

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: P192751

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192751  
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-03-LED-E1-RW-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17965.5 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

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

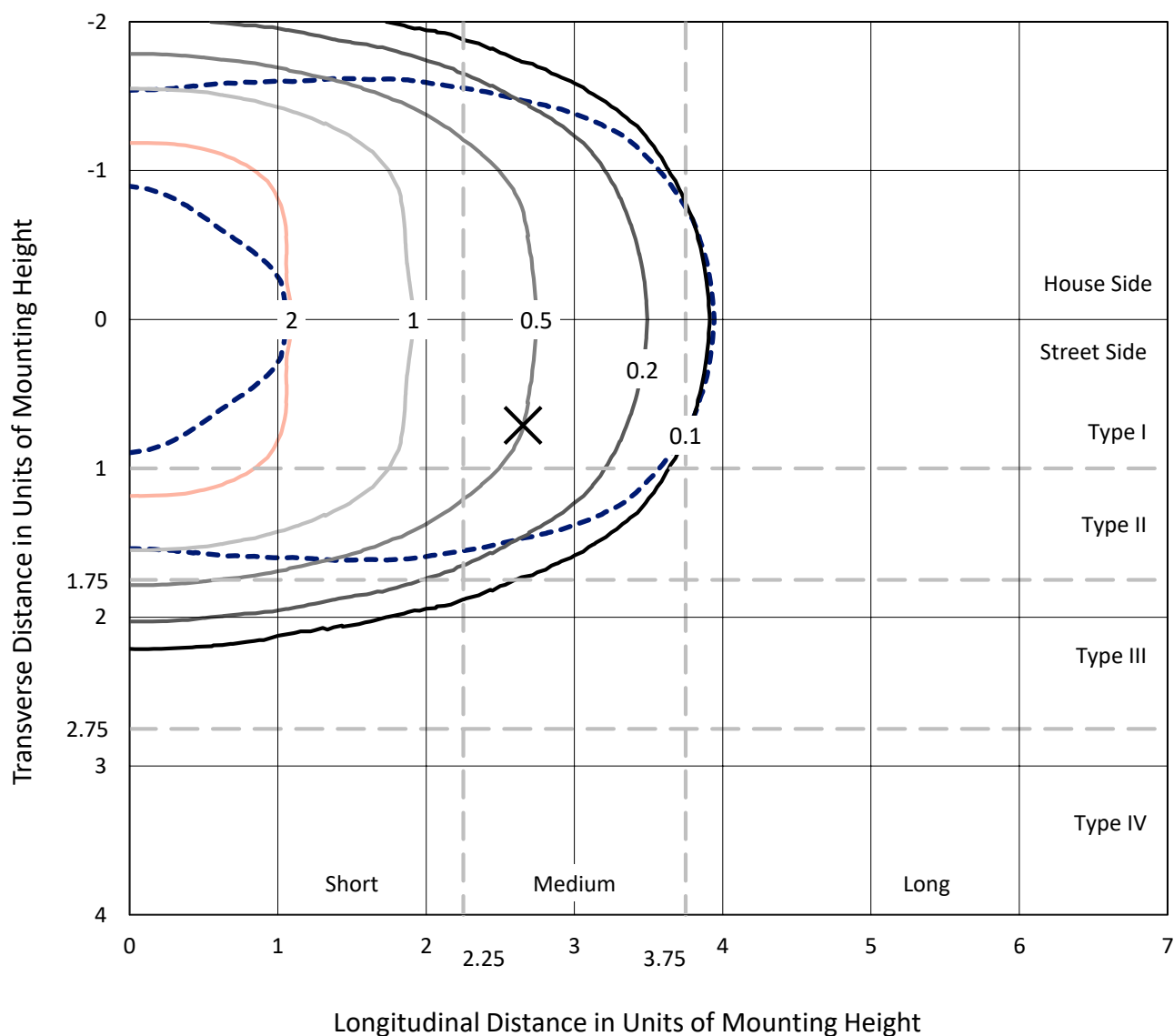


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

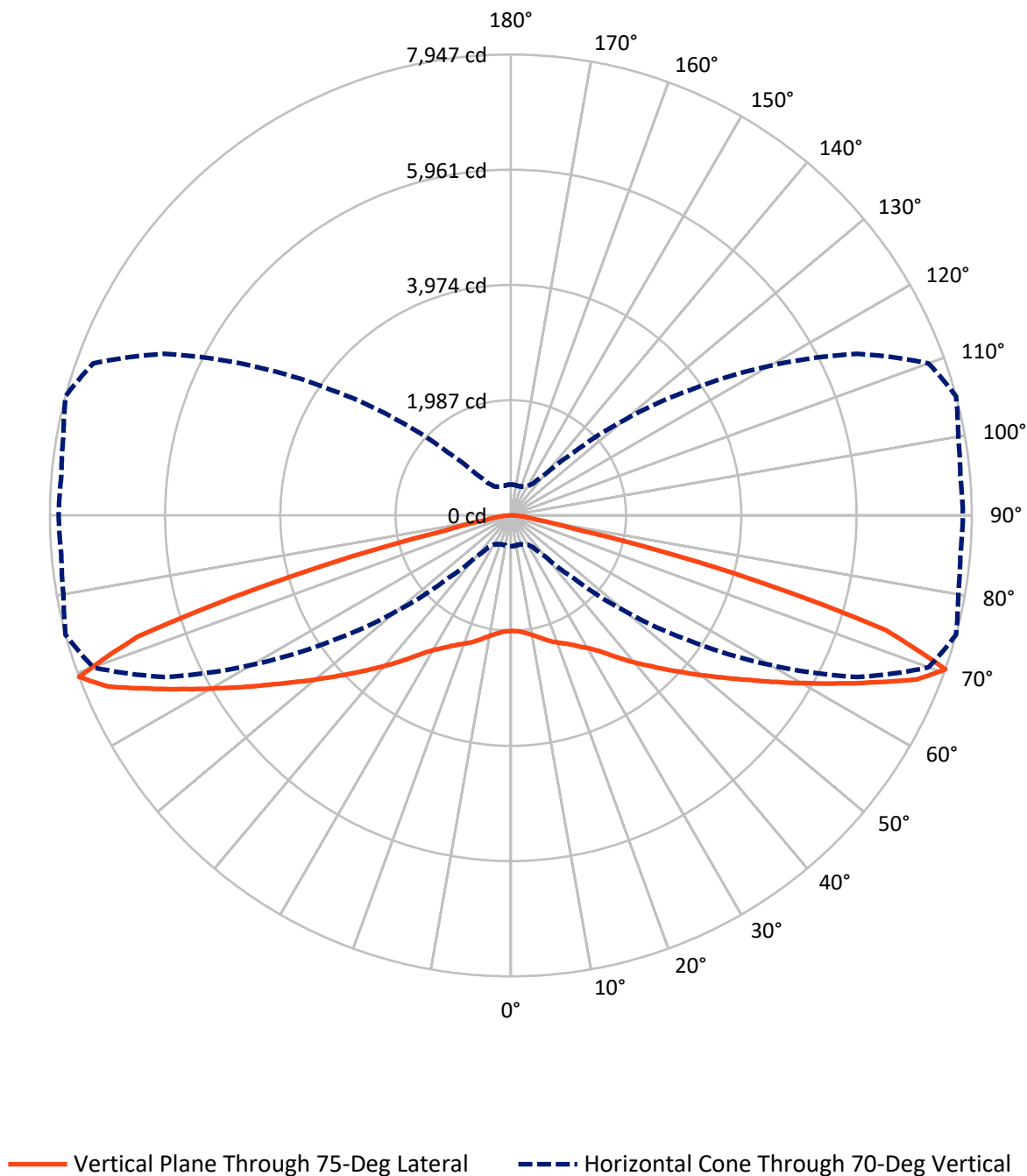


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8982.7   | 0.0    | 8982.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8982.7   | 0.0    | 8982.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17965.5  | 0.0    | 17965.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 191.1   | 1.1       |
| 10°-20°   | 593.9   | 3.3       |
| 20°-30°   | 1117.7  | 6.2       |
| 30°-40°   | 1979.3  | 11.0      |
| 40°-50°   | 3310.0  | 18.4      |
| 50°-60°   | 4612.4  | 25.7      |
| 60°-70°   | 4277.3  | 23.8      |
| 70°-80°   | 1704.6  | 9.5       |
| 80°-90°   | 179.2   | 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°    | 17965.5 | 100.0     |
| 0°-180°   | 17965.5 | 100.0     |

**Coefficient of Utilization**



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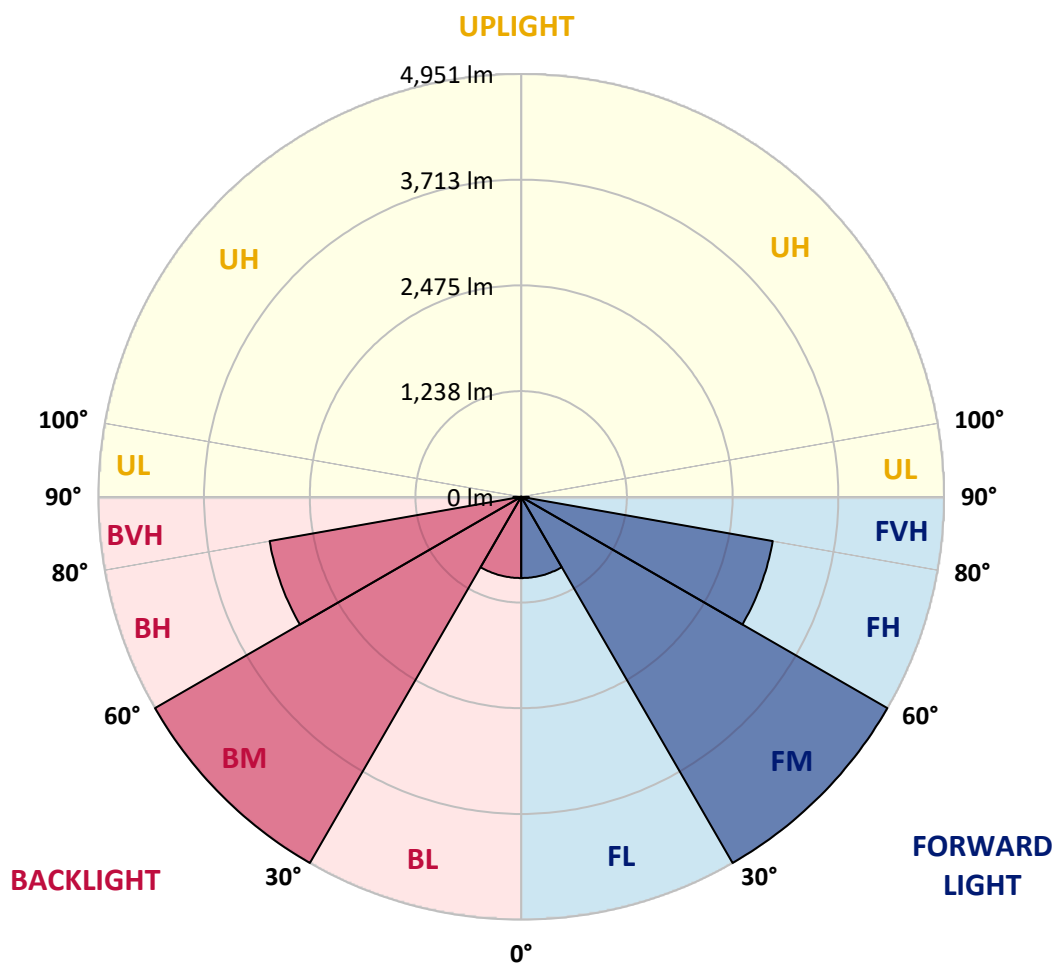
