

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: P159804

Luminaire Tested: **VST-F08-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159804
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17953.2 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - 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



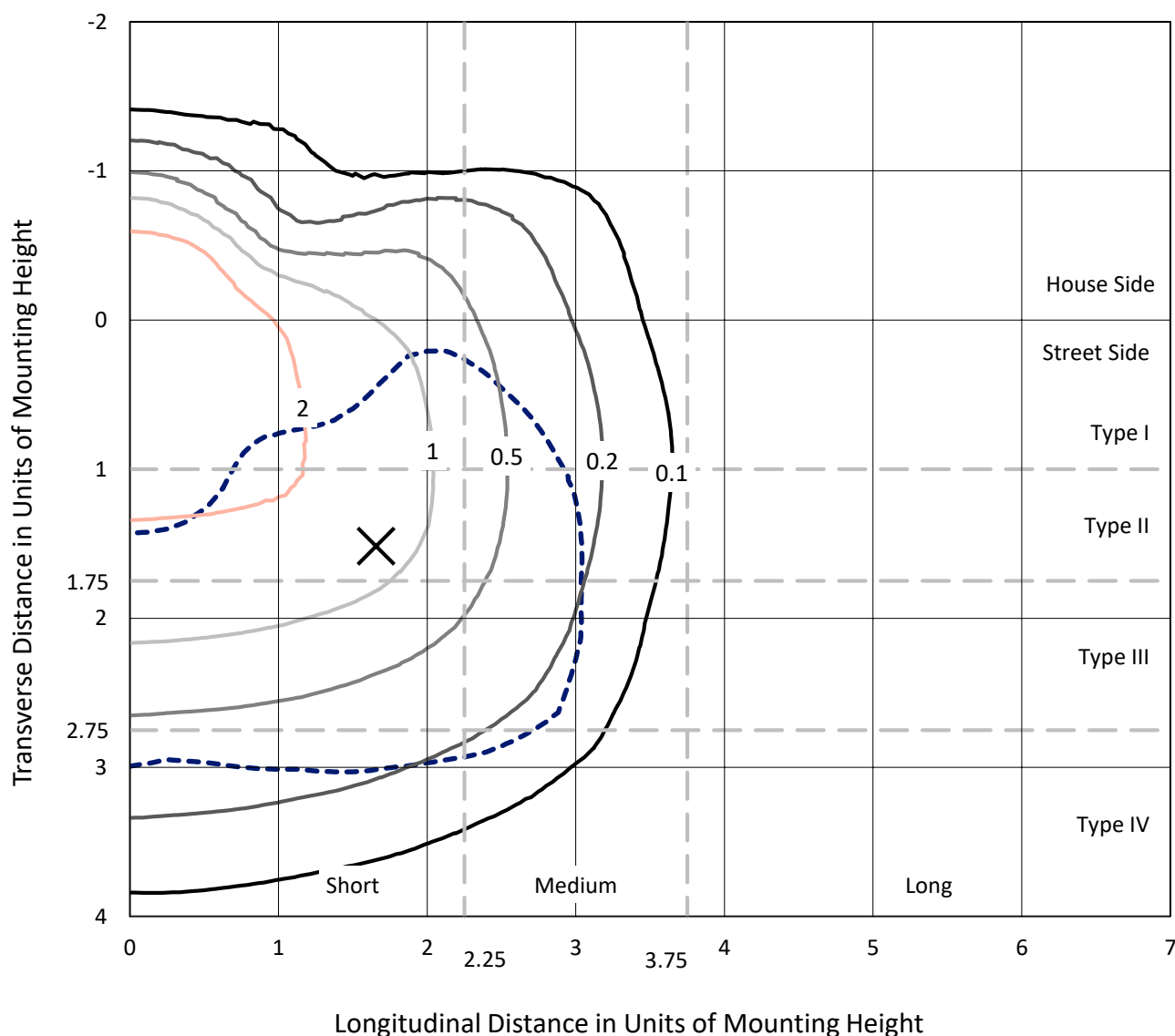
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

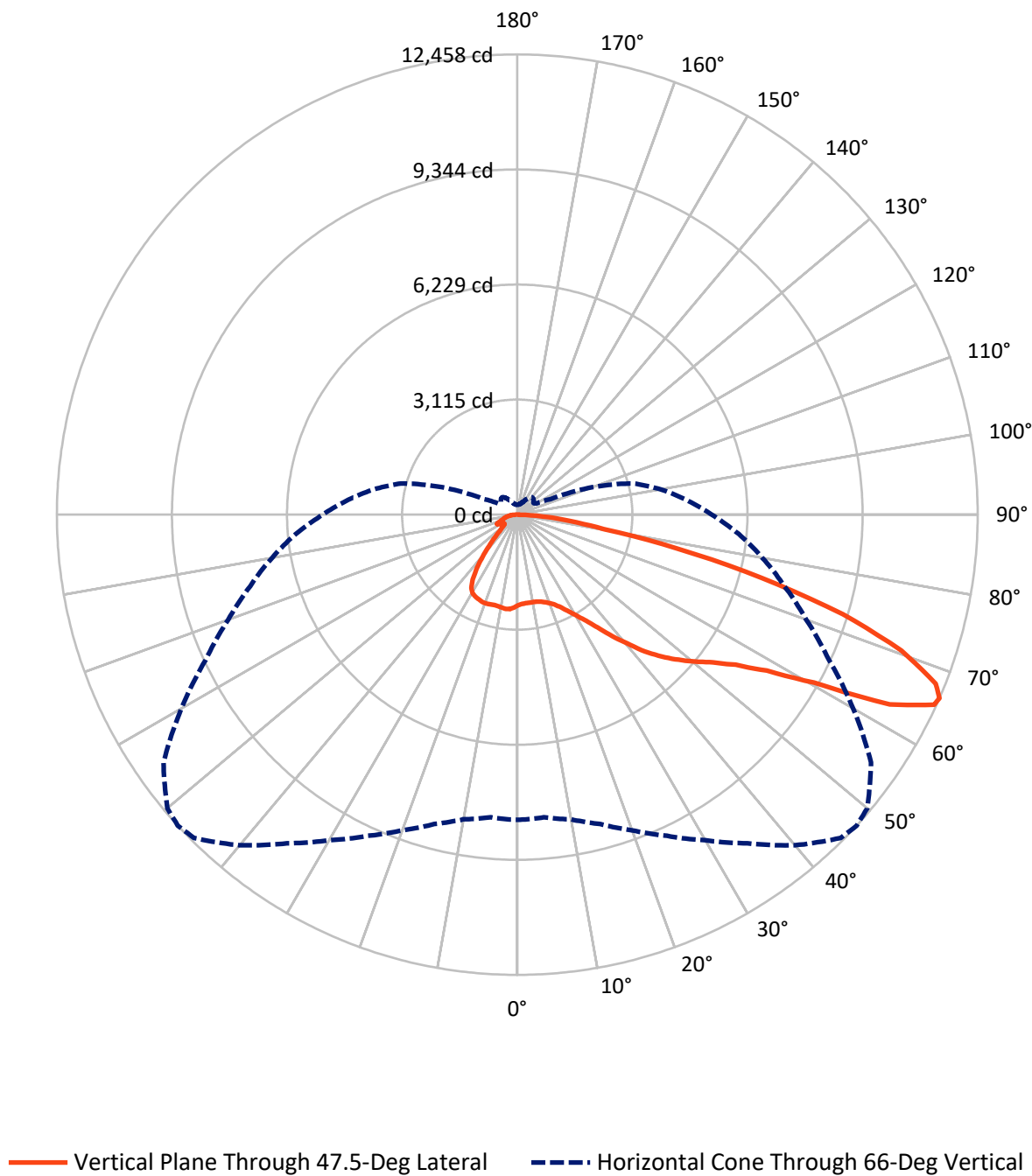


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3717.1	0.0	3717.1
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	14236.1	0.0	14236.1
	% Fixture	79.3	0.0	79.3
Total	Lumens	17953.2	0.0	17953.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.3
10°-20°	709.9	4.0
20°-30°	1211.3	6.7
30°-40°	1828.3	10.2
40°-50°	2376.3	13.2
50°-60°	3260.1	18.2
60°-70°	5015.1	27.9
70°-80°	2899.0	16.1
80°-90°	416.5	2.3
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°	17953.2	100.0
0°-180°	17953.2	100.0

Coefficient of Utilization



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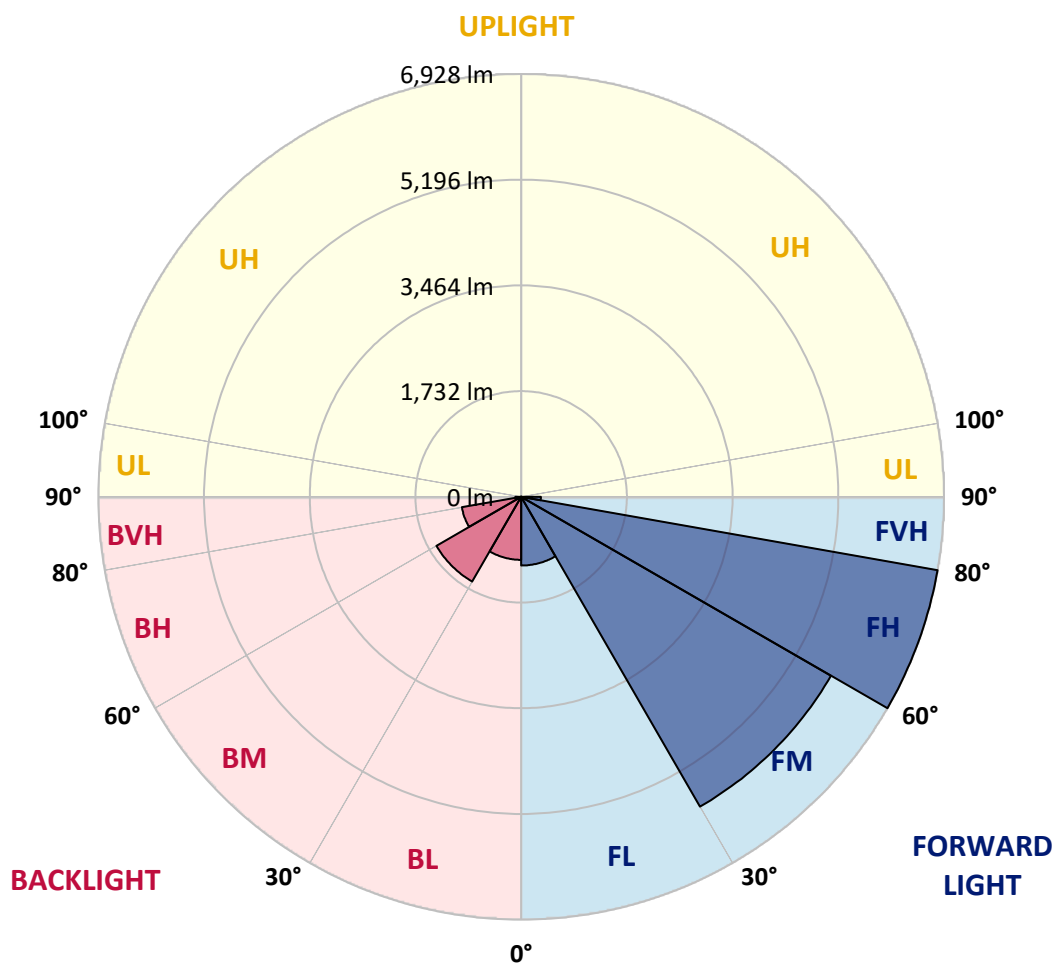
CATALOG NUMBER: VST-F08-LED-E-U-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.3	6.3			
FM	(30°-60°)	5861.0	32.6			
FH	(60°-80°)	6927.6	38.6			G3/7500
FVH	(80°-90°)	322.3	1.8			G3/500
BL	(0°-30°)	1032.7	5.8	B3/2500		
BM	(30°-60°)	1603.7	8.9	B2/2500		
BH	(60°-80°)	986.6	5.5	B2/1000		G2/1000
BVH	(80°-90°)	94.2	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°	45°	47.5°
0°	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2
2.5°	2393.5	2394.7	2395.9	2395.9	2399.5	2399.5	2405.5	2409.2	2410.4	2417.6	2422.4
5°	2348.8	2347.6	2348.8	2351.3	2357.3	2362.1	2374.2	2382.6	2389.9	2401.9	2408.0
