

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: P318015

Luminaire Tested: **GAN-SA1D-727-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6667 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

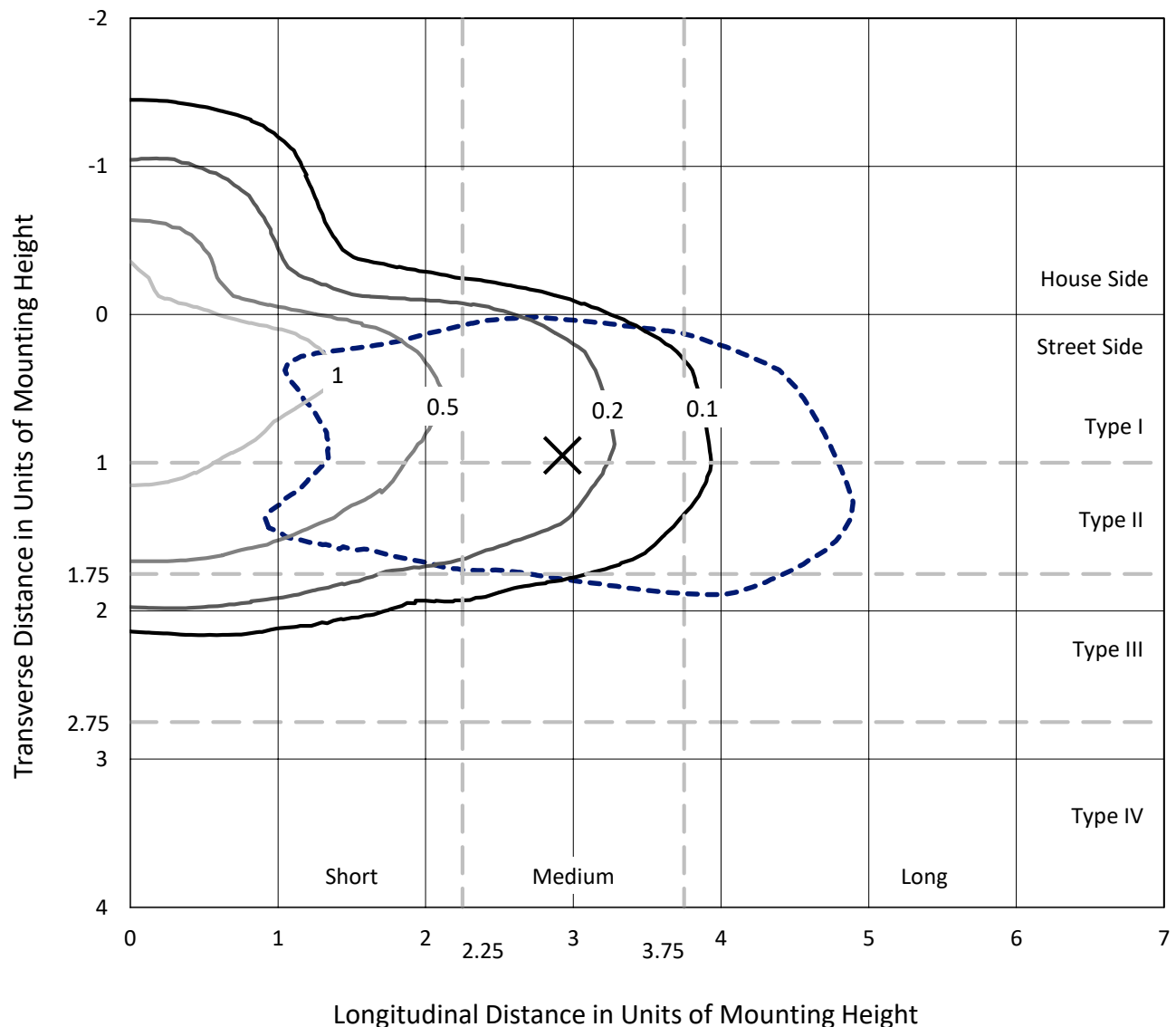
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

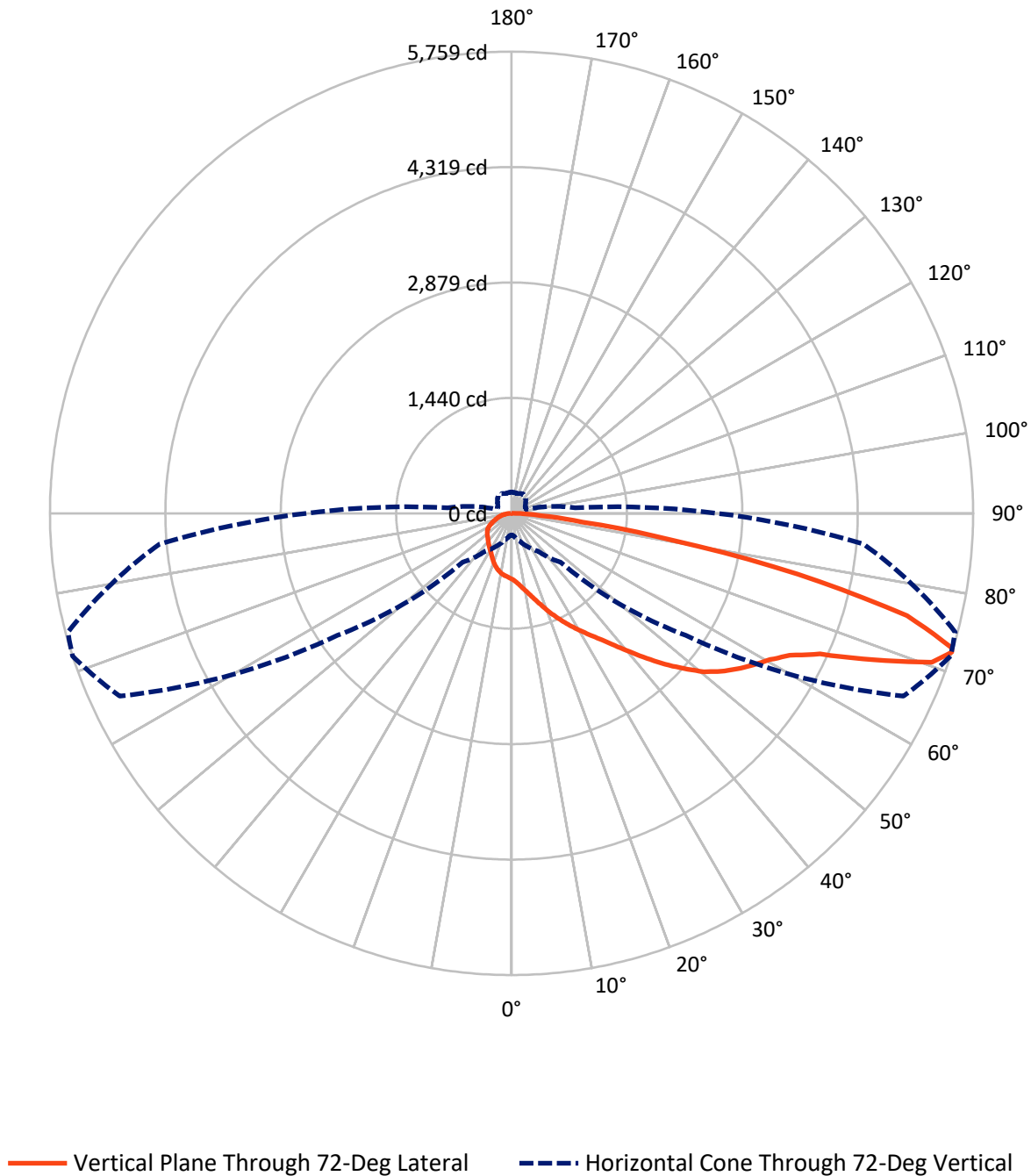
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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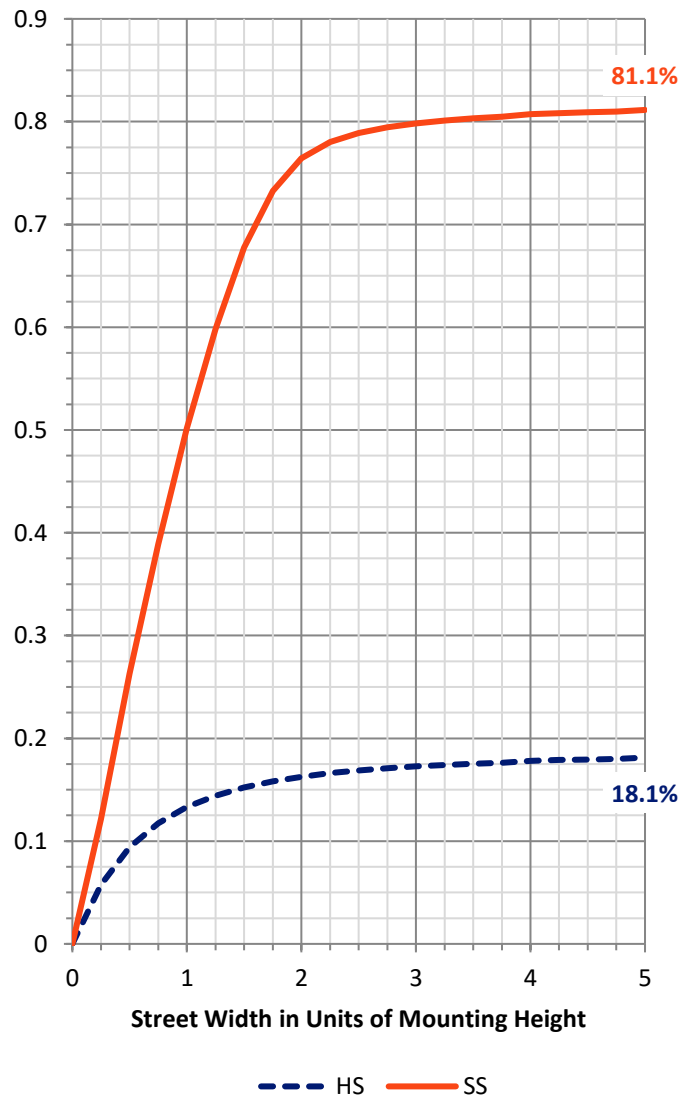
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1236.8   | 0.0    | 1236.8 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 5430.2   | 0.0    | 5430.2 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 6667.0   | 0.0    | 6667.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.2   | 1.2       |
| 10°-20°   | 265.6  | 4.0       |
| 20°-30°   | 465.4  | 7.0       |
| 30°-40°   | 690.0  | 10.4      |
| 40°-50°   | 1009.2 | 15.1      |
| 50°-60°   | 1388.7 | 20.8      |
| 60°-70°   | 1546.0 | 23.2      |
| 70°-80°   | 1047.6 | 15.7      |
| 80°-90°   | 172.2  | 2.6       |
| 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°    | 6667.0 | 100.0     |
| 0°-180°   | 6667.0 | 100.0     |

**Coefficient of Utilization**



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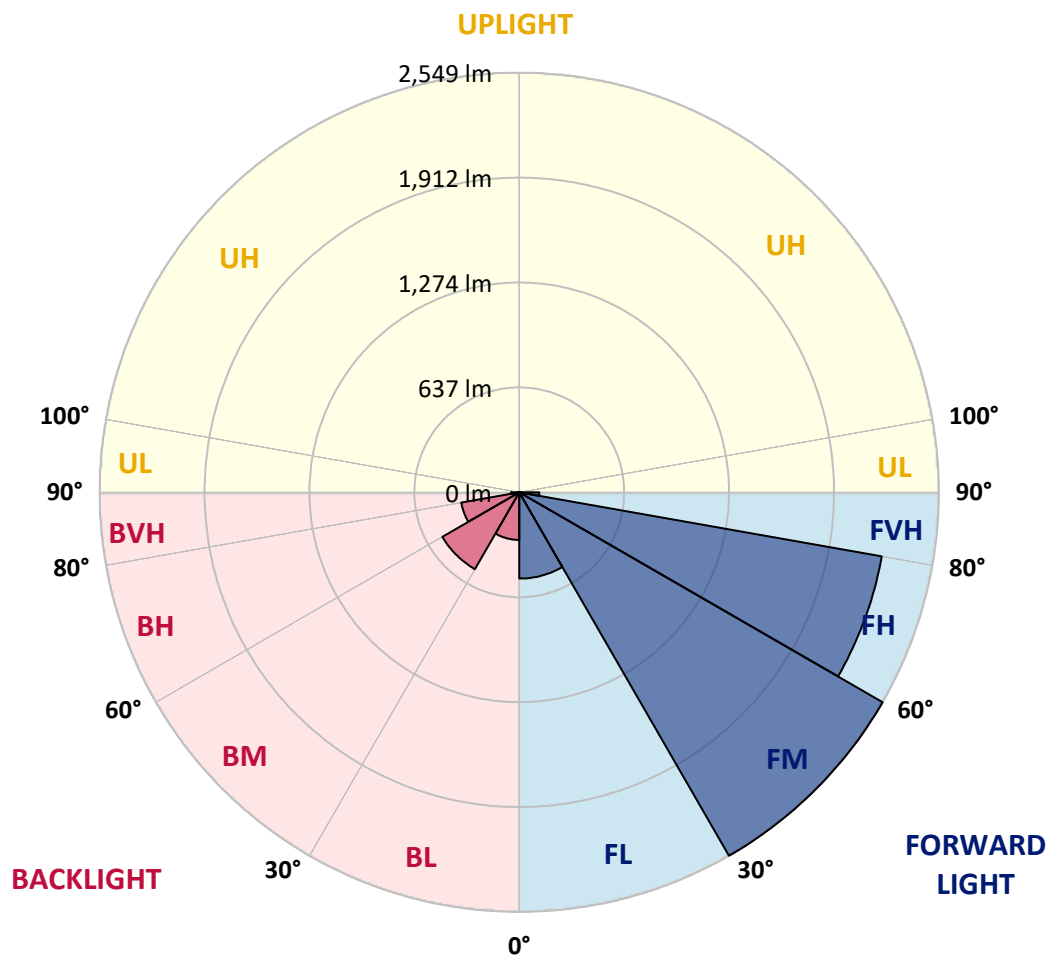
