

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: P158485

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158485
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19924 lumens
Efficiency: N/A
Efficacy: 97.5 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



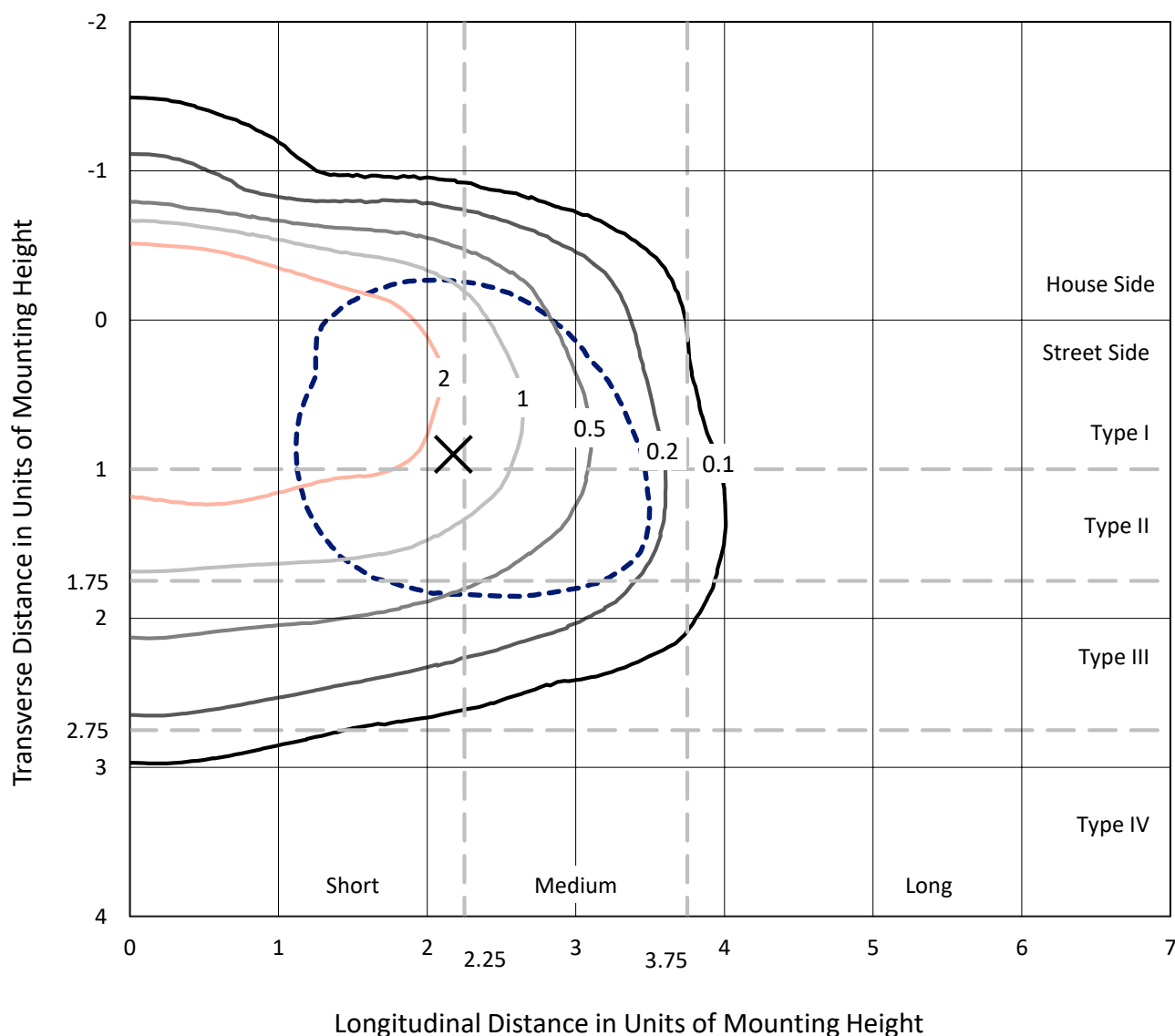
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

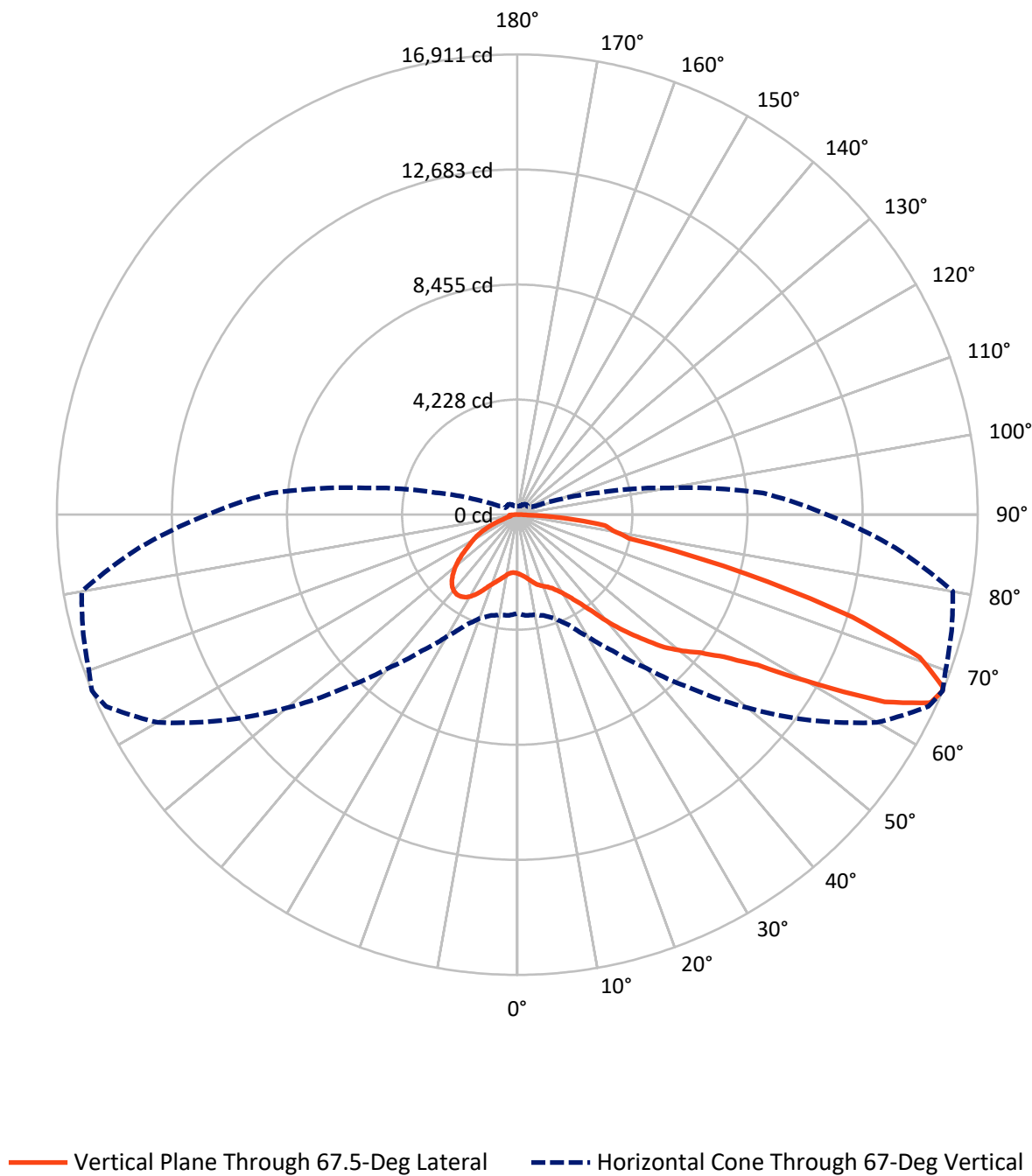


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4779.8	0.0	4779.8
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	15144.2	0.0	15144.2
	% Fixture	76.0	0.0	76.0
Total	Lumens	19924.0	0.0	19924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	1.1
10°-20°	731.3	3.7
20°-30°	1305.5	6.6
30°-40°	1913.3	9.6
40°-50°	2956.4	14.8
50°-60°	4305.0	21.6
60°-70°	5608.0	28.1
70°-80°	2510.3	12.6
80°-90°	379.6	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°	19924.0	100.0
0°-180°	19924.0	100.0

Coefficient of Utilization



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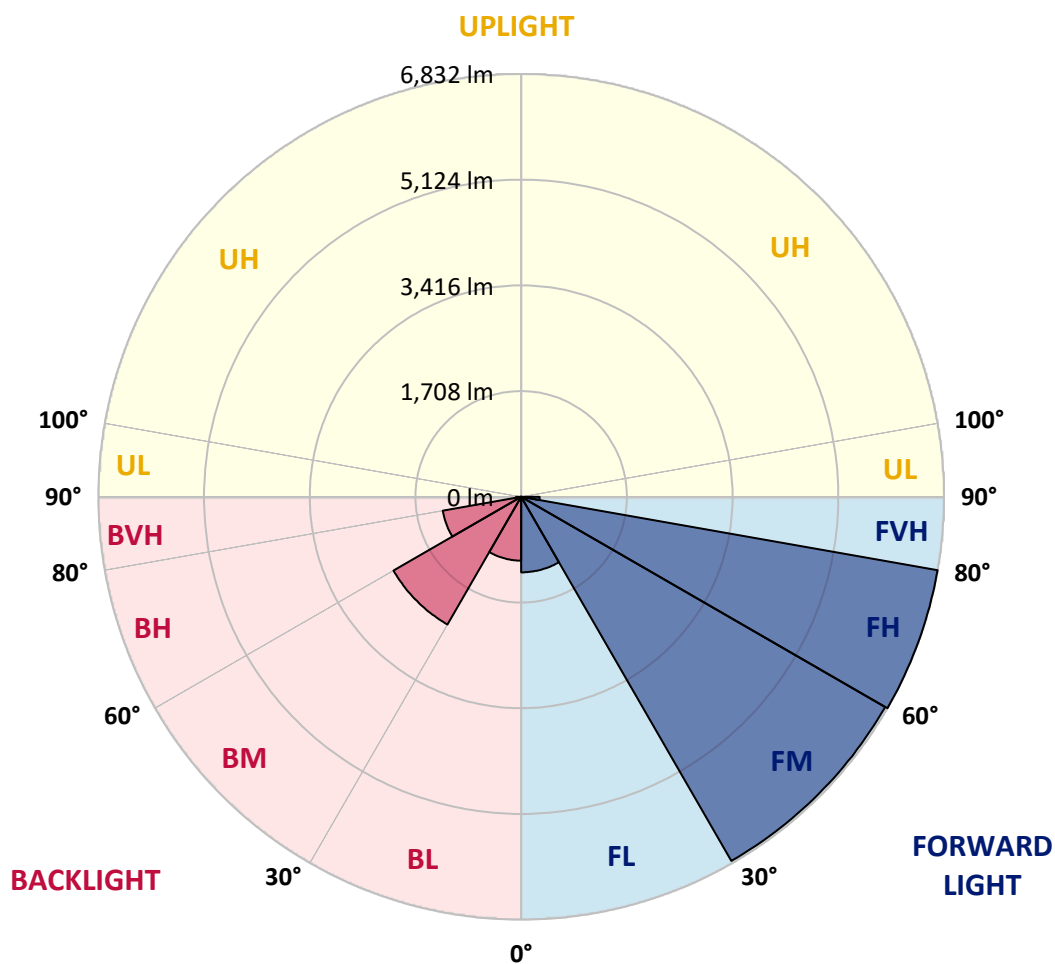
CATALOG NUMBER: VST-F08-LED-E-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1220.7	6.1			
FM	(30°-60°)	6793.0	34.1			
FH	(60°-80°)	6832.3	34.3			G3/7500
FVH	(80°-90°)	298.1	1.5			G3/500
BL	(0°-30°)	1030.7	5.2	B3/2500		
BM	(30°-60°)	2381.7	12.0	B2/2500		
BH	(60°-80°)	1285.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	81.5	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°	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6
2.5°	2244.1	2249.4	2250.7	2249.4	2250.7	2245.4	2244.1	2236.2	2240.1	2229.6	2226.9
5°	2365.6	2369.6	2372.2	2361.7	2364.3	2359.0	2352.4	2344.5	2333.9	2319.4	2310.1
