

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: P457777

Luminaire Tested: **GLAN-SA9A-827-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30650 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 274  
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

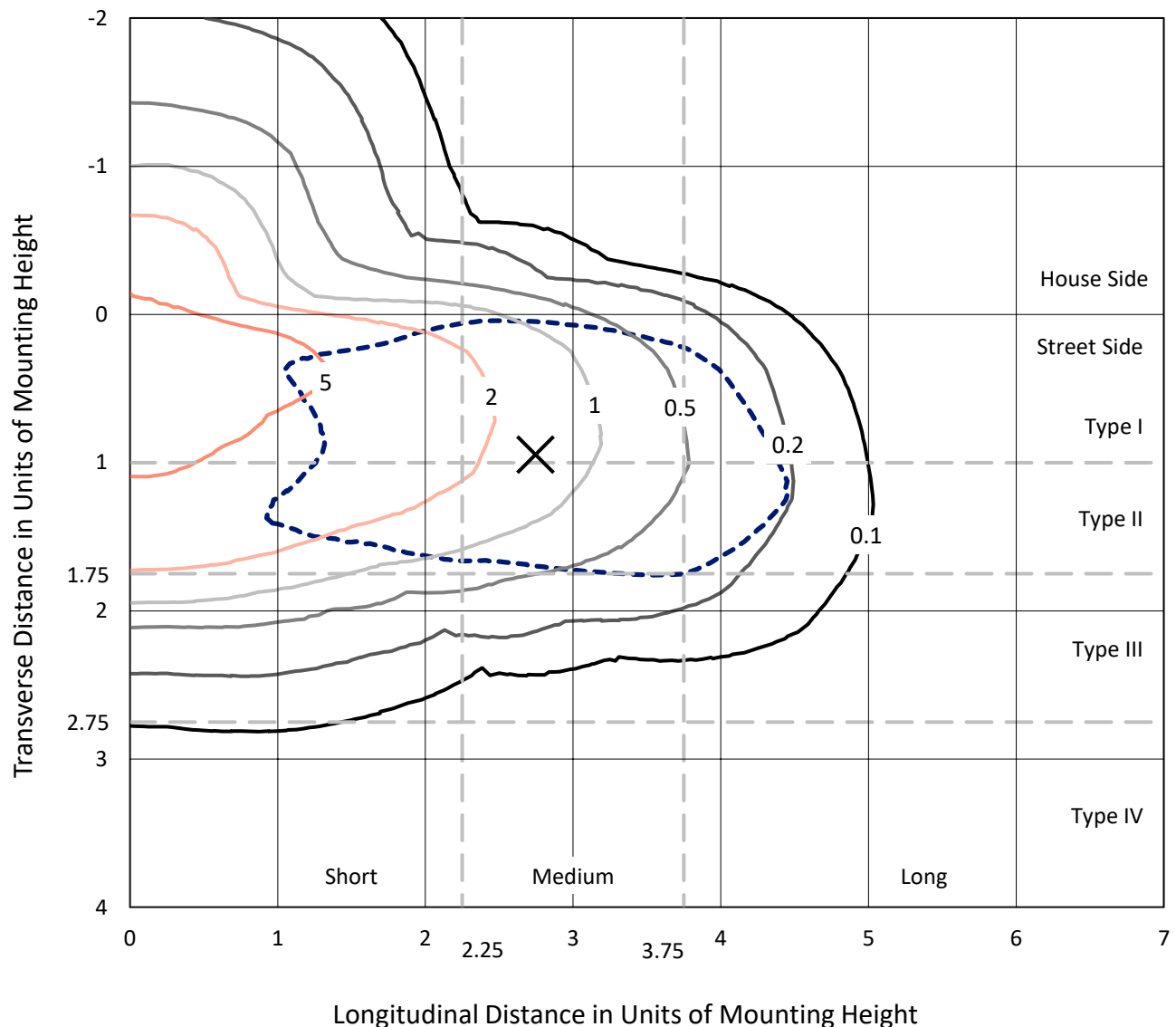


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

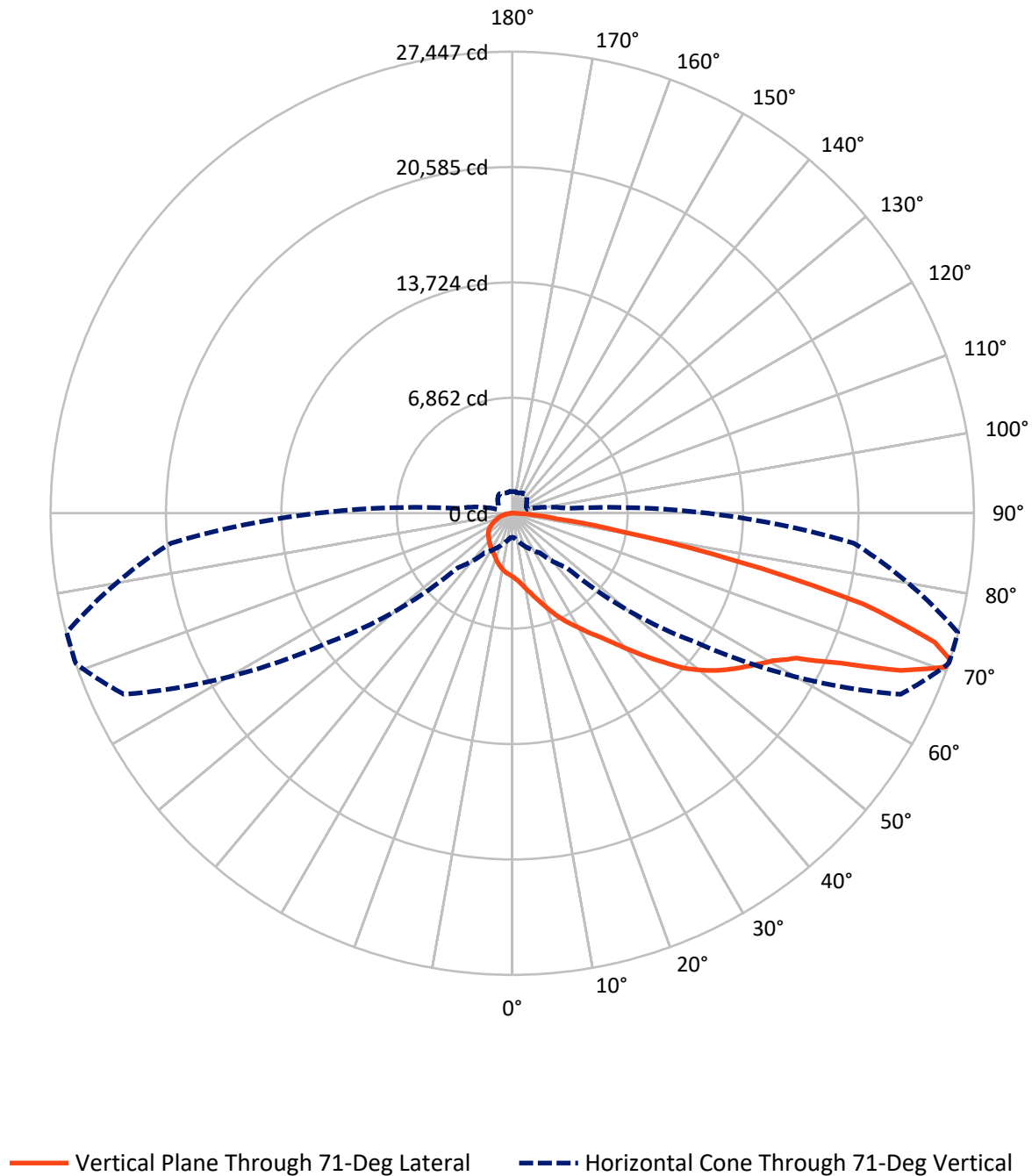


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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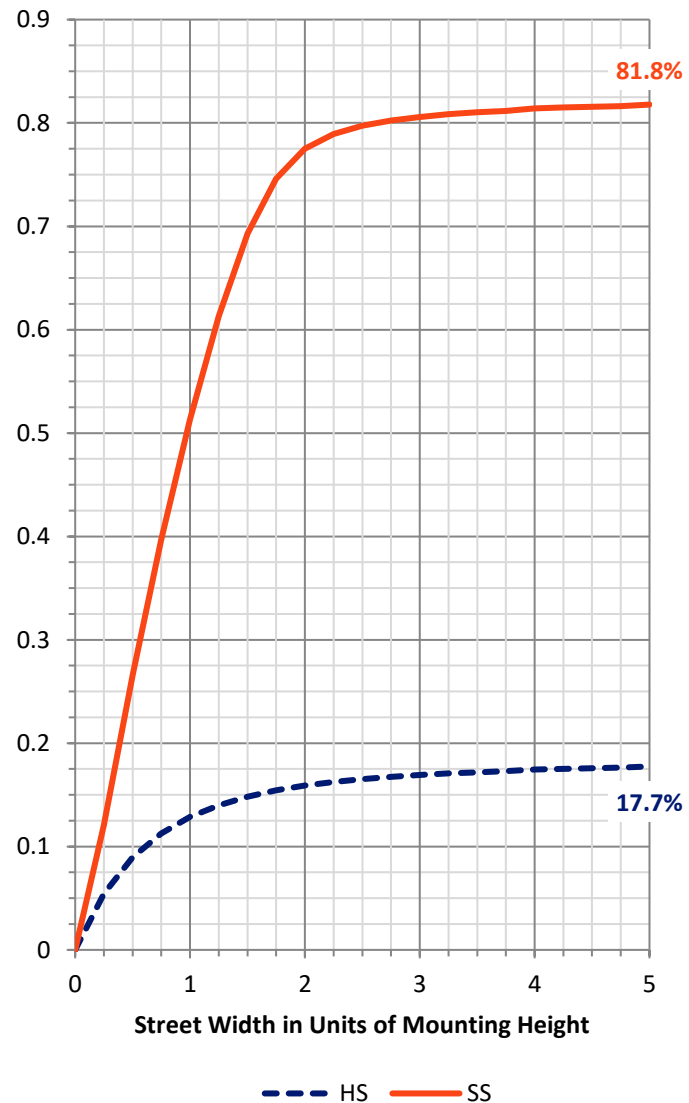
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5512.3   | 0.0    | 5512.3  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 25137.7  | 0.0    | 25137.7 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 30650.0  | 0.0    | 30650.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.7   | 1.2       |
| 10°-20°   | 1227.1  | 4.0       |
| 20°-30°   | 2144.5  | 7.0       |
| 30°-40°   | 3189.6  | 10.4      |
| 40°-50°   | 4699.5  | 15.3      |
| 50°-60°   | 6579.4  | 21.5      |
| 60°-70°   | 7358.8  | 24.0      |
| 70°-80°   | 4495.1  | 14.7      |
| 80°-90°   | 578.2   | 1.9       |
| 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°    | 30650.0 | 100.0     |
| 0°-180°   | 30650.0 | 100.0     |

