

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: P158461

Luminaire Tested: **VST-E06-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158461
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-E06-LED-E-U-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18573.7 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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



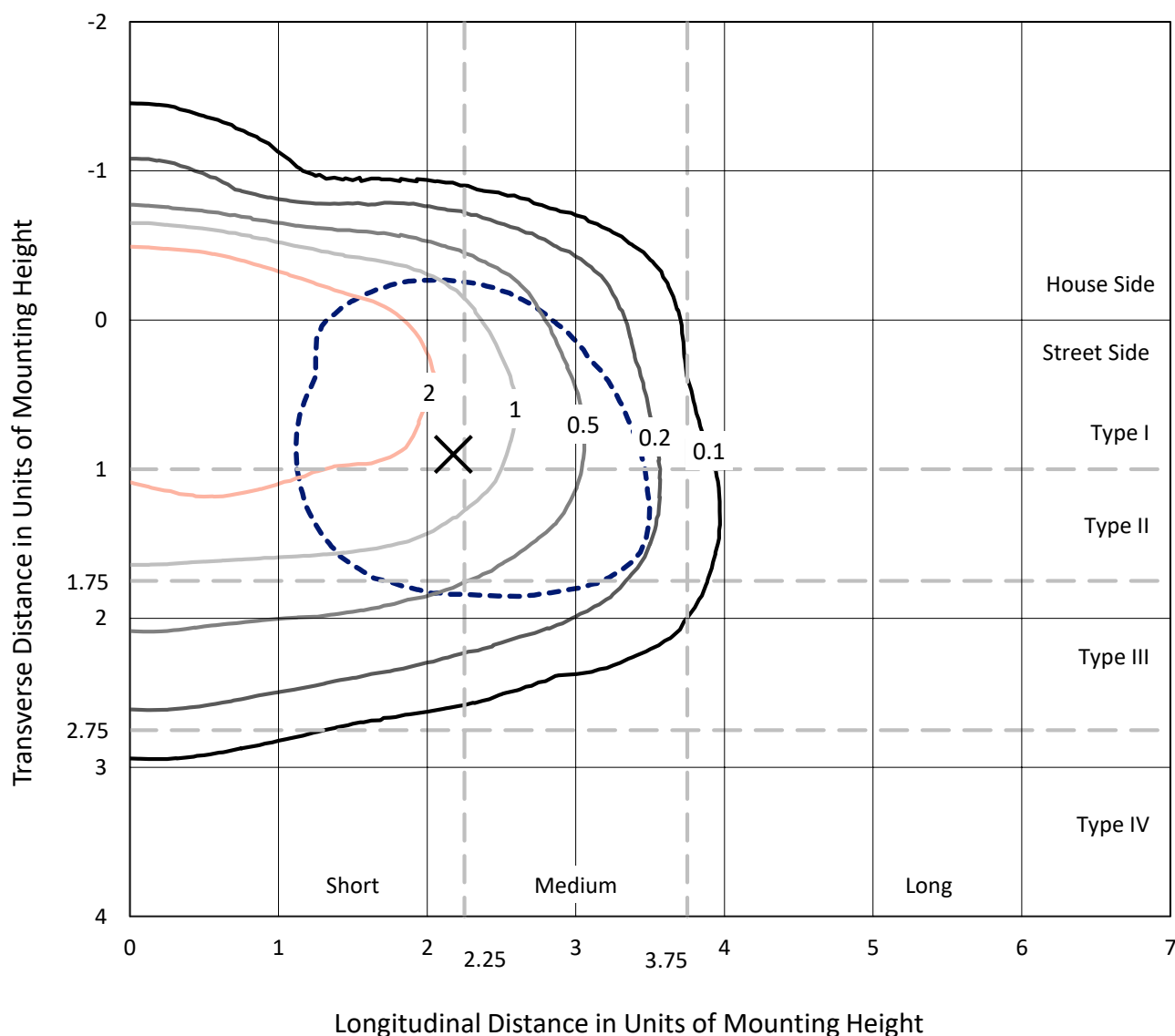
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

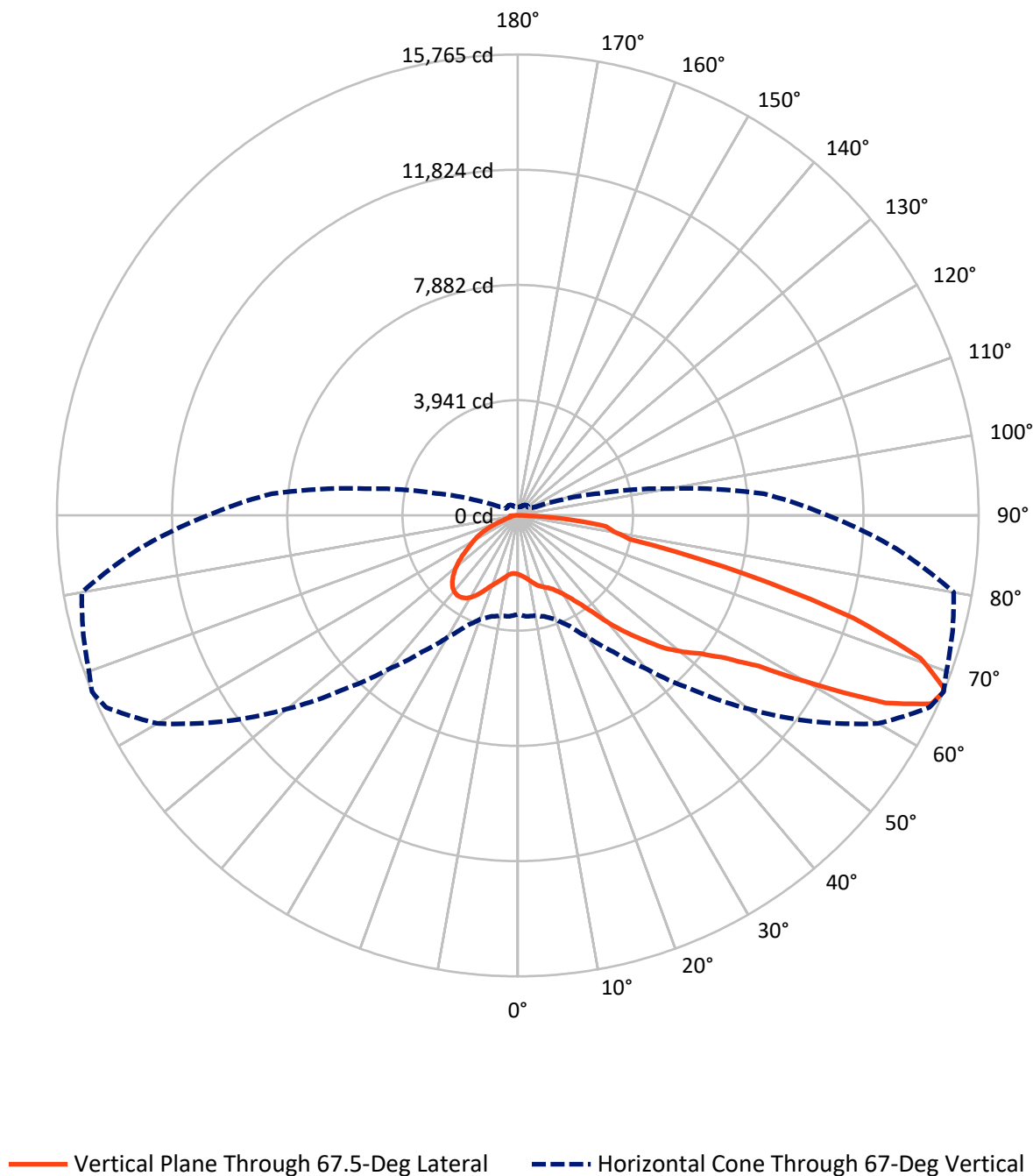


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4455.9	0.0	4455.9
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	14117.9	0.0	14117.9
	% Fixture	76.0	0.0	76.0
Total	Lumens	18573.7	0.0	18573.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	1.1
10°-20°	681.7	3.7
20°-30°	1217.1	6.6
30°-40°	1783.7	9.6
40°-50°	2756.0	14.8
50°-60°	4013.2	21.6
60°-70°	5227.9	28.1
70°-80°	2340.2	12.6
80°-90°	353.8	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°	18573.7	100.0
0°-180°	18573.7	100.0

Coefficient of Utilization



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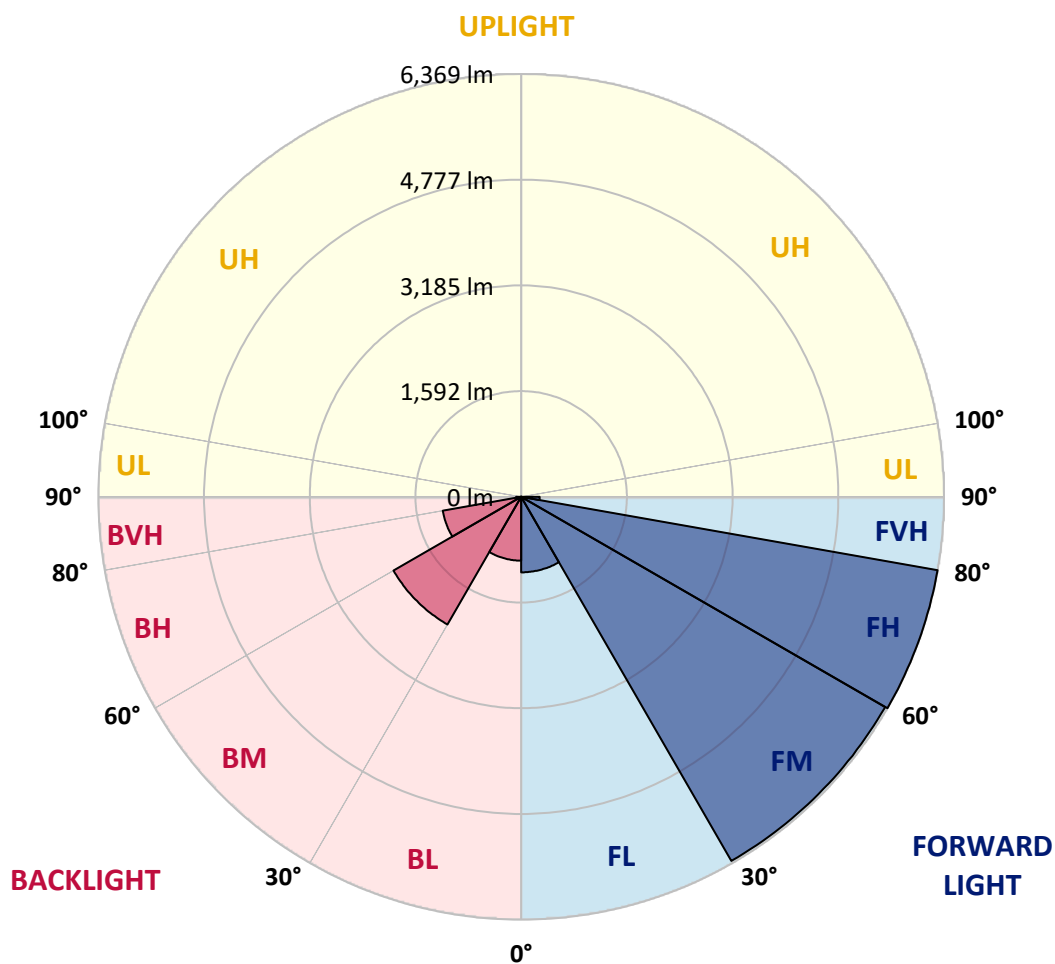
CATALOG NUMBER: VST-E06-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1138.0	6.1			
FM	(30°-60°)	6332.7	34.1			
FH	(60°-80°)	6369.3	34.3			G3/7500
FVH	(80°-90°)	277.9	1.5			G3/500
BL	(0°-30°)	960.8	5.2	B2/1000		
BM	(30°-60°)	2220.3	12.0	B2/2500		
BH	(60°-80°)	1198.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	76.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	2092.0	2096.9	2098.2	2096.9	2098.2	2093.3	2092.0	2084.6	2088.3	2078.5	2076.0
5°	2205.3	2209.0	2211.5	2201.6	2204.1	2199.1	2193.0	2185.6	2175.8	2162.2	2153.6
