

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: P529774

Luminaire Tested: **GLAN-SA5A-722-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-722-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14121 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 154  
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

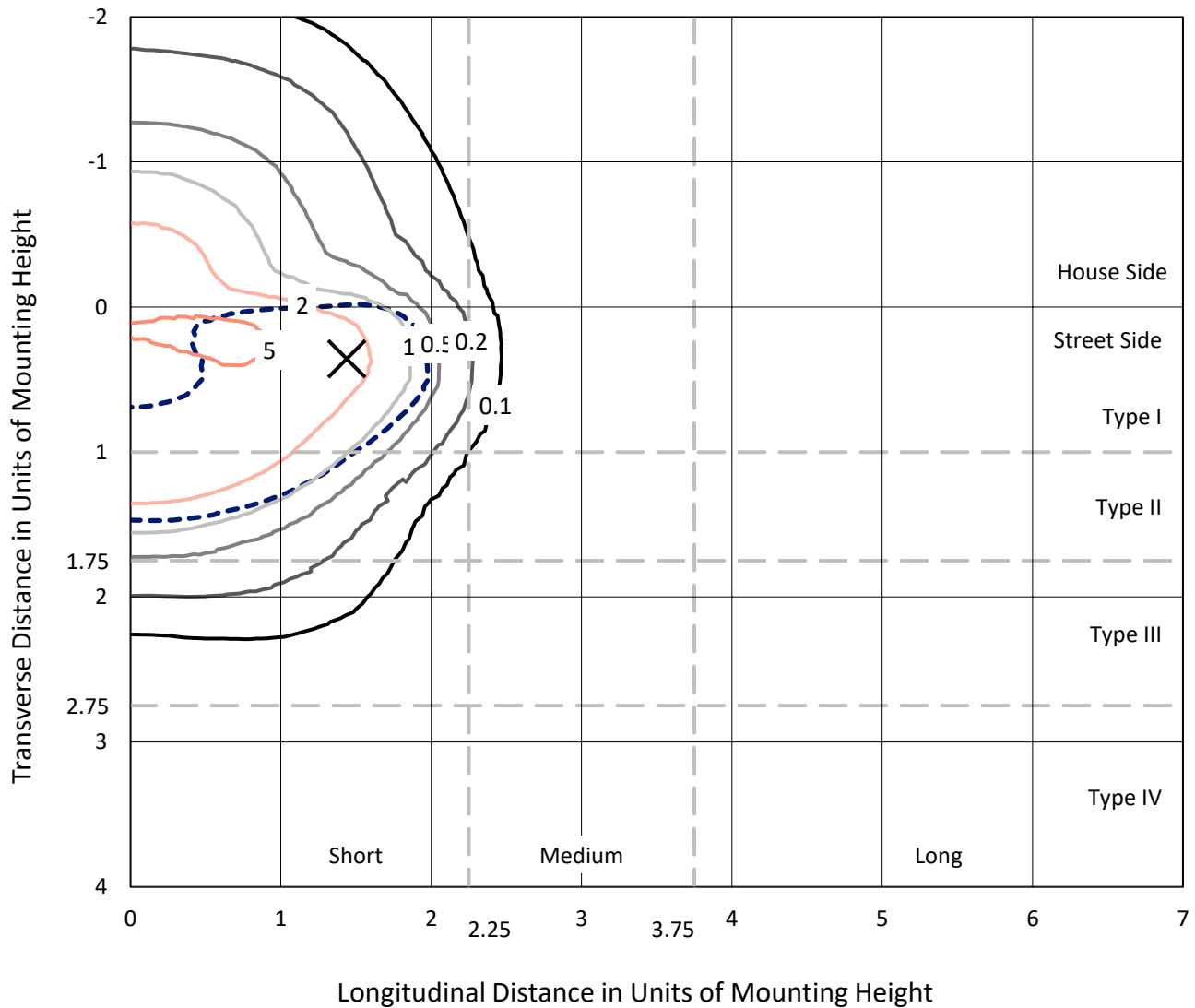


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

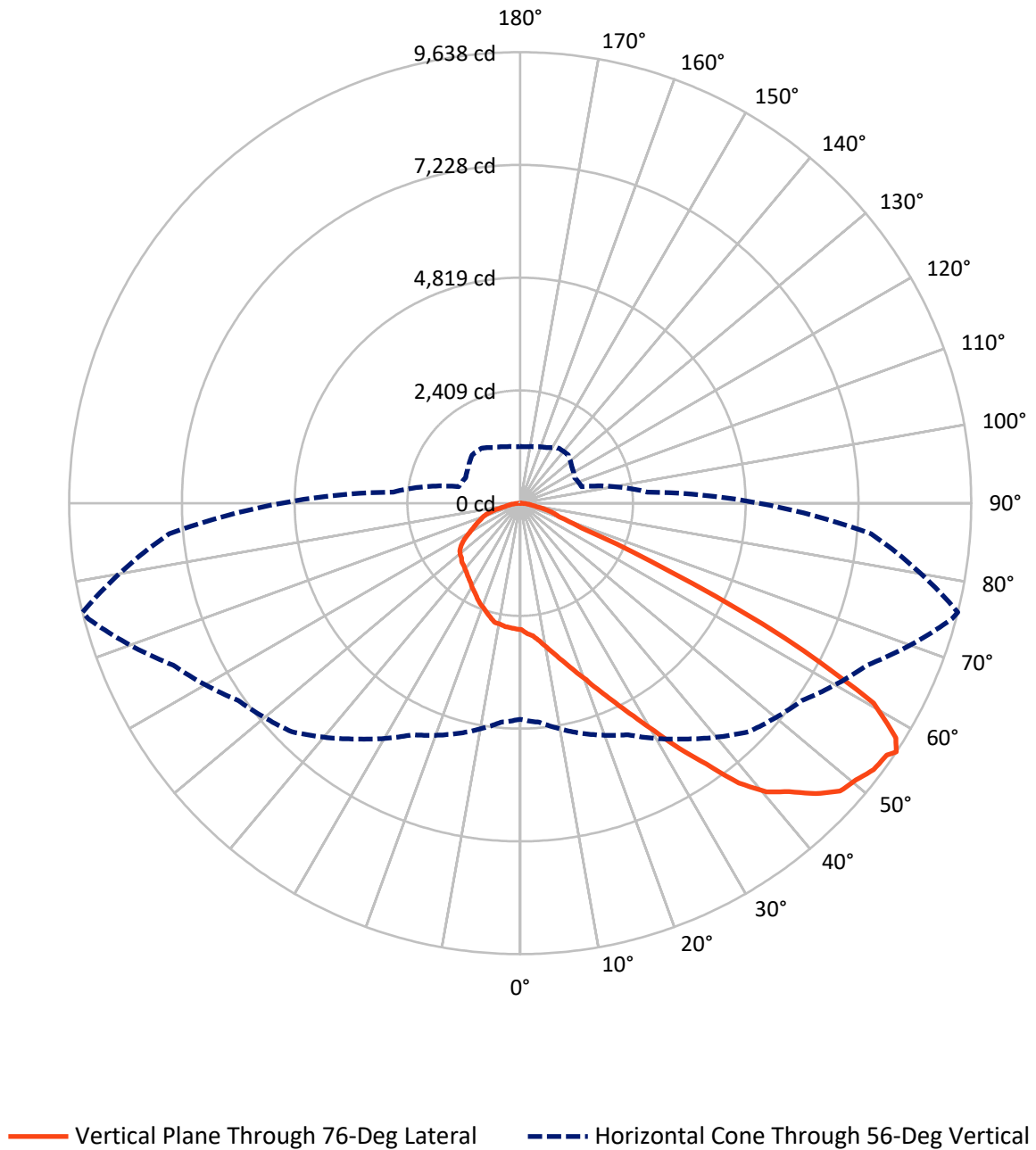


Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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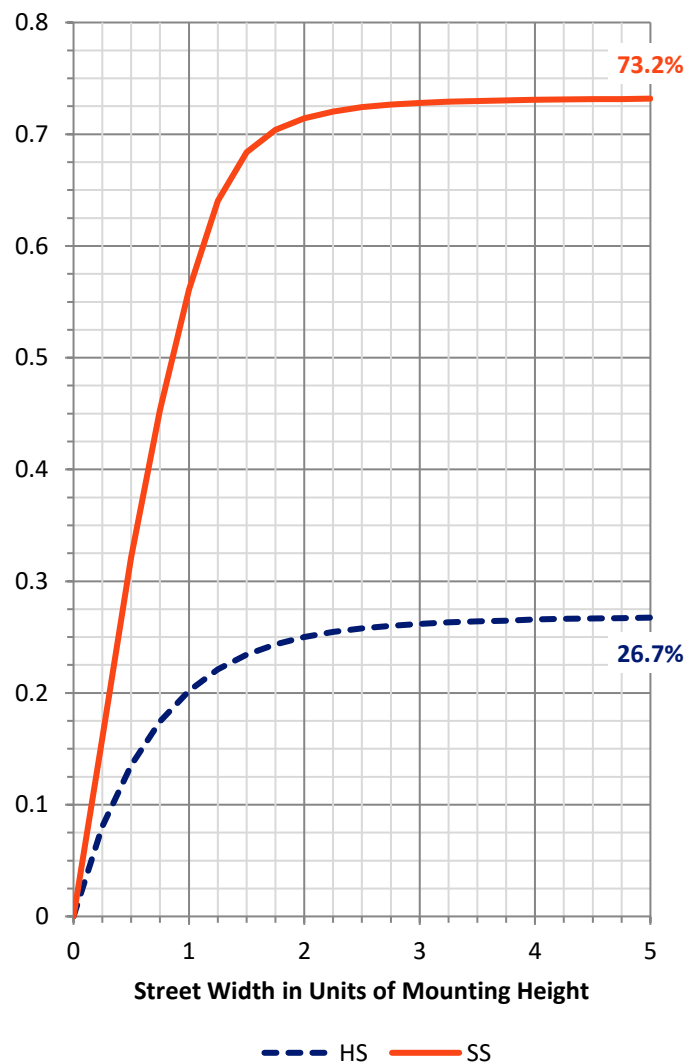
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3796.7   | 0.0    | 3796.7  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 10324.3  | 0.0    | 10324.3 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 14121.0  | 0.0    | 14121.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.9   | 1.9       |
| 10°-20°   | 841.7   | 6.0       |
| 20°-30°   | 1472.0  | 10.4      |
| 30°-40°   | 2304.8  | 16.3      |
| 40°-50°   | 3352.8  | 23.7      |
| 50°-60°   | 3684.9  | 26.1      |
| 60°-70°   | 1644.8  | 11.6      |
| 70°-80°   | 475.1   | 3.4       |
| 80°-90°   | 77.1    | 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°    | 14121.0 | 100.0     |
| 0°-180°   | 14121.0 | 100.0     |

**Coefficient of Utilization**



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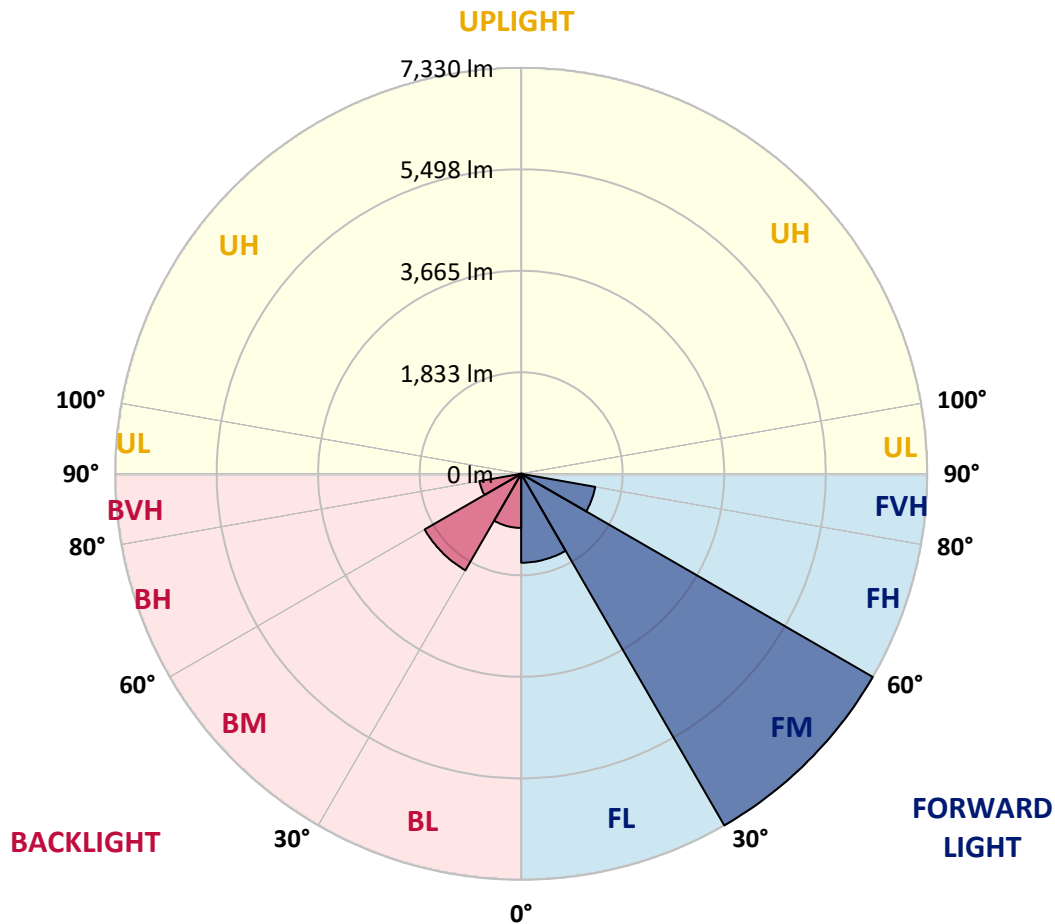
