

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: P451425

Luminaire Tested: **GLAN-SA2B-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8554 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82  
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

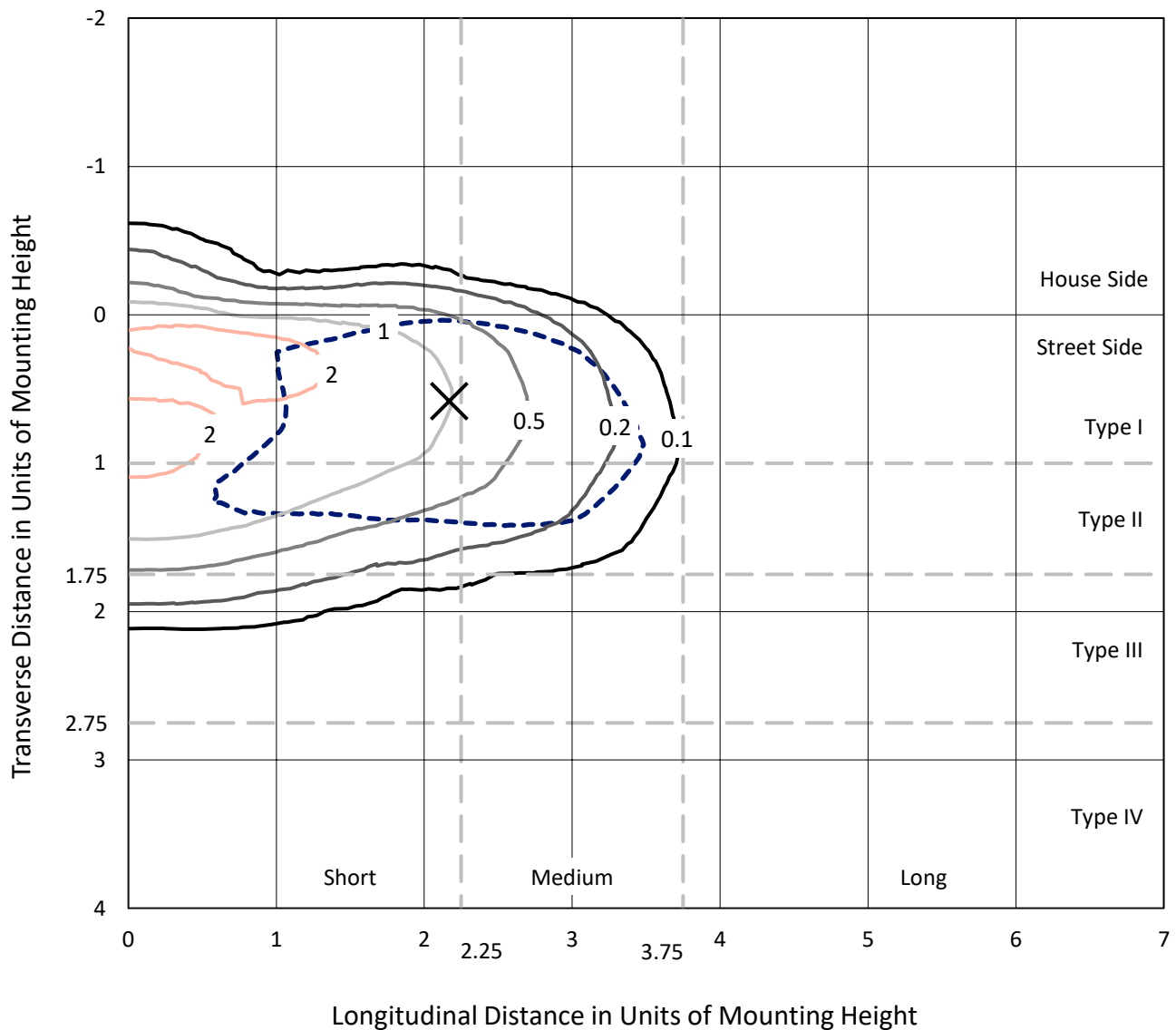


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

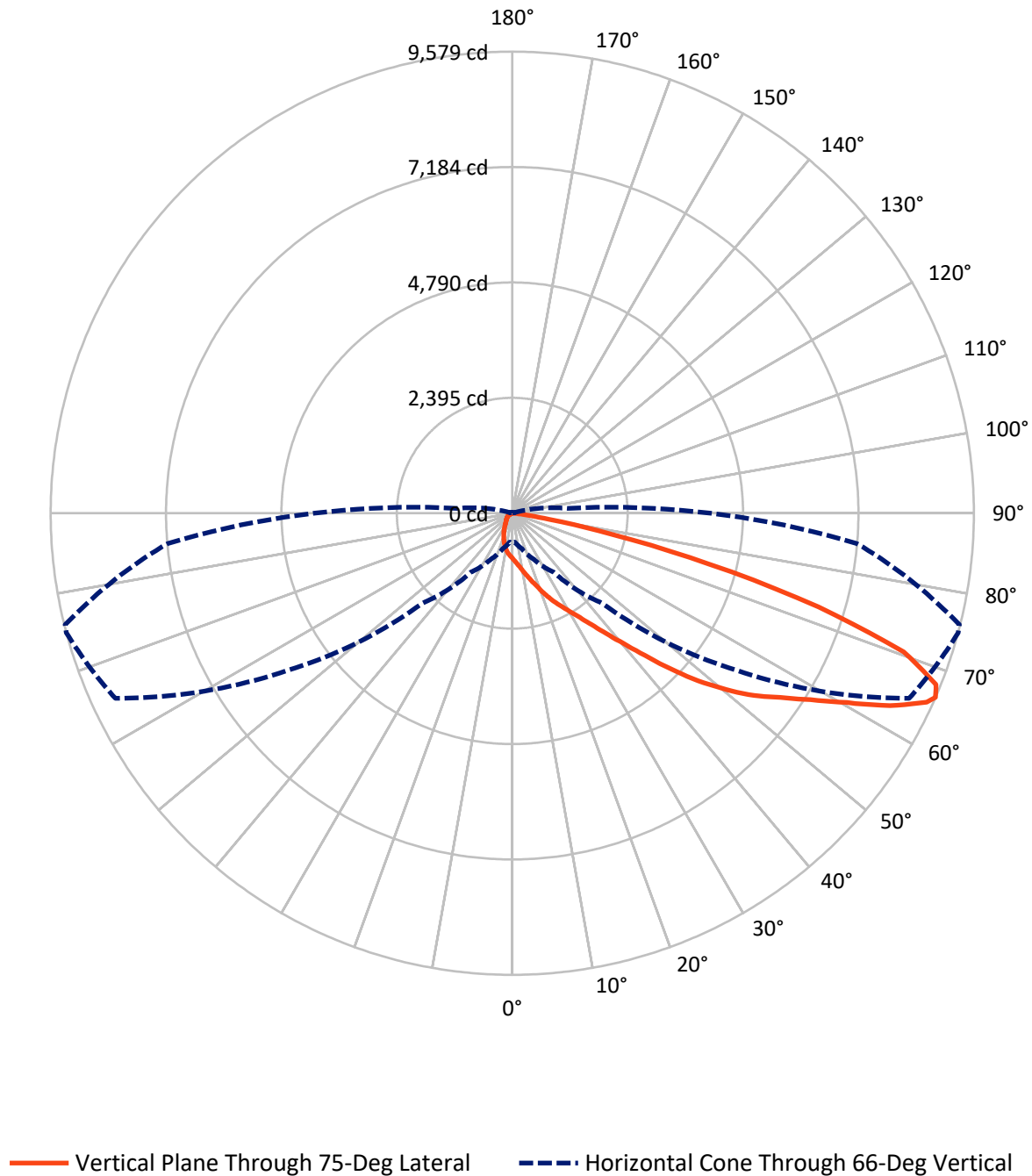


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 528.1    | 0.0    | 528.1  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 8025.9   | 0.0    | 8025.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 8554.0   | 0.0    | 8554.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.2   | 1.1       |
| 10°-20°   | 265.5  | 3.1       |
| 20°-30°   | 458.5  | 5.4       |
| 30°-40°   | 827.1  | 9.7       |
| 40°-50°   | 1494.2 | 17.5      |
| 50°-60°   | 2329.4 | 27.2      |
| 60°-70°   | 2212.9 | 25.9      |
| 70°-80°   | 829.3  | 9.7       |
| 80°-90°   | 46.8   | 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°    | 8554.0 | 100.0     |
| 0°-180°   | 8554.0 | 100.0     |



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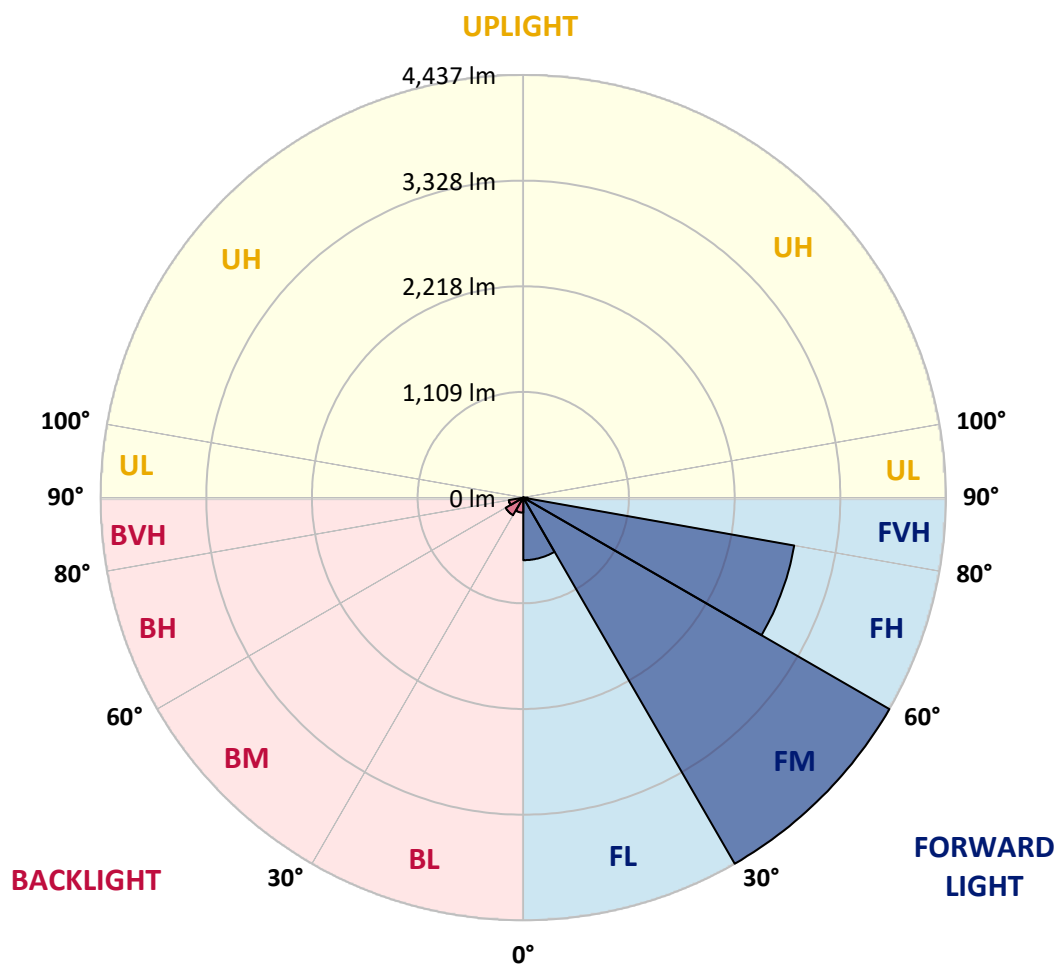
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 656.6  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 4437.0 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2888.0 | 33.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 44.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 157.7  | 1.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 213.8  | 2.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 154.2  | 1.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.4    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  | 935.5  |