7.5°	2316.1	2322.3	2321.1	2317.4	2308.7	2303.8	2291.5	2280.4	2263.2	2247.2	2236.1
10°	2465.1	2463.9	2463.9	2443.0	2430.6	2419.6	2397.4	2380.2	2362.9	2339.5	2327.2
12.5°	2637.5	2628.9	2625.2	2610.4	2584.6	2564.9	2532.8	2499.6	2468.8	2444.2	2424.5
15°	2803.7	2803.7	2793.9	2770.5	2745.9	2720.0	2674.4	2626.4	2575.9	2536.5	2516.8
17.5°	2955.2	2941.6	2933.0	2902.2	2876.4	2834.5	2784.0	2732.3	2669.5	2614.1	2575.9
20°	3066.0	3054.9	3036.5	2998.3	2954.0	2904.7	2845.6	2785.3	2717.5	2657.2	2614.1
22.5°	3130.0	3116.5	3088.2	3037.7	2977.3	2908.4	2839.4	2782.8	2721.2	2675.7	2640.0
25°	3163.3	3149.7	3111.6	3045.1	2963.8	2872.7	2793.9	2738.5	2702.8	2691.7	2686.8
27.5°	3162.0	3151.0	3110.3	3034.0	2929.3	2824.7	2739.7	2692.9	2689.2	2732.3	2764.3
30°	3130.0	3122.6	3085.7	3009.4	2899.8	2790.2	2711.4	2686.8	2724.9	2816.0	2894.8
32.5°	3098.0	3094.3	3068.5	2999.5	2905.9	2813.6	2759.4	2761.9	2840.7	2981.0	3107.9
35°	3101.7	3106.6	3102.9	3066.0	3006.9	2958.9	2933.0	2987.2	3110.3	3280.3	3450.2
37.5°	3133.7	3152.2	3175.6	3179.3	3180.5	3173.1	3227.3	3341.8	3521.6	3743.2	4009.2
40°	3203.9	3224.8	3292.6	3351.7	3428.0	3519.1	3628.7	3787.6	4010.4	4283.8	4610.1
42.5°	3421.9	3451.4	3535.1	3644.7	3785.1	3927.9	4091.7	4308.4	4581.8	4869.9	5212.2
45°	3706.3	3767.9	3860.2	3982.1	4192.7	4393.4	4605.2	4847.7	5138.3	5499.1	5843.9
47.5°	4060.9	4122.5	4256.7	4387.2	4635.9	4885.9	5117.4	5371.0	5686.3	6055.7	6437.4
50°	4371.2	4441.4	4560.8	4736.9	5025.0	5331.6	5587.8	5862.3	6127.1	6516.2	6901.6
52.5°	4615.0	4665.5	4780.0	4941.3	5262.7	5598.8	5922.7	6228.0	6542.0	6931.1	7288.2
55°	4645.8	4692.6	4804.6	4989.3	5315.6	5688.7	6061.8	6423.8	6868.3	7293.1	7766.0
