

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: P450545

Luminaire Tested: **GLAN-SA1B-760-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5747 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

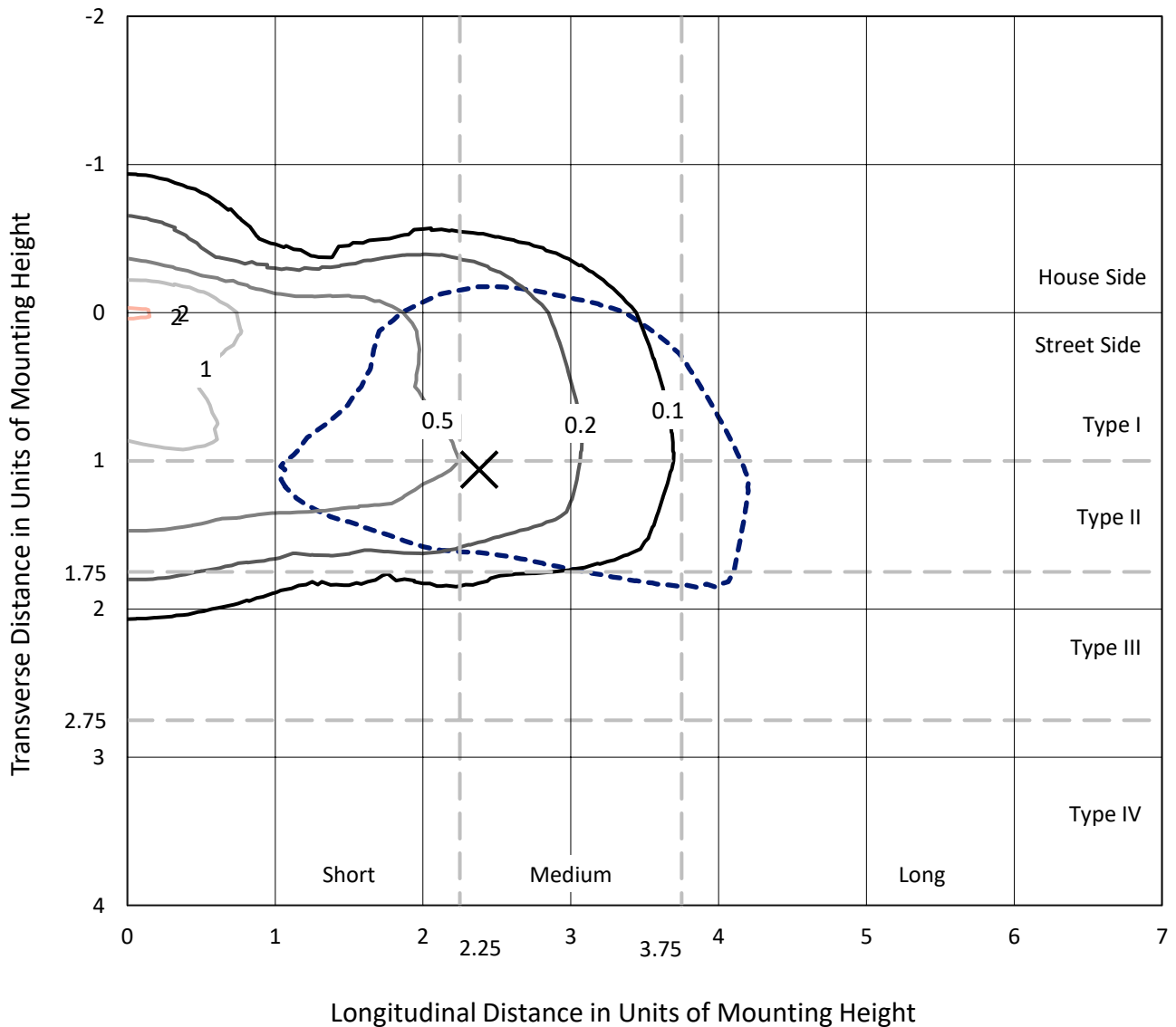
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

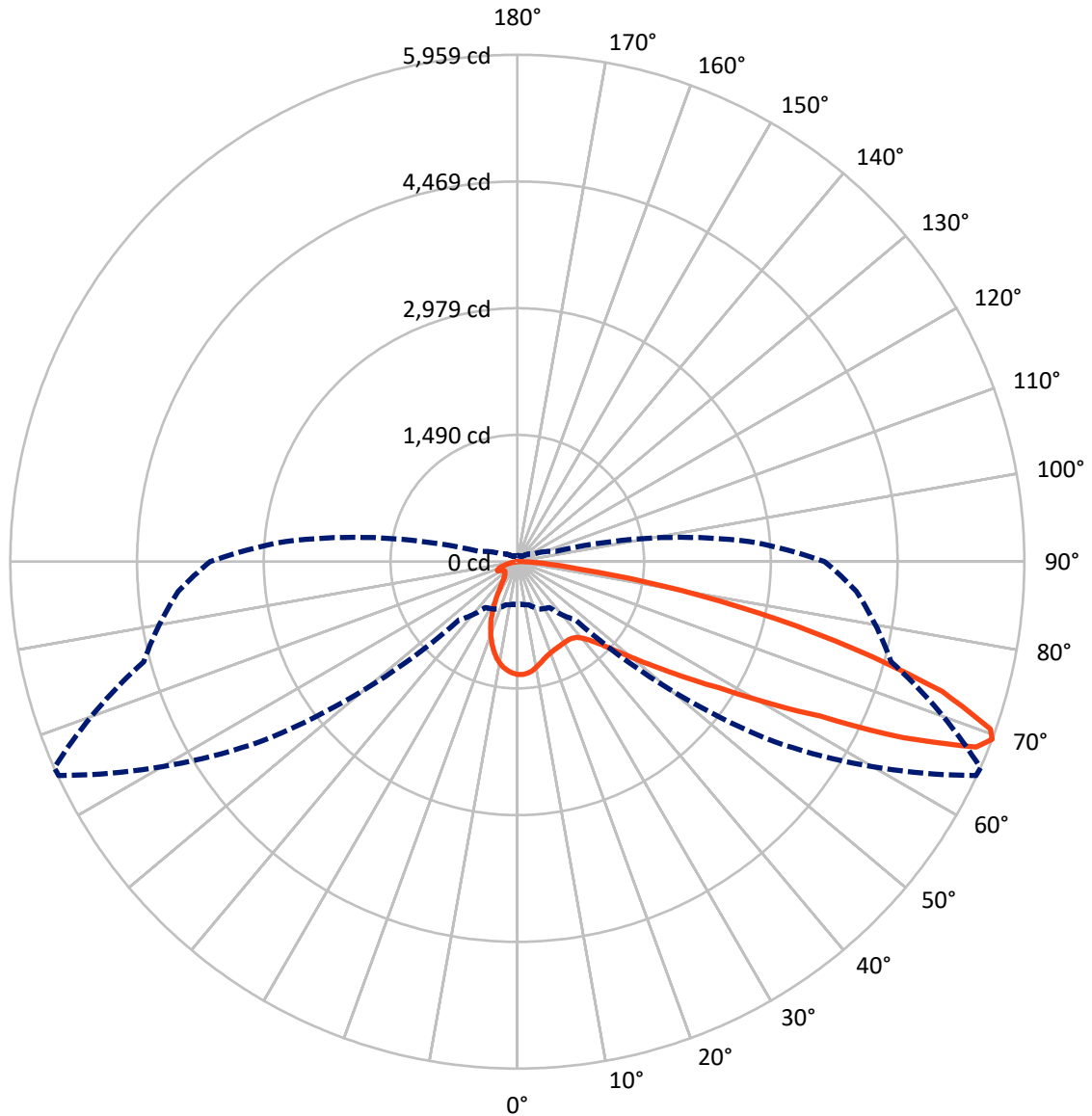
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1080.8   | 0.0    | 1080.8 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 4666.2   | 0.0    | 4666.2 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 5747.0   | 0.0    | 5747.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.2  | 2.0       |
| 10°-20°   | 273.4  | 4.8       |
| 20°-30°   | 372.1  | 6.5       |
| 30°-40°   | 500.1  | 8.7       |
| 40°-50°   | 746.7  | 13.0      |
| 50°-60°   | 1187.7 | 20.7      |
| 60°-70°   | 1460.9 | 25.4      |
| 70°-80°   | 950.5  | 16.5      |
| 80°-90°   | 140.4  | 2.4       |
| 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°    | 5747.0 | 100.0     |
| 0°-180°   | 5747.0 | 100.0     |

**Coefficient of Utilization**



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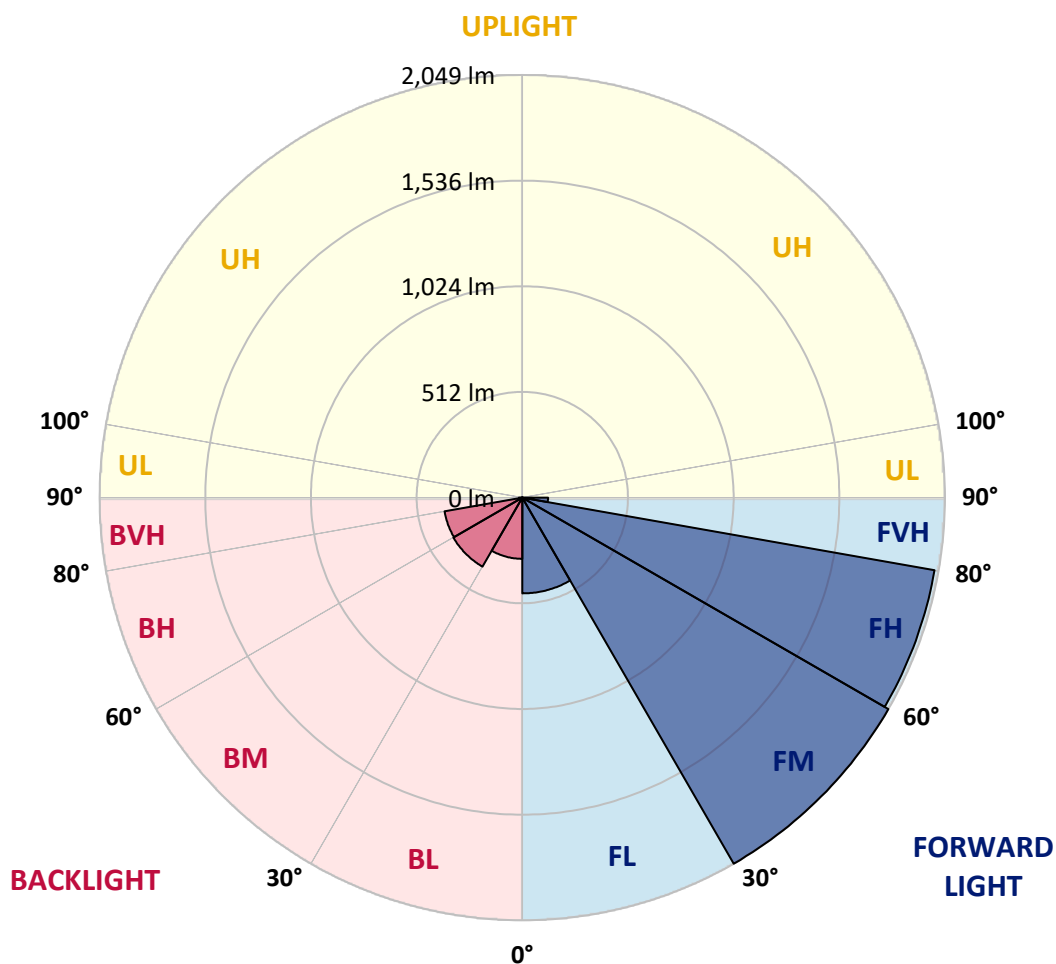
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 464.1  | 8.1       |                         |      |         |
| FM (30°-60°)   | 2048.6 | 35.6      |                         |      |         |
| FH (60°-80°)   | 2028.7 | 35.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 124.8  | 2.2       |                         |      | G2/225  |
| BL (0°-30°)    | 296.7  | 5.2       | B1/500                  |      |         |