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1604.7 | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 7330.5 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 1356.0 | 9.6       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 33.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 977.0  | 6.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2011.9 | 14.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 763.9  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 43.9   | 0.3       |                         |      | G1/100  |
| 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°    | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 |
| 2.5°  | 2976.5 | 2928.9 | 2925.2 | 2912.4 | 2919.7 | 2886.8 | 2852.0 | 2806.2 | 2758.6 | 2787.9 | 2718.3 |
| 5°    | 3185.1 | 3121.1 | 3146.7 | 3102.8 | 3108.3 | 3064.3 | 2992.9 | 2939.8 | 2881.3 | 2846.5 | 2797.1 |
| 7.5°  | 3258.4 | 3263.8 | 3282.2 | 3274.8 | 3238.2 | 3238.2 | 3190.6 | 3097.3 | 2994.8 | 2974.6 | 2892.2 |
| 10°   | 3357.2 | 3359.0 | 3338.9 | 3344.4 | 3395.6 | 3371.8 | 3329.7 | 3289.5 | 3157.7 | 3133.9 | 2987.4 |
| 12.5° | 3392.0 | 3359.0 | 3392.0 | 3421.3 | 3481.7 | 3514.6 | 3505.5 | 3476.2 | 3335.2 | 3318.8 | 3104.6 |
| 15°   | 3397.5 | 3377.3 | 3404.8 | 3470.7 | 3523.8 | 3662.9 | 3732.5 | 3712.3 | 3525.6 | 3527.4 | 3236.4 |
| 17.5° | 3371.8 | 3399.3 | 3410.3 | 3467.0 | 3589.7 | 3719.7 | 3921.0 | 3948.5 | 3794.7 | 3770.9 | 3403.0 |
