

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: P649960

Luminaire Tested: **GLAN-SA6A-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6A-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21441.7 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

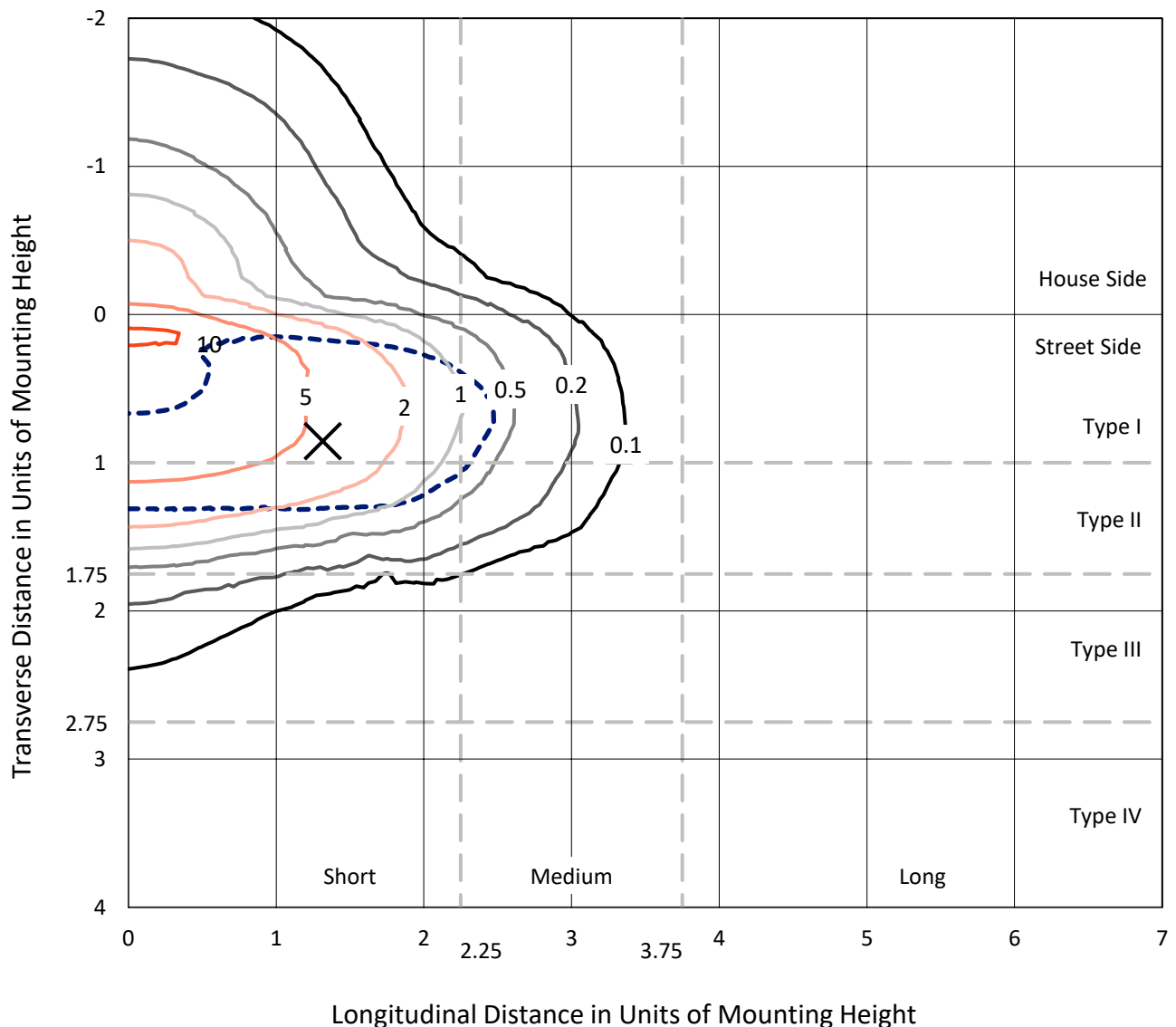
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

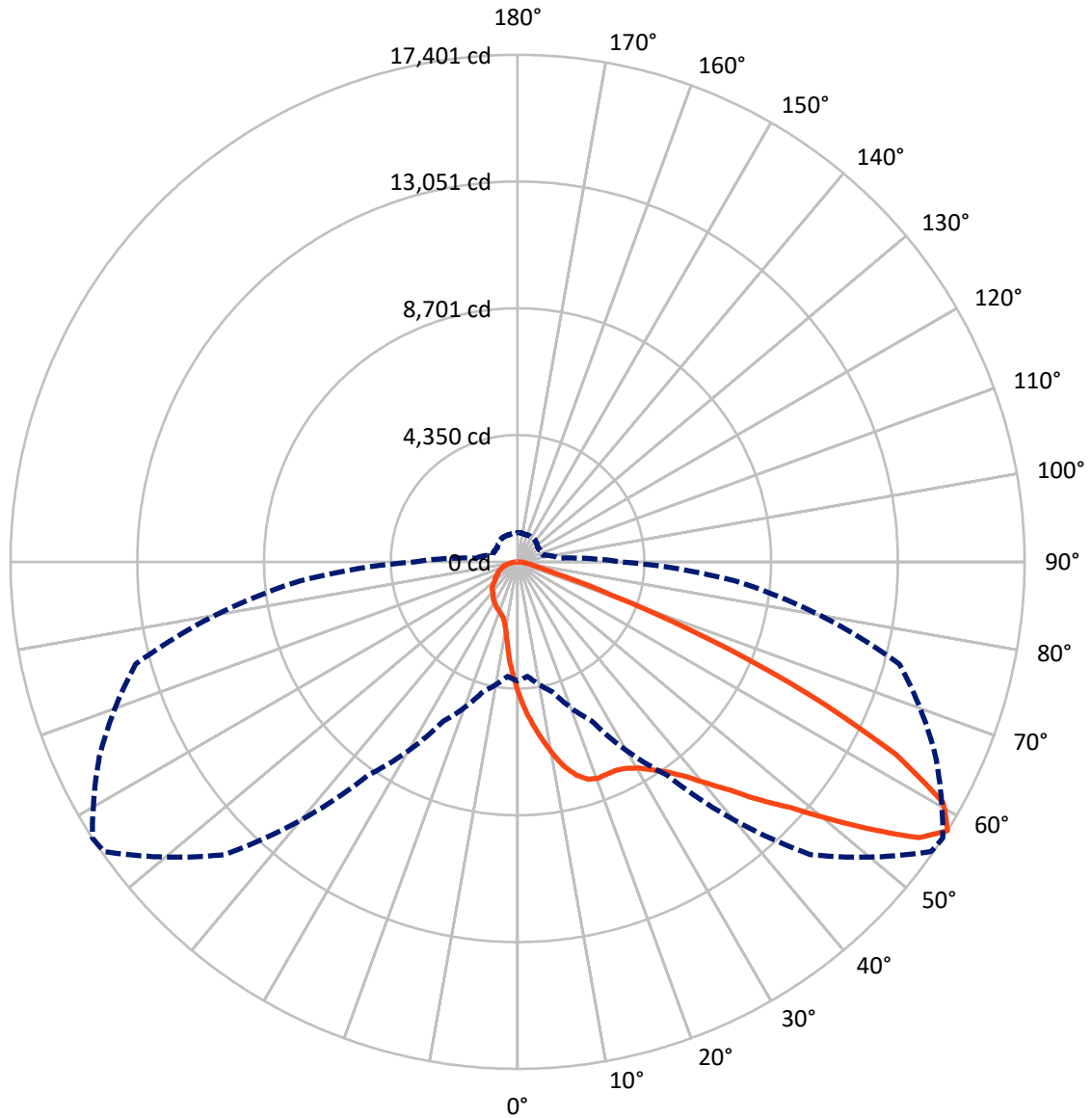
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3260.7   | 0.0    | 3260.7  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 18181.0  | 0.0    | 18181.0 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 21441.7  | 0.0    | 21441.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 432.9   | 2.0       |
| 10°-20°   | 1275.9  | 6.0       |
| 20°-30°   | 2118.7  | 9.9       |
| 30°-40°   | 3191.3  | 14.9      |
| 40°-50°   | 4791.5  | 22.3      |
| 50°-60°   | 5370.6  | 25.0      |
| 60°-70°   | 3143.1  | 14.7      |
| 70°-80°   | 929.7   | 4.3       |
| 80°-90°   | 187.9   | 0.9       |
| 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°    | 21441.7 | 100.0     |
| 0°-180°   | 21441.7 | 100.0     |

**Coefficient of Utilization**



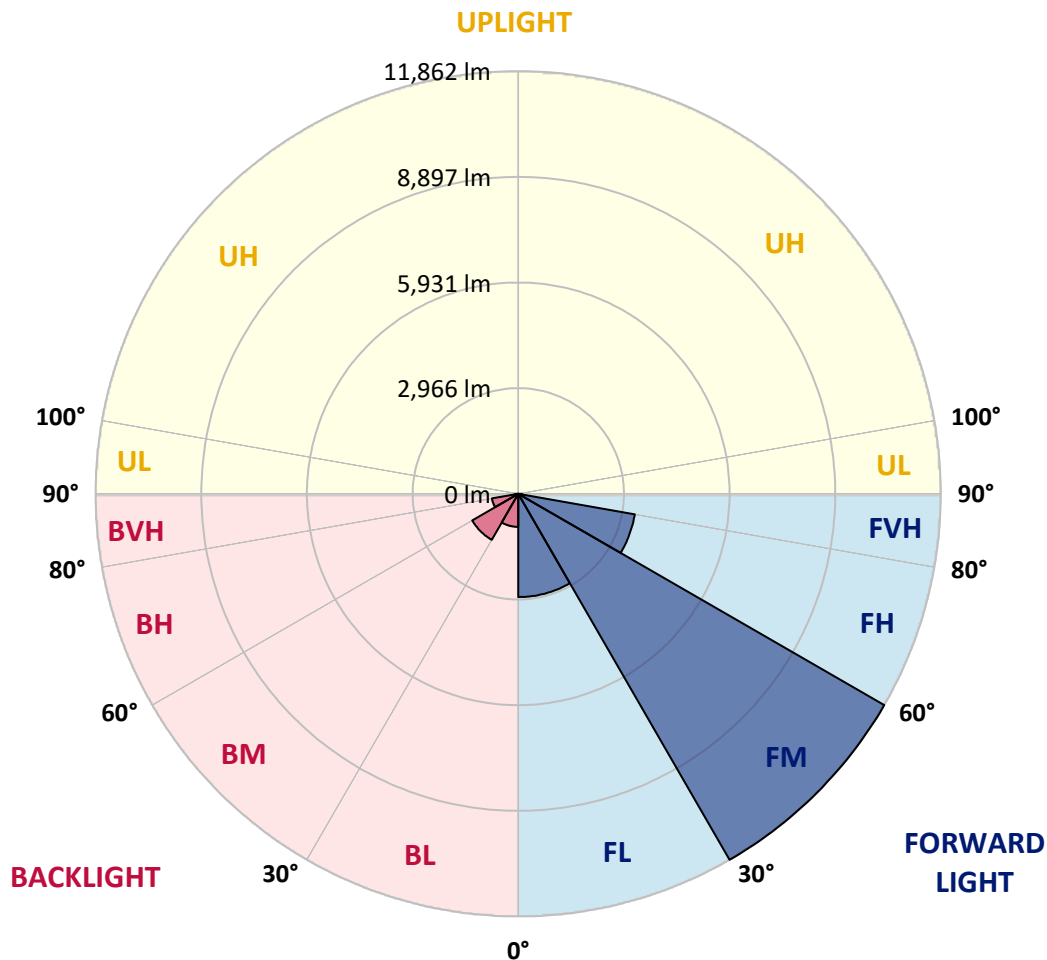
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2898.4  | 13.5      |                         |      |         |
| FM (30°-60°)   | 11862.5 | 55.3      |                         |      |         |
| FH (60°-80°)   | 3322.6  | 15.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 97.5    | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 929.1   | 4.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1490.9  | 7.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 750.3   | 3.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 90.4    | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7  | 4504.7 |
