

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: P319604

Luminaire Tested: **GAN-SA0B-727-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47307 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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

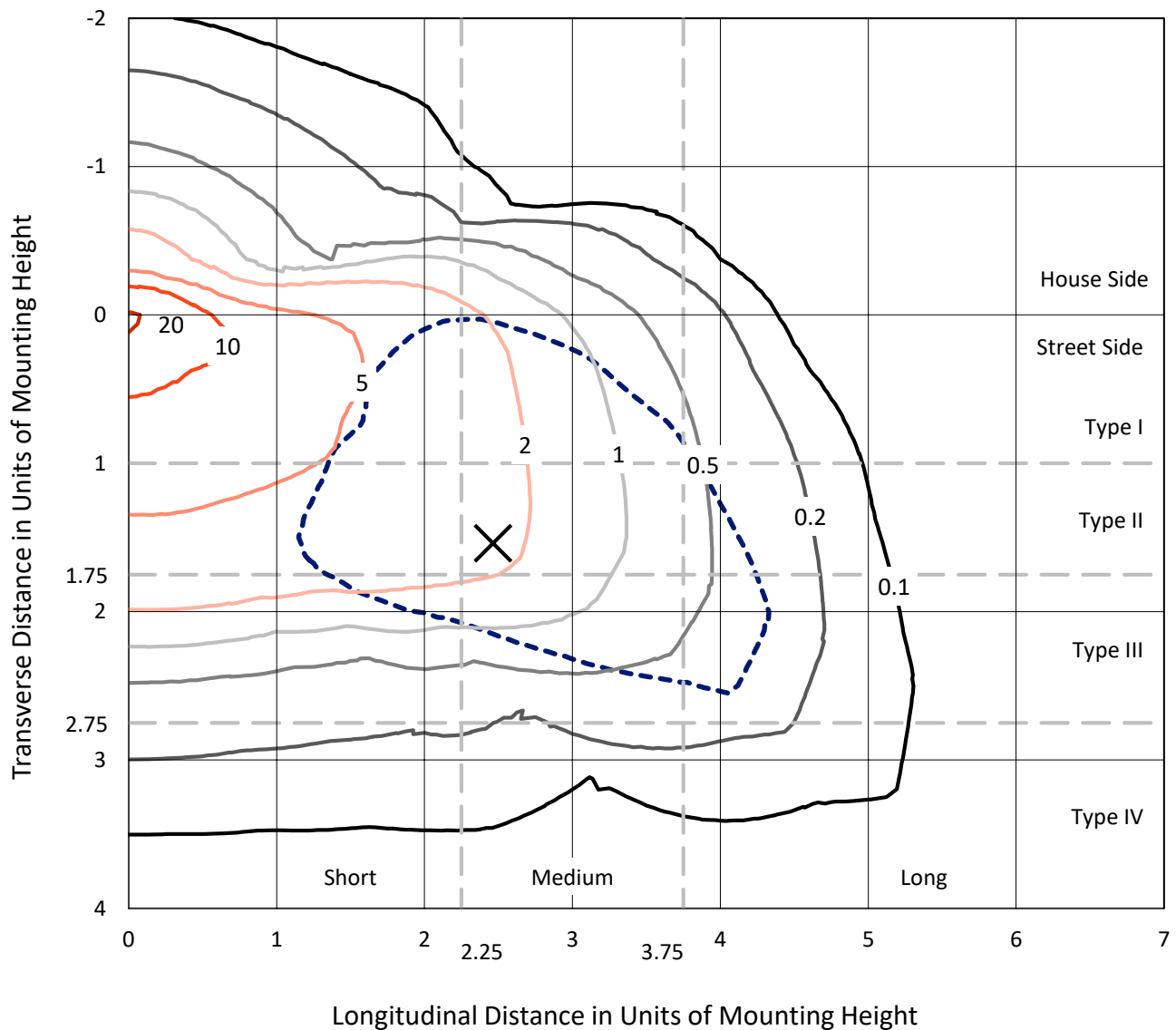


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

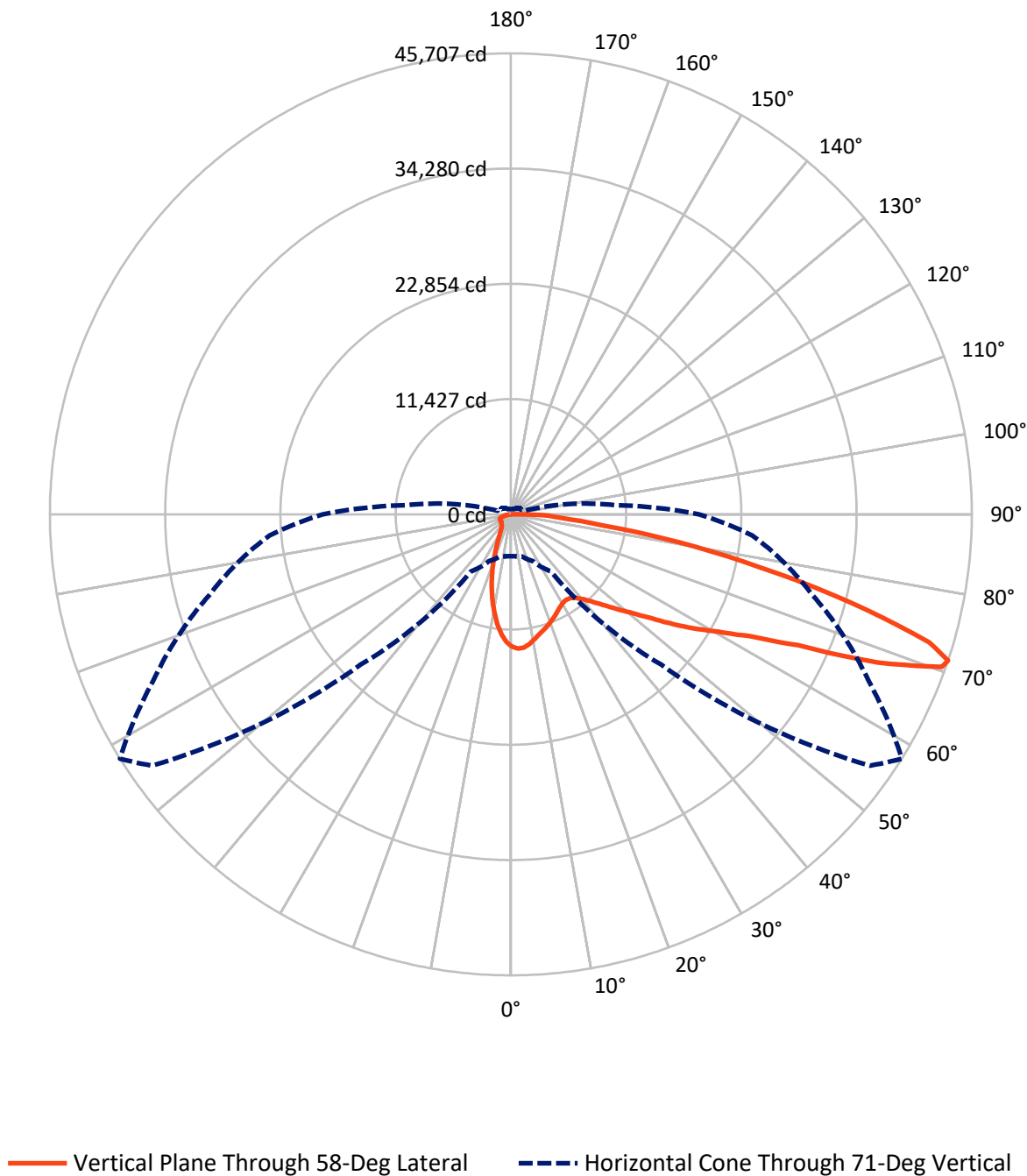


Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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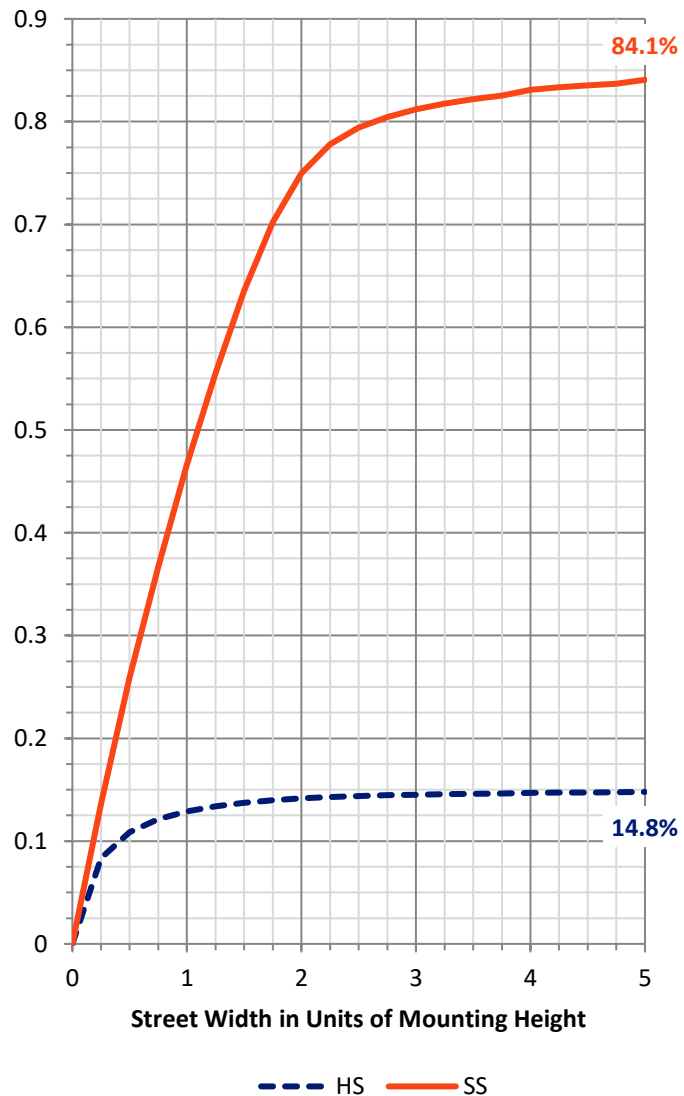
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7072.7   | 0.0    | 7072.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 40234.3  | 0.0    | 40234.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 47307.0  | 0.0    | 47307.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1130.8  | 2.4       |
| 10°-20°   | 2514.4  | 5.3       |
| 20°-30°   | 3195.5  | 6.8       |
| 30°-40°   | 4070.4  | 8.6       |
| 40°-50°   | 5772.1  | 12.2      |
| 50°-60°   | 8932.5  | 18.9      |
| 60°-70°   | 12160.5 | 25.7      |
| 70°-80°   | 8112.5  | 17.1      |
| 80°-90°   | 1418.3  | 3.0       |
| 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°    | 47307.0 | 100.0     |
| 0°-180°   | 47307.0 | 100.0     |

**Coefficient of Utilization**



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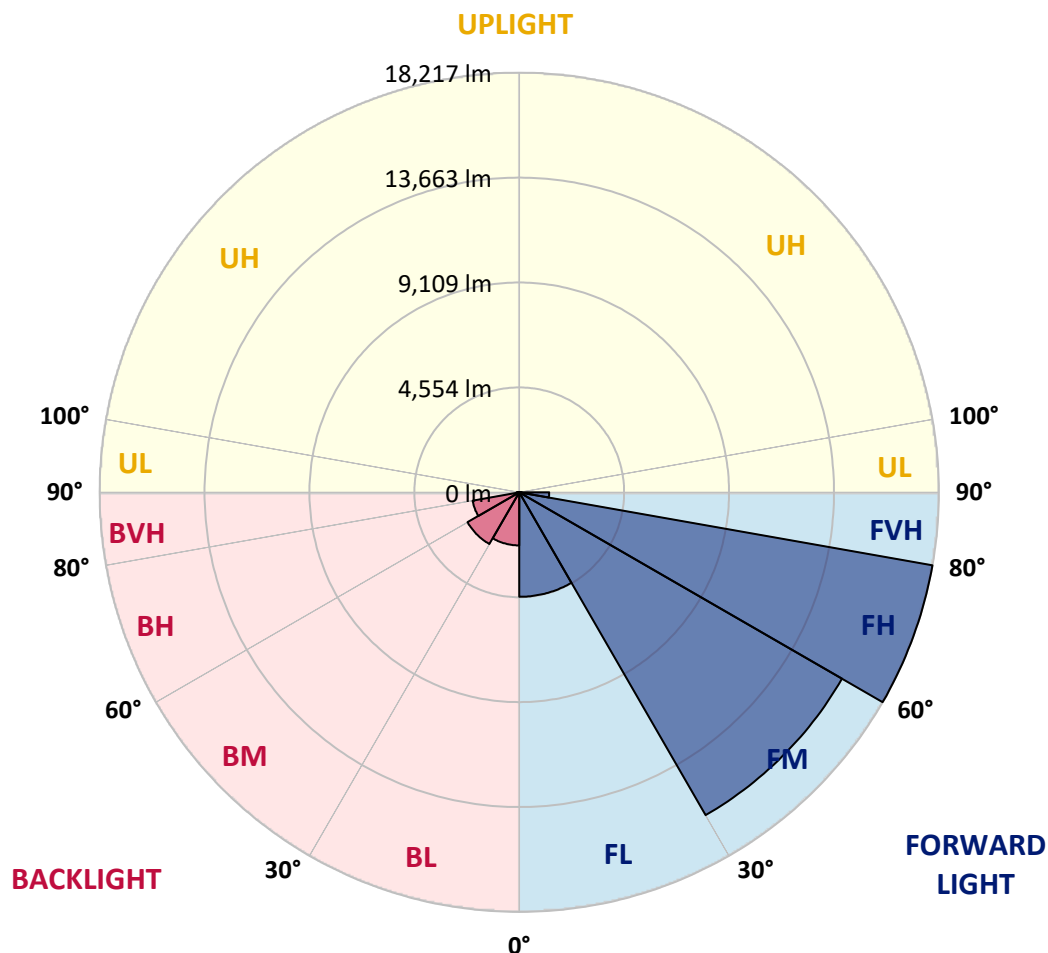
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4535.2  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 16181.3 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 18217.3 | 38.5      |                         |      | G5      |