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 524.1  | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 2548.9 | 38.2      |                         |      |         |
| FH   | (60°-80°)   | 2235.8 | 33.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 121.5  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 289.1  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 539.1  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 357.8  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 50.7   | 0.8       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  | 820.2  |
| 2.5°  | 906.1  | 904.7  | 899.9  | 899.9  | 890.7  | 882.9  | 868.2  | 858.3  | 846.6  | 842.5  | 828.7  |
| 5°    | 993.8  | 994.2  | 988.3  | 984.1  | 970.6  | 954.0  | 929.0  | 906.3  | 883.6  | 874.4  | 846.2  |
| 7.5°  | 1067.5 | 1066.5 | 1064.9 | 1061.5 | 1048.9 | 1031.9 | 998.1  | 964.4  | 930.9  | 917.1  | 868.4  |
| 10°   | 1114.7 | 1116.8 | 1118.2 | 1119.8 | 1114.5 | 1102.3 | 1070.4 | 1029.3 | 985.5  | 966.7  | 895.1  |
| 12.5° | 1138.6 | 1142.3 | 1148.7 | 1159.7 | 1168.5 | 1167.1 | 1143.9 | 1100.3 | 1048.2 | 1024.5 | 928.3  |
| 15°   | 1152.6 | 1157.4 | 1167.5 | 1187.3 | 1211.8 | 1225.8 | 1219.6 | 1180.2 | 1122.1 | 1092.9 | 969.0  |
| 17.5° | 1161.3 | 1165.2 | 1180.9 | 1207.3 | 1243.8 | 1280.9 | 1297.2 | 1264.2 | 1205.6 | 1172.4 | 1015.6 |
| 20°   | 1167.3 | 1170.3 | 1189.8 | 1220.8 | 1268.1 | 1327.3 | 1372.8 | 1364.5 | 1297.7 | 1254.5 | 1064.2 |
