

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: P453894

Luminaire Tested: **GLAN-SA5A-722-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-722-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12360 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 154  
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

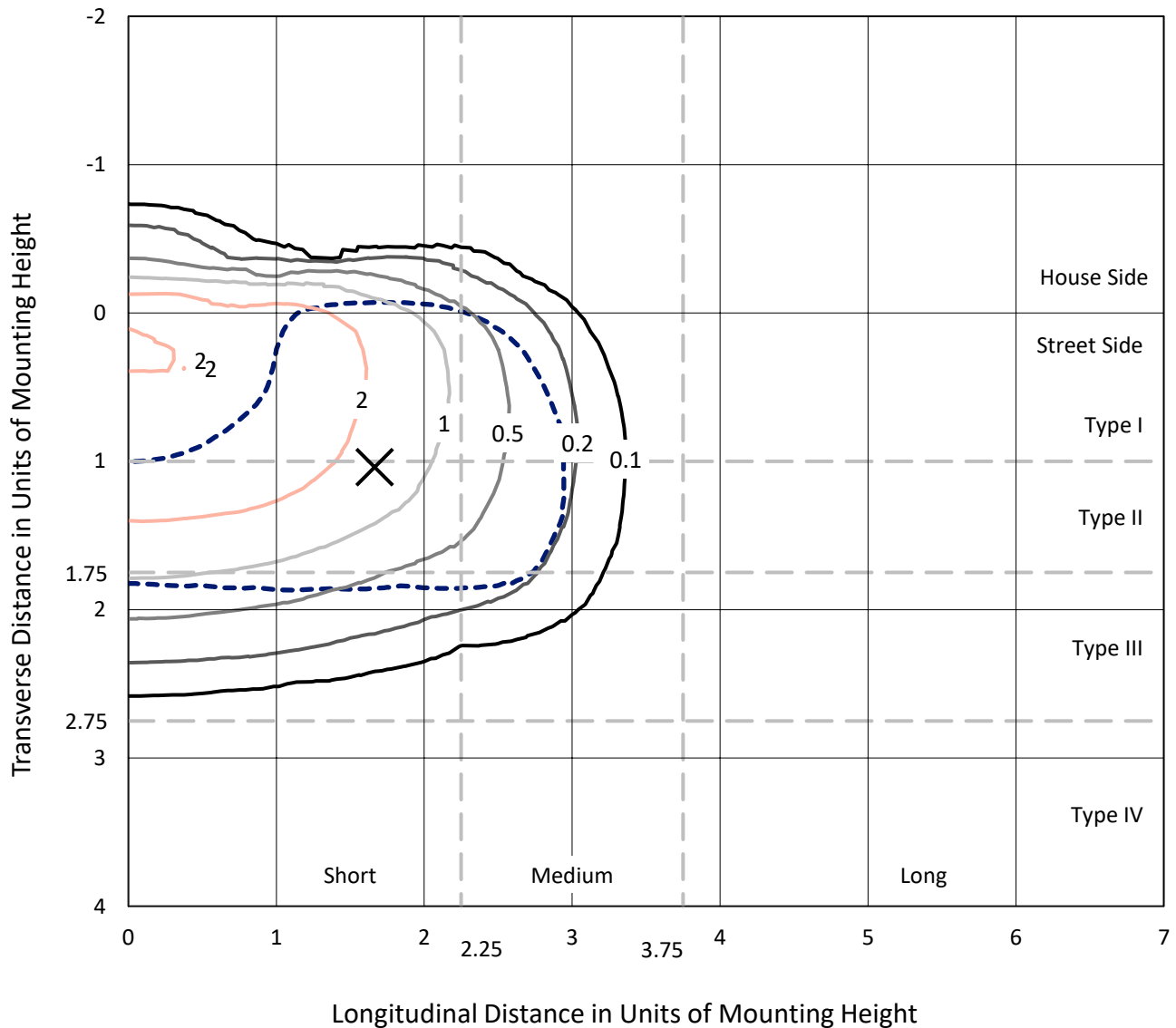


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

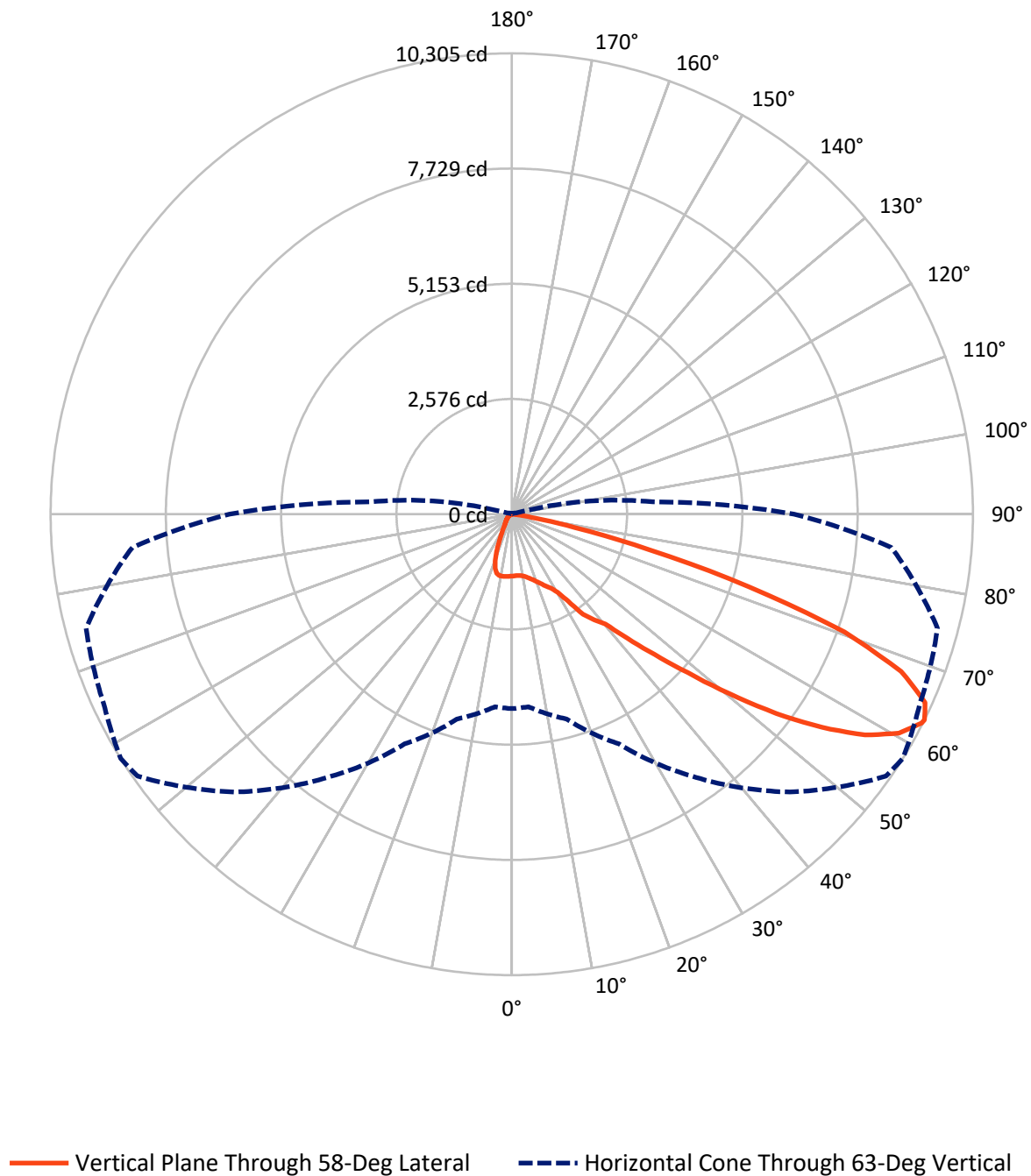


Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1279.8   | 0.0    | 1279.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 11080.2  | 0.0    | 11080.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 12360.0  | 0.0    | 12360.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.5   | 1.0       |
| 10°-20°   | 352.8   | 2.9       |
| 20°-30°   | 612.3   | 5.0       |
| 30°-40°   | 1125.2  | 9.1       |
| 40°-50°   | 2118.2  | 17.1      |
| 50°-60°   | 3623.0  | 29.3      |
| 60°-70°   | 3469.0  | 28.1      |
| 70°-80°   | 884.6   | 7.2       |
| 80°-90°   | 45.2    | 0.4       |
| 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°    | 12360.0 | 100.0     |
| 0°-180°   | 12360.0 | 100.0     |

**Coefficient of Utilization**



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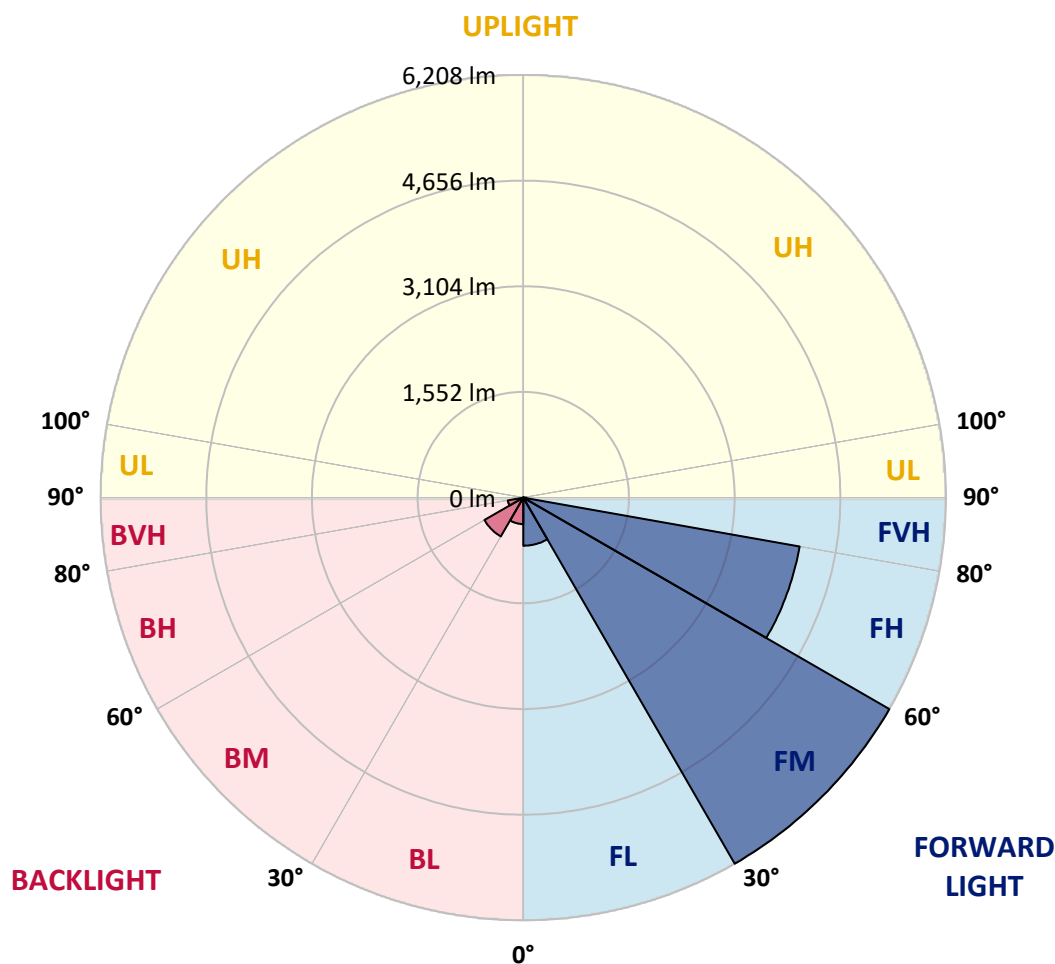
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 706.5  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 6208.2 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 4122.0 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 388.1  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 658.3  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 231.7  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.8    | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7  | 1383.7  | 1383.7  | 1383.7 | 1383.7 |
