

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386528

Luminaire Tested: GAW-SA2B-722-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-722-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7116 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

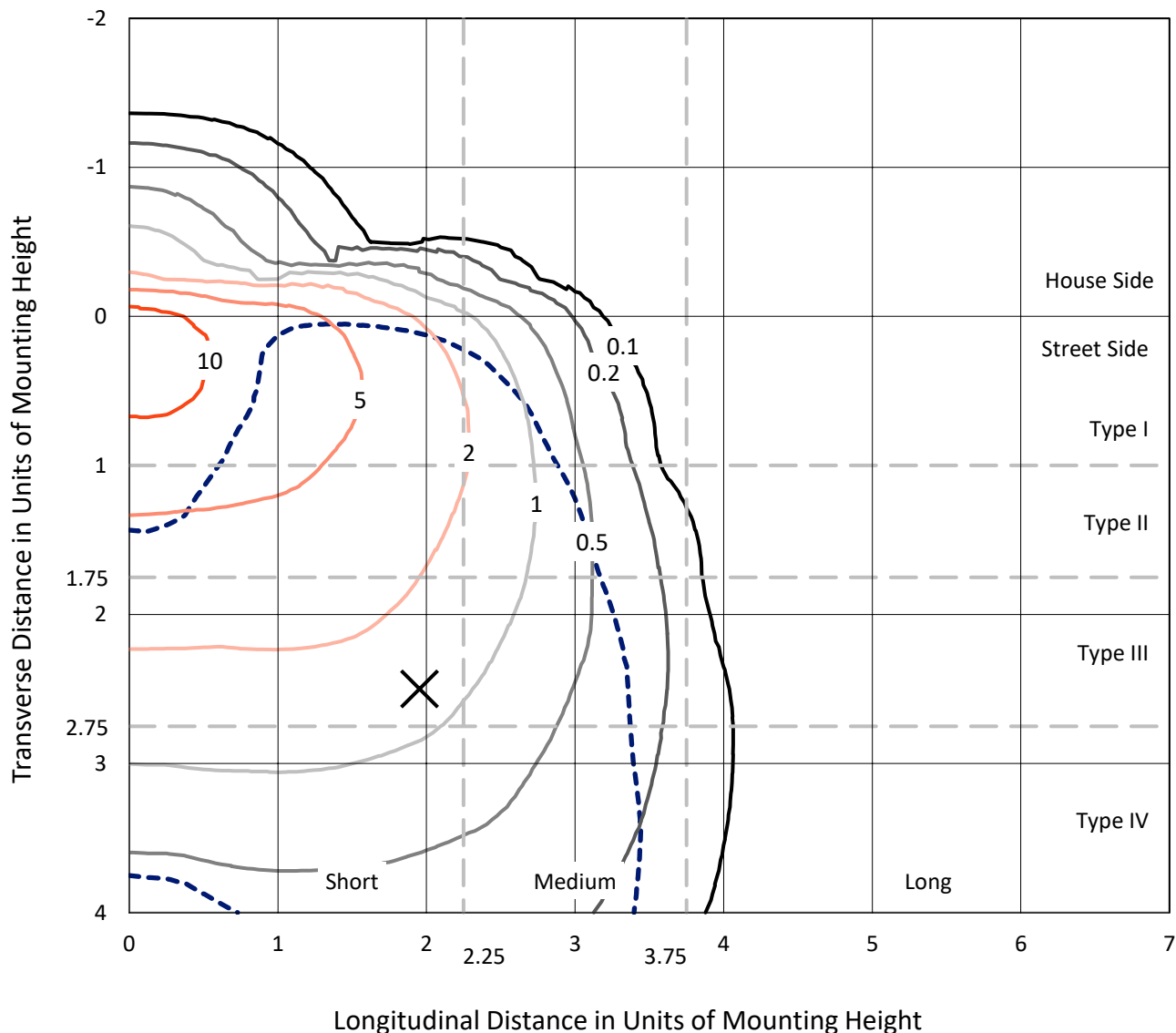
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

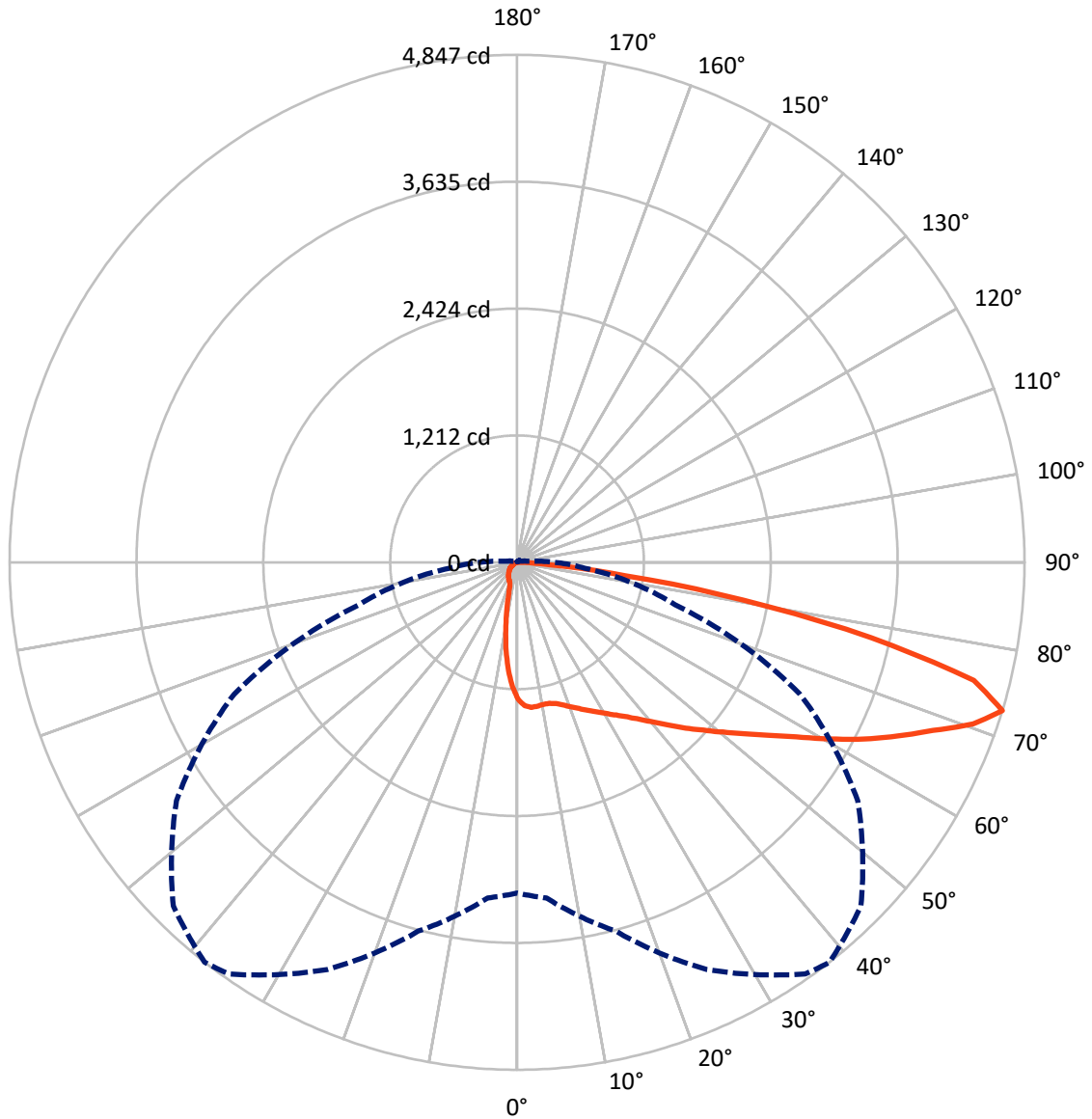
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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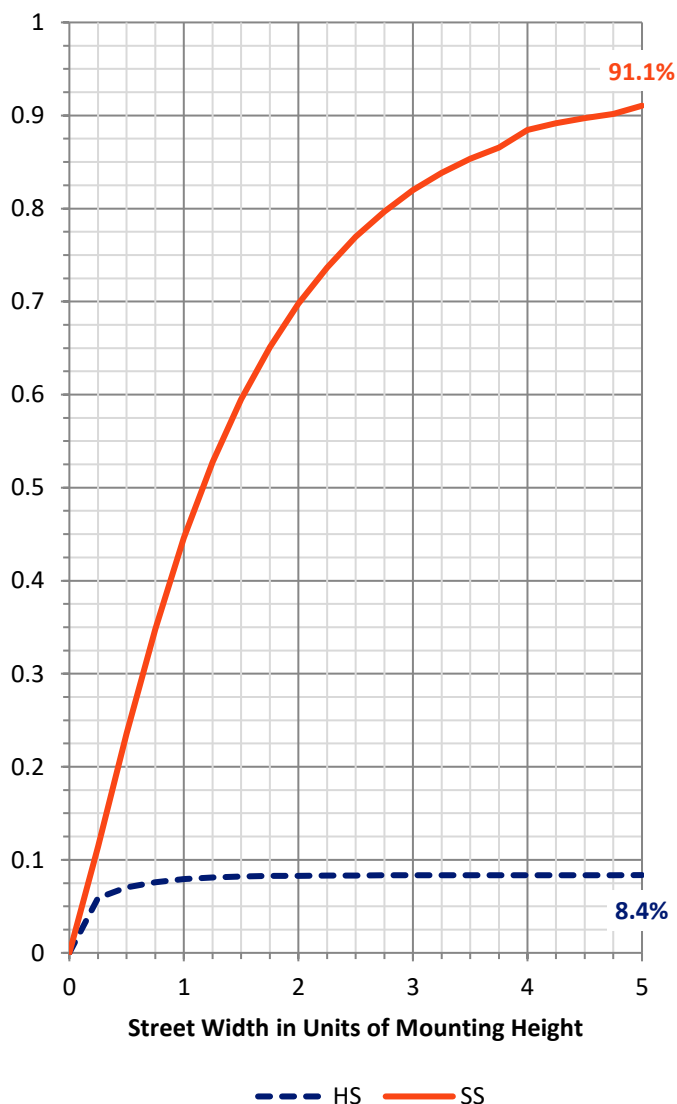
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 598.8    | 0.0    | 598.8  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 6517.2   | 0.0    | 6517.2 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 7116.0   | 0.0    | 7116.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.5  | 1.6       |
| 10°-20°   | 272.7  | 3.8       |
| 20°-30°   | 433.7  | 6.1       |
| 30°-40°   | 652.0  | 9.2       |
| 40°-50°   | 994.7  | 14.0      |
| 50°-60°   | 1405.9 | 19.8      |
| 60°-70°   | 1763.4 | 24.8      |
| 70°-80°   | 1318.5 | 18.5      |
| 80°-90°   | 163.5  | 2.3       |
| 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°    | 7116.0 | 100.0     |
| 0°-180°   | 7116.0 | 100.0     |

**Coefficient of Utilization**



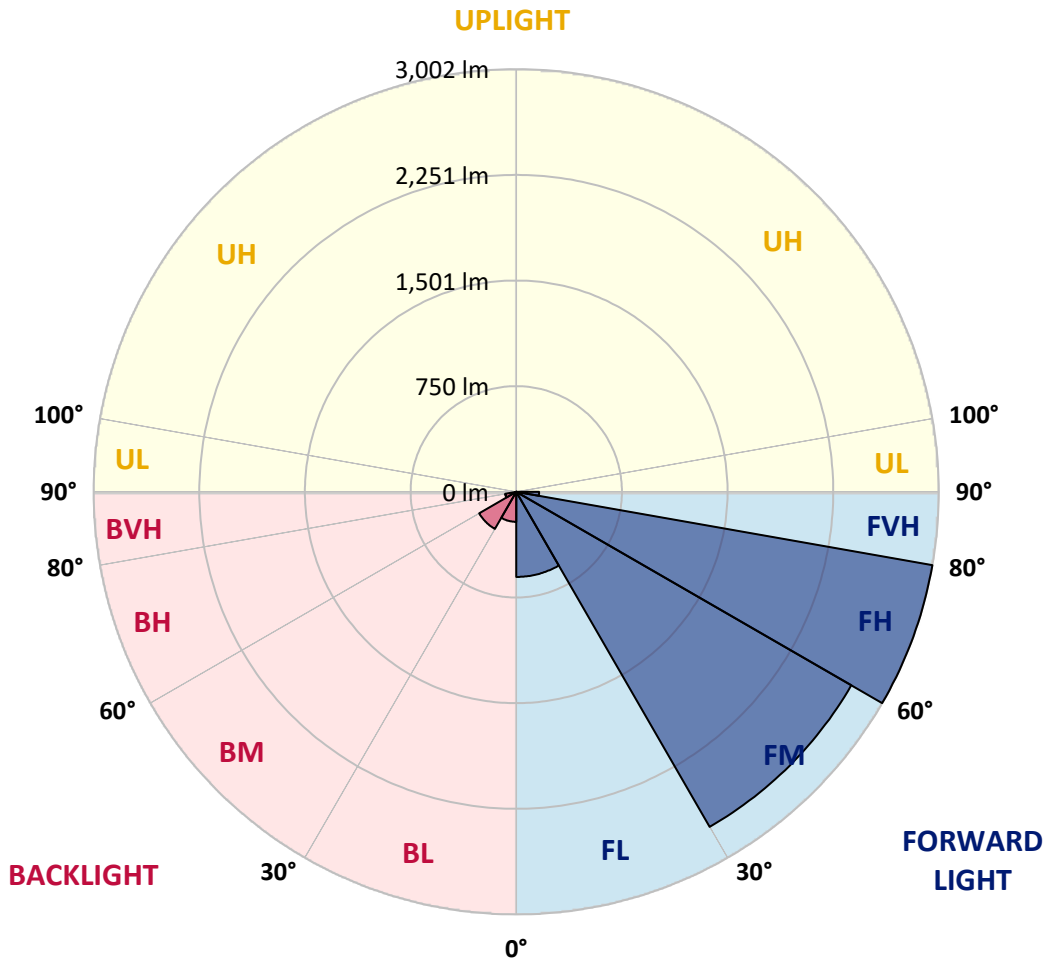
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 604.7  | 8.5       |                         |      |         |