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 951.3  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 4950.8 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 2991.0 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 89.6   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 951.3  | 5.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4950.8 | 27.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2991.0 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 89.6   | 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°    | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5°  | 1989.4 | 1987.7 | 1989.4 | 1988.5 | 1990.2 | 1990.2 | 1991.9 | 1995.3 | 1995.3 | 1998.0 | 1997.0 |
| 5°    | 1969.8 | 1969.1 | 1971.6 | 1974.1 | 1976.6 | 1981.8 | 1986.9 | 1994.5 | 2000.4 | 2004.7 | 2009.0 |
| 7.5°  | 1931.7 | 1931.7 | 1935.1 | 1941.0 | 1946.9 | 1957.9 | 1969.8 | 1985.1 | 2000.4 | 2013.2 | 2024.2 |
| 10°   | 1900.2 | 1901.9 | 1906.1 | 1916.4 | 1926.6 | 1943.5 | 1959.7 | 1981.8 | 2002.9 | 2024.2 | 2041.2 |
| 12.5° | 1881.6 | 1884.0 | 1891.8 | 1907.0 | 1924.0 | 1946.9 | 1971.6 | 1999.6 | 2023.4 | 2048.8 | 2065.8 |
| 15°   | 1887.5 | 1889.2 | 1900.2 | 1918.9 | 1941.0 | 1969.8 | 2002.9 | 2036.0 | 2064.1 | 2091.3 | 2114.1 |
| 17.5° | 1920.7 | 1923.2 | 1935.8 | 1957.2 | 1980.1 | 2013.9 | 2049.7 | 2087.1 | 2121.9 | 2152.4 | 2180.5 |
| 20°   | 1980.1 | 1982.6 | 1998.8 | 2021.7 | 2048.8 | 2083.7 | 2119.3 | 2158.4 | 2197.4 | 2229.7 | 2261.1 |
| 22.5° | 2064.1 | 2068.4 | 2083.7 | 2106.5 | 2137.1 | 2174.5 | 2217.0 | 2258.6 | 2295.9 | 2325.6 | 2353.7 |