| 20°   | 3406.6 | 3386.5 | 3401.1 | 3452.4 | 3615.3 | 3818.5 | 4082.1 | 4263.3 | 4047.3 | 4030.8 | 3575.0 |
| 22.5° | 3540.3 | 3512.8 | 3509.1 | 3542.1 | 3659.2 | 3869.8 | 4252.3 | 4578.2 | 4354.8 | 4364.0 | 3789.2 |
| 25°   | 3644.6 | 3659.2 | 3646.4 | 3644.6 | 3717.8 | 3946.6 | 4477.5 | 4953.4 | 4772.2 | 4719.1 | 4041.8 |
| 27.5° | 3824.0 | 3858.8 | 3833.1 | 3867.9 | 3851.4 | 4062.0 | 4638.6 | 5369.0 | 5222.5 | 5151.1 | 4270.6 |
| 30°   | 4072.9 | 4091.2 | 4067.5 | 4067.5 | 4018.0 | 4223.0 | 4785.0 | 5802.8 | 5742.4 | 5645.4 | 4539.7 |
| 32.5° | 4400.6 | 4428.1 | 4380.5 | 4353.0 | 4345.7 | 4462.8 | 5048.6 | 6231.1 | 6333.7 | 6251.3 | 4896.7 |
| 35°   | 4834.4 | 4818.0 | 4761.2 | 4735.6 | 4636.7 | 4830.8 | 5440.4 | 6723.6 | 6992.6 | 6846.2 | 5328.7 |
| 37.5° | 5217.0 | 5191.4 | 5187.7 | 5045.0 | 5068.8 | 5228.0 | 5773.5 | 7097.0 | 7631.5 | 7589.4 | 5784.5 |
| 40°   | 5574.0 | 5597.8 | 5636.2 | 5555.7 | 5519.1 | 5694.8 | 6161.6 | 7382.6 | 8127.6 | 8111.1 | 6136.0 |
| 42.5° | 5956.6 | 5934.6 | 6002.3 | 5934.6 | 5879.7 | 6128.6 | 6582.6 | 7580.3 | 8563.3 | 8427.8 | 6503.9 |
| 45°   | 6511.2 | 6441.7 | 6465.5 | 6470.9 | 6430.7 | 6522.2 | 6756.5 | 7723.0 | 8868.9 | 8854.3 | 6773.0 |
| 47.5° | 6974.3 | 6976.2 | 6935.9 | 6904.8 | 6782.1 | 6873.7 | 6950.5 | 7812.7 | 9220.4 | 9196.6 | 6877.3 |
| 50°   | 7146.4 | 7122.6 | 7239.8 | 7307.5 | 7314.8 | 7128.1 | 7102.5 | 7862.2 | 9405.3 | 9301.0 | 6981.7 |
