

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: McGRAW-EDISON

Report Number: P159679

Luminaire Tested: **VTS-E07-LED-E1-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159679
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: MCGRAW-EDISON
Catalog Number: VTS-E07-LED-E1-T4-7030
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19029.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

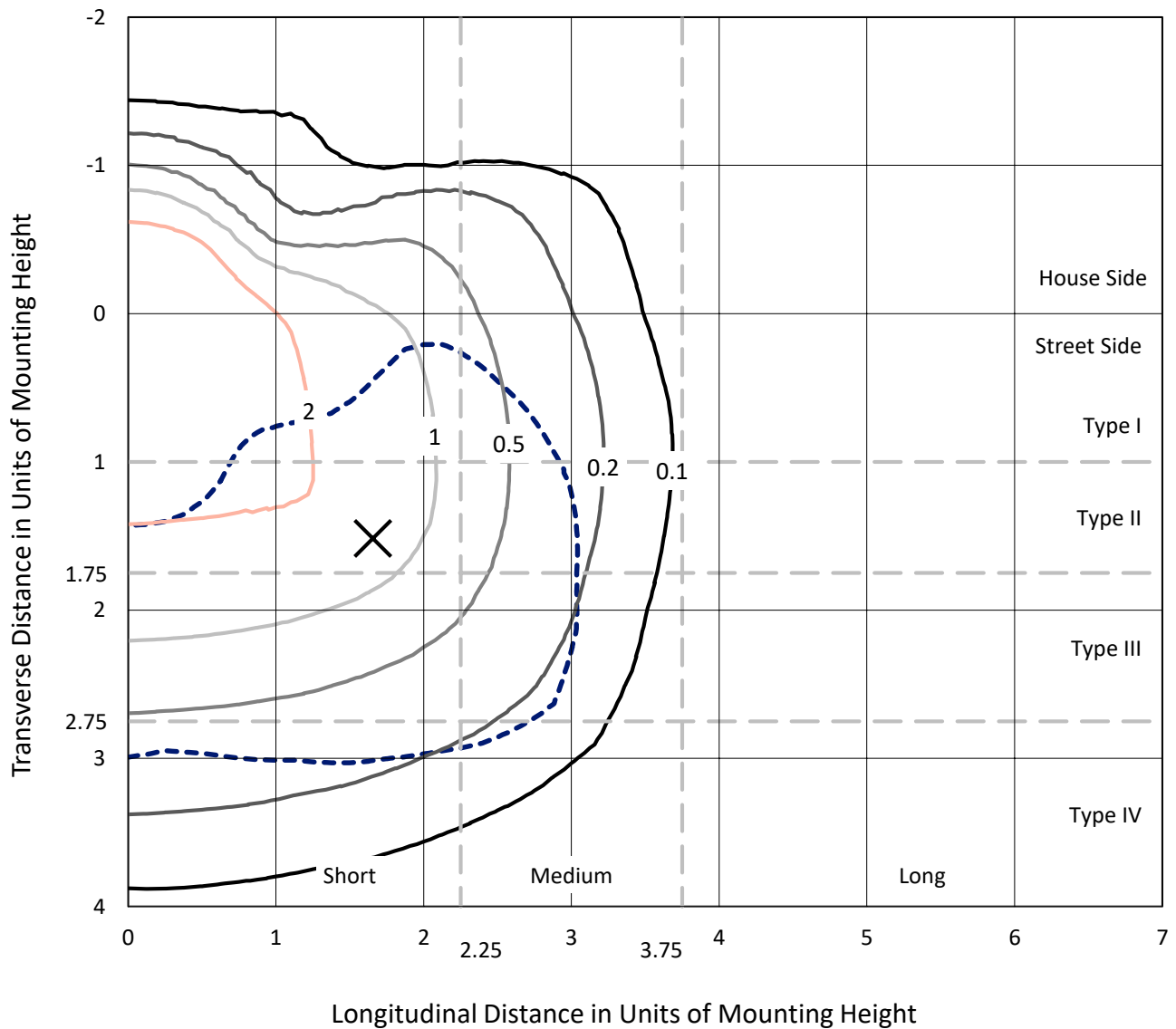
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

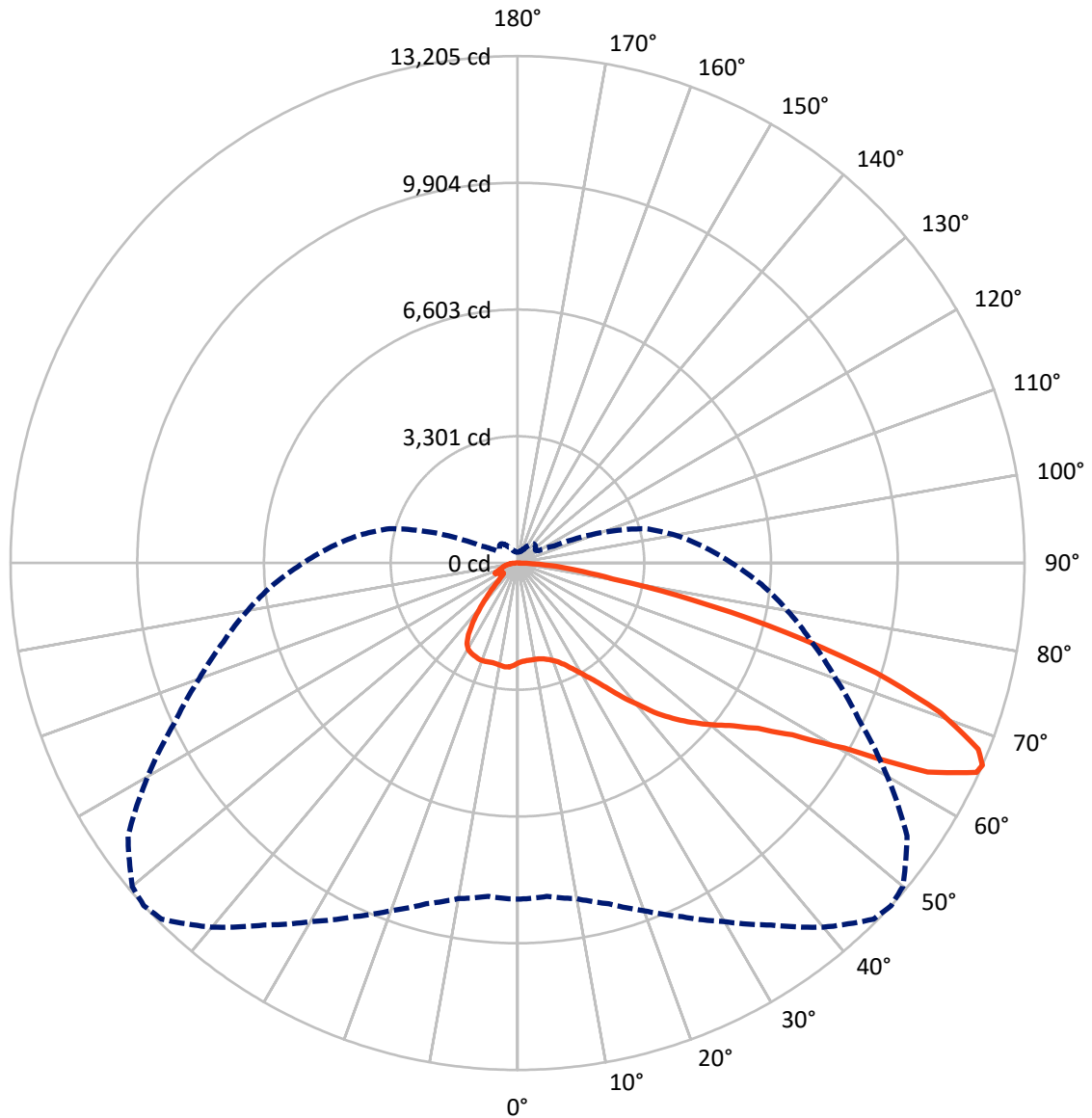


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3939.9	0.0	3939.9
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	15089.3	0.0	15089.3
	% Fixture	79.3	0.0	79.3
Total	Lumens	19029.2	0.0	19029.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	1.3
10°-20°	752.5	4.0
20°-30°	1283.9	6.7
30°-40°	1937.8	10.2
40°-50°	2518.7	13.2
50°-60°	3455.5	18.2
60°-70°	5315.6	27.9
70°-80°	3072.8	16.1
80°-90°	441.4	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°	19029.2	100.0
0°-180°	19029.2	100.0



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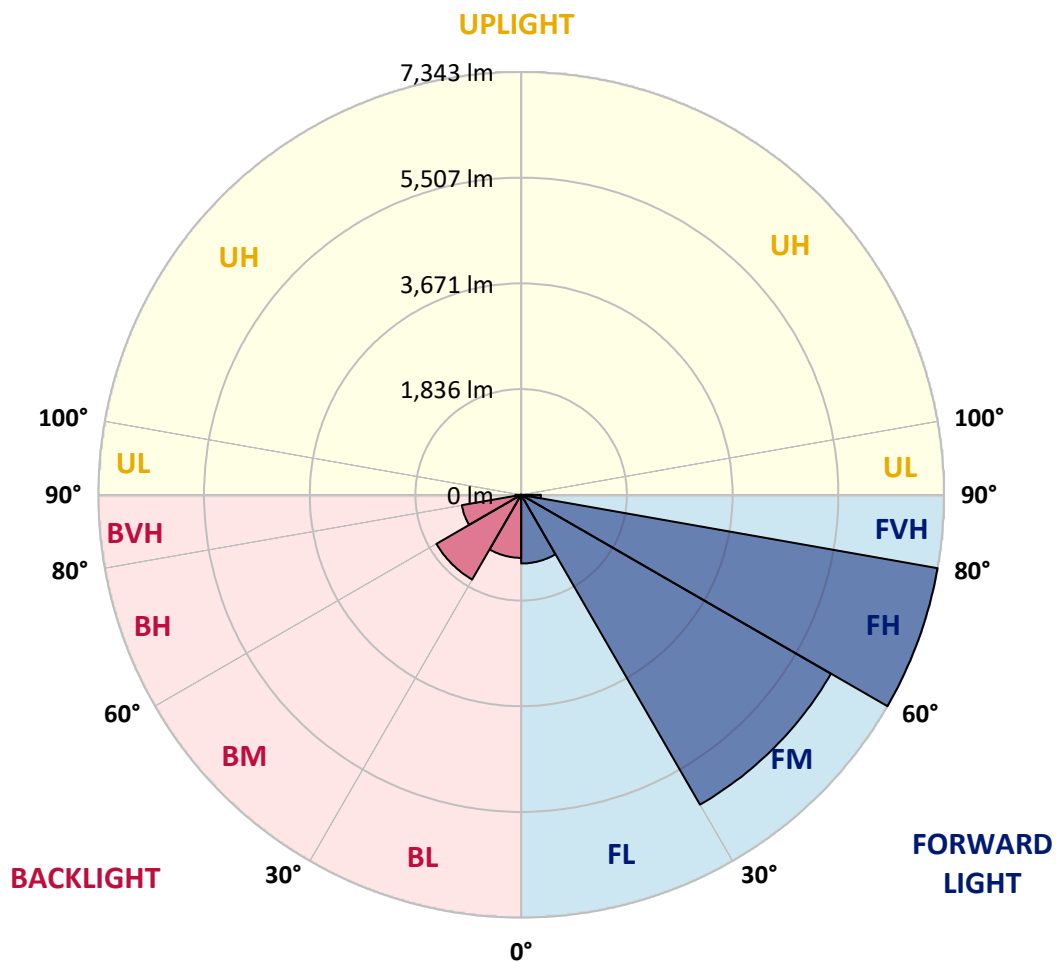
CATALOG NUMBER: VTS-E07-LED-E1-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1192.8	6.3			
FM	(30°-60°)	6212.2	32.6			
FH	(60°-80°)	7342.7	38.6			G3/7500
FVH	(80°-90°)	341.6	1.8			G3/500
BL	(0°-30°)	1094.5	5.8	B3/2500		
BM	(30°-60°)	1699.9	8.9	B2/2500		
BH	(60°-80°)	1045.7	5.5	B3/2500		G3/2500
BVH	(80°-90°)	99.8	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°	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2536.9	2538.2	2539.5	2539.5	2543.3	2543.3	2549.7	2553.5	2554.8	2562.5	2567.6