| 2.5°  | 1349.3 | 1354.0 | 1358.6 | 1360.5 | 1367.0 | 1373.5 | 1378.2  | 1377.2  | 1384.7  | 1388.4 | 1388.4 |
| 5°    | 1295.3 | 1295.3 | 1307.4 | 1318.6 | 1337.2 | 1355.8 | 1373.5  | 1377.2  | 1391.2  | 1404.2 | 1408.9 |
| 7.5°  | 1249.7 | 1252.5 | 1261.8 | 1282.3 | 1307.4 | 1340.0 | 1375.4  | 1383.7  | 1407.9  | 1436.8 | 1448.9 |
| 10°   | 1228.3 | 1230.2 | 1242.3 | 1263.7 | 1295.3 | 1340.0 | 1389.3  | 1405.2  | 1442.4  | 1488.0 | 1504.7 |
| 12.5° | 1223.7 | 1226.5 | 1238.6 | 1262.8 | 1299.1 | 1353.0 | 1420.0  | 1436.8  | 1490.8  | 1549.4 | 1574.5 |
| 15°   | 1232.1 | 1233.9 | 1246.0 | 1272.1 | 1312.1 | 1376.3 | 1461.0  | 1484.3  | 1548.5  | 1616.4 | 1649.0 |
| 17.5° | 1261.8 | 1260.0 | 1268.4 | 1289.8 | 1334.4 | 1405.2 | 1510.3  | 1538.2  | 1613.6  | 1706.7 | 1728.1 |
| 20°   | 1388.4 | 1376.3 | 1368.9 | 1350.2 | 1367.9 | 1446.1 | 1569.9  | 1610.8  | 1703.9  | 1798.8 | 1813.7 |
| 22.5° | 1661.1 | 1634.1 | 1581.0 | 1508.4 | 1452.6 | 1501.9 | 1641.5  | 1689.0  | 1809.0  | 1902.1 | 1902.1 |
| 25°   | 2008.2 | 1973.7 | 1920.7 | 1762.5 | 1625.7 | 1594.1 | 1722.5  | 1782.0  | 1923.5  | 2017.5 | 1986.8 |
| 27.5° | 2442.7 | 2415.7 | 2312.5 | 2128.2 | 1918.8 | 1755.0 | 1816.5  | 1871.4  | 2024.9  | 2138.4 | 2074.2 |
| 30°   | 2796.3 | 2783.3 | 2698.6 | 2533.9 | 2303.1 | 2064.0 | 1991.4  | 2027.7  | 2159.8  | 2291.1 | 2225.0 |
| 32.5° | 3095.1 | 3095.1 | 3008.5 | 2855.0 | 2639.1 | 2426.9 | 2288.3  | 2314.3  | 2440.9  | 2592.6 | 2469.7 |
