

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: P192733

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19378.2 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 162  
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



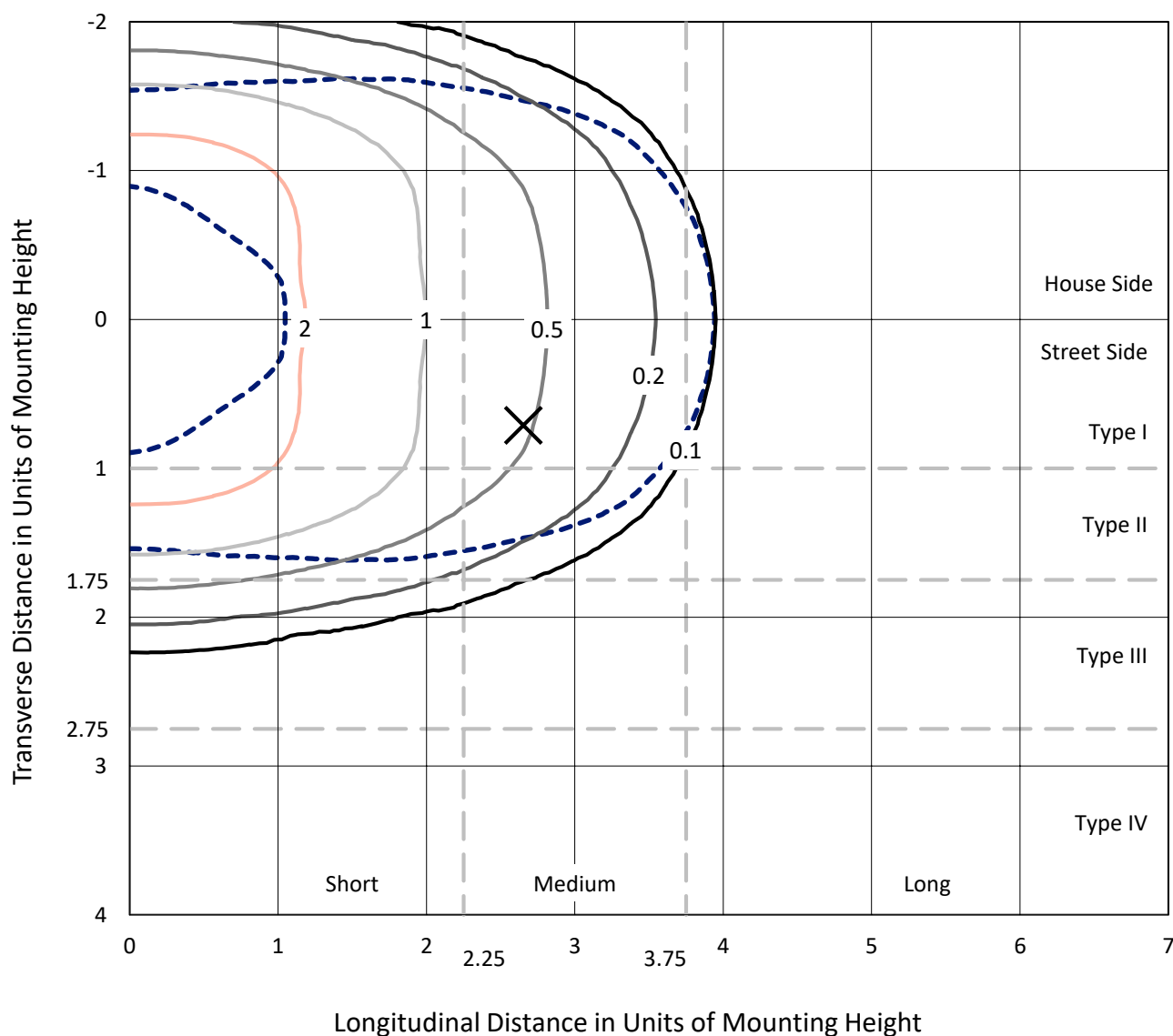
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

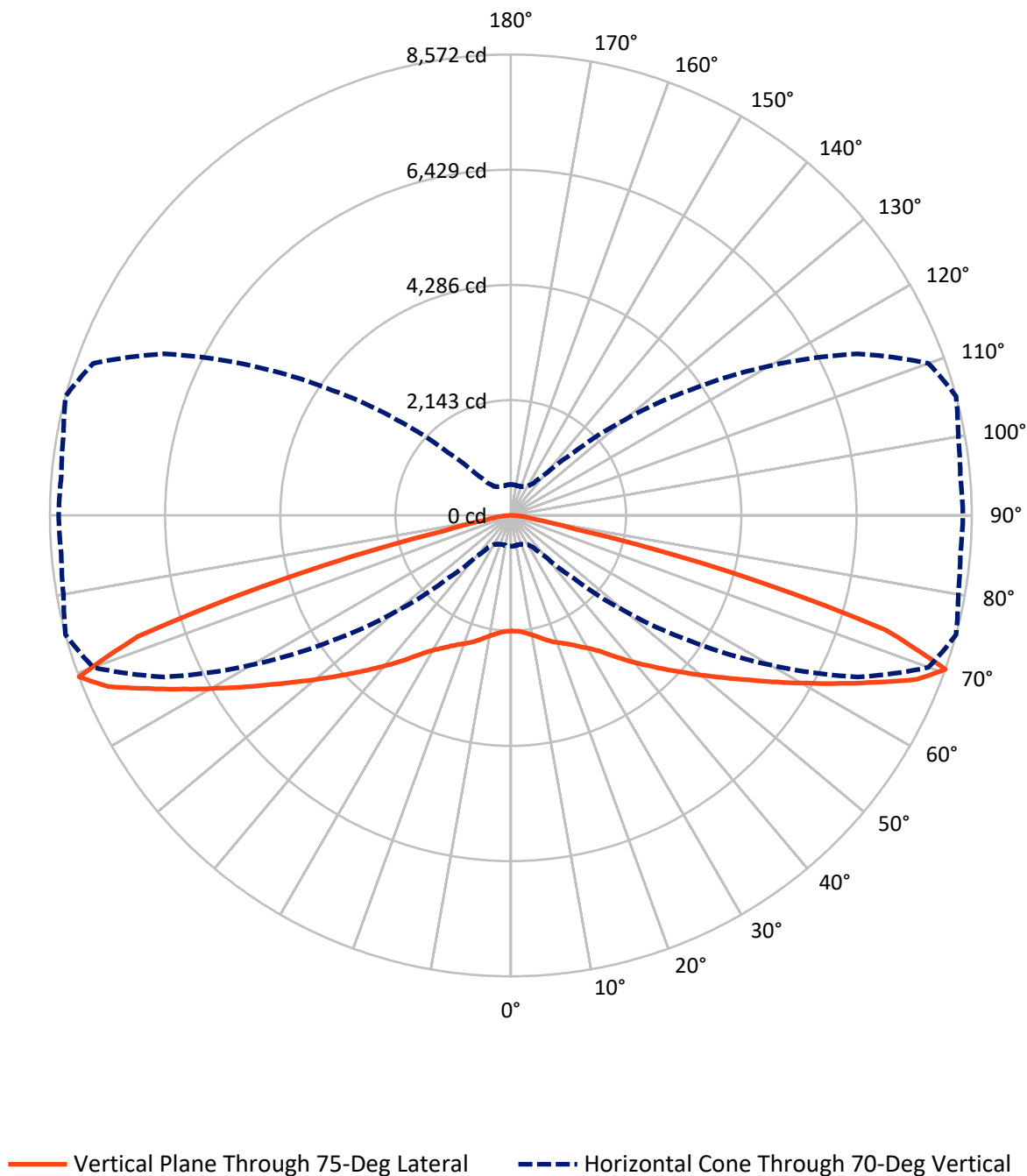


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9689.1   | 0.0    | 9689.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9689.1   | 0.0    | 9689.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19378.2  | 0.0    | 19378.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.2   | 1.1       |
| 10°-20°   | 640.6   | 3.3       |
| 20°-30°   | 1205.6  | 6.2       |
| 30°-40°   | 2134.9  | 11.0      |
| 40°-50°   | 3570.3  | 18.4      |
| 50°-60°   | 4975.2  | 25.7      |
| 60°-70°   | 4613.6  | 23.8      |
| 70°-80°   | 1838.7  | 9.5       |
| 80°-90°   | 193.3   | 1.0       |
| 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°    | 19378.2 | 100.0     |
| 0°-180°   | 19378.2 | 100.0     |

**Coefficient of Utilization**



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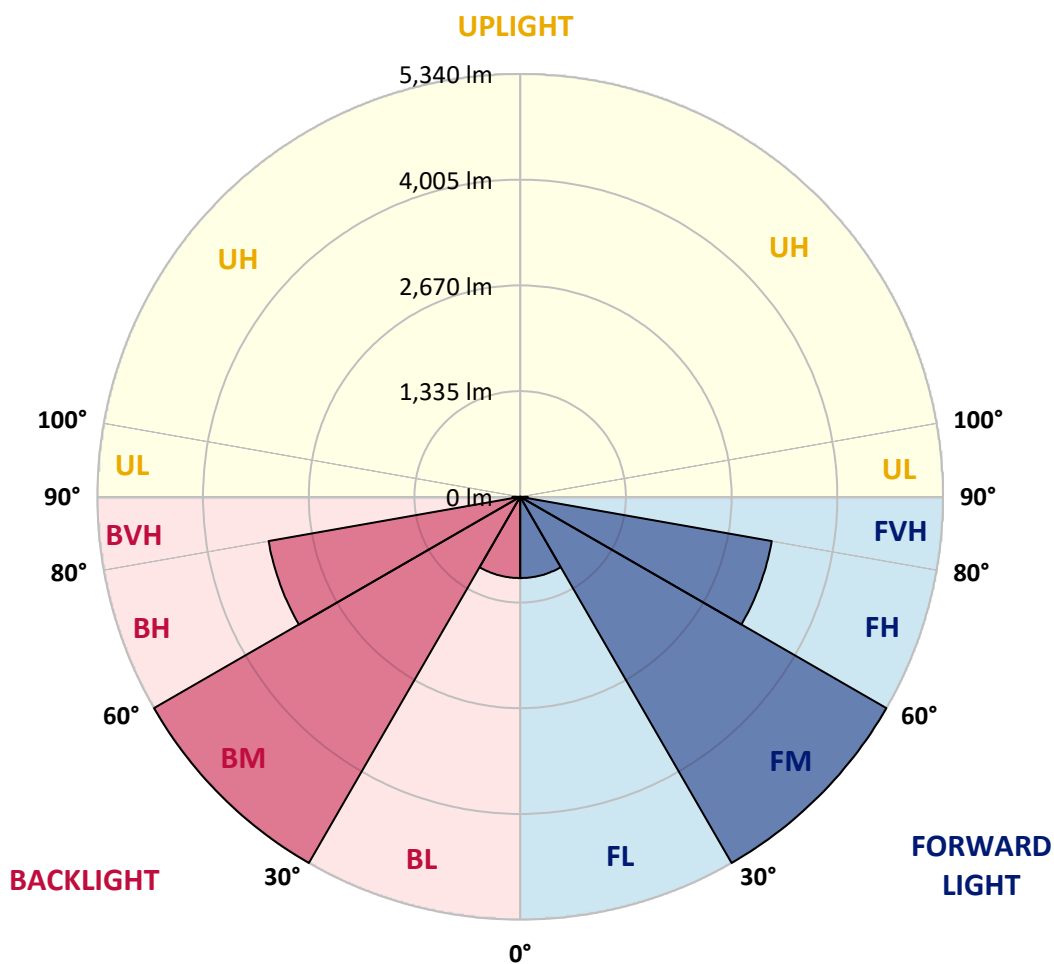
CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1026.2 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 5340.2 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 3226.2 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 96.6   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1026.2 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5340.2 | 27.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3226.2 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 96.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 |
| 2.5°  | 2145.9 | 2144.0 | 2145.9 | 2144.9 | 2146.7 | 2146.7 | 2148.6 | 2152.3 | 2152.3 | 2155.0 | 2154.0 |
| 5°    | 2124.8 | 2123.9 | 2126.6 | 2129.4 | 2132.0 | 2137.5 | 2143.1 | 2151.4 | 2157.8 | 2162.3 | 2166.9 |
| 7.5°  | 2083.6 | 2083.6 | 2087.2 | 2093.6 | 2100.1 | 2112.0 | 2124.8 | 2141.3 | 2157.8 | 2171.5 | 2183.4 |
| 10°   | 2049.7 | 2051.5 | 2056.0 | 2067.0 | 2078.1 | 2096.3 | 2113.7 | 2137.5 | 2160.5 | 2183.4 | 2201.7 |
| 12.5° | 2029.5 | 2032.2 | 2040.5 | 2057.1 | 2075.3 | 2100.1 | 2126.6 | 2156.8 | 2182.5 | 2210.0 | 2228.3 |
| 15°   | 2035.9 | 2037.8 | 2049.7 | 2069.8 | 2093.6 | 2124.8 | 2160.5 | 2196.2 | 2226.3 | 2255.7 | 2280.5 |
| 17.5° | 2071.7 | 2074.4 | 2088.2 | 2111.0 | 2135.8 | 2172.4 | 2210.9 | 2251.2 | 2288.7 | 2321.6 | 2352.0 |
| 20°   | 2135.8 | 2138.5 | 2155.9 | 2180.6 | 2210.0 | 2247.5 | 2285.9 | 2328.1 | 2370.3 | 2405.1 | 2438.8 |
| 22.5° | 2226.3 | 2231.0 | 2247.5 | 2272.3 | 2305.2 | 2345.5 | 2391.2 | 2436.2 | 2476.5 | 2508.5 | 2538.7 |
| 25°   | 2345.5 | 2355.5 | 2371.2 | 2398.6 | 2433.4 | 2470.1 | 2519.5 | 2565.3 | 2603.7 | 2634.0 | 2656.0 |
