

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: P522656

Luminaire Tested: **GLAN-SA2A-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6765 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



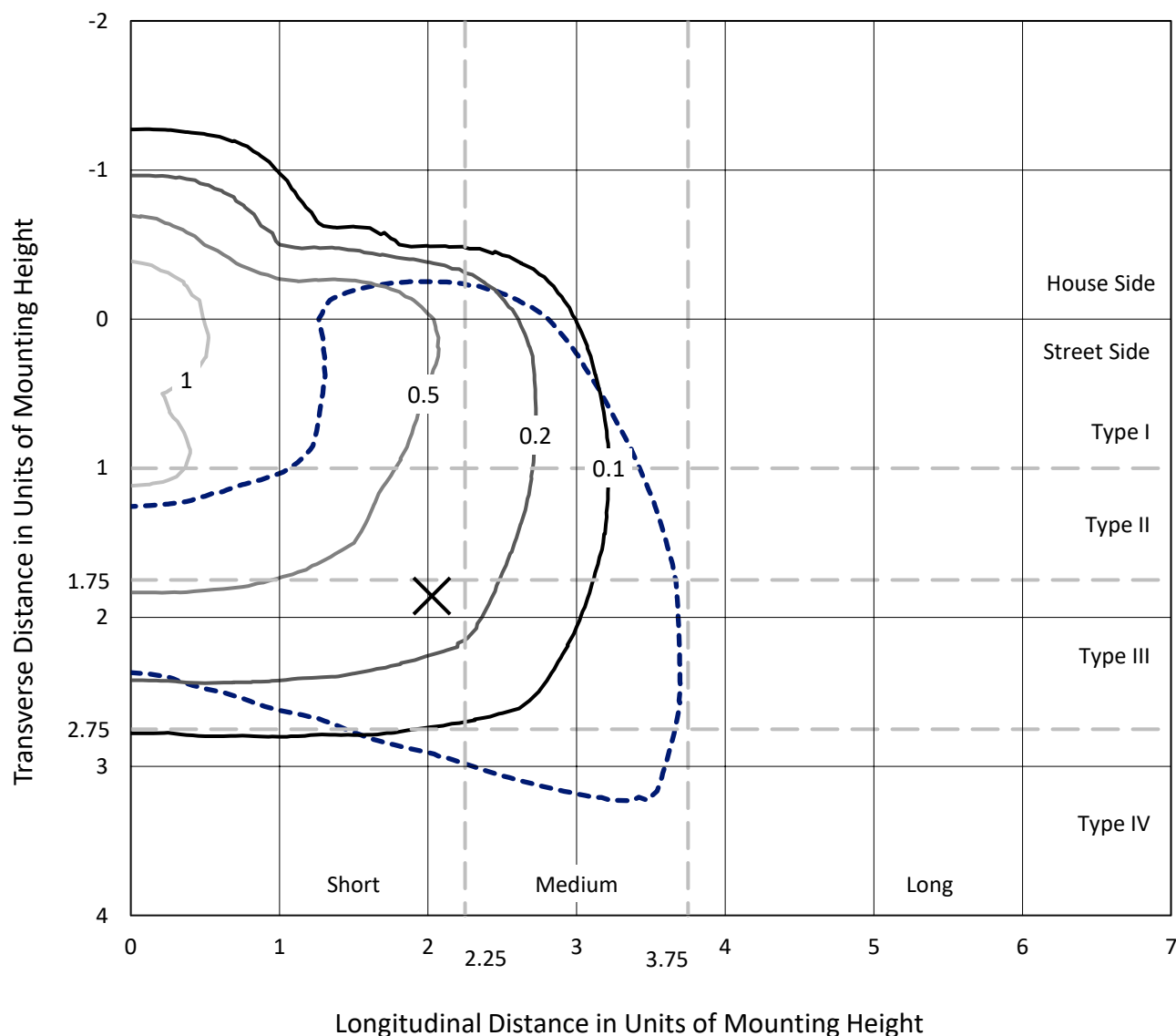
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



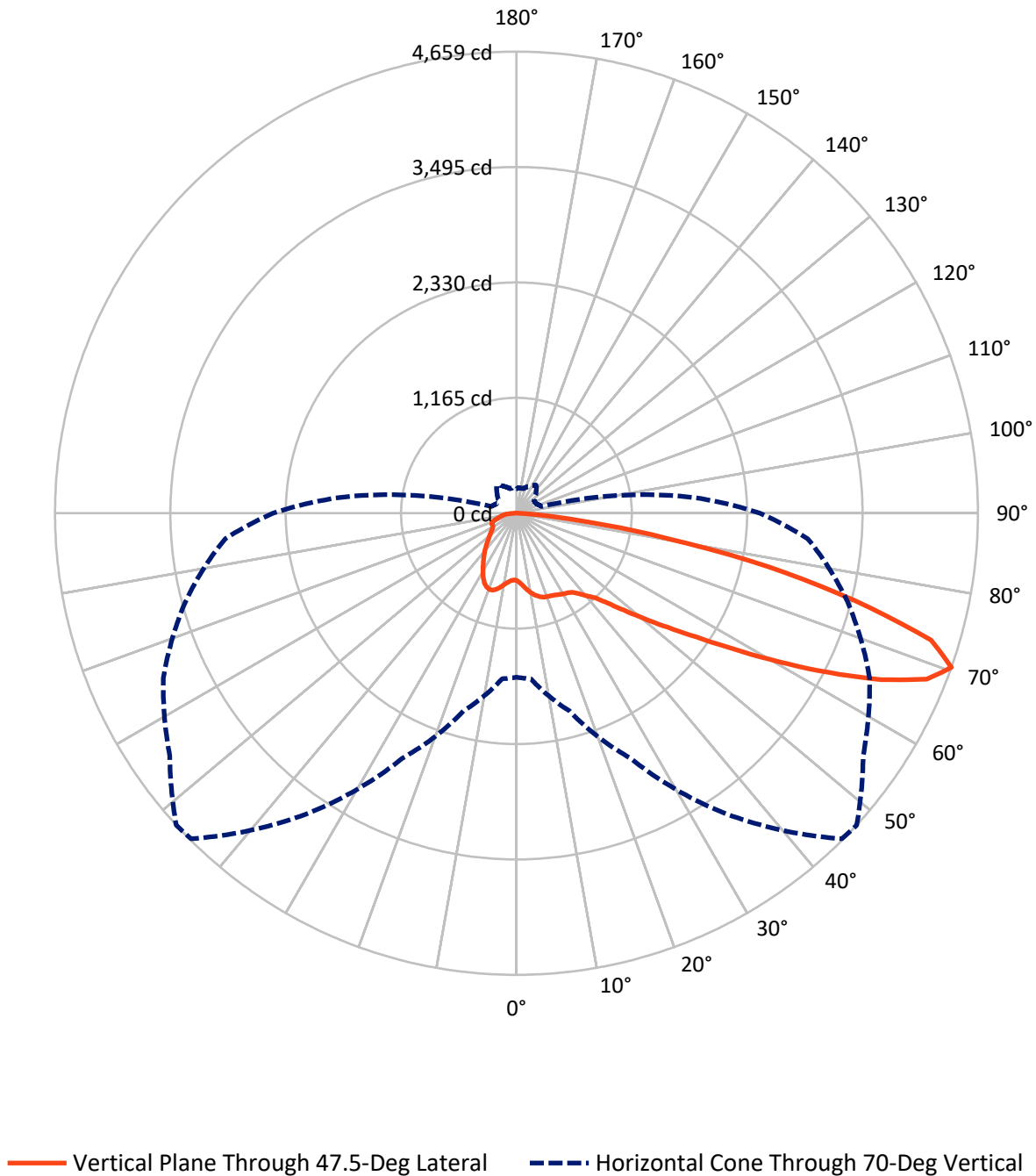
Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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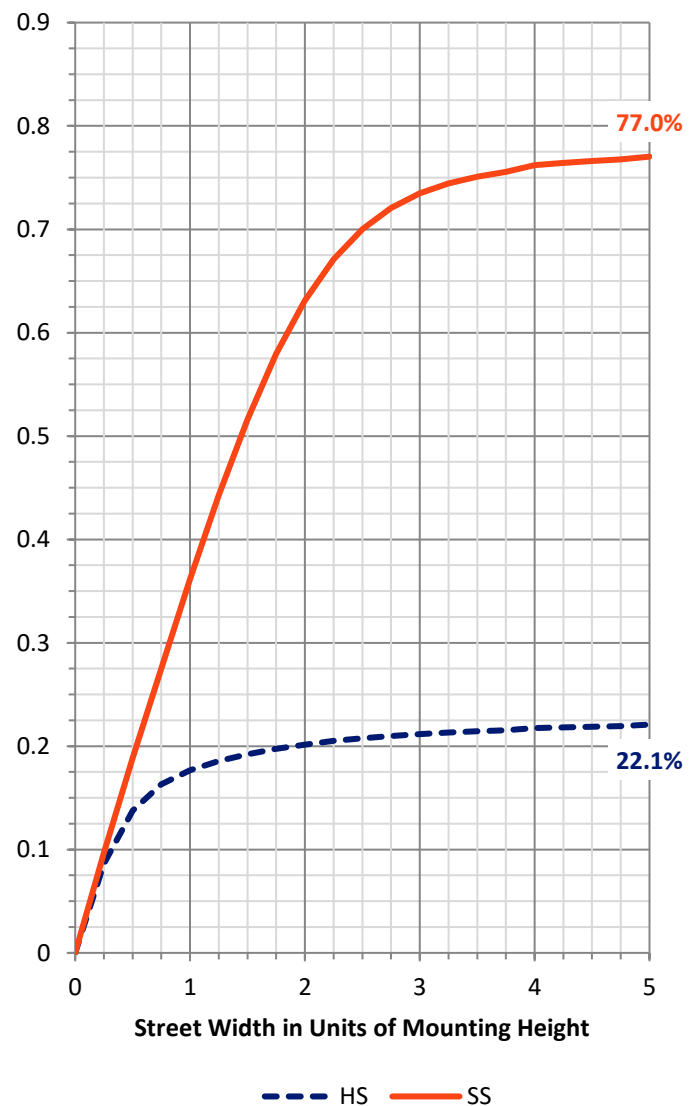
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1531.7   | 0.0    | 1531.7 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 5233.3   | 0.0    | 5233.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 6765.0   | 0.0    | 6765.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.0   | 1.0       |
| 10°-20°   | 234.0  | 3.5       |
| 20°-30°   | 389.2  | 5.8       |
| 30°-40°   | 551.6  | 8.2       |
| 40°-50°   | 814.3  | 12.0      |
| 50°-60°   | 1410.4 | 20.8      |
| 60°-70°   | 1992.2 | 29.4      |
| 70°-80°   | 1145.2 | 16.9      |
| 80°-90°   | 158.0  | 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°    | 6765.0 | 100.0     |
| 0°-180°   | 6765.0 | 100.0     |

**Coefficient of Utilization**



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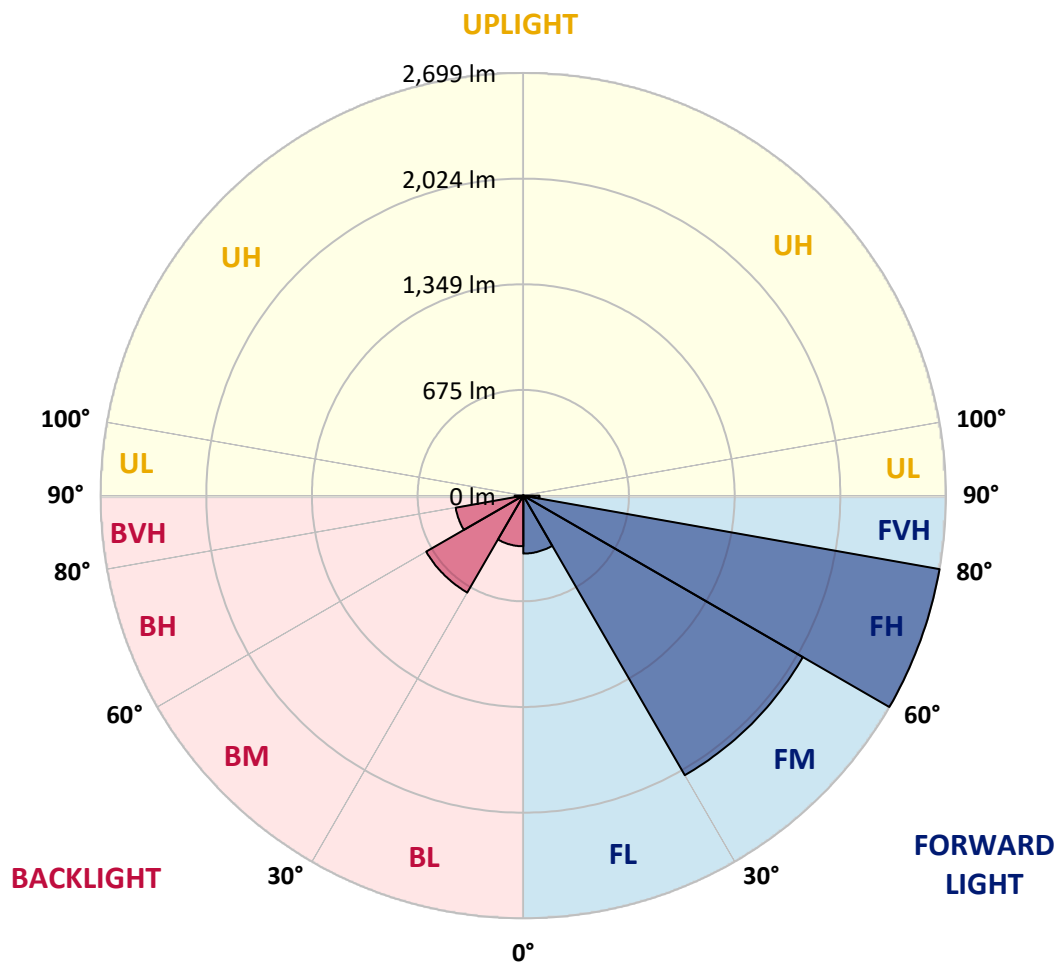
