

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: P191159

Luminaire Tested: **GAN-AF-01-LED-U-SL3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SL3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5151.6 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

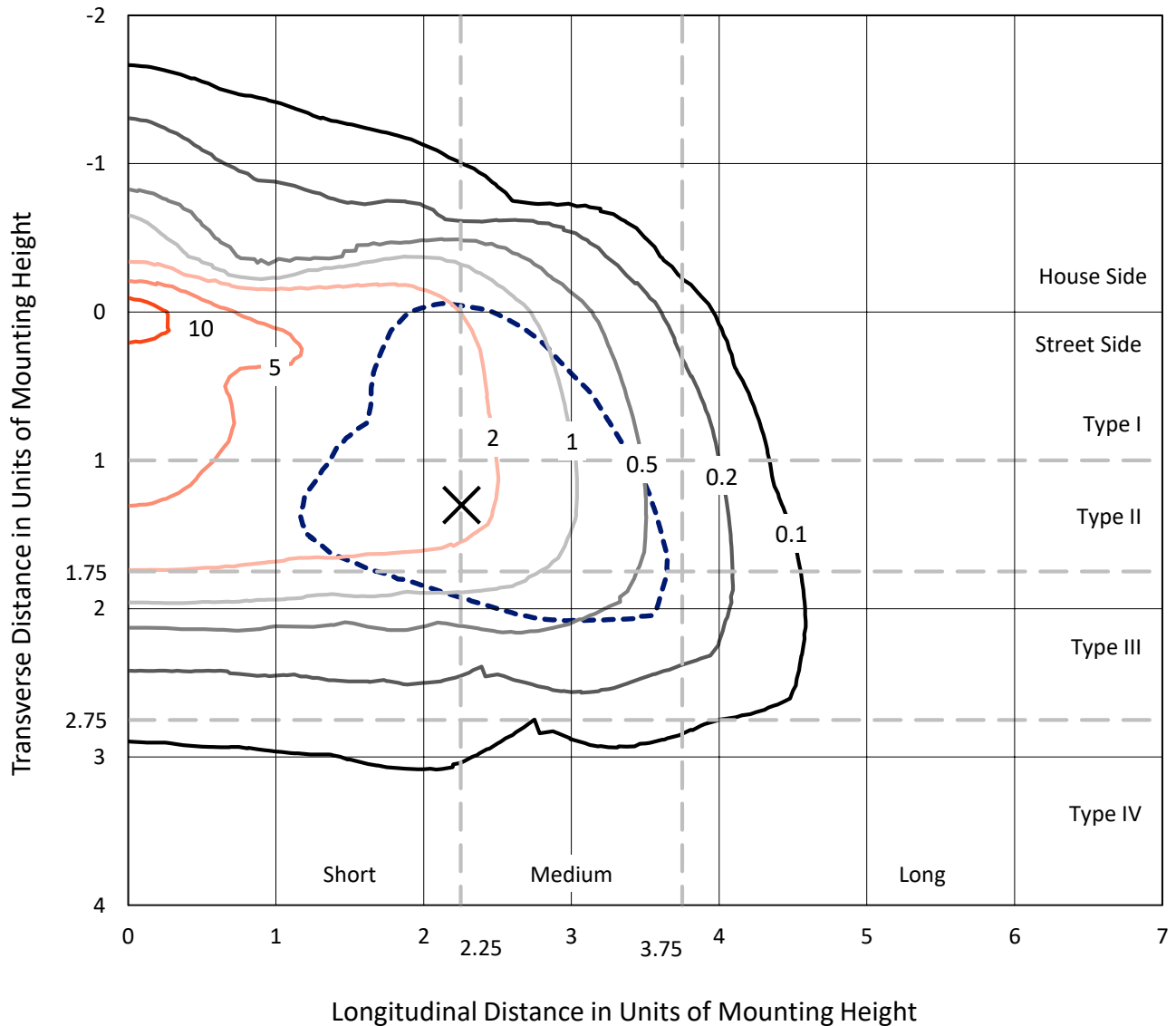
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

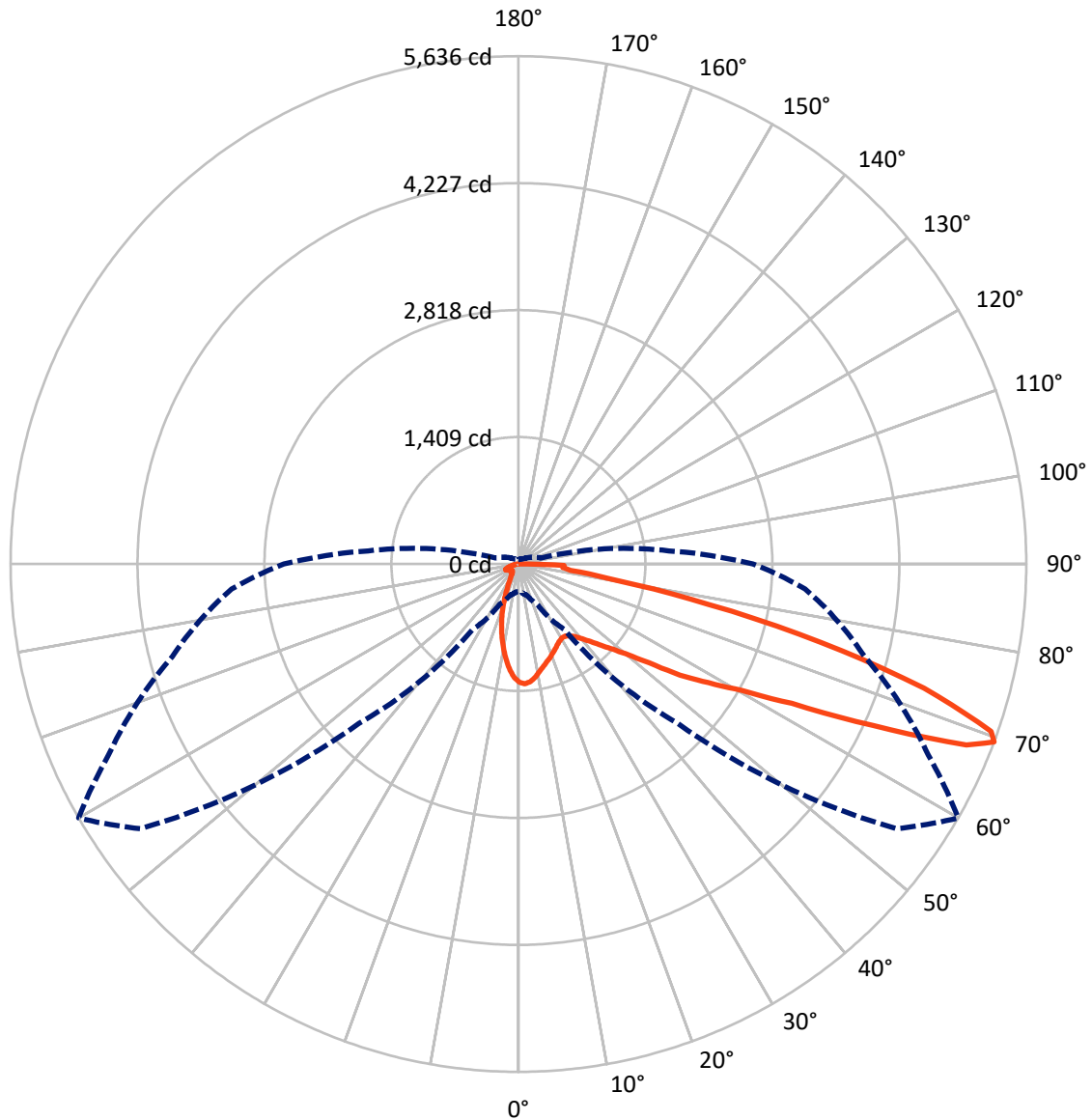
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 732.9    | 0.0    | 732.9  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 4418.7   | 0.0    | 4418.7 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 5151.6   | 0.0    | 5151.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.0  | 2.2       |
| 10°-20°   | 236.5  | 4.6       |
| 20°-30°   | 301.3  | 5.8       |
| 30°-40°   | 414.2  | 8.0       |
| 40°-50°   | 672.1  | 13.0      |
| 50°-60°   | 1077.9 | 20.9      |
| 60°-70°   | 1434.6 | 27.8      |
| 70°-80°   | 774.6  | 15.0      |
| 80°-90°   | 129.3  | 2.5       |
| 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°    | 5151.6 | 100.0     |
| 0°-180°   | 5151.6 | 100.0     |

**Coefficient of Utilization**



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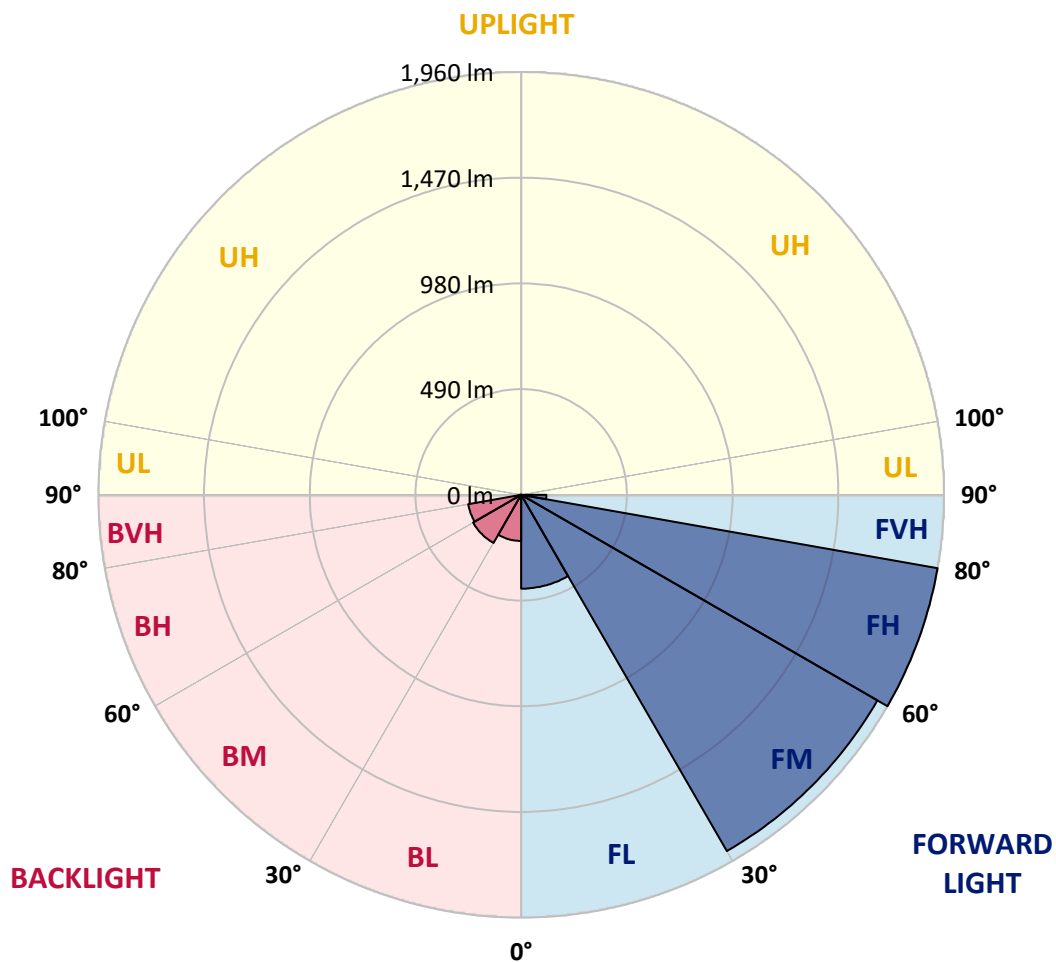
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 435.0  | 8.4       |                         |      |         |
| FM (30°-60°)   | 1906.8 | 37.0      |                         |      |         |