| BM (30°-60°)   | 385.9  | 6.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 382.6  | 6.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 15.6   | 0.3       |                         |      | 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°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 |
| 2.5°  | 1280.7 | 1285.8 | 1291.5 | 1297.9 | 1310.0 | 1316.6 | 1321.4 | 1326.8 | 1327.5 | 1330.3 | 1328.1 |
| 5°    | 1186.2 | 1192.2 | 1200.8 | 1212.9 | 1231.0 | 1259.4 | 1288.6 | 1312.5 | 1315.4 | 1328.7 | 1332.6 |
| 7.5°  | 1107.2 | 1110.7 | 1117.7 | 1137.1 | 1162.9 | 1194.4 | 1237.1 | 1285.4 | 1292.5 | 1324.3 | 1335.4 |
| 10°   | 1042.9 | 1046.4 | 1054.7 | 1074.8 | 1100.2 | 1139.7 | 1186.5 | 1250.1 | 1255.9 | 1310.6 | 1336.1 |
| 12.5° | 994.9  | 998.1  | 1007.0 | 1026.7 | 1056.0 | 1092.9 | 1144.5 | 1211.9 | 1220.2 | 1292.5 | 1330.0 |
| 15°   | 958.3  | 964.3  | 971.6  | 987.9  | 1018.7 | 1054.4 | 1104.4 | 1176.9 | 1183.6 | 1273.4 | 1325.9 |
| 17.5° | 942.7  | 945.5  | 950.6  | 965.6  | 988.2  | 1023.2 | 1073.5 | 1149.6 | 1157.5 | 1260.0 | 1324.9 |
| 20°   | 943.3  | 946.2  | 947.1  | 955.4  | 971.6  | 1001.9 | 1051.5 | 1127.9 | 1137.5 | 1248.2 | 1326.5 |
| 22.5° | 965.0  | 965.3  | 961.8  | 958.9  | 965.3  | 990.4  | 1035.9 | 1111.7 | 1122.8 | 1243.1 | 1327.8 |
| 25°   | 998.4  | 1004.1 | 999.0  | 985.6  | 973.9  | 986.0  | 1029.9 | 1102.8 | 1113.3 | 1235.8 | 1326.2 |
| 27.5° | 1052.5 | 1053.4 | 1049.3 | 1031.2 | 1000.6 | 991.7  | 1027.3 | 1096.1 | 1105.0 | 1230.4 | 1318.2 |
| 30°   | 1125.0 | 1122.2 | 1118.4 | 1098.3 | 1050.3 | 1013.7 | 1032.8 | 1090.0 | 1099.3 | 1222.4 | 1308.7 |
| 32.5° | 1198.6 | 1207.5 | 1204.0 | 1180.4 | 1118.0 | 1056.3 | 1050.3 | 1089.4 | 1097.0 | 1216.4 | 1298.2 |