5°	2489.6	2488.3	2489.6	2492.2	2498.6	2503.7	2516.5	2525.4	2533.1	2545.9	2552.3
7.5°	2469.2	2471.7	2474.3	2475.5	2480.7	2493.4	2505.0	2513.9	2529.2	2544.6	2551.0
10°	2496.0	2499.8	2496.0	2498.6	2498.6	2510.1	2515.2	2521.6	2533.1	2547.2	2551.0
12.5°	2558.7	2566.3	2558.7	2552.3	2547.2	2557.4	2554.8	2549.7	2556.1	2559.9	2559.9
15°	2662.2	2662.2	2657.1	2648.2	2635.4	2636.7	2625.2	2613.6	2608.5	2599.6	2593.2
17.5°	2763.3	2760.7	2749.2	2737.7	2728.7	2724.9	2708.3	2692.9	2675.0	2661.0	2645.6
20°	2861.7	2871.9	2857.9	2841.3	2827.2	2818.2	2805.4	2774.8	2753.0	2730.0	2714.7
22.5°	3031.8	3022.8	3007.5	2983.2	2969.1	2953.8	2926.9	2893.7	2860.4	2832.3	2813.1
25°	3207.0	3198.0	3176.3	3158.4	3137.9	3125.1	3095.7	3054.8	3022.8	2979.3	2953.8
27.5°	3394.9	3387.3	3361.7	3347.6	3333.5	3318.2	3292.6	3250.4	3221.0	3171.2	3144.3
30°	3607.2	3605.9	3571.4	3568.8	3548.4	3531.7	3513.8	3478.0	3448.6	3398.8	3366.8
32.5°	3833.5	3828.4	3804.1	3796.4	3810.5	3799.0	3773.4	3736.3	3698.0	3668.6	3632.8
35°	4155.7	4146.8	4132.7	4139.1	4148.1	4180.0	4140.4	4108.4	4062.4	4024.0	3974.2
37.5°	4391.0	4378.2	4394.9	4430.7	4481.8	4506.1	4540.6	4541.9	4520.2	4469.0	4425.5
40°	4607.1	4602.0	4640.4	4690.2	4784.9	4853.9	4919.1	4951.1	4958.8	4925.5	4860.3
42.5°	4790.0	4805.3	4856.5	4933.2	5066.2	5171.0	5292.5	5367.9	5415.3	5397.4	5367.9
45°	5007.4	5015.0	5077.7	5174.9	5301.5	5475.4	5635.2	5763.1	5846.2	5844.9	5811.6
47.5°	5279.7	5281.0	5334.7	5448.5	5584.0	5760.5	5962.5	6132.6	6242.6	6247.7	6222.1
50°	5603.2	5600.7	5659.5	5766.9	5911.4	6081.5	6296.3	6508.5	6662.0	6662.0	6624.9
52.5°	6020.1	6015.0	6046.9	6141.6	6280.9	6459.9	6673.5	6919.0	7085.2	7121.0	7040.5
55°	6576.3	6584.0	6591.6	6674.8	6793.7	6935.6	7181.1	7407.5	7629.9	7650.4	7603.1
