

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: P158686

Luminaire Tested: **VST-F06-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158686
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-F06-LED-E-U-SL4-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14743.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.5
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

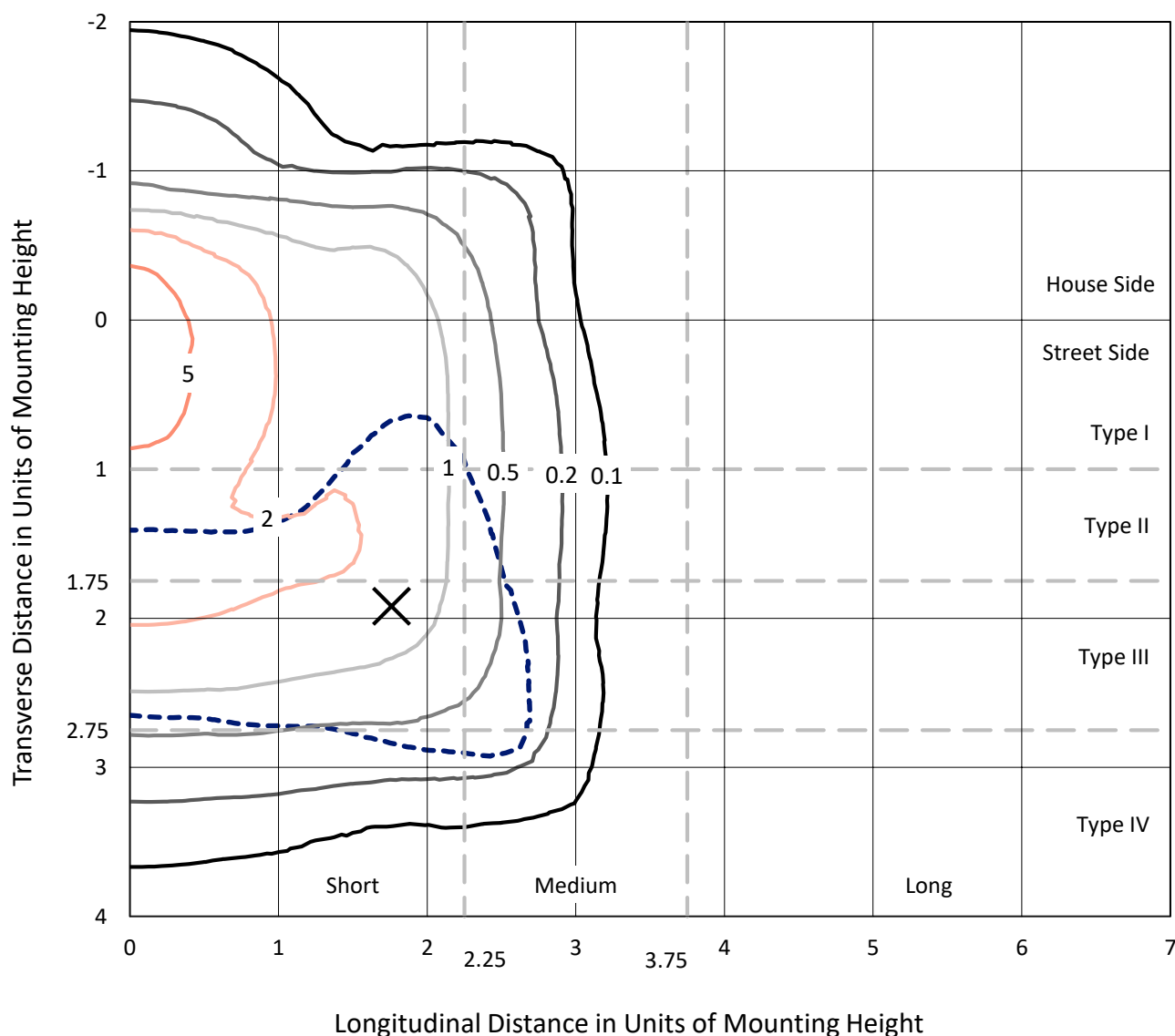


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

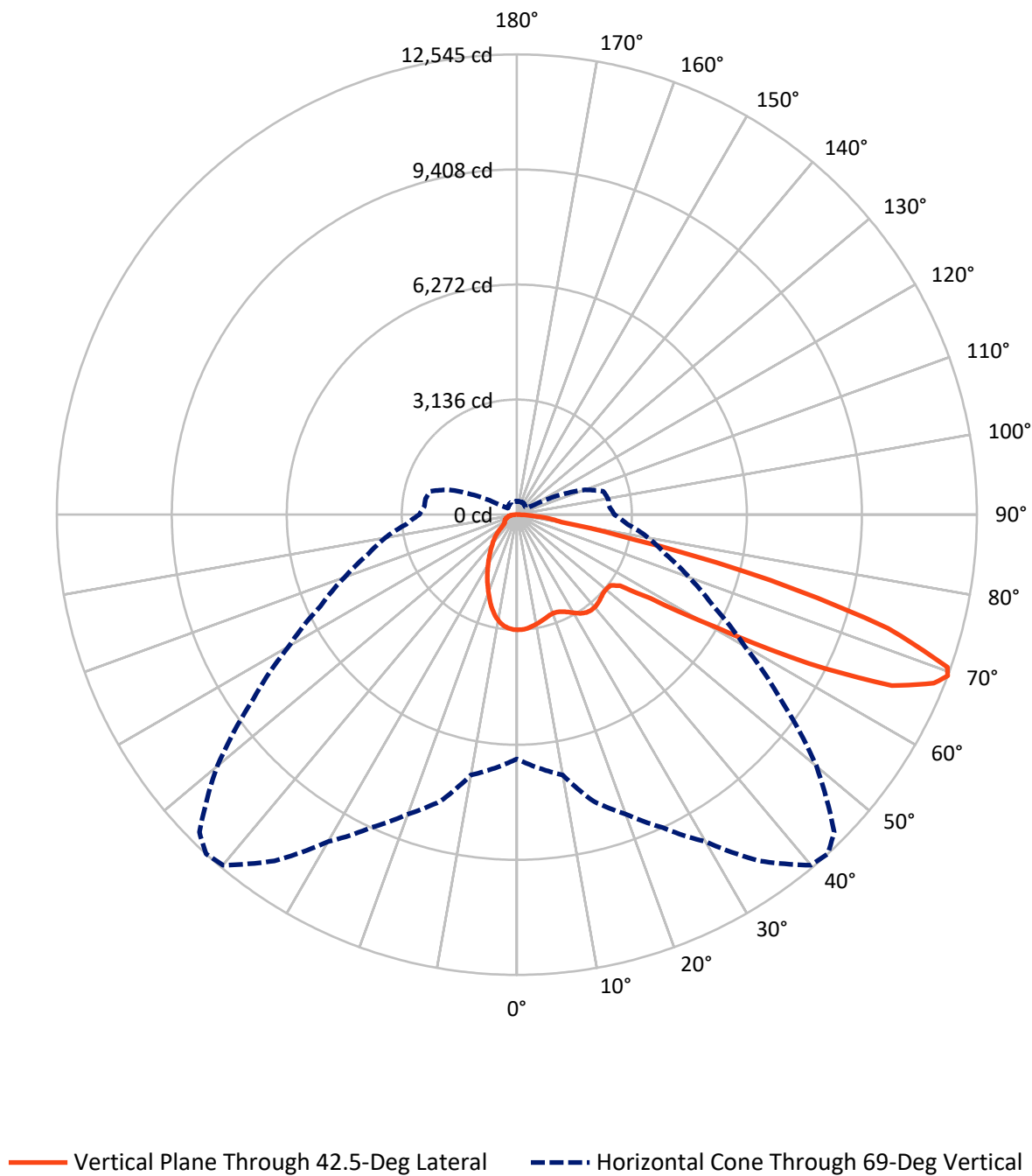


Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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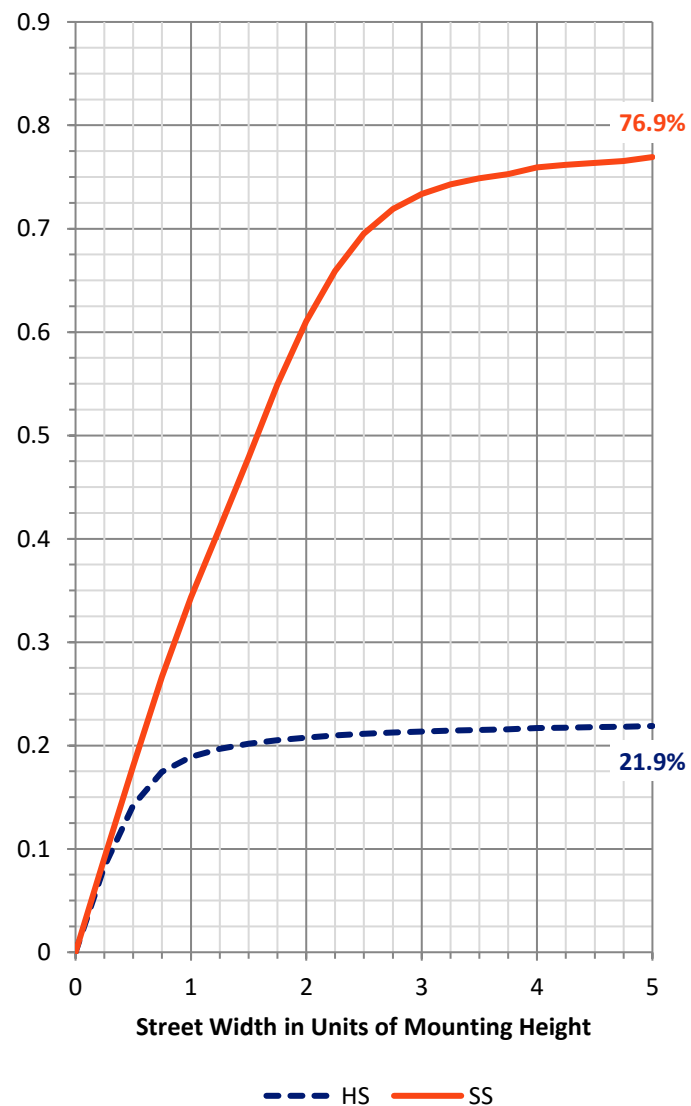
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3277.8	0.0	3277.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	11466.1	0.0	11466.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	14743.9	0.0	14743.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	2.0
10°-20°	787.8	5.3
20°-30°	1148.7	7.8
30°-40°	1464.4	9.9
40°-50°	1703.9	11.6
50°-60°	2592.4	17.6
60°-70°	4579.4	31.1
70°-80°	1889.7	12.8
80°-90°	285.3	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°	14743.9	100.0
0°-180°	14743.9	100.0

Coefficient of Utilization



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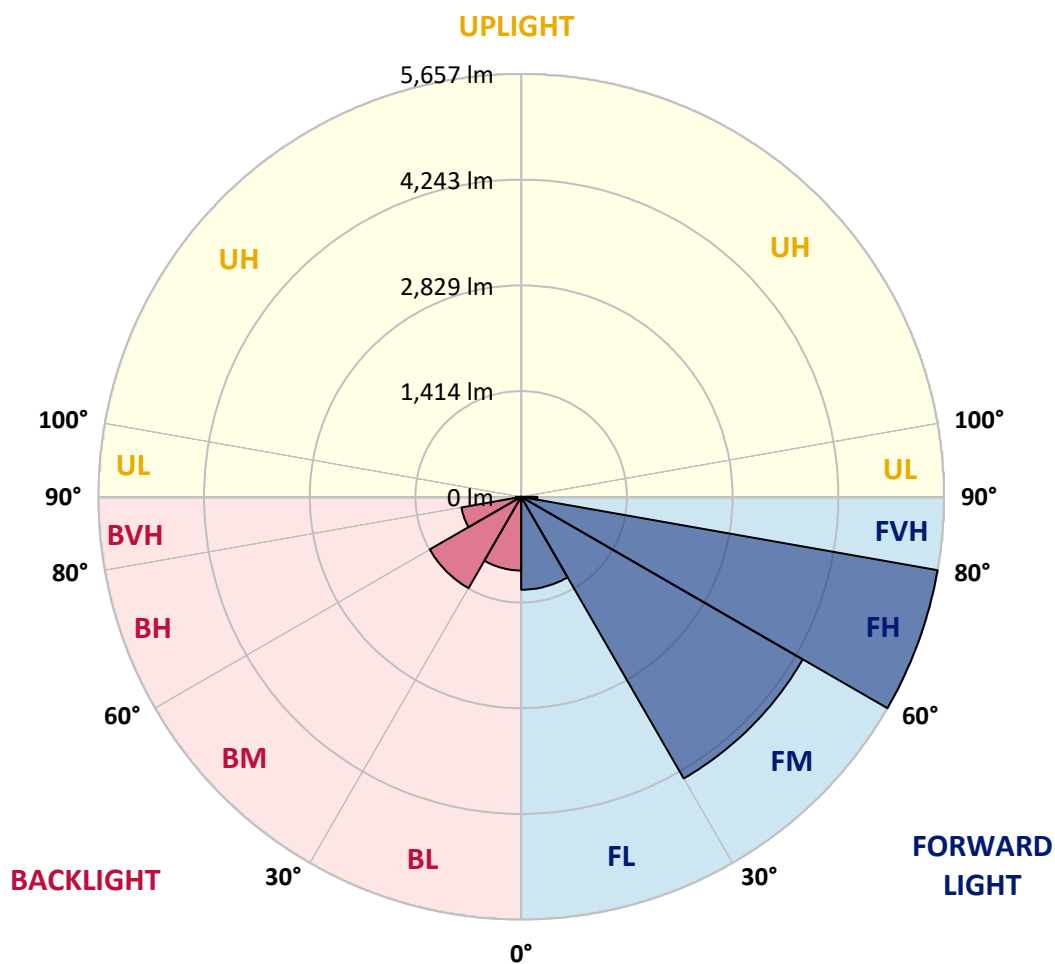
CATALOG NUMBER: VST-F06-LED-E-U-SL4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.3	8.4			
FM	(30°-60°)	4349.8	29.5			
FH	(60°-80°)	5657.2	38.4			G3/7500
