

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: P528322

Luminaire Tested: **GLAN-SA3B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10646 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

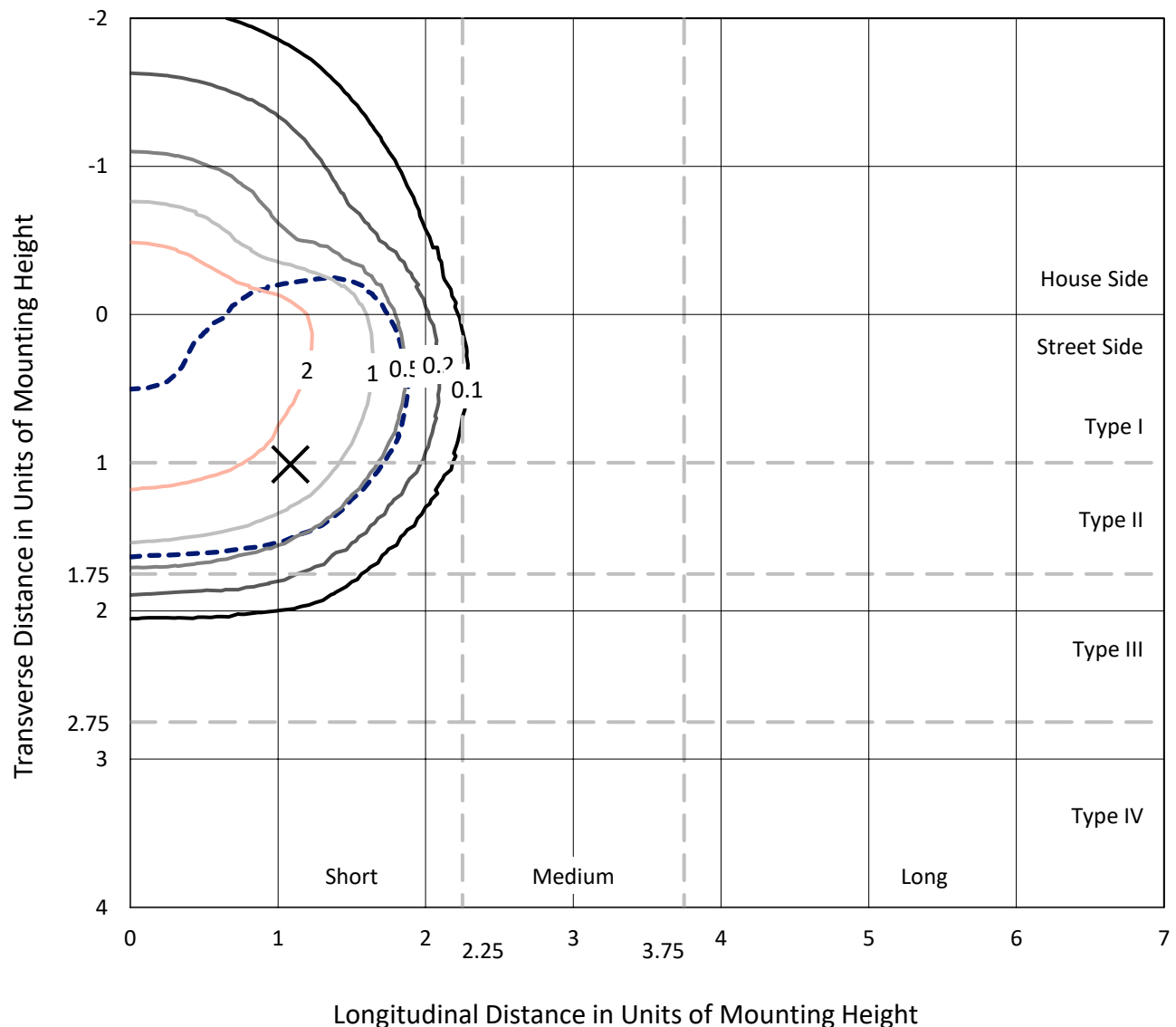
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

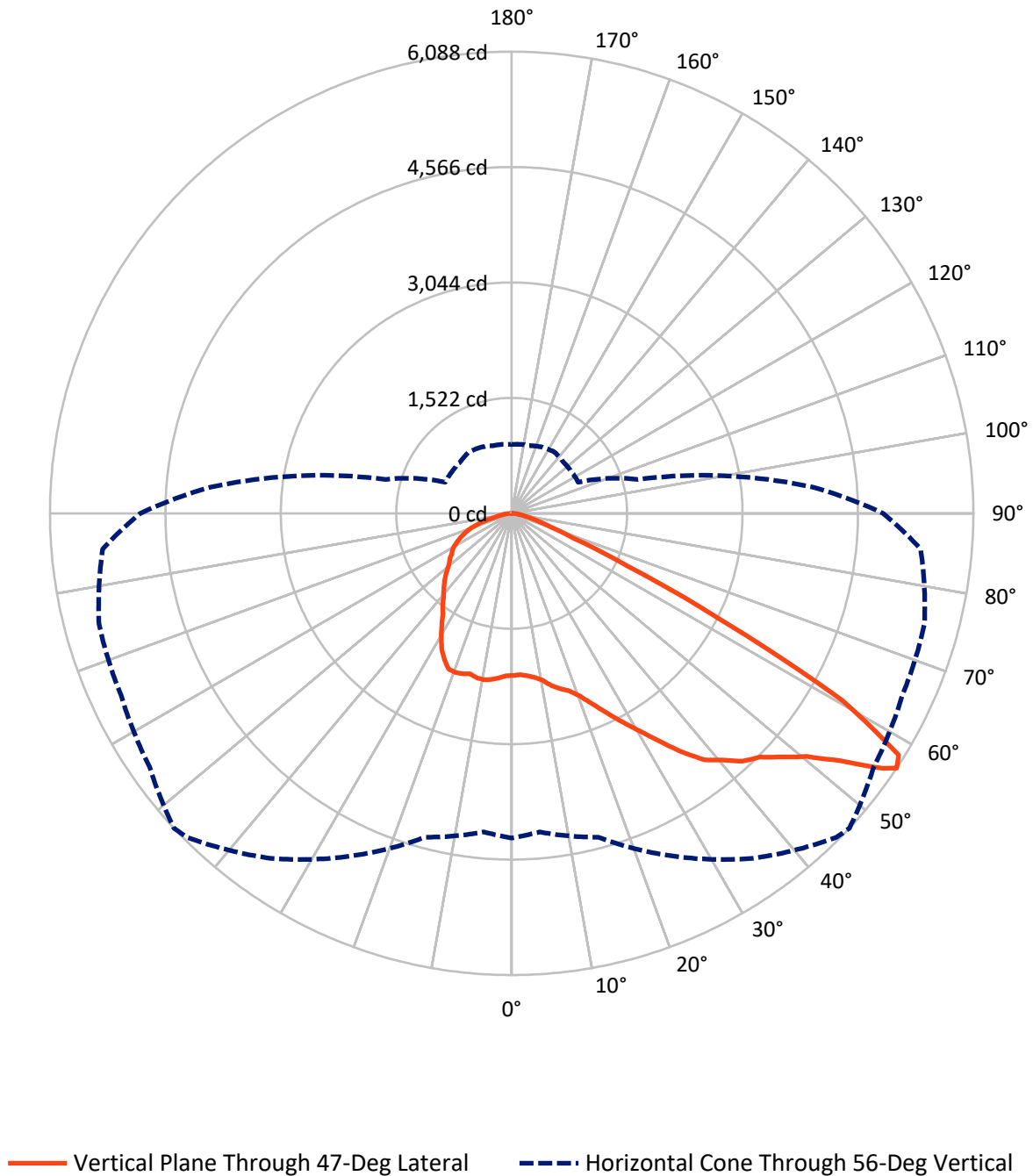
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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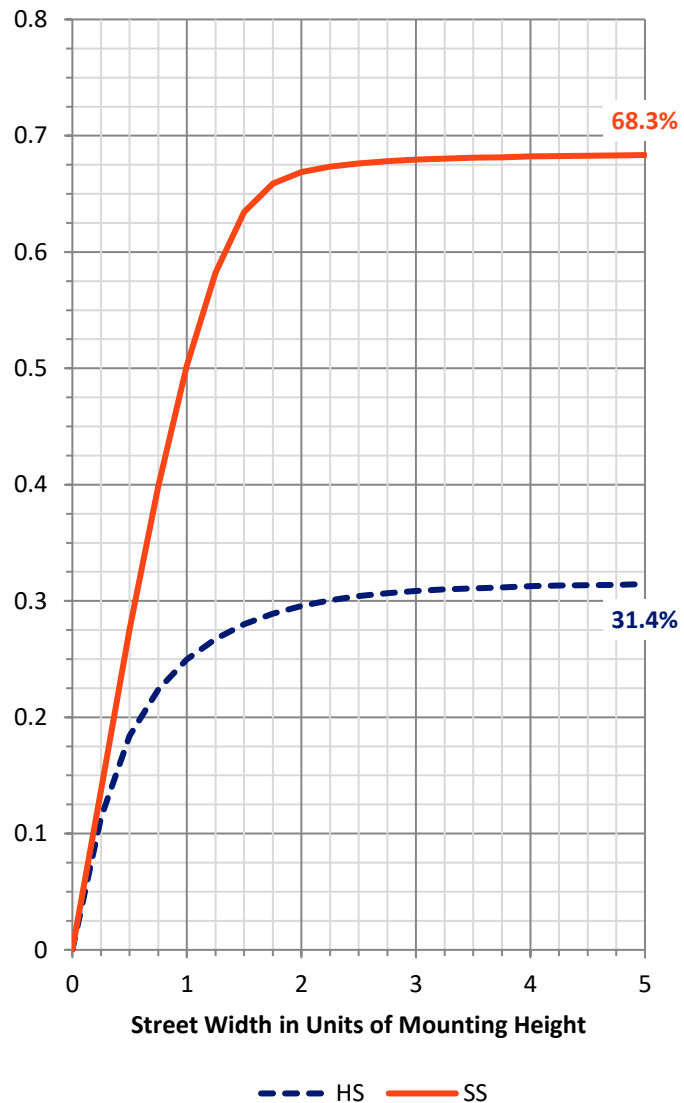
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3373.6   | 0.0    | 3373.6  |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 7272.4   | 0.0    | 7272.4  |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 10646.0  | 0.0    | 10646.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 208.4   | 2.0       |
| 10°-20°   | 657.3   | 6.2       |
| 20°-30°   | 1161.9  | 10.9      |
| 30°-40°   | 1745.2  | 16.4      |
| 40°-50°   | 2395.1  | 22.5      |
| 50°-60°   | 2853.4  | 26.8      |
| 60°-70°   | 1221.1  | 11.5      |
| 70°-80°   | 345.6   | 3.2       |
| 80°-90°   | 58.2    | 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°    | 10646.0 | 100.0     |
| 0°-180°   | 10646.0 | 100.0     |

**Coefficient of Utilization**



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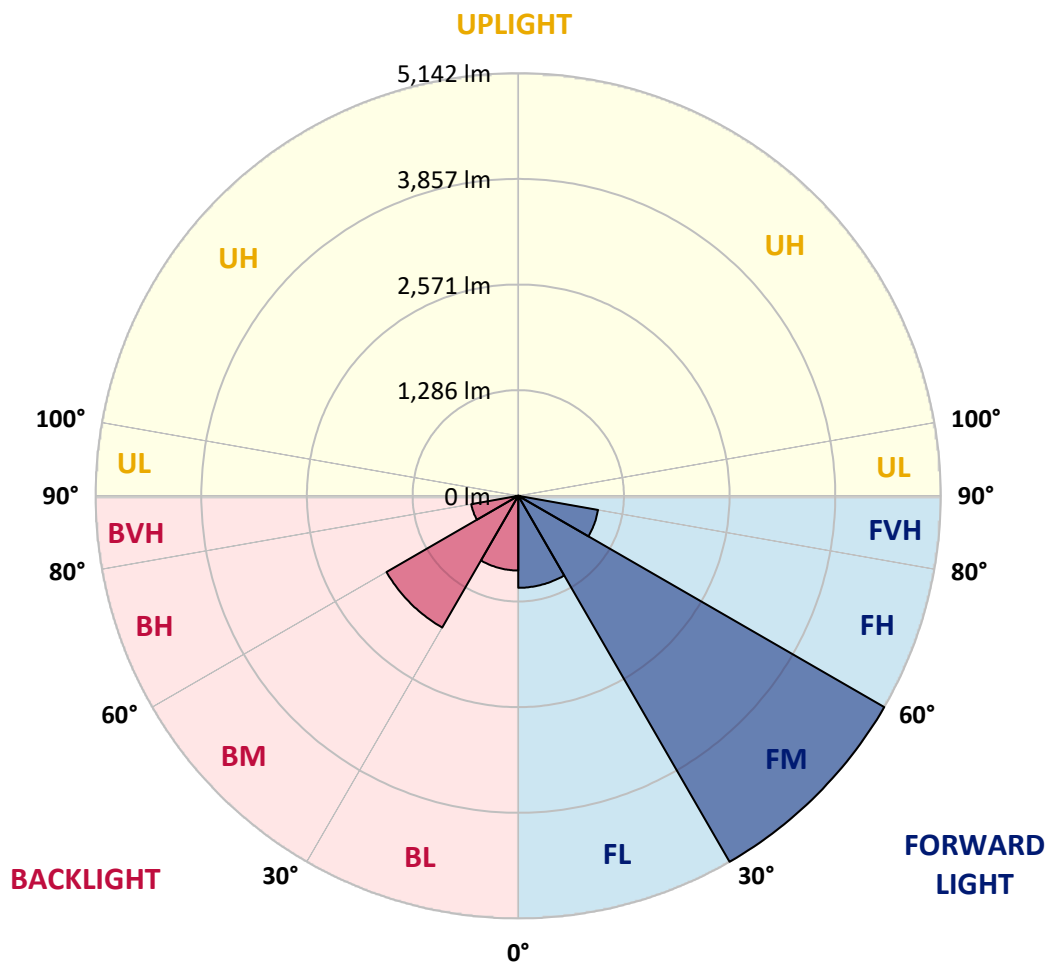
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1119.3 | 10.5      |                         |      |         |