57.5°	4512.8	4551.0	4664.3	4829.3	5146.9	5571.8	6043.4	6507.6	7076.4	7650.2	8227.7
60°	4324.4	4362.6	4451.2	4583.0	4869.9	5327.9	5878.4	6513.7	7269.8	8098.4	8948.0
62.5°	4117.6	4150.8	4222.2	4315.8	4568.2	4990.6	5621.0	6473.1	7427.4	8544.2	9854.3
65°	3769.1	3849.1	3879.9	3976.0	4228.4	4627.3	5268.8	6198.5	7363.3	8742.4	10423.2
67°	3383.7	3465.0	3481.0	3578.2	3780.2	4163.1	4815.7	5690.0	6856.0	8400.1	10297.6
67.5°	3260.6	3329.5	3354.1	3451.4	3642.3	4003.0	4622.4	5506.5	6700.9	8212.9	10146.1
70°	2397.4	2473.7	2500.8	2541.5	2678.1	2978.6	3388.6	4155.7	5342.7	6702.1	8559.0
72.5°	1283.0	1344.6	1370.5	1430.8	1501.0	1664.8	1978.7	2529.1	3279.0	4484.5	6088.9
75°	868.1	892.7	911.2	953.0	1025.7	1156.2	1294.1	1487.4	1940.6	2530.4	3465.0
77.5°	495.0	506.1	508.5	515.9	573.8	698.2	924.7	1252.3	1605.6	1833.4	2216.4
80°	214.3	236.4	253.7	242.6	238.9	264.7	331.2	493.8	967.8	1536.7	1823.6
82.5°	115.7	125.6	140.4	141.6	149.0	157.6	171.2	203.2	285.7	576.3	1257.2
85°	60.3	62.8	83.7	96.0	102.2	107.1	109.6	121.9	140.4	178.5	312.8
87.5°	8.6	12.3	14.8	19.7	22.2	23.4	27.1	34.5	40.6	49.3	83.7
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	2064.9	2062.5	2055.1	2050.2	2045.2	2040.3	2034.2	2029.2	2020.6	2014.5	2007.1
5°	2141.3	2126.5	2116.7	2103.1	2100.6	2084.6	2068.6	2061.2	2046.5	2034.2	2019.4
7.5°	2218.9	2201.6	2185.6	2174.5	2168.4	2146.2	2130.2	2111.7	2094.5	2078.5	2061.2
10°	2310.0	2292.7	2275.5	2268.1	2257.0	2236.1	2222.5	2199.1	2181.9	2162.2	2138.8
12.5°	2404.8	2392.5	2380.2	2370.3	2365.4	2355.5	2335.8	2316.1	2292.7	2273.0	2245.9
15°	2488.5	2479.9	2475.0	2472.5	2472.5	2466.3	2447.9	2429.4	2404.8	2382.6	2353.1
17.5°	2547.6	2543.9	2547.6	2551.3	2556.2	2551.3	2547.6	2526.7	2510.7	2483.6	2454.0
