

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: P452034

Luminaire Tested: **GLAN-SA3A-722-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-722-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7502 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 93  
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



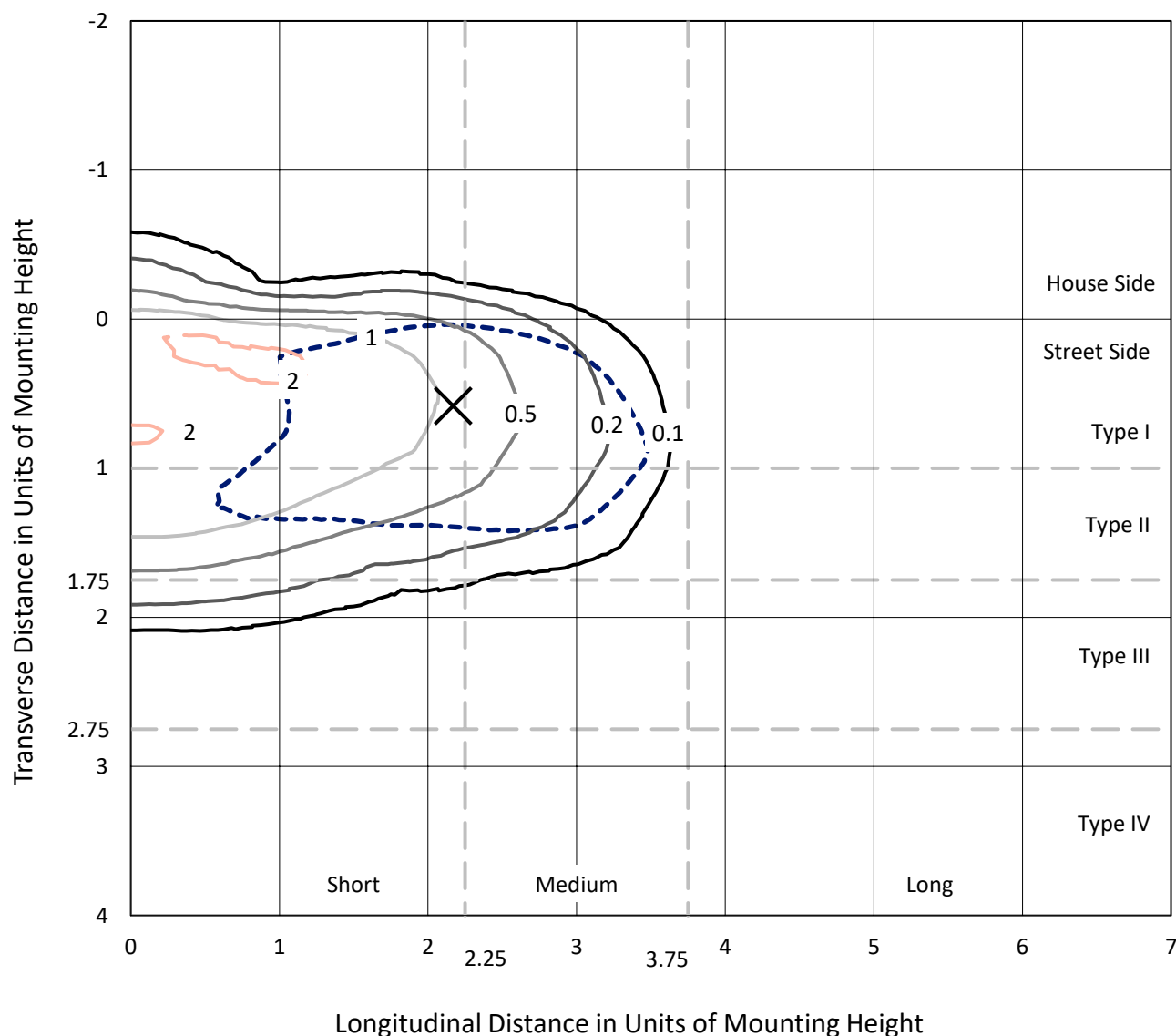
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

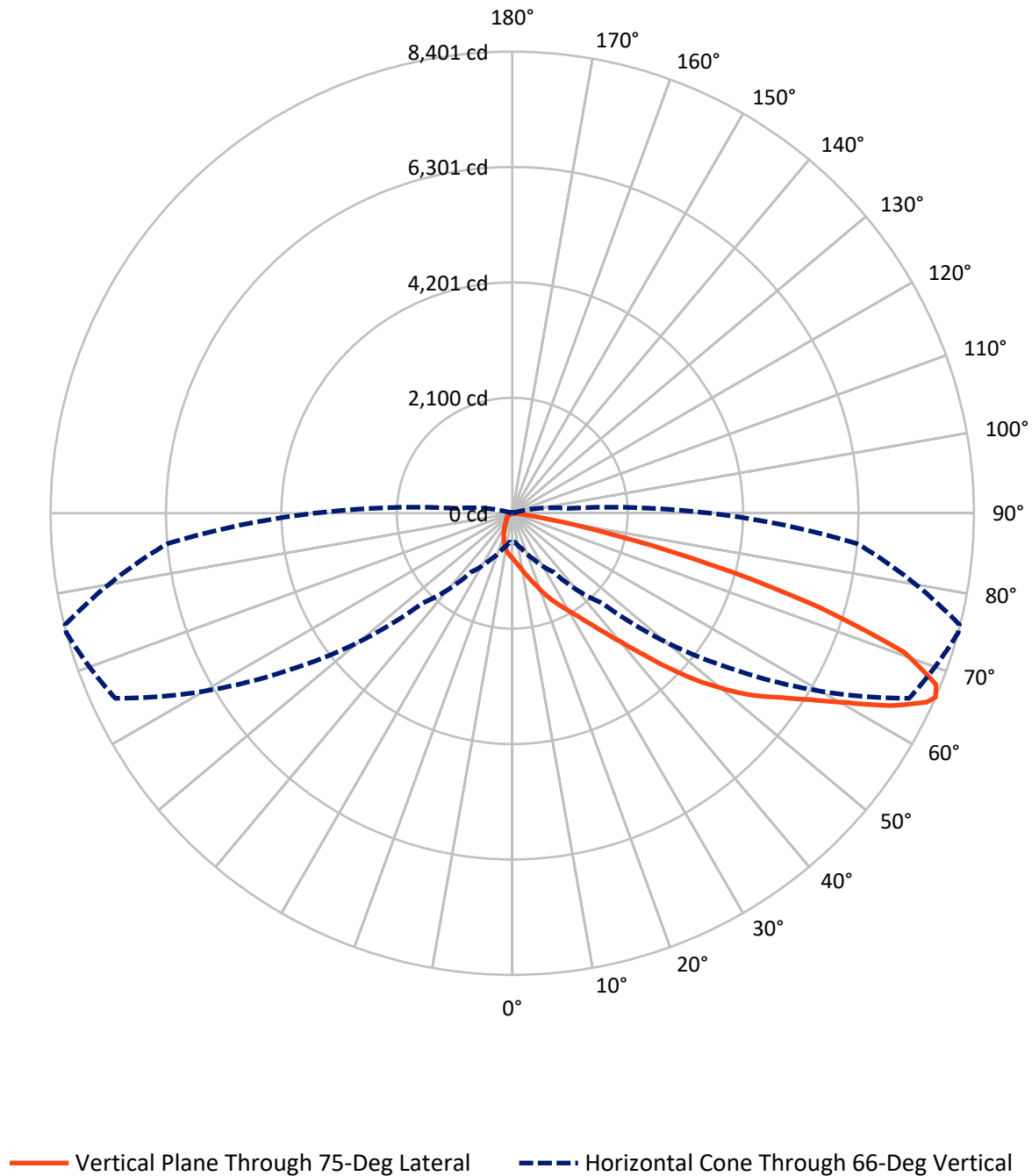


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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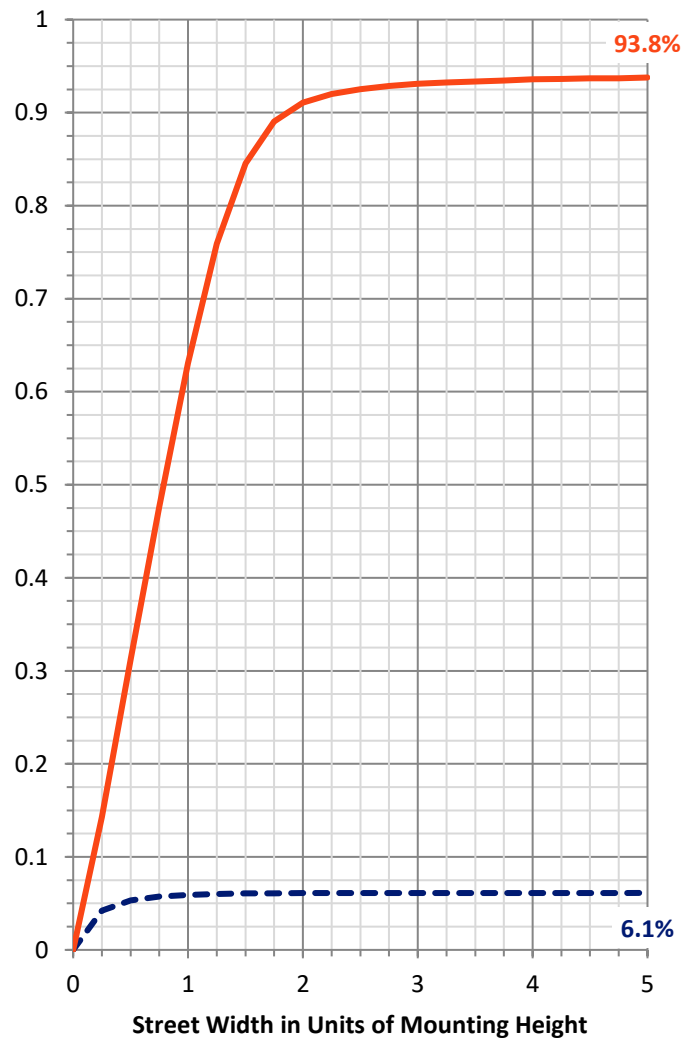
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 463.1    | 0.0    | 463.1  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 7038.9   | 0.0    | 7038.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 7502.0   | 0.0    | 7502.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.1   | 1.1       |
| 10°-20°   | 232.9  | 3.1       |
| 20°-30°   | 402.1  | 5.4       |
| 30°-40°   | 725.4  | 9.7       |
| 40°-50°   | 1310.4 | 17.5      |
| 50°-60°   | 2043.0 | 27.2      |
| 60°-70°   | 1940.7 | 25.9      |
| 70°-80°   | 727.3  | 9.7       |
| 80°-90°   | 41.0   | 0.5       |
| 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°    | 7502.0 | 100.0     |
| 0°-180°   | 7502.0 | 100.0     |

**Coefficient of Utilization**



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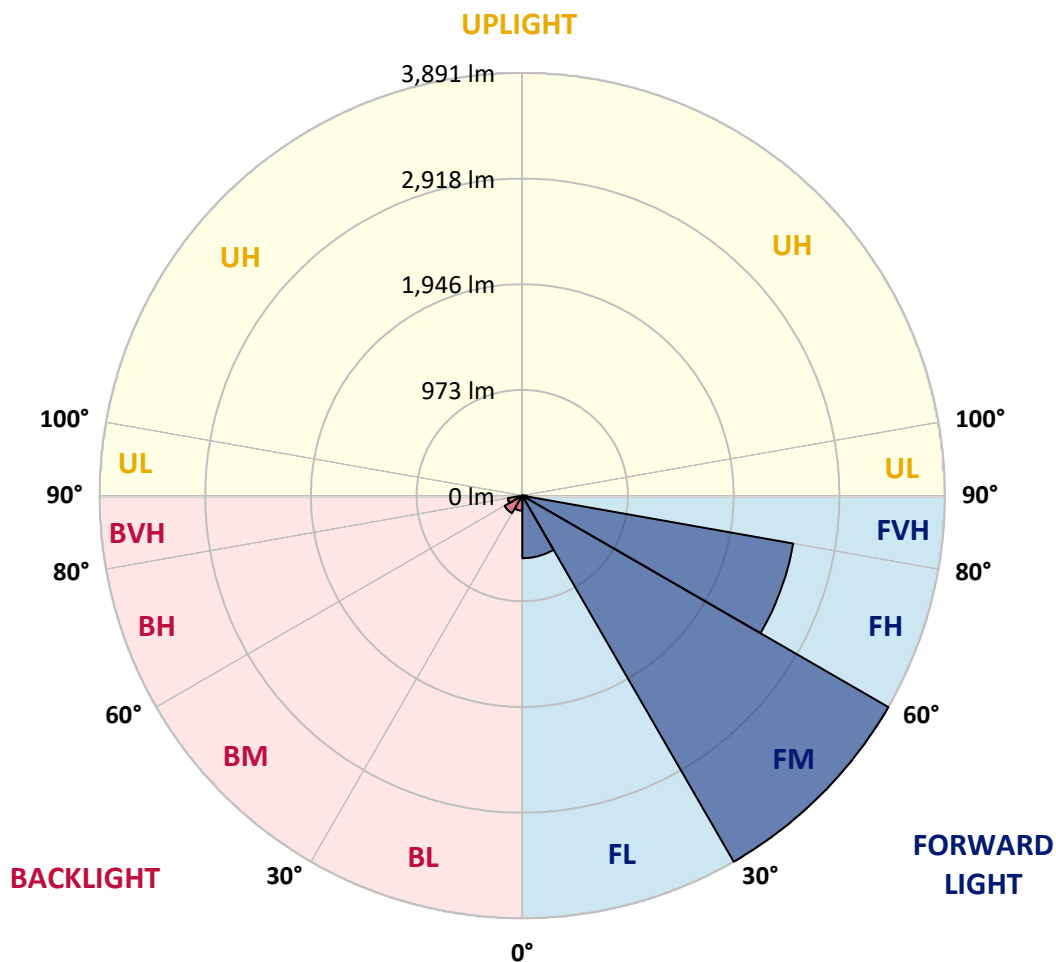