| 2.5°  | 1117.6 | 1103.7 | 1108.1 | 1101.8 | 1087.3 | 1065.8 | 1046.8 | 1019.6 | 992.4  | 988.0  | 957.6  |
| 5°    | 1265.0 | 1261.2 | 1256.1 | 1237.8 | 1227.7 | 1194.8 | 1155.6 | 1108.8 | 1052.5 | 1042.4 | 987.3  |
| 7.5°  | 1365.6 | 1363.7 | 1366.2 | 1356.7 | 1347.9 | 1318.1 | 1276.4 | 1212.5 | 1125.2 | 1119.5 | 1027.8 |
| 10°   | 1398.5 | 1403.5 | 1413.0 | 1428.2 | 1442.1 | 1432.6 | 1401.0 | 1321.3 | 1219.5 | 1203.0 | 1074.0 |
| 12.5° | 1379.5 | 1385.2 | 1407.9 | 1448.4 | 1493.3 | 1519.3 | 1506.6 | 1448.4 | 1319.4 | 1306.1 | 1125.8 |
| 15°   | 1330.8 | 1337.7 | 1370.0 | 1432.6 | 1512.9 | 1586.3 | 1617.9 | 1576.2 | 1435.8 | 1414.3 | 1188.5 |
| 17.5° | 1258.7 | 1268.8 | 1315.0 | 1397.8 | 1507.9 | 1634.4 | 1723.6 | 1709.6 | 1559.7 | 1539.5 | 1256.8 |
| 20°   | 1204.3 | 1211.9 | 1251.1 | 1346.0 | 1486.4 | 1660.9 | 1824.1 | 1863.3 | 1712.8 | 1678.0 | 1337.1 |
| 22.5° | 1240.3 | 1242.9 | 1256.1 | 1313.1 | 1447.8 | 1667.9 | 1912.7 | 2023.4 | 1875.4 | 1844.4 | 1420.6 |
| 25°   | 1416.8 | 1391.5 | 1378.2 | 1365.6 | 1439.6 | 1661.6 | 1993.0 | 2190.3 | 2037.3 | 2004.4 | 1503.4 |
| 27.5° | 1695.1 | 1683.7 | 1616.7 | 1526.9 | 1509.8 | 1669.8 | 2046.1 | 2348.5 | 2189.7 | 2154.3 | 1584.4 |
| 30°   | 1998.1 | 1978.5 | 1937.3 | 1805.8 | 1673.6 | 1728.0 | 2084.7 | 2502.2 | 2370.0 | 2323.2 | 1658.4 |
| 32.5° | 2276.4 | 2289.0 | 2227.7 | 2092.3 | 1939.2 | 1852.0 | 2134.7 | 2669.8 | 2576.8 | 2518.6 | 1744.4 |