20°	2582.1	2589.5	2607.9	2620.3	2631.3	2640.0	2643.7	2626.4	2605.5	2585.8	2566.1
22.5°	2619.0	2640.0	2672.0	2690.4	2708.9	2739.7	2747.1	2734.8	2718.8	2706.5	2685.5
25°	2680.6	2711.4	2766.8	2796.3	2822.2	2867.8	2873.9	2876.4	2872.7	2862.8	2837.0
27.5°	2776.6	2837.0	2910.9	2949.0	2977.3	3036.5	3059.8	3059.8	3050.0	3061.1	3061.1
30°	2944.1	3024.1	3120.2	3142.3	3186.7	3238.4	3276.6	3281.5	3282.7	3306.1	3340.6
32.5°	3201.4	3277.8	3384.9	3409.5	3447.7	3497.0	3540.1	3535.1	3546.2	3596.7	3642.3
35°	3575.8	3653.3	3723.5	3756.8	3774.0	3818.3	3834.4	3861.4	3894.7	3957.5	3951.3
37.5°	4129.9	4198.8	4208.7	4229.6	4208.7	4217.3	4229.6	4261.6	4350.3	4406.9	4315.8
40°	4797.2	4911.8	4900.7	4876.1	4829.3	4766.5	4788.6	4837.9	4933.9	4884.7	4639.6
42.5°	5426.5	5544.7	5522.5	5494.2	5390.7	5367.4	5364.9	5405.5	5457.2	5316.9	4893.3
45°	6045.8	6166.5	6128.3	6112.3	6043.4	5992.9	6034.7	6037.2	6023.6	5723.2	5114.9
47.5°	6684.9	6795.7	6771.1	6784.6	6713.2	6679.9	6683.6	6666.4	6539.6	6068.0	5287.3
50°	7200.8	7349.8	7364.6	7333.8	7295.6	7245.1	7374.4	7327.6	7045.7	6402.9	5453.5
52.5°	7602.2	7802.9	7879.3	7859.6	7828.8	7834.9	8077.5	8130.4	7663.8	6825.2	5637.0
55°	8077.5	8394.0	8518.3	8592.2	8560.2	8683.3	9238.6	9265.7	8523.2	7376.9	5875.9
57.5°	8763.4	9216.5	9609.3	9713.9	9814.9	10215.1	11116.4	10841.8	9638.8	8211.7	6178.8
60°	9806.3	10798.7	11436.6	11771.5	12007.9	12566.9	13423.9	12728.2	11029.0	9205.4	6559.3
62.5°	11266.6	12717.1	13783.5	14119.6	14216.9	14538.3	15158.9	13827.8	11786.3	9651.1	6592.5
65°	12353.9	14093.8	15370.6	15543.0	15427.3	15433.4	15596.0	13769.9	11504.3	9262.0	6021.2
67°	12282.5	14230.4	15538.1	15764.7	15604.6	15394.0	15140.4	12985.6	10598.0	8446.9	5272.5
