

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: P648730

Luminaire Tested: **GLAN-SA1C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1C-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4862.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

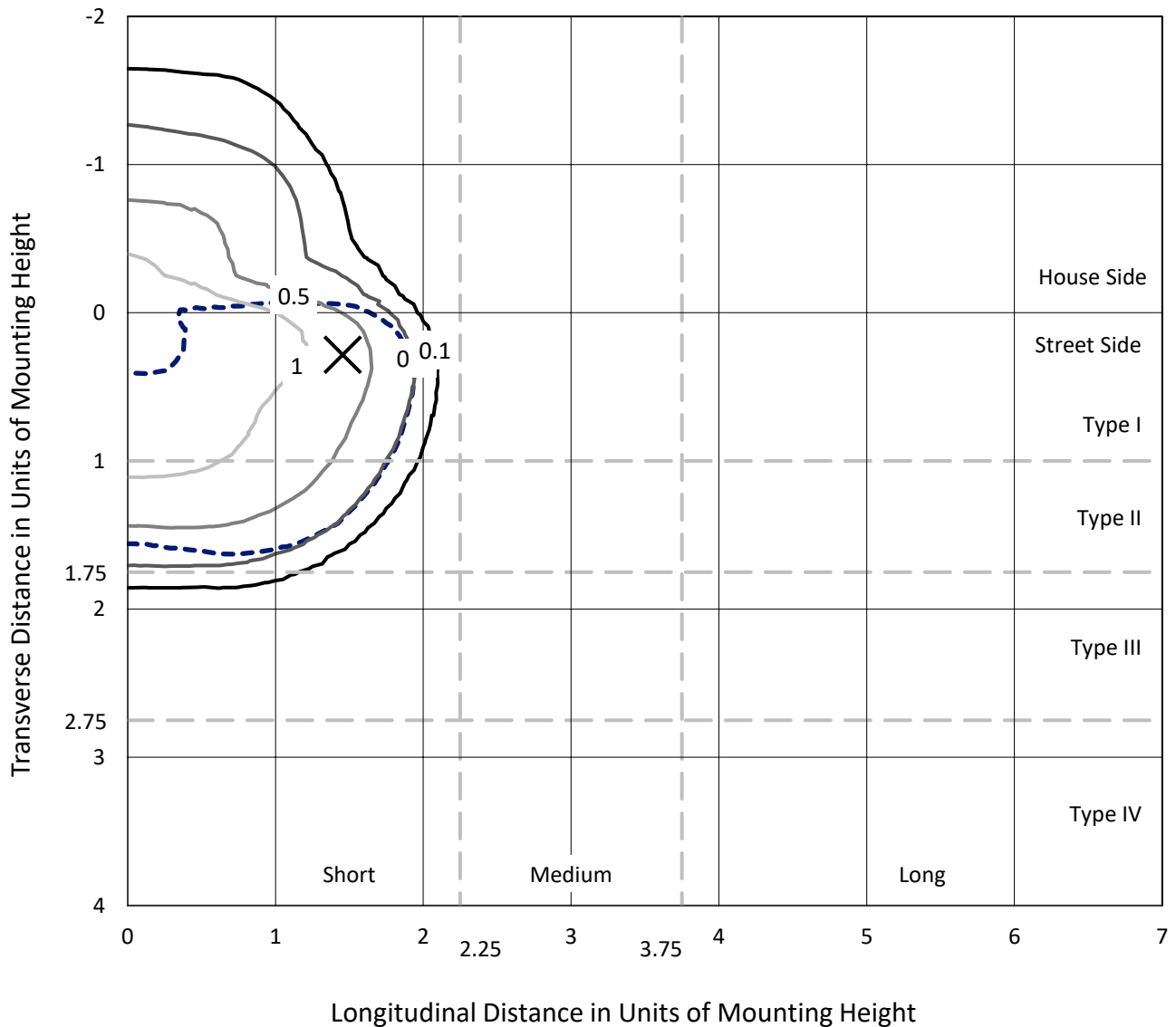
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

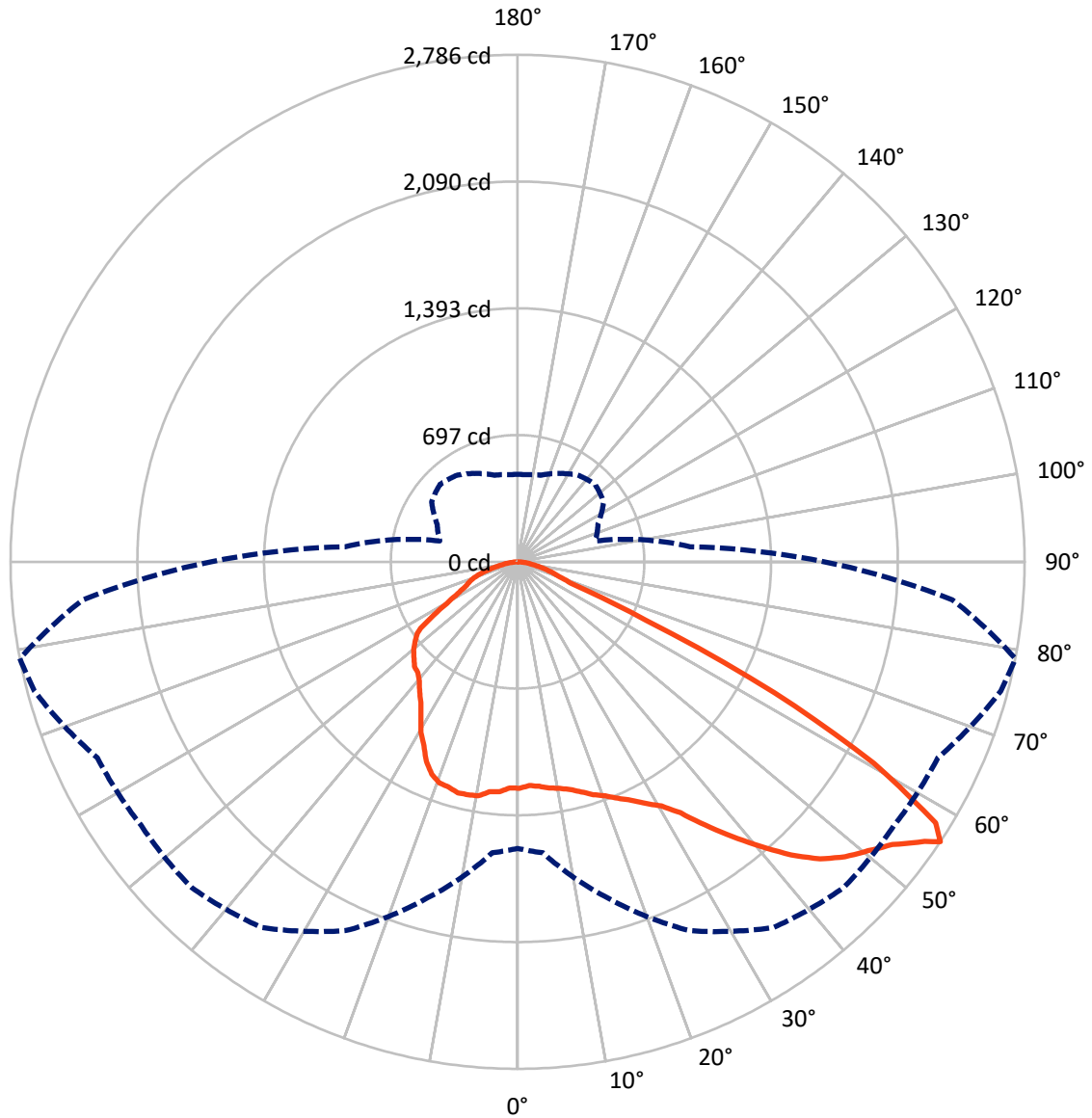
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1436.0   | 0.0    | 1436.0 |
|                    | % Fixture | 29.5     | 0.0    | 29.5   |
| <b>Street Side</b> | Lumens    | 3426.5   | 0.0    | 3426.5 |
|                    | % Fixture | 70.5     | 0.0    | 70.5   |
| <b>Total</b>       | Lumens    | 4862.4   | 0.0    | 4862.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.1  | 2.3       |
| 10°-20°   | 309.6  | 6.4       |
| 20°-30°   | 529.6  | 10.9      |
| 30°-40°   | 811.7  | 16.7      |
| 40°-50°   | 1097.0 | 22.6      |
| 50°-60°   | 1259.9 | 25.9      |
| 60°-70°   | 574.3  | 11.8      |
| 70°-80°   | 141.6  | 2.9       |
| 80°-90°   | 25.7   | 0.5       |
| 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°    | 4862.4 | 100.0     |
| 0°-180°   | 4862.4 | 100.0     |

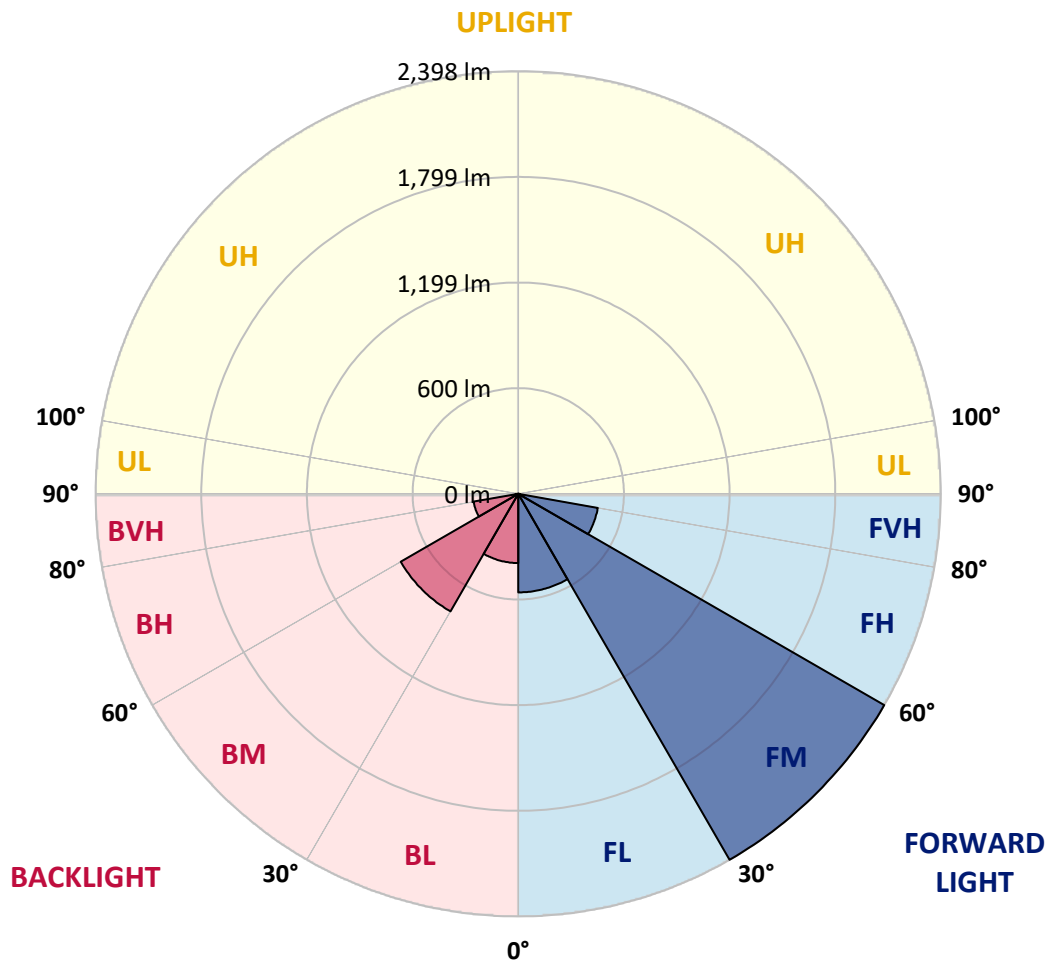


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 559.5  | 11.5      |                         |      |        |
| FM (30°-60°)   | 2398.3 | 49.3      |                         |      |        |