FVH	(80°-90°)	215.8	1.5			G2/225
BL	(0°-30°)	985.5	6.7	B2/1000		
BM	(30°-60°)	1410.8	9.6	B2/2500		
BH	(60°-80°)	811.9	5.5	B2/1000		G2/1000
BVH	(80°-90°)	69.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9
2.5°	3129.8	3141.0	3136.9	3136.9	3139.9	3134.9	3134.9	3136.9	3131.8	3134.9	3133.8
5°	3118.6	3124.7	3122.7	3122.7	3122.7	3118.6	3116.6	3115.5	3108.4	3108.4	3105.4
7.5°	3094.2	3096.2	3099.3	3095.2	3094.2	3093.2	3086.1	3082.0	3073.9	3066.8	3068.8
10°	3061.7	3060.7	3065.7	3062.7	3058.6	3055.6	3049.5	3042.4	3033.2	3024.1	3023.0
12.5°	3025.1	3024.1	3028.1	3026.1	3023.0	3016.9	3011.9	2999.7	2985.4	2974.3	2973.2
15°	3001.7	2998.6	3002.7	2998.6	2993.6	2987.5	2978.3	2963.1	2937.7	2926.5	2917.3
17.5°	3024.1	3019.0	3021.0	3015.9	3008.8	2992.5	2971.2	2938.7	2902.1	2882.8	2868.5
20°	3102.3	3093.2	3095.2	3090.1	3073.9	3052.5	3011.9	2954.9	2892.9	2861.4	2839.1
22.5°	3214.1	3207.0	3210.1	3205.0	3188.7	3156.2	3095.2	3013.9	2925.5	2879.7	2844.1
25°	3383.9	3390.0	3392.0	3368.7	3359.5	3299.5	3215.2	3102.3	2984.4	2930.5	2881.8
27.5°	3575.0	3575.0	3584.1	3575.0	3556.7	3486.6	3367.6	3231.4	3080.0	3006.8	2947.8
30°	3761.0	3759.0	3776.3	3774.2	3744.8	3665.5	3530.3	3364.6	3191.8	3109.4	3034.2
32.5°	3958.2	3964.3	3975.5	3971.4	3932.8	3823.0	3660.4	3480.5	3298.5	3208.0	3123.7
35°	4171.7	4174.7	4178.8	4176.8	4098.5	3960.2	3755.9	3554.7	3365.6	3276.1	3188.7
37.5°	4385.1	4382.1	4377.0	4333.3	4243.8	4051.7	3813.9	3597.4	3399.1	3302.6	3212.1
40°	4576.2	4559.0	4542.7	4474.6	4337.4	4103.6	3836.2	3607.5	3396.1	3296.5	3208.0