67.5°	12172.9	14098.7	15465.5	15704.3	15557.8	15317.7	14947.1	12681.4	10316.1	8193.2	5119.9
70°	10522.9	12435.2	14276.0	14612.2	14673.7	14454.5	13414.1	10692.8	8375.5	6665.2	3976.0
72.5°	8190.8	9893.7	11714.8	12006.7	12243.1	11611.4	9763.2	7385.5	6104.9	4803.4	2878.8
75°	5408.0	7140.5	8059.0	8102.1	7800.5	6630.7	4770.2	3698.9	3404.6	2823.4	1781.7
77.5°	2893.6	4198.8	4224.7	3911.9	3769.1	2809.9	1140.2	629.2	700.6	795.4	709.2
80°	2158.5	2674.4	3099.2	3332.0	3400.9	2409.7	589.8	333.7	291.8	266.0	262.3
82.5°	1946.7	2583.3	2896.1	3022.9	2990.9	1982.4	331.2	224.1	185.9	201.9	230.3
85°	763.4	1379.1	1813.7	1755.9	1475.1	738.8	181.0	120.7	120.7	174.8	226.6
87.5°	156.4	283.2	384.2	366.9	330.0	142.8	88.7	72.6	73.9	141.6	214.3
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°	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	1999.7	1992.3	1987.4	1982.4	1977.5	1975.0	1971.4	1971.4	1964.0	1961.5	1959.0
5°	2008.3	1996.0	1987.4	1976.3	1967.7	1960.3	1950.4	1948.0	1939.3	1933.2	1930.7
7.5°	2045.2	2026.8	2008.3	1994.7	1982.4	1966.4	1955.3	1945.5	1936.9	1930.7	1923.3
10°	2115.4	2095.7	2069.9	2045.2	2029.2	2004.6	1987.4	1970.1	1960.3	1952.9	1943.0
12.5°	2218.9	2190.5	2159.7	2130.2	2103.1	2071.1	2053.9	2032.9	2020.6	2014.5	2007.1
15°	2324.7	2294.0	2255.8	2227.5	2196.7	2172.1	2156.1	2137.6	2127.7	2120.3	2115.4
17.5°	2433.1	2397.4	2370.3	2342.0	2327.2	2308.7	2287.8	2264.4	2236.1	2218.9	2195.5
20°	2543.9	2516.8	2500.8	2484.8	2467.6	2441.7	2399.9	2351.8	2298.9	2248.4	2200.4
22.5°	2673.2	2657.2	2654.7	2640.0	2604.3	2542.7	2465.1	2375.2	2285.3	2201.6	2136.4
25°	2855.4	2855.4	2843.1	2782.8	2699.1	2588.2	2457.7	2328.4	2209.0	2094.5	2008.3
