

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: P193711

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14830 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

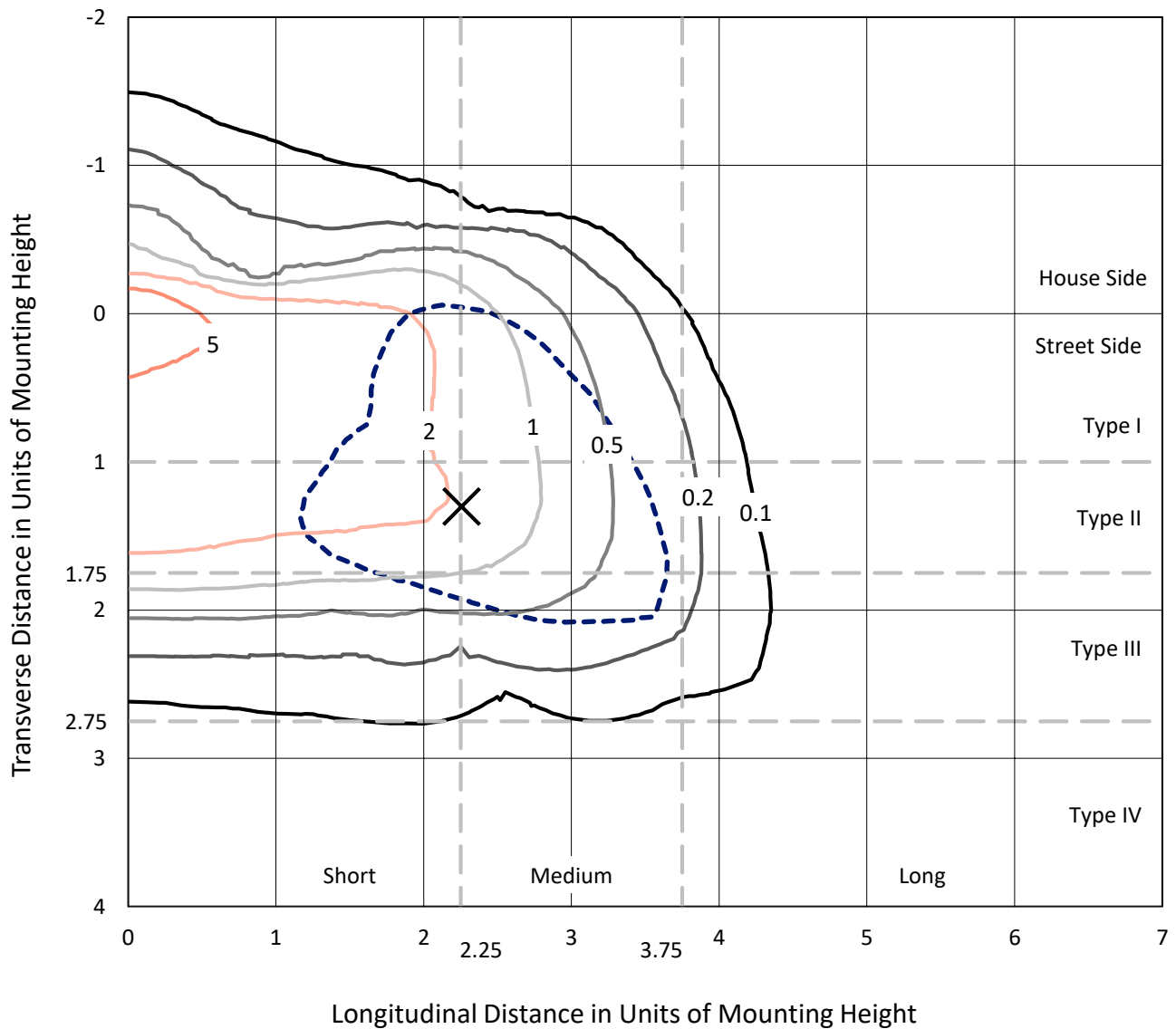
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

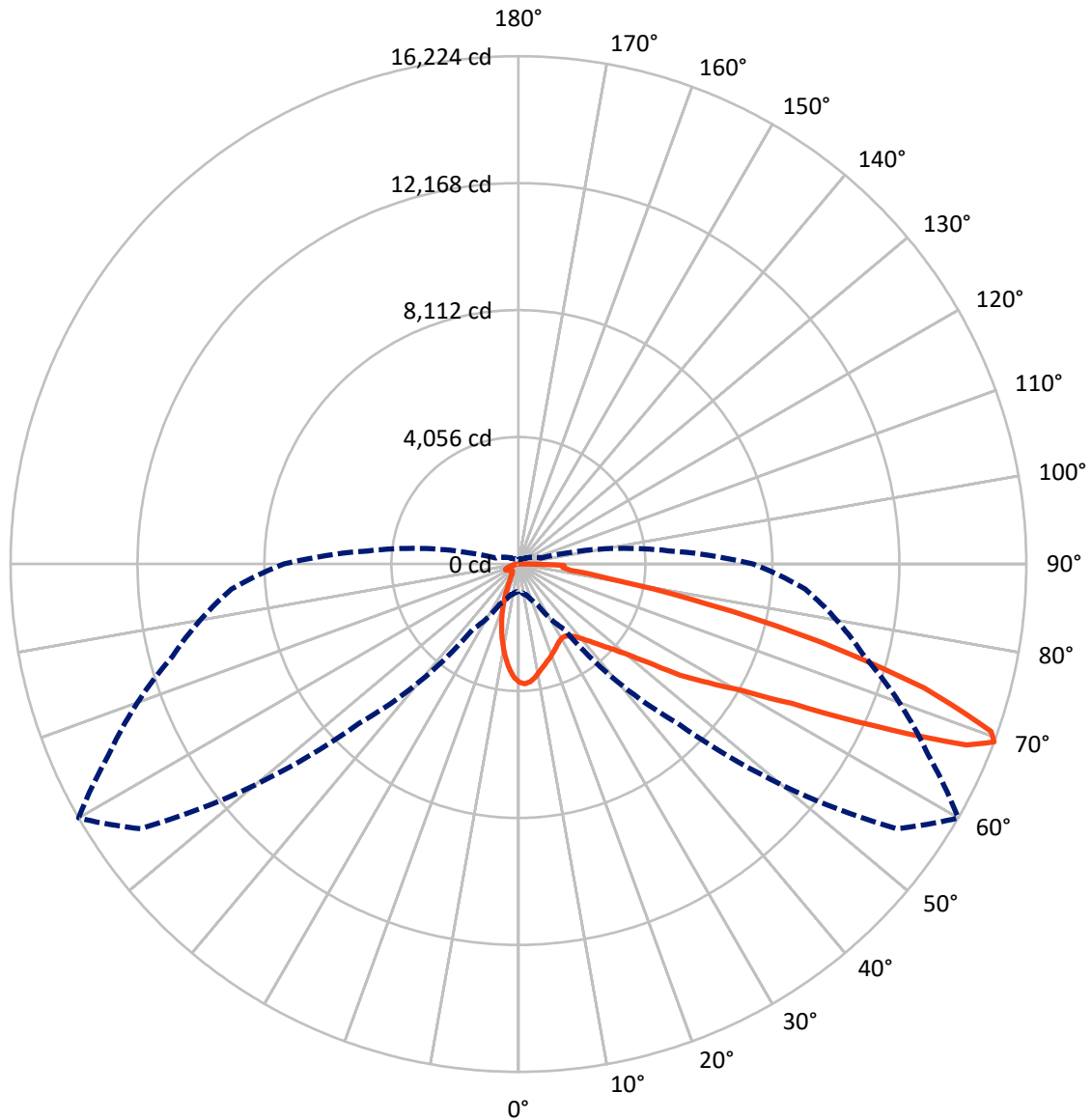
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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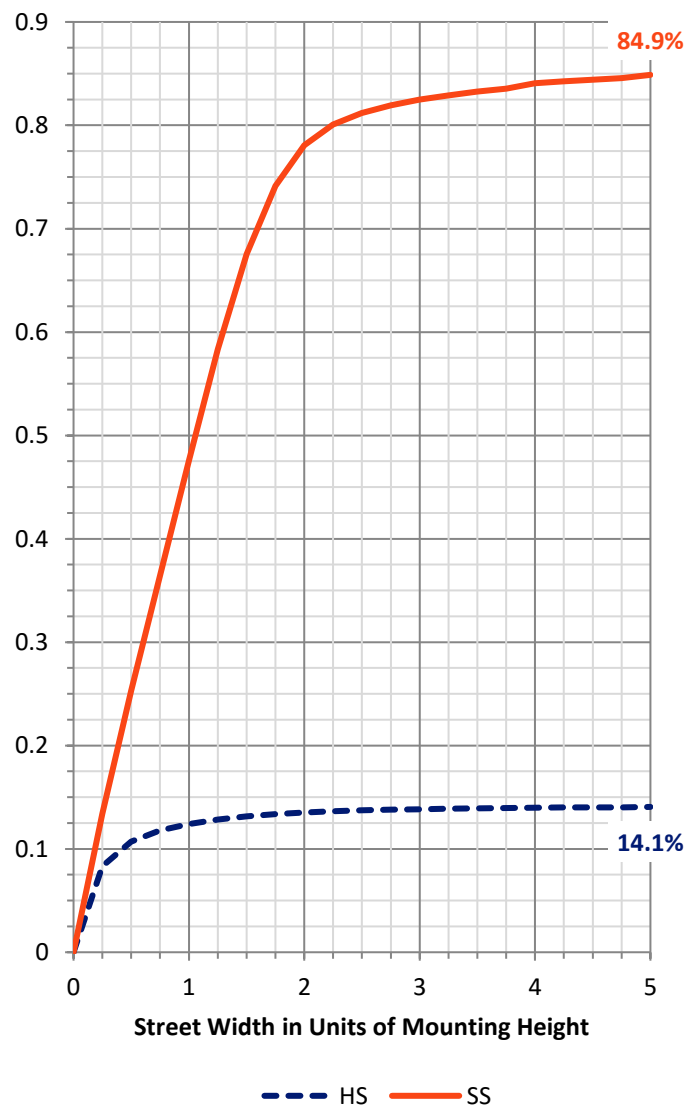
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2109.8   | 0.0    | 2109.8  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 12720.2  | 0.0    | 12720.2 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 14830.0  | 0.0    | 14830.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 319.5   | 2.2       |
| 10°-20°   | 680.8   | 4.6       |
| 20°-30°   | 867.4   | 5.8       |
| 30°-40°   | 1192.5  | 8.0       |
| 40°-50°   | 1934.9  | 13.0      |
| 50°-60°   | 3103.1  | 20.9      |
| 60°-70°   | 4130.0  | 27.8      |
| 70°-80°   | 2229.9  | 15.0      |
| 80°-90°   | 372.1   | 2.5       |
| 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°    | 14830.0 | 100.0     |
| 0°-180°   | 14830.0 | 100.0     |

**Coefficient of Utilization**



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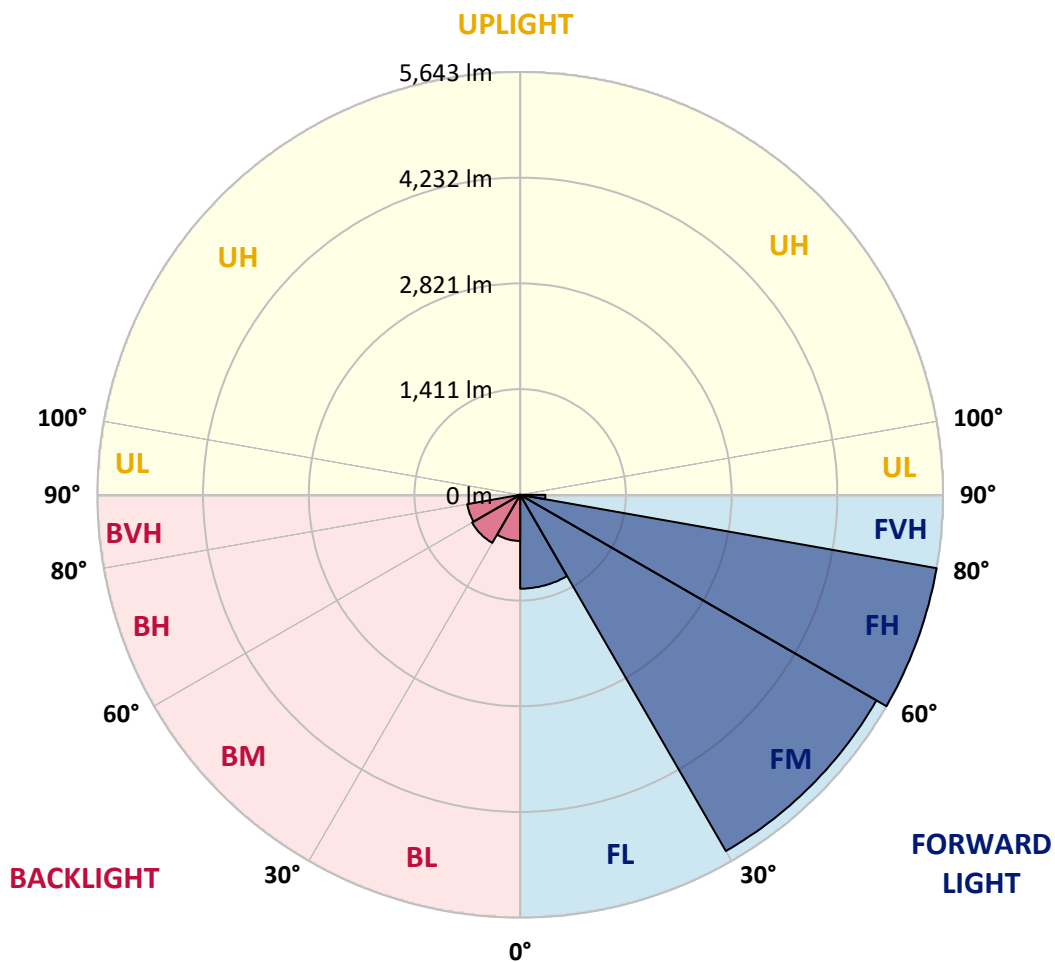