| FH (60°-80°)   | 458.4  | 9.4       |                         |      | G0/660 |
| FVH (80°-90°)  | 10.3   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 392.8  | 8.1       | B1/500                  |      |        |
| BM (30°-60°)   | 770.2  | 15.8      | B1/1000                 |      |        |
| BH (60°-80°)   | 257.5  | 5.3       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 15.5   | 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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 |
| 2.5°  | 1183.5 | 1180.5 | 1187.8 | 1193.2 | 1199.9 | 1208.4 | 1212.6 | 1215.1 | 1236.2 | 1230.8 | 1247.2 |
| 5°    | 1158.1 | 1150.2 | 1155.7 | 1159.9 | 1171.4 | 1181.7 | 1193.2 | 1211.4 | 1230.8 | 1239.3 | 1259.2 |
| 7.5°  | 1135.7 | 1131.4 | 1130.3 | 1133.2 | 1149.0 | 1162.4 | 1182.3 | 1209.0 | 1240.5 | 1254.4 | 1265.9 |
| 10°   | 1098.7 | 1092.7 | 1101.8 | 1121.7 | 1126.0 | 1153.8 | 1176.8 | 1215.1 | 1242.3 | 1266.5 | 1300.4 |
| 12.5° | 1082.4 | 1076.3 | 1078.1 | 1089.6 | 1119.3 | 1146.0 | 1173.2 | 1216.2 | 1273.8 | 1283.5 | 1328.9 |
| 15°   | 1108.4 | 1102.4 | 1104.2 | 1101.1 | 1129.6 | 1143.6 | 1186.6 | 1240.5 | 1295.6 | 1311.9 | 1360.4 |
| 17.5° | 1167.8 | 1168.4 | 1160.5 | 1153.8 | 1147.2 | 1176.8 | 1206.5 | 1255.0 | 1304.1 | 1345.3 | 1381.6 |
| 20°   | 1281.1 | 1261.1 | 1245.3 | 1207.8 | 1197.4 | 1210.2 | 1247.7 | 1294.4 | 1338.6 | 1372.5 | 1413.7 |
