

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: P158486

Luminaire Tested: **VST-F08-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158486
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-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20444.1 lumens
Efficiency: N/A
Efficacy: 100.0 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



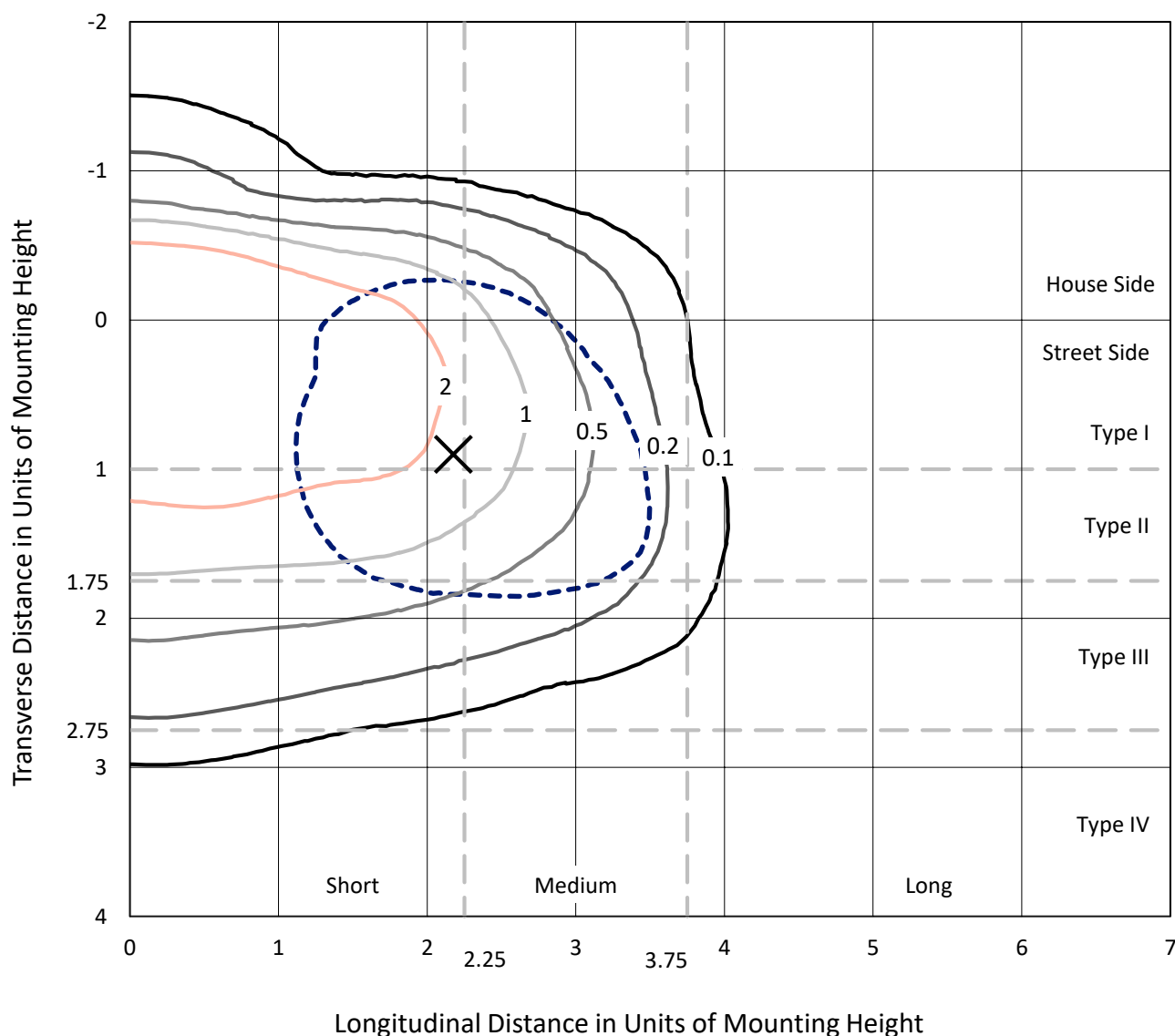
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

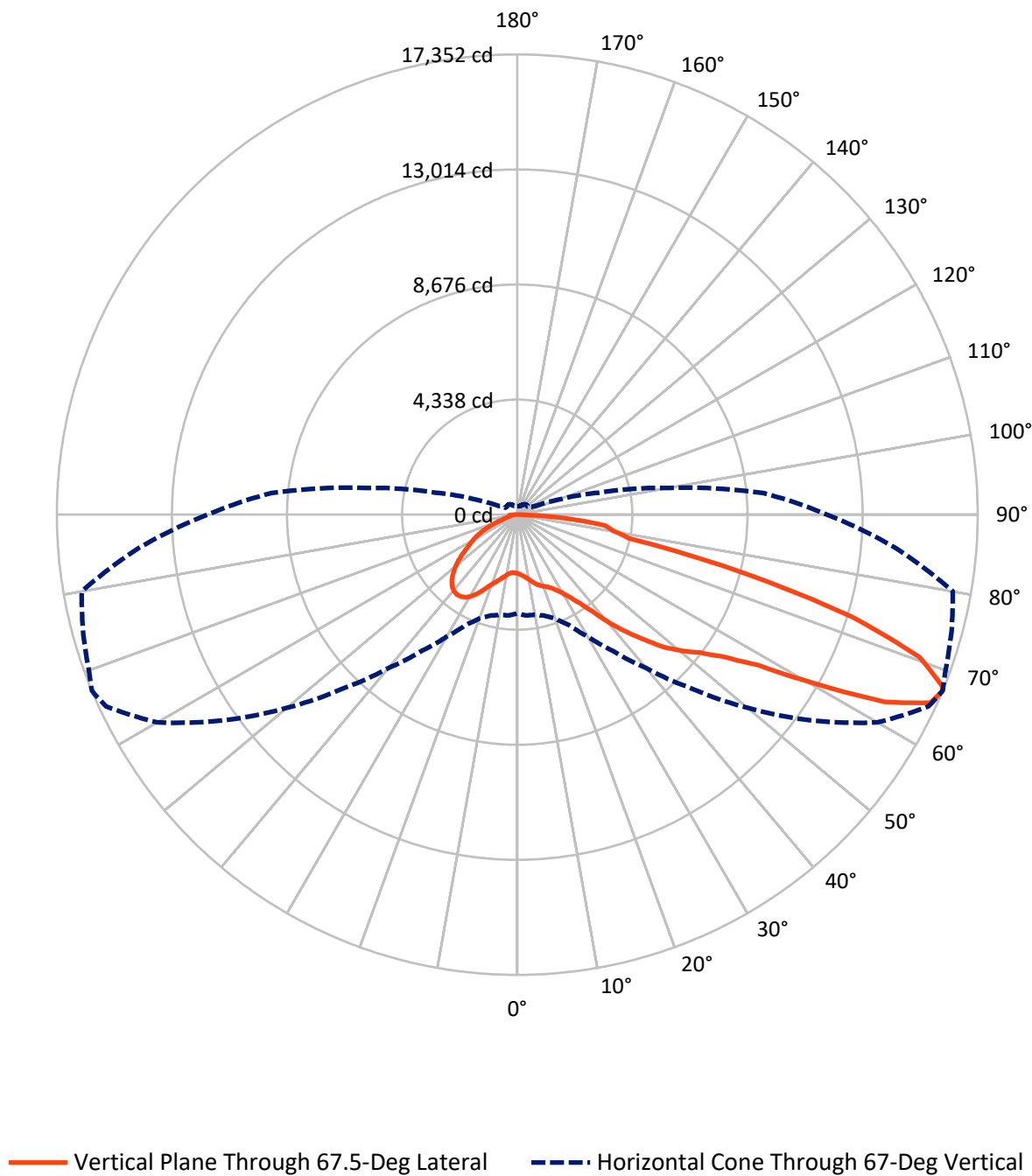


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4904.6	0.0	4904.6
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	15539.5	0.0	15539.5
	% Fixture	76.0	0.0	76.0
Total	Lumens	20444.1	0.0	20444.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.1
10°-20°	750.4	3.7
20°-30°	1339.6	6.6
30°-40°	1963.3	9.6
40°-50°	3033.6	14.8
50°-60°	4417.4	21.6
60°-70°	5754.4	28.1
70°-80°	2575.8	12.6
80°-90°	389.5	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°	20444.1	100.0
0°-180°	20444.1	100.0

Coefficient of Utilization



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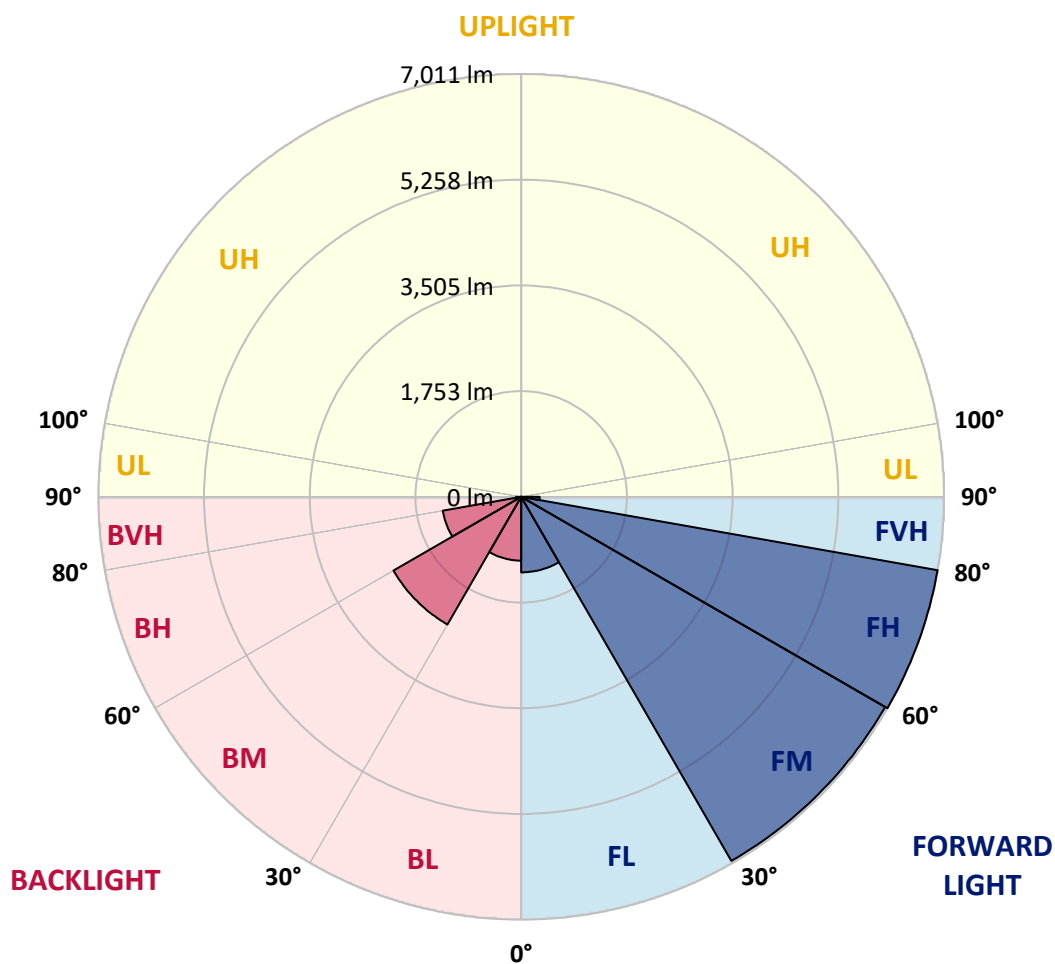
CATALOG NUMBER: VST-F08-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.6	6.1			
FM	(30°-60°)	6970.4	34.1			
FH	(60°-80°)	7010.7	34.3			G3/7500
FVH	(80°-90°)	305.9	1.5			G3/500
BL	(0°-30°)	1057.6	5.2	B3/2500		
BM	(30°-60°)	2443.9	12.0	B2/2500		
BH	(60°-80°)	1319.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	83.6	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°	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2302.7	2308.1	2309.5	2308.1	2309.5	2304.0	2302.7	2294.6	2298.6	2287.8	2285.1
5°	2427.4	2431.4	2434.2	2423.3	2426.0	2420.6	2413.8	2405.7	2394.9	2379.9	2370.5
