

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: P159694

Luminaire Tested: **VTS-F08-LED-E1-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159694  
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-F08-LED-E1-T4-7030  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (56) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

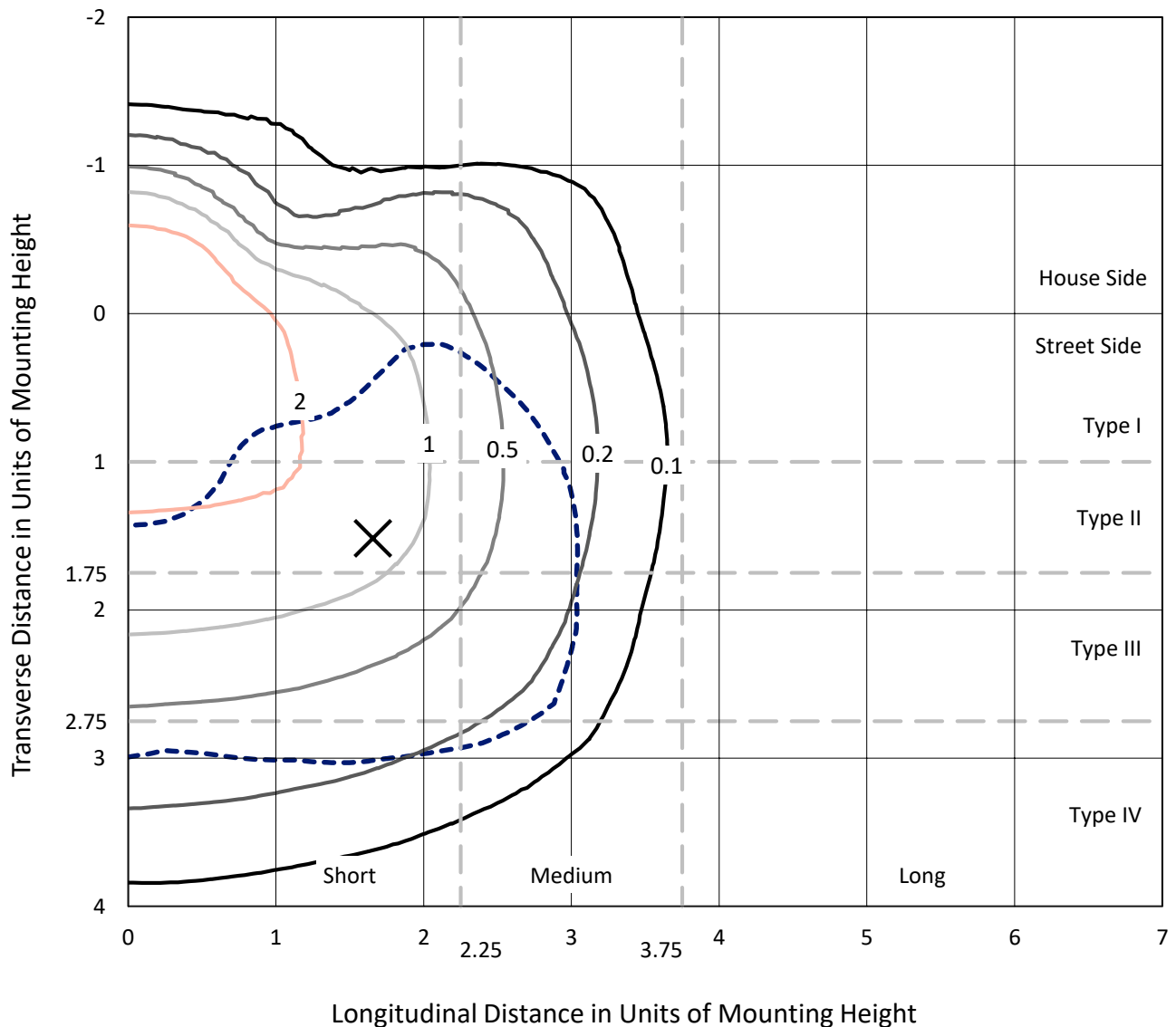
Lumens per Lamp: N/A  
Luminaire Lumens: 17953.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.4  
Input Voltage (V): NR  
Input Current (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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

