

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: P386626

Luminaire Tested: GAW-SA2B-735-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-735-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7956.7 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

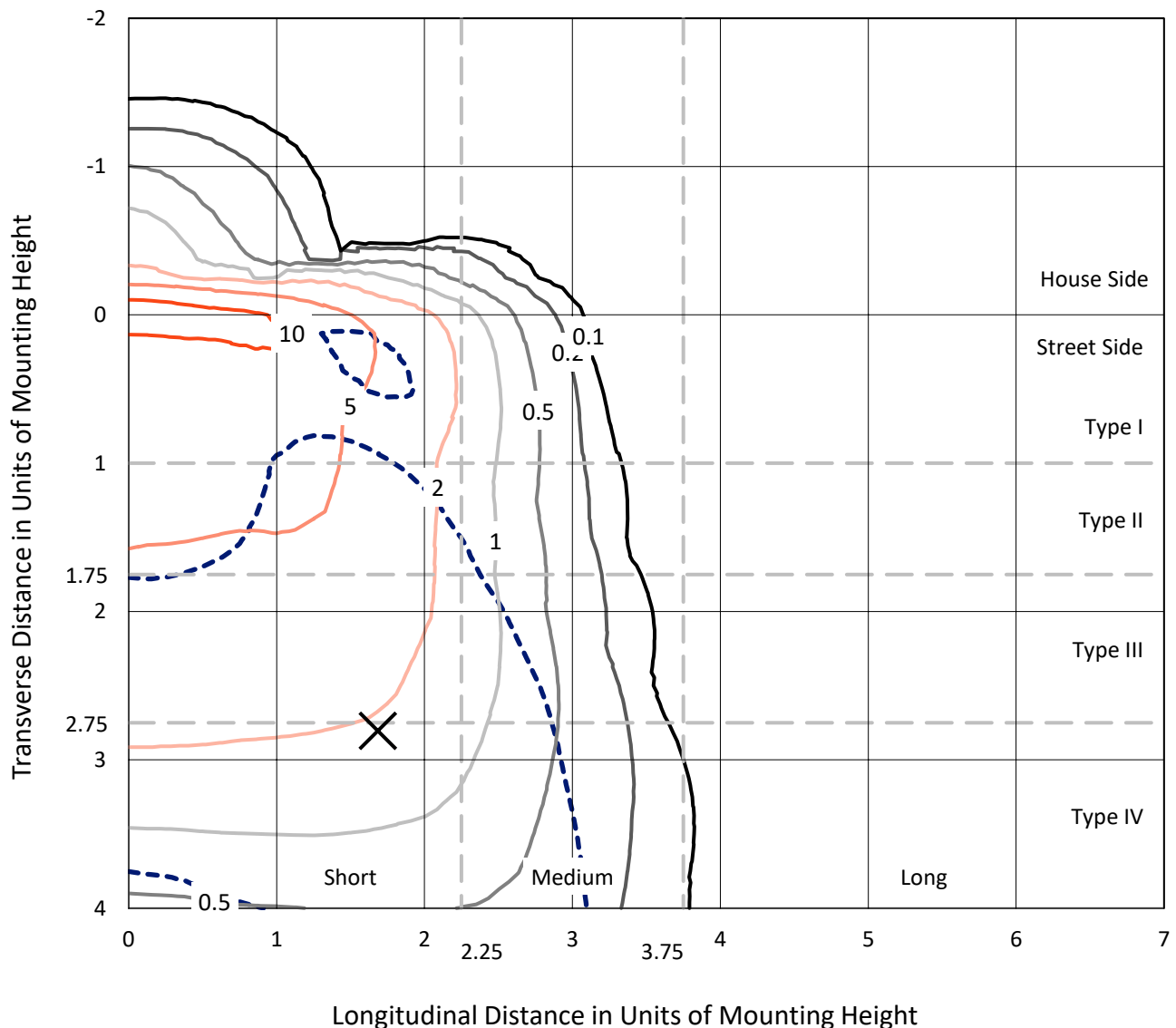
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

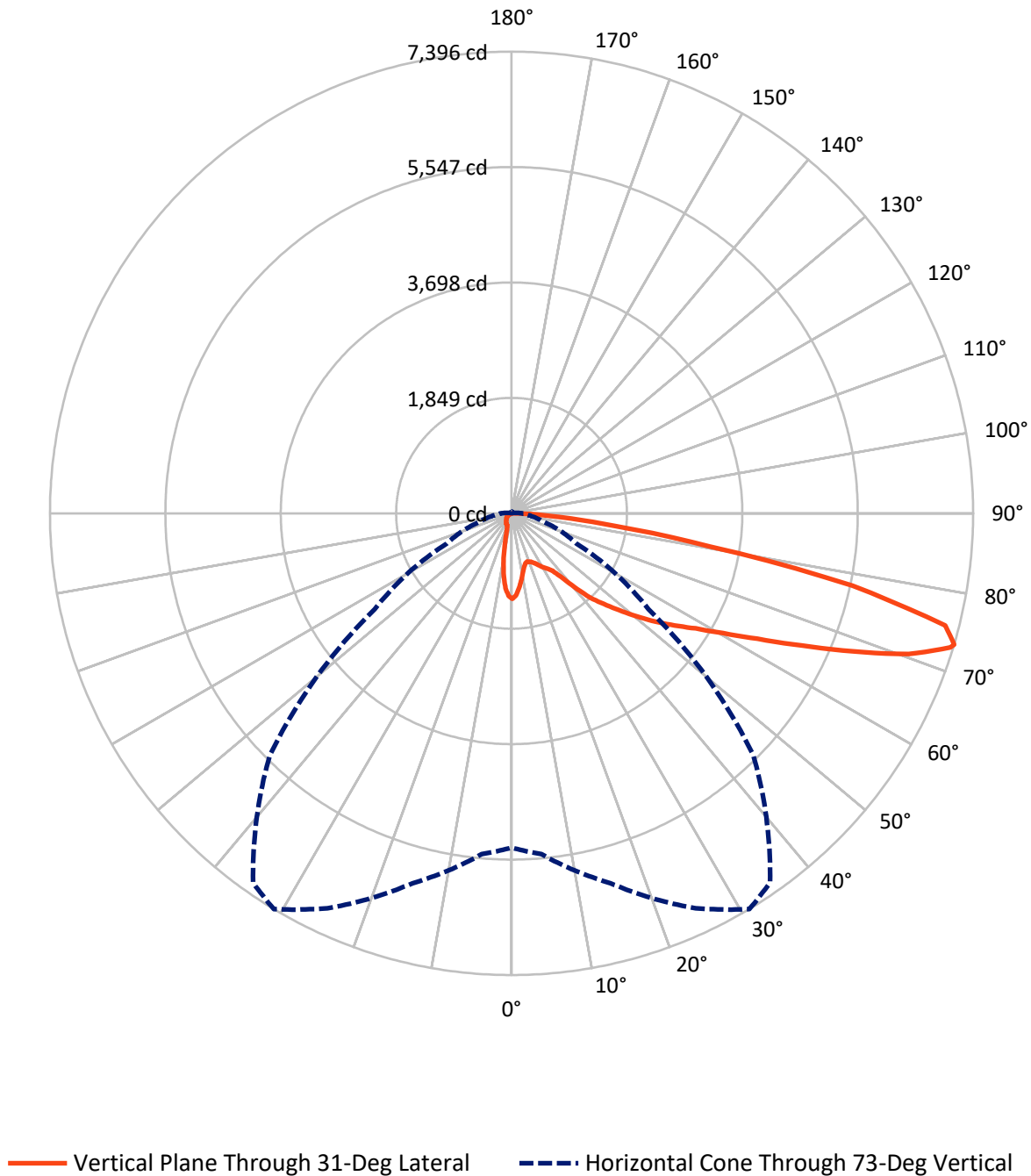
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - 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    | 725.3    | 0.0    | 725.3  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 7231.4   | 0.0    | 7231.4 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 7956.7   | 0.0    | 7956.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.5  | 1.4       |
| 10°-20°   | 246.5  | 3.1       |
| 20°-30°   | 369.3  | 4.6       |
| 30°-40°   | 587.5  | 7.4       |
| 40°-50°   | 1049.1 | 13.2      |
| 50°-60°   | 1627.9 | 20.5      |
| 60°-70°   | 2164.1 | 27.2      |
| 70°-80°   | 1627.8 | 20.5      |
| 80°-90°   | 171.0  | 2.1       |
| 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°    | 7956.7 | 100.0     |
| 0°-180°   | 7956.7 | 100.0     |

**Coefficient of Utilization**



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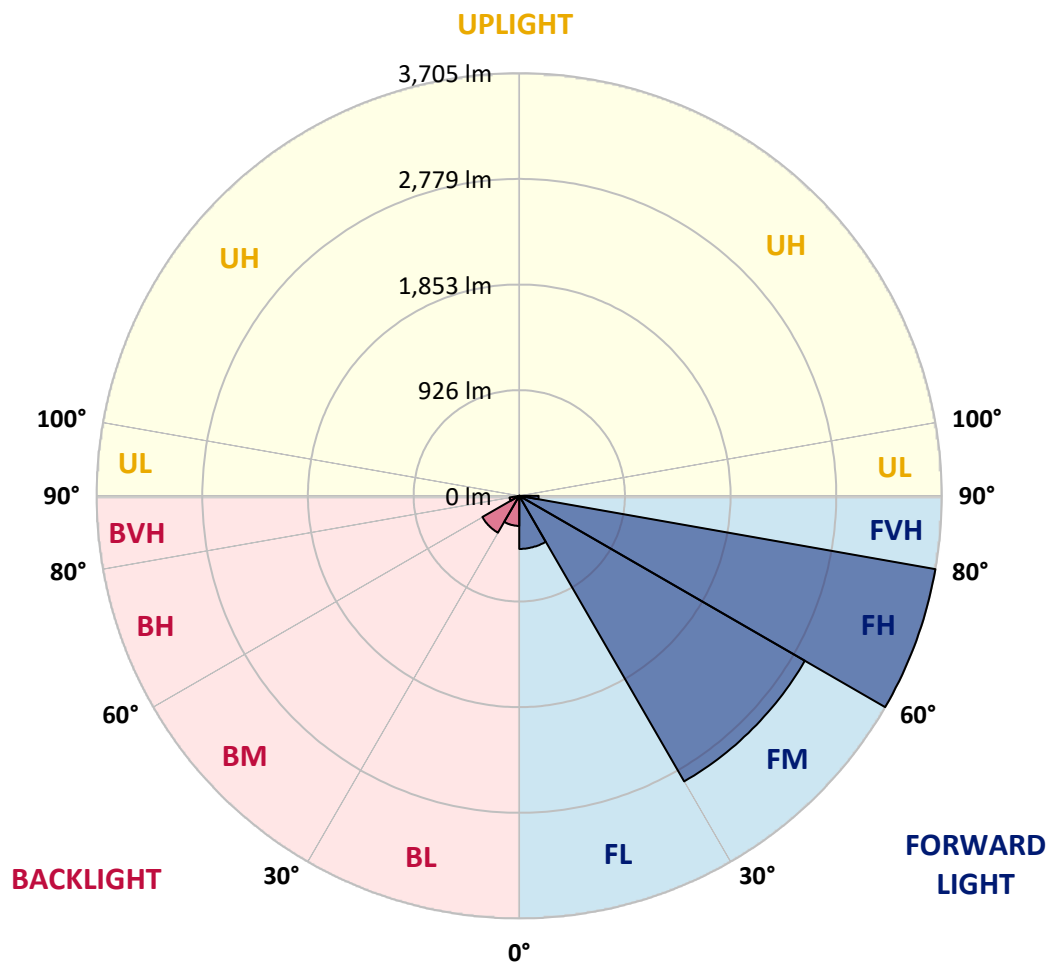
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 465.5  | 5.9       |                         |      |         |
| FM   | (30°-60°)   | 2891.2 | 36.3      |                         |      |         |