7.5°	2484.5	2491.1	2489.8	2485.8	2476.6	2471.3	2458.1	2446.2	2427.7	2410.5	2398.6
10°	2644.3	2643.0	2643.0	2620.5	2607.3	2595.5	2571.7	2553.2	2534.7	2509.6	2496.4
12.5°	2829.2	2820.0	2816.0	2800.2	2772.4	2751.3	2717.0	2681.3	2648.3	2621.9	2600.7
15°	3007.6	3007.6	2997.0	2971.9	2945.5	2917.7	2868.9	2817.4	2763.2	2720.9	2699.8
17.5°	3170.0	3155.5	3146.2	3113.2	3085.5	3040.6	2986.4	2930.9	2863.6	2804.1	2763.2
20°	3288.9	3277.0	3257.2	3216.2	3168.7	3115.9	3052.5	2987.7	2915.1	2850.4	2804.1
22.5°	3357.6	3343.0	3312.7	3258.5	3193.8	3119.8	3045.9	2985.1	2919.1	2870.2	2831.9
25°	3393.2	3378.7	3337.8	3266.4	3179.3	3081.5	2997.0	2937.5	2899.2	2887.4	2882.1
27.5°	3391.9	3380.0	3336.4	3254.5	3142.3	3030.0	2938.9	2888.7	2884.7	2930.9	2965.3
30°	3357.6	3349.6	3310.0	3228.1	3110.6	2993.0	2908.5	2882.1	2923.0	3020.8	3105.3
32.5°	3323.2	3319.3	3291.5	3217.6	3117.2	3018.1	2960.0	2962.6	3047.2	3197.8	3333.8
35°	3327.2	3332.5	3328.5	3288.9	3225.5	3174.0	3146.2	3204.4	3336.4	3518.7	3701.0
37.5°	3361.5	3381.4	3406.4	3410.4	3411.7	3403.8	3461.9	3584.8	3777.6	4015.4	4300.7
40°	3436.8	3459.3	3531.9	3595.3	3677.2	3775.0	3892.5	4062.9	4302.0	4595.2	4945.2
42.5°	3670.6	3702.3	3792.1	3909.7	4060.3	4213.5	4389.2	4621.6	4914.8	5223.9	5591.1
45°	3975.7	4041.8	4140.8	4271.6	4497.5	4712.8	4939.9	5200.1	5511.9	5898.9	6268.7
47.5°	4356.1	4422.2	4566.1	4706.2	4973.0	5241.1	5489.4	5761.5	6099.6	6495.9	6905.4
50°	4689.0	4764.3	4892.4	5081.3	5390.3	5719.2	5994.0	6288.5	6572.5	6989.9	7403.3
52.5°	4950.5	5004.7	5127.5	5300.5	5645.3	6005.9	6353.2	6680.8	7017.6	7435.0	7818.1
55°	4983.5	5033.7	5153.9	5352.0	5702.1	6102.3	6502.5	6890.8	7367.6	7823.3	8330.5
57.5°	4840.9	4881.8	5003.3	5180.3	5521.1	5976.8	6482.7	6980.6	7590.9	8206.4	8825.9