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1252.2 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 5489.2 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 5642.5 | 38.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 336.2  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 615.5  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 741.2  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 717.3  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 35.8   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9  | 3778.9  | 3778.9  | 3778.9  | 3778.9  |
| 2.5°  | 3856.3 | 3864.9 | 3861.3 | 3859.1 | 3865.6 | 3855.6 | 3834.8  | 3828.3  | 3818.3  | 3794.7  | 3754.6  |
| 5°    | 3711.6 | 3737.4 | 3735.9 | 3755.3 | 3787.5 | 3796.1 | 3786.8  | 3788.2  | 3769.6  | 3740.2  | 3673.6  |
| 7.5°  | 3461.6 | 3472.3 | 3478.0 | 3520.3 | 3579.0 | 3626.3 | 3666.4  | 3679.3  | 3670.7  | 3645.7  | 3559.7  |
| 10°   | 3203.7 | 3212.3 | 3225.9 | 3275.3 | 3349.8 | 3415.0 | 3490.9  | 3534.6  | 3553.2  | 3549.0  | 3453.0  |
| 12.5° | 2982.3 | 2990.9 | 3008.8 | 3064.7 | 3153.5 | 3233.7 | 3344.1  | 3398.5  | 3442.9  | 3469.4  | 3366.3  |
| 15°   | 2783.9 | 2802.5 | 2819.7 | 2884.1 | 2983.7 | 3089.0 | 3213.7  | 3282.5  | 3351.2  | 3410.7  | 3289.6  |
| 17.5° | 2629.1 | 2647.7 | 2657.8 | 2716.5 | 2822.5 | 2951.5 | 3097.6  | 3178.6  | 3264.5  | 3362.0  | 3213.7  |
| 20°   | 2539.6 | 2548.2 | 2543.9 | 2576.8 | 2672.1 | 2808.9 | 2982.3  | 3076.1  | 3180.0  | 3316.1  | 3137.7  |
| 22.5° | 2514.5 | 2515.2 | 2499.5 | 2495.9 | 2557.5 | 2672.8 | 2859.1  | 2973.0  | 3100.5  | 3286.0  | 3072.6  |