| 2.5°  | 5597.4  | 5536.4  | 5488.2  | 5445.9  | 5390.8  | 5241.7  | 5092.7  | 5090.4  | 4971.8  | 4788.7  | 4600.9 |
| 5°    | 6509.3  | 6427.2  | 6437.7  | 6306.3  | 6174.8  | 5958.9  | 5643.2  | 5626.7  | 5374.4  | 5031.6  | 4683.0 |
| 7.5°  | 7103.2  | 7104.4  | 7071.5  | 6996.4  | 6854.4  | 6609.1  | 6251.1  | 6170.1  | 5819.2  | 5299.3  | 4776.9 |
| 10°   | 7072.7  | 7104.4  | 7159.5  | 7224.1  | 7267.6  | 7146.7  | 6820.3  | 6721.7  | 6265.2  | 5623.2  | 4881.4 |
| 12.5° | 6666.6  | 6715.9  | 6794.6  | 6956.5  | 7218.2  | 7417.8  | 7306.3  | 7226.5  | 6781.6  | 5945.9  | 4996.4 |
| 15°   | 6413.1  | 6442.4  | 6485.8  | 6595.0  | 6876.7  | 7354.4  | 7643.1  | 7600.9  | 7268.7  | 6311.0  | 5125.5 |
| 17.5° | 6335.6  | 6364.9  | 6379.0  | 6446.0  | 6646.7  | 7136.1  | 7775.7  | 7850.8  | 7700.6  | 6646.7  | 5255.8 |
| 20°   | 6413.1  | 6427.2  | 6427.2  | 6467.1  | 6624.3  | 7008.2  | 7769.9  | 7921.3  | 8055.1  | 7049.2  | 5377.9 |
| 22.5° | 6616.1  | 6622.0  | 6613.8  | 6627.9  | 6745.2  | 7043.3  | 7714.7  | 7902.5  | 8341.5  | 7390.7  | 5472.9 |
| 25°   | 6945.9  | 6955.3  | 6901.4  | 6868.5  | 6954.1  | 7198.3  | 7745.2  | 7917.8  | 8565.6  | 7717.1  | 5536.4 |
| 27.5° | 7320.3  | 7332.1  | 7266.4  | 7190.1  | 7230.0  | 7389.6  | 7864.9  | 8019.9  | 8733.5  | 8038.7  | 5576.2 |
| 30°   | 7779.3  | 7784.0  | 7673.6  | 7582.1  | 7556.3  | 7674.8  | 8069.2  | 8213.5  | 8942.4  | 8417.7  | 5636.1 |