**Coefficient of Utilization**



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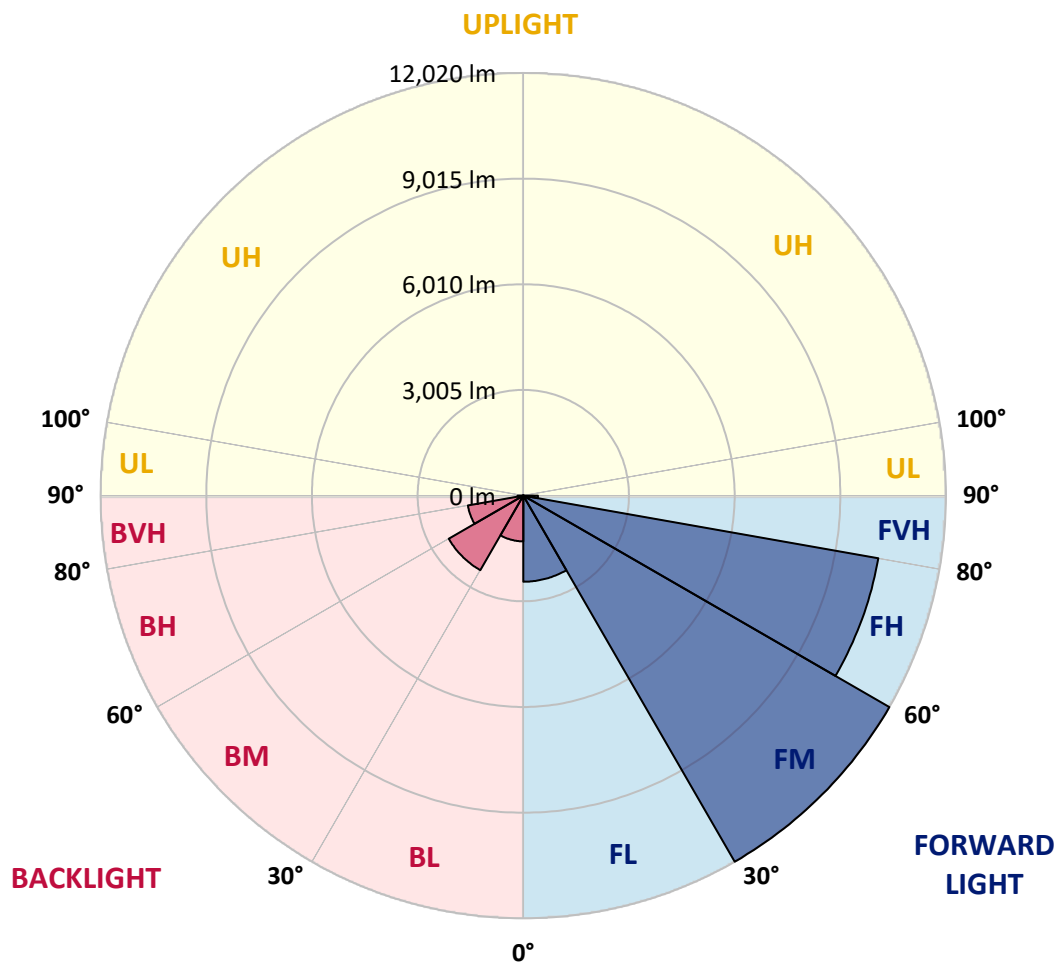
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2448.9  | 8.0       |                         |      |          |
| FM   | (30°-60°)   | 12020.3 | 39.2      |                         |      |          |
| FH   | (60°-80°)   | 10252.3 | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 416.1   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1300.3  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2448.2  | 8.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1601.6  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 162.2   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  | 3761.7  |
| 2.5°  | 4176.1  | 4155.9  | 4157.6  | 4128.9  | 4091.9  | 4051.4  | 3994.2  | 3943.6  | 3903.2  | 3879.6  | 3810.5  |
| 5°    | 4627.6  | 4607.3  | 4582.1  | 4519.7  | 4492.8  | 4393.4  | 4267.1  | 4152.5  | 4064.9  | 4016.1  | 3877.9  |
| 7.5°  | 4993.1  | 4988.1  | 4981.3  | 4945.9  | 4876.9  | 4738.7  | 4630.9  | 4432.1  | 4302.4  | 4209.8  | 3973.9  |
| 10°   | 5218.9  | 5227.3  | 5232.3  | 5239.1  | 5210.4  | 5138.0  | 4989.7  | 4738.7  | 4573.7  | 4455.7  | 4098.6  |
| 12.5° | 5333.4  | 5341.8  | 5370.5  | 5432.8  | 5471.5  | 5463.1  | 5341.8  | 5095.9  | 4868.5  | 4713.5  | 4231.7  |
