

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: P192633

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-5WQ-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30307.4 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 279  
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

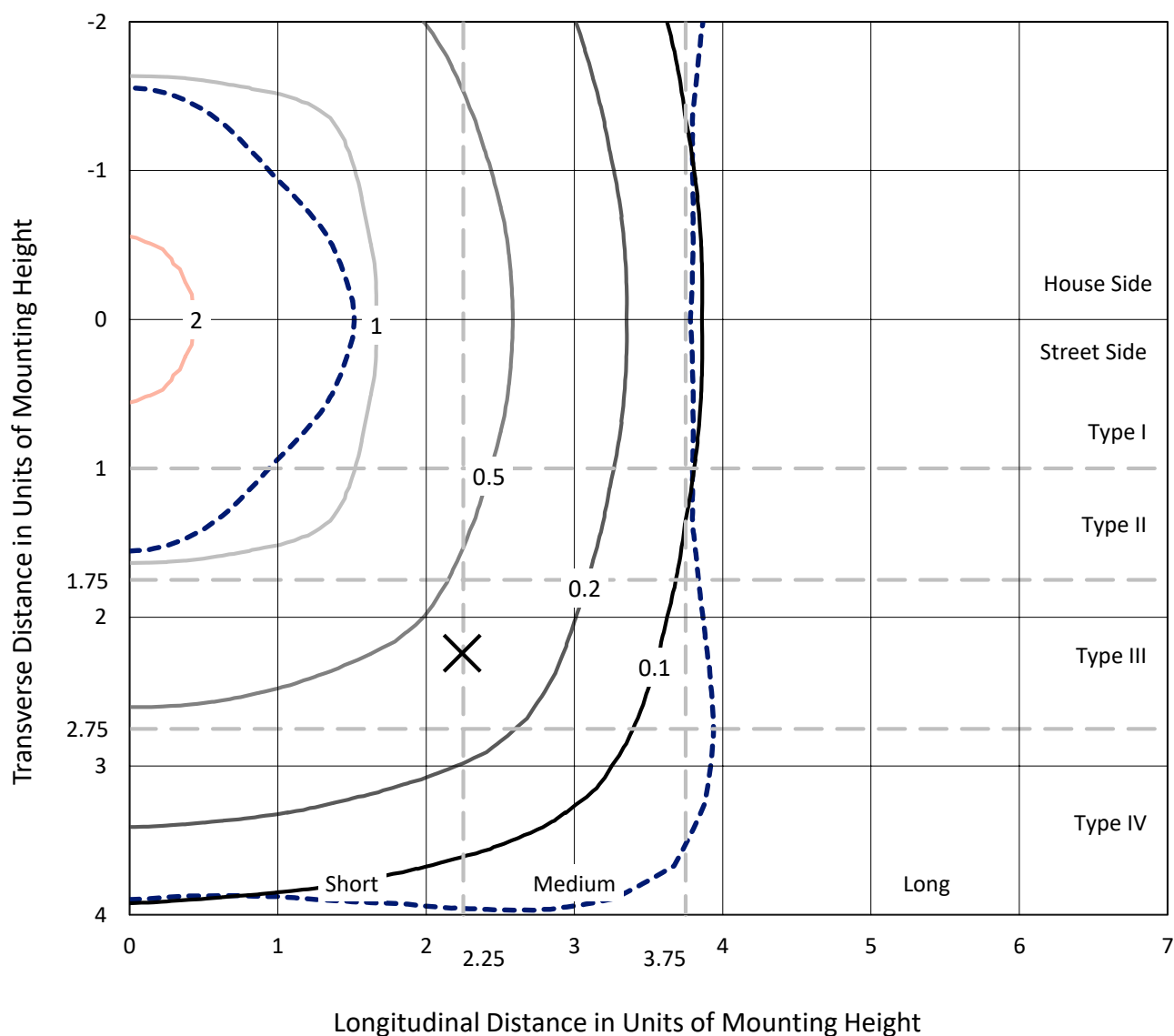


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

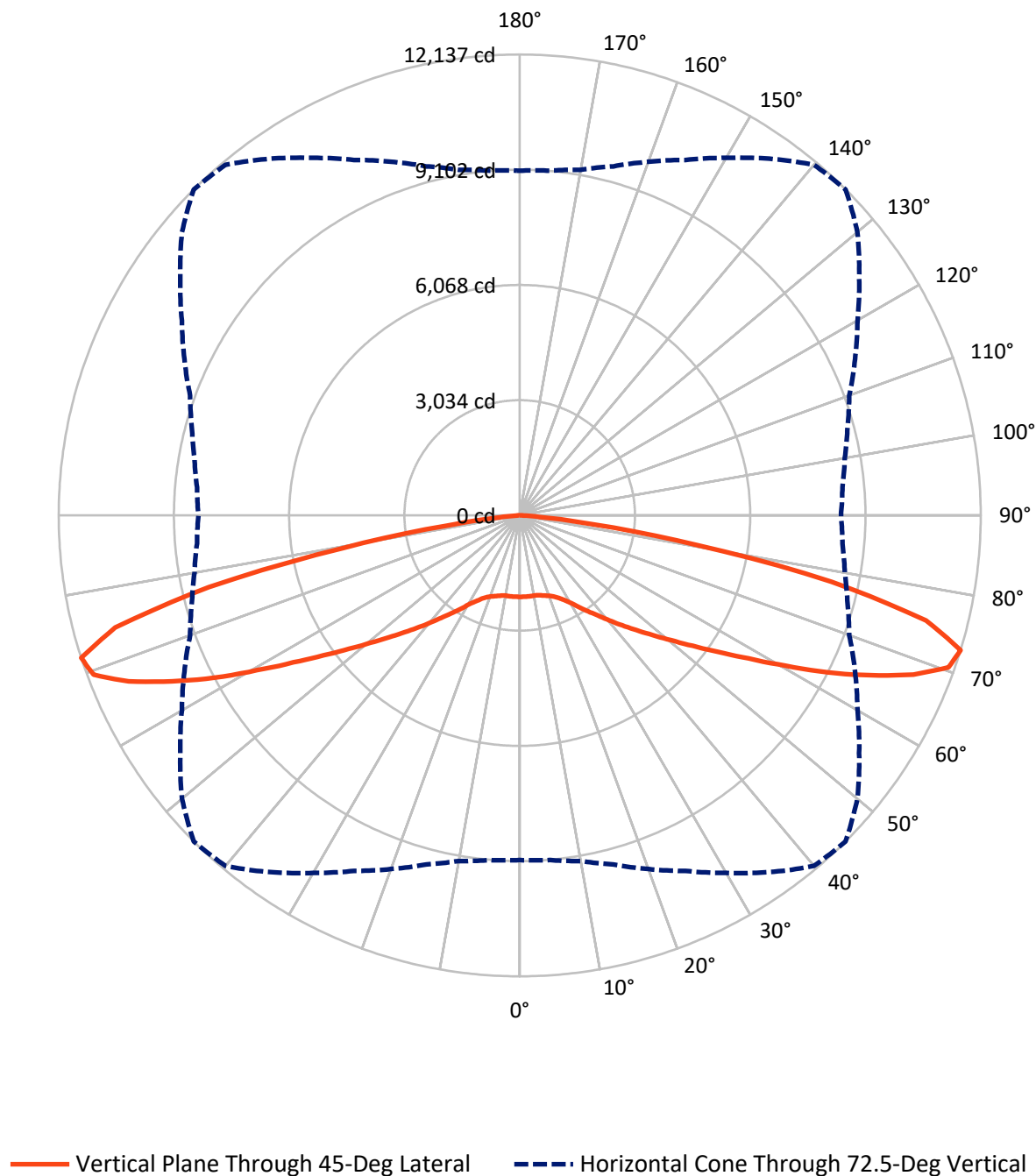


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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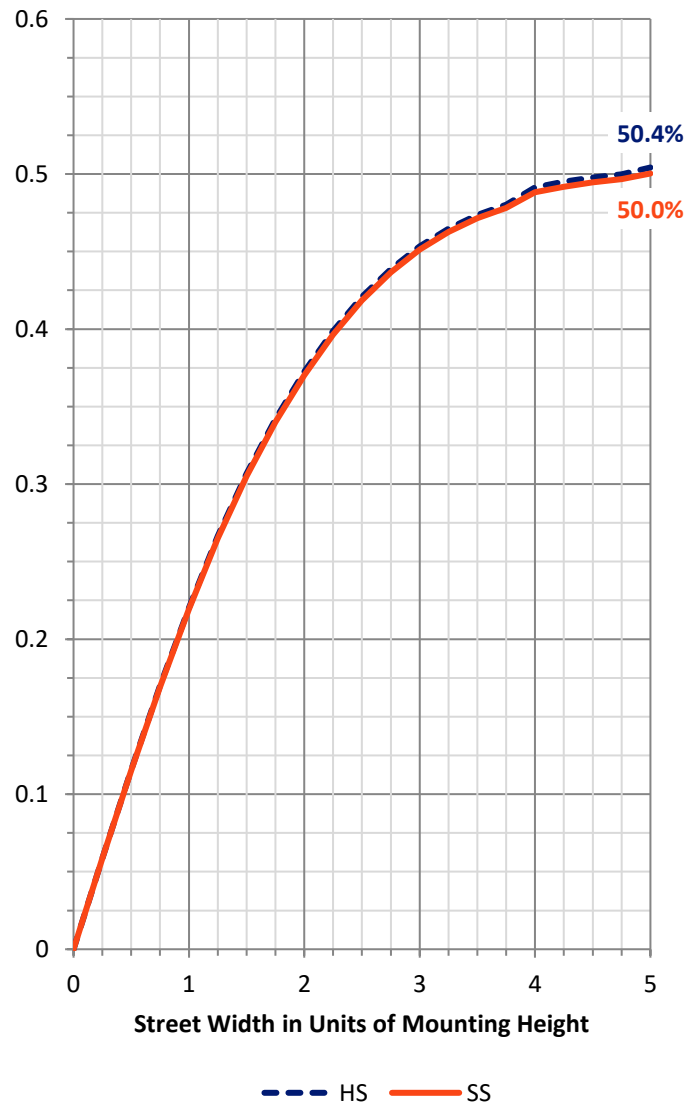
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15153.7  | 0.0    | 15153.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15153.7  | 0.0    | 15153.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30307.4  | 0.0    | 30307.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 204.9   | 0.7       |
| 10°-20°   | 622.4   | 2.1       |
| 20°-30°   | 1137.4  | 3.8       |
| 30°-40°   | 1961.1  | 6.5       |
| 40°-50°   | 3352.5  | 11.1      |
| 50°-60°   | 5434.0  | 17.9      |
| 60°-70°   | 9014.8  | 29.7      |
| 70°-80°   | 7939.9  | 26.2      |
| 80°-90°   | 640.2   | 2.1       |
| 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°    | 30307.4 | 100.0     |
| 0°-180°   | 30307.4 | 100.0     |