60°	4638.8	4679.7	4774.8	4916.2	5223.9	5715.3	6305.7	6987.2	7798.2	8687.2	9598.5
62.5°	4416.9	4452.6	4529.2	4629.5	4900.3	5353.4	6029.6	6943.7	7967.3	9165.3	10570.7
65°	4043.1	4128.9	4162.0	4265.0	4535.8	4963.7	5651.9	6649.1	7898.6	9378.0	11180.9
67°	3629.7	3716.8	3734.0	3838.4	4055.0	4465.8	5165.8	6103.6	7354.4	9010.8	11046.2
67.5°	3497.6	3571.6	3598.0	3702.3	3907.0	4294.1	4958.4	5906.8	7188.0	8810.0	10883.7
70°	2571.7	2653.6	2682.6	2726.2	2872.8	3195.1	3635.0	4457.8	5731.1	7189.3	9181.2
72.5°	1376.3	1442.4	1470.1	1534.8	1610.1	1785.8	2122.6	2713.0	3517.4	4810.5	6531.6
75°	931.2	957.6	977.4	1022.3	1100.3	1240.3	1388.2	1595.6	2081.6	2714.3	3716.8
77.5°	531.0	542.9	545.5	553.4	615.5	748.9	992.0	1343.3	1722.4	1966.7	2377.5
80°	229.8	253.6	272.1	260.2	256.2	284.0	355.3	529.7	1038.2	1648.4	1956.2
82.5°	124.2	134.7	150.6	151.9	159.8	169.1	183.6	217.9	306.4	618.2	1348.6
85°	64.7	67.4	89.8	103.0	109.6	114.9	117.6	130.8	150.6	191.5	335.5
87.5°	9.2	13.2	15.9	21.1	23.8	25.1	29.1	37.0	43.6	52.8	89.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6
2.5°	2215.0	2212.4	2204.5	2199.2	2193.9	2188.6	2182.0	2176.7	2167.5	2160.9	2153.0
5°	2296.9	2281.1	2270.5	2256.0	2253.4	2236.2	2219.0	2211.1	2195.2	2182.0	2166.2
7.5°	2380.2	2361.7	2344.5	2332.6	2326.0	2302.2	2285.1	2265.2	2246.7	2229.6	2211.1
10°	2477.9	2459.4	2440.9	2433.0	2421.1	2398.6	2384.1	2359.0	2340.5	2319.4	2294.3
12.5°	2579.6	2566.4	2553.2	2542.6	2537.3	2526.8	2505.6	2484.5	2459.4	2438.3	2409.2
15°	2669.4	2660.2	2654.9	2652.2	2652.2	2645.6	2625.8	2606.0	2579.6	2555.8	2524.1
17.5°	2732.8	2728.9	2732.8	2736.8	2742.1	2736.8	2732.8	2710.4	2693.2	2664.1	2632.4