| 25°   | 2575.4 | 2573.2 | 2530.3 | 2495.2 | 2501.6 | 2568.9 | 2740.2  | 2872.7  | 3033.9  | 3279.6  | 3022.4  |
| 27.5° | 2710.8 | 2717.2 | 2653.5 | 2587.6 | 2522.4 | 2520.2 | 2649.9  | 2789.6  | 2979.4  | 3309.0  | 3000.9  |
| 30°   | 2900.6 | 2911.4 | 2843.3 | 2759.5 | 2637.0 | 2536.0 | 2614.8  | 2740.2  | 2945.8  | 3369.9  | 2997.3  |
| 32.5° | 3108.4 | 3119.8 | 3068.3 | 2980.1 | 2819.7 | 2633.4 | 2639.1  | 2744.5  | 2944.3  | 3455.1  | 3021.7  |
| 35°   | 3329.7 | 3342.6 | 3316.1 | 3241.6 | 3063.2 | 2813.2 | 2732.3  | 2813.9  | 2990.9  | 3585.5  | 3086.9  |
| 37.5° | 3576.9 | 3596.9 | 3604.1 | 3533.2 | 3342.6 | 3050.3 | 2884.9  | 2945.8  | 3096.2  | 3766.7  | 3206.5  |
| 40°   | 3932.9 | 3960.9 | 3958.7 | 3857.0 | 3662.9 | 3370.6 | 3120.6  | 3136.3  | 3260.2  | 4008.9  | 3397.8  |
| 42.5° | 4614.9 | 4620.7 | 4442.3 | 4220.9 | 4015.3 | 3707.3 | 3398.5  | 3385.6  | 3486.6  | 4315.5  | 3679.3  |
| 45°   | 5482.5 | 5458.8 | 5061.9 | 4634.3 | 4383.5 | 4094.1 | 3760.3  | 3697.2  | 3773.9  | 4689.4  | 4031.8  |
| 47.5° | 6202.4 | 6148.0 | 5646.5 | 5056.2 | 4773.2 | 4514.6 | 4185.1  | 4074.8  | 4117.0  | 5113.5  | 4487.4  |
| 50°   | 6452.4 | 6411.6 | 5996.1 | 5407.2 | 5142.2 | 5027.6 | 4708.1  | 4551.9  | 4563.3  | 5619.3  | 5021.1  |
| 52.5° | 6398.7 | 6393.0 | 6115.7 | 5638.6 | 5487.5 | 5566.3 | 5448.8  | 5237.5  | 5125.7  | 6180.9  | 5597.1  |