| FM   | (30°-60°)   | 5142.3 | 48.3      |                         |      |         |
| FH   | (60°-80°)   | 986.2  | 9.3       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 908.3  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1851.4 | 17.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 580.4  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 33.5   | 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°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 |
| 2.5°  | 2130.3 | 2126.2 | 2123.5 | 2145.2 | 2137.1 | 2138.5 | 2130.3 | 2138.5 | 2143.9 | 2131.7 | 2149.3 |
| 5°    | 2126.2 | 2138.5 | 2127.6 | 2134.4 | 2152.0 | 2146.6 | 2152.0 | 2168.3 | 2164.3 | 2160.2 | 2154.8 |
| 7.5°  | 2164.3 | 2165.6 | 2173.8 | 2176.5 | 2181.9 | 2176.5 | 2184.6 | 2199.6 | 2195.5 | 2172.4 | 2175.1 |
| 10°   | 2218.6 | 2221.3 | 2222.6 | 2237.6 | 2247.1 | 2248.4 | 2238.9 | 2225.4 | 2224.0 | 2255.2 | 2233.5 |
| 12.5° | 2281.0 | 2274.2 | 2290.5 | 2296.0 | 2306.8 | 2319.0 | 2331.3 | 2302.7 | 2320.4 | 2321.8 | 2296.0 |
| 15°   | 2372.0 | 2378.8 | 2359.8 | 2359.8 | 2363.8 | 2365.2 | 2399.1 | 2385.6 | 2382.9 | 2367.9 | 2378.8 |
| 17.5° | 2507.8 | 2461.6 | 2460.2 | 2441.2 | 2438.5 | 2449.4 | 2461.6 | 2472.5 | 2509.1 | 2479.3 | 2420.9 |
| 20°   | 2606.9 | 2617.7 | 2578.4 | 2555.3 | 2559.4 | 2583.8 | 2571.6 | 2620.5 | 2646.3 | 2597.4 | 2540.4 |