7.5°	2549.4	2556.1	2554.8	2550.7	2541.2	2535.8	2522.3	2510.1	2491.1	2473.5	2461.3
10°	2713.4	2712.0	2712.0	2689.0	2675.4	2663.2	2638.8	2619.8	2600.9	2575.1	2561.6
12.5°	2903.1	2893.6	2889.5	2873.3	2844.8	2823.1	2787.9	2751.3	2717.4	2690.3	2668.6
15°	3086.1	3086.1	3075.2	3049.5	3022.4	2993.9	2943.8	2890.9	2835.3	2792.0	2770.3
17.5°	3252.8	3237.9	3228.4	3194.5	3166.0	3119.9	3064.4	3007.5	2938.3	2877.3	2835.3
20°	3374.7	3362.6	3342.2	3300.2	3251.4	3197.2	3132.1	3065.7	2991.2	2924.8	2877.3
22.5°	3445.2	3430.3	3399.1	3343.6	3277.2	3201.3	3125.4	3063.0	2995.3	2945.1	2905.8
25°	3481.8	3466.9	3424.9	3351.7	3262.3	3162.0	3075.2	3014.2	2974.9	2962.7	2957.3
27.5°	3480.5	3468.3	3423.5	3339.5	3224.3	3109.1	3015.6	2964.1	2960.0	3007.5	3042.7
30°	3445.2	3437.1	3396.4	3312.4	3191.8	3071.2	2984.4	2957.3	2999.3	3099.6	3186.4
32.5°	3410.0	3405.9	3377.5	3301.6	3198.6	3096.9	3037.3	3040.0	3126.7	3281.2	3420.8
35°	3414.1	3419.5	3415.4	3374.7	3309.7	3256.8	3228.4	3288.0	3423.5	3610.6	3797.6
37.5°	3449.3	3469.6	3495.4	3499.4	3500.8	3492.7	3552.3	3678.3	3876.2	4120.2	4412.9
40°	3526.5	3549.6	3624.1	3689.2	3773.2	3873.5	3994.1	4169.0	4414.3	4715.2	5074.3
42.5°	3766.4	3799.0	3891.1	4011.8	4166.3	4323.5	4503.7	4742.3	5043.1	5360.3	5737.1
45°	4079.5	4147.3	4248.9	4383.1	4614.9	4835.8	5068.9	5335.9	5655.8	6052.9	6432.4
47.5°	4469.8	4537.6	4685.3	4829.0	5102.8	5377.9	5632.7	5911.9	6258.9	6665.5	7085.6
50°	4811.4	4888.6	5020.1	5213.9	5531.1	5868.5	6150.4	6452.7	6744.1	7172.4	7596.6
52.5°	5079.7	5135.3	5261.4	5438.9	5792.6	6162.6	6519.1	6855.2	7200.8	7629.1	8022.1
55°	5113.6	5165.1	5288.5	5491.8	5850.9	6261.6	6672.2	7070.7	7560.0	8027.6	8548.0
57.5°	4967.3	5009.3	5134.0	5315.6	5665.2	6132.8	6651.9	7162.9	7789.0	8420.6	9056.3