7.5°	2329.5	2332.0	2334.4	2335.6	2340.4	2352.5	2363.3	2371.8	2386.2	2400.7	2406.7
10°	2354.9	2358.5	2354.9	2357.3	2357.3	2368.1	2373.0	2379.0	2389.9	2403.1	2406.7
12.5°	2414.0	2421.2	2414.0	2408.0	2403.1	2412.8	2410.4	2405.5	2411.6	2415.2	2415.2
15°	2511.7	2511.7	2506.9	2498.4	2486.4	2487.6	2476.7	2465.9	2461.0	2452.6	2446.6
17.5°	2607.0	2604.6	2593.7	2582.9	2574.4	2570.8	2555.1	2540.7	2523.8	2510.5	2496.0
20°	2699.9	2709.6	2696.3	2680.6	2667.3	2658.9	2646.8	2617.9	2597.4	2575.6	2561.2
22.5°	2860.3	2851.9	2837.4	2814.5	2801.2	2786.8	2761.4	2730.1	2698.7	2672.2	2654.1
25°	3025.6	3017.2	2996.7	2979.8	2960.5	2948.4	2920.7	2882.1	2851.9	2810.9	2786.8
27.5°	3203.0	3195.7	3171.6	3158.3	3145.1	3130.6	3106.5	3066.6	3038.9	2991.8	2966.5
30°	3403.2	3402.0	3369.4	3367.0	3347.7	3332.0	3315.2	3281.4	3253.6	3206.6	3176.4
32.5°	3616.8	3611.9	3589.0	3581.8	3595.0	3584.2	3560.1	3525.1	3488.9	3461.1	3427.4
35°	3920.8	3912.3	3899.1	3905.1	3913.5	3943.7	3906.3	3876.1	3832.7	3796.5	3749.5
37.5°	4142.7	4130.7	4146.4	4180.1	4228.4	4251.3	4283.9	4285.1	4264.6	4216.3	4175.3
40°	4346.6	4341.8	4378.0	4425.0	4514.3	4579.5	4641.0	4671.1	4678.4	4647.0	4585.5
42.5°	4519.1	4533.6	4581.9	4654.3	4779.7	4878.6	4993.2	5064.4	5109.1	5092.2	5064.4
45°	4724.2	4731.5	4790.6	4882.3	5001.7	5165.8	5316.6	5437.2	5515.6	5514.4	5483.0
47.5°	4981.2	4982.4	5033.1	5140.4	5268.3	5434.8	5625.4	5785.8	5889.6	5894.4	5870.3
50°	5286.4	5284.0	5339.5	5440.8	5577.1	5737.6	5940.3	6140.5	6285.3	6285.3	6250.3
52.5°	5679.7	5674.9	5705.0	5794.3	5925.8	6094.7	6296.1	6527.8	6684.6	6718.4	6642.4
55°	6204.5	6211.7	6218.9	6297.4	6409.5	6543.5	6775.1	6988.6	7198.5	7217.8	7173.2
57.5°	6811.3	6787.1	6839.0	6966.9	7094.8	7262.5	7426.5	7678.7	7927.2	7969.4	7963.4