| FVH  | (80°-90°)   | 1300.5  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 2305.5  | 4.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2593.8  | 5.5       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2055.6  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 117.8   | 0.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 |
| 2.5°  | 13454.9 | 13436.8 | 13443.4 | 13430.2 | 13398.9 | 13367.6 | 13321.4 | 13329.7 | 13265.4 | 13169.8 | 13051.2 |
| 5°    | 13201.1 | 13194.5 | 13244.0 | 13272.0 | 13295.1 | 13276.9 | 13263.7 | 13280.2 | 13186.3 | 13054.5 | 12848.5 |
| 7.5°  | 12668.9 | 12596.4 | 12659.0 | 12752.9 | 12841.9 | 12909.5 | 12998.4 | 13010.0 | 12950.7 | 12812.2 | 12542.0 |
| 10°   | 11912.5 | 11843.3 | 11935.6 | 12082.2 | 12260.2 | 12421.7 | 12601.3 | 12634.3 | 12645.8 | 12520.6 | 12192.6 |
| 12.5° | 11128.1 | 11075.4 | 11167.7 | 11373.6 | 11668.6 | 11917.4 | 12204.2 | 12253.6 | 12355.8 | 12271.7 | 11869.6 |
| 15°   | 10426.1 | 10406.3 | 10518.4 | 10721.1 | 11060.5 | 11441.2 | 11854.8 | 11945.4 | 12118.5 | 12090.5 | 11617.5 |
| 17.5° | 9819.7  | 9814.7  | 9900.4  | 10113.0 | 10488.7 | 10969.9 | 11507.1 | 11660.4 | 11917.4 | 11950.4 | 11409.9 |
| 20°   | 9368.2  | 9358.3  | 9417.6  | 9574.2  | 9961.4  | 10506.9 | 11131.4 | 11342.3 | 11713.1 | 11828.5 | 11195.7 |
| 22.5° | 9125.9  | 9124.3  | 9125.9  | 9200.1  | 9516.5  | 10024.0 | 10765.6 | 11022.6 | 11513.7 | 11731.2 | 10958.4 |