| FM (30°-60°)   | 2748.5 | 38.6      |                         |      |         |
| FH (60°-80°)   | 3002.0 | 42.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 162.0  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 213.2  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 304.1  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 80.0   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.5    | 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 IV Short





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CATALOG NUMBER: GAW-SA2B-722-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 |
| 2.5°  | 1389.0 | 1389.3 | 1386.0 | 1380.7 | 1373.9 | 1370.4 | 1364.5 | 1355.0 | 1345.0 | 1326.9 | 1307.4 |
| 5°    | 1417.4 | 1417.4 | 1413.2 | 1406.1 | 1395.2 | 1391.9 | 1380.7 | 1365.6 | 1345.0 | 1315.7 | 1282.9 |
| 7.5°  | 1414.4 | 1415.0 | 1409.4 | 1402.0 | 1391.1 | 1388.1 | 1374.5 | 1357.7 | 1332.0 | 1296.5 | 1254.5 |
| 10°   | 1399.0 | 1400.5 | 1396.1 | 1392.5 | 1382.5 | 1379.2 | 1366.5 | 1349.7 | 1324.0 | 1286.1 | 1238.0 |
| 12.5° | 1383.4 | 1384.9 | 1386.3 | 1389.6 | 1383.4 | 1382.2 | 1372.1 | 1358.0 | 1333.4 | 1294.1 | 1239.8 |
| 15°   | 1373.3 | 1376.3 | 1386.9 | 1399.6 | 1401.1 | 1399.9 | 1393.4 | 1380.1 | 1355.3 | 1314.5 | 1252.5 |
| 17.5° | 1373.3 | 1378.1 | 1400.2 | 1424.5 | 1433.0 | 1433.9 | 1428.3 | 1409.7 | 1380.1 | 1336.4 | 1264.3 |
