

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: STREETWORKS

Report Number: P268894

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-AFL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34599.2 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 323  
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: 28.75 FT

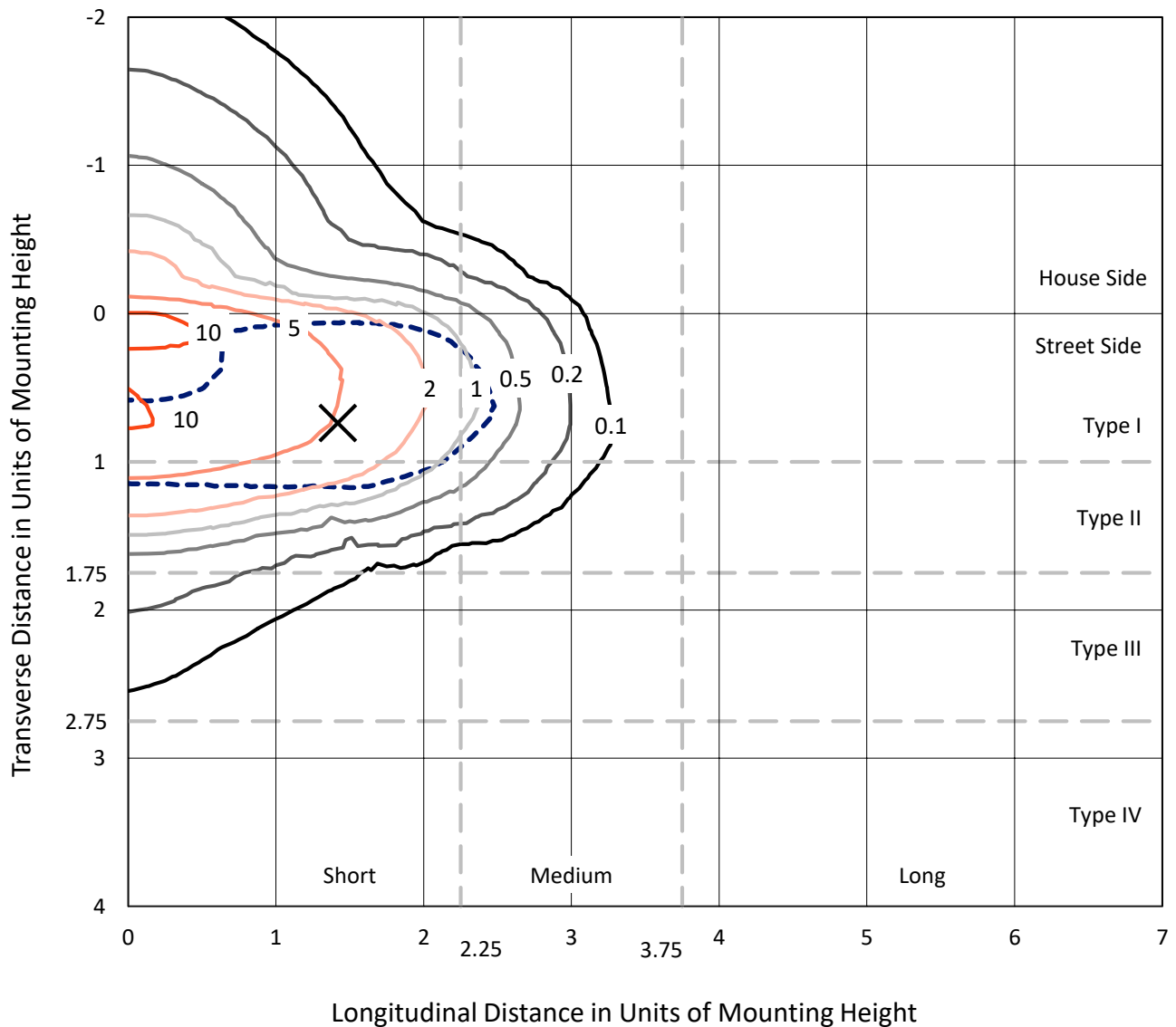


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### Iso-Footcandle Lines of Horizontal Illumination

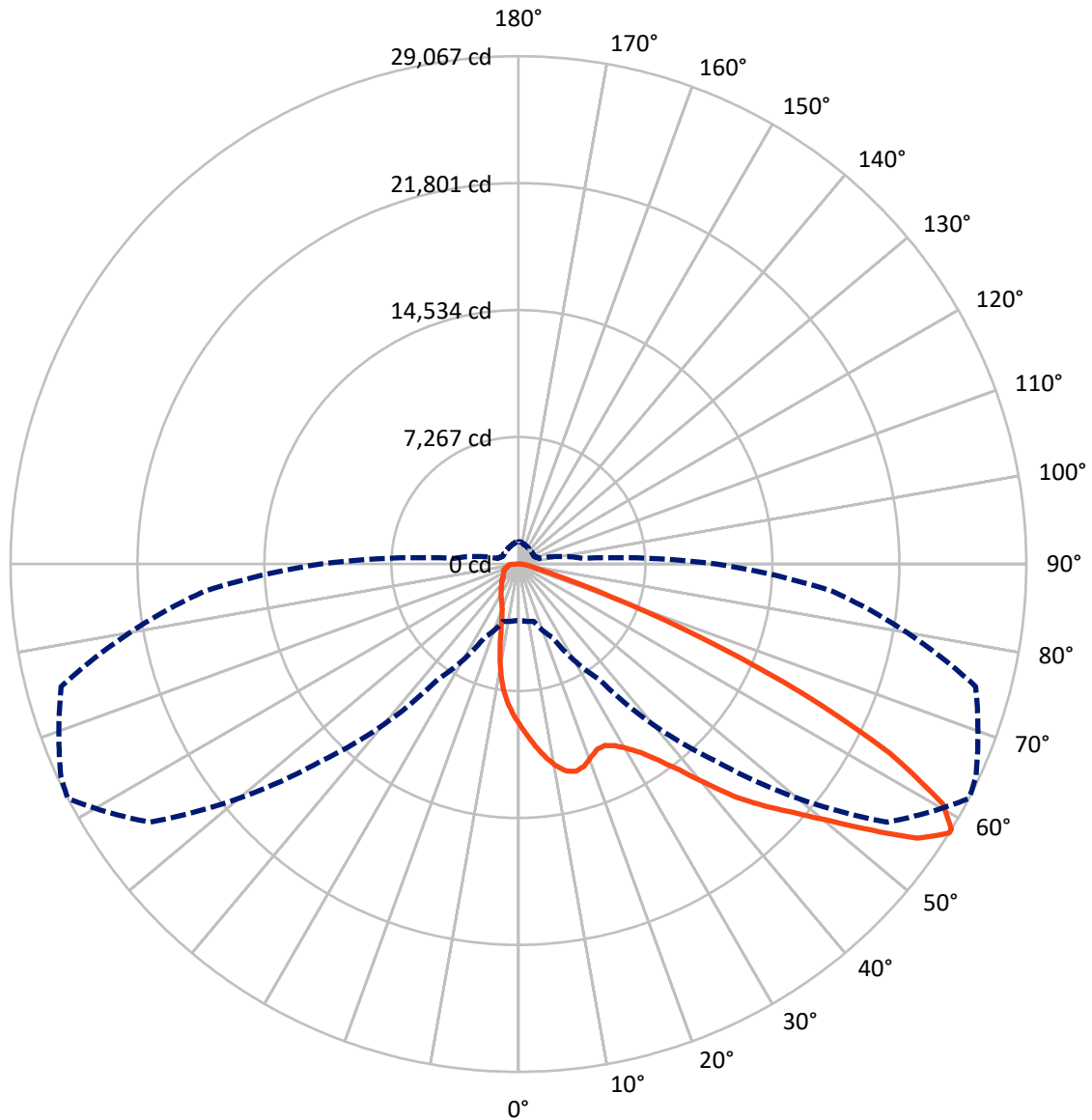
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5276.5   | 0.0    | 5276.5  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 29322.7  | 0.0    | 29322.7 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 34599.2  | 0.0    | 34599.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 822.0   | 2.4       |
| 10°-20°   | 2101.1  | 6.1       |
| 20°-30°   | 3396.4  | 9.8       |
| 30°-40°   | 5391.8  | 15.6      |
| 40°-50°   | 7889.3  | 22.8      |
| 50°-60°   | 8251.6  | 23.8      |
| 60°-70°   | 4875.0  | 14.1      |
| 70°-80°   | 1373.3  | 4.0       |
| 80°-90°   | 498.6   | 1.4       |
| 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°    | 34599.2 | 100.0     |
| 0°-180°   | 34599.2 | 100.0     |



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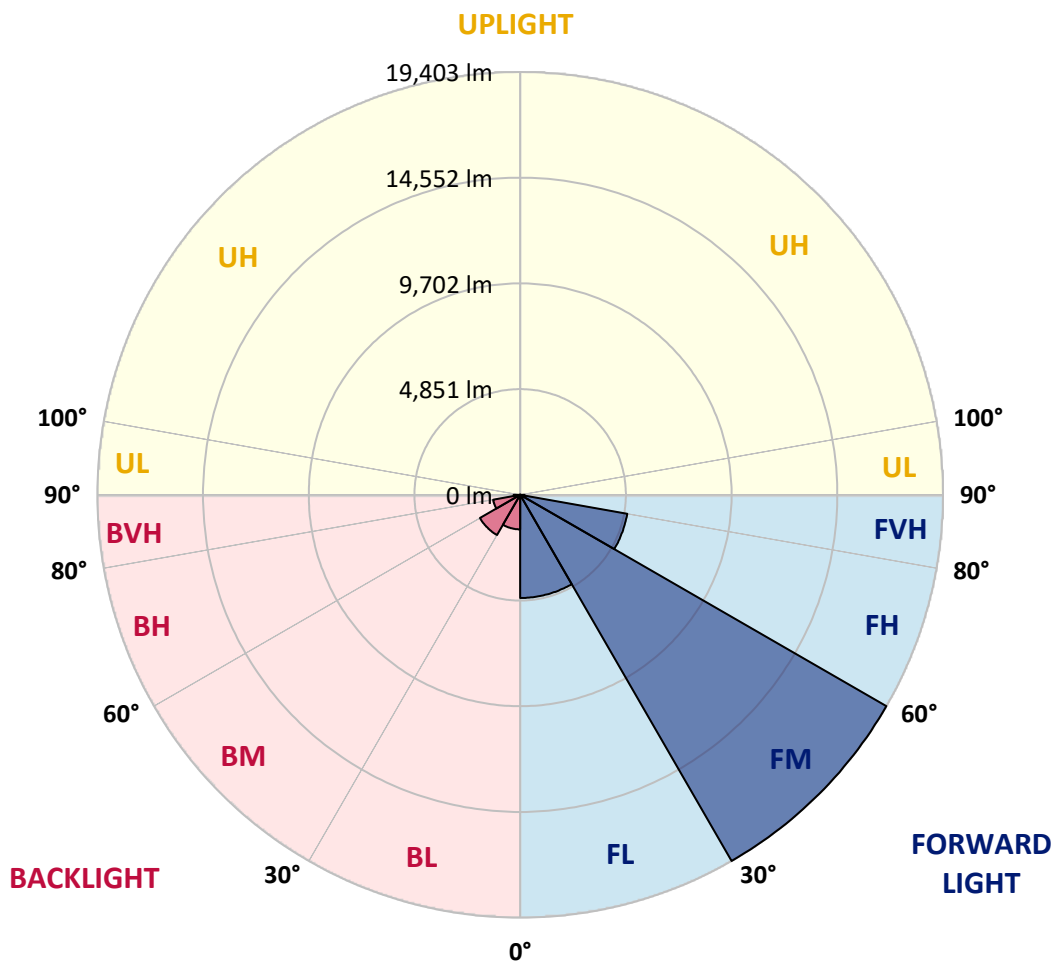