| 55°   | 6271.9 | 6284.1 | 6183.8 | 5908.0 | 5882.2 | 6086.4 | 6416.6  | 6260.5  | 5913.0  | 6747.6  | 6192.4  |
| 57.5° | 5831.3 | 5862.9 | 6083.5 | 6246.8 | 6517.6 | 6821.4 | 7196.0  | 7151.6  | 6760.5  | 7360.1  | 6900.2  |
| 60°   | 4698.0 | 4771.1 | 5362.8 | 6180.9 | 7171.7 | 8121.6 | 8289.2  | 8186.1  | 7634.5  | 8120.2  | 7835.1  |
| 62.5° | 3291.8 | 3367.7 | 4071.2 | 5351.4 | 7064.2 | 9590.2 | 10243.5 | 9798.7  | 8889.6  | 9239.9  | 9045.0  |
| 65°   | 1762.3 | 1798.8 | 2336.1 | 3713.0 | 5963.9 | 9893.2 | 13099.7 | 12422.8 | 10876.8 | 10620.3 | 10080.2 |
| 67.5° | 972.1  | 992.2  | 1197.8 | 1874.8 | 3819.7 | 8711.9 | 14919.3 | 15430.8 | 13360.5 | 11539.5 | 9891.8  |
| 69°   | 879.0  | 897.6  | 1032.3 | 1419.9 | 2556.0 | 7203.2 | 14741.7 | 16223.9 | 14449.4 | 11448.5 | 9195.5  |
| 70°   | 859.7  | 876.9  | 997.9  | 1308.8 | 2068.9 | 5937.4 | 14146.4 | 16021.1 | 14708.7 | 11122.5 | 8588.0  |
| 72.5° | 773.7  | 792.3  | 909.8  | 1175.6 | 1768.0 | 2960.1 | 11205.6 | 13546.0 | 13354.1 | 9643.9  | 6514.1  |
| 75°   | 721.4  | 738.6  | 937.7  | 1151.2 | 1692.8 | 1873.3 | 7387.3  | 9983.5  | 9816.6  | 6746.2  | 3512.4  |
| 77.5° | 308.8  | 307.3  | 434.8  | 974.3  | 1717.9 | 1813.9 | 3969.5  | 6236.8  | 5690.2  | 2883.4  | 1008.7  |
| 80°   | 206.3  | 202.7  | 206.3  | 286.6  | 1575.3 | 1823.9 | 2079.7  | 3165.7  | 2391.3  | 735.0   | 497.2   |
| 82.5° | 177.7  | 174.8  | 181.2  | 174.8  | 553.8  | 2081.8 | 1768.0  | 1683.5  | 1136.9  | 417.7   | 246.4   |