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 575.8  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 3891.3 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2532.8 | 33.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 38.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 138.3  | 1.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 187.5  | 2.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 135.2  | 1.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.1    | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  | 820.4  |
| 2.5°  | 980.2  | 968.0  | 971.9  | 966.3  | 953.5  | 934.7  | 918.0  | 894.2  | 870.3  | 866.5  | 839.8  |
| 5°    | 1109.4 | 1106.1 | 1101.7 | 1085.6 | 1076.7 | 1047.8 | 1013.5 | 972.4  | 923.0  | 914.2  | 865.9  |
| 7.5°  | 1197.6 | 1196.0 | 1198.2 | 1189.9 | 1182.1 | 1156.0 | 1119.4 | 1063.4 | 986.8  | 981.8  | 901.4  |
| 10°   | 1226.5 | 1230.9 | 1239.2 | 1252.5 | 1264.7 | 1256.4 | 1228.7 | 1158.8 | 1069.5 | 1055.1 | 941.9  |
| 12.5° | 1209.8 | 1214.8 | 1234.8 | 1270.3 | 1309.7 | 1332.4 | 1321.3 | 1270.3 | 1157.1 | 1145.5 | 987.4  |
| 15°   | 1167.1 | 1173.2 | 1201.5 | 1256.4 | 1326.9 | 1391.2 | 1419.0 | 1382.3 | 1259.2 | 1240.3 | 1042.3 |
| 17.5° | 1103.9 | 1112.8 | 1153.2 | 1225.9 | 1322.4 | 1433.4 | 1511.6 | 1499.4 | 1367.9 | 1350.2 | 1102.2 |
