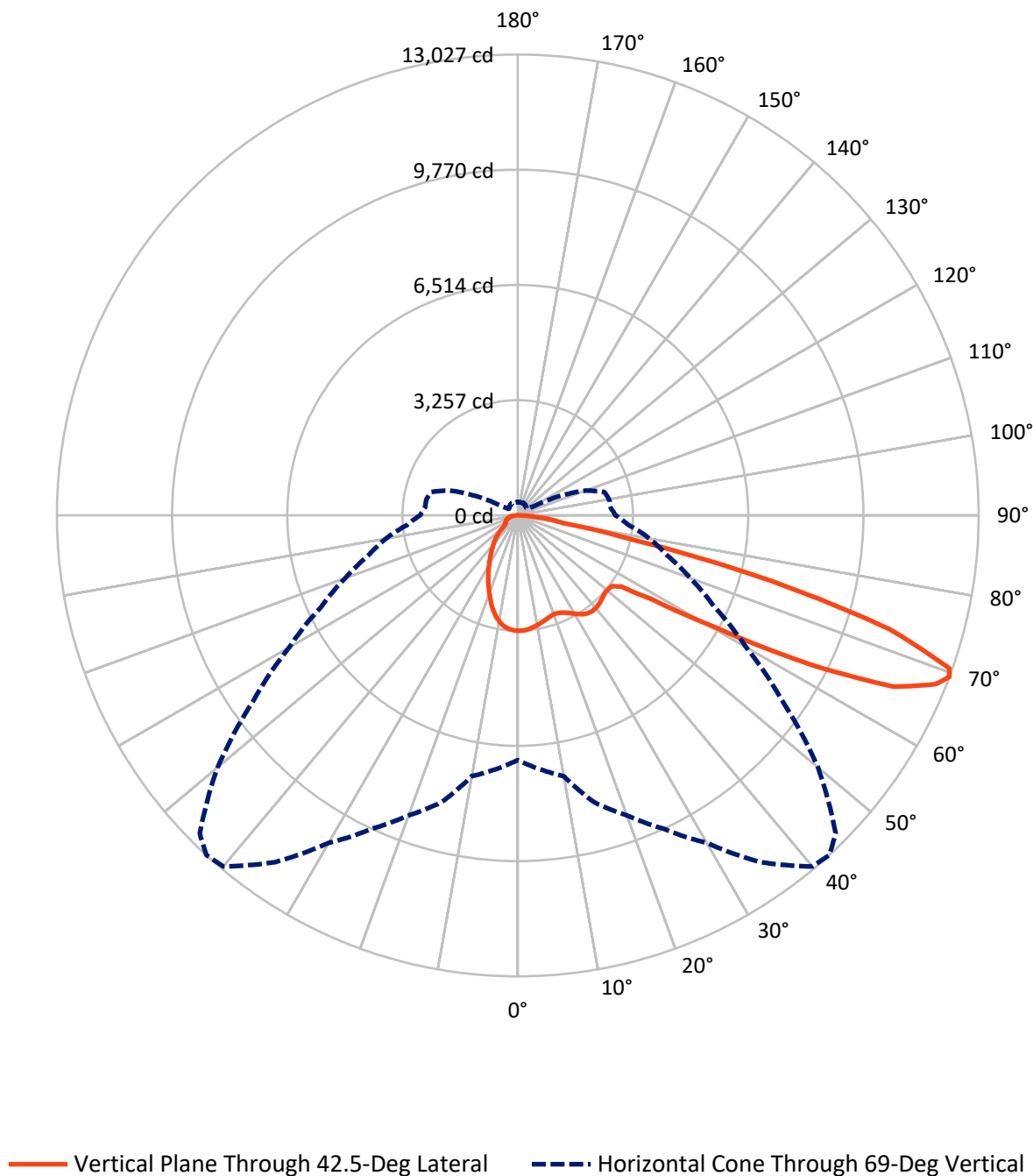


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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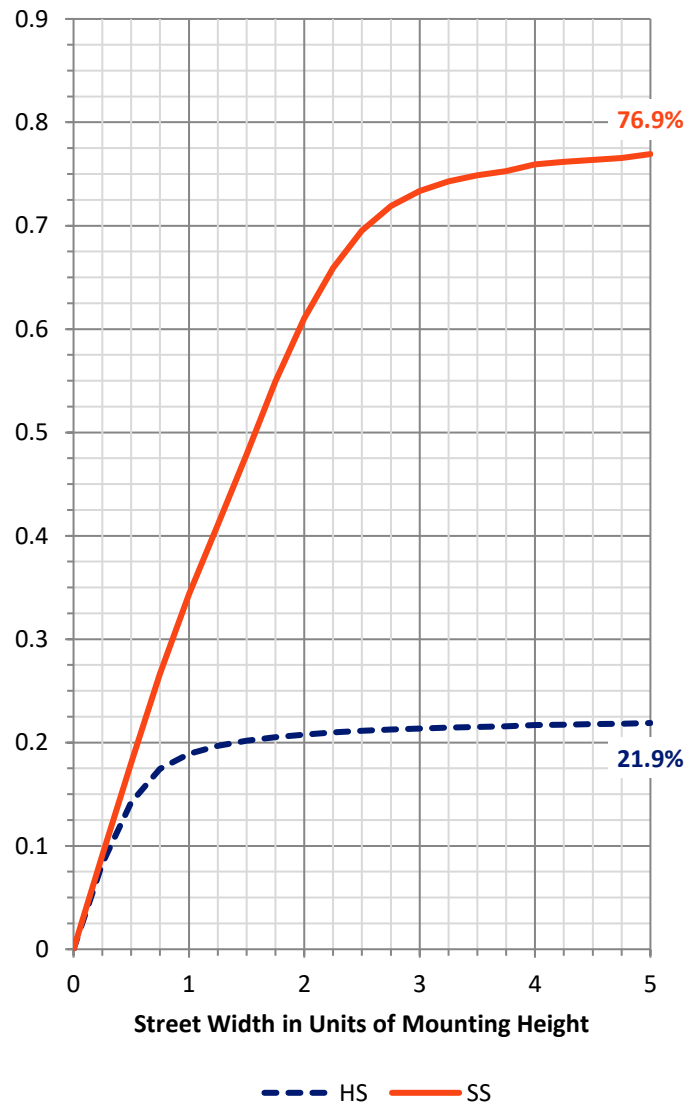
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3403.9	0.0	3403.9
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	11907.1	0.0	11907.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	15311.0	0.0	15311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	2.0
10°-20°	818.1	5.3
20°-30°	1192.9	7.8
30°-40°	1520.7	9.9
40°-50°	1769.4	11.6
50°-60°	2692.1	17.6
60°-70°	4755.5	31.1
70°-80°	1962.4	12.8
80°-90°	296.3	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°	15311.0	100.0
0°-180°	15311.0	100.0

Coefficient of Utilization



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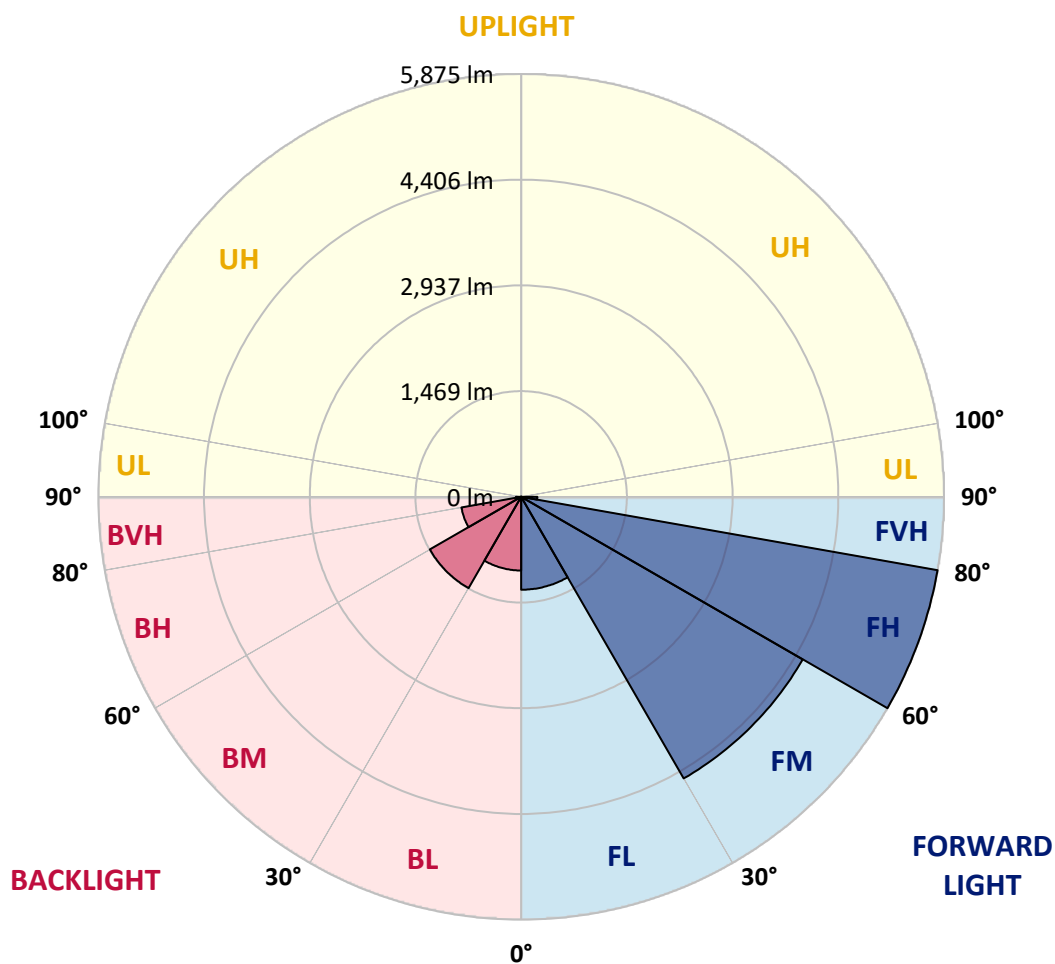
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1291.1	8.4			
FM	(30°-60°)	4517.1	29.5			
FH	(60°-80°)	5874.8	38.4			G3/7500
FVH	(80°-90°)	224.1	1.5			G2/225
BL	(0°-30°)	1023.4	6.7	B3/2500		
BM	(30°-60°)	1465.1	9.6	B2/2500		
BH	(60°-80°)	843.1	5.5	B2/1000		G2/1000
BVH	(80°-90°)	72.2	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7
2.5°	3250.2	3261.8	3257.6	3257.6	3260.7	3255.4	3255.4	3257.6	3252.3	3255.4	3254.4
5°	3238.6	3244.9	3242.8	3242.8	3242.8	3238.6	3236.4	3235.4	3228.0	3228.0	3224.8
7.5°	3213.2	3215.3	3218.5	3214.3	3213.2	3212.2	3204.8	3200.6	3192.1	3184.7	3186.8
10°	3179.4	3178.4	3183.7	3180.5	3176.3	3173.1	3166.8	3159.4	3149.9	3140.4	3139.3
12.5°	3141.4	3140.4	3144.6	3142.5	3139.3	3133.0	3127.7	3115.0	3100.3	3088.7	3087.6
15°	3117.2	3114.0	3118.2	3114.0	3108.7	3102.4	3092.9	3077.0	3050.7	3039.0	3029.5