| 22.5° | 2782.0 | 2745.4 | 2754.9 | 2703.3 | 2707.4 | 2733.2 | 2731.8 | 2782.0 | 2797.0 | 2719.6 | 2636.8 |
| 25°   | 2900.2 | 2890.7 | 2898.8 | 2858.1 | 2863.5 | 2883.9 | 2916.4 | 2999.3 | 2974.8 | 2889.3 | 2697.9 |
| 27.5° | 3072.6 | 3053.6 | 3046.8 | 3031.9 | 3026.4 | 3080.7 | 3118.8 | 3207.0 | 3189.4 | 3064.4 | 2806.5 |
| 30°   | 3249.1 | 3236.9 | 3243.7 | 3182.6 | 3204.3 | 3319.7 | 3330.6 | 3451.4 | 3443.3 | 3223.3 | 2927.3 |
| 32.5° | 3371.3 | 3378.1 | 3390.3 | 3356.4 | 3452.8 | 3545.1 | 3581.7 | 3718.9 | 3725.7 | 3496.2 | 3160.8 |
| 35°   | 3568.2 | 3545.1 | 3551.9 | 3591.3 | 3636.1 | 3804.4 | 3864.2 | 3955.1 | 4012.2 | 3782.7 | 3384.9 |
| 37.5° | 3691.7 | 3716.2 | 3687.7 | 3750.1 | 3866.9 | 4069.2 | 4123.5 | 4217.2 | 4276.9 | 4065.1 | 3690.4 |
| 40°   | 3884.5 | 3845.2 | 3865.5 | 3910.3 | 4029.8 | 4293.2 | 4278.3 | 4374.7 | 4393.7 | 4305.4 | 3975.5 |
| 42.5° | 4092.3 | 4073.3 | 4044.7 | 4146.6 | 4247.0 | 4438.5 | 4468.4 | 4423.6 | 4520.0 | 4540.3 | 4382.8 |
| 45°   | 4340.7 | 4363.8 | 4367.9 | 4370.6 | 4458.9 | 4625.9 | 4585.1 | 4545.8 | 4657.1 | 4805.1 | 4635.4 |
| 47.5° | 4571.5 | 4498.2 | 4551.2 | 4624.5 | 4749.4 | 4750.8 | 4798.3 | 4704.6 | 4822.7 | 4954.4 | 4863.5 |
| 50°   | 4648.9 | 4613.6 | 4684.2 | 4822.7 | 5015.5 | 5035.9 | 5041.3 | 4908.3 | 4969.4 | 5073.9 | 4942.2 |
| 52.5° | 4619.1 | 4606.8 | 4787.4 | 5002.0 | 5284.4 | 5387.6 | 5414.7 | 5250.4 | 5284.4 | 5236.8 | 5116.0 |