| 25°   | 2174.5 | 2183.9 | 2198.3 | 2223.8 | 2255.9 | 2290.0 | 2335.9 | 2378.2 | 2414.0 | 2442.0 | 2462.3 |
| 27.5° | 2330.7 | 2343.5 | 2354.5 | 2379.1 | 2410.6 | 2442.8 | 2488.7 | 2526.0 | 2560.0 | 2587.2 | 2602.4 |
| 30°   | 2537.9 | 2550.6 | 2561.7 | 2585.4 | 2614.3 | 2644.8 | 2688.3 | 2721.3 | 2742.5 | 2763.7 | 2762.9 |
| 32.5° | 2789.3 | 2802.8 | 2807.1 | 2832.5 | 2862.3 | 2895.4 | 2934.3 | 2953.1 | 2970.1 | 2972.6 | 2957.3 |
| 35°   | 3070.3 | 3077.1 | 3094.0 | 3128.0 | 3162.0 | 3189.2 | 3226.5 | 3235.8 | 3235.8 | 3223.1 | 3189.2 |
| 37.5° | 3378.6 | 3382.7 | 3406.4 | 3444.7 | 3479.6 | 3507.6 | 3533.0 | 3551.7 | 3542.4 | 3515.2 | 3458.3 |
| 40°   | 3716.5 | 3724.1 | 3758.1 | 3792.0 | 3831.0 | 3857.4 | 3884.5 | 3888.0 | 3878.6 | 3838.8 | 3761.5 |
| 42.5° | 4039.1 | 4045.9 | 4079.8 | 4133.3 | 4184.3 | 4220.8 | 4246.3 | 4251.4 | 4221.7 | 4185.0 | 4089.1 |
| 45°   | 4316.8 | 4334.6 | 4378.7 | 4441.5 | 4515.3 | 4567.2 | 4602.0 | 4616.4 | 4590.1 | 4542.6 | 4431.3 |
| 47.5° | 4536.7 | 4554.5 | 4617.3 | 4692.0 | 4783.7 | 4867.8 | 4925.5 | 4956.1 | 4949.3 | 4913.6 | 4792.2 |
| 50°   | 4697.9 | 4715.0 | 4782.9 | 4874.6 | 4981.5 | 5086.0 | 5184.5 | 5257.5 | 5283.0 | 5266.9 | 5155.6 |
| 52.5° | 4716.6 | 4744.7 | 4824.5 | 4947.6 | 5086.9 | 5229.4 | 5369.5 | 5493.5 | 5577.5 | 5590.4 | 5508.0 |
| 55°   | 4456.0 | 4484.0 | 4594.4 | 4777.0 | 4984.1 | 5216.8 | 5440.9 | 5649.8 | 5815.4 | 5900.2 | 5857.0 |