17.5°	3140.4	3135.1	3137.2	3131.9	3124.5	3107.7	3085.5	3051.7	3013.7	2993.7	2978.9
20°	3221.7	3212.2	3214.3	3209.0	3192.1	3169.9	3127.7	3068.6	3004.2	2971.5	2948.3
22.5°	3337.8	3330.4	3333.6	3328.3	3311.4	3277.6	3214.3	3129.8	3038.0	2990.5	2953.5
25°	3514.1	3520.4	3522.5	3498.2	3488.7	3426.4	3338.8	3221.7	3099.2	3043.3	2992.6
27.5°	3712.5	3712.5	3722.0	3712.5	3693.5	3620.7	3497.2	3355.7	3198.4	3122.4	3061.2
30°	3905.7	3903.6	3921.5	3919.4	3888.8	3806.5	3666.1	3494.0	3314.6	3229.1	3150.9
32.5°	4110.5	4116.8	4128.4	4124.2	4084.1	3970.1	3801.2	3614.3	3425.4	3331.4	3243.8
35°	4332.1	4335.3	4339.5	4337.4	4256.1	4112.6	3900.4	3691.4	3495.1	3402.2	3311.4
37.5°	4553.8	4550.7	4545.4	4500.0	4407.1	4207.6	3960.6	3735.7	3529.9	3429.6	3335.7
40°	4752.3	4734.3	4717.4	4646.7	4504.2	4261.4	3983.8	3746.3	3526.7	3423.3	3331.4
42.5°	4861.0	4840.9	4806.1	4717.4	4544.3	4266.7	3968.0	3714.6	3494.0	3391.6	3300.8
45°	4881.1	4866.3	4832.5	4733.3	4534.8	4232.9	3919.4	3662.9	3445.4	3343.1	3257.6
47.5°	4833.6	4821.9	4789.2	4691.0	4493.7	4182.3	3863.5	3608.0	3397.9	3301.9	3219.6
50°	4760.7	4750.2	4724.8	4635.1	4447.2	4147.4	3835.0	3579.5	3382.1	3294.5	3218.5
52.5°	4878.9	4887.4	4813.5	4715.3	4496.8	4178.0	3866.6	3609.1	3410.6	3324.1	3244.9
55°	6716.7	6705.1	6260.7	5888.1	5222.0	4618.2	4167.5	3843.4	3631.2	3544.7	3470.8
57.5°	8727.6	8687.5	8504.9	8156.6	7440.9	6485.6	5616.8	4877.9	4586.5	4462.0	4470.4
60°	9384.2	9399.0	9359.9	9236.4	8979.9	8482.7	7821.9	7266.7	6719.9	6452.8	6483.4
62.5°	9748.4	9774.8	9808.6	9781.1	9697.7	9582.7	9499.3	9549.9	9473.9	9281.8	9128.7
