

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: P319435

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-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: 5862 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

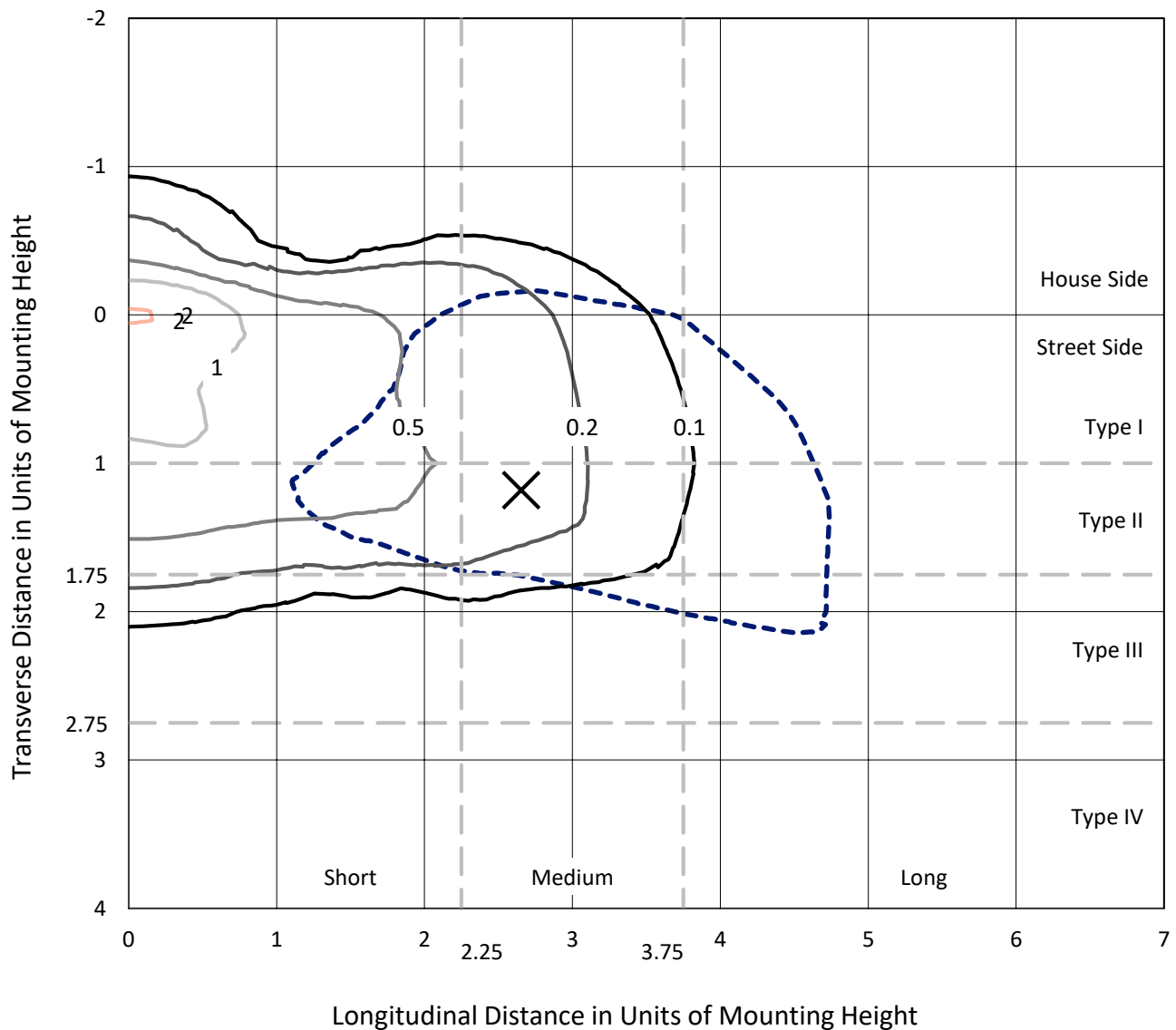


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## Iso-Footcandle Lines of Horizontal Illumination

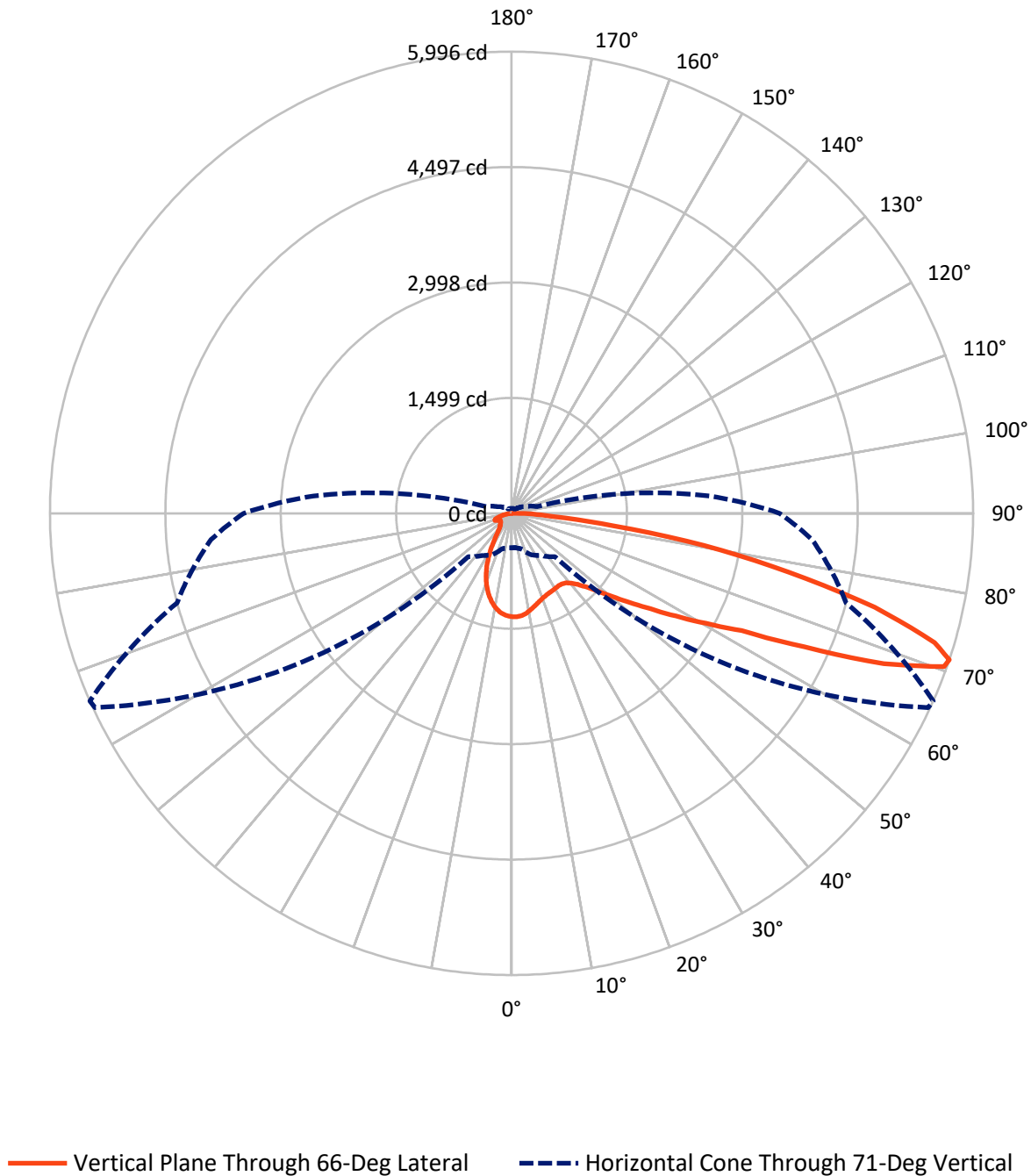
✕ Max cd  
 - - - 1/2 Max cd



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



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1086.4   | 0.0    | 1086.4 |
|                    | % Fixture | 18.5     | 0.0    | 18.5   |
| <b>Street Side</b> | Lumens    | 4775.6   | 0.0    | 4775.6 |
|                    | % Fixture | 81.5     | 0.0    | 81.5   |
| <b>Total</b>       | Lumens    | 5862.0   | 0.0    | 5862.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.2  | 2.0       |
| 10°-20°   | 283.5  | 4.8       |
| 20°-30°   | 380.8  | 6.5       |
| 30°-40°   | 501.0  | 8.5       |
| 40°-50°   | 728.8  | 12.4      |
| 50°-60°   | 1138.4 | 19.4      |
| 60°-70°   | 1426.1 | 24.3      |
| 70°-80°   | 1087.8 | 18.6      |
| 80°-90°   | 197.5  | 3.4       |
| 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°    | 5862.0 | 100.0     |
| 0°-180°   | 5862.0 | 100.0     |

**Coefficient of Utilization**



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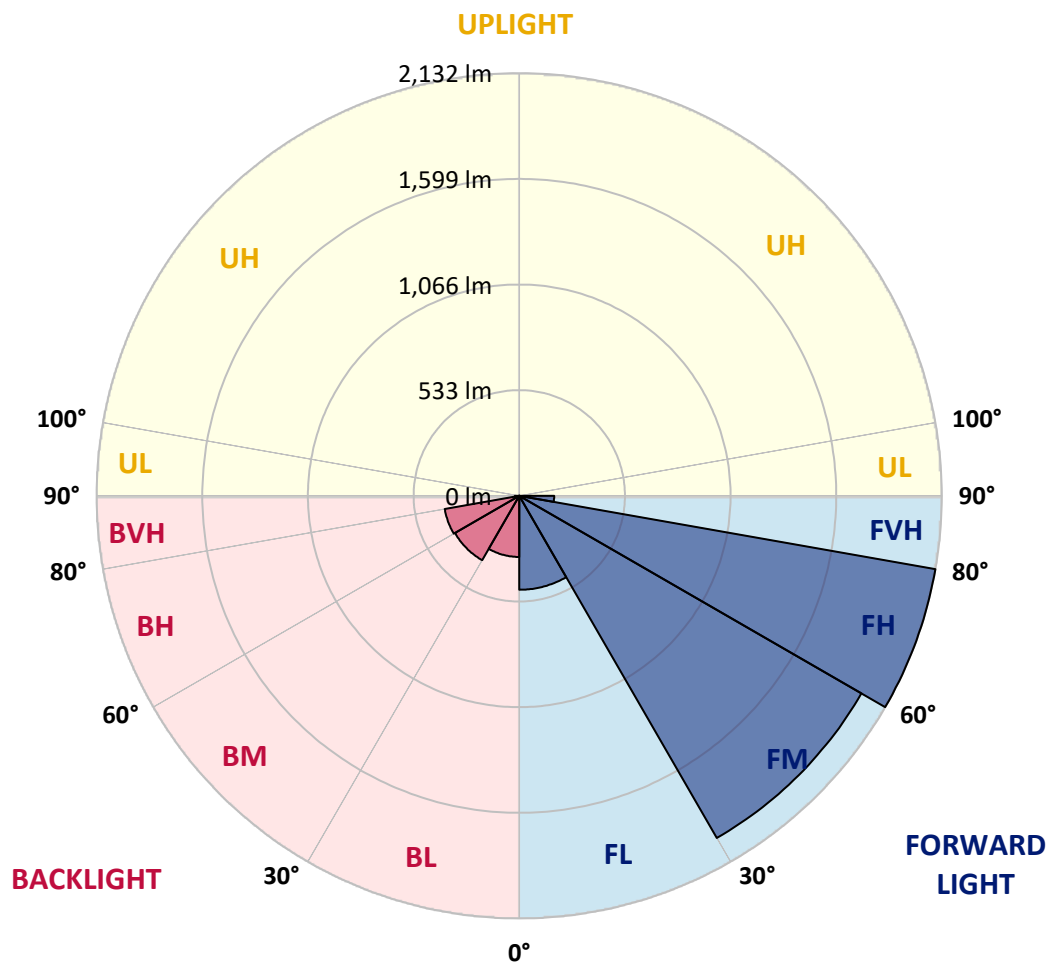
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 474.0  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 1993.4 | 34.0      |                         |      |         |