| 22.5° | 1180.6 | 1183.1 | 1201.7 | 1233.0 | 1285.3 | 1361.7 | 1445.5 | 1457.9 | 1394.8 | 1345.9 | 1116.3 |
| 25°   | 1217.8 | 1217.8 | 1233.4 | 1255.2 | 1304.4 | 1391.6 | 1507.1 | 1561.9 | 1494.0 | 1437.0 | 1164.6 |
| 27.5° | 1288.7 | 1288.1 | 1293.8 | 1301.4 | 1338.6 | 1421.9 | 1561.9 | 1653.7 | 1596.8 | 1534.6 | 1211.4 |
| 30°   | 1372.8 | 1377.4 | 1378.0 | 1374.4 | 1391.8 | 1459.8 | 1612.7 | 1750.6 | 1700.3 | 1633.3 | 1259.4 |
| 32.5° | 1480.9 | 1483.9 | 1480.4 | 1468.3 | 1465.7 | 1513.5 | 1662.5 | 1852.1 | 1812.4 | 1736.4 | 1303.2 |
| 35°   | 1618.2 | 1612.4 | 1601.6 | 1576.8 | 1553.2 | 1585.3 | 1719.4 | 1953.5 | 1938.2 | 1861.0 | 1363.6 |
| 37.5° | 1765.3 | 1765.5 | 1752.2 | 1696.0 | 1663.4 | 1677.2 | 1797.9 | 2068.6 | 2090.4 | 2009.3 | 1440.9 |
| 40°   | 1883.3 | 1889.5 | 1897.8 | 1823.8 | 1781.6 | 1800.7 | 1897.8 | 2201.9 | 2270.3 | 2185.2 | 1541.7 |
| 42.5° | 1965.7 | 1972.8 | 1996.2 | 1949.9 | 1906.0 | 1941.4 | 2015.3 | 2344.3 | 2472.4 | 2388.1 | 1659.7 |
| 45°   | 2052.9 | 2056.9 | 2073.4 | 2053.4 | 2025.4 | 2105.1 | 2147.8 | 2491.6 | 2686.1 | 2604.3 | 1791.7 |
| 47.5° | 2144.8 | 2148.9 | 2165.9 | 2152.6 | 2137.9 | 2257.9 | 2286.0 | 2630.5 | 2890.8 | 2841.9 | 1932.7 |
| 50°   | 2258.2 | 2260.9 | 2277.0 | 2252.9 | 2257.5 | 2373.2 | 2409.5 | 2757.9 | 3105.5 | 3055.4 | 2074.1 |