65°	9799.0	9852.9	9964.8	10053.4	10096.7	10205.5	10460.9	11073.1	11632.6	11669.6	11400.4
67.5°	8796.2	8945.1	9187.9	9598.5	9950.0	10336.3	10952.8	11883.8	12709.3	12736.8	12485.5
69°	6916.2	7202.3	7486.3	8403.6	9021.1	9777.9	10690.0	11962.0	12951.0	13027.0	12710.4
70°	5541.9	5711.8	5956.7	6878.2	7800.8	8765.6	10087.2	11704.4	12785.3	12938.4	12589.0
72.5°	3327.2	3392.7	3477.1	3807.5	4282.5	5141.8	6894.1	9542.5	10785.0	10989.8	10545.4
75°	2151.3	2147.1	2154.5	2246.3	2273.7	2438.4	2990.5	4909.6	7035.5	7407.1	6875.1
77.5°	1620.3	1635.1	1611.9	1620.3	1612.9	1657.3	1674.2	1757.6	2777.3	3421.2	3059.1
80°	1430.3	1437.7	1438.8	1434.5	1382.8	1378.6	1406.0	1358.5	1262.5	1281.5	1227.7
82.5°	816.0	814.9	824.4	896.2	925.8	1022.9	1063.0	1085.1	1001.8	939.5	849.8
85°	528.9	533.1	543.6	565.8	543.6	552.1	542.6	561.6	515.1	478.2	427.5
87.5°	216.4	216.4	230.1	250.2	233.3	229.1	196.3	194.2	164.7	148.8	116.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7
2.5°	3248.1	3254.4	3251.2	3255.4	3252.3	3252.3	3248.1	3247.0	3250.2	3245.9	3247.0
5°	3219.6	3220.6	3215.3	3217.4	3211.1	3209.0	3205.8	3197.4	3202.7	3197.4	3199.5
7.5°	3178.4	3175.2	3167.8	3157.3	3149.9	3146.7	3140.4	3128.8	3130.9	3121.4	3126.7
10°	3125.6	3115.0	3102.4	3086.5	3076.0	3066.5	3052.8	3039.0	3031.7	3023.2	3022.2
12.5°	3066.5	3053.8	3036.9	3012.7	2989.4	2973.6	2952.5	2928.2	2920.8	2907.1	2899.7
15°	3002.1	2982.0	2962.0	2934.5	2909.2	2884.9	2856.4	2825.8	2805.8	2784.6	2768.8
17.5°	2944.0	2920.8	2894.4	2868.0	2840.6	2811.0	2775.1	2737.1	2707.6	2668.5	2636.9
20°	2898.7	2869.1	2842.7	2815.3	2784.6	2748.8	2705.5	2656.9	2607.3	2564.0	2527.1
22.5°	2880.7	2834.3	2802.6	2775.1	2744.5	2702.3	2649.5	2592.5	2532.4	2472.2	2423.6