| 55°   | 4476.5 | 4513.2 | 4695.1 | 5132.3 | 5565.4 | 5884.5 | 5936.1 | 5728.4 | 5512.5 | 5549.1 | 5416.1 |
| 56°   | 4281.0 | 4217.2 | 4420.8 | 4984.3 | 5553.2 | 6046.1 | 6088.2 | 5828.8 | 5682.2 | 5634.7 | 5413.4 |
| 57.5° | 3632.0 | 3549.2 | 3816.6 | 4484.7 | 5245.0 | 5985.0 | 6016.2 | 5870.9 | 5653.7 | 5557.3 | 5018.2 |
| 60°   | 2126.2 | 2167.0 | 2506.4 | 3093.0 | 4046.1 | 4906.9 | 5011.5 | 5117.4 | 4972.1 | 4540.3 | 3735.2 |
| 62.5° | 1026.5 | 1000.7 | 1243.7 | 1773.2 | 2465.7 | 3132.3 | 3101.1 | 3398.5 | 3561.4 | 3226.0 | 2358.4 |
| 65°   | 537.7  | 535.0  | 678.9  | 968.1  | 1355.0 | 1645.6 | 1674.1 | 1834.3 | 2058.4 | 1661.9 | 1197.5 |
| 67.5° | 395.1  | 406.0  | 477.9  | 680.2  | 871.7  | 889.3  | 885.3  | 965.4  | 987.1  | 835.0  | 735.9  |
| 70°   | 309.6  | 315.0  | 368.0  | 517.3  | 649.0  | 581.1  | 568.9  | 578.4  | 642.2  | 669.4  | 636.8  |
| 72.5° | 224.0  | 229.5  | 274.3  | 348.9  | 406.0  | 396.5  | 404.6  | 457.6  | 536.3  | 564.8  | 530.9  |
| 75°   | 149.4  | 153.4  | 177.9  | 213.2  | 240.3  | 259.3  | 274.3  | 335.4  | 408.7  | 425.0  | 408.7  |
| 77.5° | 103.2  | 107.3  | 123.6  | 150.7  | 153.4  | 165.6  | 171.1  | 199.6  | 244.4  | 264.8  | 253.9  |
| 80°   | 58.4   | 58.4   | 66.5   | 77.4   | 95.0   | 111.3  | 114.1  | 137.1  | 157.5  | 171.1  | 173.8  |
| 82.5° | 27.2   | 28.5   | 35.3   | 47.5   | 62.5   | 77.4   | 80.1   | 95.0   | 110.0  | 123.6  | 127.6  |