**Coefficient of Utilization**



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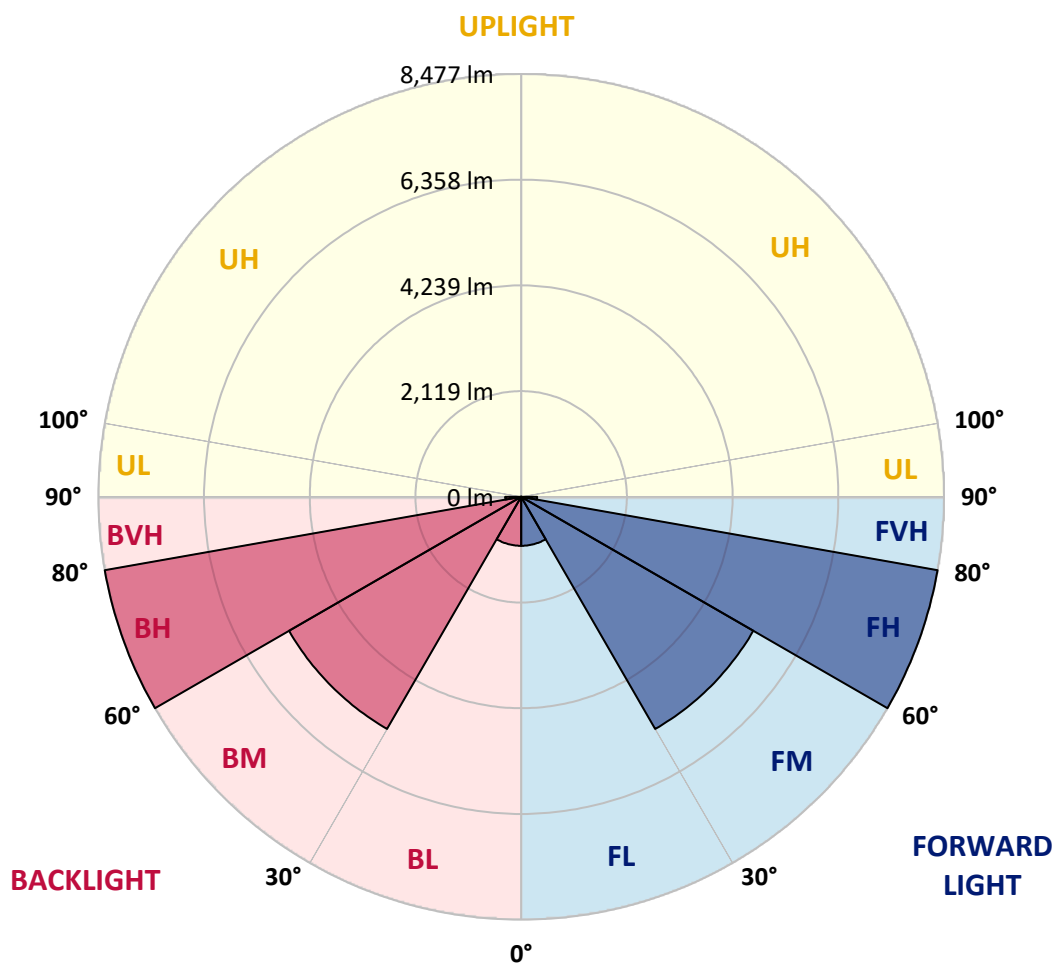
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 982.4  | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 5373.8 | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 8477.4 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 320.1  | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 982.4  | 3.2       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 5373.8 | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8477.4 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 320.1  | 1.1       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2146.3 | 2146.3 | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3  |
| 2.5°  | 2146.3 | 2147.6 | 2149.0  | 2147.6  | 2147.6  | 2146.3  | 2144.9  | 2146.3  | 2144.9  | 2142.0  | 2143.4  |
| 5°    | 2153.2 | 2156.0 | 2156.0  | 2153.2  | 2154.6  | 2153.2  | 2150.4  | 2151.8  | 2149.0  | 2144.9  | 2144.9  |
| 7.5°  | 2161.4 | 2162.9 | 2162.9  | 2160.2  | 2161.4  | 2158.8  | 2156.0  | 2154.6  | 2151.8  | 2146.3  | 2142.0  |
| 10°   | 2174.0 | 2175.5 | 2174.0  | 2171.3  | 2171.3  | 2167.0  | 2160.2  | 2157.4  | 2151.8  | 2143.4  | 2139.3  |
| 12.5° | 2187.9 | 2189.3 | 2187.9  | 2185.1  | 2183.8  | 2176.8  | 2171.3  | 2167.0  | 2162.9  | 2156.0  | 2149.0  |