| 35°   | 1276.5 | 1280.7 | 1297.2 | 1285.1 | 1221.2 | 1125.4 | 1083.0 | 1099.3 | 1105.3 | 1216.7 | 1290.9 |
| 37.5° | 1337.6 | 1348.8 | 1387.6 | 1398.1 | 1338.0 | 1216.7 | 1136.2 | 1127.3 | 1129.8 | 1232.3 | 1293.7 |
| 40°   | 1411.5 | 1430.6 | 1480.5 | 1523.5 | 1484.0 | 1335.4 | 1226.6 | 1179.2 | 1182.3 | 1269.9 | 1312.5 |
| 42.5° | 1505.0 | 1518.4 | 1585.6 | 1643.8 | 1637.4 | 1492.3 | 1336.1 | 1264.1 | 1265.7 | 1344.6 | 1365.0 |
| 45°   | 1614.5 | 1633.6 | 1709.1 | 1796.6 | 1811.5 | 1669.9 | 1494.2 | 1392.7 | 1391.7 | 1460.8 | 1463.0 |
| 47.5° | 1754.6 | 1766.3 | 1841.1 | 1936.6 | 1997.1 | 1893.0 | 1686.1 | 1577.3 | 1567.1 | 1630.1 | 1612.0 |
| 50°   | 1883.5 | 1901.9 | 1958.6 | 2063.0 | 2213.5 | 2154.3 | 1938.5 | 1816.6 | 1792.8 | 1851.6 | 1821.1 |
| 52.5° | 1937.6 | 1957.0 | 2004.7 | 2134.2 | 2399.0 | 2492.3 | 2259.0 | 2102.1 | 2062.3 | 2107.5 | 2096.4 |
| 55°   | 1843.7 | 1868.8 | 1913.4 | 2070.9 | 2480.5 | 2882.2 | 2691.2 | 2432.1 | 2403.2 | 2383.8 | 2386.9 |
| 57.5° | 1591.3 | 1615.2 | 1675.3 | 1849.1 | 2383.1 | 3165.1 | 3308.3 | 2856.4 | 2794.3 | 2704.9 | 2720.2 |
| 60°   | 1211.3 | 1226.3 | 1257.4 | 1450.0 | 2094.5 | 3238.6 | 4009.1 | 3392.6 | 3353.2 | 3024.7 | 3035.6 |
| 62.5° | 860.3  | 877.1  | 898.8  | 994.9  | 1533.4 | 3031.4 | 4557.8 | 4141.5 | 4000.5 | 3356.0 | 3345.5 |
| 65°   | 698.6  | 687.1  | 713.2  | 758.1  | 899.7  | 2349.4 | 4681.3 | 5180.9 | 4986.8 | 3792.4 | 3646.6 |
| 67.5° | 574.5  | 562.4  | 588.1  | 668.0  | 684.3  | 1363.7 | 4236.4 | 5855.7 | 5816.8 | 4266.9 | 3952.5 |
| 69°   | 508.6  | 502.2  | 524.8  | 615.8  | 656.9  | 968.5  | 3690.5 | 5949.5 | 5958.8 | 4546.7 | 3999.6 |