27.5°	3084.5	3075.9	3015.5	2891.2	2740.9	2568.5	2393.7	2229.9	2077.2	1951.7	1840.8
30°	3336.9	3276.6	3147.3	2951.5	2726.2	2504.5	2290.3	2100.6	1920.9	1767.0	1636.4
32.5°	3599.2	3452.6	3219.9	2951.5	2674.4	2408.5	2161.0	1928.3	1722.6	1550.2	1395.1
35°	3836.8	3569.6	3237.2	2903.5	2573.5	2266.9	1980.0	1716.5	1470.2	1284.3	1114.4
37.5°	4052.3	3647.2	3218.7	2809.9	2426.9	2067.4	1731.2	1440.7	1162.4	982.6	837.3
40°	4192.7	3663.2	3142.3	2663.4	2217.6	1797.7	1425.9	1100.8	880.4	716.6	619.4
42.5°	4280.1	3632.4	3019.2	2462.7	1935.6	1459.1	1070.0	789.3	625.5	534.4	497.5
45°	4329.3	3552.4	2837.0	2188.1	1594.6	1109.4	759.7	570.1	481.4	449.4	437.1
47.5°	4326.9	3423.1	2609.2	1870.4	1217.8	773.3	538.1	444.5	419.9	410.0	407.6
50°	4301.0	3264.2	2342.0	1525.6	879.2	539.3	426.0	398.9	392.8	386.6	384.2
52.5°	4265.3	3067.2	2046.5	1189.5	624.3	431.0	386.6	379.2	374.3	368.2	365.7
55°	4198.8	2824.7	1726.3	895.2	488.8	389.1	373.1	370.6	364.5	355.9	350.9
57.5°	4117.6	2578.4	1419.7	699.4	432.2	379.2	370.6	366.9	358.3	348.5	338.6
60°	4088.0	2375.2	1179.6	589.8	418.7	382.9	376.8	371.9	359.5	344.8	333.7
62.5°	3903.3	2146.2	1007.2	546.7	426.0	398.9	396.5	389.1	370.6	353.4	336.2
65°	3425.6	1815.0	853.3	517.2	440.8	426.0	428.5	417.4	398.9	375.6	344.8
67°	2897.3	1480.1	710.5	488.8	451.9	454.4	463.0	454.4	431.0	397.7	355.9
67.5°	2756.9	1395.1	674.8	480.2	454.4	461.7	471.6	465.4	442.0	403.9	360.8
70°	2048.9	982.6	503.6	434.7	454.4	483.9	506.1	512.2	486.4	433.4	370.6
72.5°	1443.1	634.1	386.6	376.8	412.5	451.9	493.8	514.7	485.1	427.3	357.1
75°	866.9	396.5	314.0	320.1	347.2	387.9	421.1	429.7	392.8	355.9	309.1
77.5°	401.4	263.5	246.3	254.9	280.7	299.2	299.2	282.0	253.7	231.5	221.6
80°	236.4	215.5	214.3	230.3	247.5	234.0	213.0	189.6	174.8	167.5	163.8