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4733.6  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 19403.0 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 4989.3  | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 196.7   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1585.9  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2129.7  | 6.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1259.0  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 301.9   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  | 9190.6  |
| 2.5°  | 10502.2 | 10417.4 | 10363.7 | 10316.3 | 10254.4 | 10122.6 | 9944.9  | 9832.5  | 9775.4  | 9581.6  | 9351.9  |
| 5°    | 11531.8 | 11456.9 | 11401.5 | 11337.9 | 11227.1 | 11020.1 | 10733.5 | 10505.4 | 10392.9 | 10005.2 | 9545.7  |
| 7.5°  | 11290.6 | 11321.6 | 11417.7 | 11585.6 | 11728.9 | 11701.2 | 11445.5 | 11155.4 | 11007.2 | 10467.9 | 9770.5  |
| 10°   | 9837.3  | 9891.1  | 10057.3 | 10450.0 | 11085.4 | 11737.1 | 11935.9 | 11735.5 | 11585.6 | 10925.7 | 10001.9 |
| 12.5° | 9545.7  | 9544.1  | 9557.2  | 9661.5  | 10039.4 | 10956.6 | 11952.2 | 12154.2 | 12064.5 | 11362.3 | 10238.2 |
| 15°   | 9664.7  | 9668.0  | 9658.1  | 9702.1  | 9819.5  | 10182.7 | 11453.6 | 12315.5 | 12379.1 | 11802.2 | 10482.5 |
| 17.5° | 9977.5  | 9969.3  | 9931.9  | 9931.9  | 9974.2  | 10116.0 | 10867.1 | 12165.6 | 12458.9 | 12191.6 | 10697.6 |
| 20°   | 10502.2 | 10464.6 | 10365.3 | 10274.0 | 10228.5 | 10304.9 | 10626.0 | 11820.2 | 12320.3 | 12532.2 | 10875.2 |
| 22.5° | 11137.5 | 11108.3 | 10946.8 | 10751.4 | 10593.4 | 10591.7 | 10749.7 | 11518.7 | 12080.9 | 12853.0 | 11025.1 |