| 85°   | 13.6   | 14.9   | 20.4   | 28.5   | 38.0   | 46.2   | 44.8   | 46.2   | 48.9   | 46.2   | 47.5   |
| 87.5° | 4.1    | 4.1    | 5.4    | 6.8    | 5.4    | 6.8    | 6.8    | 8.1    | 9.5    | 10.9   | 12.2   |
| 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°    | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 | 2138.5 |
| 2.5°  | 2150.7 | 2154.8 | 2127.6 | 2153.4 | 2143.9 | 2142.5 | 2161.5 | 2158.8 | 2165.6 | 2162.9 | 2146.6 |
| 5°    | 2152.0 | 2142.5 | 2171.0 | 2145.2 | 2157.5 | 2183.3 | 2165.6 | 2206.3 | 2186.0 | 2199.6 | 2169.7 |
| 7.5°  | 2194.1 | 2196.8 | 2191.4 | 2202.3 | 2196.8 | 2209.1 | 2199.6 | 2209.1 | 2192.8 | 2194.1 | 2221.3 |
| 10°   | 2230.8 | 2222.6 | 2232.1 | 2218.6 | 2228.1 | 2224.0 | 2202.3 | 2195.5 | 2200.9 | 2194.1 | 2211.8 |
| 12.5° | 2298.7 | 2283.7 | 2276.9 | 2260.7 | 2249.8 | 2209.1 | 2175.1 | 2156.1 | 2181.9 | 2186.0 | 2177.8 |
| 15°   | 2367.9 | 2369.3 | 2338.0 | 2301.4 | 2233.5 | 2172.4 | 2180.5 | 2187.3 | 2187.3 | 2198.2 | 2177.8 |
| 17.5° | 2411.4 | 2411.4 | 2382.9 | 2309.5 | 2240.3 | 2205.0 | 2196.8 | 2175.1 | 2156.1 | 2153.4 | 2152.0 |
| 20°   | 2487.4 | 2464.3 | 2399.1 | 2308.2 | 2237.6 | 2221.3 | 2160.2 | 2108.6 | 2069.2 | 2055.6 | 2054.3 |
| 22.5° | 2574.3 | 2515.9 | 2424.9 | 2310.9 | 2233.5 | 2210.4 | 2096.4 | 2019.0 | 1948.4 | 1918.5 | 1922.6 |
| 25°   | 2654.4 | 2560.7 | 2439.9 | 2298.7 | 2218.6 | 2107.2 | 1979.6 | 1872.3 | 1799.0 | 1774.6 | 1762.4 |