60°	4759.9	4801.9	4899.5	5044.5	5360.3	5864.5	6470.3	7169.6	8001.8	8913.9	9849.1
62.5°	4532.2	4568.8	4647.4	4750.4	5028.2	5493.1	6187.0	7124.9	8175.3	9404.6	10846.6
65°	4148.6	4236.7	4270.6	4376.3	4654.2	5093.3	5799.4	6822.7	8104.8	9622.8	11472.8
67°	3724.4	3813.9	3831.5	3938.6	4160.8	4582.3	5300.7	6262.9	7546.4	9246.0	11334.5
67.5°	3588.9	3664.8	3691.9	3799.0	4009.0	4406.1	5087.9	6061.0	7375.7	9040.0	11167.8
70°	2638.8	2722.8	2752.7	2797.4	2947.8	3278.5	3729.8	4574.2	5880.7	7377.0	9420.8
72.5°	1412.2	1480.0	1508.5	1574.9	1652.1	1832.4	2178.0	2783.8	3609.2	4936.1	6702.1
75°	955.5	982.6	1002.9	1049.0	1129.0	1272.6	1424.4	1637.2	2136.0	2785.2	3813.9
77.5°	544.8	557.0	559.7	567.9	631.6	768.5	1017.8	1378.4	1767.3	2018.1	2439.6
80°	235.8	260.2	279.2	267.0	262.9	291.4	364.6	543.5	1065.3	1691.4	2007.2
82.5°	127.4	138.2	154.5	155.9	164.0	173.5	188.4	223.6	314.4	634.3	1383.8
85°	66.4	69.1	92.2	105.7	112.5	117.9	120.6	134.2	154.5	196.5	344.3
87.5°	9.5	13.6	16.3	21.7	24.4	25.8	29.8	37.9	44.7	54.2	92.2
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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CATALOG NUMBER: VST-F08-LED-E-U-SL3-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2272.9	2270.2	2262.0	2256.6	2251.2	2245.8	2239.0	2233.6	2224.1	2217.3	2209.2
5°	2356.9	2340.6	2329.8	2314.9	2312.2	2294.6	2276.9	2268.8	2252.5	2239.0	2222.7
7.5°	2442.3	2423.3	2405.7	2393.5	2386.7	2362.3	2344.7	2324.4	2305.4	2287.8	2268.8
10°	2542.6	2523.6	2504.6	2496.5	2484.3	2461.3	2446.4	2420.6	2401.6	2379.9	2354.2
12.5°	2646.9	2633.4	2619.8	2609.0	2603.6	2592.7	2571.0	2549.4	2523.6	2501.9	2472.1
15°	2739.1	2729.6	2724.2	2721.5	2721.5	2714.7	2694.4	2674.0	2646.9	2622.5	2590.0