| FH   | (60°-80°)   | 2132.1 | 36.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 176.1  | 3.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 308.5  | 5.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 374.8  | 6.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 381.7  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.4   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 |
| 2.5°  | 1318.0 | 1316.0 | 1322.0 | 1328.3 | 1330.7 | 1334.8 | 1340.8 | 1344.3 | 1344.1 | 1344.7 | 1342.7 |
| 5°    | 1230.5 | 1227.9 | 1240.1 | 1250.0 | 1269.0 | 1290.5 | 1316.6 | 1335.2 | 1335.6 | 1346.1 | 1348.9 |
| 7.5°  | 1147.8 | 1145.9 | 1159.9 | 1175.9 | 1198.0 | 1230.7 | 1273.0 | 1313.1 | 1315.5 | 1344.1 | 1354.0 |
| 10°   | 1081.4 | 1081.0 | 1094.5 | 1111.9 | 1137.6 | 1174.3 | 1222.9 | 1281.5 | 1285.2 | 1334.4 | 1354.8 |
| 12.5° | 1029.6 | 1030.4 | 1042.1 | 1062.0 | 1089.1 | 1127.3 | 1179.9 | 1246.1 | 1252.0 | 1319.0 | 1350.2 |
| 15°   | 991.3  | 994.6  | 1004.1 | 1024.1 | 1050.8 | 1089.7 | 1143.7 | 1213.3 | 1222.2 | 1301.8 | 1347.5 |
| 17.5° | 969.5  | 973.1  | 979.8  | 996.4  | 1021.5 | 1058.9 | 1110.1 | 1186.4 | 1194.5 | 1288.6 | 1347.7 |
| 20°   | 963.0  | 966.0  | 969.9  | 980.0  | 1001.2 | 1035.2 | 1083.6 | 1162.1 | 1170.8 | 1278.1 | 1349.8 |
| 22.5° | 975.7  | 978.0  | 978.4  | 977.6  | 990.5  | 1018.2 | 1064.4 | 1144.3 | 1153.6 | 1271.2 | 1351.2 |
| 25°   | 1003.1 | 1006.1 | 1003.9 | 996.4  | 992.1  | 1009.1 | 1054.5 | 1132.6 | 1141.9 | 1266.2 | 1348.3 |
| 27.5° | 1044.1 | 1044.5 | 1042.7 | 1033.0 | 1013.0 | 1010.1 | 1051.4 | 1125.7 | 1134.6 | 1260.3 | 1342.5 |
| 30°   | 1100.0 | 1102.6 | 1099.4 | 1086.2 | 1053.5 | 1026.3 | 1055.1 | 1119.0 | 1127.1 | 1252.8 | 1333.0 |