| 52.5° | 2412.9 | 2413.6 | 2435.9 | 2414.0 | 2392.5 | 2457.7 | 2515.7 | 2878.0 | 3273.7 | 3250.1 | 2215.5 |
| 55°   | 2534.1 | 2541.4 | 2614.4 | 2609.9 | 2597.5 | 2534.3 | 2604.6 | 2992.3 | 3423.9 | 3435.1 | 2365.6 |
| 57.5° | 2456.7 | 2485.4 | 2633.3 | 2737.5 | 2839.0 | 2725.1 | 2724.6 | 3121.1 | 3563.4 | 3616.7 | 2530.7 |
| 60°   | 2151.7 | 2190.7 | 2408.5 | 2639.7 | 2957.2 | 3057.0 | 2973.9 | 3278.3 | 3704.4 | 3796.7 | 2737.5 |
| 62.5° | 1536.7 | 1600.9 | 1896.2 | 2265.3 | 2795.1 | 3277.0 | 3481.3 | 3527.9 | 3896.1 | 4005.1 | 3006.3 |
| 65°   | 776.8  | 825.5  | 1073.0 | 1517.6 | 2233.2 | 3133.3 | 4032.7 | 4074.2 | 4229.2 | 4326.0 | 3420.2 |
| 67.5° | 472.0  | 490.3  | 611.1  | 844.1  | 1369.1 | 2440.7 | 4212.6 | 4984.9 | 4873.8 | 4925.2 | 4010.4 |
| 70°   | 347.8  | 361.3  | 436.6  | 560.6  | 787.4  | 1432.2 | 3660.3 | 5634.8 | 5561.8 | 5556.0 | 4446.6 |
| 72°   | 270.9  | 280.8  | 347.3  | 452.9  | 575.7  | 859.2  | 2653.0 | 5394.9 | 5758.7 | 5729.8 | 4406.6 |
| 72.5° | 256.9  | 265.6  | 326.2  | 426.3  | 544.1  | 778.9  | 2385.3 | 5233.0 | 5744.5 | 5731.4 | 4355.0 |
| 75°   | 202.2  | 208.4  | 241.5  | 329.6  | 425.8  | 441.9  | 1307.1 | 4055.4 | 5096.0 | 5307.9 | 3917.0 |
| 77.5° | 167.3  | 168.3  | 185.7  | 239.9  | 331.9  | 312.4  | 642.1  | 2813.7 | 3649.1 | 3882.1 | 2774.7 |
| 80°   | 136.4  | 137.5  | 145.8  | 168.3  | 251.1  | 231.2  | 304.9  | 1617.9 | 2043.1 | 2045.6 | 1319.5 |