| FH   | (60°-80°)   | 3705.1 | 46.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 169.6  | 2.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 263.7  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 373.3  | 4.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 86.8   | 1.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.4    | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 31°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 |
| 2.5°  | 1297.3 | 1302.8 | 1308.6 | 1309.8 | 1319.5 | 1319.9 | 1333.9 | 1344.5 | 1355.0 | 1365.0 | 1368.6 |
| 5°    | 1164.2 | 1173.1 | 1183.6 | 1194.2 | 1214.8 | 1223.0 | 1257.2 | 1292.2 | 1325.8 | 1357.7 | 1373.2 |
| 7.5°  | 1022.1 | 1032.2 | 1047.0 | 1073.1 | 1096.0 | 1112.0 | 1166.1 | 1228.4 | 1290.7 | 1349.5 | 1383.4 |
| 10°   | 892.4  | 901.7  | 917.3  | 944.9  | 980.4  | 1002.1 | 1075.0 | 1161.5 | 1253.0 | 1342.1 | 1398.6 |
| 12.5° | 809.9  | 814.9  | 823.5  | 853.1  | 885.0  | 909.5  | 995.2  | 1102.3 | 1221.8 | 1341.7 | 1423.1 |
| 15°   | 794.6  | 796.2  | 789.2  | 802.4  | 827.4  | 851.1  | 938.0  | 1054.4 | 1198.0 | 1347.9 | 1455.0 |
| 17.5° | 818.8  | 818.0  | 794.6  | 793.1  | 813.0  | 832.4  | 909.9  | 1021.3 | 1181.3 | 1362.3 | 1496.3 |
| 20°   | 855.4  | 852.7  | 812.2  | 804.8  | 825.8  | 844.1  | 907.9  | 1008.8 | 1175.1 | 1386.5 | 1546.5 |
| 22.5° | 904.1  | 899.4  | 836.0  | 828.2  | 850.7  | 869.8  | 932.1  | 1020.8 | 1180.5 | 1418.8 | 1605.0 |
| 25°   | 964.4  | 957.4  | 876.8  | 868.3  | 891.2  | 910.3  | 975.4  | 1055.5 | 1196.9 | 1458.1 | 1678.9 |
| 27.5° | 1032.6 | 1022.4 | 942.2  | 920.0  | 946.2  | 966.0  | 1033.0 | 1108.5 | 1222.5 | 1499.7 | 1769.6 |
| 30°   | 1096.8 | 1083.6 | 1011.2 | 974.5  | 1006.5 | 1028.6 | 1095.2 | 1171.5 | 1263.9 | 1564.0 | 1893.8 |