| 57.5° | 3841.2 | 3891.4 | 4007.6 | 4221.7 | 4526.5 | 4874.6 | 5232.0 | 5603.1 | 5940.2 | 6165.2 | 6208.4 |
| 60°   | 2943.8 | 3003.2 | 3120.3 | 3347.9 | 3687.6 | 4102.8 | 4579.9 | 5128.4 | 5723.6 | 6229.8 | 6531.9 |
| 62.5° | 1888.3 | 1944.4 | 2067.5 | 2265.4 | 2542.1 | 2992.2 | 3504.2 | 4155.3 | 4955.2 | 5754.2 | 6474.2 |
| 65°   | 970.6  | 1001.1 | 1065.6 | 1185.4 | 1401.0 | 1737.2 | 2196.5 | 2846.1 | 3760.6 | 4746.3 | 5787.4 |
| 67.5° | 614.7  | 620.7  | 635.2  | 652.1  | 707.2  | 823.6  | 1037.5 | 1442.5 | 2194.9 | 3223.1 | 4441.5 |
| 70°   | 531.5  | 531.5  | 524.8  | 522.1  | 529.0  | 545.1  | 578.2  | 672.5  | 926.3  | 1530.0 | 2561.7 |
| 72.5° | 486.5  | 481.4  | 469.6  | 460.2  | 458.5  | 458.5  | 465.3  | 479.7  | 520.5  | 623.3  | 1002.8 |
| 75°   | 448.3  | 433.9  | 417.7  | 406.7  | 402.5  | 398.2  | 397.3  | 399.9  | 408.4  | 424.6  | 478.9  |
| 77.5° | 401.6  | 383.0  | 364.3  | 353.2  | 348.1  | 342.2  | 337.1  | 331.2  | 326.9  | 332.0  | 355.7  |
| 80°   | 345.6  | 324.4  | 310.0  | 303.0  | 298.1  | 289.5  | 278.5  | 268.3  | 259.0  | 257.3  | 271.7  |
| 82.5° | 278.5  | 253.9  | 254.7  | 257.3  | 247.9  | 236.0  | 224.2  | 213.2  | 197.0  | 188.5  | 197.0  |
| 85°   | 225.0  | 212.3  | 206.3  | 222.5  | 208.9  | 191.1  | 172.4  | 152.9  | 127.4  | 107.0  | 116.4  |
| 87.5° | 87.4   | 87.4   | 130.8  | 201.2  | 180.9  | 147.7  | 126.5  | 107.8  | 67.0   | 51.8   | 52.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5°  | 1996.1 | 1998.0 | 1997.0 | 1996.1 | 1996.1 | 1995.3 | 1996.1 | 1996.1 |