17.5°	2804.2	2800.1	2804.2	2808.2	2813.6	2808.2	2804.2	2781.1	2763.5	2733.7	2701.2
20°	2842.1	2850.2	2870.6	2884.1	2896.3	2905.8	2909.9	2890.9	2867.9	2846.2	2824.5
22.5°	2882.8	2905.8	2941.0	2961.4	2981.7	3015.6	3023.7	3010.2	2992.5	2979.0	2956.0
25°	2950.5	2984.4	3045.4	3077.9	3106.4	3156.5	3163.3	3166.0	3162.0	3151.1	3122.7
27.5°	3056.2	3122.7	3204.0	3246.0	3277.2	3342.2	3368.0	3368.0	3357.1	3369.3	3369.3
30°	3240.6	3328.7	3434.4	3458.8	3507.6	3564.5	3606.5	3611.9	3613.3	3639.0	3677.0
32.5°	3523.8	3607.9	3725.8	3752.9	3794.9	3849.1	3896.5	3891.1	3903.3	3958.9	4009.0
35°	3935.9	4021.2	4098.5	4135.1	4154.1	4202.9	4220.5	4250.3	4286.9	4356.0	4349.2
37.5°	4545.7	4621.6	4632.5	4655.5	4632.5	4642.0	4655.5	4690.8	4788.3	4850.7	4750.4
40°	5280.3	5406.4	5394.2	5367.1	5315.6	5246.4	5270.8	5325.1	5430.8	5376.6	5106.8
42.5°	5972.9	6103.0	6078.6	6047.4	5933.6	5907.8	5905.1	5949.9	6006.8	5852.3	5386.0
45°	6654.6	6787.4	6745.4	6727.8	6651.9	6596.3	6642.4	6645.1	6630.2	6299.5	5630.0
47.5°	7358.0	7480.0	7452.9	7467.8	7389.2	7352.6	7356.7	7337.7	7198.1	6679.0	5819.7
50°	7925.9	8089.9	8106.2	8072.3	8030.3	7974.7	8117.0	8065.5	7755.1	7047.7	6002.7
52.5°	8367.8	8588.7	8672.7	8651.0	8617.1	8623.9	8890.9	8949.2	8435.5	7512.5	6204.7
55°	8890.9	9239.2	9376.1	9457.4	9422.2	9557.7	10169.0	10198.8	9381.5	8119.7	6467.6
57.5°	9645.8	10144.6	10576.9	10692.1	10803.3	11243.7	12235.8	11933.6	10609.5	9038.6	6801.0
60°	10793.8	11886.2	12588.2	12956.9	13217.1	13832.4	14775.7	14010.0	12139.6	10132.4	7219.8
62.5°	12401.2	13997.8	15171.5	15541.5	15648.5	16002.3	16685.4	15220.3	12973.1	10623.0	7256.4
65°	13597.9	15513.0	16918.5	17108.2	16980.8	16987.6	17166.5	15156.6	12662.8	10194.7	6627.5