| 85°   | 119.6  | 114.6  | 156.2  | 156.9  | 261.5  | 1849.7 | 1991.5  | 1422.0  | 919.8   | 247.9   | 121.8   |
| 87.5° | 57.3   | 55.9   | 91.0   | 111.0  | 153.3  | 751.5  | 2234.4  | 1457.1  | 927.7   | 126.8   | 58.0    |
| 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°    | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 | 3778.9 |
| 2.5°  | 3742.4 | 3713.0 | 3684.3 | 3650.0 | 3614.1 | 3574.0 | 3554.0 | 3533.9 | 3528.9 | 3523.2 | 3503.1 |
| 5°    | 3639.2 | 3597.7 | 3526.0 | 3447.2 | 3364.1 | 3283.2 | 3221.6 | 3182.9 | 3153.5 | 3138.5 | 3112.0 |
| 7.5°  | 3506.0 | 3445.1 | 3319.7 | 3183.6 | 3043.9 | 2916.4 | 2806.1 | 2736.6 | 2670.7 | 2639.9 | 2604.8 |
| 10°   | 3379.2 | 3288.2 | 3093.3 | 2892.7 | 2692.2 | 2499.5 | 2318.2 | 2190.0 | 2076.1 | 2012.3 | 1967.2 |
| 12.5° | 3270.3 | 3145.6 | 2875.6 | 2604.0 | 2329.0 | 2054.6 | 1783.1 | 1569.6 | 1391.2 | 1297.4 | 1249.4 |
| 15°   | 3164.3 | 3013.8 | 2668.5 | 2323.9 | 1970.8 | 1597.5 | 1240.8 | 998.6  | 851.1  | 792.3  | 772.3  |
| 17.5° | 3068.3 | 2875.6 | 2460.8 | 2041.7 | 1601.1 | 1149.8 | 833.9  | 700.6  | 644.0  | 624.7  | 618.2  |
| 20°   | 2964.4 | 2735.9 | 2245.1 | 1746.5 | 1215.7 | 803.8  | 651.2  | 592.4  | 569.5  | 563.8  | 560.9  |
| 22.5° | 2864.1 | 2598.3 | 2038.8 | 1430.6 | 873.3  | 620.4  | 559.5  | 535.1  | 531.6  | 536.6  | 536.6  |
| 25°   | 2778.8 | 2475.1 | 1816.0 | 1100.4 | 641.2  | 522.2  | 500.8  | 495.0  | 508.6  | 527.3  | 530.8  |