| 25°   | 11958.6 | 11911.4 | 11671.9 | 11359.1 | 11082.1 | 10976.2 | 11020.1 | 11504.1 | 11950.5 | 13201.9 | 11158.7 |
| 27.5° | 12923.1 | 12836.8 | 12553.4 | 12102.1 | 11694.8 | 11481.2 | 11417.7 | 11769.7 | 12069.4 | 13633.5 | 11344.4 |
| 30°   | 14093.0 | 13993.5 | 13630.3 | 13042.1 | 12466.9 | 12116.7 | 11981.5 | 12240.6 | 12463.8 | 14159.8 | 11642.7 |
| 32.5° | 15424.1 | 15280.7 | 14860.3 | 14211.8 | 13455.9 | 12921.5 | 12701.6 | 12862.9 | 13040.4 | 14793.6 | 12015.6 |
| 35°   | 17263.4 | 17092.4 | 16484.6 | 15590.3 | 14736.5 | 14001.7 | 13649.8 | 13767.2 | 13939.8 | 15738.6 | 12554.9 |
| 37.5° | 18518.0 | 18441.5 | 18037.3 | 17196.7 | 16268.0 | 15422.5 | 14878.3 | 14946.7 | 15044.5 | 16919.7 | 13245.8 |
| 40°   | 18506.6 | 18537.6 | 18545.7 | 18553.9 | 17921.6 | 17112.0 | 16527.0 | 16455.3 | 16435.7 | 18216.5 | 14031.0 |
| 42.5° | 17579.6 | 17706.6 | 18117.1 | 18949.7 | 19334.2 | 18962.9 | 18426.8 | 18219.9 | 18117.1 | 19744.8 | 14863.5 |
| 45°   | 16160.5 | 16228.9 | 16997.9 | 18623.9 | 20057.6 | 20795.7 | 20390.0 | 19738.3 | 19552.6 | 21149.2 | 15554.4 |
| 47.5° | 15429.0 | 15503.8 | 15987.8 | 17760.4 | 20049.5 | 22276.7 | 22511.3 | 21269.8 | 20937.4 | 22371.2 | 16150.6 |
| 50°   | 13687.2 | 13843.7 | 14453.0 | 16258.2 | 19318.0 | 22957.7 | 24728.7 | 23094.5 | 22407.1 | 23560.4 | 16748.5 |
| 52.5° | 10489.1 | 10730.3 | 11412.8 | 13788.4 | 17462.2 | 22620.4 | 26503.0 | 25307.1 | 24336.1 | 24792.2 | 17261.8 |