67°	13519.3	15663.4	17102.8	17352.2	17176.0	16944.2	16665.0	14293.2	11665.2	9297.5	5803.5
67.5°	13398.7	15518.4	17022.8	17285.8	17124.5	16860.2	16452.2	13958.5	11354.9	9018.3	5635.4
70°	11582.6	13687.4	15713.6	16083.6	16151.4	15910.1	14764.9	11769.6	9218.9	7336.4	4376.3
72.5°	9015.6	10890.0	12894.5	13215.7	13476.0	12780.7	10746.3	8129.2	6719.7	5287.1	3168.7
75°	5952.6	7859.5	8870.6	8918.0	8586.0	7298.4	5250.5	4071.4	3747.5	3107.8	1961.1
77.5°	3185.0	4621.6	4650.1	4305.9	4148.6	3092.8	1255.0	692.6	771.2	875.5	780.7
80°	2375.9	2943.8	3411.3	3667.5	3743.4	2652.4	649.2	367.3	321.2	292.7	288.7
82.5°	2142.8	2843.5	3187.7	3327.3	3292.1	2182.1	364.6	246.7	204.7	222.3	253.4
85°	840.3	1518.0	1996.4	1932.7	1623.7	813.2	199.2	132.8	132.8	192.5	249.4
87.5°	172.1	311.7	422.9	403.9	363.2	157.2	97.6	80.0	81.3	155.9	235.8
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°	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2201.0	2192.9	2187.5	2182.1	2176.6	2173.9	2169.9	2169.9	2161.7	2159.0	2156.3
5°	2210.5	2197.0	2187.5	2175.3	2165.8	2157.7	2146.8	2144.1	2134.6	2127.9	2125.1
7.5°	2251.2	2230.9	2210.5	2195.6	2182.1	2164.4	2152.2	2141.4	2131.9	2125.1	2117.0
10°	2328.4	2306.8	2278.3	2251.2	2233.6	2206.5	2187.5	2168.5	2157.7	2149.5	2138.7
12.5°	2442.3	2411.1	2377.2	2344.7	2314.9	2279.6	2260.7	2237.6	2224.1	2217.3	2209.2
15°	2558.8	2525.0	2482.9	2451.8	2417.9	2390.8	2373.2	2352.8	2342.0	2333.9	2328.4
17.5°	2678.1	2638.8	2609.0	2577.8	2561.6	2541.2	2518.2	2492.4	2461.3	2442.3	2416.5
20°	2800.1	2770.3	2752.7	2735.0	2716.1	2687.6	2641.5	2588.7	2530.4	2474.8	2422.0
22.5°	2942.4	2924.8	2922.1	2905.8	2866.5	2798.7	2713.4	2614.4	2515.5	2423.3	2351.5
25°	3143.0	3143.0	3129.4	3063.0	2970.9	2848.9	2705.2	2562.9	2431.4	2305.4	2210.5