| 15°   | 5404.2  | 5417.6  | 5468.2  | 5550.7  | 5680.4  | 5763.0  | 5704.0  | 5476.6  | 5227.3  | 5043.7  | 4390.0  |
| 17.5° | 5481.6  | 5496.8  | 5552.4  | 5670.3  | 5840.5  | 6019.0  | 6083.0  | 5887.6  | 5616.4  | 5397.4  | 4566.9  |
| 20°   | 5525.4  | 5545.7  | 5624.8  | 5779.8  | 5978.6  | 6238.0  | 6450.3  | 6347.5  | 6051.0  | 5808.5  | 4770.8  |
| 22.5° | 5596.2  | 5613.0  | 5680.4  | 5845.5  | 6083.0  | 6408.2  | 6817.5  | 6795.6  | 6534.5  | 6221.2  | 4994.8  |
| 25°   | 5788.2  | 5815.2  | 5848.9  | 5948.3  | 6177.4  | 6581.7  | 7122.4  | 7274.0  | 7002.8  | 6652.4  | 5200.3  |
| 27.5° | 6150.4  | 6172.3  | 6170.6  | 6184.1  | 6313.8  | 6731.6  | 7386.9  | 7747.4  | 7467.8  | 7088.7  | 5399.1  |
| 30°   | 6563.2  | 6571.6  | 6578.3  | 6548.0  | 6576.6  | 6884.9  | 7629.5  | 8215.7  | 7936.1  | 7536.8  | 5572.6  |
| 32.5° | 7065.2  | 7082.0  | 7024.7  | 6947.2  | 6923.7  | 7112.3  | 7830.0  | 8684.0  | 8490.3  | 7991.7  | 5744.4  |
| 35°   | 7658.1  | 7701.9  | 7585.7  | 7449.2  | 7353.2  | 7439.1  | 8099.5  | 9162.5  | 9058.0  | 8572.9  | 5971.9  |
| 37.5° | 8335.3  | 8389.2  | 8281.4  | 8013.6  | 7877.1  | 7900.7  | 8451.6  | 9753.8  | 9775.7  | 9234.9  | 6310.5  |
