

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: P317357

Luminaire Tested: **GAN-SA3B-727-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15201 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

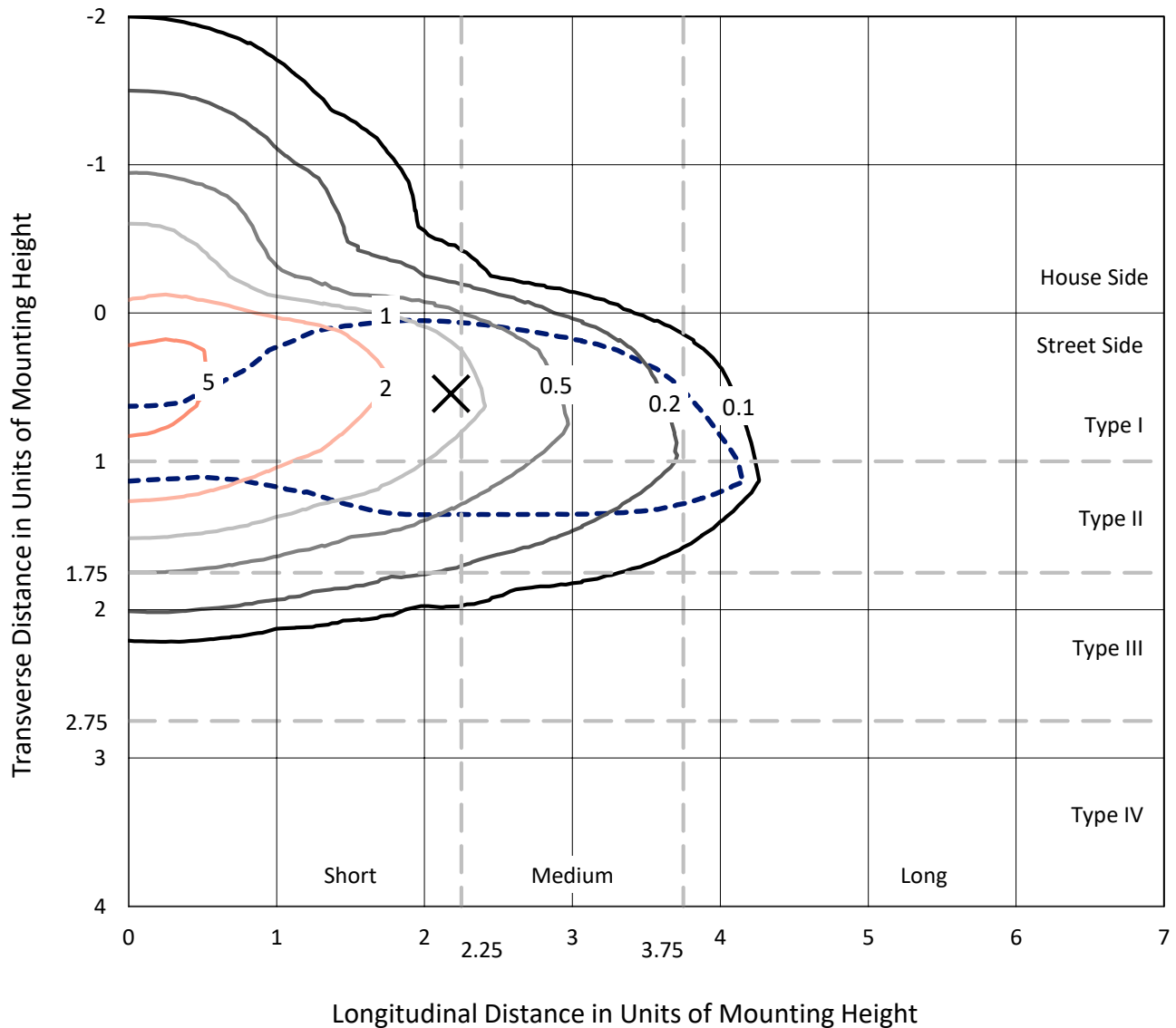
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

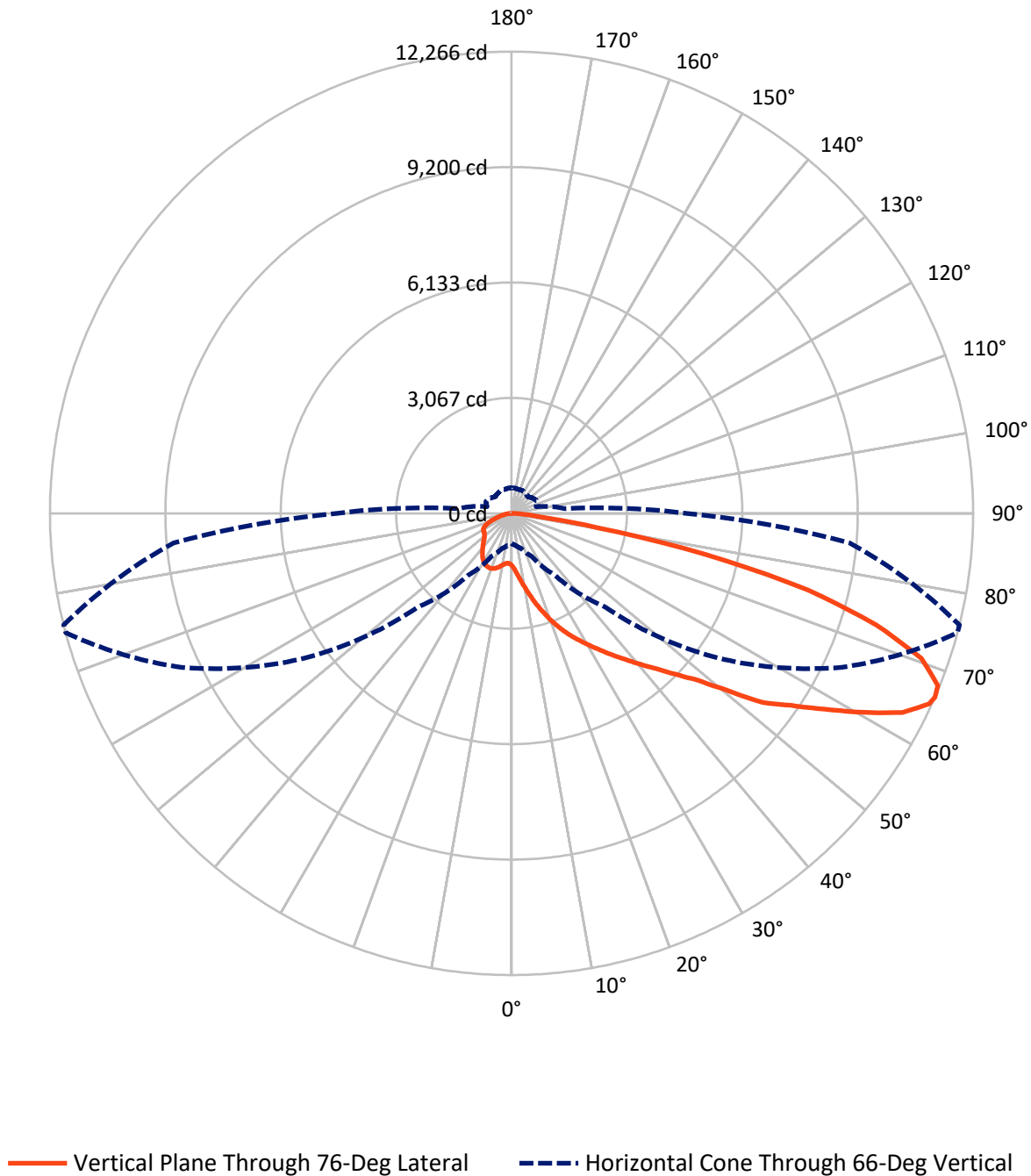
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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    | 2557.8   | 0.0    | 2557.8  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 12643.2  | 0.0    | 12643.2 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 15201.0  | 0.0    | 15201.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 167.9   | 1.1       |
| 10°-20°   | 662.9   | 4.4       |
| 20°-30°   | 1288.2  | 8.5       |
| 30°-40°   | 2102.6  | 13.8      |
| 40°-50°   | 2872.7  | 18.9      |
| 50°-60°   | 3346.1  | 22.0      |
| 60°-70°   | 2999.8  | 19.7      |
| 70°-80°   | 1516.0  | 10.0      |
| 80°-90°   | 244.8   | 1.6       |
| 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°    | 15201.0 | 100.0     |
| 0°-180°   | 15201.0 | 100.0     |

**Coefficient of Utilization**



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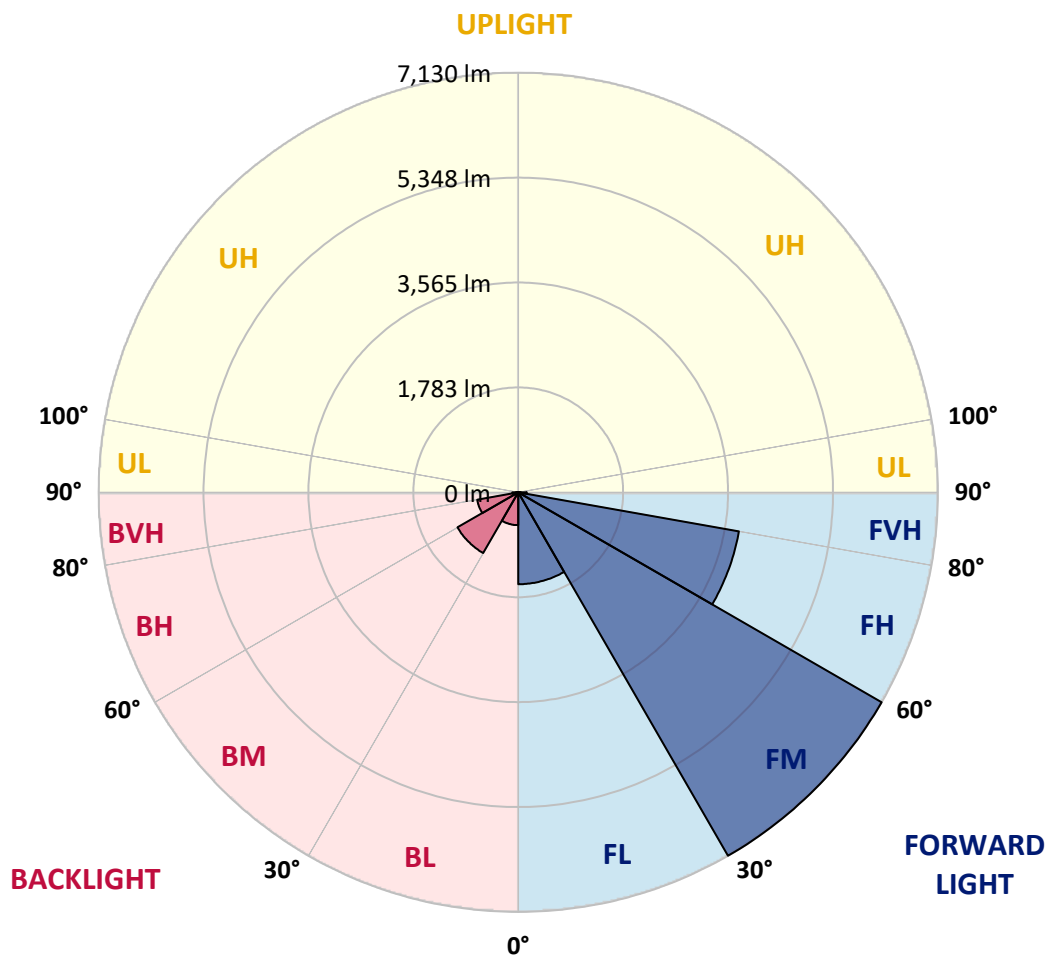
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1561.1 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 7130.3 | 46.9      |                         |      |         |
| FH   | (60°-80°)   | 3807.2 | 25.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 144.6  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 557.9  | 3.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1191.1 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 708.6  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 100.2  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2  | 1388.2  | 1388.2  | 1388.2 |