| FH (60°-80°)   | 1960.1 | 38.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 116.8  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 213.8  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 257.5  | 5.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 249.2  | 4.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.5   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 |
| 2.5°  | 1339.6 | 1342.5 | 1341.3 | 1340.6 | 1342.8 | 1339.3 | 1332.1 | 1329.8 | 1326.4 | 1318.2 | 1304.3 |
| 5°    | 1289.3 | 1298.2 | 1297.8 | 1304.5 | 1315.7 | 1318.7 | 1315.4 | 1315.9 | 1309.5 | 1299.2 | 1276.1 |
| 7.5°  | 1202.5 | 1206.2 | 1208.2 | 1222.8 | 1243.3 | 1259.7 | 1273.7 | 1278.1 | 1275.1 | 1266.4 | 1236.5 |
| 10°   | 1112.9 | 1115.8 | 1120.5 | 1137.7 | 1163.6 | 1186.3 | 1212.7 | 1227.8 | 1234.3 | 1232.9 | 1199.5 |
| 12.5° | 1035.9 | 1039.0 | 1045.1 | 1064.6 | 1095.5 | 1123.3 | 1161.7 | 1180.6 | 1196.0 | 1205.2 | 1169.3 |
| 15°   | 967.0  | 973.5  | 979.5  | 1001.9 | 1036.5 | 1073.1 | 1116.3 | 1140.3 | 1164.1 | 1184.8 | 1142.7 |
| 17.5° | 913.3  | 919.7  | 923.2  | 943.7  | 980.5  | 1025.3 | 1076.0 | 1104.2 | 1134.0 | 1167.9 | 1116.3 |
| 20°   | 882.2  | 885.2  | 883.7  | 895.1  | 928.2  | 975.8  | 1035.9 | 1068.6 | 1104.7 | 1151.9 | 1090.0 |
| 22.5° | 873.5  | 873.7  | 868.3  | 867.1  | 888.4  | 928.4  | 993.2  | 1032.8 | 1077.1 | 1141.5 | 1067.3 |
| 25°   | 894.7  | 893.9  | 878.9  | 866.7  | 869.0  | 892.4  | 951.9  | 997.9  | 1053.8 | 1139.3 | 1050.0 |
| 27.5° | 941.6  | 943.9  | 921.8  | 898.9  | 876.3  | 875.4  | 920.6  | 969.0  | 1035.0 | 1149.5 | 1042.5 |
| 30°   | 1007.6 | 1011.3 | 987.7  | 958.6  | 916.1  | 881.0  | 908.3  | 951.9  | 1023.3 | 1170.6 | 1041.2 |
| 32.5° | 1079.7 | 1083.7 | 1065.8 | 1035.2 | 979.5  | 914.8  | 916.8  | 953.4  | 1022.7 | 1200.2 | 1049.6 |