| 20°   | 1384.9 | 1391.4 | 1425.9 | 1460.2 | 1474.4 | 1474.4 | 1463.5 | 1437.5 | 1402.9 | 1356.2 | 1272.3 |
| 22.5° | 1414.4 | 1423.0 | 1466.4 | 1506.0 | 1521.1 | 1517.8 | 1503.1 | 1465.2 | 1426.5 | 1378.6 | 1282.3 |
| 25°   | 1472.6 | 1479.1 | 1524.3 | 1564.2 | 1573.4 | 1566.0 | 1547.4 | 1498.9 | 1456.7 | 1409.1 | 1300.6 |
| 27.5° | 1547.7 | 1548.6 | 1595.3 | 1629.0 | 1623.3 | 1618.3 | 1595.0 | 1541.2 | 1500.1 | 1452.5 | 1332.3 |
| 30°   | 1630.1 | 1630.1 | 1671.2 | 1696.9 | 1679.8 | 1675.7 | 1652.3 | 1592.3 | 1555.7 | 1511.6 | 1377.2 |
| 32.5° | 1709.9 | 1713.5 | 1746.9 | 1763.1 | 1743.9 | 1739.8 | 1717.0 | 1657.0 | 1629.6 | 1601.8 | 1447.2 |
| 35°   | 1787.1 | 1789.7 | 1821.4 | 1830.2 | 1811.9 | 1813.1 | 1796.8 | 1746.0 | 1735.7 | 1732.1 | 1552.7 |
| 37.5° | 1861.8 | 1862.4 | 1894.6 | 1900.3 | 1891.1 | 1901.1 | 1902.6 | 1857.7 | 1876.9 | 1905.6 | 1701.4 |
| 40°   | 1930.1 | 1930.7 | 1962.6 | 1977.1 | 1992.8 | 2005.8 | 2017.3 | 1993.4 | 2056.9 | 2123.4 | 1878.4 |
| 42.5° | 1984.8 | 1991.0 | 2031.5 | 2059.0 | 2100.3 | 2125.2 | 2156.5 | 2155.3 | 2271.2 | 2371.0 | 2092.4 |
| 45°   | 2033.0 | 2043.6 | 2100.0 | 2148.2 | 2219.1 | 2258.7 | 2307.8 | 2346.2 | 2512.3 | 2646.8 | 2309.0 |
| 47.5° | 2096.5 | 2106.5 | 2171.0 | 2249.9 | 2344.4 | 2396.5 | 2477.7 | 2560.8 | 2777.4 | 2917.5 | 2520.6 |
| 50°   | 2186.0 | 2181.6 | 2245.1 | 2358.3 | 2479.8 | 2548.1 | 2663.9 | 2788.3 | 3040.4 | 3153.3 | 2645.0 |