| 2.5°  | 1842.8 | 1815.0 | 1812.4 | 1771.6 | 1762.3 | 1684.4 | 1627.1 | 1567.3  | 1499.1  | 1485.7  | 1432.1 |
| 5°    | 2367.2 | 2364.6 | 2329.0 | 2262.4 | 2210.3 | 2077.1 | 1945.5 | 1806.2  | 1653.4  | 1628.7  | 1507.9 |
| 7.5°  | 2838.8 | 2834.7 | 2807.4 | 2735.6 | 2660.3 | 2496.7 | 2308.8 | 2095.2  | 1847.5  | 1810.8  | 1610.6 |
| 10°   | 3197.0 | 3195.4 | 3186.1 | 3133.5 | 3069.5 | 2912.6 | 2705.2 | 2413.6  | 2073.0  | 2022.9  | 1739.1 |
| 12.5° | 3473.6 | 3476.7 | 3482.9 | 3464.3 | 3433.8 | 3300.2 | 3087.6 | 2751.1  | 2313.5  | 2263.9  | 1882.1 |
| 15°   | 3660.9 | 3670.2 | 3702.2 | 3728.5 | 3744.5 | 3662.5 | 3456.6 | 3096.3  | 2582.9  | 2523.5  | 2040.5 |
| 17.5° | 3755.3 | 3765.7 | 3820.9 | 3900.4 | 3973.6 | 3965.4 | 3801.8 | 3425.6  | 2841.4  | 2784.1  | 2210.8 |
| 20°   | 3836.9 | 3844.6 | 3906.6 | 4002.0 | 4131.6 | 4188.8 | 4097.0 | 3742.4  | 3124.7  | 3056.6  | 2391.4 |
| 22.5° | 4073.2 | 4083.0 | 4101.6 | 4155.8 | 4270.4 | 4375.6 | 4331.3 | 4042.3  | 3384.3  | 3320.8  | 2562.7 |
| 25°   | 4529.4 | 4541.3 | 4501.1 | 4455.1 | 4476.8 | 4550.1 | 4558.3 | 4315.8  | 3647.5  | 3575.8  | 2747.0 |
| 27.5° | 5079.0 | 5096.1 | 5027.4 | 4909.3 | 4806.0 | 4777.7 | 4767.9 | 4539.8  | 3898.8  | 3815.7  | 2929.1 |
| 30°   | 5617.3 | 5646.7 | 5557.4 | 5404.2 | 5214.8 | 5081.6 | 4983.0 | 4759.1  | 4146.5  | 4067.0  | 3101.0 |
| 32.5° | 6143.1 | 6131.3 | 6001.7 | 5852.1 | 5630.2 | 5463.5 | 5225.1 | 4994.4  | 4425.2  | 4333.8  | 3271.8 |