| 32.5° | 1165.4 | 1171.8 | 1171.6 | 1157.9 | 1110.9 | 1062.6 | 1070.0 | 1115.0 | 1121.3 | 1244.9 | 1321.4 |
| 35°   | 1233.2 | 1242.1 | 1258.7 | 1252.8 | 1194.7 | 1119.8 | 1098.8 | 1121.5 | 1125.7 | 1243.9 | 1313.3 |
| 37.5° | 1303.6 | 1312.5 | 1346.7 | 1362.5 | 1294.5 | 1201.8 | 1144.1 | 1144.3 | 1146.3 | 1256.2 | 1312.7 |
| 40°   | 1377.3 | 1386.8 | 1438.2 | 1479.3 | 1423.8 | 1305.6 | 1217.2 | 1192.1 | 1189.9 | 1286.6 | 1324.7 |
| 42.5° | 1480.5 | 1489.0 | 1550.7 | 1603.1 | 1567.3 | 1438.6 | 1318.2 | 1265.8 | 1261.1 | 1346.1 | 1362.9 |
| 45°   | 1611.0 | 1618.3 | 1683.9 | 1740.0 | 1721.5 | 1590.4 | 1445.1 | 1367.2 | 1366.3 | 1445.3 | 1440.4 |
| 47.5° | 1766.3 | 1771.9 | 1830.8 | 1885.1 | 1891.8 | 1765.1 | 1604.6 | 1523.6 | 1510.5 | 1581.3 | 1560.4 |
| 50°   | 1928.0 | 1934.3 | 1974.3 | 2032.6 | 2082.2 | 1998.8 | 1809.8 | 1715.3 | 1697.7 | 1760.8 | 1730.5 |
| 52.5° | 2035.1 | 2043.3 | 2078.2 | 2152.0 | 2296.3 | 2255.1 | 2052.5 | 1947.6 | 1920.9 | 1978.4 | 1955.1 |
| 55°   | 1987.3 | 2005.9 | 2059.1 | 2177.5 | 2467.6 | 2646.5 | 2351.8 | 2218.6 | 2188.5 | 2236.2 | 2222.5 |
| 57.5° | 1770.1 | 1795.6 | 1868.3 | 2051.0 | 2491.6 | 2991.4 | 2804.3 | 2537.8 | 2516.5 | 2502.8 | 2509.1 |
| 60°   | 1373.2 | 1397.7 | 1487.8 | 1726.0 | 2323.9 | 3243.1 | 3485.4 | 2931.2 | 2900.5 | 2770.3 | 2776.0 |
| 62.5° | 971.9  | 959.5  | 1021.3 | 1195.5 | 1888.3 | 3272.7 | 4260.4 | 3457.5 | 3356.3 | 3052.9 | 3028.0 |
| 65°   | 741.2  | 738.3  | 766.1  | 821.5  | 1143.7 | 2919.1 | 4722.0 | 4341.9 | 4183.8 | 3385.2 | 3326.5 |
| 67.5° | 609.0  | 603.9  | 631.3  | 712.0  | 736.5  | 1883.3 | 4732.1 | 5368.0 | 5212.8 | 3798.9 | 3671.8 |
| 70°   | 500.7  | 495.1  | 520.6  | 624.8  | 680.6  | 955.1  | 3982.7 | 5968.9 | 5960.6 | 4322.7 | 3932.5 |