| 82.5° | 108.6  | 108.8  | 118.0  | 123.0  | 180.4  | 165.3  | 174.7  | 759.6  | 892.8  | 858.8  | 474.3  |
| 85°   | 76.4   | 74.8   | 115.2  | 101.0  | 118.0  | 106.1  | 96.4   | 300.7  | 369.1  | 353.1  | 148.5  |
| 87.5° | 25.5   | 26.4   | 51.2   | 65.4   | 68.9   | 60.1   | 42.9   | 115.2  | 139.3  | 138.2  | 47.1   |
| 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°    | 820.2  | 820.2  | 820.2 | 820.2 | 820.2 | 820.2 | 820.2 | 820.2 | 820.2 | 820.2 | 820.2 |
| 2.5°  | 824.3  | 817.0  | 806.2 | 794.3 | 784.9 | 775.2 | 768.1 | 764.4 | 760.3 | 756.9 | 761.0 |
| 5°    | 833.1  | 819.3  | 796.3 | 773.8 | 757.3 | 742.6 | 732.1 | 726.6 | 721.5 | 718.1 | 718.5 |
| 7.5°  | 847.3  | 825.0  | 786.5 | 753.6 | 730.7 | 714.8 | 704.1 | 700.4 | 697.2 | 696.3 | 697.4 |
| 10°   | 862.5  | 829.6  | 773.4 | 729.8 | 703.6 | 690.5 | 685.7 | 688.2 | 690.5 | 692.6 | 694.9 |
| 12.5° | 879.7  | 833.8  | 754.3 | 701.8 | 679.5 | 674.4 | 679.3 | 690.3 | 698.3 | 703.1 | 706.1 |
| 15°   | 902.2  | 837.4  | 732.3 | 673.8 | 658.8 | 664.6 | 680.9 | 699.9 | 713.9 | 722.9 | 724.3 |
| 17.5° | 922.8  | 837.2  | 704.1 | 645.5 | 642.1 | 658.8 | 683.4 | 710.3 | 729.1 | 741.7 | 744.2 |
| 20°   | 944.2  | 831.0  | 671.2 | 618.0 | 625.1 | 652.6 | 684.5 | 716.9 | 739.6 | 754.3 | 757.8 |
| 22.5° | 964.1  | 820.2  | 635.2 | 593.0 | 610.9 | 644.4 | 680.2 | 713.0 | 735.7 | 747.7 | 751.3 |