57.5°	7219.5	7193.9	7248.9	7384.4	7520.0	7697.7	7871.6	8138.9	8402.3	8447.0	8440.6
60°	8224.5	8191.3	8247.6	8420.2	8569.8	8849.8	9147.8	9493.0	9805.0	9897.1	9785.8
62.5°	9149.0	9189.9	9266.7	9467.4	9684.8	10058.2	10505.7	11097.8	11689.8	12012.0	11989.0
65°	9065.9	9027.6	9174.6	9448.2	9842.1	10317.8	10874.0	11587.5	12440.4	13087.4	13144.9
66°	8757.8	8718.1	8876.7	9189.9	9640.0	10169.4	10787.0	11513.3	12385.4	13116.8	13205.0
67.5°	8248.8	8209.2	8388.2	8673.4	9137.5	9803.7	10471.2	11265.3	12171.9	12872.6	12944.2
70°	7266.8	7213.1	7352.5	7674.7	8050.6	8695.1	9330.6	10172.0	11102.9	11662.9	11689.8
72.5°	6155.6	6030.3	6178.6	6426.7	6695.2	7228.4	7782.1	8357.5	9099.2	9617.0	9765.4
75°	4466.5	4531.7	4575.2	4738.8	4916.6	5357.7	5682.5	6164.6	6738.7	7113.4	7232.3
77.5°	2369.4	2467.9	2529.2	2692.9	2987.0	3323.3	3675.0	3972.9	4350.1	4559.8	4705.6
80°	1329.8	1398.9	1498.6	1627.8	1771.0	2029.3	2237.7	2391.2	2444.9	2481.9	2515.2
82.5°	731.4	906.6	1054.9	1144.4	1228.8	1332.4	1456.4	1584.3	1625.2	1563.8	1531.9
85°	113.8	167.5	510.2	622.7	677.7	757.0	846.5	941.1	942.4	810.7	884.9
87.5°	32.0	35.8	72.9	110.0	107.4	87.0	107.4	195.6	115.1	57.5	66.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2570.2	2572.7	2579.1	2585.5	2591.9	2598.3	2602.1	2608.5	2613.6	2621.3	2630.3
5°	2559.9	2566.3	2577.8	2591.9	2604.7	2616.2	2625.2	2637.9	2649.4	2659.7	2675.0
7.5°	2559.9	2572.7	2591.9	2607.2	2618.8	2632.8	2646.9	2659.7	2672.5	2682.7	2692.9
10°	2561.2	2574.0	2593.2	2611.1	2623.9	2639.2	2650.7	2662.2	2676.3	2682.7	2695.5
12.5°	2566.3	2571.4	2585.5	2603.4	2618.8	2634.1	2645.6	2657.1	2672.5	2675.0	2684.0
15°	2591.9	2584.2	2588.1	2600.9	2617.5	2630.3	2643.1	2652.0	2662.2	2659.7	2667.3