| 20°   | 1056.2 | 1062.8 | 1097.2 | 1180.4 | 1303.6 | 1456.7 | 1599.8 | 1634.2 | 1502.2 | 1471.6 | 1172.7 |
| 22.5° | 1087.8 | 1090.0 | 1101.7 | 1151.6 | 1269.7 | 1462.8 | 1677.4 | 1774.5 | 1644.7 | 1617.5 | 1245.9 |
| 25°   | 1242.6 | 1220.4 | 1208.7 | 1197.6 | 1262.5 | 1457.2 | 1747.9 | 1921.0 | 1786.7 | 1757.9 | 1318.5 |
| 27.5° | 1486.6 | 1476.6 | 1417.8 | 1339.1 | 1324.1 | 1464.4 | 1794.5 | 2059.6 | 1920.4 | 1889.3 | 1389.6 |
| 30°   | 1752.3 | 1735.1 | 1699.1 | 1583.7 | 1467.8 | 1515.5 | 1828.3 | 2194.4 | 2078.5 | 2037.5 | 1454.5 |
| 32.5° | 1996.4 | 2007.5 | 1953.7 | 1835.0 | 1700.7 | 1624.2 | 1872.2 | 2341.4 | 2259.9 | 2208.9 | 1529.9 |
| 35°   | 2281.0 | 2303.2 | 2220.5 | 2106.8 | 1949.8 | 1820.6 | 1957.6 | 2507.3 | 2490.1 | 2425.8 | 1646.4 |
| 37.5° | 2570.0 | 2583.3 | 2532.8 | 2373.1 | 2231.6 | 2070.2 | 2118.4 | 2712.0 | 2773.6 | 2718.6 | 1785.6 |
| 40°   | 2812.9 | 2831.2 | 2794.1 | 2652.1 | 2501.2 | 2359.2 | 2352.0 | 2935.0 | 3110.8 | 3054.2 | 1993.1 |
| 42.5° | 2998.8 | 3012.6 | 3013.7 | 2913.3 | 2777.4 | 2713.1 | 2649.9 | 3219.5 | 3533.5 | 3468.1 | 2233.8 |
| 45°   | 3233.4 | 3253.4 | 3241.7 | 3173.5 | 3072.0 | 3060.3 | 3027.6 | 3563.5 | 4039.4 | 3956.8 | 2546.1 |
| 47.5° | 3596.2 | 3609.5 | 3580.7 | 3500.2 | 3397.1 | 3415.4 | 3395.9 | 3949.0 | 4555.3 | 4484.3 | 2869.5 |
| 50°   | 3848.0 | 3870.2 | 3911.3 | 3943.4 | 3868.6 | 3800.9 | 3743.2 | 4309.0 | 5045.1 | 4981.3 | 3200.1 |