| 35°   | 1156.7 | 1161.2 | 1151.9 | 1126.1 | 1064.1 | 977.2  | 949.1  | 977.5  | 1039.0 | 1245.5 | 1072.4 |
| 37.5° | 1242.5 | 1249.5 | 1252.0 | 1227.3 | 1161.2 | 1059.6 | 1002.1 | 1023.3 | 1075.5 | 1308.5 | 1113.9 |
| 40°   | 1366.3 | 1375.9 | 1375.2 | 1339.9 | 1272.3 | 1170.9 | 1084.0 | 1089.4 | 1132.5 | 1392.5 | 1180.3 |
| 42.5° | 1603.1 | 1605.1 | 1543.1 | 1466.2 | 1394.8 | 1287.8 | 1180.6 | 1176.1 | 1211.2 | 1499.1 | 1278.1 |
| 45°   | 1904.4 | 1896.2 | 1758.4 | 1609.8 | 1522.8 | 1422.2 | 1306.2 | 1284.3 | 1310.9 | 1628.9 | 1400.5 |
| 47.5° | 2154.5 | 2135.6 | 1961.5 | 1756.4 | 1658.1 | 1568.3 | 1453.8 | 1415.5 | 1430.2 | 1776.4 | 1558.8 |
| 50°   | 2241.4 | 2227.3 | 2082.9 | 1878.3 | 1786.3 | 1746.5 | 1635.5 | 1581.2 | 1585.2 | 1952.0 | 1744.2 |
| 52.5° | 2222.8 | 2220.7 | 2124.5 | 1958.7 | 1906.2 | 1933.6 | 1892.8 | 1819.3 | 1780.5 | 2147.1 | 1944.3 |
| 55°   | 2178.7 | 2183.0 | 2148.1 | 2052.2 | 2043.3 | 2114.2 | 2229.0 | 2174.7 | 2054.1 | 2344.0 | 2151.1 |
| 57.5° | 2025.6 | 2036.6 | 2113.2 | 2170.0 | 2264.1 | 2369.6 | 2499.7 | 2484.3 | 2348.4 | 2556.8 | 2397.0 |
| 60°   | 1632.0 | 1657.4 | 1862.9 | 2147.1 | 2491.3 | 2821.3 | 2879.5 | 2843.6 | 2652.0 | 2820.8 | 2721.7 |
| 62.5° | 1143.5 | 1169.8 | 1414.2 | 1858.9 | 2454.0 | 3331.4 | 3558.3 | 3403.8 | 3088.0 | 3209.7 | 3142.0 |
| 65°   | 612.1  | 624.9  | 811.5  | 1289.8 | 2071.7 | 3436.7 | 4550.5 | 4315.3 | 3778.4 | 3689.3 | 3501.7 |
| 67.5° | 337.7  | 344.6  | 416.0  | 651.2  | 1326.9 | 3026.3 | 5182.6 | 5360.3 | 4641.1 | 4008.5 | 3436.2 |
| 69°   | 305.4  | 311.8  | 358.6  | 493.3  | 887.9  | 2502.2 | 5120.9 | 5635.7 | 5019.4 | 3976.9 | 3194.3 |