| 5°    | 2011.5 | 2015.8 | 2015.8 | 2017.4 | 2017.4 | 2018.2 | 2019.1 | 2018.2 |
| 7.5°  | 2034.4 | 2042.0 | 2047.1 | 2053.1 | 2054.0 | 2054.7 | 2056.5 | 2054.7 |
| 10°   | 2057.4 | 2072.6 | 2083.7 | 2094.7 | 2099.8 | 2101.5 | 2103.1 | 2103.1 |
| 12.5° | 2086.2 | 2107.4 | 2127.0 | 2146.5 | 2155.8 | 2160.9 | 2160.9 | 2164.3 |
| 15°   | 2133.8 | 2154.9 | 2177.9 | 2204.2 | 2220.3 | 2228.9 | 2231.4 | 2231.4 |
| 17.5° | 2200.8 | 2219.5 | 2239.0 | 2264.5 | 2284.8 | 2295.9 | 2298.5 | 2297.6 |
| 20°   | 2278.9 | 2296.7 | 2307.8 | 2324.0 | 2341.8 | 2354.5 | 2358.0 | 2358.0 |
| 22.5° | 2368.0 | 2378.2 | 2380.0 | 2385.0 | 2399.6 | 2416.5 | 2424.1 | 2425.8 |
| 25°   | 2466.5 | 2469.2 | 2462.3 | 2462.3 | 2471.7 | 2487.9 | 2495.5 | 2496.2 |
| 27.5° | 2594.0 | 2581.2 | 2564.2 | 2558.3 | 2564.2 | 2582.9 | 2592.2 | 2595.7 |
| 30°   | 2752.7 | 2722.2 | 2683.1 | 2661.9 | 2658.5 | 2683.1 | 2700.2 | 2702.6 |
| 32.5° | 2934.3 | 2890.2 | 2838.4 | 2795.2 | 2784.2 | 2799.4 | 2819.8 | 2819.0 |
| 35°   | 3150.1 | 3097.5 | 3034.5 | 2979.4 | 2954.0 | 2969.2 | 2998.1 | 3001.5 |
| 37.5° | 3398.8 | 3330.1 | 3257.9 | 3188.3 | 3148.5 | 3152.6 | 3183.2 | 3193.4 |
| 40°   | 3676.6 | 3587.4 | 3496.6 | 3403.1 | 3346.2 | 3335.1 | 3372.5 | 3378.6 |
| 42.5° | 3973.6 | 3859.0 | 3744.5 | 3628.9 | 3556.0 | 3539.0 | 3582.3 | 3579.8 |
| 45°   | 4290.4 | 4144.3 | 4010.3 | 3882.8 | 3796.2 | 3770.7 | 3806.5 | 3806.5 |