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 369.9  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 2061.2 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 2699.0 | 39.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 103.2  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 323.3  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 715.1  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 438.5  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 54.8   | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47.5°  | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  |
| 2.5°  | 722.9  | 720.4  | 720.0  | 714.6  | 711.7  | 706.3  | 704.1  | 699.0  | 692.9  | 686.7  | 680.9  |
| 5°    | 779.8  | 779.8  | 777.2  | 769.6  | 757.7  | 745.4  | 739.9  | 730.2  | 712.8  | 698.7  | 686.7  |
| 7.5°  | 838.0  | 838.8  | 833.7  | 822.5  | 805.5  | 785.6  | 780.5  | 766.0  | 741.4  | 720.8  | 703.0  |
| 10°   | 888.4  | 888.4  | 881.5  | 866.3  | 844.9  | 823.2  | 818.1  | 801.8  | 774.3  | 748.6  | 725.5  |
| 12.5° | 926.7  | 926.7  | 917.7  | 897.8  | 874.6  | 855.1  | 849.3  | 833.7  | 808.0  | 779.4  | 750.1  |
| 15°   | 951.7  | 949.9  | 939.8  | 917.3  | 894.9  | 877.9  | 873.9  | 860.9  | 837.3  | 808.4  | 775.4  |
| 17.5° | 952.8  | 952.1  | 942.3  | 923.5  | 903.9  | 892.3  | 889.8  | 881.1  | 862.7  | 835.1  | 800.4  |