25°	2895.5	2826.9	2777.3	2744.5	2718.1	2674.9	2615.8	2546.1	2476.4	2404.6	2339.2
27.5°	2938.8	2851.2	2779.4	2727.6	2697.0	2653.8	2591.5	2517.6	2435.2	2355.0	2274.8
30°	3006.3	2892.3	2801.5	2728.7	2681.2	2631.6	2566.1	2480.6	2397.2	2305.4	2217.8
32.5°	3071.8	2935.6	2826.9	2732.9	2660.1	2595.7	2522.9	2438.4	2348.7	2252.6	2161.9
35°	3118.2	2964.1	2836.4	2723.4	2627.4	2547.1	2469.0	2384.6	2297.0	2198.8	2105.9
37.5°	3140.4	2979.9	2837.4	2698.1	2584.1	2495.4	2412.0	2328.6	2246.3	2153.4	2065.8
40°	3139.3	2978.9	2822.6	2665.4	2532.4	2438.4	2356.1	2274.8	2197.7	2116.5	2037.3
42.5°	3116.1	2962.0	2801.5	2633.7	2495.4	2390.9	2305.4	2227.3	2161.9	2090.1	2023.6
45°	3080.2	2933.5	2779.4	2618.9	2484.9	2380.4	2289.6	2213.6	2155.5	2090.1	2033.1
47.5°	3052.8	2917.7	2782.5	2645.3	2517.6	2408.9	2312.8	2229.4	2179.8	2127.0	2086.9
50°	3057.0	2925.0	2793.1	2661.1	2540.8	2431.0	2338.1	2262.1	2226.2	2212.5	2203.0
52.5°	3079.2	2936.7	2824.8	2745.6	2704.4	2622.1	2567.2	2519.7	2546.1	2494.4	2433.1
55°	3362.1	3315.6	3424.3	3526.7	3656.6	3705.1	3658.7	3650.2	3692.5	3517.2	3115.0
57.5°	4530.6	4650.9	4818.8	4907.4	5015.1	4986.6	4878.9	4789.2	4683.7	4478.9	3977.5
60°	6518.3	6427.5	6351.5	6137.2	5962.0	5757.2	5529.2	5333.9	5147.1	4852.6	4310.0
62.5°	8566.1	7935.9	7409.2	6900.4	6490.8	6150.9	5820.5	5527.1	5244.2	4833.6	4249.8
65°	10337.4	9010.5	8021.4	7275.1	6676.6	6160.4	5736.1	5330.7	4970.8	4489.4	3912.0
67.5°	11133.3	9470.8	8032.0	6962.7	6134.0	5433.1	4884.2	4272.0	3868.7	3560.5	3235.4
69°	11074.2	9119.2	7458.8	6142.5	5190.3	4373.3	3784.3	3145.7	2759.3	2628.4	2621.0
70°	10793.4	8523.9	6789.6	5476.4	4387.0	3575.3	3010.5	2437.4	2077.4	1987.7	2147.1
