

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: P194894

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-T4W-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23292 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 193  
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



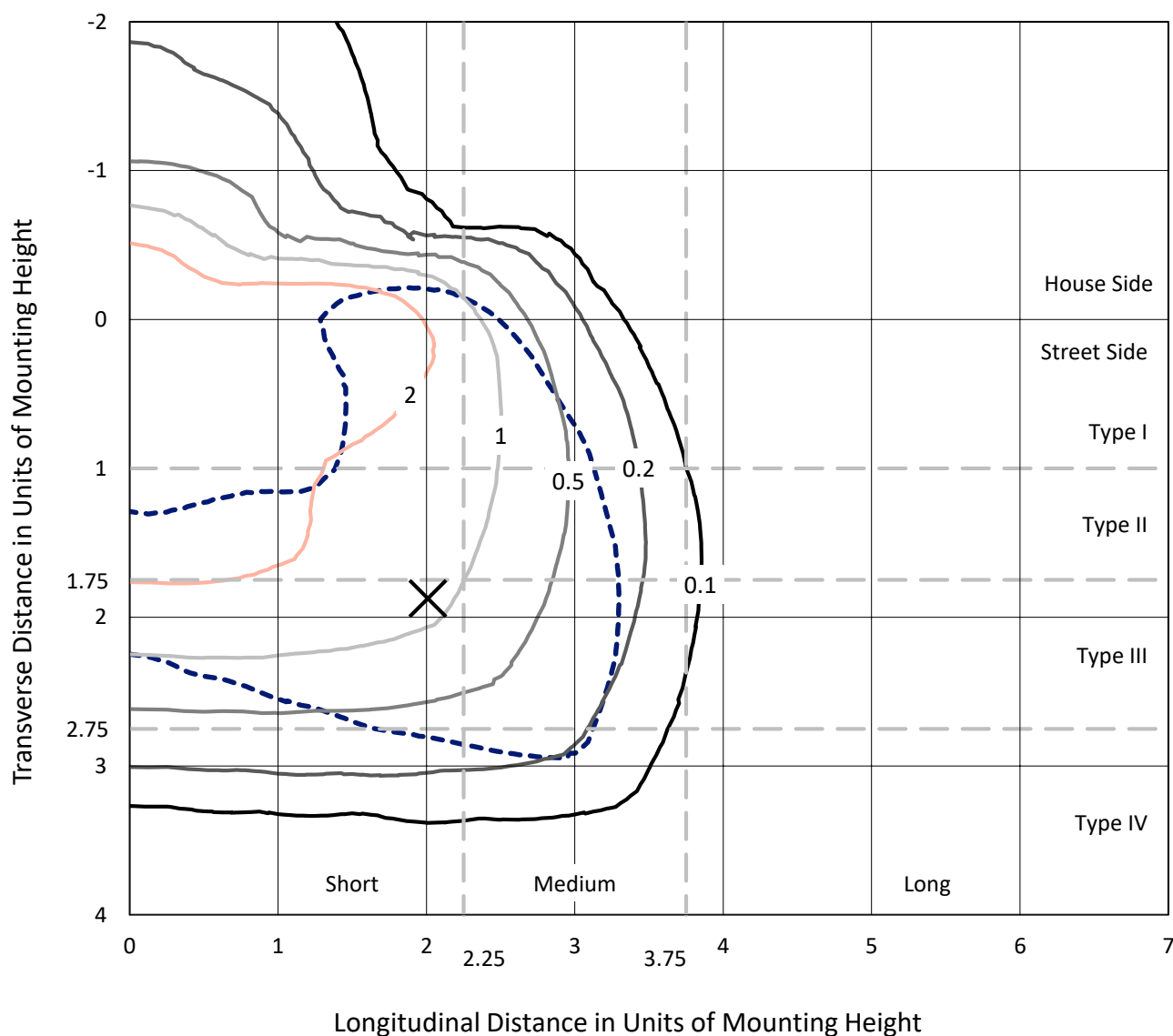
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

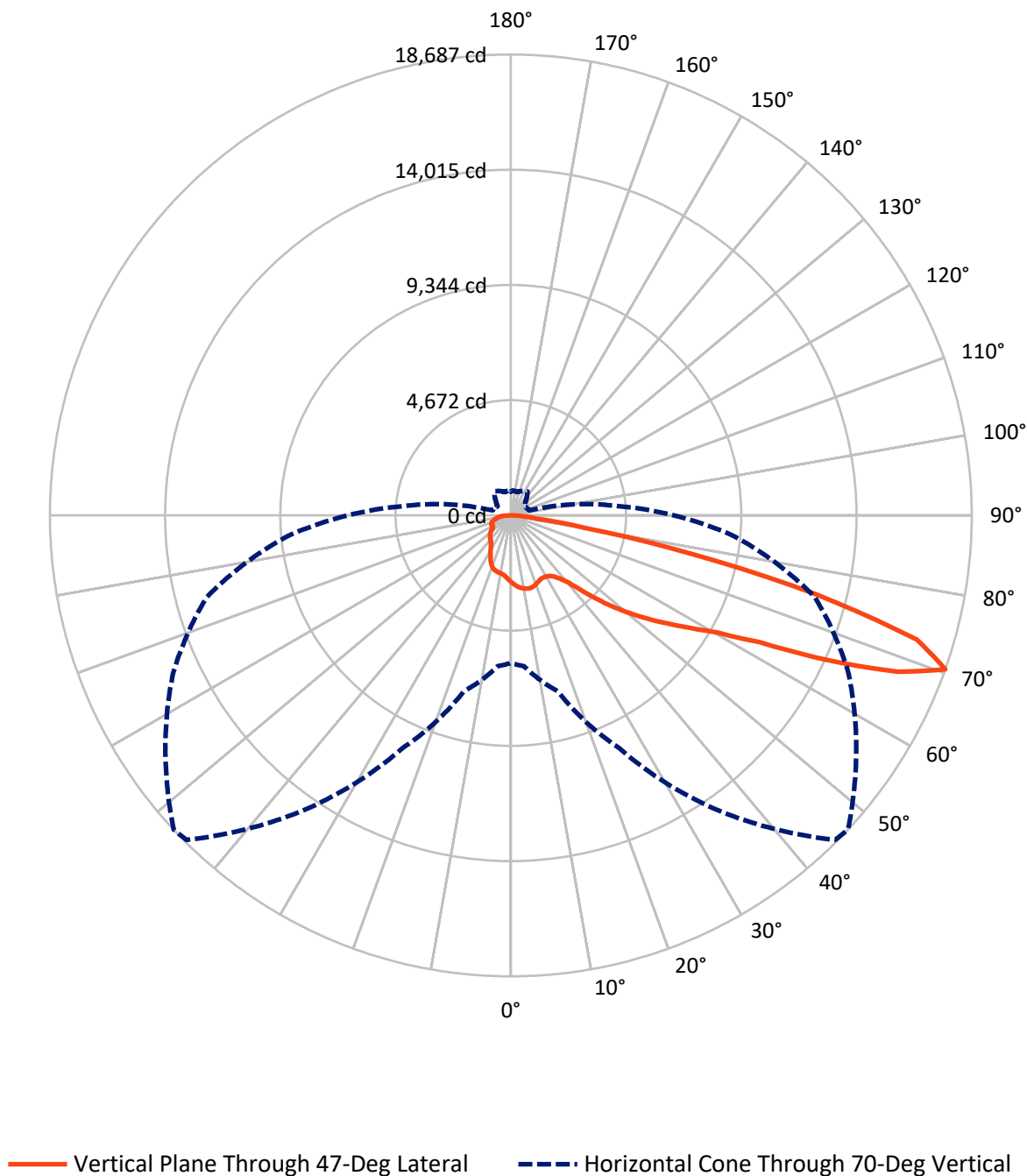


Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4859.2   | 0.0    | 4859.2  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 18432.8  | 0.0    | 18432.8 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 23292.0  | 0.0    | 23292.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 259.0   | 1.1       |
| 10°-20°   | 759.7   | 3.3       |
| 20°-30°   | 1121.9  | 4.8       |
| 30°-40°   | 1630.6  | 7.0       |
| 40°-50°   | 2934.6  | 12.6      |
| 50°-60°   | 5083.8  | 21.8      |
| 60°-70°   | 7256.1  | 31.2      |
| 70°-80°   | 3724.9  | 16.0      |
| 80°-90°   | 521.5   | 2.2       |
| 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°    | 23292.0 | 100.0     |
| 0°-180°   | 23292.0 | 100.0     |

**Coefficient of Utilization**



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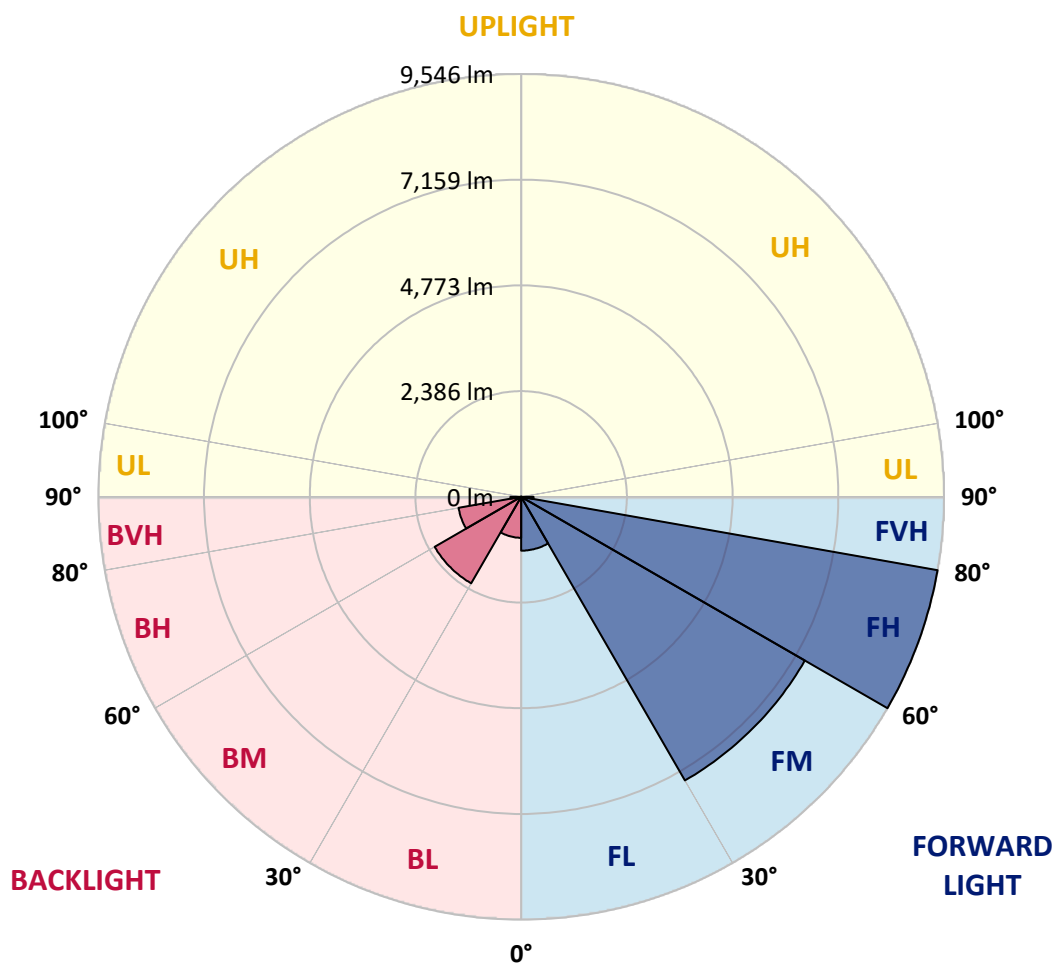
CATALOG NUMBER: GLEON-AF-06-LED-E1-T4W-7060-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1215.3 | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 7393.5 | 31.7      |                         |      |          |