| 70°   | 458.3  | 460.8  | 482.8  | 589.4  | 644.5  | 798.5  | 3154.3 | 5820.0 | 5898.3 | 4686.4 | 3948.6 |
| 72.5° | 337.4  | 342.8  | 373.3  | 488.2  | 632.7  | 677.6  | 1877.1 | 5083.6 | 5222.0 | 4694.6 | 3612.2 |
| 75°   | 235.8  | 233.3  | 260.3  | 367.6  | 597.7  | 671.5  | 1102.5 | 3931.5 | 4088.4 | 4057.8 | 3035.2 |
| 77.5° | 154.4  | 158.5  | 180.1  | 259.7  | 502.8  | 666.4  | 718.6  | 2789.2 | 2891.1 | 2713.8 | 1795.3 |
| 80°   | 108.8  | 108.5  | 120.6  | 177.3  | 373.0  | 640.3  | 588.5  | 1758.1 | 1732.3 | 1066.5 | 532.4  |
| 82.5° | 62.4   | 66.8   | 80.8   | 124.8  | 249.5  | 563.6  | 541.4  | 840.8  | 767.6  | 303.9  | 179.8  |
| 85°   | 34.7   | 36.3   | 48.1   | 75.4   | 145.8  | 424.6  | 472.6  | 382.5  | 360.9  | 127.0  | 77.3   |
| 87.5° | 11.1   | 12.1   | 20.1   | 38.2   | 66.2   | 200.5  | 267.7  | 176.6  | 162.9  | 45.8   | 31.2   |
| 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°    | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 | 1327.1 |
| 2.5°  | 1329.1 | 1332.9 | 1322.7 | 1312.8 | 1303.9 | 1291.5 | 1280.4 | 1271.1 | 1264.8 | 1263.8 | 1260.6 |
| 5°    | 1333.5 | 1333.8 | 1314.4 | 1288.3 | 1262.9 | 1234.8 | 1205.9 | 1185.2 | 1165.8 | 1155.0 | 1149.6 |
| 7.5°  | 1336.7 | 1333.8 | 1298.8 | 1256.5 | 1207.5 | 1156.6 | 1105.6 | 1064.9 | 1033.4 | 1021.0 | 1025.8 |
| 10°   | 1335.4 | 1326.5 | 1275.3 | 1207.5 | 1136.2 | 1060.1 | 986.9  | 929.6  | 877.1  | 850.1  | 850.7  |
| 12.5° | 1328.4 | 1313.8 | 1240.3 | 1152.4 | 1047.7 | 945.9  | 833.8  | 756.5  | 695.7  | 659.8  | 648.6  |
| 15°   | 1322.4 | 1296.9 | 1199.2 | 1077.6 | 947.5  | 802.0  | 665.5  | 570.0  | 519.1  | 490.8  | 490.4  |