| 35°   | 2600.8 | 2626.1 | 2531.9 | 2402.2 | 2223.2 | 2075.9 | 2232.1 | 2858.9 | 2839.3 | 2765.9 | 1877.3 |
| 37.5° | 2930.4 | 2945.5 | 2888.0 | 2705.8 | 2544.5 | 2360.5 | 2415.5 | 3092.3 | 3162.5 | 3099.9 | 2036.0 |
| 40°   | 3207.4 | 3228.3 | 3185.9 | 3024.0 | 2851.9 | 2690.0 | 2681.8 | 3346.5 | 3547.0 | 3482.5 | 2272.6 |
| 42.5° | 3419.3 | 3435.1 | 3436.4 | 3321.9 | 3166.9 | 3093.5 | 3021.4 | 3671.0 | 4029.0 | 3954.4 | 2547.1 |
| 45°   | 3686.8 | 3709.6 | 3696.3 | 3618.5 | 3502.8 | 3489.5 | 3452.2 | 4063.2 | 4605.9 | 4511.6 | 2903.2 |
| 47.5° | 4100.5 | 4115.7 | 4082.8 | 3991.1 | 3873.4 | 3894.3 | 3872.2 | 4502.8 | 5194.1 | 5113.1 | 3271.9 |
| 50°   | 4387.6 | 4412.9 | 4459.7 | 4496.4 | 4411.0 | 4333.9 | 4268.1 | 4913.2 | 5752.6 | 5679.8 | 3648.9 |
| 52.5° | 4384.5 | 4426.2 | 4574.2 | 4758.9 | 4945.5 | 4922.1 | 4733.0 | 5366.7 | 6285.8 | 6195.9 | 4003.1 |
| 55°   | 4089.1 | 4170.1 | 4387.6 | 4715.3 | 5232.0 | 5489.4 | 5403.4 | 5891.7 | 6746.2 | 6685.5 | 4413.6 |
| 57.5° | 3479.4 | 3528.7 | 3831.0 | 4289.0 | 5072.0 | 5756.4 | 6180.1 | 6603.3 | 7298.4 | 7269.9 | 5051.1 |
| 60°   | 2340.2 | 2362.4 | 2751.4 | 3317.5 | 4318.1 | 5490.1 | 6749.4 | 7464.1 | 7978.3 | 7964.4 | 5795.6 |
| 62.5° | 1340.9 | 1350.4 | 1632.5 | 2110.0 | 3072.7 | 4652.7 | 6797.5 | 8526.1 | 8793.6 | 8801.2 | 6657.0 |
| 65°   | 721.7  | 726.7  | 954.4  | 1238.4 | 1869.7 | 3316.2 | 6112.5 | 9108.0 | 9452.7 | 9467.2 | 7190.9 |
| 66°   | 623.0  | 599.0  | 759.6  | 1055.6 | 1487.6 | 2639.4 | 5679.2 | 9087.1 | 9579.2 | 9563.4 | 7171.9 |