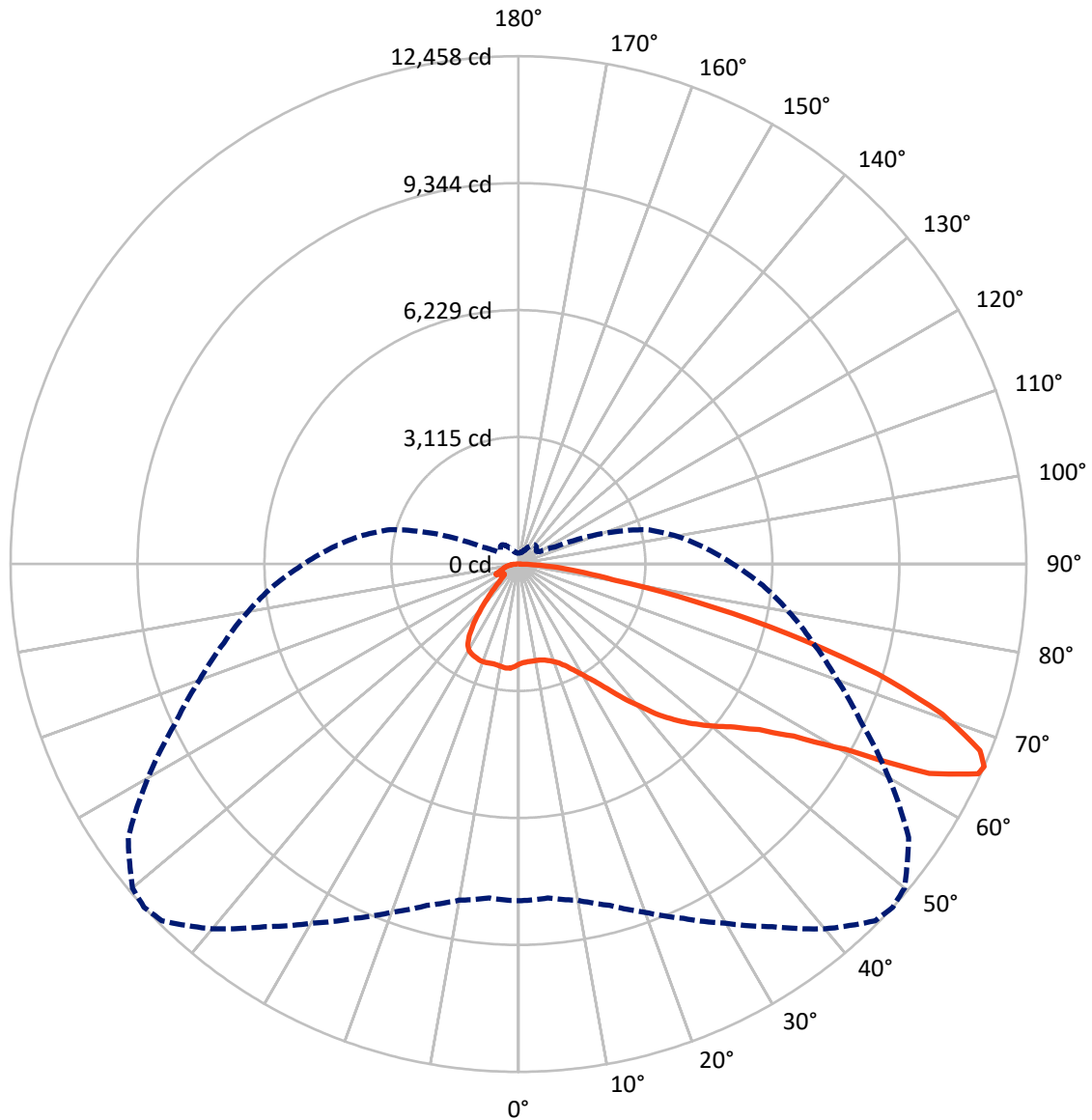


Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - Semi-Cutoff

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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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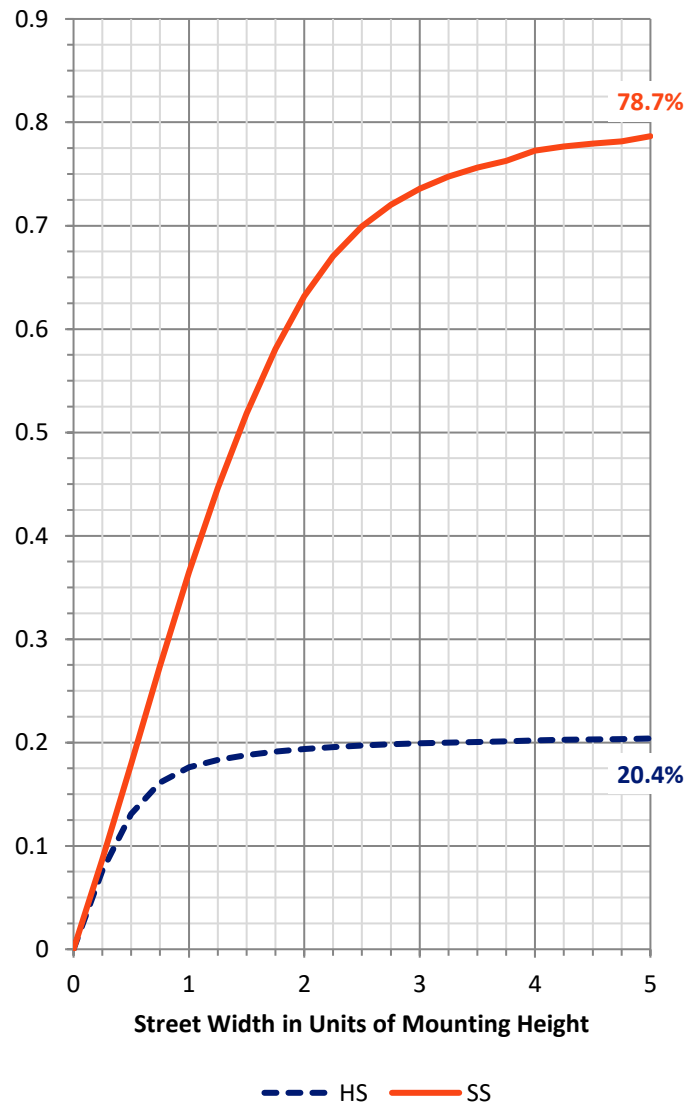
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3717.1   | 0.0    | 3717.1  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 14236.1  | 0.0    | 14236.1 |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 17953.2  | 0.0    | 17953.