

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: P193568

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193568  
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-10-LED-E1-RW-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53910 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 640  
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

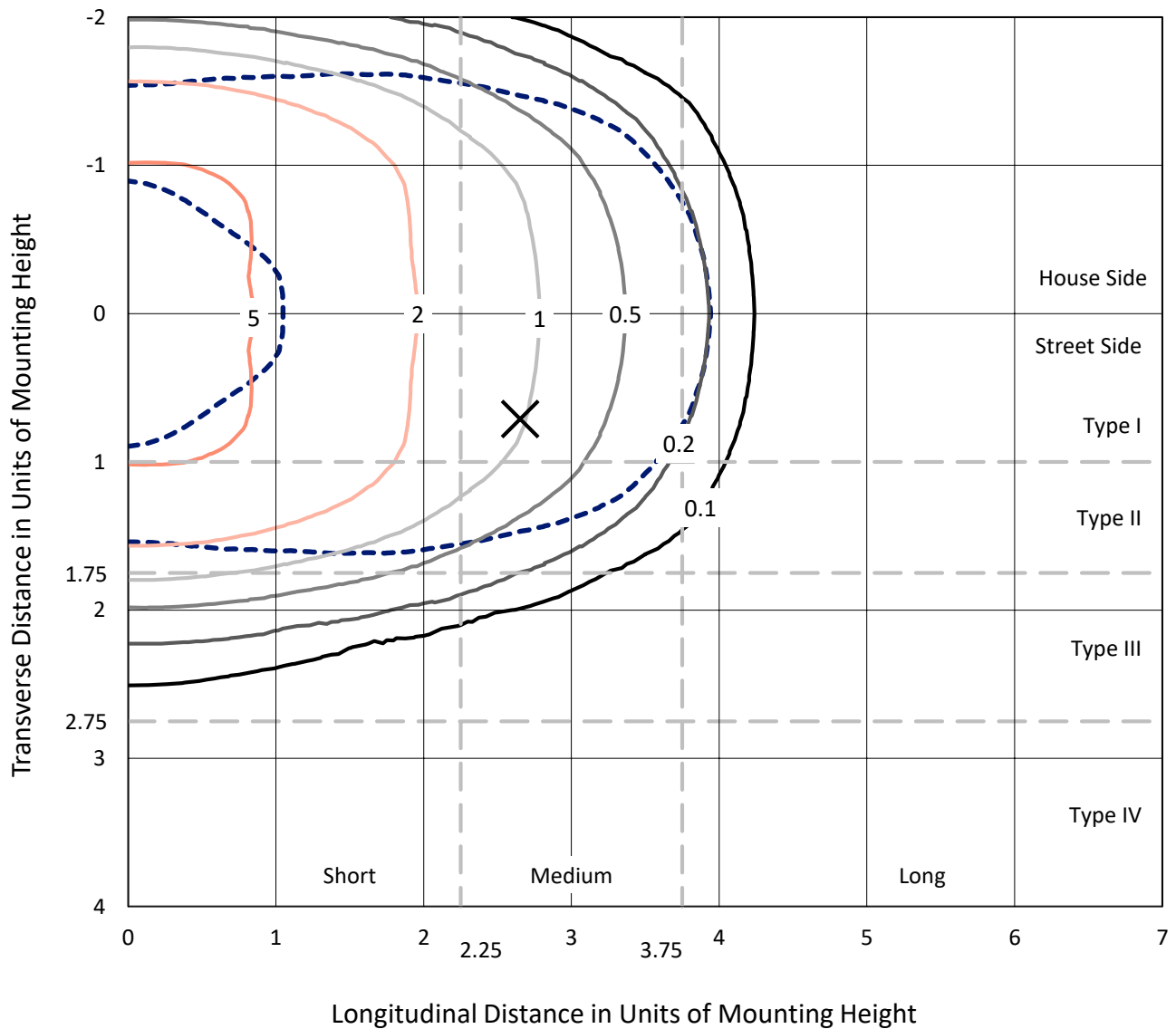


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

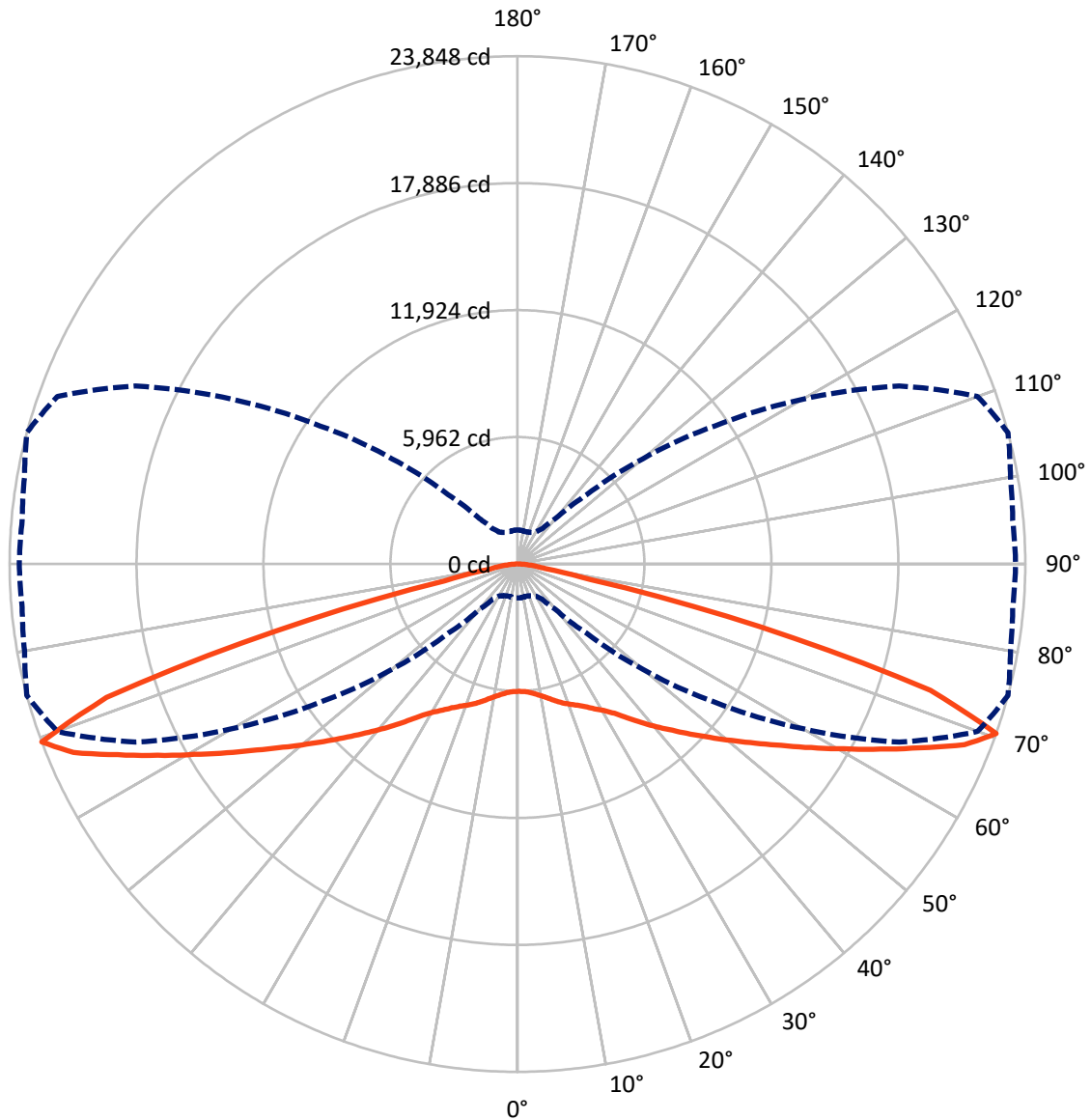


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 26955.0  | 0.0    | 26955.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 26955.0  | 0.0    | 26955.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 53910.0  | 0.0    | 53910.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 573.5   | 1.1       |
| 10°-20°   | 1782.0  | 3.3       |
| 20°-30°   | 3354.0  | 6.2       |
| 30°-40°   | 5939.3  | 11.0      |
| 40°-50°   | 9932.4  | 18.4      |
| 50°-60°   | 13840.8 | 25.7      |
| 60°-70°   | 12835.1 | 23.8      |
| 70°-80°   | 5115.2  | 9.5       |
| 80°-90°   | 537.7   | 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°    | 53910.0 | 100.0     |
| 0°-180°   | 53910.0 | 100.0     |



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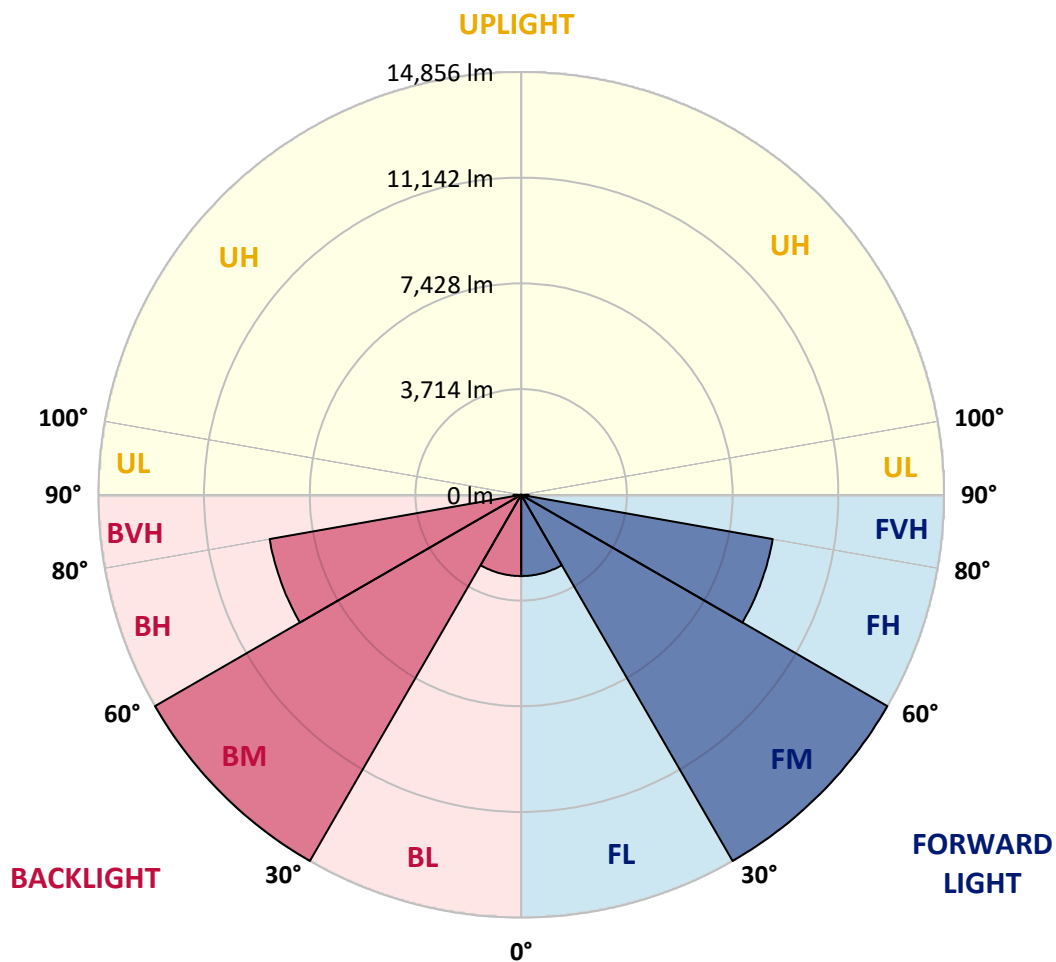
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2854.8  | 5.3       |                         |      |          |
| FM   | (30°-60°)   | 14856.3 | 27.6      |                         |      |          |