42.5°	4680.9	4661.6	4628.1	4542.7	4376.0	4108.7	3821.0	3577.0	3364.6	3266.0	3178.6
45°	4700.3	4686.0	4653.5	4557.9	4366.8	4076.1	3774.2	3527.2	3317.8	3219.2	3136.9
47.5°	4654.5	4643.3	4611.8	4517.3	4327.2	4027.3	3720.4	3474.4	3272.1	3179.6	3100.3
50°	4584.4	4574.2	4549.8	4463.4	4282.5	3993.8	3692.9	3446.9	3256.8	3172.5	3099.3
52.5°	4698.2	4706.4	4635.2	4540.7	4330.3	4023.3	3723.4	3475.4	3284.3	3200.9	3124.7
55°	6467.9	6456.7	6028.8	5670.0	5028.6	4447.1	4013.1	3701.0	3496.7	3413.4	3342.2
57.5°	8404.3	8365.7	8189.9	7854.4	7165.2	6245.3	5408.7	4697.2	4416.7	4296.7	4304.8
60°	9036.6	9050.8	9013.2	8894.3	8647.3	8168.5	7532.2	6997.5	6471.0	6213.8	6243.3
62.5°	9387.3	9412.7	9445.2	9418.8	9338.5	9227.7	9147.4	9196.2	9123.0	8938.0	8790.6
65°	9436.1	9487.9	9595.7	9681.1	9722.7	9827.4	10073.4	10663.0	11201.7	11237.3	10978.1
67.5°	8470.4	8613.7	8847.5	9243.0	9581.4	9953.5	10547.1	11443.7	12238.5	12265.0	12023.1
69°	6660.0	6935.5	7209.0	8092.3	8686.9	9415.8	10294.0	11518.9	12471.3	12544.5	12239.6
70°	5336.6	5500.2	5736.1	6623.5	7511.9	8440.9	9713.6	11270.8	12311.7	12459.1	12122.7
72.5°	3204.0	3267.0	3348.3	3666.5	4123.9	4951.3	6638.7	9189.1	10385.5	10582.7	10154.7
75°	2071.6	2067.5	2074.7	2163.1	2189.5	2348.1	2879.7	4727.7	6774.9	7132.7	6620.4
77.5°	1560.3	1574.5	1552.2	1560.3	1553.2	1595.9	1612.2	1692.5	2674.4	3294.4	2945.8
80°	1377.3	1384.5	1385.5	1381.4	1331.6	1327.5	1354.0	1308.2	1215.7	1234.0	1182.2
82.5°	785.7	784.7	793.9	863.0	891.5	985.0	1023.6	1045.0	964.6	904.7	818.3