20°	2769.8	2777.7	2797.5	2810.7	2822.6	2831.9	2835.8	2817.4	2794.9	2773.8	2752.6
22.5°	2809.4	2831.9	2866.2	2886.0	2905.8	2938.9	2946.8	2933.6	2916.4	2903.2	2880.8
25°	2875.5	2908.5	2967.9	2999.6	3027.4	3076.2	3082.8	3085.5	3081.5	3071.0	3043.2
27.5°	2978.5	3043.2	3122.5	3163.4	3193.8	3257.2	3282.3	3282.3	3271.7	3283.6	3283.6
30°	3158.1	3244.0	3347.0	3370.8	3418.3	3473.8	3514.8	3520.0	3521.4	3546.5	3583.4
32.5°	3434.2	3516.1	3631.0	3657.4	3698.4	3751.2	3797.4	3792.1	3804.0	3858.2	3907.0
35°	3835.7	3918.9	3994.2	4029.9	4048.4	4095.9	4113.1	4142.2	4177.8	4245.2	4238.6
37.5°	4430.1	4504.1	4514.6	4537.1	4514.6	4523.9	4537.1	4571.4	4666.5	4727.3	4629.5
40°	5146.0	5268.8	5256.9	5230.5	5180.3	5113.0	5136.7	5189.6	5292.6	5239.8	4976.9
42.5°	5820.9	5947.7	5924.0	5893.6	5782.6	5757.5	5754.9	5798.5	5854.0	5703.4	5249.0
45°	6485.3	6614.8	6573.8	6556.6	6482.7	6428.5	6473.4	6476.1	6461.5	6139.3	5486.8
47.5°	7170.8	7289.7	7263.3	7277.8	7201.2	7165.6	7169.5	7151.0	7015.0	6509.1	5671.7
50°	7724.3	7884.1	7899.9	7866.9	7826.0	7771.8	7910.5	7860.3	7557.8	6868.4	5850.0
52.5°	8154.9	8370.2	8452.1	8430.9	8397.9	8404.5	8664.7	8721.5	8220.9	7321.4	6046.8
55°	8664.7	9004.2	9137.6	9216.8	9182.5	9314.6	9910.3	9939.3	9142.9	7913.2	6303.0
57.5°	9400.4	9886.5	10307.8	10420.1	10528.4	10957.7	11924.5	11630.0	10339.5	8808.7	6628.0
60°	10519.2	11583.8	12268.0	12627.2	12880.8	13480.5	14399.8	13653.5	11830.8	9874.6	7036.1
62.5°	12085.7	13641.6	14785.5	15146.1	15250.4	15595.2	16260.9	14833.0	12643.1	10352.7	7071.8
65°	13252.0	15118.3	16488.0	16673.0	16548.8	16555.4	16729.8	14771.0	12340.6	9935.4	6458.9
67°	13175.4	15264.9	16667.7	16910.7	16739.0	16513.1	16241.0	13929.6	11368.5	9061.0	5655.8