| 40°   | 8889.6  | 8960.3  | 8963.7  | 8584.7  | 8377.5  | 8404.4  | 8898.0  | 10390.5 | 10641.5 | 10053.6 | 6709.7  |
| 42.5° | 9255.1  | 9324.2  | 9396.6  | 9174.3  | 8956.9  | 9110.2  | 9418.5  | 11081.2 | 11615.2 | 11047.5 | 7267.3  |
| 45°   | 9656.1  | 9718.4  | 9758.8  | 9657.7  | 9536.4  | 9934.0  | 10046.9 | 11815.7 | 12652.9 | 12157.7 | 7877.1  |
| 47.5° | 10121.0 | 10190.1 | 10228.8 | 10132.8 | 10087.3 | 10656.7 | 10724.1 | 12501.3 | 13761.4 | 13235.8 | 8551.0  |
| 50°   | 10740.9 | 10793.1 | 10772.9 | 10712.3 | 10702.2 | 11210.9 | 11374.3 | 13143.1 | 14676.1 | 14396.5 | 9250.1  |
| 52.5° | 11512.5 | 11574.8 | 11596.7 | 11510.8 | 11472.0 | 11606.8 | 11898.2 | 13727.7 | 15508.3 | 15393.8 | 9996.3  |
| 55°   | 11979.1 | 12078.5 | 12412.0 | 12546.8 | 12639.5 | 12118.9 | 12462.6 | 14372.9 | 16254.6 | 16444.9 | 10798.2 |
| 57.5° | 11381.1 | 11509.1 | 12255.4 | 12929.2 | 13800.1 | 13399.2 | 13262.8 | 15046.7 | 17000.9 | 17464.1 | 11758.4 |
| 60°   | 9922.2  | 9950.9  | 10912.8 | 12154.3 | 13906.3 | 15045.0 | 14932.2 | 16118.1 | 17809.5 | 18491.7 | 13023.5 |
| 62.5° | 6883.2  | 6943.9  | 8081.0  | 10062.0 | 12595.7 | 15638.0 | 17772.4 | 17967.8 | 18968.5 | 20029.7 | 14878.3 |
| 65°   | 3549.4  | 3470.2  | 4506.3  | 6323.9  | 9496.0  | 14229.7 | 20073.5 | 21369.0 | 21481.9 | 22435.3 | 17489.4 |