| 20°   | 931.8  | 933.3  | 926.7  | 913.3  | 903.9  | 898.9  | 897.8  | 894.9  | 881.8  | 856.1  | 821.4  |
| 22.5° | 909.4  | 911.9  | 905.7  | 898.5  | 897.8  | 902.8  | 903.6  | 904.3  | 896.0  | 871.0  | 839.1  |
| 25°   | 903.9  | 905.7  | 899.6  | 893.1  | 897.1  | 910.4  | 913.3  | 916.2  | 909.7  | 888.7  | 860.1  |
| 27.5° | 931.4  | 930.0  | 918.0  | 903.9  | 906.5  | 924.6  | 928.5  | 931.8  | 928.5  | 910.4  | 886.2  |
| 30°   | 1009.3 | 1004.6 | 980.7  | 939.4  | 926.4  | 939.0  | 943.0  | 952.1  | 952.1  | 938.7  | 914.4  |
| 32.5° | 1139.6 | 1130.5 | 1086.7 | 1005.7 | 960.4  | 952.8  | 956.8  | 971.6  | 979.2  | 968.7  | 942.3  |
| 35°   | 1297.8 | 1288.4 | 1225.8 | 1116.8 | 1022.7 | 980.3  | 979.2  | 995.9  | 1016.2 | 992.6  | 958.2  |
| 37.5° | 1456.7 | 1446.9 | 1371.6 | 1249.3 | 1113.5 | 1038.2 | 1031.7 | 1037.5 | 1046.2 | 1003.1 | 980.3  |
| 40°   | 1615.6 | 1604.1 | 1538.2 | 1397.3 | 1224.7 | 1115.0 | 1098.0 | 1071.9 | 1068.3 | 1037.5 | 1023.0 |
| 42.5° | 1773.1 | 1762.6 | 1729.3 | 1563.5 | 1357.9 | 1189.9 | 1163.9 | 1119.0 | 1132.7 | 1114.3 | 1101.6 |
| 45°   | 1932.0 | 1932.8 | 1897.3 | 1749.9 | 1518.6 | 1328.2 | 1293.1 | 1222.9 | 1255.4 | 1248.6 | 1255.8 |
| 47.5° | 2072.9 | 2071.0 | 2058.4 | 1930.9 | 1718.1 | 1506.3 | 1461.1 | 1379.6 | 1435.4 | 1460.7 | 1516.1 |