| 35°   | 3423.5 | 3412.4 | 3342.6 | 3196.5 | 2954.5 | 2767.5 | 2710.7  | 2746.1  | 2860.6  | 2973.2 | 2670.7 |
| 37.5° | 3768.8 | 3765.1 | 3692.5 | 3551.0 | 3353.8 | 3118.3 | 2985.3  | 2994.6  | 3053.2  | 3122.0 | 2906.2 |
| 40°   | 4143.8 | 4149.4 | 4054.5 | 3967.0 | 3780.9 | 3539.9 | 3284.9  | 3226.3  | 3281.2  | 3475.7 | 3340.7 |
| 42.5° | 4586.8 | 4573.7 | 4532.8 | 4413.7 | 4263.8 | 4119.6 | 3813.5  | 3792.1  | 3840.4  | 4048.9 | 3902.8 |
| 45°   | 5101.4 | 5120.0 | 5049.2 | 4983.2 | 4882.7 | 4762.6 | 4506.7  | 4469.5  | 4522.5  | 4846.4 | 4638.9 |
| 47.5° | 5616.9 | 5599.2 | 5644.8 | 5632.7 | 5686.7 | 5597.3 | 5371.2  | 5294.9  | 5422.4  | 5729.5 | 5424.3 |
| 50°   | 6009.6 | 6029.1 | 6124.0 | 6262.7 | 6494.4 | 6544.7 | 6327.8  | 6301.8  | 6358.5  | 6555.8 | 6126.8 |
| 52.5° | 6264.6 | 6329.7 | 6478.6 | 6835.0 | 7252.8 | 7577.6 | 7412.9  | 7398.9  | 7375.7  | 7428.7 | 6798.7 |
| 55°   | 6431.1 | 6497.2 | 6691.7 | 7216.5 | 7935.9 | 8463.5 | 8471.9  | 8412.3  | 8258.8  | 8220.6 | 7426.8 |
| 57.5° | 6328.8 | 6341.8 | 6619.1 | 7320.8 | 8314.6 | 9095.3 | 9368.9  | 9309.4  | 9025.5  | 8881.3 | 7981.5 |
| 60°   | 5688.5 | 5715.5 | 6101.7 | 6926.2 | 8149.9 | 9301.9 | 9963.6  | 9936.6  | 9625.8  | 9462.9 | 8413.2 |
| 62.5° | 4554.2 | 4632.4 | 5029.7 | 5949.1 | 7384.0 | 8953.9 | 10204.6 | 10280.9 | 10038.9 | 9814.7 | 8549.1 |
| 63°   | 4345.7 | 4320.6 | 4740.3 | 5664.3 | 7181.2 | 8781.7 | 10208.3 | 10305.1 | 10057.5 | 9848.2 | 8511.9 |
| 65°   | 3217.0 | 3292.3 | 3565.0 | 4466.7 | 5976.1 | 7980.5 | 9978.4  | 10149.7 | 9988.7  | 9700.2 | 8099.6 |