60°	7759.5	7728.1	7781.2	7944.1	8085.2	8349.4	8630.5	8956.2	9250.6	9337.5	9232.5
62.5°	8631.7	8670.3	8742.7	8932.1	9137.2	9489.5	9911.7	10470.3	11028.8	11332.8	11311.1
65°	8553.3	8517.1	8655.8	8914.0	9285.6	9734.4	10259.1	10932.3	11737.0	12347.4	12401.7
66°	8262.6	8225.2	8374.8	8670.3	9095.0	9594.4	10177.1	10862.3	11685.1	12375.1	12458.4
67.5°	7782.4	7745.0	7913.9	8182.9	8620.9	9249.4	9879.1	10628.3	11483.6	12144.7	12212.3
70°	6855.9	6805.2	6936.7	7240.8	7595.4	8203.4	8803.0	9596.8	10475.1	11003.5	11028.8
72.5°	5807.6	5689.3	5829.3	6063.3	6316.7	6819.7	7342.1	7885.0	8584.7	9073.3	9213.2
75°	4213.9	4275.4	4316.5	4470.9	4638.6	5054.8	5361.2	5816.0	6357.7	6711.1	6823.3
77.5°	2235.4	2328.3	2386.2	2540.7	2818.1	3135.4	3467.2	3748.3	4104.1	4302.0	4439.5
80°	1254.6	1319.8	1413.9	1535.7	1670.8	1914.5	2111.2	2255.9	2306.6	2341.6	2373.0
82.5°	690.1	855.3	995.3	1079.7	1159.3	1257.1	1374.1	1494.7	1533.3	1475.4	1445.3
85°	107.4	158.0	481.3	587.5	639.4	714.2	798.6	887.9	889.1	764.9	834.8
87.5°	30.2	33.8	68.8	103.7	101.3	82.0	101.3	184.6	108.6	54.3	62.7
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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CATALOG NUMBER: VST-F08-LED-E-U-T4-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2
2.5°	2424.8	2427.3	2433.3	2439.3	2445.4	2451.4	2455.0	2461.0	2465.9	2473.1	2481.5
5°	2415.2	2421.2	2432.1	2445.4	2457.4	2468.3	2476.7	2488.8	2499.6	2509.3	2523.8
7.5°	2415.2	2427.3	2445.4	2459.8	2470.7	2484.0	2497.2	2509.3	2521.4	2531.0	2540.7
10°	2416.4	2428.5	2446.6	2463.4	2475.5	2490.0	2500.8	2511.7	2525.0	2531.0	2543.1
12.5°	2421.2	2426.0	2439.3	2456.2	2470.7	2485.2	2496.0	2506.9	2521.4	2523.8	2532.2
15°	2445.4	2438.1	2441.7	2453.8	2469.5	2481.5	2493.6	2502.1	2511.7	2509.3	2516.5