27.5°	3395.1	3385.6	3319.2	3182.3	3016.9	2827.2	2634.7	2454.5	2286.4	2148.2	2026.2
30°	3672.9	3606.5	3464.2	3248.7	3000.7	2756.7	2520.9	2312.2	2114.3	1944.9	1801.2
32.5°	3961.6	3800.3	3544.2	3248.7	2943.8	2651.0	2378.6	2122.4	1896.1	1706.3	1535.6
35°	4223.2	3929.1	3563.1	3195.8	2832.6	2495.1	2179.4	1889.3	1618.3	1413.6	1226.6
37.5°	4460.4	4014.5	3542.8	3092.8	2671.3	2275.6	1905.6	1585.7	1279.4	1081.5	921.6
40°	4614.9	4032.1	3458.8	2931.6	2440.9	1978.8	1569.5	1211.7	969.1	788.8	681.7
42.5°	4711.1	3998.2	3323.2	2710.6	2130.6	1606.1	1177.8	868.8	688.5	588.2	547.5
45°	4765.3	3910.1	3122.7	2408.4	1755.1	1221.1	836.2	627.5	529.9	494.7	481.1
47.5°	4762.6	3767.8	2871.9	2058.7	1340.4	851.1	592.3	489.3	462.2	451.3	448.6
50°	4734.1	3593.0	2577.8	1679.2	967.7	593.6	468.9	439.1	432.3	425.6	422.9
52.5°	4694.8	3376.1	2252.5	1309.2	687.1	474.4	425.6	417.4	412.0	405.2	402.5
55°	4621.6	3109.1	1900.2	985.3	538.1	428.3	410.7	408.0	401.2	391.7	386.3
57.5°	4532.2	2838.0	1562.7	769.8	475.7	417.4	408.0	403.9	394.4	383.6	372.7
60°	4499.7	2614.4	1298.4	649.2	460.8	421.5	414.7	409.3	395.8	379.5	367.3
62.5°	4296.4	2362.3	1108.7	601.8	468.9	439.1	436.4	428.3	408.0	389.0	370.0
65°	3770.5	1997.7	939.2	569.2	485.2	468.9	471.7	459.5	439.1	413.4	379.5
67°	3189.1	1629.1	782.0	538.1	497.4	500.1	509.6	500.1	474.4	437.8	391.7
67.5°	3034.6	1535.6	742.7	528.6	500.1	508.2	519.1	512.3	486.6	444.5	397.1
70°	2255.3	1081.5	554.3	478.4	500.1	532.6	557.0	563.8	535.4	477.1	408.0
72.5°	1588.4	698.0	425.6	414.7	454.0	497.4	543.5	566.5	534.0	470.3	393.0
75°	954.1	436.4	345.6	352.4	382.2	426.9	463.5	473.0	432.3	391.7	340.2
77.5°	441.8	290.0	271.1	280.6	309.0	329.3	329.3	310.4	279.2	254.8	244.0
80°	260.2	237.2	235.8	253.4	272.4	257.5	234.5	208.7	192.5	184.3	180.3