| FH   | (60°-80°)   | 8975.2  | 16.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 268.8   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2854.8  | 5.3       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 14856.3 | 27.6      | B5                      |      |          |
| BH   | (60°-80°)   | 8975.2  | 16.6      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 268.8   | 0.5       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  |
| 2.5°  | 5969.7  | 5964.6  | 5969.7  | 5967.1  | 5972.2  | 5972.2  | 5977.3  | 5987.5  | 5987.5  | 5995.2  | 5992.6  |
| 5°    | 5911.1  | 5908.5  | 5916.2  | 5923.8  | 5931.5  | 5946.8  | 5962.0  | 5985.0  | 6002.8  | 6015.5  | 6028.3  |
| 7.5°  | 5796.4  | 5796.4  | 5806.6  | 5824.5  | 5842.3  | 5875.4  | 5911.1  | 5956.9  | 6002.8  | 6041.0  | 6074.1  |
| 10°   | 5702.2  | 5707.3  | 5720.0  | 5750.6  | 5781.1  | 5832.1  | 5880.5  | 5946.8  | 6010.4  | 6074.1  | 6125.1  |
| 12.5° | 5646.1  | 5653.7  | 5676.7  | 5722.5  | 5773.5  | 5842.3  | 5916.2  | 6000.3  | 6071.6  | 6148.0  | 6199.0  |
| 15°   | 5663.9  | 5669.0  | 5702.2  | 5758.2  | 5824.5  | 5911.1  | 6010.4  | 6109.8  | 6193.9  | 6275.4  | 6344.2  |
| 17.5° | 5763.3  | 5770.9  | 5809.2  | 5872.9  | 5941.7  | 6043.6  | 6150.6  | 6262.7  | 6367.2  | 6458.9  | 6543.0  |
| 20°   | 5941.7  | 5949.3  | 5997.7  | 6066.5  | 6148.0  | 6252.5  | 6359.5  | 6476.7  | 6593.9  | 6690.7  | 6785.0  |
| 22.5° | 6193.9  | 6206.6  | 6252.5  | 6321.3  | 6413.0  | 6525.1  | 6652.5  | 6777.4  | 6889.5  | 6978.6  | 7062.7  |
| 25°   | 6525.1  | 6553.1  | 6596.5  | 6672.9  | 6769.7  | 6871.6  | 7009.2  | 7136.6  | 7243.6  | 7327.7  | 7388.9  |