| 15°   | 2207.4 | 2210.2 | 2207.4  | 2201.8  | 2197.6  | 2192.1  | 2189.3  | 2190.7  | 2192.1  | 2186.5  | 2179.6  |
| 17.5° | 2243.5 | 2245.0 | 2240.8  | 2228.3  | 2222.7  | 2217.1  | 2217.1  | 2219.9  | 2224.1  | 2221.3  | 2214.3  |
| 20°   | 2310.3 | 2306.1 | 2296.4  | 2281.2  | 2274.1  | 2264.4  | 2263.0  | 2264.4  | 2264.4  | 2263.0  | 2257.4  |
| 22.5° | 2393.7 | 2390.9 | 2378.3  | 2358.9  | 2349.2  | 2343.6  | 2335.3  | 2328.4  | 2326.9  | 2322.8  | 2317.2  |
| 25°   | 2493.8 | 2492.3 | 2477.0  | 2460.4  | 2453.4  | 2446.6  | 2439.5  | 2429.8  | 2421.5  | 2411.8  | 2406.2  |
| 27.5° | 2621.6 | 2616.1 | 2593.9  | 2585.5  | 2575.8  | 2571.6  | 2561.9  | 2550.7  | 2543.8  | 2531.3  | 2524.3  |
| 30°   | 2762.1 | 2762.1 | 2743.9  | 2741.2  | 2741.2  | 2731.5  | 2720.3  | 2700.9  | 2688.4  | 2675.9  | 2671.7  |
| 32.5° | 2902.5 | 2903.8 | 2885.7  | 2891.3  | 2895.5  | 2902.5  | 2905.2  | 2898.2  | 2889.9  | 2888.5  | 2880.2  |
| 35°   | 3105.3 | 3099.8 | 3081.7  | 3085.9  | 3084.5  | 3083.1  | 3083.1  | 3098.4  | 3101.3  | 3103.9  | 3087.3  |
| 37.5° | 3357.0 | 3357.0 | 3338.9  | 3338.9  | 3330.6  | 3322.2  | 3311.1  | 3320.8  | 3336.1  | 3340.3  | 3329.1  |
| 40°   | 3644.7 | 3654.4 | 3632.3  | 3630.8  | 3633.6  | 3607.2  | 3594.6  | 3609.9  | 3619.6  | 3636.3  | 3623.9  |
| 42.5° | 3983.9 | 3976.9 | 3954.6  | 3951.9  | 3936.6  | 3928.3  | 3917.2  | 3929.6  | 3945.0  | 3956.1  | 3960.2  |