| 70°   | 298.6  | 304.6  | 346.7  | 454.7  | 718.7  | 2062.5 | 4914.2 | 5565.4 | 5109.4 | 3863.7 | 2983.2 |
| 72.5° | 268.7  | 275.3  | 316.1  | 408.4  | 614.2  | 1028.3 | 3892.5 | 4705.6 | 4638.9 | 3350.1 | 2262.9 |
| 75°   | 250.6  | 256.6  | 325.7  | 399.9  | 588.0  | 650.8  | 2566.2 | 3468.0 | 3410.0 | 2343.5 | 1220.2 |
| 77.5° | 107.2  | 106.8  | 151.1  | 338.4  | 596.8  | 630.1  | 1378.9 | 2166.5 | 1976.6 | 1001.7 | 350.4  |
| 80°   | 71.7   | 70.4   | 71.7   | 99.5   | 547.3  | 633.6  | 722.4  | 1099.7 | 830.6  | 255.3  | 172.7  |
| 82.5° | 61.7   | 60.8   | 62.9   | 60.8   | 192.3  | 723.1  | 614.2  | 584.8  | 395.0  | 145.1  | 85.6   |
| 85°   | 41.5   | 39.8   | 54.2   | 54.5   | 90.8   | 642.5  | 691.8  | 494.0  | 319.6  | 86.1   | 42.4   |
| 87.5° | 19.9   | 19.4   | 31.6   | 38.6   | 53.3   | 261.1  | 776.2  | 506.2  | 322.2  | 44.1   | 20.2   |
| 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°    | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 |
| 2.5°  | 1300.0 | 1289.8 | 1279.8 | 1267.9 | 1255.5 | 1241.6 | 1234.6 | 1227.6 | 1225.8 | 1223.9 | 1216.9 |
| 5°    | 1264.2 | 1249.7 | 1224.9 | 1197.5 | 1168.6 | 1140.5 | 1119.1 | 1105.6 | 1095.5 | 1090.3 | 1081.1 |
| 7.5°  | 1217.9 | 1196.8 | 1153.2 | 1105.9 | 1057.4 | 1013.1 | 974.8  | 950.6  | 927.7  | 917.0  | 904.8  |
| 10°   | 1173.8 | 1142.2 | 1074.5 | 1004.8 | 935.2  | 868.3  | 805.3  | 760.8  | 721.2  | 699.0  | 683.3  |
| 12.5° | 1136.0 | 1092.7 | 998.9  | 904.6  | 809.1  | 713.7  | 619.4  | 545.2  | 483.2  | 450.7  | 434.0  |
| 15°   | 1099.2 | 1046.9 | 927.0  | 807.3  | 684.6  | 555.0  | 431.0  | 346.9  | 295.6  | 275.3  | 268.2  |