| 27.5° | 2514.0 | 2527.7 | 2539.6 | 2566.2 | 2600.1 | 2634.9 | 2684.4 | 2724.6 | 2761.3 | 2790.6 | 2807.1 |
| 30°   | 2737.5 | 2751.2 | 2763.1 | 2788.8 | 2819.9 | 2852.9 | 2899.5 | 2935.2 | 2958.2 | 2981.1 | 2980.1 |
| 32.5° | 3008.6 | 3023.2 | 3027.8 | 3055.2 | 3087.3 | 3123.0 | 3165.1 | 3185.4 | 3203.6 | 3206.4 | 3190.0 |
| 35°   | 3311.7 | 3319.1 | 3337.4 | 3374.0 | 3410.6 | 3439.9 | 3480.2 | 3490.3 | 3490.3 | 3476.5 | 3439.9 |
| 37.5° | 3644.2 | 3648.7 | 3674.4 | 3715.6 | 3753.2 | 3783.3 | 3810.9 | 3830.9 | 3820.9 | 3791.7 | 3730.2 |
| 40°   | 4008.7 | 4016.9 | 4053.5 | 4090.2 | 4132.3 | 4160.7 | 4190.0 | 4193.7 | 4183.6 | 4140.6 | 4057.3 |
| 42.5° | 4356.7 | 4364.1 | 4400.6 | 4458.4 | 4513.3 | 4552.8 | 4580.1 | 4585.6 | 4553.6 | 4514.3 | 4410.7 |
| 45°   | 4656.2 | 4675.4 | 4723.1 | 4790.8 | 4870.4 | 4926.4 | 4963.8 | 4979.5 | 4951.1 | 4899.8 | 4779.8 |
| 47.5° | 4893.4 | 4912.7 | 4980.4 | 5061.0 | 5159.9 | 5250.6 | 5312.8 | 5345.8 | 5338.5 | 5300.0 | 5169.0 |
| 50°   | 5067.3 | 5085.7 | 5159.0 | 5257.9 | 5373.3 | 5485.9 | 5592.2 | 5670.9 | 5698.4 | 5681.1 | 5561.1 |
| 52.5° | 5087.5 | 5117.8 | 5203.8 | 5336.7 | 5486.9 | 5640.7 | 5791.9 | 5925.5 | 6016.3 | 6029.9 | 5941.1 |
| 55°   | 4806.5 | 4836.6 | 4955.7 | 5152.5 | 5376.0 | 5627.0 | 5868.8 | 6094.1 | 6272.7 | 6364.3 | 6317.5 |
| 57.5° | 4143.3 | 4197.3 | 4322.9 | 4553.6 | 4882.4 | 5257.9 | 5643.5 | 6043.6 | 6407.3 | 6649.9 | 6696.7 |