17.5°	2639.2	2620.0	2612.4	2613.6	2621.3	2630.3	2635.4	2636.7	2637.9	2626.4	2627.7
20°	2703.2	2676.3	2658.4	2649.4	2639.2	2630.3	2616.2	2599.6	2584.2	2561.2	2558.7
22.5°	2799.1	2759.4	2740.2	2715.9	2685.2	2646.9	2612.4	2571.4	2538.2	2503.7	2490.9
25°	2938.4	2897.5	2877.1	2838.7	2783.7	2728.7	2678.9	2623.9	2575.3	2534.4	2515.2
27.5°	3125.1	3084.2	3062.5	3022.8	2955.1	2900.1	2831.0	2772.2	2713.4	2653.3	2629.0
30°	3351.4	3315.6	3291.3	3259.4	3200.6	3140.5	3059.9	2969.1	2875.8	2779.9	2732.6
32.5°	3618.7	3579.1	3561.2	3524.1	3462.7	3400.0	3310.5	3194.2	3038.2	2887.3	2792.7
35°	3952.4	3907.7	3887.2	3838.6	3767.0	3675.0	3579.1	3423.1	3212.1	3002.4	2847.6
37.5°	4398.7	4299.0	4231.2	4119.9	4004.9	3875.7	3738.9	3579.1	3329.7	3070.1	2855.3
40°	4793.8	4692.8	4562.4	4402.5	4223.5	4045.8	3889.8	3708.2	3437.1	3118.7	2831.0
42.5°	5284.8	5105.8	4897.4	4681.3	4443.4	4224.8	4039.4	3825.8	3510.0	3131.5	2763.3
45°	5733.6	5520.1	5241.4	4953.6	4658.3	4383.4	4174.9	3937.1	3572.7	3131.5	2681.4
47.5°	6142.8	5887.1	5553.4	5195.3	4851.4	4550.9	4314.3	4050.9	3660.9	3171.2	2657.1
50°	6521.3	6227.2	5847.5	5431.9	5045.7	4724.8	4470.3	4196.7	3795.2	3273.4	2715.9
52.5°	6920.3	6608.3	6145.4	5704.2	5278.4	4934.5	4663.4	4377.0	3969.1	3434.6	2819.5
55°	7443.3	7077.6	6552.0	6066.1	5598.1	5218.3	4910.2	4593.1	4159.6	3616.1	2946.1
57.5°	8268.0	7737.4	7211.8	6580.1	6139.0	5639.0	5301.5	4937.0	4469.0	3852.7	3136.6
60°	9711.7	9059.5	8427.8	7701.6	7156.8	6633.8	6123.6	5648.0	5084.1	4387.2	3554.8
62.5°	11772.9	11110.5	10118.3	9229.6	8407.4	7714.3	7049.4	6444.6	5720.9	4958.8	4070.1
65°	13004.3	12246.0	11063.2	9868.9	8870.3	8011.0	7250.2	6509.8	5728.5	4985.6	4226.1
66°	13102.7	12385.4	11122.0	9860.0	8823.0	7931.7	7140.2	6374.3	5573.8	4862.9	4174.9