| 50°   | 2209.3 | 2208.2 | 2209.0 | 2136.2 | 1949.8 | 1718.1 | 1668.1 | 1582.7 | 1708.3 | 1796.3 | 1895.5 |
| 52.5° | 2404.8 | 2411.0 | 2367.2 | 2348.0 | 2231.4 | 1968.2 | 1913.2 | 1824.9 | 2030.9 | 2169.5 | 2363.2 |
| 55°   | 2601.0 | 2596.0 | 2561.6 | 2581.5 | 2526.1 | 2264.4 | 2206.8 | 2136.6 | 2390.0 | 2541.6 | 2832.7 |
| 57.5° | 2716.5 | 2718.3 | 2753.4 | 2850.8 | 2889.9 | 2633.6 | 2581.5 | 2527.2 | 2793.6 | 2901.1 | 3250.5 |
| 60°   | 2820.4 | 2828.7 | 2929.7 | 3113.6 | 3219.7 | 3087.2 | 3040.9 | 2988.0 | 3163.9 | 3206.7 | 3613.2 |
| 62.5° | 2853.0 | 2878.7 | 3055.0 | 3330.1 | 3541.1 | 3599.1 | 3541.5 | 3424.9 | 3516.5 | 3499.9 | 3859.0 |
| 65°   | 2690.4 | 2725.5 | 3041.6 | 3411.2 | 3828.2 | 4084.9 | 4048.3 | 3831.8 | 3817.0 | 3716.7 | 3899.2 |
| 67.5° | 2262.5 | 2297.7 | 2703.5 | 3241.0 | 3947.0 | 4505.5 | 4469.0 | 4128.7 | 3999.5 | 3737.0 | 3595.1 |
| 70°   | 1655.5 | 1677.5 | 2065.6 | 2728.8 | 3708.4 | 4646.7 | 4659.4 | 4273.5 | 3934.3 | 3461.5 | 2951.8 |
| 72.5° | 953.9  | 1002.8 | 1274.6 | 1919.7 | 3029.6 | 4289.8 | 4377.7 | 3972.3 | 3522.3 | 2887.7 | 2063.8 |
| 75°   | 410.2  | 411.2  | 589.3  | 1058.9 | 2051.9 | 3448.1 | 3533.2 | 3292.8 | 2766.1 | 1996.8 | 1101.9 |
| 77.5° | 195.1  | 198.7  | 259.2  | 472.8  | 1129.5 | 2382.4 | 2611.9 | 2326.3 | 1769.1 | 959.3  | 416.3  |
| 80°   | 126.7  | 129.2  | 158.6  | 234.6  | 553.9  | 1381.4 | 1541.4 | 1342.0 | 780.5  | 342.8  | 179.6  |