| 60°   | 3175.3 | 3239.3 | 3365.7 | 3611.2 | 3977.6 | 4425.3 | 4940.0 | 5531.7 | 6173.7 | 6719.6 | 7045.6 |
| 62.5° | 2036.8 | 2097.3 | 2230.1 | 2443.5 | 2742.1 | 3227.4 | 3779.8 | 4482.2 | 5344.9 | 6206.7 | 6983.3 |
| 65°   | 1046.8 | 1079.8 | 1149.4 | 1278.6 | 1511.2 | 1873.8 | 2369.3 | 3069.9 | 4056.2 | 5119.6 | 6242.4 |
| 67.5° | 663.1  | 669.4  | 685.0  | 703.4  | 762.8  | 888.4  | 1119.2 | 1556.1 | 2367.4 | 3476.5 | 4790.8 |
| 70°   | 573.3  | 573.3  | 566.0  | 563.2  | 570.6  | 588.0  | 623.7  | 725.4  | 999.1  | 1650.4 | 2763.1 |
| 72.5° | 524.8  | 519.3  | 506.4  | 496.4  | 494.5  | 494.5  | 501.9  | 517.5  | 561.4  | 672.3  | 1081.6 |
| 75°   | 483.6  | 467.9  | 450.5  | 438.6  | 434.1  | 429.5  | 428.7  | 431.3  | 440.6  | 457.9  | 516.6  |
| 77.5° | 433.2  | 413.0  | 392.9  | 381.0  | 375.6  | 369.1  | 363.7  | 357.2  | 352.6  | 358.1  | 383.7  |
| 80°   | 372.8  | 349.8  | 334.4  | 326.9  | 321.4  | 312.3  | 300.4  | 289.4  | 279.3  | 277.5  | 293.1  |
| 82.5° | 300.4  | 273.8  | 274.8  | 277.5  | 267.4  | 254.6  | 241.8  | 229.9  | 212.5  | 203.3  | 212.5  |
| 85°   | 242.7  | 229.0  | 222.6  | 240.0  | 225.3  | 206.1  | 186.0  | 164.9  | 137.3  | 115.4  | 125.4  |
| 87.5° | 94.3   | 94.3   | 141.1  | 217.1  | 195.0  | 159.4  | 136.5  | 116.4  | 72.3   | 55.8   | 56.9   |
| 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°    | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 | 2149.4 |
| 2.5°  | 2153.2 | 2155.0 | 2154.0 | 2153.2 | 2153.2 | 2152.3 | 2153.2 | 2153.2 |