| 32.5° | 1161.5 | 1146.6 | 1072.7 | 1029.0 | 1057.9 | 1082.0 | 1159.5 | 1258.4 | 1341.4 | 1662.2 | 2058.9 |
| 35°   | 1310.2 | 1294.6 | 1203.8 | 1131.9 | 1131.5 | 1145.1 | 1249.4 | 1377.2 | 1443.8 | 1798.8 | 2255.9 |
| 37.5° | 1560.5 | 1551.6 | 1465.2 | 1328.5 | 1291.9 | 1276.7 | 1372.1 | 1518.9 | 1590.9 | 1986.8 | 2478.2 |
| 40°   | 1834.6 | 1826.8 | 1729.9 | 1606.1 | 1550.4 | 1513.0 | 1548.0 | 1716.3 | 1798.8 | 2216.6 | 2705.2 |
| 42.5° | 2144.2 | 2107.2 | 1934.3 | 1897.3 | 1847.5 | 1819.0 | 1787.5 | 1959.6 | 2054.3 | 2466.6 | 2930.3 |
| 45°   | 2425.2 | 2363.0 | 2138.7 | 2082.6 | 2071.4 | 2078.3 | 2095.9 | 2286.7 | 2341.5 | 2763.6 | 3154.5 |
| 47.5° | 2592.7 | 2543.6 | 2371.5 | 2317.8 | 2314.7 | 2361.1 | 2493.4 | 2656.1 | 2627.8 | 3022.5 | 3351.9 |
| 50°   | 2752.0 | 2707.5 | 2564.6 | 2577.9 | 2592.3 | 2655.4 | 2944.6 | 3036.1 | 2889.0 | 3257.3 | 3533.0 |
| 52.5° | 2880.8 | 2813.1 | 2738.3 | 2812.6 | 2883.6 | 2985.2 | 3410.4 | 3377.2 | 3074.4 | 3444.2 | 3688.0 |
| 55°   | 2955.1 | 2924.4 | 2960.6 | 3035.4 | 3168.6 | 3333.6 | 3849.9 | 3661.1 | 3209.8 | 3614.8 | 3791.1 |
| 57.5° | 3227.8 | 3167.4 | 3239.4 | 3304.0 | 3477.7 | 3708.5 | 4226.4 | 3872.5 | 3307.5 | 3720.3 | 3814.9 |
| 60°   | 3557.5 | 3508.8 | 3551.3 | 3658.8 | 3893.1 | 4164.5 | 4578.4 | 4044.9 | 3358.5 | 3788.0 | 3753.3 |
| 62.5° | 4082.3 | 4018.1 | 3991.7 | 4111.9 | 4422.7 | 4719.0 | 4845.5 | 4164.5 | 3347.2 | 3758.0 | 3542.4 |
| 65°   | 4785.6 | 4719.0 | 4600.6 | 4709.6 | 5104.8 | 5313.9 | 5144.1 | 4189.8 | 3269.4 | 3515.5 | 3008.9 |
| 67.5° | 5505.8 | 5457.5 | 5356.3 | 5540.1 | 5896.8 | 5964.1 | 5459.9 | 4128.3 | 3018.6 | 2850.4 | 2125.8 |
| 70°   | 5981.6 | 5961.0 | 6026.8 | 6433.3 | 6751.3 | 6731.9 | 5749.6 | 3797.8 | 2352.8 | 1752.8 | 1051.7 |