| 32.5° | 8248.7  | 8284.0  | 8141.9  | 8012.8  | 7969.4  | 8005.8  | 8370.8  | 8510.5  | 9191.2  | 8825.0  | 5732.3 |
| 35°   | 8887.2  | 8893.1  | 8722.9  | 8565.6  | 8422.4  | 8469.4  | 8757.0  | 8857.9  | 9535.1  | 9295.7  | 5868.5 |
| 37.5° | 9684.1  | 9738.2  | 9503.4  | 9210.0  | 9033.9  | 8965.9  | 9224.1  | 9334.4  | 10017.5 | 9873.2  | 6073.9 |
| 40°   | 10569.2 | 10589.1 | 10388.4 | 10205.3 | 9883.7  | 9686.5  | 9864.9  | 9984.7  | 10612.5 | 10562.1 | 6312.2 |
| 42.5° | 11125.5 | 11168.9 | 11184.1 | 11165.3 | 10923.6 | 10592.6 | 10660.7 | 10717.0 | 11316.8 | 11208.8 | 6556.3 |
| 45°   | 11313.3 | 11377.9 | 11596.2 | 12058.6 | 12084.4 | 11758.1 | 11599.7 | 11653.6 | 12084.4 | 11861.4 | 6789.9 |
| 47.5° | 11002.2 | 11112.6 | 11515.1 | 12463.5 | 13173.6 | 13198.2 | 12720.5 | 12602.0 | 12783.9 | 12402.5 | 6958.8 |
| 50°   | 10198.3 | 10221.8 | 10837.9 | 12211.1 | 13684.1 | 14575.0 | 14080.8 | 13860.2 | 13448.3 | 12802.7 | 7075.0 |
| 52.5° | 8954.2  | 8981.2  | 9497.6  | 11038.7 | 13369.6 | 15537.4 | 15672.4 | 15278.1 | 14123.1 | 13113.7 | 7151.4 |
| 55°   | 6646.7  | 6802.8  | 7370.8  | 8860.3  | 11879.0 | 15447.0 | 16937.6 | 16713.4 | 14938.9 | 13360.2 | 7271.0 |
| 57.5° | 4086.8  | 3943.7  | 4617.4  | 6028.1  | 8934.2  | 14205.3 | 17328.5 | 17401.2 | 15836.7 | 13566.7 | 7471.8 |
| 60°   | 1880.3  | 1908.4  | 2186.6  | 3109.1  | 5445.9  | 11112.6 | 16321.4 | 16781.5 | 16333.1 | 13559.8 | 7522.2 |
| 62.5° | 1295.8  | 1269.9  | 1199.6  | 1365.0  | 2483.5  | 7028.1  | 13786.3 | 14565.6 | 15337.9 | 13138.3 | 7321.5 |
| 65°   | 1158.4  | 1132.6  | 996.4   | 950.7   | 1140.8  | 3063.3  | 10022.2 | 11005.8 | 12914.2 | 12075.0 | 6821.5 |