17.5°	2490.0	2471.9	2464.7	2465.9	2473.1	2481.5	2486.4	2487.6	2488.8	2477.9	2479.1
20°	2550.3	2525.0	2508.1	2499.6	2490.0	2481.5	2468.3	2452.6	2438.1	2416.4	2414.0
22.5°	2640.8	2603.4	2585.3	2562.4	2533.4	2497.2	2464.7	2426.0	2394.7	2362.1	2350.0
25°	2772.3	2733.7	2714.4	2678.2	2626.3	2574.4	2527.4	2475.5	2429.7	2391.1	2373.0
27.5°	2948.4	2909.8	2889.3	2851.9	2788.0	2736.1	2670.9	2615.5	2560.0	2503.3	2480.3
30°	3161.9	3128.2	3105.2	3075.1	3019.6	2962.9	2886.9	2801.2	2713.2	2622.7	2578.1
32.5°	3414.1	3376.7	3359.8	3324.8	3266.9	3207.8	3123.3	3013.6	2866.4	2724.0	2634.8
35°	3729.0	3686.7	3667.4	3621.6	3554.0	3467.2	3376.7	3229.5	3030.5	2832.6	2686.6
37.5°	4150.0	4055.9	3991.9	3887.0	3778.4	3656.6	3527.5	3376.7	3141.4	2896.5	2693.9
40°	4522.8	4427.4	4304.4	4153.6	3984.7	3817.0	3669.8	3498.5	3242.8	2942.4	2670.9
42.5°	4986.0	4817.1	4620.5	4416.6	4192.2	3985.9	3811.0	3609.5	3311.5	2954.4	2607.0
45°	5409.5	5208.0	4945.0	4673.6	4394.9	4135.5	3938.9	3714.5	3370.7	2954.4	2529.8
47.5°	5795.5	5554.2	5239.3	4901.6	4577.0	4293.5	4070.4	3821.8	3453.9	2991.8	2506.9
50°	6152.6	5875.1	5516.8	5124.7	4760.4	4457.6	4217.5	3959.4	3580.6	3088.4	2562.4
52.5°	6529.0	6234.6	5797.9	5381.7	4980.0	4655.5	4399.7	4129.5	3744.6	3240.4	2660.1
55°	7022.4	6677.4	6181.5	5723.1	5281.6	4923.3	4632.5	4333.4	3924.4	3411.7	2779.5
57.5°	7800.5	7299.9	6804.0	6208.1	5791.9	5320.2	5001.7	4657.9	4216.3	3634.9	2959.3
60°	9162.5	8547.3	7951.3	7266.1	6752.2	6258.7	5777.4	5328.6	4796.6	4139.1	3353.8
62.5°	11107.2	10482.3	9546.2	8707.7	7932.0	7278.1	6650.8	6080.2	5397.4	4678.4	3839.9
65°	12269.0	11553.6	10437.7	9310.9	8368.7	7558.0	6840.2	6141.7	5404.6	4703.7	3987.1