| 5°    | 2169.7 | 2174.3 | 2174.3 | 2176.0 | 2176.0 | 2177.0 | 2177.9 | 2177.0 |
| 7.5°  | 2194.4 | 2202.6 | 2208.1 | 2214.5 | 2215.4 | 2216.4 | 2218.2 | 2216.4 |
| 10°   | 2219.0 | 2235.6 | 2247.5 | 2259.4 | 2265.0 | 2266.7 | 2268.5 | 2268.5 |
| 12.5° | 2250.2 | 2273.1 | 2294.2 | 2315.3 | 2325.4 | 2330.8 | 2330.8 | 2334.6 |
| 15°   | 2301.5 | 2324.4 | 2349.2 | 2377.6 | 2395.0 | 2404.1 | 2406.9 | 2406.9 |
| 17.5° | 2373.8 | 2394.0 | 2415.0 | 2442.6 | 2464.6 | 2476.5 | 2479.2 | 2478.3 |
| 20°   | 2458.2 | 2477.4 | 2489.3 | 2506.6 | 2525.8 | 2539.6 | 2543.3 | 2543.3 |
| 22.5° | 2554.3 | 2565.3 | 2567.1 | 2572.6 | 2588.2 | 2606.5 | 2614.8 | 2616.5 |
| 25°   | 2660.6 | 2663.3 | 2656.0 | 2656.0 | 2666.0 | 2683.4 | 2691.7 | 2692.5 |
| 27.5° | 2797.9 | 2784.2 | 2765.9 | 2759.5 | 2765.9 | 2786.0 | 2796.1 | 2799.8 |
| 30°   | 2969.2 | 2936.3 | 2894.1 | 2871.3 | 2867.5 | 2894.1 | 2912.5 | 2915.1 |
| 32.5° | 3165.1 | 3117.5 | 3061.7 | 3015.0 | 3003.1 | 3019.6 | 3041.6 | 3040.5 |
| 35°   | 3397.8 | 3341.0 | 3273.2 | 3213.8 | 3186.2 | 3202.7 | 3233.8 | 3237.6 |
| 37.5° | 3666.2 | 3592.0 | 3514.1 | 3439.1 | 3396.0 | 3400.5 | 3433.5 | 3444.5 |
| 40°   | 3965.7 | 3869.4 | 3771.4 | 3670.7 | 3609.4 | 3597.5 | 3637.8 | 3644.2 |
| 42.5° | 4286.1 | 4162.6 | 4038.9 | 3914.3 | 3835.5 | 3817.3 | 3864.0 | 3861.2 |
| 45°   | 4627.7 | 4470.3 | 4325.6 | 4188.1 | 4094.7 | 4067.2 | 4105.8 | 4105.8 |