| 67.5° | 1806.2 | 1802.5 | 2104.0 | 2922.9 | 4182.9 | 6259.9 | 9022.8  | 9384.7  | 9351.2  | 8704.5 | 6714.0 |
| 70°   | 884.0  | 898.0  | 1021.8 | 1515.0 | 2426.0 | 4318.8 | 7497.6  | 7888.4  | 7900.5  | 6836.9 | 4642.6 |
| 72.5° | 400.1  | 406.7  | 495.1  | 737.9  | 1247.0 | 2299.4 | 5166.5  | 5539.7  | 5470.8  | 4356.9 | 2563.7 |
| 75°   | 211.2  | 225.2  | 272.7  | 371.3  | 601.1  | 948.2  | 2810.3  | 3171.4  | 3027.1  | 1990.5 | 943.6  |
| 77.5° | 156.3  | 161.0  | 185.2  | 236.4  | 322.0  | 369.4  | 1212.5  | 1442.4  | 1351.2  | 720.3  | 312.7  |
| 80°   | 114.5  | 118.2  | 137.7  | 167.5  | 202.9  | 188.0  | 456.9   | 523.9   | 469.9   | 244.7  | 95.8   |
| 82.5° | 69.8   | 70.7   | 100.5  | 124.7  | 127.5  | 105.2  | 150.8   | 161.9   | 169.4   | 137.7  | 52.1   |
| 85°   | 25.1   | 31.6   | 67.9   | 90.3   | 75.4   | 53.0   | 63.3    | 69.8    | 76.3    | 87.5   | 30.7   |
| 87.5° | 2.8    | 3.7    | 32.6   | 43.7   | 21.4   | 19.5   | 23.3    | 26.1    | 27.9    | 32.6   | 14.9   |
| 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°    | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 | 1383.7 |
| 2.5°  | 1392.1 | 1395.8 | 1393.1 | 1388.4 | 1387.5 | 1384.7 | 1379.1 | 1379.1 | 1379.1 | 1381.0 | 1379.1 |
| 5°    | 1412.6 | 1415.4 | 1408.9 | 1399.6 | 1389.3 | 1376.3 | 1362.3 | 1354.0 | 1353.0 | 1351.2 | 1346.5 |
| 7.5°  | 1451.7 | 1455.4 | 1440.5 | 1418.2 | 1390.3 | 1358.6 | 1328.8 | 1300.9 | 1287.9 | 1277.7 | 1277.7 |
| 10°   | 1508.4 | 1512.2 | 1482.4 | 1442.4 | 1386.5 | 1322.3 | 1251.6 | 1187.4 | 1137.2 | 1113.9 | 1108.3 |
| 12.5° | 1576.4 | 1578.2 | 1528.9 | 1459.1 | 1367.0 | 1243.2 | 1092.5 | 952.0  | 854.3  | 809.6  | 804.9  |