| 55°   | 6616.3  | 6795.6  | 7369.1  | 9737.9  | 13969.2 | 20865.7 | 27175.9 | 27700.5 | 26837.0 | 25958.7 | 17706.6 |
| 57.5° | 3597.4  | 3677.2  | 3892.3  | 5376.5  | 9086.3  | 16986.5 | 26194.9 | 29062.4 | 28704.0 | 26949.3 | 18042.3 |
| 58°   | 3219.3  | 3273.2  | 3406.7  | 4659.7  | 8058.2  | 15926.0 | 25759.9 | 29067.4 | 28888.1 | 27094.4 | 18068.2 |
| 60°   | 2388.5  | 2360.7  | 2241.8  | 2659.0  | 4485.2  | 11002.4 | 23130.4 | 27904.1 | 28430.3 | 27272.0 | 17941.3 |
| 62.5° | 2098.5  | 2031.6  | 1789.0  | 1761.1  | 2181.5  | 5068.5  | 17698.4 | 23902.6 | 25145.7 | 26258.5 | 17168.9 |
| 65°   | 1971.4  | 1899.6  | 1586.9  | 1485.8  | 1573.8  | 2144.1  | 10425.5 | 17926.5 | 19485.8 | 23185.8 | 15194.3 |
| 67.5° | 1876.9  | 1784.0  | 1458.2  | 1319.7  | 1326.2  | 1417.4  | 4179.1  | 11290.6 | 13045.4 | 17603.9 | 11818.6 |
| 70°   | 1785.7  | 1684.6  | 1349.1  | 1189.4  | 1151.8  | 1120.9  | 1661.9  | 5651.9  | 7243.7  | 11119.6 | 7535.3  |
| 72.5° | 1687.8  | 1588.6  | 1252.9  | 1086.7  | 1013.4  | 910.7   | 1085.2  | 2311.9  | 3229.1  | 5260.8  | 3418.1  |
| 75°   | 1546.2  | 1456.5  | 1156.7  | 995.5   | 891.2   | 754.3   | 819.6   | 1207.2  | 1448.3  | 2095.1  | 1647.1  |
| 77.5° | 1371.8  | 1298.5  | 1049.2  | 920.6   | 790.1   | 612.6   | 630.5   | 837.4   | 928.7   | 1199.1  | 979.2   |
| 80°   | 985.7   | 1011.9  | 933.6   | 827.7   | 703.8   | 496.9   | 483.8   | 610.9   | 659.9   | 770.7   | 637.1   |