| 52.5° | 6527.7 | 6549.7 | 6734.5 | 7137.3 | 7369.7 | 7389.9 | 7280.0 | 7964.7 | 9480.3 | 9458.4 | 7065.9 |
| 55°   | 5253.6 | 5359.8 | 5663.7 | 6128.6 | 6679.6 | 7285.5 | 7472.3 | 8070.8 | 9520.6 | 9502.3 | 7439.3 |
| 56°   | 4618.4 | 4700.8 | 5096.2 | 5460.5 | 6152.4 | 6906.6 | 7351.4 | 8184.3 | 9551.7 | 9637.8 | 7527.2 |
| 57.5° | 3717.8 | 3813.0 | 4096.7 | 4510.4 | 5326.9 | 6185.4 | 7018.3 | 8045.2 | 9430.9 | 9463.9 | 7591.2 |
| 60°   | 2324.8 | 2333.9 | 2674.4 | 2947.2 | 3522.0 | 4360.3 | 5356.2 | 7000.0 | 8728.0 | 8680.4 | 6818.7 |
| 62.5° | 1524.8 | 1526.7 | 1836.0 | 2059.4 | 2321.1 | 2513.3 | 3152.2 | 4642.2 | 6439.8 | 6355.6 | 4854.6 |
| 65°   | 1070.9 | 1094.7 | 1334.5 | 1632.8 | 1739.0 | 1638.3 | 1618.2 | 2447.4 | 3597.0 | 3476.2 | 2608.5 |
| 67.5° | 783.5  | 785.3  | 997.6  | 1318.0 | 1471.8 | 1246.6 | 1012.3 | 1195.3 | 1424.2 | 1420.5 | 1208.2 |
| 70°   | 518.0  | 540.0  | 702.9  | 984.8  | 1160.6 | 1001.3 | 827.4  | 854.9  | 906.1  | 906.1  | 898.8  |
| 72.5° | 302.0  | 322.2  | 430.2  | 624.2  | 651.7  | 626.0  | 655.3  | 732.2  | 765.2  | 763.3  | 754.2  |
| 75°   | 172.1  | 181.2  | 205.0  | 259.9  | 324.0  | 382.6  | 481.4  | 554.7  | 587.6  | 607.7  | 583.9  |
| 77.5° | 100.7  | 106.2  | 120.8  | 148.3  | 168.4  | 206.9  | 261.8  | 313.0  | 357.0  | 351.5  | 355.1  |
| 80°   | 53.1   | 53.1   | 67.7   | 87.9   | 117.2  | 146.4  | 173.9  | 203.2  | 227.0  | 232.5  | 238.0  |
| 82.5° | 31.1   | 32.9   | 43.9   | 64.1   | 84.2   | 104.3  | 133.6  | 153.8  | 175.7  | 177.6  | 181.2  |