| 71°   | 448.9  | 444.9  | 475.4  | 591.2  | 668.7  | 796.0  | 3438.6 | 5970.6 | 5995.5 | 4500.0 | 3917.1 |
| 72.5° | 365.5  | 366.9  | 399.3  | 526.2  | 659.8  | 702.9  | 2527.3 | 5692.3 | 5744.9 | 4669.0 | 3777.2 |
| 75°   | 242.9  | 244.1  | 286.6  | 404.8  | 639.8  | 687.7  | 1389.0 | 4776.5 | 4873.2 | 4567.8 | 3446.7 |
| 77.5° | 163.1  | 162.7  | 191.7  | 277.7  | 557.4  | 687.7  | 814.4  | 3572.4 | 3678.7 | 3634.6 | 2657.2 |
| 80°   | 112.3  | 111.5  | 132.0  | 191.7  | 422.0  | 696.0  | 629.6  | 2503.6 | 2535.8 | 1962.8 | 1080.0 |
| 82.5° | 68.8   | 69.4   | 86.2   | 135.4  | 287.2  | 626.4  | 594.4  | 1365.1 | 1330.1 | 550.5  | 269.8  |
| 85°   | 39.5   | 39.3   | 55.1   | 91.7   | 184.4  | 528.6  | 579.7  | 587.5  | 539.0  | 165.8  | 97.6   |
| 87.5° | 14.2   | 15.2   | 29.5   | 50.8   | 105.6  | 368.2  | 491.8  | 305.6  | 275.5  | 74.9   | 44.1   |
| 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°    | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 | 1342.9 |
| 2.5°  | 1341.3 | 1342.5 | 1341.0 | 1333.0 | 1326.1 | 1314.9 | 1308.7 | 1300.0 | 1297.3 | 1296.1 | 1299.4 |
| 5°    | 1346.3 | 1346.7 | 1334.8 | 1313.5 | 1289.6 | 1261.5 | 1241.3 | 1216.4 | 1204.6 | 1199.6 | 1202.8 |
| 7.5°  | 1351.0 | 1349.1 | 1323.0 | 1282.4 | 1238.2 | 1189.3 | 1145.7 | 1105.9 | 1082.6 | 1073.1 | 1073.9 |
| 10°   | 1351.6 | 1343.9 | 1302.0 | 1239.0 | 1170.6 | 1098.8 | 1032.0 | 970.5  | 931.6  | 906.3  | 914.0  |
| 12.5° | 1345.3 | 1332.3 | 1271.0 | 1183.0 | 1088.1 | 990.1  | 899.8  | 807.5  | 752.1  | 726.4  | 727.2  |
| 15°   | 1340.4 | 1317.0 | 1233.0 | 1117.0 | 989.5  | 859.8  | 736.5  | 628.0  | 568.9  | 542.6  | 530.3  |