| 72.5° | 5638.6 | 5737.4 | 6223.4 | 6960.4 | 7349.0 | 7190.1 | 5600.9 | 2916.3 | 1344.8 | 674.4  | 304.1  |
| 73°   | 5354.4 | 5480.9 | 6135.0 | 6980.3 | 7396.1 | 7222.1 | 5475.8 | 2676.8 | 1146.2 | 532.3  | 230.5  |
| 75°   | 3724.9 | 3880.3 | 5079.1 | 6501.0 | 7175.7 | 6881.1 | 4564.3 | 1638.4 | 531.0  | 236.0  | 93.1   |
| 77.5° | 1808.5 | 1923.4 | 2796.7 | 4697.2 | 5580.6 | 5376.2 | 2841.5 | 610.5  | 239.8  | 147.6  | 42.8   |
| 80°   | 675.1  | 750.7  | 1214.0 | 2390.7 | 3225.0 | 3309.5 | 1249.9 | 230.9  | 159.6  | 118.7  | 21.8   |
| 82.5° | 176.8  | 197.0  | 447.7  | 1066.0 | 1652.8 | 1729.9 | 394.0  | 116.4  | 116.8  | 97.7   | 13.2   |
| 85°   | 56.5   | 64.6   | 139.8  | 478.5  | 778.7  | 683.7  | 102.8  | 56.5   | 84.9   | 72.8   | 7.4    |
| 87.5° | 7.0    | 8.9    | 44.3   | 112.5  | 171.7  | 95.3   | 16.0   | 16.7   | 36.2   | 40.5   | 4.3    |
| 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°    | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 | 1369.0 |
| 2.5°  | 1372.1 | 1370.1 | 1370.5 | 1360.4 | 1353.8 | 1340.5 | 1326.9 | 1320.7 | 1314.0 | 1311.3 | 1314.0 |
| 5°    | 1379.1 | 1375.6 | 1365.5 | 1334.3 | 1301.2 | 1258.4 | 1218.3 | 1188.0 | 1149.7 | 1139.2 | 1150.1 |
| 7.5°  | 1390.0 | 1383.0 | 1353.4 | 1289.9 | 1216.3 | 1134.6 | 1042.7 | 975.7  | 920.8  | 885.4  | 898.2  |
| 10°   | 1406.0 | 1392.7 | 1333.1 | 1225.3 | 1093.6 | 948.9  | 818.4  | 716.8  | 644.8  | 615.2  | 614.0  |
| 12.5° | 1432.9 | 1407.9 | 1308.2 | 1141.2 | 943.8  | 750.7  | 579.7  | 469.6  | 411.2  | 373.4  | 372.6  |
| 15°   | 1462.4 | 1425.8 | 1276.7 | 1040.4 | 769.4  | 537.7  | 373.4  | 289.7  | 251.9  | 239.8  | 238.3  |