| 17.5° | 1065.8 | 998.9  | 854.8  | 709.2  | 556.2  | 399.4  | 289.7  | 243.4  | 223.7  | 217.0  | 214.7  |
| 20°   | 1029.8 | 950.3  | 779.9  | 606.7  | 422.3  | 279.2  | 226.2  | 205.8  | 197.8  | 195.9  | 194.9  |
| 22.5° | 994.9  | 902.5  | 708.2  | 496.9  | 303.3  | 215.5  | 194.4  | 185.9  | 184.6  | 186.4  | 186.4  |
| 25°   | 965.3  | 859.8  | 630.9  | 382.3  | 222.7  | 181.4  | 173.9  | 172.0  | 176.7  | 183.1  | 184.4  |
| 27.5° | 943.2  | 824.7  | 548.5  | 282.2  | 177.5  | 157.7  | 157.5  | 160.8  | 172.5  | 184.8  | 187.4  |
| 30°   | 928.0  | 791.4  | 460.3  | 203.6  | 148.8  | 138.8  | 142.8  | 149.8  | 166.9  | 184.6  | 189.3  |
| 32.5° | 920.2  | 766.7  | 368.6  | 157.5  | 127.5  | 121.9  | 128.7  | 137.1  | 154.1  | 170.4  | 176.7  |
| 35°   | 926.3  | 748.6  | 281.9  | 131.3  | 112.5  | 108.2  | 115.2  | 123.5  | 133.4  | 140.3  | 145.1  |
| 37.5° | 948.6  | 741.3  | 212.8  | 117.7  | 102.3  | 98.3   | 103.7  | 108.5  | 112.5  | 114.5  | 116.7  |
| 40°   | 996.9  | 749.0  | 170.4  | 110.8  | 96.6   | 91.6   | 93.8   | 95.5   | 98.0   | 100.0  | 101.1  |
| 42.5° | 1068.1 | 772.2  | 152.8  | 108.0  | 93.6   | 86.3   | 85.8   | 86.6   | 89.8   | 93.6   | 94.3   |
| 45°   | 1167.6 | 813.0  | 151.6  | 109.8  | 92.1   | 82.1   | 79.9   | 80.9   | 85.8   | 91.6   | 92.6   |
| 47.5° | 1294.7 | 875.2  | 161.5  | 115.0  | 93.3   | 79.9   | 76.1   | 77.4   | 83.6   | 91.3   | 92.6   |
| 50°   | 1448.8 | 962.1  | 178.2  | 122.7  | 98.8   | 80.4   | 74.9   | 75.7   | 82.1   | 90.6   | 91.9   |
| 52.5° | 1630.7 | 1085.2 | 196.3  | 130.1  | 104.5  | 83.6   | 75.9   | 74.2   | 80.1   | 87.6   | 89.1   |