| 35°   | 6503.4 | 6507.5 | 6387.2 | 6209.7 | 5998.1 | 5870.2 | 5549.2 | 5248.3  | 4709.5  | 4625.4  | 3465.8 |
| 37.5° | 6809.9 | 6790.8 | 6654.6 | 6488.9 | 6306.7 | 6252.0 | 5928.5 | 5528.0  | 5017.6  | 4925.8  | 3672.3 |
| 40°   | 6912.1 | 6889.9 | 6800.6 | 6681.4 | 6535.3 | 6530.7 | 6347.0 | 5844.9  | 5366.0  | 5275.1  | 3905.0 |
| 42.5° | 6850.1 | 6821.8 | 6785.1 | 6752.6 | 6707.7 | 6728.4 | 6740.2 | 6216.4  | 5748.9  | 5647.2  | 4174.4 |
| 45°   | 6621.5 | 6578.7 | 6604.5 | 6675.2 | 6772.7 | 6889.4 | 7095.3 | 6627.7  | 6177.7  | 6092.6  | 4490.7 |
| 47.5° | 6270.1 | 6231.4 | 6311.9 | 6463.1 | 6728.4 | 7023.5 | 7431.2 | 7081.9  | 6689.7  | 6605.0  | 4941.2 |
| 50°   | 5775.7 | 5787.1 | 5902.1 | 6177.2 | 6578.2 | 7085.5 | 7845.1 | 7683.1  | 7433.8  | 7354.8  | 5555.9 |
| 52.5° | 4964.5 | 4966.5 | 5290.6 | 5742.2 | 6311.9 | 7053.5 | 8074.7 | 8451.5  | 8449.9  | 8354.5  | 6141.1 |
| 55°   | 4211.0 | 4257.0 | 4513.4 | 5113.6 | 5880.5 | 6925.5 | 8235.2 | 8825.1  | 9117.2  | 9005.2  | 6686.6 |
| 57.5° | 3475.1 | 3502.0 | 3745.0 | 4347.8 | 5264.8 | 6584.4 | 8399.9 | 9273.5  | 9886.1  | 9815.4  | 7364.7 |
| 60°   | 2638.1 | 2679.4 | 2930.7 | 3487.5 | 4477.3 | 5979.0 | 8415.3 | 9741.6  | 10805.2 | 10734.0 | 8121.7 |
| 62.5° | 1712.3 | 1783.5 | 2018.8 | 2540.6 | 3524.7 | 5108.5 | 8056.2 | 10047.6 | 11676.3 | 11651.0 | 8793.6 |
| 65°   | 984.1  | 1037.8 | 1201.4 | 1603.9 | 2431.7 | 4015.4 | 7202.1 | 9930.0  | 12212.5 | 12198.0 | 9044.9 |
| 66°   | 804.0  | 837.6  | 963.0  | 1253.5 | 2006.4 | 3526.2 | 6705.6 | 9681.8  | 12265.6 | 12266.2 | 9016.0 |
| 67.5° | 643.0  | 658.0  | 714.2  | 897.4  | 1480.6 | 2795.0 | 5818.5 | 9134.2  | 12199.6 | 12217.7 | 8829.7 |