| 25°   | 9084.7  | 9079.8  | 9043.5  | 9035.3  | 9214.9  | 9620.3  | 10403.0 | 10686.5 | 11324.2 | 11663.7 | 10732.6 |
| 27.5° | 9191.8  | 9198.4  | 9150.7  | 9073.2  | 9109.5  | 9355.0  | 10088.3 | 10391.5 | 11172.6 | 11650.5 | 10576.1 |
| 30°   | 9414.3  | 9411.0  | 9369.8  | 9289.1  | 9218.2  | 9256.1  | 9864.2  | 10167.4 | 11070.4 | 11708.2 | 10469.0 |
| 32.5° | 9659.8  | 9678.0  | 9669.7  | 9625.2  | 9519.8  | 9368.2  | 9796.6  | 10093.2 | 11040.8 | 11846.6 | 10422.8 |
| 35°   | 9954.8  | 9974.6  | 10033.9 | 10068.5 | 9944.9  | 9701.0  | 9941.6  | 10198.7 | 11126.5 | 12106.9 | 10497.0 |
| 37.5° | 10235.0 | 10286.0 | 10452.5 | 10599.1 | 10493.7 | 10221.8 | 10327.2 | 10510.1 | 11391.8 | 12517.3 | 10696.4 |
| 40°   | 10557.9 | 10602.4 | 10874.3 | 11185.8 | 11169.3 | 10887.5 | 10948.5 | 11070.4 | 11859.8 | 13105.6 | 11057.2 |
| 42.5° | 10876.0 | 10965.0 | 11358.8 | 11800.4 | 11927.3 | 11678.5 | 11775.7 | 11840.0 | 12518.9 | 13885.0 | 11686.7 |
| 45°   | 11299.5 | 11395.1 | 11942.2 | 12474.4 | 12771.0 | 12631.0 | 12785.9 | 12810.6 | 13347.8 | 14946.2 | 12601.3 |
| 47.5° | 11940.5 | 12049.3 | 12687.0 | 13245.6 | 13698.8 | 13713.6 | 13969.0 | 13959.2 | 14382.7 | 16160.7 | 13753.2 |
| 50°   | 12939.1 | 13095.7 | 13618.0 | 14140.4 | 14690.8 | 14997.3 | 15338.4 | 15290.6 | 15623.5 | 17454.3 | 15079.7 |
| 52.5° | 14247.5 | 14320.0 | 14707.3 | 15092.9 | 15776.8 | 16463.9 | 16953.3 | 16910.5 | 17030.8 | 18784.1 | 16585.9 |
| 55°   | 15603.7 | 15658.1 | 15818.0 | 16028.9 | 16948.4 | 18069.0 | 19103.8 | 19036.3 | 18731.4 | 20165.1 | 18073.9 |