| 22.5° | 1368.3 | 1370.1 | 1347.7 | 1285.9 | 1263.4 | 1268.9 | 1301.0 | 1339.2 | 1387.6 | 1411.9 | 1459.1 |
| 25°   | 1494.8 | 1482.1 | 1457.9 | 1408.9 | 1358.6 | 1362.8 | 1386.5 | 1421.0 | 1434.3 | 1451.3 | 1502.7 |
| 27.5° | 1610.6 | 1614.2 | 1566.3 | 1520.3 | 1457.9 | 1445.8 | 1488.2 | 1494.3 | 1471.9 | 1504.0 | 1521.5 |
| 30°   | 1728.1 | 1725.0 | 1693.6 | 1639.6 | 1578.4 | 1580.9 | 1599.7 | 1570.0 | 1539.1 | 1556.7 | 1568.7 |
| 32.5° | 1849.8 | 1815.3 | 1814.1 | 1765.6 | 1719.0 | 1696.5 | 1673.5 | 1688.1 | 1640.2 | 1643.8 | 1632.3 |
| 35°   | 1947.3 | 1952.2 | 1924.3 | 1889.8 | 1866.8 | 1827.4 | 1764.4 | 1790.4 | 1781.3 | 1777.1 | 1727.5 |
| 37.5° | 2018.2 | 1999.4 | 2013.3 | 2001.8 | 1980.1 | 1931.0 | 1865.6 | 1890.4 | 1894.6 | 1915.2 | 1857.7 |
| 40°   | 2076.4 | 2068.5 | 2105.4 | 2111.4 | 2096.3 | 1990.3 | 1872.8 | 1946.7 | 2010.3 | 2055.1 | 1986.7 |
| 42.5° | 2104.2 | 2121.1 | 2159.9 | 2206.6 | 2172.7 | 2059.4 | 1910.4 | 1989.7 | 2131.5 | 2202.3 | 2109.0 |
| 45°   | 2141.7 | 2120.0 | 2177.4 | 2262.9 | 2263.5 | 2117.5 | 1946.7 | 2047.9 | 2225.9 | 2328.9 | 2192.6 |
| 47.5° | 2103.6 | 2114.5 | 2173.8 | 2282.3 | 2310.2 | 2178.7 | 2044.8 | 2130.2 | 2330.1 | 2421.6 | 2270.2 |
| 50°   | 2018.2 | 2040.0 | 2148.4 | 2261.1 | 2345.2 | 2243.5 | 2157.5 | 2219.3 | 2426.4 | 2496.0 | 2282.8 |
| 52.5° | 1929.2 | 1941.3 | 2110.9 | 2277.4 | 2361.0 | 2327.1 | 2308.3 | 2342.3 | 2544.0 | 2580.3 | 2298.7 |