82.5°	244.0	253.4	269.7	273.8	258.9	222.3	193.8	168.1	159.9	155.9	151.8
85°	287.3	307.7	280.6	258.9	229.0	187.0	151.8	130.1	126.0	122.0	116.6
87.5°	265.6	253.4	220.9	189.7	157.2	113.8	82.7	74.5	80.0	78.6	75.9
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°	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2157.7	2157.7	2152.2	2149.5	2156.3
5°	2119.7	2121.1	2117.0	2115.7	2117.0
7.5°	2111.6	2110.2	2107.5	2104.8	2107.5
10°	2136.0	2134.6	2130.6	2133.3	2129.2
12.5°	2209.2	2217.3	2215.9	2218.7	2224.1
15°	2328.4	2327.1	2323.0	2325.7	2329.8
17.5°	2396.2	2385.4	2375.9	2371.8	2371.8
20°	2379.9	2348.8	2332.5	2323.0	2320.3
22.5°	2283.7	2239.0	2205.1	2197.0	2190.2
25°	2126.5	2070.9	2027.6	2018.1	2000.5
27.5°	1943.5	1869.0	1817.5	1806.6	1797.2
30°	1703.6	1618.3	1558.6	1520.7	1532.9
32.5°	1410.9	1329.6	1260.4	1199.5	1190.0
35°	1089.7	1000.2	939.2	912.1	894.5
37.5°	813.2	738.6	698.0	672.2	673.6
40°	622.1	582.8	561.1	543.5	544.8
42.5°	519.1	501.5	496.0	487.9	483.8
45°	470.3	464.9	466.2	458.1	455.4
47.5°	443.2	439.1	440.5	435.1	433.7
50°	421.5	418.8	420.1	416.1	414.7
52.5°	399.8	401.2	399.8	397.1	397.1
55°	380.8	379.5	382.2	378.1	378.1
57.5°	365.9	364.6	364.6	363.2	363.2
60°	357.8	352.4	351.0	351.0	352.4
62.5°	353.7	344.3	342.9	342.9	344.3
65°	355.1	340.2	334.8	333.4	332.1
67°	356.4	334.8	323.9	318.5	317.1
67.5°	357.8	332.1	319.9	314.4	311.7
70°	349.7	313.1	295.5	286.0	283.3
72.5°	329.3	290.0	268.4	256.2	253.4
75°	292.7	262.9	244.0	230.4	225.0
77.5°	226.3	212.8	206.0	197.9	195.2
80°	176.2	169.4	166.7	161.3	159.9
82.5°	146.4	139.6	135.5	128.8	124.7
85°	113.8	105.7	103.0	97.6	94.9
87.5°	74.5	70.5	69.1	62.3	59.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)