67.5°	13057.8	15123.6	16589.7	16846.0	16688.8	16431.2	16033.7	13603.3	11066.0	8788.9	5492.1
70°	11287.9	13339.2	15313.8	15674.4	15740.4	15505.3	14389.2	11470.2	8984.4	7149.7	4265.0
72.5°	8786.2	10612.9	12566.5	12879.5	13133.1	12455.5	10472.9	7922.4	6548.7	5152.6	3088.1
75°	5801.1	7659.6	8644.9	8691.1	8367.5	7112.7	5116.9	3967.8	3652.1	3028.7	1911.3
77.5°	3104.0	4504.1	4531.8	4196.3	4043.1	3014.2	1223.1	674.9	751.6	853.3	760.8
80°	2315.4	2868.9	3324.6	3574.2	3648.2	2584.9	632.7	357.9	313.0	285.3	281.3
82.5°	2088.2	2771.1	3106.6	3242.7	3208.3	2126.6	355.3	240.4	199.4	216.6	247.0
85°	818.9	1479.3	1945.6	1883.5	1582.4	792.5	194.2	129.4	129.4	187.6	243.0
87.5°	167.7	303.8	412.1	393.6	354.0	153.2	95.1	77.9	79.3	151.9	229.8
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°	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6	2159.6
2.5°	2145.0	2137.1	2131.8	2126.6	2121.3	2118.6	2114.7	2114.7	2106.7	2104.1	2101.5
5°	2154.3	2141.1	2131.8	2119.9	2110.7	2102.8	2092.2	2089.6	2080.3	2073.7	2071.1
7.5°	2193.9	2174.1	2154.3	2139.8	2126.6	2109.4	2097.5	2086.9	2077.7	2071.1	2063.2
10°	2269.2	2248.1	2220.3	2193.9	2176.7	2150.3	2131.8	2113.3	2102.8	2094.9	2084.3
12.5°	2380.2	2349.8	2316.8	2285.1	2256.0	2221.7	2203.2	2180.7	2167.5	2160.9	2153.0
15°	2493.7	2460.7	2419.8	2389.4	2356.4	2330.0	2312.8	2293.0	2282.4	2274.5	2269.2
17.5°	2610.0	2571.7	2542.6	2512.2	2496.4	2476.6	2454.1	2429.0	2398.6	2380.2	2355.1
20°	2728.9	2699.8	2682.6	2665.5	2647.0	2619.2	2574.3	2522.8	2466.0	2411.9	2360.3
22.5°	2867.5	2850.4	2847.7	2831.9	2793.6	2727.5	2644.3	2547.9	2451.5	2361.7	2291.7
25°	3063.0	3063.0	3049.8	2985.1	2895.3	2776.4	2636.4	2497.7	2369.6	2246.7	2154.3
27.5°	3308.7	3299.5	3234.7	3101.3	2940.2	2755.3	2567.7	2392.0	2228.3	2093.5	1974.7