| 55°   | 1686.9 | 1744.4 | 1986.7 | 2270.2 | 2437.9 | 2477.9 | 2463.4 | 2513.0 | 2677.2 | 2713.6 | 2384.6 |
| 56°   | 1574.8 | 1605.1 | 1912.2 | 2236.2 | 2453.1 | 2533.0 | 2525.7 | 2548.2 | 2748.0 | 2786.2 | 2397.9 |
| 57.5° | 1367.7 | 1370.1 | 1630.5 | 2086.0 | 2396.1 | 2549.4 | 2542.1 | 2559.7 | 2734.2 | 2708.1 | 2281.0 |
| 60°   | 855.8  | 893.4  | 1109.7 | 1604.5 | 2037.6 | 2365.3 | 2406.5 | 2265.3 | 2305.3 | 2250.2 | 1774.7 |
| 62.5° | 443.3  | 437.9  | 581.5  | 938.2  | 1352.6 | 1693.6 | 1731.7 | 1725.0 | 1663.2 | 1582.7 | 1159.3 |
| 65°   | 221.0  | 222.3  | 304.0  | 464.6  | 693.0  | 886.7  | 993.3  | 1004.8 | 840.7  | 773.4  | 550.0  |
| 67.5° | 160.5  | 166.5  | 218.7  | 284.1  | 326.4  | 365.3  | 447.6  | 439.1  | 332.5  | 316.2  | 293.2  |
| 70°   | 124.8  | 130.2  | 177.5  | 216.8  | 196.8  | 196.8  | 214.4  | 221.7  | 236.9  | 243.5  | 251.3  |
| 72.5° | 90.8   | 95.1   | 135.7  | 149.6  | 129.0  | 138.7  | 160.5  | 177.5  | 193.2  | 195.7  | 204.8  |
| 75°   | 62.4   | 66.0   | 89.0   | 82.4   | 77.5   | 95.7   | 117.5  | 133.3  | 144.8  | 150.8  | 156.3  |
| 77.5° | 40.6   | 41.8   | 50.9   | 43.0   | 49.6   | 61.8   | 76.3   | 89.7   | 101.2  | 106.0  | 107.2  |
| 80°   | 18.2   | 20.0   | 21.8   | 27.2   | 34.5   | 44.2   | 54.5   | 65.4   | 72.7   | 74.5   | 78.1   |
| 82.5° | 10.3   | 10.3   | 13.3   | 19.4   | 25.4   | 32.1   | 39.4   | 47.2   | 55.7   | 57.6   | 56.9   |