| 52.5° | 2281.5 | 2279.7 | 2326.7 | 2476.2 | 2639.4 | 2719.2 | 2872.3 | 3023.6 | 3291.9 | 3315.9 | 2702.0 |
| 55°   | 2399.7 | 2387.0 | 2426.6 | 2610.7 | 2828.8 | 2914.5 | 3094.8 | 3256.5 | 3492.3 | 3407.5 | 2730.7 |
| 57.5° | 2523.5 | 2502.6 | 2540.4 | 2760.6 | 3042.5 | 3143.9 | 3341.3 | 3483.4 | 3625.6 | 3470.1 | 2730.4 |
| 60°   | 2651.5 | 2626.7 | 2671.6 | 2947.9 | 3307.9 | 3425.2 | 3608.4 | 3636.8 | 3750.0 | 3501.7 | 2710.3 |
| 62.5° | 2758.5 | 2743.7 | 2810.5 | 3148.3 | 3604.3 | 3719.5 | 3810.3 | 3776.3 | 3854.9 | 3526.3 | 2663.3 |
| 65°   | 2871.7 | 2872.6 | 2980.4 | 3382.1 | 3919.3 | 3997.0 | 4004.7 | 3957.2 | 3942.7 | 3521.2 | 2504.3 |
| 67.5° | 3024.8 | 3038.9 | 3218.9 | 3699.5 | 4225.8 | 4285.8 | 4285.2 | 4153.1 | 4006.8 | 3321.5 | 2151.8 |
| 70°   | 3186.7 | 3220.1 | 3493.8 | 4062.7 | 4560.3 | 4621.2 | 4589.9 | 4277.8 | 3772.7 | 2685.8 | 1522.9 |
| 72.5° | 3159.5 | 3217.4 | 3646.6 | 4291.7 | 4800.6 | 4847.0 | 4643.4 | 3971.3 | 2981.9 | 1561.0 | 648.4  |
| 75°   | 2437.5 | 2504.6 | 3343.6 | 4064.7 | 4548.5 | 4506.8 | 3989.7 | 3090.4 | 1629.6 | 435.6  | 146.0  |
| 77.5° | 1287.6 | 1323.4 | 2208.8 | 3096.6 | 3546.7 | 3459.5 | 2810.5 | 1714.4 | 496.8  | 107.9  | 65.6   |
| 80°   | 674.4  | 682.7  | 962.5  | 1756.9 | 2189.0 | 2189.6 | 1665.6 | 753.0  | 204.8  | 55.3   | 44.0   |
| 82.5° | 361.1  | 368.2  | 508.6  | 811.8  | 1147.0 | 1039.7 | 637.8  | 414.3  | 119.1  | 31.3   | 42.3   |