30°	3579.5	3514.8	3376.1	3166.1	2924.3	2686.6	2456.8	2253.4	2060.5	1895.4	1755.4
32.5°	3860.8	3703.6	3454.0	3166.1	2868.9	2583.6	2318.1	2068.4	1847.9	1662.9	1496.5
35°	4115.7	3829.1	3472.5	3114.5	2760.6	2431.7	2123.9	1841.3	1577.1	1377.6	1195.4
37.5°	4346.9	3912.3	3452.7	3014.2	2603.4	2217.7	1857.1	1545.4	1246.9	1054.0	898.2
40°	4497.5	3929.5	3370.8	2857.0	2378.8	1928.4	1529.5	1180.8	944.4	768.7	664.4
42.5°	4591.2	3896.5	3238.7	2641.7	2076.4	1565.2	1147.8	846.7	671.0	573.2	533.6
45°	4644.1	3810.6	3043.2	2347.1	1710.5	1190.1	815.0	611.5	516.4	482.1	468.9
47.5°	4641.4	3671.9	2798.9	2006.4	1306.3	829.5	577.2	476.8	450.4	439.8	437.2
50°	4613.7	3501.5	2512.2	1636.5	943.1	578.5	457.0	428.0	421.3	414.7	412.1
52.5°	4575.4	3290.2	2195.2	1275.9	669.7	462.3	414.7	406.8	401.5	394.9	392.3
55°	4504.1	3030.0	1851.8	960.3	524.4	417.4	400.2	397.6	391.0	381.7	376.4
57.5°	4416.9	2765.8	1522.9	750.2	463.6	406.8	397.6	393.6	384.4	373.8	363.2
60°	4385.2	2547.9	1265.4	632.7	449.1	410.8	404.2	398.9	385.7	369.8	357.9
62.5°	4187.1	2302.2	1080.4	586.5	457.0	428.0	425.3	417.4	397.6	379.1	360.6
65°	3674.6	1946.9	915.3	554.8	472.9	457.0	459.7	447.8	428.0	402.9	369.8
67°	3107.9	1587.6	762.1	524.4	484.7	487.4	496.6	487.4	462.3	426.6	381.7
67.5°	2957.4	1496.5	723.8	515.1	487.4	495.3	505.9	499.3	474.2	433.2	387.0
70°	2197.9	1054.0	540.2	466.3	487.4	519.1	542.9	549.5	521.7	464.9	397.6
72.5°	1548.0	680.2	414.7	404.2	442.5	484.7	529.7	552.1	520.4	458.3	383.0
75°	929.9	425.3	336.8	343.4	372.5	416.1	451.7	461.0	421.3	381.7	331.5
77.5°	430.6	282.7	264.2	273.4	301.2	321.0	321.0	302.5	272.1	248.3	237.8
80°	253.6	231.1	229.8	247.0	265.5	251.0	228.5	203.4	187.6	179.6	175.7