| 27.5° | 6993.9  | 7032.1  | 7065.3  | 7139.2  | 7233.4  | 7330.3  | 7467.8  | 7579.9  | 7681.9  | 7763.4  | 7809.3  |
| 30°   | 7615.6  | 7653.8  | 7687.0  | 7758.3  | 7844.9  | 7936.6  | 8066.6  | 8166.0  | 8229.7  | 8293.4  | 8290.8  |
| 32.5° | 8369.8  | 8410.6  | 8423.3  | 8499.7  | 8588.9  | 8688.3  | 8805.5  | 8861.5  | 8912.5  | 8920.1  | 8874.3  |
| 35°   | 9213.1  | 9233.5  | 9284.5  | 9386.4  | 9488.3  | 9569.8  | 9681.9  | 9710.0  | 9710.0  | 9671.8  | 9569.8  |
| 37.5° | 10138.0 | 10150.8 | 10222.1 | 10336.8 | 10441.2 | 10525.3 | 10601.7 | 10657.8 | 10629.8 | 10548.2 | 10377.5 |
| 40°   | 11152.1 | 11175.0 | 11276.9 | 11378.8 | 11496.0 | 11575.0 | 11656.6 | 11666.7 | 11638.7 | 11519.0 | 11287.1 |
| 42.5° | 12120.3 | 12140.7 | 12242.6 | 12403.1 | 12556.0 | 12665.5 | 12741.9 | 12757.2 | 12668.1 | 12558.5 | 12270.6 |
| 45°   | 12953.4 | 13006.9 | 13139.4 | 13328.0 | 13549.6 | 13705.0 | 13809.5 | 13852.8 | 13773.8 | 13631.2 | 13297.4 |
| 47.5° | 13613.3 | 13666.8 | 13855.4 | 14079.6 | 14354.8 | 14607.0 | 14780.3 | 14872.0 | 14851.6 | 14744.6 | 14380.2 |
| 50°   | 14097.4 | 14148.4 | 14352.2 | 14627.4 | 14948.4 | 15261.8 | 15557.4 | 15776.5 | 15852.9 | 15804.5 | 15470.7 |
| 52.5° | 14153.5 | 14237.6 | 14477.1 | 14846.5 | 15264.4 | 15692.4 | 16112.8 | 16484.8 | 16737.0 | 16775.2 | 16528.1 |
| 55°   | 13371.3 | 13455.4 | 13786.6 | 14334.4 | 14956.1 | 15654.2 | 16326.8 | 16953.6 | 17450.4 | 17705.2 | 17575.3 |
| 57.5° | 11526.6 | 11676.9 | 12026.0 | 12668.1 | 13582.8 | 14627.4 | 15700.0 | 16813.5 | 17825.0 | 18500.2 | 18630.1 |