| FH   | (60°-80°)   | 9545.7 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 278.3  | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 925.2  | 4.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 2255.5 | 9.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1435.3 | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 243.2  | 1.0       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  | 2702.6  |
| 2.5°  | 2861.2  | 2855.6  | 2853.3  | 2848.8  | 2843.1  | 2814.8  | 2809.1  | 2788.7  | 2760.4  | 2730.9  | 2700.3  |
| 5°    | 3049.3  | 3048.2  | 3035.7  | 3013.1  | 2976.8  | 2914.5  | 2899.8  | 2849.9  | 2783.1  | 2718.5  | 2653.9  |
| 7.5°  | 3214.8  | 3204.6  | 3180.8  | 3135.5  | 3072.0  | 2987.0  | 2966.6  | 2897.5  | 2805.7  | 2717.3  | 2630.1  |
| 10°   | 3336.0  | 3330.4  | 3278.2  | 3215.9  | 3133.2  | 3039.1  | 3015.4  | 2938.3  | 2837.4  | 2725.3  | 2616.5  |
| 12.5° | 3405.2  | 3393.8  | 3333.8  | 3259.0  | 3160.4  | 3068.6  | 3044.8  | 2966.6  | 2853.3  | 2725.3  | 2597.2  |
| 15°   | 3400.6  | 3392.7  | 3332.6  | 3251.0  | 3151.3  | 3070.9  | 3049.3  | 2971.2  | 2849.9  | 2713.9  | 2572.3  |
| 17.5° | 3310.0  | 3313.4  | 3262.4  | 3181.9  | 3100.3  | 3039.1  | 3019.9  | 2947.4  | 2827.2  | 2691.3  | 2542.8  |
| 20°   | 3151.3  | 3167.2  | 3133.2  | 3061.8  | 3016.5  | 2974.6  | 2962.1  | 2900.9  | 2792.1  | 2658.4  | 2511.1  |