67.5°	12919.9	12302.3	11001.9	9686.1	8626.0	7663.2	6849.9	6046.9	5242.6	4584.1	4004.9
70°	11629.7	11183.4	10068.4	8835.8	7778.3	6929.2	6071.2	5298.9	4536.8	3983.1	3553.5
72.5°	9533.9	8968.7	8188.7	7360.1	6527.7	5774.6	4994.6	4337.3	3698.0	3295.2	2990.9
75°	7003.4	6494.5	5635.2	5118.6	4568.8	4095.6	3570.1	2947.4	2493.4	2291.4	2217.2
77.5°	4439.6	3887.2	3162.2	2591.9	2228.8	1915.5	1510.1	1200.7	961.6	1001.2	1108.6
80°	2242.8	1932.1	1446.2	1141.9	987.1	820.9	649.6	492.3	359.3	410.5	464.2
82.5°	1439.8	1202.0	957.7	754.4	636.8	561.3	448.8	326.1	243.0	273.6	335.0
85°	867.0	732.7	584.4	478.2	415.6	346.5	254.5	180.3	179.0	191.8	236.6
87.5°	131.7	188.0	108.7	116.4	122.8	131.7	116.4	98.5	85.7	111.2	140.7
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°	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2639.2	2641.8	2646.9	2653.3	2652.0	2661.0	2666.1	2661.0	2672.5	2672.5	2678.9
5°	2687.8	2691.6	2700.6	2707.0	2709.5	2717.2	2719.8	2718.5	2721.1	2722.3	2724.9
7.5°	2701.9	2712.1	2715.9	2719.8	2721.1	2723.6	2723.6	2721.1	2721.1	2719.8	2722.3
10°	2698.0	2701.9	2704.4	2703.2	2703.2	2700.6	2699.3	2698.0	2698.0	2695.5	2699.3
12.5°	2685.2	2685.2	2685.2	2682.7	2682.7	2681.4	2681.4	2681.4	2684.0	2685.2	2691.6
15°	2659.7	2659.7	2662.2	2661.0	2664.8	2671.2	2678.9	2684.0	2690.4	2691.6	2695.5
17.5°	2620.0	2621.3	2629.0	2645.6	2662.2	2681.4	2695.5	2699.3	2694.2	2681.4	2672.5
20°	2551.0	2567.6	2598.3	2637.9	2675.0	2699.3	2705.7	2690.4	2666.1	2632.8	2614.9
22.5°	2489.6	2522.9	2577.8	2643.1	2689.1	2705.7	2686.5	2650.7	2607.2	2568.9	2542.0
25°	2513.9	2552.3	2609.8	2666.1	2695.5	2686.5	2648.2	2597.0	2551.0	2506.2	2462.8
27.5°	2616.2	2654.6	2695.5	2712.1	2701.9	2668.6	2614.9	2559.9	2498.6	2434.6	2380.9