85°	509.3	513.3	523.5	544.8	523.5	531.6	522.5	540.8	496.0	460.5	411.7
87.5°	208.4	208.4	221.6	240.9	224.6	220.6	189.1	187.0	158.6	143.3	111.8
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9
2.5°	3127.7	3133.8	3130.8	3134.9	3131.8	3131.8	3127.7	3126.7	3129.8	3125.7	3126.7
5°	3100.3	3101.3	3096.2	3098.3	3092.2	3090.1	3087.1	3079.0	3084.0	3079.0	3081.0
7.5°	3060.7	3057.6	3050.5	3040.3	3033.2	3030.2	3024.1	3012.9	3014.9	3005.8	3010.8
10°	3009.8	2999.7	2987.5	2972.2	2962.1	2952.9	2939.7	2926.5	2919.4	2911.2	2910.2
12.5°	2952.9	2940.7	2924.4	2901.1	2878.7	2863.5	2843.1	2819.7	2812.6	2799.4	2792.3
15°	2890.9	2871.6	2852.3	2825.8	2801.4	2778.1	2750.6	2721.1	2701.8	2681.5	2666.3
17.5°	2835.0	2812.6	2787.2	2761.8	2735.4	2706.9	2672.4	2635.8	2607.3	2569.7	2539.2
20°	2791.3	2762.8	2737.4	2711.0	2681.5	2646.9	2605.3	2558.5	2510.7	2469.1	2433.5
22.5°	2774.0	2729.3	2698.8	2672.4	2642.9	2602.2	2551.4	2496.5	2438.6	2380.6	2333.9
25°	2788.2	2722.2	2674.4	2642.9	2617.5	2575.8	2518.9	2451.8	2384.7	2315.6	2252.5
27.5°	2829.9	2745.5	2676.4	2626.6	2597.1	2555.5	2495.5	2424.3	2345.0	2267.8	2190.5
30°	2895.0	2785.2	2697.8	2627.6	2581.9	2534.1	2471.1	2388.8	2308.5	2220.0	2135.6
32.5°	2958.0	2826.9	2722.2	2631.7	2561.6	2499.6	2429.4	2348.1	2261.7	2169.2	2081.8
35°	3002.7	2854.3	2731.3	2622.5	2530.0	2452.8	2377.6	2296.3	2211.9	2117.4	2027.9
37.5°	3024.1	2869.6	2732.3	2598.2	2488.4	2403.0	2322.7	2242.4	2163.1	2073.6	1989.3
40°	3023.0	2868.5	2718.1	2566.6	2438.6	2348.1	2268.8	2190.5	2116.3	2038.1	1961.8