| 15°   | 1650.8 | 1637.8 | 1572.7 | 1465.6 | 1311.2 | 1080.4 | 819.8  | 647.7  | 546.2  | 516.5  | 527.6  |
| 17.5° | 1726.2 | 1702.0 | 1606.2 | 1455.4 | 1185.5 | 819.8  | 550.9  | 442.0  | 410.4  | 402.0  | 402.0  |
| 20°   | 1796.9 | 1763.4 | 1630.3 | 1410.7 | 967.8  | 564.9  | 408.5  | 382.5  | 376.9  | 371.3  | 372.2  |
| 22.5° | 1867.6 | 1816.5 | 1651.8 | 1311.2 | 721.2  | 403.9  | 365.7  | 357.3  | 349.9  | 342.4  | 341.5  |
| 25°   | 1936.5 | 1865.8 | 1660.1 | 1126.9 | 491.3  | 347.1  | 334.1  | 322.9  | 308.0  | 299.6  | 297.8  |
| 27.5° | 2008.2 | 1925.3 | 1654.5 | 894.3  | 358.3  | 310.8  | 297.8  | 282.0  | 264.3  | 249.4  | 249.4  |
| 30°   | 2145.9 | 2038.9 | 1635.0 | 643.0  | 301.5  | 273.6  | 256.8  | 231.7  | 212.2  | 197.3  | 196.3  |
| 32.5° | 2333.9 | 2186.8 | 1568.0 | 452.3  | 268.0  | 241.0  | 215.9  | 188.0  | 167.5  | 156.3  | 156.3  |
| 35°   | 2501.4 | 2335.7 | 1442.4 | 333.1  | 241.0  | 209.4  | 178.7  | 151.7  | 135.9  | 128.4  | 125.6  |
| 37.5° | 2756.3 | 2553.5 | 1269.3 | 270.8  | 215.0  | 181.5  | 149.8  | 124.7  | 111.7  | 106.1  | 106.1  |
| 40°   | 3138.8 | 2819.6 | 1057.1 | 237.3  | 189.8  | 154.5  | 124.7  | 105.2  | 94.9   | 88.4   | 88.4   |
| 42.5° | 3613.4 | 3145.3 | 842.2  | 213.1  | 166.6  | 133.1  | 104.2  | 89.3   | 80.0   | 75.4   | 74.4   |
| 45°   | 4210.8 | 3488.7 | 648.6  | 190.8  | 148.0  | 113.5  | 88.4   | 75.4   | 66.1   | 63.3   | 64.2   |
| 47.5° | 4834.3 | 3791.1 | 502.5  | 171.2  | 128.4  | 95.8   | 75.4   | 65.1   | 58.6   | 54.9   | 54.9   |
| 50°   | 5366.6 | 3999.6 | 381.5  | 148.9  | 113.5  | 81.0   | 66.1   | 58.6   | 53.0   | 51.2   | 50.3   |