30°	2713.4	2735.1	2737.7	2721.1	2684.0	2630.3	2567.6	2503.7	2425.7	2349.0	2281.2
32.5°	2744.1	2718.5	2672.5	2625.2	2574.0	2519.0	2446.1	2361.7	2278.6	2191.7	2116.2
35°	2735.1	2631.5	2517.7	2416.7	2355.3	2292.7	2226.2	2113.7	2020.3	1946.2	1897.6
37.5°	2654.6	2465.3	2290.1	2143.1	2047.2	1973.0	1874.6	1781.2	1700.7	1667.4	1627.8
40°	2542.0	2253.1	2010.1	1804.2	1704.5	1609.9	1499.9	1428.3	1405.3	1374.6	1375.9
42.5°	2380.9	2005.0	1691.7	1455.1	1346.5	1242.9	1164.9	1122.7	1124.0	1098.4	1103.5
45°	2210.9	1755.6	1361.8	1126.5	1019.1	930.9	887.4	874.6	875.9	877.2	869.5
47.5°	2107.3	1561.3	1092.0	854.2	759.5	709.7	686.7	680.3	681.5	682.8	673.9
50°	2091.9	1460.3	911.7	653.4	592.0	563.9	552.4	546.0	546.0	540.9	533.2
52.5°	2135.4	1434.7	823.5	566.5	507.6	482.1	473.1	468.0	460.3	450.1	436.0
55°	2204.5	1457.7	796.6	537.0	479.5	453.9	442.4	439.9	427.1	407.9	384.9
57.5°	2332.3	1540.8	814.5	544.7	484.6	461.6	453.9	451.4	433.5	404.1	374.7
60°	2699.3	1782.5	904.0	588.2	521.7	502.5	502.5	498.7	474.4	432.2	390.0
62.5°	3205.7	2136.7	1025.5	648.3	572.9	570.3	592.0	593.3	549.8	482.1	415.6
65°	3449.9	2302.9	1067.7	661.1	586.9	616.3	659.8	659.8	598.4	505.1	419.4
66°	3451.2	2299.1	1054.9	645.7	571.6	609.9	654.7	654.7	590.8	498.7	413.0
67.5°	3363.0	2227.5	1012.7	617.6	537.0	572.9	612.5	611.2	553.7	473.1	395.1
70°	3016.4	1970.5	892.5	571.6	496.1	497.4	511.5	502.5	464.2	409.2	359.3
72.5°	2600.9	1648.2	773.6	542.2	464.2	439.9	428.4	420.7	396.4	363.1	332.5
75°	1994.8	1280.0	673.9	515.3	436.0	393.8	378.5	372.1	355.5	336.3	312.0
77.5°	1222.4	877.2	571.6	471.8	404.1	365.7	349.1	336.3	319.7	301.8	285.1
80°	526.8	529.4	457.8	400.2	351.6	306.9	285.1	269.8	260.9	254.5	245.5