| 67.5° | 473.7  | 495.2  | 606.6  | 811.5  | 1102.4 | 1876.6 | 4688.7 | 8682.9 | 9483.0 | 9433.7 | 6880.3 |
| 70°   | 339.0  | 347.9  | 432.0  | 578.7  | 750.8  | 1029.7 | 2996.1 | 7211.7 | 8619.0 | 8552.6 | 5994.2 |
| 72.5° | 218.8  | 228.3  | 306.1  | 418.7  | 542.7  | 562.3  | 1677.4 | 5210.5 | 6645.0 | 6635.5 | 4514.1 |
| 75°   | 156.2  | 165.1  | 202.4  | 299.8  | 408.0  | 347.9  | 807.7  | 3511.6 | 4224.5 | 4196.0 | 2792.5 |
| 77.5° | 113.2  | 117.6  | 135.4  | 196.1  | 291.6  | 249.2  | 374.4  | 1875.4 | 2103.1 | 2202.4 | 1234.0 |
| 80°   | 65.1   | 68.9   | 94.2   | 119.5  | 197.3  | 170.1  | 179.0  | 752.7  | 776.1  | 738.8  | 385.8  |
| 82.5° | 32.3   | 36.7   | 56.3   | 81.6   | 123.3  | 114.5  | 82.2   | 226.4  | 239.1  | 232.8  | 97.4   |
| 85°   | 7.6    | 9.5    | 31.6   | 53.8   | 60.1   | 51.2   | 39.8   | 66.4   | 82.2   | 80.3   | 37.3   |
| 87.5° | 0.6    | 1.3    | 11.4   | 9.5    | 10.1   | 17.1   | 13.9   | 17.1   | 26.6   | 24.7   | 13.3   |
| 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°    | 935.5  | 935.5  | 935.5 | 935.5 | 935.5 | 935.5 | 935.5 | 935.5 | 935.5 | 935.5 | 935.5 |
| 2.5°  | 943.7  | 931.7  | 896.9 | 862.7 | 834.3 | 804.5 | 777.3 | 761.5 | 755.2 | 748.2 | 751.4 |
| 5°    | 957.0  | 927.9  | 857.7 | 796.9 | 737.5 | 686.9 | 646.4 | 620.5 | 607.8 | 605.9 | 602.8 |
| 7.5°  | 974.7  | 924.7  | 815.9 | 721.0 | 643.3 | 587.0 | 540.8 | 503.5 | 492.1 | 482.0 | 473.7 |
| 10°   | 996.2  | 919.0  | 764.1 | 641.4 | 558.5 | 487.7 | 426.9 | 382.7 | 359.9 | 353.6 | 358.0 |
| 12.5° | 1019.0 | 908.3  | 709.7 | 568.0 | 472.5 | 382.0 | 325.7 | 303.6 | 297.3 | 294.7 | 295.4 |