| 52.5° | 3845.3 | 3881.9 | 4011.7 | 4173.6 | 4337.3 | 4316.8 | 4150.9 | 4706.7 | 5512.7 | 5434.0 | 3510.8 |
| 55°   | 3586.2 | 3657.2 | 3848.0 | 4135.4 | 4588.6 | 4814.3 | 4738.9 | 5167.1 | 5916.5 | 5863.3 | 3870.8 |
| 57.5° | 3051.5 | 3094.7 | 3359.9 | 3761.5 | 4448.2 | 5048.4 | 5420.1 | 5791.2 | 6400.8 | 6375.9 | 4429.9 |
| 60°   | 2052.4 | 2071.8 | 2413.0 | 2909.5 | 3787.0 | 4814.9 | 5919.3 | 6546.1 | 6997.1 | 6984.9 | 5082.8 |
| 62.5° | 1176.0 | 1184.3 | 1431.7 | 1850.5 | 2694.8 | 4080.5 | 5961.5 | 7477.5 | 7712.1 | 7718.8 | 5838.3 |
| 65°   | 632.9  | 637.4  | 837.1  | 1086.1 | 1639.7 | 2908.4 | 5360.7 | 7987.8 | 8290.2 | 8302.9 | 6306.5 |
| 66°   | 546.4  | 525.3  | 666.2  | 925.8  | 1304.7 | 2314.8 | 4980.8 | 7969.5 | 8401.1 | 8387.2 | 6289.9 |
| 67.5° | 415.5  | 434.3  | 532.0  | 711.7  | 966.9  | 1645.8 | 4112.1 | 7615.1 | 8316.8 | 8273.5 | 6034.1 |
| 70°   | 297.3  | 305.1  | 378.9  | 507.6  | 658.4  | 903.1  | 2627.7 | 6324.8 | 7559.0 | 7500.8 | 5257.0 |
| 72.5° | 191.9  | 200.3  | 268.5  | 367.2  | 475.9  | 493.1  | 1471.1 | 4569.7 | 5827.8 | 5819.5 | 3959.0 |
| 75°   | 137.0  | 144.8  | 177.5  | 262.9  | 357.8  | 305.1  | 708.4  | 3079.8 | 3704.9 | 3680.0 | 2449.0 |
| 77.5° | 99.3   | 103.2  | 118.7  | 172.0  | 255.7  | 218.6  | 328.4  | 1644.7 | 1844.4 | 1931.5 | 1082.2 |
| 80°   | 57.1   | 60.5   | 82.7   | 104.8  | 173.1  | 149.2  | 157.0  | 660.1  | 680.6  | 647.9  | 338.4  |