| 27.5° | 2715.1 | 2374.1 | 1578.9 | 812.4  | 510.8  | 454.2  | 453.5  | 462.8  | 496.5  | 532.3  | 539.4  |
| 30°   | 2671.4 | 2278.1 | 1325.3 | 586.0  | 428.4  | 399.7  | 411.2  | 431.3  | 480.7  | 531.6  | 545.2  |
| 32.5° | 2649.2 | 2207.2 | 1061.0 | 453.5  | 366.8  | 351.0  | 370.4  | 394.7  | 443.4  | 490.7  | 508.6  |
| 35°   | 2666.4 | 2154.9 | 811.7  | 378.2  | 323.8  | 311.6  | 331.7  | 355.3  | 384.0  | 404.0  | 417.7  |
| 37.5° | 2730.8 | 2134.1 | 612.5  | 338.8  | 294.4  | 283.0  | 298.7  | 312.3  | 323.8  | 329.5  | 336.0  |
| 40°   | 2869.8 | 2156.3 | 490.7  | 318.8  | 278.0  | 263.6  | 270.1  | 275.1  | 282.3  | 288.0  | 290.9  |
| 42.5° | 3074.7 | 2222.9 | 439.9  | 310.9  | 269.4  | 248.6  | 247.2  | 249.3  | 258.6  | 269.4  | 271.5  |
| 45°   | 3361.3 | 2340.4 | 436.3  | 315.9  | 265.1  | 236.4  | 230.0  | 232.8  | 247.2  | 263.6  | 266.5  |
| 47.5° | 3727.3 | 2519.5 | 464.9  | 331.0  | 268.6  | 230.0  | 219.2  | 222.8  | 240.7  | 262.9  | 266.5  |
| 50°   | 4170.8 | 2769.5 | 512.9  | 353.2  | 284.4  | 231.4  | 215.6  | 217.8  | 236.4  | 260.8  | 264.3  |
| 52.5° | 4694.4 | 3124.1 | 565.2  | 374.7  | 300.9  | 240.7  | 218.5  | 213.5  | 230.7  | 252.2  | 256.5  |
| 55°   | 5276.9 | 3579.0 | 619.0  | 394.0  | 309.5  | 252.2  | 224.2  | 207.8  | 219.9  | 237.8  | 241.4  |
| 57.5° | 5991.8 | 4215.2 | 712.1  | 412.6  | 315.2  | 260.0  | 230.0  | 202.0  | 206.3  | 219.2  | 222.1  |