| 22.5° | 2992.7  | 3007.4  | 2993.8  | 2933.8  | 2927.0  | 2902.0  | 2895.2  | 2851.0  | 2761.5  | 2638.0  | 2491.8  |
| 25°   | 2876.0  | 2889.6  | 2887.3  | 2835.2  | 2855.6  | 2854.4  | 2848.8  | 2827.2  | 2754.7  | 2638.0  | 2495.2  |
| 27.5° | 2844.2  | 2848.8  | 2844.2  | 2796.6  | 2825.0  | 2847.6  | 2843.1  | 2839.7  | 2775.1  | 2670.9  | 2538.3  |
| 30°   | 2953.0  | 2946.2  | 2911.1  | 2814.8  | 2840.8  | 2872.6  | 2868.0  | 2870.3  | 2836.3  | 2757.0  | 2634.6  |
| 32.5° | 3387.0  | 3356.4  | 3245.4  | 2974.6  | 2905.4  | 2922.4  | 2924.7  | 2962.1  | 2967.8  | 2889.6  | 2784.2  |
| 35°   | 4036.3  | 4002.3  | 3858.4  | 3402.9  | 3106.0  | 3047.1  | 3047.1  | 3103.7  | 3137.7  | 3079.9  | 3016.5  |
| 37.5° | 4724.2  | 4686.8  | 4609.7  | 3996.7  | 3527.5  | 3263.5  | 3257.8  | 3297.5  | 3346.2  | 3359.8  | 3375.7  |
| 40°   | 5506.0  | 5466.4  | 5487.9  | 4663.0  | 4115.7  | 3638.6  | 3558.1  | 3529.8  | 3661.3  | 3748.5  | 3875.4  |
| 42.5° | 6361.6  | 6343.5  | 6351.4  | 5405.2  | 4785.4  | 4199.5  | 4085.1  | 3938.9  | 4097.5  | 4252.8  | 4519.1  |
| 45°   | 7153.7  | 7169.5  | 7161.6  | 6199.5  | 5531.0  | 4883.9  | 4762.7  | 4479.4  | 4634.6  | 4900.9  | 5334.9  |
| 47.5° | 7847.2  | 7781.4  | 7883.4  | 7067.5  | 6366.1  | 5650.0  | 5500.4  | 5120.8  | 5278.3  | 5606.9  | 6341.2  |
| 50°   | 8689.1  | 8680.0  | 8530.5  | 8225.6  | 7375.8  | 6419.4  | 6223.3  | 5783.7  | 6028.4  | 6485.1  | 7609.2  |