| 67.5° | 1082.2  | 1046.9  | 906.1   | 816.9   | 814.6   | 1219.4  | 5909.5  | 7093.8  | 9578.5  | 10208.8 | 5910.7 |
| 70°   | 1002.3  | 974.1   | 834.5   | 735.9   | 693.7   | 766.4   | 2597.4  | 3400.2  | 6219.4  | 7356.8  | 4604.4 |
| 72.5° | 922.5   | 889.6   | 764.1   | 658.4   | 603.3   | 573.9   | 995.3   | 1294.6  | 3514.0  | 4410.7  | 2822.7 |
| 75°   | 806.3   | 789.9   | 683.1   | 596.3   | 536.4   | 463.6   | 631.4   | 720.7   | 1680.7  | 2025.8  | 1416.7 |
| 77.5° | 705.4   | 687.8   | 606.8   | 521.1   | 477.7   | 376.8   | 448.3   | 489.5   | 708.9   | 821.6   | 639.6  |
| 80°   | 516.4   | 534.0   | 511.8   | 460.1   | 426.0   | 295.7   | 301.6   | 335.7   | 421.3   | 466.0   | 390.9  |
| 82.5° | 327.5   | 360.3   | 394.4   | 354.5   | 322.8   | 233.6   | 208.9   | 221.8   | 287.5   | 305.1   | 173.7  |
| 85°   | 137.3   | 139.7   | 228.9   | 216.0   | 184.2   | 138.5   | 125.6   | 132.6   | 153.8   | 160.8   | 81.0   |
| 87.5° | 52.9    | 51.7    | 81.0    | 75.1    | 57.5    | 39.9    | 39.9    | 44.6    | 61.0    | 56.4    | 25.8   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 | 4504.7 |
| 2.5°  | 4519.9 | 4436.6 | 4271.1 | 4065.6 | 3915.5 | 3746.4 | 3597.4 | 3490.6 | 3450.7 | 3431.9 | 3396.7 |
| 5°    | 4516.4 | 4352.1 | 4009.4 | 3650.2 | 3361.5 | 3065.7 | 2815.7 | 2653.7 | 2639.6 | 2531.7 | 2521.1 |
| 7.5°  | 4517.6 | 4266.4 | 3720.6 | 3192.4 | 2752.3 | 2449.5 | 2242.9 | 2189.0 | 2124.4 | 2108.0 | 2116.2 |
| 10°   | 4521.1 | 4157.3 | 3410.7 | 2739.4 | 2313.4 | 2115.0 | 2037.5 | 2016.4 | 2018.7 | 2025.8 | 2027.0 |
| 12.5° | 4525.7 | 4051.6 | 3089.2 | 2395.5 | 2066.9 | 1984.7 | 1976.5 | 1995.3 | 2015.2 | 2030.5 | 2034.0 |