| 85°   | 5.5    | 5.5    | 7.9    | 11.5   | 15.7   | 18.8   | 18.2   | 18.8   | 20.0   | 23.0   | 22.4   |
| 87.5° | 1.8    | 1.8    | 2.4    | 2.4    | 3.1    | 3.6    | 3.1    | 4.2    | 5.5    | 5.5    | 5.5    |
| 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°    | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 | 1244.1 |
| 2.5°  | 1242.3 | 1247.7 | 1240.5 | 1256.2 | 1256.2 | 1253.2 | 1238.1 | 1242.9 | 1246.5 | 1246.5 | 1249.6 |
| 5°    | 1265.9 | 1264.1 | 1268.9 | 1250.1 | 1238.6 | 1234.4 | 1209.6 | 1197.4 | 1187.2 | 1186.6 | 1177.5 |
| 7.5°  | 1279.3 | 1274.4 | 1272.6 | 1258.7 | 1207.8 | 1176.8 | 1123.6 | 1092.7 | 1086.0 | 1062.4 | 1071.5 |
| 10°   | 1300.4 | 1309.5 | 1300.4 | 1224.7 | 1153.8 | 1083.0 | 1030.9 | 983.1  | 964.3  | 949.2  | 940.1  |
| 12.5° | 1344.0 | 1339.8 | 1287.1 | 1184.8 | 1085.4 | 1001.2 | 923.7  | 873.4  | 854.6  | 841.3  | 840.1  |
| 15°   | 1381.0 | 1359.8 | 1279.3 | 1121.7 | 978.8  | 889.2  | 825.6  | 789.8  | 781.4  | 782.5  | 788.0  |
| 17.5° | 1393.7 | 1379.2 | 1238.1 | 1056.3 | 899.4  | 794.0  | 764.4  | 759.0  | 766.8  | 775.9  | 778.3  |
| 20°   | 1413.7 | 1390.7 | 1221.1 | 967.3  | 801.3  | 734.7  | 732.9  | 752.3  | 766.8  | 780.1  | 782.0  |
| 22.5° | 1455.5 | 1397.3 | 1166.0 | 883.1  | 734.1  | 717.1  | 734.7  | 751.1  | 773.4  | 784.4  | 774.7  |
| 25°   | 1467.6 | 1382.8 | 1088.4 | 782.0  | 691.7  | 706.3  | 725.1  | 747.5  | 763.2  | 769.2  | 773.4  |