| 57.5° | 16823.2 | 16933.6 | 17044.0 | 17131.3 | 18128.3 | 19746.5 | 21303.7 | 21308.7 | 20577.0 | 21654.7 | 19611.4 |
| 60°   | 17012.7 | 17109.9 | 17839.9 | 18528.7 | 20146.9 | 21984.3 | 23658.5 | 23609.1 | 22486.9 | 23271.3 | 21325.2 |
| 62.5° | 15038.5 | 15257.7 | 16477.1 | 18309.5 | 22091.4 | 26077.6 | 26662.6 | 26601.7 | 24770.9 | 25263.6 | 23320.7 |
| 65°   | 10777.1 | 11025.9 | 12497.5 | 15251.1 | 21148.8 | 30587.9 | 32084.1 | 31263.5 | 27885.3 | 27714.0 | 25657.4 |
| 67.5° | 6217.4  | 6276.8  | 6914.5  | 9125.9  | 16103.0 | 30823.5 | 40354.8 | 39206.3 | 32721.9 | 30493.9 | 26801.0 |
| 70°   | 4597.6  | 4595.9  | 4747.5  | 5616.0  | 8714.0  | 25156.5 | 44288.3 | 45318.2 | 37813.8 | 31408.5 | 25184.5 |
| 71°   | 4157.6  | 4162.5  | 4332.3  | 5111.7  | 6901.3  | 21056.6 | 43452.8 | 45707.1 | 39155.2 | 30957.0 | 24014.5 |
| 72.5° | 3556.1  | 3572.6  | 3808.2  | 4584.4  | 5805.5  | 14521.1 | 39853.9 | 43373.7 | 39791.2 | 29843.0 | 22183.7 |
| 75°   | 2697.6  | 2735.5  | 3061.8  | 3864.3  | 5306.2  | 7364.4  | 29249.8 | 34635.0 | 35348.6 | 26333.0 | 16483.7 |
| 77.5° | 1924.7  | 1967.6  | 2336.7  | 3249.6  | 5044.1  | 5550.0  | 19588.3 | 25263.6 | 26013.4 | 16875.9 | 7435.2  |
| 80°   | 1216.1  | 1267.2  | 1545.7  | 2585.5  | 4739.3  | 5269.9  | 12309.6 | 16981.4 | 14184.9 | 5400.1  | 1891.8  |
| 82.5° | 713.5   | 753.1   | 959.1   | 1689.1  | 3870.9  | 5075.5  | 7242.4  | 9412.7  | 5520.4  | 1631.4  | 860.2   |
| 85°   | 413.6   | 431.7   | 598.2   | 1076.1  | 2811.3  | 4790.4  | 5321.0  | 5261.7  | 2396.0  | 797.6   | 407.0   |