| 52.5° | 9574.1  | 9409.8  | 9272.7  | 9126.5  | 8446.6  | 7208.1  | 6967.8  | 6444.3  | 6910.0  | 7484.6  | 9154.8  |
| 55°   | 9755.4  | 9681.8  | 9851.7  | 10097.6 | 9478.9  | 8027.3  | 7747.4  | 7272.6  | 7902.7  | 8626.8  | 10937.3 |
| 57.5° | 10143.0 | 10141.8 | 10493.1 | 10931.6 | 10541.8 | 8896.5  | 8614.3  | 8273.2  | 9018.9  | 9935.6  | 12829.7 |
| 60°   | 10404.7 | 10478.4 | 11131.1 | 11982.1 | 11585.5 | 9900.5  | 9641.0  | 9427.9  | 10288.0 | 11398.5 | 14592.9 |
| 62.5° | 10541.8 | 10641.5 | 11532.2 | 12408.2 | 13060.9 | 11571.9 | 11312.4 | 11005.3 | 11967.3 | 13003.1 | 15624.1 |
| 65°   | 9971.8  | 10167.9 | 11469.9 | 12776.4 | 14352.7 | 14281.3 | 14164.6 | 13625.2 | 14067.1 | 14271.1 | 15251.3 |
| 67.5° | 8394.5  | 8595.1  | 10111.2 | 12433.1 | 15275.1 | 16894.3 | 16919.3 | 15998.0 | 15358.9 | 14379.9 | 12822.9 |
| 70°   | 5980.8  | 6138.4  | 7392.8  | 10424.0 | 14572.5 | 18602.0 | 18687.0 | 17091.5 | 15101.7 | 12752.6 | 8958.8  |
| 72.5° | 2839.7  | 2936.0  | 4123.6  | 6784.3  | 11563.9 | 17043.9 | 17208.2 | 15695.5 | 12841.0 | 9441.5  | 4887.3  |
| 75°   | 1043.6  | 1073.1  | 1393.8  | 2886.2  | 6707.2  | 12569.1 | 12762.8 | 11251.2 | 8512.3  | 4700.4  | 1861.8  |
| 77.5° | 625.5   | 644.8   | 781.9   | 1218.2  | 2638.0  | 7184.3  | 7471.0  | 6119.1  | 3720.2  | 1749.6  | 915.6   |
| 80°   | 437.4   | 451.0   | 560.9   | 758.1   | 1246.5  | 2737.7  | 2992.7  | 2497.5  | 1482.2  | 1107.1  | 666.3   |
| 82.5° | 295.8   | 302.6   | 394.3   | 512.2   | 828.3   | 977.9   | 1055.0  | 1110.5  | 999.5   | 823.8   | 422.7   |