| 70°   | 532.1  | 539.8  | 557.3  | 601.7  | 808.1  | 1685.4 | 4130.0 | 7711.4  | 11536.5 | 11550.4 | 8102.6 |
| 72.5° | 477.4  | 482.0  | 488.7  | 494.9  | 570.2  | 941.8  | 2522.5 | 6168.9  | 10114.7 | 10132.8 | 6994.6 |
| 75°   | 432.5  | 435.0  | 434.0  | 434.5  | 478.4  | 600.2  | 1303.6 | 4605.8  | 8178.5  | 8142.4  | 5358.2 |
| 77.5° | 379.8  | 382.4  | 377.2  | 378.3  | 423.2  | 461.4  | 648.7  | 3224.3  | 5519.2  | 5264.3  | 3018.9 |
| 80°   | 321.0  | 323.1  | 321.0  | 324.6  | 368.5  | 348.3  | 377.2  | 1813.9  | 2440.4  | 2308.3  | 1073.4 |
| 82.5° | 242.5  | 251.3  | 257.5  | 272.0  | 303.4  | 247.7  | 252.4  | 706.5   | 743.1   | 707.5   | 329.2  |
| 85°   | 106.3  | 129.5  | 194.0  | 208.0  | 228.1  | 148.6  | 165.7  | 288.0   | 302.4   | 293.1   | 119.7  |
| 87.5° | 27.9   | 30.4   | 96.0   | 120.8  | 126.4  | 67.1   | 86.2   | 131.1   | 138.3   | 131.1   | 39.7   |
| 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°    | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 | 1388.2 |
| 2.5°  | 1403.7 | 1378.4 | 1333.0 | 1292.7 | 1262.3 | 1241.6 | 1221.0 | 1210.7 | 1204.5 | 1198.3 | 1199.3 |
| 5°    | 1448.6 | 1397.5 | 1319.6 | 1264.3 | 1233.4 | 1213.8 | 1203.4 | 1199.3 | 1196.7 | 1190.5 | 1190.5 |
| 7.5°  | 1516.2 | 1443.9 | 1336.6 | 1279.8 | 1255.6 | 1240.6 | 1234.4 | 1232.3 | 1229.2 | 1222.0 | 1223.1 |
| 10°   | 1601.3 | 1500.2 | 1372.2 | 1317.0 | 1294.8 | 1278.3 | 1269.5 | 1266.4 | 1260.7 | 1252.5 | 1253.5 |
| 12.5° | 1701.4 | 1569.8 | 1419.2 | 1361.4 | 1334.5 | 1312.3 | 1297.9 | 1289.1 | 1279.3 | 1268.5 | 1269.0 |
| 15°   | 1810.8 | 1645.7 | 1469.7 | 1401.1 | 1364.5 | 1333.5 | 1310.3 | 1295.3 | 1279.8 | 1266.4 | 1265.9 |