66°	12361.9	11685.1	10493.2	9302.5	8324.1	7483.2	6736.5	6013.9	5258.7	4587.9	3938.9
67.5°	12189.4	11606.7	10379.8	9138.4	8138.3	7229.9	6462.6	5705.0	4946.2	4324.9	3778.4
70°	10972.1	10551.1	9499.1	8336.2	7338.5	6537.4	5727.9	4999.3	4280.3	3757.9	3352.6
72.5°	8994.8	8461.6	7725.7	6944.0	6158.6	5448.1	4712.2	4092.1	3488.9	3108.9	2821.7
75°	6607.4	6127.3	5316.6	4829.2	4310.4	3864.1	3368.2	2780.7	2352.5	2161.9	2091.9
77.5°	4188.6	3667.4	2983.4	2445.4	2102.7	1807.2	1424.7	1132.8	907.2	944.6	1045.9
80°	2116.0	1822.9	1364.4	1077.3	931.3	774.5	612.8	464.5	339.0	387.3	437.9
82.5°	1358.4	1134.0	903.6	711.8	600.8	529.6	423.4	307.6	229.2	258.2	316.1
85°	817.9	691.3	551.3	451.2	392.1	326.9	240.1	170.1	168.9	181.0	223.2
87.5°	124.3	177.3	102.5	109.8	115.8	124.3	109.8	92.9	80.8	105.0	132.7
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°	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2	2456.2
2.5°	2490.0	2492.4	2497.2	2503.3	2502.1	2510.5	2515.3	2510.5	2521.4	2521.4	2527.4
5°	2535.8	2539.5	2547.9	2553.9	2556.3	2563.6	2566.0	2564.8	2567.2	2568.4	2570.8
7.5°	2549.1	2558.8	2562.4	2566.0	2567.2	2569.6	2569.6	2567.2	2567.2	2566.0	2568.4
10°	2545.5	2549.1	2551.5	2550.3	2550.3	2547.9	2546.7	2545.5	2545.5	2543.1	2546.7
12.5°	2533.4	2533.4	2533.4	2531.0	2531.0	2529.8	2529.8	2529.8	2532.2	2533.4	2539.5
15°	2509.3	2509.3	2511.7	2510.5	2514.1	2520.1	2527.4	2532.2	2538.2	2539.5	2543.1
17.5°	2471.9	2473.1	2480.3	2496.0	2511.7	2529.8	2543.1	2546.7	2541.9	2529.8	2521.4
20°	2406.7	2422.4	2451.4	2488.8	2523.8	2546.7	2552.7	2538.2	2515.3	2484.0	2467.1
22.5°	2348.8	2380.2	2432.1	2493.6	2537.0	2552.7	2534.6	2500.8	2459.8	2423.6	2398.3
25°	2371.8	2408.0	2462.2	2515.3	2543.1	2534.6	2498.4	2450.2	2406.7	2364.5	2323.5