| 60°   | 8833.5  | 9011.9  | 9363.5  | 10046.3 | 11065.4 | 12311.4 | 13743.3 | 15389.2 | 17175.3 | 18693.8 | 19600.8 |
| 62.5° | 5666.5  | 5834.6  | 6204.1  | 6797.7  | 7628.4  | 8978.7  | 10515.1 | 12469.3 | 14869.4 | 17267.0 | 19427.6 |
| 65°   | 2912.2  | 3004.0  | 3197.6  | 3556.8  | 4204.0  | 5213.0  | 6591.4  | 8540.5  | 11284.6 | 14242.7 | 17366.4 |
| 67.5° | 1844.7  | 1862.5  | 1905.8  | 1956.8  | 2122.4  | 2471.4  | 3113.5  | 4328.8  | 6586.3  | 9671.8  | 13328.0 |
| 70°   | 1595.0  | 1595.0  | 1574.6  | 1566.9  | 1587.3  | 1635.7  | 1735.1  | 2017.9  | 2779.7  | 4591.3  | 7687.0  |
| 72.5° | 1459.9  | 1444.6  | 1409.0  | 1381.0  | 1375.9  | 1375.9  | 1396.2  | 1439.6  | 1561.9  | 1870.1  | 3009.0  |
| 75°   | 1345.3  | 1302.0  | 1253.6  | 1220.4  | 1207.7  | 1195.0  | 1192.4  | 1200.1  | 1225.5  | 1273.9  | 1437.0  |
| 77.5° | 1205.1  | 1149.1  | 1093.0  | 1059.9  | 1044.6  | 1026.8  | 1011.5  | 993.7   | 980.9   | 996.2   | 1067.6  |
| 80°   | 1037.0  | 973.3   | 930.0   | 909.6   | 894.3   | 868.8   | 835.7   | 805.1   | 777.1   | 772.0   | 815.3   |
| 82.5° | 835.7   | 761.8   | 764.4   | 772.0   | 744.0   | 708.3   | 672.6   | 639.5   | 591.1   | 565.6   | 591.1   |
| 85°   | 675.2   | 637.0   | 619.1   | 667.5   | 626.8   | 573.3   | 517.2   | 458.6   | 382.2   | 321.0   | 349.1   |
| 87.5° | 262.4   | 262.4   | 392.4   | 603.8   | 542.7   | 443.3   | 379.6   | 323.6   | 201.3   | 155.4   | 158.0   |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  | 5979.9  |
| 2.5°  | 5990.1  | 5995.2  | 5992.6  | 5990.1  | 5990.1  | 5987.5  | 5990.1  | 5990.1  |