| 85°   | 86.9   | 88.4   | 288.4  | 370.9  | 451.0  | 322.1  | 189.4  | 347.8  | 32.2   | 18.3   | 34.3   |
| 87.5° | 33.4   | 34.0   | 107.0  | 160.5  | 115.0  | 74.5   | 88.7   | 129.7  | 4.1    | 7.1    | 5.3    |
| 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°    | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 | 1308.6 |
| 2.5°  | 1295.6 | 1287.9 | 1269.0 | 1245.1 | 1223.8 | 1208.4 | 1185.4 | 1170.3 | 1160.3 | 1160.0 | 1156.1 |
| 5°    | 1262.8 | 1247.1 | 1206.4 | 1157.9 | 1113.9 | 1074.3 | 1027.6 | 990.6  | 963.1  | 958.7  | 949.2  |
| 7.5°  | 1227.6 | 1201.9 | 1139.3 | 1063.6 | 989.7  | 914.7  | 827.5  | 773.4  | 727.0  | 704.8  | 702.5  |
| 10°   | 1206.1 | 1170.0 | 1081.1 | 971.7  | 855.9  | 733.8  | 619.7  | 540.8  | 483.8  | 467.5  | 455.4  |
| 12.5° | 1201.6 | 1154.0 | 1036.1 | 885.4  | 719.9  | 558.6  | 432.4  | 348.4  | 302.9  | 288.4  | 284.6  |
| 15°   | 1206.1 | 1146.7 | 998.3  | 800.0  | 582.2  | 396.3  | 290.2  | 241.4  | 224.3  | 220.2  | 219.9  |
| 17.5° | 1208.7 | 1137.8 | 955.5  | 705.1  | 448.6  | 283.1  | 222.2  | 208.1  | 205.4  | 205.1  | 205.7  |
| 20°   | 1208.4 | 1124.2 | 904.3  | 599.3  | 333.7  | 222.5  | 201.0  | 198.0  | 197.4  | 197.7  | 197.4  |
| 22.5° | 1206.4 | 1108.2 | 848.2  | 490.3  | 252.1  | 198.9  | 191.8  | 190.0  | 189.7  | 189.7  | 189.7  |