27.5°	2468.3	2504.5	2543.1	2558.8	2549.1	2517.7	2467.1	2415.2	2357.3	2297.0	2246.3
30°	2560.0	2580.5	2582.9	2567.2	2532.2	2481.5	2422.4	2362.1	2288.5	2216.1	2152.2
32.5°	2588.9	2564.8	2521.4	2476.7	2428.5	2376.6	2307.8	2228.2	2149.8	2067.8	1996.6
35°	2580.5	2482.7	2375.4	2280.1	2222.2	2163.1	2100.3	1994.2	1906.1	1836.1	1790.3
37.5°	2504.5	2325.9	2160.6	2021.9	1931.4	1861.5	1768.6	1680.5	1604.5	1573.1	1535.7
40°	2398.3	2125.7	1896.4	1702.2	1608.1	1518.8	1415.1	1347.5	1325.8	1296.9	1298.1
42.5°	2246.3	1891.6	1596.1	1372.9	1270.3	1172.6	1099.0	1059.2	1060.4	1036.3	1041.1
45°	2085.8	1656.4	1284.8	1062.8	961.5	878.3	837.2	825.2	826.4	827.6	820.3
47.5°	1988.1	1473.0	1030.3	805.9	716.6	669.5	647.8	641.8	643.0	644.2	635.8
50°	1973.7	1377.7	860.2	616.5	558.6	532.0	521.2	515.1	515.1	510.3	503.1
52.5°	2014.7	1353.6	776.9	534.4	478.9	454.8	446.4	441.5	434.3	424.6	411.4
55°	2079.8	1375.3	751.6	506.7	452.4	428.3	417.4	415.0	402.9	384.8	363.1
57.5°	2200.5	1453.7	768.5	513.9	457.2	435.5	428.3	425.9	409.0	381.2	353.5
60°	2546.7	1681.7	852.9	554.9	492.2	474.1	474.1	470.5	447.6	407.8	367.9
62.5°	3024.4	2015.9	967.5	611.6	540.5	538.0	558.6	559.8	518.7	454.8	392.1
65°	3254.8	2172.7	1007.3	623.7	553.7	581.5	622.5	622.5	564.6	476.5	395.7
66°	3256.0	2169.1	995.3	609.2	539.3	575.4	617.7	617.7	557.4	470.5	389.7
67.5°	3172.8	2101.5	955.5	582.7	506.7	540.5	577.9	576.7	522.4	446.4	372.8
70°	2845.9	1859.0	842.1	539.3	468.1	469.3	482.6	474.1	437.9	386.0	339.0
72.5°	2453.8	1555.0	729.9	511.5	437.9	415.0	404.1	396.9	374.0	342.6	313.7
75°	1882.0	1207.6	635.8	486.2	411.4	371.6	357.1	351.1	335.4	317.3	294.4
77.5°	1153.3	827.6	539.3	445.2	381.2	345.0	329.3	317.3	301.6	284.7	269.0
80°	497.0	499.4	431.9	377.6	331.8	289.5	269.0	254.5	246.1	240.1	231.6