| 82.5° | 28.3   | 32.2   | 49.4   | 71.6   | 108.2  | 100.4  | 72.1   | 198.6  | 209.7  | 204.1  | 85.4   |
| 85°   | 6.7    | 8.3    | 27.7   | 47.2   | 52.7   | 44.9   | 34.9   | 58.2   | 72.1   | 70.4   | 32.7   |
| 87.5° | 0.6    | 1.1    | 10.0   | 8.3    | 8.9    | 15.0   | 12.2   | 15.0   | 23.3   | 21.6   | 11.6   |
| 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°    | 820.4  | 820.4  | 820.4 | 820.4 | 820.4 | 820.4 | 820.4 | 820.4 | 820.4 | 820.4 | 820.4 |
| 2.5°  | 827.6  | 817.1  | 786.6 | 756.6 | 731.7 | 705.6 | 681.7 | 667.9 | 662.3 | 656.2 | 659.0 |
| 5°    | 839.3  | 813.8  | 752.2 | 698.9 | 646.8 | 602.4 | 566.9 | 544.2 | 533.1 | 531.4 | 528.6 |
| 7.5°  | 854.8  | 811.0  | 715.6 | 632.4 | 564.1 | 514.8 | 474.3 | 441.6 | 431.6 | 422.7 | 415.5 |
| 10°   | 873.7  | 806.0  | 670.1 | 562.5 | 489.8 | 427.7 | 374.4 | 335.6 | 315.6 | 310.1 | 314.0 |
| 12.5° | 893.6  | 796.6  | 622.4 | 498.1 | 414.4 | 335.0 | 285.7 | 266.3 | 260.7 | 258.5 | 259.1 |
| 15°   | 913.6  | 784.9  | 572.5 | 436.0 | 330.1 | 267.4 | 244.6 | 239.6 | 237.4 | 236.3 | 235.2 |
| 17.5° | 931.9  | 766.1  | 516.4 | 375.5 | 267.4 | 228.5 | 220.2 | 215.8 | 211.3 | 209.7 | 206.9 |
| 20°   | 953.5  | 744.4  | 466.0 | 307.9 | 226.3 | 206.9 | 196.9 | 188.6 | 181.9 | 177.5 | 177.0 |
| 22.5° | 974.1  | 716.7  | 413.3 | 255.2 | 206.4 | 185.8 | 169.7 | 160.9 | 153.1 | 147.6 | 149.2 |