| 60°   | 6959.6 | 5115.0 | 876.1  | 443.4  | 328.1  | 262.9  | 229.2  | 197.0  | 192.7  | 199.9  | 201.3  |
| 62.5° | 8119.5 | 6092.1 | 1013.0 | 482.1  | 349.6  | 265.1  | 224.9  | 193.4  | 181.2  | 181.2  | 182.7  |
| 65°   | 8807.9 | 6353.6 | 937.0  | 514.4  | 367.5  | 262.9  | 219.9  | 189.8  | 172.6  | 164.8  | 165.5  |
| 67.5° | 8224.1 | 5587.8 | 803.1  | 520.8  | 366.8  | 252.9  | 212.0  | 183.4  | 164.1  | 151.9  | 151.2  |
| 69°   | 7492.6 | 4821.2 | 742.9  | 503.6  | 349.6  | 240.0  | 202.0  | 176.2  | 157.6  | 144.7  | 144.0  |
| 70°   | 6903.0 | 4353.4 | 703.5  | 485.0  | 331.0  | 230.7  | 194.1  | 169.8  | 152.6  | 140.4  | 139.0  |
| 72.5° | 5019.0 | 2852.6 | 601.0  | 416.9  | 272.9  | 193.4  | 167.6  | 149.0  | 136.1  | 128.9  | 127.5  |
| 75°   | 2508.0 | 1360.4 | 487.9  | 338.1  | 209.2  | 154.7  | 137.5  | 124.7  | 118.2  | 116.8  | 116.1  |
| 77.5° | 823.8  | 623.3  | 348.9  | 252.2  | 155.5  | 121.1  | 111.0  | 101.7  | 100.3  | 104.6  | 103.2  |
| 80°   | 452.8  | 362.5  | 221.4  | 166.9  | 106.0  | 88.8   | 87.4   | 82.4   | 84.5   | 91.7   | 90.3   |
| 82.5° | 230.7  | 188.4  | 136.8  | 100.3  | 71.6   | 63.8   | 69.5   | 66.6   | 69.5   | 75.9   | 75.2   |
| 85°   | 113.9  | 103.2  | 86.7   | 60.9   | 47.3   | 40.8   | 49.4   | 51.6   | 53.0   | 58.0   | 58.0   |
| 87.5° | 65.9   | 60.9   | 45.8   | 28.7   | 23.6   | 21.5   | 28.7   | 27.9   | 33.0   | 35.8   | 35.1   |
| 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)