82.5°	347.4	358.3	329.3	293.2	253.3	223.2	205.1	201.5	202.7	202.7	200.3
85°	260.6	255.8	230.4	209.9	191.8	172.5	158.0	156.8	161.7	161.7	158.0
87.5°	150.8	152.0	130.3	121.8	126.7	108.6	98.9	100.1	112.2	111.0	108.6
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°	2456.2	2456.2	2456.2	2456.2	2456.2
2.5°	2527.4	2531.0	2529.8	2533.4	2529.8
5°	2574.4	2573.2	2572.0	2576.8	2570.8
7.5°	2567.2	2568.4	2568.4	2568.4	2567.2
10°	2549.1	2553.9	2556.3	2561.2	2560.0
12.5°	2543.1	2550.3	2557.5	2564.8	2566.0
15°	2544.3	2549.1	2552.7	2556.3	2557.5
17.5°	2512.9	2511.7	2508.1	2505.7	2503.3
20°	2449.0	2442.9	2436.9	2427.3	2432.1
22.5°	2369.3	2352.5	2333.2	2317.5	2316.3
25°	2276.5	2245.1	2213.7	2193.2	2186.0
27.5°	2194.4	2157.0	2124.5	2106.4	2101.5
30°	2096.7	2062.9	2034.0	2018.3	2008.6
32.5°	1951.9	1925.4	1889.2	1877.1	1875.9
35°	1750.5	1730.0	1704.6	1699.8	1693.8
37.5°	1522.5	1515.2	1503.2	1488.7	1486.3
40°	1278.8	1283.6	1280.0	1271.5	1258.3
42.5°	1043.5	1052.0	1053.2	1059.2	1065.2
45°	831.2	838.4	838.4	844.5	851.7
47.5°	638.2	633.4	637.0	643.0	646.6
50°	482.6	478.9	472.9	468.1	463.3
52.5°	388.5	381.2	364.3	359.5	354.7
55°	342.6	329.3	317.3	312.5	312.5
57.5°	329.3	312.5	299.2	293.2	290.7
60°	331.8	307.6	290.7	281.1	277.5
62.5°	342.6	308.8	285.9	275.1	271.4
65°	341.4	306.4	284.7	272.6	269.0
66°	335.4	302.8	282.3	271.4	269.0
67.5°	325.7	298.0	279.9	270.2	266.6
70°	306.4	288.3	275.1	266.6	263.0
72.5°	290.7	278.7	266.6	257.0	254.5
75°	276.3	264.2	253.3	248.5	244.9
77.5°	254.5	243.7	237.7	232.8	230.4
80°	225.6	218.4	211.1	206.3	202.7
82.5°	196.6	187.0	179.8	176.1	173.7
85°	160.4	154.4	143.6	136.3	135.1
87.5°	107.4	101.3	97.7	91.7	85.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)