| 5°    | 6035.9  | 6048.7  | 6048.7  | 6053.8  | 6053.8  | 6056.3  | 6058.9  | 6056.3  |
| 7.5°  | 6104.7  | 6127.7  | 6142.9  | 6160.8  | 6163.3  | 6165.9  | 6171.0  | 6165.9  |
| 10°   | 6173.5  | 6219.4  | 6252.5  | 6285.6  | 6300.9  | 6306.0  | 6311.1  | 6311.1  |
| 12.5° | 6260.1  | 6323.8  | 6382.4  | 6441.0  | 6469.1  | 6484.4  | 6484.4  | 6494.5  |
| 15°   | 6402.8  | 6466.5  | 6535.3  | 6614.3  | 6662.7  | 6688.2  | 6695.8  | 6695.8  |
| 17.5° | 6604.1  | 6660.2  | 6718.8  | 6795.2  | 6856.3  | 6889.5  | 6897.1  | 6894.6  |
| 20°   | 6838.5  | 6892.0  | 6925.1  | 6973.5  | 7027.1  | 7065.3  | 7075.5  | 7075.5  |
| 22.5° | 7106.0  | 7136.6  | 7141.7  | 7157.0  | 7200.3  | 7251.3  | 7274.2  | 7279.3  |
| 25°   | 7401.6  | 7409.2  | 7388.9  | 7388.9  | 7416.9  | 7465.3  | 7488.2  | 7490.8  |
| 27.5° | 7783.8  | 7745.6  | 7694.6  | 7676.8  | 7694.6  | 7750.7  | 7778.7  | 7788.9  |
| 30°   | 8260.2  | 8168.5  | 8051.3  | 7987.6  | 7977.4  | 8051.3  | 8102.3  | 8109.9  |
| 32.5° | 8805.5  | 8673.0  | 8517.6  | 8387.6  | 8354.5  | 8400.4  | 8461.5  | 8459.0  |
| 35°   | 9452.6  | 9294.7  | 9106.1  | 8940.5  | 8864.1  | 8909.9  | 8996.6  | 9006.8  |
| 37.5° | 10199.2 | 9992.8  | 9776.2  | 9567.3  | 9447.5  | 9460.3  | 9552.0  | 9582.6  |
| 40°   | 11032.3 | 10764.8 | 10492.2 | 10211.9 | 10041.2 | 10008.1 | 10120.2 | 10138.0 |
| 42.5° | 11924.1 | 11580.1 | 11236.2 | 10889.6 | 10670.5 | 10619.6 | 10749.5 | 10741.9 |
| 45°   | 12874.4 | 12436.2 | 12033.6 | 11651.5 | 11391.6 | 11315.1 | 11422.1 | 11422.1 |