| 25°   | 985.2  | 682.8  | 366.1 | 222.4 | 188.0 | 164.7 | 147.0 | 135.9 | 127.6 | 124.8 | 124.3 |
| 27.5° | 985.2  | 641.2  | 320.1 | 203.6 | 171.4 | 145.9 | 127.6 | 117.0 | 111.5 | 107.6 | 108.2 |
| 30°   | 977.4  | 595.2  | 277.4 | 189.2 | 157.0 | 129.2 | 112.1 | 102.6 | 98.2  | 95.4  | 94.9  |
| 32.5° | 971.3  | 551.4  | 240.7 | 175.3 | 142.0 | 114.8 | 99.8  | 92.6  | 88.2  | 85.4  | 85.4  |
| 35°   | 980.7  | 513.7  | 212.5 | 161.4 | 128.1 | 103.7 | 90.4  | 83.8  | 79.3  | 77.1  | 76.6  |
| 37.5° | 1005.7 | 479.3  | 190.8 | 146.4 | 115.4 | 94.3  | 83.8  | 76.0  | 71.6  | 68.8  | 67.7  |
| 40°   | 1067.3 | 459.9  | 174.7 | 132.6 | 103.2 | 86.5  | 76.0  | 68.8  | 63.2  | 60.5  | 59.9  |
| 42.5° | 1166.0 | 460.4  | 159.2 | 119.8 | 93.7  | 79.9  | 69.3  | 61.0  | 54.9  | 52.1  | 51.6  |
| 45°   | 1314.7 | 481.5  | 147.0 | 107.6 | 85.4  | 72.7  | 62.1  | 53.3  | 47.7  | 44.9  | 44.9  |
| 47.5° | 1492.7 | 522.5  | 136.5 | 97.1  | 77.7  | 66.0  | 54.9  | 46.0  | 40.5  | 38.3  | 38.3  |
| 50°   | 1685.8 | 575.8  | 125.9 | 86.0  | 71.0  | 58.8  | 47.2  | 39.9  | 35.5  | 33.8  | 33.8  |
| 52.5° | 1882.7 | 640.1  | 115.4 | 77.1  | 63.8  | 51.0  | 40.5  | 35.5  | 31.6  | 30.5  | 30.0  |
| 55°   | 2141.2 | 722.2  | 104.3 | 67.7  | 56.0  | 43.8  | 36.1  | 31.1  | 26.6  | 25.0  | 24.4  |
| 57.5° | 2538.9 | 845.9  | 92.1  | 59.4  | 46.0  | 36.6  | 31.1  | 26.1  | 21.1  | 18.3  | 17.8  |