| 27.5° | 2710.1 | 2608.2 | 2439.9 | 2309.5 | 2162.9 | 1991.8 | 1861.5 | 1724.3 | 1660.5 | 1644.2 | 1647.0 |
| 30°   | 2784.7 | 2668.0 | 2482.0 | 2286.5 | 2051.6 | 1842.5 | 1686.3 | 1596.7 | 1558.7 | 1545.1 | 1554.6 |
| 32.5° | 2959.9 | 2824.1 | 2540.4 | 2230.8 | 1919.9 | 1693.1 | 1566.8 | 1516.6 | 1460.9 | 1433.8 | 1424.3 |
| 35°   | 3150.0 | 2972.1 | 2597.4 | 2137.1 | 1771.9 | 1557.3 | 1478.6 | 1432.4 | 1365.9 | 1336.0 | 1341.5 |
| 37.5° | 3418.8 | 3162.2 | 2601.5 | 1982.3 | 1611.7 | 1481.3 | 1409.3 | 1337.4 | 1283.1 | 1236.9 | 1223.3 |
| 40°   | 3781.3 | 3421.5 | 2591.9 | 1819.4 | 1482.7 | 1391.7 | 1338.7 | 1249.1 | 1188.0 | 1155.4 | 1162.2 |
| 42.5° | 4100.4 | 3725.7 | 2552.6 | 1634.7 | 1365.9 | 1330.6 | 1270.9 | 1182.6 | 1122.9 | 1088.9 | 1086.2 |
| 45°   | 4369.2 | 3949.7 | 2477.9 | 1477.2 | 1268.1 | 1262.7 | 1193.5 | 1125.6 | 1078.1 | 1046.8 | 1060.4 |
| 47.5° | 4617.7 | 4130.3 | 2365.2 | 1319.7 | 1178.5 | 1189.4 | 1122.9 | 1080.8 | 1050.9 | 1022.4 | 1021.0 |
| 50°   | 4707.3 | 4127.6 | 2266.1 | 1189.4 | 1106.6 | 1101.1 | 1098.4 | 1053.6 | 1022.4 | 997.9  | 1008.8 |
| 52.5° | 4856.7 | 4173.7 | 2158.8 | 1099.8 | 1041.4 | 1042.8 | 1052.3 | 1019.7 | 984.4  | 969.4  | 983.0  |
| 55°   | 5071.2 | 4180.5 | 1922.6 | 995.2  | 987.1  | 996.6  | 996.6  | 974.9  | 945.0  | 932.8  | 926.0  |
| 56°   | 4896.1 | 3978.2 | 1724.3 | 968.1  | 959.9  | 959.9  | 985.7  | 961.3  | 924.6  | 915.1  | 907.0  |