| 17.5° | 1498.6 | 1446.5 | 1235.8 | 916.2  | 586.7  | 356.2  | 243.8  | 219.6  | 218.0  | 216.9  | 216.9  |
| 20°   | 1544.2 | 1471.0 | 1183.3 | 774.1  | 416.2  | 237.9  | 207.1  | 208.7  | 209.5  | 207.9  | 208.3  |
| 22.5° | 1597.2 | 1495.9 | 1120.5 | 621.4  | 281.5  | 199.0  | 198.2  | 200.1  | 200.9  | 200.1  | 200.6  |
| 25°   | 1658.6 | 1524.7 | 1044.2 | 461.3  | 203.3  | 188.8  | 190.8  | 193.5  | 195.5  | 195.5  | 195.5  |
| 27.5° | 1735.0 | 1559.8 | 952.4  | 322.0  | 175.6  | 178.3  | 183.7  | 188.8  | 191.5  | 192.3  | 192.3  |
| 30°   | 1834.3 | 1603.4 | 842.2  | 220.8  | 159.6  | 164.3  | 174.4  | 184.1  | 189.2  | 190.0  | 190.4  |
| 32.5° | 1959.6 | 1652.4 | 714.5  | 163.2  | 146.0  | 149.6  | 160.4  | 176.8  | 186.5  | 188.1  | 188.1  |
| 35°   | 2103.3 | 1709.2 | 577.0  | 142.1  | 136.3  | 137.4  | 146.0  | 164.7  | 181.9  | 186.1  | 186.5  |
| 37.5° | 2260.6 | 1765.3 | 438.8  | 132.7  | 128.1  | 128.1  | 134.3  | 150.3  | 170.5  | 183.7  | 185.3  |
| 40°   | 2407.4 | 1799.2 | 307.6  | 125.4  | 120.7  | 120.7  | 126.2  | 137.8  | 156.9  | 176.8  | 181.0  |
| 42.5° | 2542.8 | 1810.9 | 214.2  | 118.4  | 113.7  | 114.9  | 119.5  | 128.9  | 143.3  | 163.2  | 167.0  |
| 45°   | 2682.3 | 1808.9 | 156.1  | 110.2  | 106.7  | 110.2  | 113.7  | 120.7  | 131.2  | 142.5  | 143.3  |
| 47.5° | 2787.4 | 1792.6 | 123.8  | 102.4  | 100.0  | 104.7  | 107.8  | 112.5  | 118.4  | 117.6  | 117.6  |
| 50°   | 2885.9 | 1752.8 | 99.7   | 91.9   | 93.5   | 98.9   | 100.4  | 102.0  | 102.4  | 95.0   | 94.2   |
| 52.5° | 2960.6 | 1690.9 | 79.8   | 80.6   | 86.8   | 92.2   | 90.7   | 88.4   | 84.5   | 75.5   | 73.9   |