| 55°   | 1833.0 | 1243.3 | 215.0  | 136.9  | 107.5  | 87.6   | 77.8   | 72.1   | 76.4   | 82.7   | 83.9   |
| 57.5° | 2081.4 | 1464.3 | 247.3  | 143.3  | 109.5  | 90.3   | 79.9   | 70.2   | 71.7   | 76.1   | 77.1   |
| 60°   | 2417.6 | 1776.8 | 304.3  | 154.1  | 114.0  | 91.3   | 79.6   | 68.4   | 66.9   | 69.5   | 70.0   |
| 62.5° | 2820.5 | 2116.3 | 351.9  | 167.5  | 121.4  | 92.1   | 78.2   | 67.2   | 62.9   | 62.9   | 63.4   |
| 65°   | 3059.6 | 2207.1 | 325.5  | 178.7  | 127.7  | 91.3   | 76.4   | 66.0   | 59.9   | 57.3   | 57.5   |
| 67.5° | 2856.8 | 1941.0 | 279.0  | 181.0  | 127.5  | 87.9   | 73.7   | 63.7   | 57.0   | 52.8   | 52.5   |
| 69°   | 2602.8 | 1674.8 | 258.1  | 174.9  | 121.4  | 83.4   | 70.2   | 61.2   | 54.7   | 50.2   | 50.0   |
| 70°   | 2397.9 | 1512.3 | 244.4  | 168.5  | 115.0  | 80.1   | 67.4   | 59.0   | 53.0   | 48.8   | 48.3   |
| 72.5° | 1743.4 | 990.9  | 208.8  | 144.8  | 94.8   | 67.2   | 58.2   | 51.8   | 47.3   | 44.8   | 44.3   |
| 75°   | 871.2  | 472.6  | 169.5  | 117.4  | 72.6   | 53.7   | 47.8   | 43.3   | 41.0   | 40.6   | 40.3   |
| 77.5° | 286.2  | 216.5  | 121.2  | 87.6   | 54.0   | 42.0   | 38.6   | 35.3   | 34.9   | 36.3   | 35.8   |
| 80°   | 157.2  | 125.9  | 76.9   | 58.0   | 36.8   | 30.9   | 30.4   | 28.6   | 29.4   | 31.8   | 31.4   |
| 82.5° | 80.1   | 65.5   | 47.6   | 34.9   | 24.9   | 22.2   | 24.1   | 23.1   | 24.1   | 26.4   | 26.1   |
| 85°   | 39.6   | 35.8   | 30.1   | 21.2   | 16.5   | 14.2   | 17.2   | 17.9   | 18.4   | 20.2   | 20.2   |
| 87.5° | 22.9   | 21.2   | 16.0   | 9.9    | 8.2    | 7.5    | 9.9    | 9.7    | 11.5   | 12.5   | 12.2   |
| 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)