| 82.5° | 692.5   | 707.1   | 772.3   | 676.2   | 581.7   | 391.0   | 356.7   | 430.1   | 459.5   | 506.7   | 343.8   |
| 85°   | 477.4   | 461.1   | 529.6   | 470.8   | 420.3   | 260.7   | 244.3   | 291.6   | 309.6   | 314.4   | 177.5   |
| 87.5° | 286.7   | 286.7   | 306.3   | 252.6   | 226.5   | 135.3   | 132.1   | 166.1   | 177.5   | 169.4   | 97.7    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9190.6  | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 |
| 2.5°  | 9215.1  | 9099.3 | 8853.3 | 8656.2 | 8406.9 | 8147.8 | 8002.8 | 7848.0 | 7742.1 | 7665.5 | 7787.8 |
| 5°    | 9285.2  | 9048.8 | 8540.5 | 8058.2 | 7525.6 | 6971.6 | 6551.2 | 6160.1 | 5888.1 | 5718.6 | 5878.2 |
| 7.5°  | 9395.8  | 9032.5 | 8222.7 | 7398.4 | 6442.0 | 5519.8 | 4695.5 | 4179.1 | 3877.7 | 3729.4 | 3822.2 |
| 10°   | 9522.9  | 9006.4 | 7849.7 | 6504.0 | 5135.4 | 3973.7 | 3357.9 | 3149.4 | 3080.8 | 3053.2 | 3066.3 |
| 12.5° | 9628.8  | 8951.2 | 7392.0 | 5422.1 | 3856.5 | 3137.9 | 2960.4 | 2955.5 | 2970.2 | 2973.4 | 2978.3 |
| 15°   | 9703.9  | 8869.7 | 6712.5 | 4294.6 | 3084.2 | 2859.3 | 2849.6 | 2878.9 | 2906.6 | 2918.0 | 2924.5 |
| 17.5° | 9754.2  | 8701.8 | 5945.2 | 3395.4 | 2763.1 | 2724.1 | 2746.8 | 2784.3 | 2813.8 | 2821.8 | 2828.4 |
| 20°   | 9749.5  | 8455.7 | 5031.0 | 2831.6 | 2588.8 | 2588.8 | 2628.0 | 2657.2 | 2659.0 | 2649.1 | 2654.0 |
| 22.5° | 9698.9  | 8118.5 | 4144.8 | 2531.9 | 2434.0 | 2461.7 | 2500.9 | 2473.3 | 2359.2 | 2284.2 | 2289.2 |
| 25°   | 9614.2  | 7716.1 | 3385.5 | 2341.3 | 2290.7 | 2339.5 | 2328.1 | 2119.6 | 1956.7 | 1883.3 | 1883.3 |