82.5°	221.6	230.3	245.0	248.7	235.2	201.9	176.1	152.7	145.3	141.6	137.9
85°	261.0	279.5	254.9	235.2	208.1	169.9	137.9	118.2	114.5	110.8	105.9
87.5°	241.3	230.3	200.7	172.4	142.8	103.4	75.1	67.7	72.6	71.4	69.0
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°	2013.2	2013.2	2013.2	2013.2	2013.2
2.5°	1960.3	1960.3	1955.3	1952.9	1959.0
5°	1925.8	1927.0	1923.3	1922.1	1923.3
7.5°	1918.4	1917.2	1914.7	1912.3	1914.7
10°	1940.6	1939.3	1935.6	1938.1	1934.4
12.5°	2007.1	2014.5	2013.2	2015.7	2020.6
15°	2115.4	2114.2	2110.5	2113.0	2116.7
17.5°	2177.0	2167.1	2158.5	2154.8	2154.8
20°	2162.2	2133.9	2119.1	2110.5	2108.0
22.5°	2074.8	2034.2	2003.4	1996.0	1989.8
25°	1932.0	1881.5	1842.1	1833.4	1817.4
27.5°	1765.7	1698.0	1651.2	1641.4	1632.7
30°	1547.8	1470.2	1416.0	1381.5	1392.6
32.5°	1281.8	1207.9	1145.1	1089.7	1081.1
35°	990.0	908.7	853.3	828.7	812.7
37.5°	738.8	671.1	634.1	610.7	612.0
40°	565.2	529.5	509.8	493.8	495.0
42.5°	471.6	455.6	450.7	443.3	439.6
45°	427.3	422.3	423.6	416.2	413.7
47.5°	402.6	398.9	400.2	395.3	394.0
50°	382.9	380.5	381.7	378.0	376.8
52.5°	363.2	364.5	363.2	360.8	360.8
55°	346.0	344.8	347.2	343.5	343.5
57.5°	332.5	331.2	331.2	330.0	330.0
60°	325.1	320.1	318.9	318.9	320.1
62.5°	321.4	312.8	311.5	311.5	312.8
65°	322.6	309.1	304.1	302.9	301.7
67°	323.8	304.1	294.3	289.4	288.1
67.5°	325.1	301.7	290.6	285.7	283.2
70°	317.7	284.4	268.4	259.8	257.3
72.5°	299.2	263.5	243.8	232.7	230.3
75°	266.0	238.9	221.6	209.3	204.4
77.5°	205.6	193.3	187.2	179.8	177.3
80°	160.1	153.9	151.5	146.5	145.3
82.5°	133.0	126.8	123.1	117.0	113.3
85°	103.4	96.0	93.6	88.7	86.2
87.5°	67.7	64.0	62.8	56.6	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)