42.5°	3000.7	2852.3	2697.8	2536.1	2403.0	2302.4	2220.0	2144.8	2081.8	2012.7	1948.6
45°	2966.1	2824.8	2676.4	2521.9	2392.8	2292.2	2204.8	2131.6	2075.7	2012.7	1957.8
47.5°	2939.7	2809.6	2679.5	2547.3	2424.3	2319.6	2227.1	2146.8	2099.1	2048.2	2009.6
50°	2943.8	2816.7	2689.6	2562.6	2446.7	2341.0	2251.5	2178.3	2143.8	2130.6	2121.4
52.5°	2965.1	2827.9	2720.1	2643.9	2604.2	2525.0	2472.1	2426.4	2451.8	2402.0	2343.0
55°	3237.5	3192.8	3297.5	3396.1	3521.1	3567.9	3523.2	3515.0	3555.7	3386.9	2999.7
57.5°	4362.8	4478.7	4640.3	4725.7	4829.3	4801.9	4698.2	4611.8	4510.2	4313.0	3830.1
60°	6276.8	6189.4	6116.2	5909.9	5741.1	5543.9	5324.4	5136.3	4956.4	4672.8	4150.3
62.5°	8248.8	7642.0	7134.7	6644.8	6250.4	5923.1	5604.9	5322.3	5049.9	4654.5	4092.4
65°	9954.5	8676.8	7724.3	7005.7	6429.3	5932.2	5523.6	5133.3	4786.7	4323.1	3767.1
67.5°	10720.9	9120.0	7734.5	6704.8	5906.8	5231.9	4703.3	4113.7	3725.4	3428.6	3115.5
69°	10664.0	8781.5	7182.5	5915.0	4998.1	4211.3	3644.1	3029.1	2657.1	2531.1	2523.9
70°	10393.6	8208.2	6538.1	5273.6	4224.5	3442.9	2899.0	2347.1	2000.5	1914.1	2067.5
72.5°	8485.7	5800.1	4097.5	3128.8	2406.0	1901.9	1551.2	1231.0	982.9	851.8	880.3
75°	4792.8	2685.6	1736.2	1312.3	1109.0	916.9	786.8	670.9	606.8	493.0	390.3
77.5°	1742.3	1152.7	916.9	792.9	562.1	387.3	324.3	283.6	257.2	257.2	245.0
80°	1101.9	868.1	605.8	414.7	307.0	267.3	233.8	205.3	189.1	185.0	189.1
82.5°	688.2	531.6	339.5	260.2	218.5	196.2	170.8	149.4	136.2	133.2	139.3