82.5°	368.3	379.8	349.1	310.7	268.5	236.6	217.4	213.5	214.8	214.8	212.3
85°	276.2	271.1	244.2	222.5	203.3	182.9	167.5	166.2	171.3	171.3	167.5
87.5°	159.8	161.1	138.1	129.1	134.3	115.1	104.9	106.1	118.9	117.6	115.1
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°	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2678.9	2682.7	2681.4	2685.2	2681.4
5°	2728.7	2727.4	2726.2	2731.3	2724.9
7.5°	2721.1	2722.3	2722.3	2722.3	2721.1
10°	2701.9	2707.0	2709.5	2714.7	2713.4
12.5°	2695.5	2703.2	2710.8	2718.5	2719.8
15°	2696.8	2701.9	2705.7	2709.5	2710.8
17.5°	2663.5	2662.2	2658.4	2655.8	2653.3
20°	2595.7	2589.3	2583.0	2572.7	2577.8
22.5°	2511.3	2493.4	2473.0	2456.4	2455.1
25°	2412.9	2379.6	2346.4	2324.7	2317.0
27.5°	2325.9	2286.3	2251.8	2232.6	2227.5
30°	2222.4	2186.6	2155.9	2139.2	2129.0
32.5°	2068.9	2040.8	2002.4	1989.6	1988.4
35°	1855.4	1833.6	1806.8	1801.7	1795.3
37.5°	1613.7	1606.0	1593.2	1577.9	1575.3
40°	1355.4	1360.5	1356.7	1347.7	1333.7
42.5°	1106.1	1115.0	1116.3	1122.7	1129.1
45°	881.0	888.7	888.7	895.1	902.8
47.5°	676.4	671.3	675.1	681.5	685.4
50°	511.5	507.6	501.2	496.1	491.0
52.5°	411.7	404.1	386.2	381.0	375.9
55°	363.1	349.1	336.3	331.2	331.2
57.5°	349.1	331.2	317.1	310.7	308.2
60°	351.6	326.1	308.2	297.9	294.1
62.5°	363.1	327.3	303.0	291.5	287.7
65°	361.9	324.8	301.8	289.0	285.1
66°	355.5	321.0	299.2	287.7	285.1
67.5°	345.2	315.8	296.7	286.4	282.6
70°	324.8	305.6	291.5	282.6	278.8
72.5°	308.2	295.4	282.6	272.4	269.8
75°	292.8	280.0	268.5	263.4	259.6
77.5°	269.8	258.3	251.9	246.8	244.2
80°	239.1	231.4	223.8	218.7	214.8
82.5°	208.4	198.2	190.5	186.7	184.1
85°	170.1	163.7	152.2	144.5	143.2
87.5°	113.8	107.4	103.6	97.2	90.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)