| 17.5° | 1921.8 | 1719.0 | 1508.4 | 1422.8 | 1373.2 | 1332.5 | 1301.0 | 1277.8 | 1258.7 | 1242.1 | 1240.6 |
| 20°   | 2041.5 | 1785.0 | 1530.1 | 1420.7 | 1356.7 | 1308.2 | 1266.4 | 1237.5 | 1216.3 | 1199.8 | 1197.3 |
| 22.5° | 2163.3 | 1847.0 | 1533.7 | 1399.5 | 1320.1 | 1260.7 | 1216.9 | 1184.9 | 1163.2 | 1146.2 | 1140.0 |
| 25°   | 2274.8 | 1895.0 | 1518.8 | 1358.8 | 1269.0 | 1205.0 | 1162.2 | 1129.6 | 1112.1 | 1092.0 | 1085.8 |
| 27.5° | 2376.4 | 1928.5 | 1488.8 | 1306.7 | 1211.7 | 1148.7 | 1108.5 | 1080.6 | 1061.5 | 1046.0 | 1040.9 |
| 30°   | 2467.8 | 1946.6 | 1439.8 | 1244.7 | 1152.9 | 1095.6 | 1061.5 | 1042.4 | 1025.9 | 1006.3 | 1002.7 |
| 32.5° | 2554.5 | 1946.6 | 1376.8 | 1177.1 | 1094.6 | 1048.6 | 1028.5 | 1016.6 | 998.1  | 979.0  | 973.8  |
| 35°   | 2641.2 | 1934.7 | 1302.5 | 1106.4 | 1040.9 | 1015.1 | 1014.1 | 1000.1 | 971.7  | 945.9  | 939.2  |
| 37.5° | 2732.5 | 1910.4 | 1218.9 | 1040.4 | 997.0  | 1000.1 | 1008.9 | 977.9  | 937.7  | 901.0  | 891.2  |
| 40°   | 2835.7 | 1876.9 | 1132.2 | 983.1  | 960.4  | 993.4  | 995.0  | 945.9  | 867.5  | 833.9  | 825.2  |
| 42.5° | 2957.0 | 1843.4 | 1051.7 | 932.5  | 931.5  | 973.3  | 968.6  | 876.8  | 829.8  | 812.8  | 808.1  |
| 45°   | 3116.5 | 1824.3 | 975.3  | 884.5  | 908.8  | 940.8  | 923.7  | 838.6  | 819.0  | 809.2  | 805.0  |
| 47.5° | 3367.8 | 1834.1 | 905.2  | 846.3  | 886.1  | 908.3  | 840.1  | 823.1  | 809.2  | 797.3  | 793.2  |
| 50°   | 3682.6 | 1828.4 | 848.4  | 820.0  | 860.3  | 874.2  | 802.5  | 803.0  | 795.8  | 782.3  | 776.2  |
| 52.5° | 3919.5 | 1784.0 | 811.8  | 805.0  | 837.6  | 813.8  | 778.7  | 783.4  | 779.8  | 760.2  | 753.4  |