82.5°	237.8	247.0	262.8	266.8	252.3	216.6	188.9	163.8	155.9	151.9	147.9
85°	280.0	299.8	273.4	252.3	223.2	182.3	147.9	126.8	122.8	118.9	113.6
87.5°	258.9	247.0	215.3	184.9	153.2	111.0	80.6	72.6	77.9	76.6	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°	2159.6	2159.6	2159.6	2159.6	2159.6
2.5°	2102.8	2102.8	2097.5	2094.9	2101.5
5°	2065.8	2067.1	2063.2	2061.8	2063.2
7.5°	2057.9	2056.5	2053.9	2051.3	2053.9
10°	2081.6	2080.3	2076.4	2079.0	2075.0
12.5°	2153.0	2160.9	2159.6	2162.2	2167.5
15°	2269.2	2267.9	2263.9	2266.6	2270.5
17.5°	2335.2	2324.7	2315.4	2311.5	2311.5
20°	2319.4	2289.0	2273.2	2263.9	2261.3
22.5°	2225.6	2182.0	2149.0	2141.1	2134.5
25°	2072.4	2018.2	1976.0	1966.7	1949.6
27.5°	1894.1	1821.4	1771.2	1760.7	1751.4
30°	1660.3	1577.1	1519.0	1482.0	1493.9
32.5°	1375.0	1295.7	1228.4	1168.9	1159.7
35°	1062.0	974.8	915.3	888.9	871.8
37.5°	792.5	719.9	680.2	655.1	656.5
40°	606.3	568.0	546.8	529.7	531.0
42.5°	505.9	488.7	483.4	475.5	471.5
45°	458.3	453.0	454.4	446.4	443.8
47.5°	431.9	428.0	429.3	424.0	422.7
50°	410.8	408.1	409.5	405.5	404.2
52.5°	389.6	391.0	389.6	387.0	387.0
55°	371.2	369.8	372.5	368.5	368.5
57.5°	356.6	355.3	355.3	354.0	354.0
60°	348.7	343.4	342.1	342.1	343.4
62.5°	344.7	335.5	334.2	334.2	335.5
65°	346.1	331.5	326.2	324.9	323.6
67°	347.4	326.2	315.7	310.4	309.1
67.5°	348.7	323.6	311.7	306.4	303.8
70°	340.8	305.1	287.9	278.7	276.1
72.5°	321.0	282.7	261.5	249.6	247.0
75°	285.3	256.2	237.8	224.5	219.3
77.5°	220.6	207.4	200.8	192.8	190.2
80°	171.7	165.1	162.5	157.2	155.9
82.5°	142.7	136.0	132.1	125.5	121.5
85°	111.0	103.0	100.4	95.1	92.5
87.5°	72.6	68.7	67.4	60.8	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)