| 25°   | 977.7  | 801.4  | 598.7 | 571.8 | 598.2 | 634.3 | 666.0 | 692.4 | 709.3 | 715.3 | 716.2 |
| 27.5° | 984.6  | 776.8  | 564.3 | 553.5 | 585.1 | 617.7 | 639.6 | 652.6 | 657.5 | 657.0 | 656.1 |
| 30°   | 985.5  | 744.5  | 534.6 | 538.5 | 570.0 | 593.4 | 603.7 | 601.2 | 595.0 | 584.5 | 585.4 |
| 32.5° | 982.5  | 708.0  | 509.9 | 524.3 | 550.7 | 563.8 | 564.3 | 552.1 | 535.6 | 518.8 | 514.2 |
| 35°   | 983.4  | 672.1  | 488.0 | 508.2 | 527.3 | 533.0 | 527.8 | 509.9 | 487.4 | 465.8 | 461.2 |
| 37.5° | 993.5  | 640.9  | 469.2 | 489.6 | 501.4 | 502.7 | 495.2 | 476.3 | 459.8 | 438.7 | 436.9 |
| 40°   | 1017.6 | 618.7  | 451.3 | 468.8 | 475.4 | 476.1 | 465.3 | 452.0 | 453.4 | 442.1 | 441.9 |
| 42.5° | 1061.0 | 609.0  | 435.5 | 447.0 | 451.1 | 452.5 | 444.2 | 435.7 | 447.6 | 440.3 | 437.8 |
| 45°   | 1117.0 | 611.3  | 422.2 | 425.6 | 433.2 | 439.6 | 434.6 | 424.2 | 428.8 | 396.9 | 386.3 |
| 47.5° | 1181.8 | 626.0  | 411.6 | 407.2 | 420.3 | 432.5 | 424.7 | 409.1 | 392.8 | 361.1 | 355.1 |
| 50°   | 1257.5 | 648.7  | 402.0 | 389.1 | 406.3 | 422.8 | 415.0 | 392.8 | 368.2 | 352.8 | 350.8 |
| 52.5° | 1336.5 | 676.5  | 392.3 | 369.1 | 388.6 | 415.5 | 411.6 | 389.1 | 358.8 | 343.7 | 340.9 |
| 55°   | 1426.0 | 704.5  | 380.1 | 345.9 | 369.6 | 412.1 | 410.0 | 375.8 | 351.7 | 343.2 | 341.1 |
| 57.5° | 1537.4 | 736.4  | 364.1 | 321.8 | 351.7 | 399.7 | 393.2 | 367.8 | 344.3 | 337.9 | 337.2 |