72.5°	8812.1	6023.2	4255.1	3249.1	2498.6	1975.0	1610.8	1278.3	1020.8	884.6	914.1
75°	4977.1	2788.9	1802.9	1362.8	1151.6	952.1	817.0	696.7	630.2	512.0	405.3
77.5°	1809.3	1197.0	952.1	823.4	583.7	402.2	336.7	294.5	267.1	267.1	254.4
80°	1144.3	901.5	629.1	430.7	318.8	277.6	242.8	213.2	196.3	192.1	196.3
82.5°	714.6	552.1	352.6	270.2	227.0	203.7	177.3	155.2	141.4	138.3	144.6
85°	352.6	273.4	214.3	191.1	179.5	166.8	146.7	125.6	121.4	129.8	152.0
87.5°	105.6	93.9	77.1	80.2	84.4	82.3	65.4	57.0	53.8	70.7	110.8
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°	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7
2.5°	3249.1	3248.1	3250.2	3247.0	3249.1	3250.2	3248.1	3257.6	3251.2	3252.3	3256.5
5°	3201.6	3199.5	3207.9	3205.8	3210.1	3214.3	3212.2	3225.9	3220.6	3224.8	3233.3
7.5°	3122.4	3126.7	3127.7	3127.7	3136.2	3149.9	3153.0	3161.5	3161.5	3173.1	3181.6
10°	3016.9	3017.9	3024.3	3023.2	3033.8	3048.5	3050.7	3065.4	3070.7	3089.7	3101.3
12.5°	2894.4	2889.2	2888.1	2887.0	2900.8	2916.6	2918.7	2944.0	2954.6	2971.5	2990.5
15°	2757.2	2743.5	2739.3	2747.7	2744.5	2754.0	2763.5	2777.3	2792.0	2825.8	2842.7
17.5°	2623.1	2595.7	2588.3	2578.8	2569.3	2569.3	2573.5	2590.4	2621.0	2639.0	2677.0
20°	2485.9	2453.2	2426.8	2401.5	2379.3	2370.9	2371.9	2393.0	2415.2	2444.7	2480.6
22.5°	2370.9	2321.2	2275.9	2242.1	2196.7	2195.6	2189.3	2195.6	2219.9	2227.3	2247.4
25°	2271.6	2205.1	2143.9	2089.0	2044.7	2021.5	2015.1	2013.0	2001.4	1998.2	1983.5
27.5°	2194.6	2114.3	2035.2	1968.7	1913.8	1882.1	1842.0	1813.5	1772.3	1761.8	1735.4
30°	2131.2	2044.7	1958.1	1871.6	1809.3	1752.3	1684.7	1635.1	1571.8	1530.6	1494.7