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**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     |



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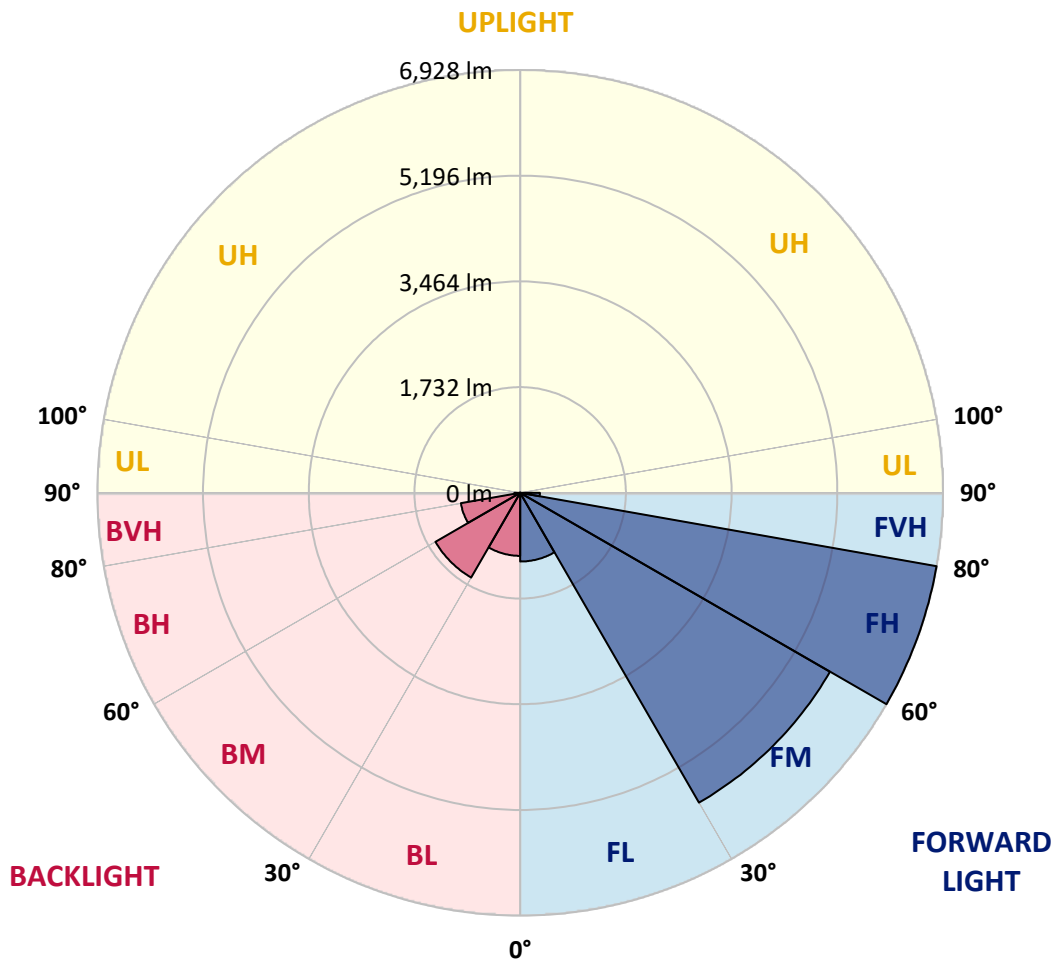
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| 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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**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)