| 17.5° | 1336.4 | 1300.4 | 1188.9 | 1042.7 | 873.1  | 708.6  | 560.4  | 463.7  | 431.3  | 423.6  | 420.4  |
| 20°   | 1330.7 | 1282.8 | 1139.7 | 956.7  | 740.6  | 539.4  | 409.2  | 361.5  | 361.7  | 370.6  | 371.8  |
| 22.5° | 1322.8 | 1262.7 | 1087.2 | 860.2  | 598.3  | 392.8  | 320.8  | 307.0  | 321.0  | 338.0  | 341.0  |
| 25°   | 1311.1 | 1239.0 | 1029.0 | 753.5  | 456.2  | 302.0  | 274.0  | 273.4  | 290.4  | 308.2  | 310.9  |
| 27.5° | 1294.5 | 1208.1 | 964.2  | 639.0  | 336.2  | 256.6  | 245.5  | 249.8  | 262.3  | 275.3  | 276.3  |
| 30°   | 1272.2 | 1172.1 | 892.8  | 518.1  | 263.5  | 228.5  | 227.3  | 231.1  | 238.8  | 247.9  | 248.7  |
| 32.5° | 1247.7 | 1135.4 | 816.4  | 401.1  | 225.7  | 213.3  | 214.5  | 216.4  | 220.0  | 223.6  | 224.5  |
| 35°   | 1225.5 | 1098.0 | 738.3  | 304.8  | 207.7  | 203.4  | 202.6  | 202.2  | 202.6  | 201.4  | 201.6  |
| 37.5° | 1211.1 | 1067.0 | 657.0  | 242.7  | 197.3  | 194.7  | 192.3  | 189.2  | 185.8  | 183.8  | 184.2  |
| 40°   | 1205.9 | 1043.9 | 574.6  | 209.7  | 188.8  | 187.0  | 182.4  | 175.9  | 171.8  | 170.6  | 170.6  |
| 42.5° | 1220.0 | 1032.0 | 495.1  | 193.1  | 181.7  | 178.7  | 171.0  | 163.5  | 160.5  | 160.3  | 160.1  |
| 45°   | 1263.3 | 1036.9 | 419.4  | 184.0  | 175.3  | 169.4  | 159.3  | 153.0  | 151.0  | 151.4  | 151.2  |
| 47.5° | 1341.0 | 1067.4 | 354.6  | 177.9  | 168.8  | 161.1  | 149.8  | 144.7  | 142.3  | 142.3  | 142.5  |
| 50°   | 1473.2 | 1138.9 | 303.0  | 172.8  | 163.3  | 153.4  | 142.9  | 136.6  | 133.4  | 133.2  | 133.2  |
| 52.5° | 1665.7 | 1266.8 | 270.8  | 168.6  | 157.3  | 146.5  | 136.0  | 128.1  | 124.3  | 123.5  | 123.1  |