32.5°	2070.0	1982.4	1894.8	1809.3	1713.2	1624.6	1535.9	1458.8	1388.1	1324.8	1272.0
35°	2019.3	1936.0	1847.3	1743.8	1621.4	1493.7	1387.0	1299.4	1202.3	1135.8	1069.3
37.5°	1986.6	1910.6	1821.9	1679.4	1522.2	1384.9	1263.5	1156.9	1057.7	957.4	882.5
40°	1971.8	1905.3	1794.5	1620.3	1435.6	1283.6	1149.5	1031.3	904.6	791.7	711.5
42.5°	1970.8	1903.2	1756.5	1554.9	1363.8	1198.1	1049.3	907.8	767.4	651.3	572.1
45°	1989.8	1900.1	1716.4	1500.0	1300.5	1127.4	950.0	778.0	620.7	534.1	491.9
47.5°	2040.5	1905.3	1683.7	1449.3	1240.3	1041.9	836.0	635.5	505.6	465.5	465.5
50°	2131.2	1936.0	1675.2	1413.4	1180.2	942.6	696.7	513.0	447.6	447.6	460.2
52.5°	2270.6	2000.3	1690.0	1388.1	1105.2	811.7	548.9	442.3	429.6	441.2	458.1
55°	2591.5	2114.3	1710.1	1344.8	991.2	643.9	452.8	418.0	423.3	437.0	452.8
57.5°	3180.5	2358.2	1731.2	1249.8	807.5	496.1	410.6	408.5	418.0	430.7	444.4
60°	3567.9	2668.5	1785.0	1106.3	611.2	409.6	389.5	402.2	413.8	424.3	434.9
62.5°	3567.9	2756.1	1825.1	945.8	459.2	372.6	375.8	395.8	409.6	414.8	421.2
65°	3339.9	2595.7	1688.9	770.6	373.7	351.5	363.1	383.2	395.8	400.1	405.3
67.5°	2918.7	2292.7	1422.9	580.6	333.6	333.6	348.3	363.1	373.7	382.1	390.6
69°	2537.6	2057.3	1253.0	491.9	317.7	319.8	334.6	347.3	360.0	370.5	381.1
70°	2263.2	1881.1	1134.8	446.5	308.2	309.3	324.1	337.8	349.4	361.0	373.7
72.5°	1211.8	1299.4	862.4	366.3	284.0	287.1	300.8	313.5	324.1	335.7	347.3
75°	412.7	558.4	548.9	299.8	256.5	265.0	273.4	285.0	298.7	306.1	312.5
77.5°	241.7	250.2	292.4	243.8	231.2	235.4	244.9	254.4	266.0	273.4	278.7
80°	202.7	201.6	202.7	198.5	201.6	211.1	217.5	230.1	240.7	242.8	241.7
82.5°	164.7	173.1	174.2	172.1	181.6	189.0	194.2	201.6	200.6	202.7	206.9