| 15°   | 4531.6 | 3930.7 | 2775.8 | 2118.5 | 1943.6 | 1936.6 | 1963.6 | 1995.3 | 2023.4 | 2045.7 | 2049.3 |
| 17.5° | 4524.6 | 3789.9 | 2512.9 | 1948.3 | 1875.6 | 1909.6 | 1954.2 | 1994.1 | 2019.9 | 2041.0 | 2043.4 |
| 20°   | 4508.2 | 3632.6 | 2259.3 | 1828.6 | 1833.3 | 1888.5 | 1936.6 | 1974.2 | 2002.4 | 2012.9 | 2021.1 |
| 22.5° | 4444.8 | 3444.8 | 2038.7 | 1735.9 | 1782.8 | 1859.2 | 1916.6 | 1938.9 | 1907.2 | 1885.0 | 1890.8 |
| 25°   | 4336.8 | 3200.7 | 1833.3 | 1660.7 | 1737.1 | 1818.0 | 1876.8 | 1822.7 | 1796.9 | 1787.5 | 1792.2 |
| 27.5° | 4201.8 | 2933.0 | 1678.4 | 1582.1 | 1678.4 | 1772.3 | 1755.9 | 1746.5 | 1734.7 | 1719.5 | 1723.0 |
| 30°   | 4056.3 | 2671.4 | 1546.9 | 1521.1 | 1615.0 | 1669.0 | 1676.0 | 1691.3 | 1678.4 | 1654.9 | 1664.3 |
| 32.5° | 3921.3 | 2424.9 | 1447.1 | 1469.5 | 1570.4 | 1562.2 | 1615.0 | 1632.6 | 1572.7 | 1494.1 | 1497.6 |
| 35°   | 3806.3 | 2196.0 | 1372.1 | 1419.0 | 1494.1 | 1497.6 | 1550.4 | 1489.4 | 1424.9 | 1387.3 | 1389.7 |
| 37.5° | 3719.5 | 2017.6 | 1322.7 | 1375.6 | 1396.7 | 1441.3 | 1413.2 | 1381.4 | 1373.2 | 1347.4 | 1348.6 |
| 40°   | 3667.8 | 1861.5 | 1291.1 | 1341.5 | 1338.0 | 1368.5 | 1278.2 | 1309.9 | 1321.5 | 1313.4 | 1314.6 |
| 42.5° | 3616.1 | 1751.2 | 1258.2 | 1294.6 | 1293.4 | 1233.5 | 1213.6 | 1240.6 | 1271.1 | 1274.6 | 1272.3 |
| 45°   | 3575.1 | 1665.4 | 1224.1 | 1223.0 | 1246.5 | 1152.6 | 1146.7 | 1163.1 | 1206.5 | 1227.7 | 1226.5 |
| 47.5° | 3529.3 | 1593.9 | 1172.5 | 1139.7 | 1146.7 | 1102.1 | 1092.7 | 1099.7 | 1152.6 | 1186.6 | 1196.0 |
| 50°   | 3471.8 | 1522.3 | 1107.9 | 1063.4 | 1034.0 | 1055.2 | 1057.5 | 1058.7 | 1111.5 | 1150.2 | 1158.4 |