| 25°   | 1210.2 | 1095.5 | 786.4  | 386.0  | 207.8  | 188.0  | 183.5  | 182.0  | 181.8  | 181.8  | 181.2  |
| 27.5° | 1224.1 | 1088.4 | 718.7  | 297.0  | 187.7  | 178.2  | 174.7  | 174.4  | 173.5  | 173.2  | 173.8  |
| 30°   | 1246.5 | 1088.4 | 644.6  | 231.1  | 175.5  | 168.2  | 165.5  | 164.9  | 164.6  | 164.3  | 164.6  |
| 32.5° | 1286.1 | 1096.7 | 563.6  | 192.1  | 164.0  | 156.9  | 155.2  | 156.0  | 155.2  | 155.2  | 155.2  |
| 35°   | 1357.7 | 1121.5 | 478.8  | 167.6  | 151.9  | 146.0  | 144.2  | 145.4  | 144.8  | 144.8  | 144.5  |
| 37.5° | 1462.0 | 1167.6 | 393.4  | 152.8  | 141.3  | 135.1  | 132.7  | 134.5  | 133.9  | 133.9  | 133.6  |
| 40°   | 1589.1 | 1234.7 | 312.1  | 141.6  | 130.9  | 124.4  | 122.3  | 123.2  | 121.8  | 121.8  | 122.3  |
| 42.5° | 1746.0 | 1319.8 | 241.2  | 130.6  | 120.6  | 114.4  | 113.2  | 112.3  | 109.6  | 108.2  | 108.5  |
| 45°   | 1920.4 | 1408.5 | 188.0  | 120.0  | 110.8  | 105.8  | 104.0  | 101.7  | 97.2   | 94.3   | 94.6   |
| 47.5° | 2076.1 | 1476.8 | 152.8  | 109.6  | 102.0  | 98.1   | 95.5   | 91.0   | 84.5   | 81.0   | 81.3   |
| 50°   | 2158.0 | 1487.1 | 130.0  | 99.3   | 93.7   | 89.8   | 86.0   | 79.2   | 71.5   | 67.7   | 67.4   |
| 52.5° | 2178.9 | 1438.6 | 113.2  | 89.8   | 85.4   | 81.0   | 76.0   | 66.8   | 58.2   | 54.1   | 53.5   |
| 55°   | 2186.6 | 1364.8 | 98.1   | 81.0   | 76.5   | 71.5   | 65.0   | 54.7   | 46.7   | 42.6   | 42.3   |