85°	339.5	263.3	206.3	184.0	172.8	160.6	141.3	121.0	116.9	125.0	146.4
87.5°	101.6	90.5	74.2	77.3	81.3	79.3	63.0	54.9	51.8	68.1	106.7
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°	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9	3139.9
2.5°	3128.8	3127.7	3129.8	3126.7	3128.8	3129.8	3127.7	3136.9	3130.8	3131.8	3135.9
5°	3083.0	3081.0	3089.1	3087.1	3091.1	3095.2	3093.2	3106.4	3101.3	3105.4	3113.5
7.5°	3006.8	3010.8	3011.9	3011.9	3020.0	3033.2	3036.3	3044.4	3044.4	3055.6	3063.7
10°	2905.1	2906.1	2912.2	2911.2	2921.4	2935.6	2937.7	2951.9	2957.0	2975.3	2986.4
12.5°	2787.2	2782.1	2781.1	2780.1	2793.3	2808.6	2810.6	2835.0	2845.2	2861.4	2879.7
15°	2655.1	2641.9	2637.8	2645.9	2642.9	2652.0	2661.2	2674.4	2688.6	2721.1	2737.4
17.5°	2526.0	2499.6	2492.4	2483.3	2474.1	2474.1	2478.2	2494.5	2523.9	2541.2	2577.8
20°	2393.8	2362.3	2336.9	2312.5	2291.2	2283.0	2284.1	2304.4	2325.7	2354.2	2388.8
22.5°	2283.0	2235.3	2191.6	2159.0	2115.3	2114.3	2108.2	2114.3	2137.7	2144.8	2164.1
25°	2187.5	2123.4	2064.5	2011.6	1968.9	1946.6	1940.5	1938.4	1927.3	1924.2	1910.0
27.5°	2113.3	2036.0	1959.8	1895.8	1842.9	1812.4	1773.8	1746.3	1706.7	1696.5	1671.1
30°	2052.3	1968.9	1885.6	1802.2	1742.3	1687.4	1622.3	1574.5	1513.6	1473.9	1439.4
32.5°	1993.3	1909.0	1824.6	1742.3	1649.8	1564.4	1479.0	1404.8	1336.7	1275.7	1224.9
35°	1944.5	1864.2	1778.9	1679.2	1561.3	1438.3	1335.7	1251.3	1157.8	1093.7	1029.7
37.5°	1913.0	1839.8	1754.5	1617.2	1465.8	1333.6	1216.7	1114.1	1018.5	922.0	849.8