85°	146.7	145.7	153.1	154.1	154.1	148.8	149.9	149.9	149.9	153.1	154.1
87.5°	146.7	122.4	95.0	85.5	89.7	84.4	80.2	79.2	87.6	96.1	93.9
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°	3260.7	3260.7	3260.7	3260.7	3260.7
2.5°	3258.6	3261.8	3259.7	3259.7	3261.8
5°	3236.4	3241.7	3239.6	3241.7	3241.7
7.5°	3185.8	3193.2	3198.4	3203.7	3200.6
10°	3112.9	3125.6	3134.0	3140.4	3137.2
12.5°	3004.2	3015.8	3033.8	3044.3	3035.9
15°	2855.4	2888.1	2898.7	2913.4	2905.0
17.5°	2700.2	2720.3	2732.9	2746.6	2755.1
20°	2493.3	2509.1	2526.0	2532.4	2522.9
22.5°	2244.2	2252.6	2249.5	2259.0	2240.0
25°	1970.8	1976.1	1972.9	1981.3	1965.5
27.5°	1712.2	1711.1	1712.2	1701.6	1691.1
30°	1463.0	1453.5	1449.3	1433.5	1430.3
32.5°	1240.3	1207.6	1190.7	1167.5	1162.2
35°	1017.6	971.1	940.5	914.1	902.5
37.5°	818.1	762.1	726.2	703.0	699.9
40°	647.1	595.4	570.0	557.4	555.2
42.5°	527.8	505.6	499.3	499.3	499.3
45°	481.3	480.3	485.6	489.8	490.8
47.5°	471.8	478.2	485.6	491.9	494.0
50°	471.8	478.2	483.5	489.8	491.9
52.5°	469.7	475.0	477.1	481.3	483.5
55°	463.4	466.6	466.6	468.7	470.8
57.5°	452.8	455.0	451.8	453.9	459.2
60°	442.3	444.4	439.1	444.4	447.6
62.5°	430.7	431.7	429.6	433.8	433.8
65°	411.7	409.6	412.7	415.9	417.0
67.5°	392.7	387.4	390.6	391.6	393.7
69°	377.9	374.7	375.8	377.9	380.0
70°	367.3	365.2	367.3	370.5	373.7
72.5°	341.0	342.0	349.4	355.7	362.1
75°	316.7	324.1	333.6	347.3	354.7
77.5°	287.1	292.4	299.8	314.6	328.3
80°	248.1	251.2	252.3	257.6	256.5
82.5°	201.6	198.5	196.3	194.2	193.2
85°	144.6	143.6	135.1	128.8	128.8
87.5°	86.6	82.3	78.1	72.8	69.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)