| 57.5° | 2161.2 | 1254.5 | 86.3   | 73.0   | 67.7   | 61.5   | 53.5   | 43.7   | 36.1   | 32.8   | 32.8   |
| 60°   | 2104.8 | 1105.3 | 77.1   | 64.4   | 58.5   | 51.4   | 43.1   | 34.0   | 26.9   | 24.2   | 24.2   |
| 62.5° | 1992.2 | 912.0  | 68.6   | 55.6   | 49.9   | 42.6   | 34.9   | 25.7   | 18.9   | 17.4   | 17.7   |
| 65°   | 1779.7 | 691.8  | 60.0   | 47.6   | 42.6   | 35.2   | 27.2   | 18.3   | 12.7   | 12.7   | 13.3   |
| 67.5° | 1451.4 | 480.5  | 51.1   | 40.5   | 36.6   | 28.7   | 20.7   | 12.7   | 8.9    | 10.0   | 11.2   |
| 70°   | 960.8  | 269.5  | 43.7   | 33.4   | 31.3   | 22.8   | 15.4   | 8.6    | 7.1    | 9.5    | 11.5   |
| 72.5° | 362.6  | 104.9  | 36.6   | 26.9   | 27.2   | 17.4   | 10.9   | 6.5    | 6.5    | 10.3   | 13.6   |
| 75°   | 101.1  | 51.4   | 26.3   | 19.8   | 21.3   | 12.7   | 8.0    | 5.6    | 6.2    | 11.8   | 16.0   |
| 77.5° | 59.4   | 37.8   | 17.1   | 11.5   | 14.5   | 8.9    | 5.3    | 4.4    | 5.3    | 10.0   | 15.4   |
| 80°   | 47.9   | 20.1   | 10.0   | 5.9    | 8.0    | 5.0    | 3.5    | 2.7    | 1.5    | 3.8    | 8.0    |
| 82.5° | 47.9   | 12.1   | 4.7    | 4.1    | 4.1    | 2.7    | 1.8    | 1.2    | 0.3    | 0.0    | 2.1    |
| 85°   | 32.2   | 5.0    | 3.0    | 2.7    | 2.1    | 0.9    | 0.6    | 0.3    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.3    | 2.1    | 1.2    | 0.6    | 0.3    | 0.0    | 0.0    | 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)