| 47.5° | 13896.1 | 13356.0 | 12877.0 | 12443.8 | 12161.0 | 12051.5 | 12153.4 | 12161.0 |
| 50°   | 14979.0 | 14405.7 | 13842.6 | 13361.1 | 13022.2 | 12882.1 | 13014.6 | 13035.0 |
| 52.5° | 16056.7 | 15498.8 | 14930.6 | 14380.2 | 13970.0 | 13799.3 | 13952.2 | 14018.4 |
| 55°   | 17149.8 | 16602.0 | 16059.3 | 15521.7 | 15035.0 | 14833.8 | 14996.8 | 15080.9 |
| 57.5° | 18304.0 | 17796.9 | 17279.7 | 16737.0 | 16268.2 | 15954.8 | 16128.1 | 16240.2 |
| 60°   | 19656.9 | 19223.8 | 18686.2 | 18087.4 | 17613.5 | 17295.0 | 17394.4 | 17493.7 |
| 62.5° | 20727.0 | 20895.2 | 20439.1 | 19746.1 | 19137.1 | 18729.5 | 18826.3 | 18930.8 |
| 65°   | 20209.8 | 21934.7 | 22339.8 | 21639.1 | 20795.8 | 20161.4 | 20120.6 | 20174.1 |
| 67.5° | 16892.4 | 20242.9 | 22686.3 | 23353.9 | 22648.1 | 21766.5 | 21603.5 | 21682.5 |
| 70°   | 11299.8 | 15473.3 | 19784.3 | 22994.6 | 23848.2 | 23506.7 | 23346.2 | 23394.6 |
| 72.5° | 5427.0  | 9011.9  | 13422.2 | 17689.9 | 20288.8 | 21481.2 | 21863.4 | 22049.4 |
| 75°   | 1984.8  | 3577.2  | 6469.1  | 9748.2  | 11768.7 | 13623.5 | 14833.8 | 15328.0 |
| 77.5° | 1197.5  | 1444.6  | 2066.3  | 3111.0  | 3523.7  | 3944.1  | 3781.1  | 3862.6  |
| 80°   | 886.7   | 1001.3  | 1133.8  | 1273.9  | 1319.8  | 1319.8  | 1268.8  | 1228.1  |
| 82.5° | 621.7   | 695.6   | 759.3   | 835.7   | 856.1   | 817.9   | 672.6   | 535.1   |
| 85°   | 400.0   | 433.1   | 461.2   | 509.6   | 496.8   | 473.9   | 318.5   | 282.8   |
| 87.5° | 183.4   | 208.9   | 219.1   | 242.0   | 231.9   | 221.7   | 158.0   | 132.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)