40°	1898.8	1834.8	1728.0	1560.3	1382.4	1236.1	1107.0	993.1	871.1	762.4	685.1
42.5°	1897.8	1832.7	1691.4	1497.3	1313.3	1153.7	1010.4	874.2	739.0	627.2	550.9
45°	1916.1	1829.7	1652.8	1444.4	1252.3	1085.6	914.8	749.2	597.7	514.3	473.7
47.5°	1964.9	1834.8	1621.3	1395.6	1194.4	1003.3	805.1	611.9	486.9	448.3	448.3
50°	2052.3	1864.2	1613.2	1361.1	1136.4	907.7	670.9	494.0	431.0	431.0	443.2
52.5°	2186.5	1926.2	1627.4	1336.7	1064.3	781.7	528.6	425.9	413.7	424.9	441.2
55°	2495.5	2036.0	1646.7	1295.0	954.5	620.1	436.1	402.5	407.6	420.8	436.1
57.5°	3062.7	2270.8	1667.0	1203.5	777.6	477.8	395.4	393.4	402.5	414.7	427.9
60°	3435.7	2569.7	1718.9	1065.3	588.5	394.4	375.1	387.3	398.5	408.6	418.8
62.5°	3435.7	2654.1	1757.5	910.8	442.2	358.8	361.9	381.2	394.4	399.5	405.6
65°	3216.2	2499.6	1626.4	742.0	359.8	338.5	349.7	369.0	381.2	385.2	390.3
67.5°	2810.6	2207.8	1370.2	559.1	321.2	321.2	335.4	349.7	359.8	368.0	376.1
69°	2443.6	1981.1	1206.6	473.7	306.0	308.0	322.2	334.4	346.6	356.8	367.0
70°	2179.4	1811.4	1092.7	430.0	296.8	297.8	312.1	325.3	336.5	347.6	359.8
72.5°	1166.9	1251.3	830.5	352.7	273.4	276.5	289.7	301.9	312.1	323.2	334.4
75°	397.4	537.7	528.6	288.7	247.0	255.1	263.3	274.5	287.7	294.8	300.9
77.5°	232.8	240.9	281.6	234.8	222.6	226.7	235.8	245.0	256.2	263.3	268.4
80°	195.2	194.1	195.2	191.1	194.1	203.3	209.4	221.6	231.8	233.8	232.8
82.5°	158.6	166.7	167.7	165.7	174.8	182.0	187.0	194.1	193.1	195.2	199.2
85°	141.3	140.3	147.4	148.4	148.4	143.3	144.3	144.3	144.3	147.4	148.4