| 17.5° | 1316.0 | 1280.7 | 1154.3 | 998.4  | 832.2  | 645.1  | 501.9  | 429.0  | 405.1  | 408.0  | 403.2  |
| 20°   | 1309.3 | 1261.6 | 1107.5 | 910.2  | 691.9  | 481.2  | 375.9  | 346.3  | 352.9  | 366.0  | 367.9  |
| 22.5° | 1301.7 | 1241.2 | 1057.3 | 813.2  | 544.2  | 362.2  | 304.9  | 300.4  | 317.6  | 338.0  | 340.9  |
| 25°   | 1289.9 | 1215.8 | 993.9  | 711.6  | 419.8  | 291.8  | 267.0  | 270.2  | 287.1  | 304.3  | 306.2  |
| 27.5° | 1273.4 | 1184.2 | 930.0  | 585.0  | 315.4  | 250.5  | 244.1  | 248.2  | 256.5  | 267.0  | 269.6  |
| 30°   | 1251.1 | 1148.6 | 856.4  | 475.5  | 252.7  | 229.8  | 227.2  | 229.5  | 234.2  | 238.7  | 240.0  |
| 32.5° | 1228.8 | 1114.2 | 782.3  | 364.1  | 225.3  | 216.1  | 213.6  | 213.6  | 213.6  | 214.2  | 214.5  |
| 35°   | 1208.1 | 1081.8 | 702.7  | 283.6  | 211.0  | 205.3  | 201.8  | 198.0  | 197.3  | 195.1  | 195.1  |
| 37.5° | 1196.7 | 1052.2 | 618.1  | 237.4  | 200.5  | 196.4  | 191.6  | 185.2  | 181.7  | 182.0  | 181.4  |
| 40°   | 1198.9 | 1032.8 | 541.0  | 211.3  | 191.9  | 187.5  | 180.1  | 172.8  | 170.6  | 170.6  | 170.0  |
| 42.5° | 1224.0 | 1026.4 | 467.2  | 197.6  | 183.6  | 178.5  | 169.3  | 162.6  | 161.4  | 161.0  | 161.7  |
| 45°   | 1281.9 | 1042.0 | 401.0  | 188.7  | 176.6  | 169.0  | 159.8  | 153.7  | 152.4  | 152.4  | 152.1  |
| 47.5° | 1394.9 | 1092.6 | 353.6  | 183.0  | 171.5  | 161.7  | 152.1  | 146.1  | 143.9  | 143.2  | 143.2  |
| 50°   | 1570.6 | 1202.4 | 318.3  | 177.9  | 165.2  | 155.0  | 145.1  | 138.1  | 134.6  | 134.3  | 134.0  |
| 52.5° | 1814.7 | 1373.6 | 304.6  | 174.1  | 158.2  | 148.0  | 137.2  | 130.5  | 126.0  | 125.1  | 124.4  |