| 60°   | 1682.4 | 783.5  | 340.9 | 296.1 | 329.9 | 380.6 | 379.2 | 356.0 | 332.6 | 328.0 | 327.1 |
| 62.5° | 1900.1 | 861.3  | 309.0 | 270.4 | 305.5 | 348.2 | 360.9 | 340.2 | 320.2 | 320.0 | 320.5 |
| 65°   | 2237.5 | 978.4  | 274.3 | 247.9 | 281.0 | 320.9 | 339.5 | 323.9 | 307.6 | 312.2 | 312.9 |
| 67.5° | 2628.7 | 1075.5 | 240.3 | 225.9 | 256.0 | 295.0 | 320.2 | 307.6 | 290.9 | 302.8 | 303.0 |
| 70°   | 2758.8 | 988.7  | 210.5 | 204.1 | 230.0 | 270.0 | 299.3 | 289.7 | 272.7 | 284.7 | 283.5 |
| 72°   | 2567.4 | 798.2  | 191.2 | 187.5 | 210.5 | 249.3 | 280.8 | 272.9 | 256.2 | 264.2 | 261.2 |
| 72.5° | 2507.0 | 761.0  | 186.4 | 183.4 | 205.2 | 244.0 | 275.9 | 268.8 | 252.1 | 258.9 | 256.2 |
| 75°   | 2236.4 | 660.9  | 160.2 | 160.9 | 179.1 | 218.3 | 248.8 | 246.5 | 229.3 | 230.0 | 229.1 |
| 77.5° | 1622.1 | 484.6  | 135.0 | 139.6 | 152.4 | 191.9 | 221.5 | 220.1 | 201.3 | 197.9 | 197.2 |
| 80°   | 752.7  | 247.2  | 110.0 | 112.0 | 125.3 | 160.5 | 188.9 | 187.1 | 171.9 | 167.6 | 165.1 |
| 82.5° | 257.8  | 117.5  | 82.6  | 84.0  | 97.1  | 129.2 | 163.9 | 162.8 | 150.1 | 141.6 | 136.4 |
| 85°   | 92.1   | 58.5   | 57.8  | 56.5  | 69.3  | 101.7 | 142.8 | 136.6 | 118.0 | 100.5 | 100.1 |
| 87.5° | 29.8   | 25.0   | 29.8  | 29.6  | 40.4  | 68.9  | 103.8 | 88.4  | 85.6  | 71.2  | 69.8  |
| 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)