| 85°   | 193.8   | 200.6   | 267.4   | 337.7   | 526.9   | 505.4   | 516.7   | 653.8   | 729.8   | 559.8   | 234.6   |
| 87.5° | 111.1   | 115.6   | 160.9   | 180.2   | 258.4   | 214.2   | 216.4   | 344.5   | 466.9   | 377.3   | 142.8   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.6  | 2702.6  | 2702.6 | 2702.6 | 2702.6 | 2702.6 | 2702.6 | 2702.6 | 2702.6 | 2702.6 | 2702.6 |
| 2.5°  | 2692.4  | 2677.7  | 2644.8 | 2624.4 | 2605.1 | 2600.6 | 2592.7 | 2591.5 | 2590.4 | 2590.4 | 2587.0 |
| 5°    | 2632.3  | 2607.4  | 2556.4 | 2528.1 | 2504.3 | 2502.0 | 2500.9 | 2506.6 | 2508.8 | 2511.1 | 2507.7 |
| 7.5°  | 2593.8  | 2559.8  | 2496.4 | 2455.6 | 2427.2 | 2420.4 | 2431.8 | 2457.8 | 2474.8 | 2481.6 | 2478.2 |
| 10°   | 2570.0  | 2528.1  | 2454.4 | 2410.2 | 2386.4 | 2383.0 | 2397.8 | 2428.4 | 2463.5 | 2477.1 | 2476.0 |
| 12.5° | 2542.8  | 2495.2  | 2417.0 | 2370.6 | 2357.0 | 2363.8 | 2383.0 | 2411.4 | 2447.6 | 2469.2 | 2470.3 |
| 15°   | 2515.6  | 2460.1  | 2379.6 | 2338.9 | 2333.2 | 2342.3 | 2360.4 | 2381.9 | 2410.2 | 2431.8 | 2434.0 |
| 17.5° | 2482.8  | 2425.0  | 2344.5 | 2302.6 | 2298.1 | 2302.6 | 2303.7 | 2315.1 | 2333.2 | 2353.6 | 2359.2 |
| 20°   | 2447.6  | 2388.7  | 2304.9 | 2262.9 | 2242.5 | 2224.4 | 2204.0 | 2206.3 | 2211.9 | 2232.3 | 2236.9 |
| 22.5° | 2422.7  | 2363.8  | 2274.3 | 2216.5 | 2162.1 | 2107.7 | 2066.9 | 2061.2 | 2063.5 | 2080.5 | 2086.2 |