| 45°   | 4309.1 | 4303.6 | 4278.6  | 4278.6  | 4263.3  | 4256.3  | 4261.8  | 4282.8  | 4289.7  | 4305.1  | 4320.2  |
| 47.5° | 4630.3 | 4623.3 | 4606.6  | 4613.6  | 4615.0  | 4627.4  | 4645.6  | 4665.1  | 4684.5  | 4705.4  | 4712.3  |
| 50°   | 4958.3 | 4959.8 | 4941.6  | 4958.3  | 4979.2  | 5013.9  | 5062.5  | 5094.5  | 5134.8  | 5161.3  | 5169.6  |
| 52.5° | 5257.1 | 5262.7 | 5282.1  | 5321.2  | 5362.8  | 5430.9  | 5514.4  | 5592.2  | 5658.9  | 5703.4  | 5700.6  |
| 55°   | 5615.8 | 5624.1 | 5671.4  | 5738.1  | 5806.2  | 5909.1  | 6032.9  | 6170.4  | 6281.7  | 6345.6  | 6305.3  |
| 57.5° | 6074.5 | 6092.7 | 6145.4  | 6235.8  | 6337.2  | 6470.7  | 6640.2  | 6847.4  | 7019.8  | 7105.9  | 7040.5  |
| 60°   | 6704.2 | 6715.3 | 6779.3  | 6879.4  | 7001.7  | 7167.1  | 7393.7  | 7671.6  | 7915.0  | 8028.9  | 7953.8  |
| 62.5° | 7534.1 | 7554.9 | 7606.3  | 7707.8  | 7832.9  | 8020.6  | 8297.2  | 8644.7  | 8947.8  | 9106.2  | 8936.7  |
| 65°   | 8525.2 | 8591.9 | 8635.0  | 8737.9  | 8854.6  | 9053.4  | 9342.5  | 9715.0  | 10040.4 | 10144.6 | 9948.6  |
| 67.5° | 9506.5 | 9564.9 | 9640.0  | 9758.2  | 9876.3  | 10100.2 | 10368.3 | 10729.8 | 11087.1 | 11181.6 | 10877.1 |
| 70°   | 9936.0 | 9969.5 | 10086.2 | 10247.4 | 10474.0 | 10738.1 | 11048.1 | 11453.9 | 11896.0 | 11973.9 | 11587.5 |