| 82.5° | 76.7   | 77.5   | 106.1  | 143.4  | 304.8  | 625.5  | 737.4  | 582.5  | 333.0  | 205.3  | 105.7  |
| 85°   | 46.7   | 47.1   | 64.4   | 88.7   | 185.0  | 216.1  | 221.9  | 220.1  | 195.5  | 134.3  | 56.5   |
| 87.5° | 22.4   | 23.2   | 33.3   | 42.0   | 72.8   | 67.0   | 63.4   | 73.5   | 92.3   | 72.4   | 24.3   |
| 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°    | 679.1  | 679.1  | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 |
| 2.5°  | 678.4  | 677.3  | 674.8 | 673.7 | 673.0 | 673.3 | 673.0 | 673.0 | 673.3 | 673.3 | 673.3 |
| 5°    | 681.7  | 679.8  | 675.9 | 675.9 | 678.0 | 683.1 | 687.8 | 691.4 | 695.4 | 695.1 | 695.1 |
| 7.5°  | 695.8  | 692.5  | 687.8 | 689.3 | 694.7 | 702.7 | 711.0 | 718.9 | 726.9 | 727.6 | 727.3 |
| 10°   | 716.4  | 713.2  | 708.1 | 709.9 | 718.6 | 730.5 | 741.0 | 752.6 | 761.3 | 763.8 | 763.1 |
| 12.5° | 739.9  | 733.4  | 729.1 | 734.1 | 747.9 | 763.8 | 774.0 | 782.7 | 788.8 | 792.4 | 791.0 |
| 15°   | 763.8  | 757.7  | 752.6 | 763.1 | 779.8 | 794.6 | 799.7 | 801.1 | 802.2 | 805.8 | 805.1 |
| 17.5° | 787.0  | 778.7  | 776.9 | 790.6 | 806.6 | 813.1 | 810.2 | 804.0 | 799.3 | 802.2 | 801.8 |
| 20°   | 807.6  | 801.1  | 800.4 | 814.2 | 820.3 | 814.2 | 801.8 | 791.0 | 782.7 | 783.4 | 783.0 |
| 22.5° | 827.2  | 822.1  | 822.8 | 828.6 | 818.9 | 797.9 | 777.6 | 762.7 | 753.7 | 755.5 | 756.6 |