| 25°   | 2425.0  | 2362.6  | 2266.3 | 2166.6 | 2047.6 | 1960.4 | 1906.0 | 1896.9 | 1895.8 | 1908.2 | 1916.2 |
| 27.5° | 2469.2  | 2406.8  | 2295.8 | 2115.6 | 1923.0 | 1793.8 | 1736.0 | 1729.2 | 1720.1 | 1723.5 | 1732.6 |
| 30°   | 2567.8  | 2510.0  | 2367.2 | 2063.5 | 1788.1 | 1630.6 | 1570.6 | 1563.8 | 1551.3 | 1545.6 | 1552.4 |
| 32.5° | 2728.7  | 2681.1  | 2471.4 | 2013.6 | 1653.3 | 1491.2 | 1430.1 | 1415.3 | 1407.4 | 1400.6 | 1406.3 |
| 35°   | 2996.1  | 2975.7  | 2610.8 | 1959.2 | 1534.3 | 1383.6 | 1328.1 | 1305.4 | 1294.1 | 1306.5 | 1315.6 |
| 37.5° | 3415.4  | 3426.7  | 2793.3 | 1874.3 | 1442.5 | 1312.2 | 1265.7 | 1239.7 | 1222.7 | 1232.9 | 1243.1 |
| 40°   | 4009.1  | 4017.1  | 2995.0 | 1754.1 | 1363.2 | 1270.3 | 1220.4 | 1196.6 | 1172.8 | 1154.7 | 1153.6 |
| 42.5° | 4788.8  | 4708.3  | 3193.3 | 1623.8 | 1271.4 | 1244.2 | 1188.7 | 1159.2 | 1123.0 | 1073.1 | 1062.9 |
| 45°   | 5713.4  | 5431.3  | 3344.0 | 1474.2 | 1168.3 | 1212.5 | 1153.6 | 1112.8 | 1056.1 | 1001.7 | 996.1  |
| 47.5° | 6778.6  | 6207.5  | 3417.6 | 1319.0 | 1072.0 | 1166.0 | 1110.5 | 1045.9 | 974.5  | 947.3  | 943.9  |
| 50°   | 8079.5  | 7128.7  | 3452.8 | 1168.3 | 988.1  | 1104.8 | 1048.2 | 972.3  | 912.2  | 906.5  | 903.1  |
| 52.5° | 9560.5  | 8237.0  | 3464.1 | 1044.8 | 919.0  | 1025.5 | 997.2  | 923.5  | 875.9  | 880.5  | 880.5  |
| 55°   | 11110.7 | 9381.5  | 3310.0 | 955.3  | 855.5  | 943.9  | 963.2  | 904.3  | 864.6  | 882.7  | 889.5  |