| 85°   | 16.5   | 18.3   | 27.5   | 42.1   | 56.7   | 64.1   | 65.9   | 62.2   | 67.7   | 64.1   | 73.2   |
| 87.5° | 5.5    | 5.5    | 9.2    | 7.3    | 7.3    | 9.2    | 11.0   | 11.0   | 14.6   | 14.6   | 14.6   |
| 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°    | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 | 2701.9 |
| 2.5°  | 2716.5 | 2716.5 | 2685.4 | 2626.8 | 2617.7 | 2593.9 | 2571.9 | 2570.1 | 2553.6 | 2539.0 | 2531.6 |
| 5°    | 2767.8 | 2711.0 | 2665.3 | 2612.2 | 2549.9 | 2520.6 | 2487.7 | 2451.1 | 2436.4 | 2451.1 | 2449.3 |
| 7.5°  | 2826.3 | 2778.8 | 2641.5 | 2542.6 | 2471.2 | 2441.9 | 2405.3 | 2366.9 | 2370.5 | 2370.5 | 2344.9 |
| 10°   | 2883.1 | 2819.0 | 2599.4 | 2473.1 | 2368.7 | 2346.7 | 2326.6 | 2341.3 | 2359.6 | 2363.2 | 2346.7 |
| 12.5° | 2978.3 | 2833.7 | 2579.2 | 2403.5 | 2337.6 | 2290.0 | 2302.8 | 2343.1 | 2381.5 | 2370.5 | 2383.4 |
| 15°   | 3049.7 | 2846.5 | 2487.7 | 2332.1 | 2249.7 | 2271.7 | 2317.5 | 2344.9 | 2409.0 | 2401.7 | 2414.5 |
| 17.5° | 3119.2 | 2853.8 | 2398.0 | 2236.9 | 2202.1 | 2262.5 | 2297.3 | 2376.0 | 2396.2 | 2440.1 | 2456.6 |
| 20°   | 3262.0 | 2868.5 | 2306.5 | 2178.3 | 2167.4 | 2236.9 | 2297.3 | 2333.9 | 2377.9 | 2416.3 | 2416.3 |
| 22.5° | 3335.2 | 2861.1 | 2246.1 | 2101.5 | 2136.2 | 2180.2 | 2235.1 | 2297.3 | 2297.3 | 2333.9 | 2335.8 |
| 25°   | 3426.8 | 2831.8 | 2150.9 | 2064.8 | 2090.5 | 2132.6 | 2194.8 | 2172.8 | 2196.6 | 2196.6 | 2225.9 |