| 55°   | 1906.9 | 1450.1 | 261.9  | 165.8  | 149.2  | 139.0  | 127.7  | 119.8  | 115.6  | 113.7  | 113.5  |
| 57.5° | 2176.7 | 1673.2 | 279.5  | 162.3  | 140.9  | 130.1  | 118.6  | 111.1  | 106.7  | 104.4  | 104.2  |
| 60°   | 2449.8 | 1916.7 | 351.4  | 157.5  | 134.0  | 120.4  | 109.3  | 102.4  | 98.0   | 95.5   | 95.1   |
| 62.5° | 2723.2 | 2173.3 | 498.1  | 157.1  | 129.1  | 111.1  | 99.8   | 93.9   | 89.7   | 87.0   | 86.4   |
| 65°   | 3031.6 | 2454.2 | 664.9  | 167.8  | 127.5  | 102.6  | 90.1   | 85.4   | 81.8   | 79.3   | 79.1   |
| 67.5° | 3385.8 | 2771.4 | 648.9  | 189.8  | 133.0  | 94.9   | 81.0   | 77.3   | 74.7   | 72.7   | 72.5   |
| 70°   | 3552.0 | 2721.8 | 403.4  | 205.4  | 140.7  | 87.4   | 72.3   | 69.6   | 67.6   | 66.2   | 65.6   |
| 71°   | 3482.4 | 2584.3 | 338.2  | 203.6  | 139.9  | 84.2   | 68.8   | 66.8   | 64.8   | 63.6   | 62.9   |
| 72.5° | 3292.5 | 2356.9 | 282.1  | 189.4  | 130.7  | 78.3   | 64.4   | 62.3   | 60.5   | 59.1   | 58.7   |
| 75°   | 2954.5 | 2104.9 | 225.9  | 151.4  | 104.2  | 66.2   | 56.5   | 54.2   | 52.8   | 52.0   | 51.2   |
| 77.5° | 2171.9 | 1502.2 | 174.7  | 119.6  | 76.7   | 54.0   | 48.2   | 46.6   | 45.1   | 43.9   | 43.3   |
| 80°   | 832.0  | 581.9  | 117.6  | 89.3   | 56.3   | 42.7   | 38.9   | 38.0   | 36.6   | 35.8   | 35.8   |
| 82.5° | 224.0  | 173.9  | 62.7   | 54.0   | 37.6   | 31.2   | 29.8   | 29.3   | 28.1   | 26.5   | 26.7   |
| 85°   | 90.7   | 76.7   | 35.2   | 29.8   | 23.1   | 18.4   | 20.0   | 20.2   | 18.8   | 16.8   | 17.0   |
| 87.5° | 39.9   | 32.6   | 19.6   | 13.2   | 10.1   | 7.1    | 9.1    | 9.1    | 8.3    | 6.9    | 6.3    |
| 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)