| 27.5° | 1477.9 | 1360.4 | 983.7  | 714.7  | 678.4  | 705.6  | 725.1  | 743.8  | 752.3  | 757.7  | 762.6  |
| 30°   | 1507.0 | 1353.7 | 892.8  | 669.9  | 669.9  | 693.5  | 718.3  | 723.2  | 734.7  | 741.3  | 749.9  |
| 32.5° | 1521.5 | 1307.7 | 799.5  | 641.4  | 661.4  | 699.6  | 701.4  | 710.5  | 711.1  | 716.5  | 707.4  |
| 35°   | 1559.7 | 1275.0 | 712.9  | 620.8  | 665.1  | 693.5  | 702.6  | 697.2  | 667.5  | 652.9  | 656.0  |
| 37.5° | 1587.5 | 1258.7 | 650.5  | 618.4  | 665.6  | 700.2  | 705.0  | 663.8  | 633.0  | 608.7  | 614.8  |
| 40°   | 1662.6 | 1218.0 | 603.3  | 614.2  | 671.1  | 707.4  | 694.1  | 649.3  | 593.6  | 568.8  | 564.5  |
| 42.5° | 1720.2 | 1189.0 | 573.6  | 609.3  | 675.3  | 717.8  | 688.6  | 620.2  | 563.3  | 540.3  | 546.4  |
| 45°   | 1786.8 | 1182.3 | 557.8  | 610.5  | 682.6  | 723.2  | 682.0  | 597.8  | 537.2  | 528.1  | 526.3  |
| 47.5° | 1810.5 | 1134.5 | 540.9  | 600.2  | 680.8  | 721.4  | 659.6  | 580.8  | 527.6  | 528.8  | 533.6  |
| 50°   | 1771.1 | 1085.4 | 528.1  | 579.0  | 668.7  | 705.0  | 624.4  | 558.4  | 522.1  | 537.2  | 545.8  |
| 52.5° | 1720.8 | 1035.1 | 502.1  | 550.6  | 643.9  | 679.6  | 608.2  | 557.3  | 516.6  | 511.8  | 513.6  |
| 55°   | 1735.9 | 993.9  | 465.8  | 511.8  | 603.8  | 632.4  | 589.9  | 545.8  | 503.3  | 485.1  | 491.3  |
| 56°   | 1686.9 | 951.6  | 442.2  | 487.6  | 576.6  | 602.0  | 580.8  | 535.4  | 492.4  | 480.3  | 480.3  |