| 27.5° | 3531.1 | 2769.6 | 2068.5 | 1998.9 | 2050.2 | 2096.0 | 2105.1 | 2090.5 | 2063.0 | 2059.4 | 2048.4 |
| 30°   | 3615.3 | 2692.7 | 2008.1 | 1977.0 | 2019.1 | 2044.7 | 2015.4 | 1984.3 | 1936.7 | 1933.0 | 1907.4 |
| 32.5° | 3730.6 | 2597.5 | 1933.0 | 1922.1 | 1969.7 | 1971.5 | 1962.3 | 1914.7 | 1845.2 | 1815.9 | 1786.6 |
| 35°   | 3924.7 | 2542.6 | 1876.3 | 1892.8 | 1907.4 | 1901.9 | 1885.5 | 1834.2 | 1764.6 | 1751.8 | 1740.8 |
| 37.5° | 4067.5 | 2502.3 | 1817.7 | 1837.9 | 1850.7 | 1858.0 | 1808.6 | 1751.8 | 1753.7 | 1728.0 | 1720.7 |
| 40°   | 4228.5 | 2476.7 | 1770.1 | 1779.3 | 1781.1 | 1804.9 | 1744.5 | 1717.0 | 1729.9 | 1713.4 | 1724.4 |
| 42.5° | 4435.4 | 2484.0 | 1720.7 | 1713.4 | 1748.2 | 1739.0 | 1709.7 | 1673.1 | 1680.4 | 1631.0 | 1638.3 |
| 45°   | 4545.2 | 2533.5 | 1691.4 | 1658.5 | 1696.9 | 1695.1 | 1656.6 | 1621.9 | 1577.9 | 1482.7 | 1486.4 |
| 47.5° | 4618.4 | 2546.3 | 1621.9 | 1599.9 | 1640.2 | 1664.0 | 1620.0 | 1539.5 | 1477.2 | 1409.5 | 1393.0 |
| 50°   | 4693.5 | 2570.1 | 1588.9 | 1543.1 | 1559.6 | 1616.4 | 1561.4 | 1484.6 | 1424.2 | 1363.7 | 1372.9 |
| 52.5° | 4759.4 | 2615.8 | 1524.8 | 1457.1 | 1486.4 | 1548.6 | 1519.3 | 1426.0 | 1360.1 | 1310.7 | 1296.0 |
| 55°   | 5052.3 | 2718.3 | 1416.8 | 1329.0 | 1398.5 | 1477.2 | 1460.8 | 1347.3 | 1275.9 | 1250.3 | 1246.6 |
| 56°   | 5098.0 | 2722.0 | 1360.1 | 1285.0 | 1349.1 | 1453.4 | 1433.3 | 1312.5 | 1248.4 | 1208.2 | 1210.0 |