| 27.5° | 9539.2  | 7240.3 | 2802.4 | 2175.1 | 2147.4 | 2207.7 | 2005.6 | 1816.6 | 1748.2 | 1714.0 | 1702.6 |
| 30°   | 9485.5  | 6727.1 | 2412.8 | 2015.3 | 2012.2 | 1968.1 | 1740.0 | 1687.8 | 1676.4 | 1648.7 | 1639.0 |
| 32.5° | 9498.5  | 6207.4 | 2163.7 | 1875.2 | 1886.7 | 1684.6 | 1612.9 | 1624.3 | 1614.6 | 1585.2 | 1572.3 |
| 35°   | 9606.0  | 5713.8 | 2000.7 | 1748.2 | 1714.0 | 1521.6 | 1538.0 | 1559.2 | 1556.0 | 1515.3 | 1502.1 |
| 37.5° | 9798.4  | 5246.2 | 1893.2 | 1642.3 | 1495.7 | 1440.3 | 1466.4 | 1498.9 | 1490.7 | 1463.1 | 1453.3 |
| 40°   | 10000.3 | 4806.3 | 1805.2 | 1559.2 | 1367.0 | 1384.8 | 1407.6 | 1425.6 | 1433.8 | 1441.9 | 1435.3 |
| 42.5° | 10197.4 | 4346.8 | 1697.6 | 1474.5 | 1313.1 | 1332.7 | 1342.4 | 1360.5 | 1404.4 | 1435.3 | 1433.8 |
| 45°   | 10314.8 | 3915.1 | 1586.9 | 1353.8 | 1270.8 | 1282.2 | 1275.8 | 1311.5 | 1365.3 | 1415.8 | 1417.4 |
| 47.5° | 10445.1 | 3579.4 | 1498.9 | 1243.2 | 1230.0 | 1238.3 | 1218.7 | 1254.6 | 1303.4 | 1365.3 | 1371.8 |
| 50°   | 10603.1 | 3379.1 | 1428.8 | 1155.1 | 1174.7 | 1174.7 | 1169.9 | 1202.4 | 1270.8 | 1342.4 | 1355.5 |
| 52.5° | 10782.4 | 3340.0 | 1370.2 | 1091.6 | 1119.3 | 1117.6 | 1122.5 | 1171.4 | 1246.4 | 1316.5 | 1327.9 |
| 55°   | 11000.6 | 3445.9 | 1306.7 | 1044.4 | 1065.5 | 1072.0 | 1088.3 | 1143.7 | 1207.2 | 1287.1 | 1292.0 |
| 57.5° | 11254.9 | 3661.0 | 1256.1 | 1006.9 | 1016.6 | 1037.8 | 1064.0 | 1114.3 | 1182.8 | 1270.8 | 1275.8 |