| 15°   | 1041.7 | 895.0  | 652.7 | 497.1 | 376.3 | 304.9 | 278.9 | 273.2 | 270.7 | 269.4 | 268.2 |
| 17.5° | 1062.6 | 873.5  | 588.9 | 428.2 | 304.9 | 260.6 | 251.1 | 246.0 | 241.0 | 239.1 | 235.9 |
| 20°   | 1087.3 | 848.8  | 531.3 | 351.0 | 258.1 | 235.9 | 224.5 | 215.0 | 207.5 | 202.4 | 201.8 |
| 22.5° | 1110.7 | 817.2  | 471.2 | 290.9 | 235.3 | 211.9 | 193.5 | 183.4 | 174.6 | 168.2 | 170.1 |
| 25°   | 1123.3 | 778.6  | 417.4 | 253.6 | 214.4 | 187.9 | 167.6 | 155.0 | 145.5 | 142.3 | 141.7 |
| 27.5° | 1123.3 | 731.2  | 365.0 | 232.1 | 195.4 | 166.3 | 145.5 | 133.5 | 127.1 | 122.7 | 123.3 |
| 30°   | 1114.5 | 678.7  | 316.2 | 215.7 | 179.0 | 147.4 | 127.8 | 117.0 | 112.0 | 108.8 | 108.2 |
| 32.5° | 1107.5 | 628.7  | 274.5 | 199.9 | 161.9 | 130.9 | 113.8 | 105.6 | 100.6 | 97.4  | 97.4  |
| 35°   | 1118.3 | 585.7  | 242.2 | 184.1 | 146.1 | 118.3 | 103.1 | 95.5  | 90.4  | 87.9  | 87.3  |
| 37.5° | 1146.7 | 546.5  | 217.6 | 167.0 | 131.6 | 107.5 | 95.5  | 86.7  | 81.6  | 78.4  | 77.2  |
| 40°   | 1216.9 | 524.3  | 199.2 | 151.2 | 117.6 | 98.7  | 86.7  | 78.4  | 72.1  | 68.9  | 68.3  |
| 42.5° | 1329.5 | 525.0  | 181.5 | 136.6 | 106.9 | 91.1  | 79.1  | 69.6  | 62.6  | 59.5  | 58.8  |
| 45°   | 1499.0 | 549.0  | 167.6 | 122.7 | 97.4  | 82.9  | 70.8  | 60.7  | 54.4  | 51.2  | 51.2  |
| 47.5° | 1702.1 | 595.8  | 155.6 | 110.7 | 88.5  | 75.3  | 62.6  | 52.5  | 46.2  | 43.6  | 43.6  |
| 50°   | 1922.2 | 656.5  | 143.6 | 98.0  | 81.0  | 67.0  | 53.8  | 45.5  | 40.5  | 38.6  | 38.6  |
| 52.5° | 2146.7 | 729.9  | 131.6 | 87.9  | 72.7  | 58.2  | 46.2  | 40.5  | 36.1  | 34.8  | 34.2  |