| 57.5° | 12533.9 | 10395.7 | 2825.0 | 886.1  | 795.5  | 881.6  | 950.7  | 922.4  | 895.2  | 968.9  | 973.4  |
| 60°   | 13626.3 | 10995.1 | 2110.0 | 823.8  | 751.3  | 860.1  | 983.6  | 991.5  | 998.3  | 1174.0 | 1197.8 |
| 62.5° | 13855.2 | 10795.7 | 1450.5 | 775.1  | 730.9  | 878.2  | 1043.6 | 1044.8 | 1036.8 | 1159.2 | 1174.0 |
| 65°   | 12804.8 | 9534.4  | 1055.0 | 747.9  | 713.9  | 911.1  | 1094.6 | 1070.8 | 1018.7 | 1111.6 | 1084.4 |
| 67.5° | 10169.0 | 7183.1  | 878.2  | 727.5  | 689.0  | 908.8  | 1149.0 | 1094.6 | 1008.5 | 1089.0 | 1044.8 |
| 70°   | 6600.7  | 4343.4  | 781.9  | 710.5  | 659.5  | 865.7  | 1180.8 | 1092.4 | 979.1  | 1013.0 | 960.9  |
| 72.5° | 3220.5  | 1942.2  | 717.3  | 685.6  | 628.9  | 805.7  | 1179.6 | 1072.0 | 948.5  | 946.2  | 917.9  |
| 75°   | 1260.1  | 889.5   | 658.4  | 648.2  | 576.8  | 737.7  | 1147.9 | 1042.5 | 912.2  | 875.9  | 865.7  |
| 77.5° | 737.7   | 634.6   | 583.6  | 592.6  | 514.5  | 669.7  | 1101.4 | 991.5  | 862.3  | 819.3  | 807.9  |
| 80°   | 537.1   | 474.8   | 497.5  | 512.2  | 439.7  | 601.7  | 1039.1 | 929.2  | 806.8  | 828.3  | 812.5  |
| 82.5° | 344.5   | 306.0   | 403.4  | 418.1  | 366.0  | 532.6  | 971.1  | 863.5  | 728.6  | 661.8  | 645.9  |
| 85°   | 175.6   | 193.8   | 300.3  | 318.4  | 282.2  | 437.4  | 888.4  | 776.2  | 640.2  | 550.7  | 559.8  |
| 87.5° | 98.6    | 132.6   | 191.5  | 214.2  | 199.4  | 336.5  | 720.7  | 640.2  | 522.4  | 424.9  | 373.9  |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)