| 72.5° | 9075.6 | 9109.0 | 9239.6  | 9513.5  | 9908.2  | 10328.1 | 10868.8 | 11465.1 | 12049.0 | 12136.5 | 11604.1 |
| 75°   | 6864.1 | 6809.8 | 7003.1  | 7365.8  | 7898.3  | 8483.4  | 9239.6  | 10094.6 | 10938.3 | 11048.1 | 10412.9 |
| 77.5° | 3547.4 | 3540.4 | 3686.4  | 4136.8  | 4772.0  | 5437.9  | 6270.5  | 7236.6  | 8062.2  | 8395.9  | 7878.8  |
| 80°   | 999.4  | 1010.5 | 1080.0  | 1303.9  | 1675.1  | 2156.0  | 2806.6  | 3711.4  | 4387.0  | 4731.7  | 4442.6  |
| 82.5° | 392.0  | 422.7  | 448.9   | 490.7   | 539.3   | 610.2   | 814.5   | 1212.1  | 1626.4  | 1943.2  | 1591.6  |
| 85°   | 140.4  | 150.1  | 212.7   | 251.7   | 255.7   | 269.7   | 307.2   | 358.6   | 432.3   | 515.7   | 423.9   |
| 87.5° | 52.8   | 58.4   | 68.1    | 112.6   | 111.2   | 101.5   | 123.7   | 129.3   | 97.4    | 88.9    | 109.8   |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°    | 80°    | 85°    | 90°    |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2146.3  | 2146.3  | 2146.3  | 2146.3  | 2146.3 | 2146.3 | 2146.3 | 2146.3 |
| 2.5°  | 2140.7  | 2142.0  | 2142.0  | 2143.4  | 2144.9 | 2144.9 | 2147.6 | 2147.6 |
| 5°    | 2142.0  | 2142.0  | 2139.3  | 2140.7  | 2139.3 | 2139.3 | 2140.7 | 2140.7 |
| 7.5°  | 2139.3  | 2137.8  | 2135.2  | 2133.8  | 2131.0 | 2131.0 | 2131.0 | 2131.0 |
| 10°   | 2135.2  | 2133.8  | 2131.0  | 2129.6  | 2128.2 | 2128.2 | 2128.2 | 2128.2 |