| 47.5° | 4630.9 | 4450.9 | 4291.2 | 4146.9 | 4052.7 | 4016.2 | 4050.1 | 4052.7 |
| 50°   | 4991.7 | 4800.8 | 4613.0 | 4452.6 | 4339.7 | 4292.9 | 4337.1 | 4343.9 |
| 52.5° | 5350.9 | 5165.0 | 4975.6 | 4792.2 | 4655.5 | 4598.6 | 4649.5 | 4671.6 |
| 55°   | 5715.2 | 5532.6 | 5351.7 | 5172.6 | 5010.4 | 4943.3 | 4997.7 | 5025.7 |
| 57.5° | 6099.8 | 5930.8 | 5758.5 | 5577.5 | 5421.3 | 5317.0 | 5374.7 | 5412.0 |
| 60°   | 6550.6 | 6406.3 | 6227.1 | 6027.7 | 5869.7 | 5763.5 | 5796.6 | 5829.7 |
| 62.5° | 6907.3 | 6963.3 | 6811.3 | 6580.3 | 6377.5 | 6241.6 | 6273.8 | 6308.6 |
| 65°   | 6735.0 | 7309.8 | 7444.7 | 7211.2 | 6930.2 | 6718.8 | 6705.2 | 6723.0 |
| 67.5° | 5629.4 | 6746.0 | 7560.2 | 7782.6 | 7547.5 | 7253.7 | 7199.3 | 7225.7 |
| 70°   | 3765.6 | 5156.5 | 6593.1 | 7663.0 | 7947.4 | 7833.7 | 7780.2 | 7796.3 |
| 72.5° | 1808.6 | 3003.2 | 4473.0 | 5895.2 | 6761.2 | 7158.5 | 7286.0 | 7347.9 |
| 75°   | 661.4  | 1192.1 | 2155.8 | 3248.6 | 3921.9 | 4540.0 | 4943.3 | 5108.1 |
| 77.5° | 399.1  | 481.4  | 688.6  | 1036.8 | 1174.3 | 1314.4 | 1260.1 | 1287.2 |
| 80°   | 295.4  | 333.7  | 377.8  | 424.6  | 439.9  | 439.9  | 422.9  | 409.2  |
| 82.5° | 207.1  | 231.8  | 253.1  | 278.5  | 285.2  | 272.6  | 224.2  | 178.3  |
| 85°   | 133.3  | 144.3  | 153.7  | 169.8  | 165.5  | 157.9  | 106.1  | 94.3   |
| 87.5° | 61.1   | 69.6   | 72.9   | 80.7   | 77.2   | 73.9   | 52.7   | 44.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)