| 57.5° | 1548.1 | 809.2  | 411.2  | 448.8  | 519.1  | 549.4  | 563.3  | 529.4  | 480.3  | 459.2  | 459.7  |
| 60°   | 1141.8 | 575.4  | 368.9  | 395.5  | 430.0  | 454.3  | 519.1  | 512.4  | 450.1  | 435.5  | 430.0  |
| 62.5° | 703.8  | 420.4  | 338.6  | 348.9  | 366.4  | 386.4  | 453.0  | 463.9  | 418.0  | 402.1  | 398.5  |
| 65°   | 394.3  | 321.7  | 315.5  | 319.8  | 328.3  | 338.6  | 376.2  | 400.3  | 368.9  | 344.7  | 343.4  |
| 67.5° | 288.3  | 287.7  | 292.5  | 296.2  | 299.8  | 299.8  | 308.9  | 318.6  | 314.4  | 295.0  | 293.2  |
| 70°   | 256.2  | 258.0  | 261.7  | 262.3  | 263.5  | 259.3  | 252.0  | 248.9  | 253.8  | 241.7  | 239.3  |
| 72.5° | 211.4  | 217.4  | 221.7  | 222.3  | 215.6  | 210.2  | 200.4  | 190.2  | 186.6  | 184.2  | 183.5  |
| 75°   | 162.3  | 166.5  | 168.3  | 167.8  | 165.4  | 157.5  | 146.0  | 135.7  | 129.0  | 121.8  | 125.4  |
| 77.5° | 109.6  | 115.7  | 118.7  | 118.7  | 115.1  | 103.0  | 97.5   | 89.7   | 83.0   | 75.1   | 76.3   |
| 80°   | 76.9   | 81.2   | 86.0   | 85.4   | 79.3   | 73.3   | 65.4   | 58.2   | 52.7   | 46.7   | 46.0   |
| 82.5° | 57.6   | 60.0   | 62.4   | 61.2   | 56.9   | 50.9   | 45.4   | 38.8   | 32.7   | 28.5   | 28.5   |
| 85°   | 20.6   | 22.4   | 27.2   | 28.5   | 30.9   | 30.9   | 26.1   | 21.8   | 17.5   | 14.6   | 14.6   |
| 87.5° | 6.0    | 6.0    | 6.7    | 6.7    | 6.0    | 6.7    | 5.5    | 6.0    | 6.7    | 4.2    | 4.2    |
| 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)