| 12.5° | 2146.3  | 2142.0  | 2139.3  | 2137.8  | 2137.8 | 2137.8 | 2137.8 | 2137.8 |
| 15°   | 2175.5  | 2165.7  | 2158.8  | 2158.8  | 2160.2 | 2162.9 | 2162.9 | 2165.7 |
| 17.5° | 2211.5  | 2200.5  | 2193.5  | 2187.9  | 2190.7 | 2194.9 | 2197.6 | 2200.5 |
| 20°   | 2254.7  | 2249.1  | 2239.4  | 2233.8  | 2233.8 | 2239.4 | 2242.1 | 2243.5 |
| 22.5° | 2314.4  | 2310.3  | 2306.1  | 2299.2  | 2299.2 | 2301.9 | 2307.4 | 2307.4 |
| 25°   | 2403.3  | 2400.7  | 2397.8  | 2392.2  | 2390.9 | 2390.9 | 2393.7 | 2396.5 |
| 27.5° | 2514.6  | 2516.0  | 2513.2  | 2511.9  | 2507.6 | 2506.3 | 2510.4 | 2509.0 |
| 30°   | 2663.3  | 2670.3  | 2677.3  | 2671.7  | 2664.8 | 2660.6 | 2656.4 | 2650.8 |
| 32.5° | 2864.9  | 2856.6  | 2851.0  | 2841.3  | 2828.7 | 2817.6 | 2809.3 | 2799.5 |
| 35°   | 3055.3  | 3041.4  | 3035.9  | 3044.2  | 3042.9 | 3035.9 | 3026.2 | 3017.8 |
| 37.5° | 3288.8  | 3286.1  | 3288.8  | 3304.1  | 3301.4 | 3308.4 | 3288.8 | 3287.5 |
| 40°   | 3583.6  | 3586.3  | 3605.8  | 3623.9  | 3633.6 | 3643.4 | 3632.3 | 3621.1 |
| 42.5° | 3925.4  | 3924.1  | 3931.0  | 3956.1  | 3972.7 | 3983.9 | 3960.2 | 3957.5 |
| 45°   | 4286.9  | 4277.2  | 4282.8  | 4303.6  | 4320.2 | 4332.7 | 4306.4 | 4306.4 |
| 47.5° | 4684.5  | 4667.8  | 4649.7  | 4673.3  | 4683.1 | 4691.4 | 4670.7 | 4663.6 |
| 50°   | 5127.9  | 5093.1  | 5054.3  | 5063.9  | 5063.9 | 5061.2 | 5034.7 | 5033.3 |