| 87.5° | 192.8   | 214.2   | 354.3   | 561.9   | 1560.5  | 3472.1  | 4205.4  | 3633.6  | 1489.7  | 374.1   | 191.2   |
| 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°    | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 | 13107.2 |
| 2.5°  | 12993.5 | 12965.5 | 12848.5 | 12744.7 | 12635.9 | 12494.2 | 12337.6 | 12317.9 | 12222.3 | 12240.4 | 12207.5 |
| 5°    | 12736.4 | 12665.6 | 12383.8 | 12128.4 | 11826.8 | 11556.6 | 11263.2 | 11128.1 | 10933.7 | 10920.5 | 10871.0 |
| 7.5°  | 12369.0 | 12237.1 | 11800.4 | 11316.0 | 10831.5 | 10370.1 | 9913.6  | 9613.7  | 9307.2  | 9177.0  | 9165.5  |
| 10°   | 11955.3 | 11731.2 | 11088.6 | 10371.7 | 9673.0  | 8999.0  | 8346.5  | 7863.7  | 7428.6  | 7222.6  | 7214.4  |
| 12.5° | 11563.1 | 11231.9 | 10350.3 | 9374.8  | 8419.0  | 7545.6  | 6650.8  | 6016.4  | 5470.9  | 5288.0  | 5210.6  |
| 15°   | 11230.3 | 10763.9 | 9631.8  | 8384.4  | 7224.3  | 6011.4  | 4993.1  | 4325.7  | 3821.4  | 3646.7  | 3613.8  |
| 17.5° | 10907.3 | 10307.5 | 8895.2  | 7384.1  | 5981.8  | 4648.7  | 3628.6  | 3132.6  | 2864.0  | 2793.1  | 2791.5  |
| 20°   | 10586.0 | 9837.8  | 8125.7  | 6360.8  | 4780.5  | 3477.0  | 2789.9  | 2567.4  | 2476.8  | 2468.5  | 2455.3  |
| 22.5° | 10221.8 | 9340.2  | 7316.6  | 5334.2  | 3730.8  | 2733.8  | 2371.3  | 2282.3  | 2270.8  | 2300.4  | 2300.4  |
| 25°   | 9880.7  | 8845.8  | 6495.9  | 4329.0  | 2901.9  | 2280.7  | 2117.5  | 2099.4  | 2130.7  | 2183.4  | 2188.4  |
| 27.5° | 9562.6  | 8369.6  | 5695.1  | 3435.8  | 2325.2  | 2008.8  | 1941.2  | 1962.6  | 2018.6  | 2079.6  | 2081.3  |