| 55°   | 2100.2 | 1612.6 | 323.4  | 171.2  | 150.9  | 140.0  | 128.9  | 121.9  | 117.8  | 115.8  | 115.5  |
| 57.5° | 2430.9 | 1899.7 | 394.6  | 167.4  | 144.2  | 131.4  | 120.6  | 113.6  | 109.2  | 106.9  | 106.3  |
| 60°   | 2727.8 | 2194.7 | 519.1  | 165.2  | 138.4  | 122.2  | 111.1  | 104.7  | 100.6  | 98.3   | 98.0   |
| 62.5° | 3054.0 | 2476.1 | 667.7  | 171.2  | 135.9  | 113.3  | 102.2  | 96.4   | 92.9   | 90.7   | 90.7   |
| 65°   | 3402.5 | 2757.7 | 766.1  | 191.6  | 139.7  | 106.3  | 92.6   | 87.8   | 84.7   | 83.1   | 82.7   |
| 67.5° | 3637.4 | 2855.1 | 631.1  | 212.6  | 149.3  | 98.7   | 83.4   | 79.6   | 77.7   | 76.1   | 76.1   |
| 69°   | 3611.9 | 2731.9 | 465.6  | 218.0  | 152.1  | 94.8   | 78.3   | 75.4   | 72.9   | 72.2   | 71.6   |
| 70°   | 3531.4 | 2591.6 | 390.2  | 214.5  | 149.9  | 91.3   | 75.1   | 71.6   | 69.4   | 68.7   | 68.4   |
| 72.5° | 3145.4 | 2247.5 | 290.6  | 186.5  | 127.6  | 79.2   | 66.5   | 63.3   | 61.4   | 60.5   | 60.5   |
| 75°   | 2613.2 | 1837.0 | 226.9  | 148.3  | 99.9   | 66.8   | 57.0   | 54.4   | 52.8   | 52.2   | 51.9   |
| 77.5° | 1464.6 | 1025.8 | 162.9  | 116.2  | 75.7   | 54.1   | 47.7   | 45.5   | 43.9   | 43.3   | 43.3   |
| 80°   | 408.0  | 293.1  | 95.8   | 76.7   | 51.6   | 41.1   | 37.9   | 36.3   | 34.1   | 32.5   | 33.4   |
| 82.5° | 153.7  | 127.0  | 54.7   | 46.1   | 32.8   | 27.4   | 26.4   | 25.1   | 24.2   | 22.0   | 22.0   |
| 85°   | 74.8   | 61.7   | 35.0   | 24.5   | 18.1   | 14.3   | 13.7   | 13.0   | 12.4   | 10.8   | 11.1   |
| 87.5° | 25.8   | 27.4   | 15.3   | 8.9    | 5.4    | 3.5    | 2.9    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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)