| 25°   | 848.9  | 843.8  | 845.6 | 836.2 | 804.0 | 767.5 | 738.1 | 725.5 | 721.8 | 725.5 | 728.0 |
| 27.5° | 877.1  | 873.9  | 872.8 | 836.6 | 777.6 | 722.6 | 689.3 | 684.6 | 687.8 | 695.8 | 699.8 |
| 30°   | 907.6  | 907.6  | 901.8 | 830.4 | 741.4 | 668.6 | 639.7 | 640.4 | 651.6 | 662.8 | 666.8 |
| 32.5° | 936.9  | 943.0  | 924.9 | 813.8 | 694.7 | 616.1 | 594.1 | 594.8 | 604.6 | 618.3 | 621.9 |
| 35°   | 961.1  | 978.9  | 944.8 | 783.4 | 639.7 | 572.0 | 555.3 | 545.5 | 545.9 | 556.4 | 559.3 |
| 37.5° | 994.4  | 1027.4 | 956.4 | 738.1 | 581.0 | 534.3 | 515.5 | 498.5 | 487.3 | 482.9 | 482.9 |
| 40°   | 1052.4 | 1100.9 | 959.3 | 671.2 | 525.6 | 498.5 | 471.7 | 451.4 | 429.7 | 410.2 | 406.5 |
| 42.5° | 1150.5 | 1211.6 | 953.5 | 594.1 | 475.7 | 459.0 | 433.0 | 408.0 | 377.9 | 350.4 | 348.3 |
| 45°   | 1324.2 | 1355.7 | 938.0 | 514.0 | 431.1 | 421.0 | 395.7 | 368.5 | 336.7 | 312.0 | 310.2 |
| 47.5° | 1602.6 | 1558.1 | 917.3 | 443.1 | 390.6 | 387.7 | 368.2 | 336.7 | 304.8 | 287.8 | 286.0 |
| 50°   | 2009.1 | 1876.6 | 914.4 | 391.7 | 358.0 | 359.5 | 343.5 | 314.6 | 286.7 | 272.6 | 270.4 |
| 52.5° | 2498.6 | 2261.5 | 933.6 | 355.5 | 329.4 | 334.9 | 326.9 | 300.1 | 275.5 | 263.5 | 261.4 |
| 55°   | 2973.5 | 2607.5 | 945.2 | 327.3 | 302.6 | 312.8 | 313.9 | 291.4 | 269.0 | 257.0 | 255.6 |