| 58°   | 11297.2 | 3706.5 | 1247.9 | 1003.6 | 1006.9 | 1031.3 | 1060.7 | 1109.4 | 1177.9 | 1274.1 | 1278.9 |
| 60°   | 11298.8 | 3858.0 | 1230.0 | 988.9  | 969.5  | 1010.1 | 1042.8 | 1091.6 | 1169.9 | 1285.5 | 1296.9 |
| 62.5° | 10898.0 | 3856.5 | 1217.1 | 967.7  | 930.4  | 980.8  | 1018.3 | 1075.4 | 1161.7 | 1313.1 | 1336.0 |
| 65°   | 9596.2  | 3504.5 | 1155.1 | 935.1  | 899.4  | 954.8  | 997.1  | 1064.0 | 1184.4 | 1433.8 | 1448.3 |
| 67.5° | 7506.0  | 2872.4 | 1039.5 | 889.6  | 858.6  | 928.7  | 984.1  | 1062.2 | 1208.8 | 1461.5 | 1471.2 |
| 70°   | 4962.6  | 2148.9 | 912.4  | 837.4  | 816.3  | 897.8  | 990.7  | 1117.6 | 1181.2 | 1402.8 | 1376.7 |
| 72.5° | 2575.8  | 1508.7 | 809.7  | 772.3  | 767.4  | 870.0  | 1085.2 | 1111.2 | 1153.6 | 1319.7 | 1287.1 |
| 75°   | 1352.3  | 1047.7 | 720.1  | 700.6  | 708.8  | 863.5  | 1280.5 | 1081.7 | 1117.6 | 1262.7 | 1324.6 |
| 77.5° | 827.7   | 845.6  | 643.5  | 635.5  | 651.7  | 844.0  | 1278.9 | 1044.4 | 1065.5 | 1161.7 | 1230.0 |
| 80°   | 554.0   | 685.9  | 584.8  | 586.6  | 597.9  | 772.3  | 1148.7 | 985.7  | 1002.0 | 1098.1 | 1168.2 |
| 82.5° | 350.2   | 405.7  | 531.2  | 558.8  | 544.2  | 637.1  | 975.9  | 897.8  | 920.6  | 1256.1 | 1327.9 |
| 85°   | 177.5   | 254.2  | 461.1  | 537.6  | 490.5  | 446.4  | 791.9  | 786.9  | 798.4  | 905.9  | 946.6  |
| 87.5° | 81.4    | 140.1  | 360.1  | 469.3  | 369.8  | 278.7  | 575.2  | 583.3  | 629.0  | 643.5  | 643.5  |
| 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)