| 47.5° | 4995.0 | 4800.9 | 4628.7 | 4473.0 | 4371.4 | 4331.9 | 4368.6 | 4371.4 |
| 50°   | 5384.3 | 5178.3 | 4975.7 | 4802.7 | 4680.8 | 4630.5 | 4678.2 | 4685.5 |
| 52.5° | 5771.7 | 5571.1 | 5367.0 | 5169.0 | 5021.5 | 4960.3 | 5015.2 | 5039.0 |
| 55°   | 6164.6 | 5967.6 | 5772.6 | 5579.4 | 5404.4 | 5332.1 | 5390.7 | 5420.9 |
| 57.5° | 6579.5 | 6397.2 | 6211.3 | 6016.3 | 5847.7 | 5735.0 | 5797.3 | 5837.6 |
| 60°   | 7065.8 | 6910.1 | 6716.8 | 6501.6 | 6331.2 | 6216.8 | 6252.5 | 6288.2 |
| 62.5° | 7450.4 | 7510.9 | 7346.9 | 7097.8 | 6879.0 | 6732.4 | 6767.2 | 6804.7 |
| 65°   | 7264.5 | 7884.5 | 8030.1 | 7778.2 | 7475.2 | 7247.0 | 7232.4 | 7251.6 |
| 67.5° | 6072.1 | 7276.4 | 8154.7 | 8394.7 | 8141.0 | 7824.0 | 7765.5 | 7793.9 |
| 70°   | 4061.8 | 5562.0 | 7111.5 | 8265.6 | 8572.4 | 8449.6 | 8391.8 | 8409.3 |
| 72.5° | 1950.8 | 3239.3 | 4824.7 | 6358.8 | 7292.9 | 7721.6 | 7858.9 | 7925.7 |
| 75°   | 713.5  | 1285.9 | 2325.4 | 3504.1 | 4230.3 | 4897.0 | 5332.1 | 5509.7 |
| 77.5° | 430.5  | 519.3  | 742.8  | 1118.3 | 1266.7 | 1417.7 | 1359.0 | 1388.4 |
| 80°   | 318.7  | 359.9  | 407.5  | 457.9  | 474.4  | 474.4  | 456.0  | 441.4  |
| 82.5° | 223.4  | 249.9  | 272.9  | 300.4  | 307.7  | 294.0  | 241.8  | 192.3  |
| 85°   | 143.7  | 155.7  | 165.7  | 183.1  | 178.6  | 170.3  | 114.5  | 101.6  |
| 87.5° | 66.0   | 75.1   | 78.7   | 87.0   | 83.4   | 79.6   | 56.9   | 47.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)