| 57.5° | 3359.1 | 2868.2 | 893.8 | 301.6 | 279.5 | 295.0 | 303.0 | 286.3 | 265.7 | 256.7 | 255.2 |
| 60°   | 3627.3 | 2991.3 | 747.5 | 278.7 | 262.5 | 280.9 | 299.0 | 286.7 | 273.7 | 274.8 | 275.5 |
| 62.5° | 3712.7 | 2936.6 | 560.7 | 261.7 | 250.9 | 276.2 | 305.5 | 301.6 | 288.2 | 296.5 | 297.9 |
| 65°   | 3571.2 | 2710.7 | 406.5 | 248.3 | 240.7 | 279.5 | 325.1 | 312.4 | 283.1 | 289.2 | 289.2 |
| 67.5° | 3097.3 | 2335.3 | 316.4 | 236.0 | 229.2 | 285.6 | 344.6 | 311.3 | 271.1 | 278.4 | 271.9 |
| 70°   | 2456.9 | 1806.4 | 263.5 | 222.3 | 216.8 | 276.6 | 346.4 | 300.1 | 257.0 | 258.5 | 246.2 |
| 72.5° | 1630.5 | 1187.7 | 226.6 | 209.2 | 198.0 | 248.7 | 331.6 | 285.6 | 243.3 | 234.9 | 222.6 |
| 75°   | 798.9  | 592.2  | 197.7 | 192.9 | 173.4 | 216.5 | 311.3 | 271.9 | 228.4 | 215.4 | 208.5 |
| 77.5° | 309.5  | 252.0  | 168.7 | 172.3 | 151.0 | 190.8 | 284.5 | 252.3 | 208.9 | 191.1 | 185.7 |
| 80°   | 150.2  | 143.0  | 138.3 | 143.7 | 124.2 | 162.5 | 259.9 | 235.3 | 190.8 | 171.2 | 163.3 |
| 82.5° | 93.4   | 88.3   | 106.1 | 111.9 | 95.6  | 148.4 | 246.5 | 220.8 | 168.0 | 141.9 | 135.4 |
| 85°   | 47.4   | 50.7   | 71.0  | 76.4  | 68.4  | 118.0 | 203.1 | 165.8 | 121.3 | 100.6 | 101.4 |
| 87.5° | 18.1   | 24.3   | 37.3  | 40.2  | 36.6  | 62.3  | 111.9 | 96.7  | 77.8  | 52.9  | 48.9  |
| 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)