| 57.5° | 5105.4 | 2678.1 | 1279.5 | 1244.8 | 1299.7 | 1418.7 | 1393.0 | 1285.0 | 1197.2 | 1160.6 | 1149.6 |
| 60°   | 4492.1 | 2090.5 | 1178.9 | 1156.9 | 1221.0 | 1312.5 | 1303.3 | 1210.0 | 1111.1 | 1069.0 | 1089.2 |
| 62.5° | 3062.5 | 1532.2 | 1100.2 | 1096.5 | 1129.4 | 1219.1 | 1195.3 | 1111.1 | 1028.8 | 1001.3 | 988.5  |
| 65°   | 1782.9 | 1162.4 | 1023.3 | 1008.6 | 1036.1 | 1083.7 | 1100.2 | 1012.3 | 926.3  | 907.9  | 902.5  |
| 67.5° | 1052.6 | 961.0  | 924.4  | 900.6  | 891.5  | 920.8  | 933.6  | 882.3  | 796.3  | 770.7  | 792.6  |
| 70°   | 880.5  | 854.9  | 856.7  | 816.4  | 794.5  | 774.3  | 763.3  | 717.6  | 646.2  | 613.2  | 604.1  |
| 72.5° | 759.7  | 748.7  | 741.4  | 704.8  | 684.6  | 638.9  | 591.3  | 545.5  | 492.4  | 465.0  | 466.8  |
| 75°   | 580.3  | 576.6  | 580.3  | 562.0  | 527.2  | 490.6  | 446.7  | 388.1  | 347.8  | 313.0  | 320.3  |
| 77.5° | 346.0  | 357.0  | 362.4  | 355.1  | 340.5  | 307.5  | 280.1  | 241.6  | 203.2  | 175.7  | 172.1  |
| 80°   | 238.0  | 247.1  | 256.3  | 247.1  | 232.5  | 208.7  | 179.4  | 150.1  | 122.6  | 108.0  | 104.3  |
| 82.5° | 181.2  | 190.4  | 195.9  | 186.7  | 168.4  | 142.8  | 122.6  | 102.5  | 80.5   | 65.9   | 62.2   |
| 85°   | 65.9   | 75.1   | 73.2   | 87.9   | 95.2   | 91.5   | 78.7   | 60.4   | 45.8   | 32.9   | 31.1   |
| 87.5° | 18.3   | 16.5   | 18.3   | 18.3   | 18.3   | 16.5   | 14.6   | 14.6   | 14.6   | 9.2    | 7.3    |
| 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)