| 60°   | 3018.7 | 996.8  | 79.3  | 52.1  | 37.2  | 30.0  | 25.0  | 20.0  | 15.5  | 12.2  | 11.6  |
| 62.5° | 3468.1 | 1092.8 | 67.1  | 43.8  | 29.4  | 22.7  | 17.8  | 15.0  | 11.1  | 7.8   | 7.2   |
| 65°   | 3666.6 | 1060.6 | 55.5  | 35.5  | 23.3  | 16.1  | 11.6  | 10.5  | 6.7   | 3.3   | 2.8   |
| 66°   | 3600.6 | 1012.9 | 51.0  | 32.2  | 21.1  | 13.9  | 10.0  | 8.9   | 5.0   | 1.7   | 1.7   |
| 67.5° | 3405.9 | 900.3  | 44.4  | 27.7  | 18.3  | 11.1  | 7.8   | 6.7   | 2.8   | 0.6   | 0.0   |
| 70°   | 2918.3 | 728.3  | 34.9  | 20.5  | 13.3  | 7.8   | 4.4   | 3.3   | 1.7   | 0.0   | 0.0   |
| 72.5° | 2241.6 | 542.5  | 27.7  | 15.5  | 9.4   | 4.4   | 2.2   | 1.1   | 1.7   | 0.0   | 0.0   |
| 75°   | 1373.5 | 310.1  | 21.6  | 11.6  | 6.1   | 2.8   | 1.7   | 0.0   | 1.7   | 0.6   | 0.0   |
| 77.5° | 609.6  | 139.2  | 14.4  | 7.8   | 4.4   | 2.2   | 1.1   | 0.0   | 1.1   | 0.6   | 0.0   |
| 80°   | 154.2  | 45.5   | 8.3   | 5.5   | 3.3   | 1.7   | 0.6   | 0.0   | 1.1   | 1.1   | 0.6   |
| 82.5° | 42.2   | 16.6   | 6.1   | 4.4   | 2.8   | 1.7   | 0.6   | 0.0   | 1.1   | 1.1   | 1.1   |
| 85°   | 16.6   | 7.8    | 5.5   | 4.4   | 3.3   | 1.7   | 0.6   | 0.0   | 1.1   | 1.1   | 1.1   |
| 87.5° | 7.8    | 5.5    | 5.5   | 5.0   | 3.9   | 1.7   | 0.6   | 0.0   | 1.1   | 0.6   | 1.1   |
| 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)