| 30°   | 9300.6  | 7919.7  | 4917.3  | 2707.5  | 1964.3  | 1806.1  | 1794.5  | 1837.4  | 1898.4  | 1946.1  | 1957.7  |
| 32.5° | 9097.9  | 7535.7  | 4165.8  | 2176.8  | 1728.6  | 1654.5  | 1664.4  | 1700.6  | 1738.5  | 1764.9  | 1783.0  |
| 35°   | 9004.0  | 7206.2  | 3472.1  | 1835.7  | 1578.7  | 1537.5  | 1550.7  | 1570.4  | 1586.9  | 1606.7  | 1621.5  |
| 37.5° | 9020.5  | 6950.7  | 2852.5  | 1623.2  | 1478.1  | 1456.7  | 1456.7  | 1456.7  | 1456.7  | 1466.6  | 1468.3  |
| 40°   | 9173.7  | 6804.1  | 2348.2  | 1488.0  | 1410.6  | 1387.5  | 1369.4  | 1352.9  | 1339.7  | 1346.3  | 1343.0  |
| 42.5° | 9565.9  | 6790.9  | 1979.1  | 1402.3  | 1356.2  | 1318.3  | 1282.0  | 1259.0  | 1242.5  | 1249.1  | 1252.4  |
| 45°   | 10231.7 | 6955.7  | 1730.3  | 1341.4  | 1305.1  | 1247.4  | 1201.3  | 1176.6  | 1165.0  | 1186.5  | 1189.8  |
| 47.5° | 11093.5 | 7314.9  | 1578.7  | 1296.9  | 1257.3  | 1181.5  | 1132.1  | 1109.0  | 1112.3  | 1143.6  | 1151.9  |
| 50°   | 12204.2 | 7898.3  | 1506.2  | 1268.9  | 1224.4  | 1125.5  | 1074.4  | 1054.6  | 1064.5  | 1109.0  | 1118.9  |
| 52.5° | 13423.6 | 8738.7  | 1514.4  | 1260.6  | 1202.9  | 1084.3  | 1029.9  | 1006.9  | 1023.3  | 1064.5  | 1072.8  |
| 55°   | 14830.9 | 9748.8  | 1651.2  | 1272.2  | 1171.6  | 1057.9  | 993.7   | 954.1   | 967.3   | 1005.2  | 1011.8  |
| 57.5° | 16394.7 | 10905.6 | 1926.4  | 1268.9  | 1132.1  | 1033.2  | 955.8   | 896.4   | 906.3   | 929.4   | 936.0   |
| 60°   | 18022.8 | 12303.0 | 2353.2  | 1278.8  | 1114.0  | 1003.6  | 904.7   | 830.5   | 827.2   | 847.0   | 850.3   |