| 52.5° | 5811.4 | 4060.1 | 292.2  | 129.3  | 99.6   | 69.8   | 58.6   | 53.0   | 48.4   | 45.6   | 45.6   |
| 55°   | 6190.1 | 4007.0 | 228.9  | 108.9  | 83.8   | 60.5   | 52.1   | 47.5   | 41.9   | 39.1   | 38.2   |
| 57.5° | 6411.6 | 3836.7 | 174.9  | 90.3   | 67.9   | 50.3   | 45.6   | 40.0   | 33.5   | 28.8   | 28.8   |
| 60°   | 6523.3 | 3589.2 | 134.0  | 74.4   | 52.1   | 40.0   | 37.2   | 29.8   | 23.3   | 19.5   | 18.6   |
| 62.5° | 6389.3 | 3260.7 | 101.4  | 58.6   | 39.1   | 29.8   | 25.1   | 21.4   | 14.9   | 11.2   | 11.2   |
| 63°   | 6306.4 | 3165.8 | 97.7   | 55.8   | 36.3   | 27.9   | 23.3   | 19.5   | 13.0   | 10.2   | 9.3    |
| 65°   | 5749.0 | 2751.7 | 80.0   | 44.7   | 28.8   | 19.5   | 15.8   | 14.0   | 9.3    | 4.7    | 3.7    |
| 67.5° | 4565.4 | 2104.9 | 63.3   | 33.5   | 20.5   | 14.0   | 9.3    | 8.4    | 2.8    | 0.0    | 0.0    |
| 70°   | 3086.7 | 1359.6 | 49.3   | 24.2   | 14.0   | 8.4    | 4.7    | 3.7    | 0.9    | 0.0    | 0.0    |
| 72.5° | 1609.9 | 697.0  | 38.2   | 17.7   | 8.4    | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    |
| 75°   | 569.5  | 237.3  | 27.9   | 11.2   | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 172.2  | 88.4   | 17.7   | 8.4    | 3.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 60.5   | 32.6   | 10.2   | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 29.8   | 15.8   | 6.5    | 4.7    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.8   | 10.2   | 5.6    | 4.7    | 2.8    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.1   | 7.4    | 5.6    | 4.7    | 3.7    | 1.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)