87.5°	141.3	117.9	91.5	82.3	86.4	81.3	77.3	76.2	84.4	92.5	90.5
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°	3139.9	3139.9	3139.9	3139.9	3139.9
2.5°	3137.9	3141.0	3138.9	3138.9	3141.0
5°	3116.6	3121.6	3119.6	3121.6	3121.6
7.5°	3067.8	3074.9	3080.0	3085.0	3082.0
10°	2997.6	3009.8	3018.0	3024.1	3021.0
12.5°	2892.9	2904.1	2921.4	2931.6	2923.4
15°	2749.6	2781.1	2791.3	2805.5	2797.4
17.5°	2600.2	2619.5	2631.7	2644.9	2653.0
20°	2401.0	2416.2	2432.5	2438.6	2429.4
22.5°	2161.1	2169.2	2166.1	2175.3	2157.0
25°	1897.8	1902.9	1899.8	1908.0	1892.7
27.5°	1648.7	1647.7	1648.7	1638.6	1628.4
30°	1408.9	1399.7	1395.6	1380.4	1377.3
32.5°	1194.4	1162.9	1146.6	1124.2	1119.2
35°	979.9	935.2	905.7	880.3	869.1
37.5°	787.8	733.9	699.3	677.0	673.9
40°	623.1	573.3	548.9	536.7	534.7
42.5°	508.2	486.9	480.8	480.8	480.8
45°	463.5	462.5	467.6	471.7	472.7
47.5°	454.4	460.5	467.6	473.7	475.7
50°	454.4	460.5	465.6	471.7	473.7
52.5°	452.3	457.4	459.5	463.5	465.6
55°	446.2	449.3	449.3	451.3	453.4
57.5°	436.1	438.1	435.1	437.1	442.2
60°	425.9	427.9	422.9	427.9	431.0
62.5°	414.7	415.7	413.7	417.8	417.8
65°	396.4	394.4	397.4	400.5	401.5
67.5°	378.1	373.1	376.1	377.1	379.2
69°	363.9	360.9	361.9	363.9	365.9
70°	353.7	351.7	353.7	356.8	359.8
72.5°	328.3	329.3	336.5	342.6	348.7
75°	304.9	312.1	321.2	334.4	341.5
77.5°	276.5	281.6	288.7	302.9	316.1
80°	238.9	241.9	242.9	248.0	247.0
82.5°	194.1	191.1	189.1	187.0	186.0
85°	139.3	138.2	130.1	124.0	124.0
87.5°	83.4	79.3	75.2	70.1	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)