| 62.5° | 19977.2 | 13919.6 | 2840.9  | 1285.3  | 1125.5  | 965.7   | 837.1   | 764.6   | 754.7   | 759.7   | 763.0   |
| 65°   | 21990.9 | 15089.6 | 2658.0  | 1259.0  | 1161.8  | 934.3   | 777.8   | 700.3   | 682.2   | 678.9   | 680.6   |
| 67.5° | 22053.5 | 13835.6 | 1863.7  | 1206.2  | 1176.6  | 917.9   | 733.3   | 646.0   | 616.3   | 604.8   | 603.1   |
| 70°   | 19777.8 | 11240.2 | 1451.8  | 1150.2  | 1117.3  | 891.5   | 692.1   | 601.5   | 557.0   | 538.9   | 537.2   |
| 71°   | 18667.1 | 10347.0 | 1376.0  | 1122.2  | 1072.8  | 865.1   | 674.0   | 581.7   | 535.6   | 515.8   | 512.5   |
| 72.5° | 16925.3 | 9275.9  | 1283.7  | 1077.7  | 987.1   | 797.6   | 639.4   | 553.7   | 505.9   | 482.8   | 477.9   |
| 75°   | 12146.5 | 6065.8  | 1102.4  | 960.7   | 817.3   | 636.1   | 560.3   | 497.7   | 456.5   | 428.4   | 425.2   |
| 77.5° | 4680.0  | 2414.1  | 833.8   | 799.2   | 626.2   | 497.7   | 461.4   | 430.1   | 400.4   | 372.4   | 370.8   |
| 80°   | 1446.8  | 1079.4  | 608.1   | 601.5   | 453.2   | 370.8   | 359.2   | 351.0   | 339.5   | 309.8   | 303.2   |
| 82.5° | 772.9   | 619.6   | 418.6   | 388.9   | 296.6   | 247.2   | 260.4   | 263.7   | 265.3   | 234.0   | 230.7   |
| 85°   | 369.1   | 327.9   | 235.6   | 220.8   | 173.0   | 138.4   | 159.8   | 173.0   | 174.7   | 143.4   | 133.5   |
| 87.5° | 176.3   | 171.4   | 110.4   | 84.0    | 64.3    | 46.1    | 56.0    | 69.2    | 75.8    | 54.4    | 47.8    |
| 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)