| 55°   | 4148.1 | 1745.8 | 793.2  | 799.4  | 821.0  | 738.5  | 750.9  | 762.2  | 758.6  | 739.5  | 736.4  |
| 57.5° | 4432.4 | 1738.6 | 781.8  | 800.9  | 807.1  | 700.8  | 724.0  | 739.0  | 736.4  | 728.2  | 726.6  |
| 60°   | 4780.8 | 1740.7 | 771.5  | 803.5  | 791.6  | 672.9  | 698.7  | 717.8  | 719.4  | 717.8  | 716.8  |
| 62.5° | 4972.2 | 1684.4 | 745.7  | 796.3  | 764.3  | 648.7  | 672.4  | 700.3  | 700.8  | 703.9  | 703.4  |
| 65°   | 4809.7 | 1516.2 | 697.7  | 771.0  | 718.4  | 628.6  | 649.7  | 680.2  | 672.4  | 686.4  | 686.4  |
| 66°   | 4651.7 | 1419.2 | 674.0  | 754.5  | 698.7  | 620.8  | 642.5  | 669.8  | 660.0  | 679.1  | 679.1  |
| 67.5° | 4329.2 | 1255.6 | 631.1  | 719.4  | 670.9  | 610.0  | 634.2  | 652.8  | 639.4  | 667.8  | 665.7  |
| 70°   | 3739.9 | 971.2  | 545.0  | 639.9  | 624.9  | 594.0  | 622.9  | 618.8  | 599.1  | 642.5  | 634.2  |
| 72.5° | 3153.1 | 738.0  | 437.6  | 535.7  | 555.3  | 573.9  | 606.9  | 575.4  | 550.6  | 581.1  | 563.0  |
| 75°   | 2446.6 | 554.8  | 345.8  | 416.5  | 469.1  | 542.4  | 587.8  | 525.3  | 489.7  | 486.6  | 476.8  |
| 77.5° | 1322.7 | 380.9  | 274.0  | 317.9  | 372.6  | 503.2  | 574.9  | 471.7  | 418.0  | 405.6  | 397.9  |
| 80°   | 523.8  | 247.7  | 199.2  | 241.0  | 260.6  | 446.4  | 543.9  | 409.2  | 344.7  | 332.3  | 320.5  |
| 82.5° | 216.2  | 146.6  | 128.5  | 161.5  | 169.8  | 381.9  | 488.2  | 335.4  | 266.3  | 368.5  | 391.2  |
| 85°   | 92.9   | 80.5   | 76.4   | 83.6   | 96.0   | 267.8  | 388.6  | 256.0  | 287.4  | 256.5  | 203.8  |
| 87.5° | 27.9   | 34.1   | 32.5   | 32.0   | 35.1   | 64.0   | 206.9  | 142.4  | 211.1  | 80.0   | 59.9   |
| 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)