| 55°   | 2985.6 | 1571.8 | 62.7   | 66.6   | 77.1   | 84.1   | 78.3   | 73.2   | 65.8   | 58.4   | 56.8   |
| 57.5° | 2940.4 | 1418.0 | 51.0   | 51.8   | 65.0   | 70.8   | 64.3   | 58.4   | 50.3   | 44.0   | 42.8   |
| 60°   | 2844.6 | 1247.1 | 42.1   | 38.9   | 50.3   | 55.3   | 51.0   | 45.2   | 37.8   | 33.1   | 32.7   |
| 62.5° | 2654.6 | 1064.9 | 34.7   | 30.3   | 38.1   | 42.5   | 39.7   | 35.4   | 29.2   | 26.1   | 25.7   |
| 65°   | 2255.1 | 851.9  | 28.0   | 24.5   | 29.6   | 33.1   | 30.7   | 27.6   | 23.0   | 20.7   | 20.3   |
| 67.5° | 1574.1 | 575.8  | 23.0   | 20.3   | 23.4   | 26.1   | 24.1   | 22.5   | 18.3   | 17.9   | 18.3   |
| 70°   | 759.2  | 277.6  | 19.1   | 16.3   | 18.3   | 20.3   | 19.4   | 18.3   | 17.6   | 20.3   | 23.4   |
| 72.5° | 217.7  | 93.1   | 15.2   | 13.6   | 14.7   | 16.0   | 16.7   | 16.3   | 19.1   | 24.5   | 28.5   |
| 73°   | 167.4  | 75.2   | 14.4   | 12.9   | 14.0   | 15.6   | 16.3   | 16.0   | 19.4   | 24.9   | 28.5   |
| 75°   | 71.7   | 36.2   | 10.9   | 10.5   | 11.6   | 13.6   | 14.4   | 14.4   | 19.4   | 25.3   | 27.2   |
| 77.5° | 32.3   | 19.4   | 7.0    | 8.2    | 10.1   | 10.9   | 12.0   | 12.0   | 15.6   | 19.4   | 19.4   |
| 80°   | 18.3   | 10.5   | 5.4    | 6.2    | 7.4    | 7.4    | 7.4    | 6.6    | 7.0    | 7.8    | 8.5    |
| 82.5° | 11.6   | 7.0    | 4.3    | 5.1    | 4.7    | 3.9    | 3.1    | 3.1    | 2.7    | 3.1    | 3.9    |
| 85°   | 6.6    | 3.9    | 3.9    | 3.1    | 2.0    | 1.6    | 2.0    | 1.6    | 0.4    | 0.0    | 0.4    |
| 87.5° | 3.9    | 2.3    | 1.1    | 0.0    | 0.0    | 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)