| 52.5° | 5636.6  | 5572.7  | 5501.9  | 5475.4  | 5460.1 | 5443.4 | 5397.5 | 5375.3 |
| 55°   | 6221.9  | 6125.9  | 6014.7  | 5946.7  | 5910.5 | 5864.6 | 5788.1 | 5767.4 |
| 57.5° | 6905.7  | 6755.6  | 6563.9  | 6480.3  | 6399.8 | 6324.7 | 6239.9 | 6216.3 |
| 60°   | 7716.2  | 7495.1  | 7240.7  | 7086.4  | 6998.9 | 6926.6 | 6839.1 | 6834.8 |
| 62.5° | 8619.7  | 8270.8  | 7983.0  | 7844.0  | 7780.2 | 7716.2 | 7632.8 | 7643.9 |
| 65°   | 9538.6  | 9174.3  | 8904.6  | 8792.1  | 8732.3 | 8679.4 | 8596.1 | 8608.5 |
| 67.5° | 10444.8 | 10109.9 | 9813.7  | 9698.4  | 9631.6 | 9564.9 | 9489.8 | 9502.4 |
| 70°   | 11095.4 | 10679.8 | 10346.1 | 10090.4 | 9930.5 | 9749.9 | 9633.1 | 9603.9 |
| 72.5° | 10909.1 | 10268.3 | 9738.8  | 9231.4  | 8933.8 | 8692.0 | 8527.9 | 8457.1 |
| 75°   | 9441.2  | 8565.5  | 7884.3  | 7261.6  | 6911.3 | 6626.3 | 6419.2 | 6289.9 |
| 77.5° | 7011.3  | 6027.3  | 5222.4  | 4505.2  | 3938.0 | 3557.2 | 3288.8 | 3115.1 |
| 80°   | 3838.0  | 2919.1  | 2133.8  | 1499.9  | 1102.3 | 916.0  | 808.9  | 757.6  |
| 82.5° | 1195.4  | 771.5   | 568.4   | 490.7   | 455.9  | 436.5  | 404.5  | 353.1  |
| 85°   | 380.9   | 333.6   | 310.0   | 296.1   | 282.2  | 246.1  | 169.6  | 154.3  |
| 87.5° | 147.4   | 151.6   | 150.1   | 141.8   | 144.5  | 104.3  | 83.4   | 73.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)