| 55°   | 2441.4 | 823.5  | 118.9 | 77.2  | 63.9  | 50.0  | 41.1  | 35.4  | 30.4  | 28.5  | 27.8  |
| 57.5° | 2894.9 | 964.6  | 105.0 | 67.7  | 52.5  | 41.7  | 35.4  | 29.7  | 24.0  | 20.9  | 20.2  |
| 60°   | 3442.1 | 1136.6 | 90.4  | 59.5  | 42.4  | 34.2  | 28.5  | 22.8  | 17.7  | 13.9  | 13.3  |
| 62.5° | 3954.4 | 1246.0 | 76.5  | 50.0  | 33.5  | 25.9  | 20.2  | 17.1  | 12.6  | 8.9   | 8.2   |
| 65°   | 4180.8 | 1209.3 | 63.2  | 40.5  | 26.6  | 18.3  | 13.3  | 12.0  | 7.6   | 3.8   | 3.2   |
| 66°   | 4105.5 | 1154.9 | 58.2  | 36.7  | 24.0  | 15.8  | 11.4  | 10.1  | 5.7   | 1.9   | 1.9   |
| 67.5° | 3883.5 | 1026.5 | 50.6  | 31.6  | 20.9  | 12.6  | 8.9   | 7.6   | 3.2   | 0.6   | 0.0   |
| 70°   | 3327.6 | 830.5  | 39.8  | 23.4  | 15.2  | 8.9   | 5.1   | 3.8   | 1.9   | 0.0   | 0.0   |
| 72.5° | 2555.9 | 618.6  | 31.6  | 17.7  | 10.8  | 5.1   | 2.5   | 1.3   | 1.9   | 0.0   | 0.0   |
| 75°   | 1566.1 | 353.6  | 24.7  | 13.3  | 7.0   | 3.2   | 1.9   | 0.0   | 1.9   | 0.6   | 0.0   |
| 77.5° | 695.1  | 158.8  | 16.4  | 8.9   | 5.1   | 2.5   | 1.3   | 0.0   | 1.3   | 0.6   | 0.0   |
| 80°   | 175.8  | 51.9   | 9.5   | 6.3   | 3.8   | 1.9   | 0.6   | 0.0   | 1.3   | 1.3   | 0.6   |
| 82.5° | 48.1   | 19.0   | 7.0   | 5.1   | 3.2   | 1.9   | 0.6   | 0.0   | 1.3   | 1.3   | 1.3   |
| 85°   | 19.0   | 8.9    | 6.3   | 5.1   | 3.8   | 1.9   | 0.6   | 0.0   | 1.3   | 1.3   | 1.3   |
| 87.5° | 8.9    | 6.3    | 6.3   | 5.7   | 4.4   | 1.9   | 0.6   | 0.0   | 1.3   | 0.6   | 1.3   |
| 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)