| 52.5° | 3426.0 | 1468.3 | 1034.0 | 1001.1 | 966.0  | 1012.9 | 1030.5 | 1032.9 | 1064.6 | 1096.2 | 1102.1 |
| 55°   | 3453.0 | 1437.7 | 961.3  | 937.8  | 906.1  | 969.5  | 1003.5 | 1008.2 | 1015.2 | 1038.7 | 1042.3 |
| 57.5° | 3534.0 | 1444.8 | 902.6  | 872.0  | 848.6  | 917.8  | 975.3  | 978.8  | 974.1  | 1002.3 | 1007.0 |
| 60°   | 3558.7 | 1441.3 | 859.1  | 799.3  | 785.2  | 862.6  | 934.3  | 941.3  | 940.1  | 981.2  | 989.4  |
| 62.5° | 3455.4 | 1396.7 | 815.7  | 738.3  | 728.9  | 806.3  | 876.7  | 904.9  | 910.8  | 969.5  | 980.0  |
| 65°   | 3212.4 | 1305.2 | 758.2  | 673.7  | 673.7  | 746.4  | 821.6  | 860.3  | 876.7  | 955.4  | 967.2  |
| 67.5° | 2892.0 | 1197.2 | 699.5  | 618.6  | 616.2  | 689.0  | 762.9  | 802.8  | 828.6  | 935.5  | 942.5  |
| 70°   | 2400.2 | 1051.6 | 626.8  | 558.7  | 558.7  | 624.4  | 691.3  | 739.5  | 777.0  | 897.9  | 897.9  |
| 72.5° | 1644.4 | 874.4  | 538.7  | 490.6  | 491.8  | 552.8  | 620.9  | 674.9  | 719.5  | 822.8  | 825.1  |
| 75°   | 1039.9 | 683.1  | 442.5  | 417.8  | 422.5  | 480.1  | 550.4  | 606.8  | 696.0  | 813.4  | 816.9  |
| 77.5° | 552.8  | 480.1  | 352.1  | 346.2  | 352.1  | 404.9  | 483.6  | 561.0  | 698.4  | 705.4  | 693.7  |
| 80°   | 358.0  | 340.4  | 278.2  | 266.5  | 268.8  | 326.3  | 430.7  | 532.8  | 561.0  | 568.1  | 542.2  |
| 82.5° | 194.8  | 216.0  | 197.2  | 185.4  | 185.4  | 254.7  | 367.4  | 423.7  | 402.5  | 334.5  | 319.2  |
| 85°   | 83.3   | 100.9  | 102.1  | 89.2   | 85.7   | 157.3  | 246.5  | 231.2  | 214.8  | 205.4  | 203.0  |
| 87.5° | 23.5   | 32.9   | 32.9   | 24.7   | 18.8   | 43.5   | 49.3   | 14.1   | 0.0    | 1.2    | 2.3    |
| 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)