| 57.5° | 4515.9 | 3485.3 | 1443.3 | 935.5  | 923.3  | 942.3  | 955.9  | 930.1  | 896.1  | 882.5  | 890.7  |
| 60°   | 3114.7 | 2358.4 | 1084.8 | 864.9  | 864.9  | 896.1  | 907.0  | 869.0  | 854.0  | 852.7  | 841.8  |
| 62.5° | 1818.0 | 1374.0 | 848.6  | 801.1  | 803.8  | 829.6  | 837.7  | 816.0  | 797.0  | 820.1  | 830.9  |
| 65°   | 964.0  | 820.1  | 727.8  | 733.2  | 734.5  | 754.9  | 790.2  | 788.9  | 787.5  | 794.3  | 795.6  |
| 67.5° | 697.9  | 681.6  | 661.2  | 655.8  | 658.5  | 673.4  | 708.7  | 735.9  | 734.5  | 718.3  | 706.0  |
| 70°   | 621.8  | 598.8  | 586.5  | 587.9  | 577.0  | 594.7  | 623.2  | 640.9  | 609.6  | 590.6  | 582.5  |
| 72.5° | 517.3  | 510.5  | 502.4  | 503.7  | 482.0  | 477.9  | 445.3  | 445.3  | 437.2  | 431.8  | 441.3  |
| 75°   | 395.1  | 392.4  | 396.5  | 389.7  | 366.6  | 342.2  | 323.1  | 305.5  | 278.3  | 267.5  | 262.0  |
| 77.5° | 249.8  | 258.0  | 267.5  | 252.5  | 243.0  | 225.4  | 206.4  | 188.7  | 167.0  | 154.8  | 154.8  |
| 80°   | 169.7  | 176.5  | 183.3  | 180.6  | 169.7  | 153.4  | 138.5  | 119.5  | 104.5  | 95.0   | 93.7   |
| 82.5° | 129.0  | 134.4  | 143.9  | 133.1  | 122.2  | 108.6  | 96.4   | 82.8   | 69.2   | 58.4   | 58.4   |
| 85°   | 46.2   | 53.0   | 58.4   | 63.8   | 67.9   | 69.2   | 59.7   | 48.9   | 39.4   | 31.2   | 29.9   |
| 87.5° | 12.2   | 13.6   | 14.9   | 13.6   | 13.6   | 13.6   | 14.9   | 13.6   | 12.2   | 9.5    | 9.5    |
| 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)