| 67.5° | 2184.9  | 2220.3  | 2705.4  | 3692.6  | 5614.7  | 10341.7 | 19832.6 | 25524.9 | 24930.2 | 25388.4 | 19913.5 |
| 70°   | 1640.8  | 1684.6  | 2018.1  | 2526.9  | 3423.1  | 5912.9  | 15949.7 | 26532.2 | 27362.7 | 27244.8 | 20651.4 |
| 71°   | 1426.8  | 1472.3  | 1819.4  | 2299.5  | 2875.6  | 4563.5  | 13438.0 | 25477.7 | 27447.0 | 27426.8 | 20373.4 |
| 72.5° | 1216.3  | 1244.9  | 1516.1  | 1947.4  | 2424.1  | 3199.0  | 10095.7 | 22849.7 | 26276.2 | 26948.3 | 19381.2 |
| 75°   | 955.2   | 977.1   | 1098.4  | 1485.8  | 1908.6  | 1964.2  | 5417.6  | 17130.6 | 21581.2 | 22861.5 | 16135.0 |
| 77.5° | 778.3   | 793.4   | 855.8   | 1103.4  | 1472.3  | 1391.5  | 2841.9  | 11150.3 | 13520.5 | 14809.2 | 9504.4  |
| 80°   | 618.2   | 635.1   | 672.2   | 748.0   | 1103.4  | 992.2   | 1356.1  | 5650.1  | 6531.1  | 6517.7  | 3793.7  |
| 82.5° | 480.1   | 485.2   | 529.0   | 549.2   | 754.7   | 704.2   | 734.5   | 2392.1  | 2649.9  | 2737.5  | 1369.6  |
| 85°   | 303.2   | 318.4   | 468.3   | 421.1   | 451.5   | 412.7   | 362.2   | 950.1   | 1170.8  | 1153.9  | 547.5   |
| 87.5° | 92.7    | 97.7    | 158.4   | 178.6   | 200.5   | 180.3   | 133.1   | 279.6   | 342.0   | 370.6   | 136.5   |
| 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°    | 3761.7  | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 | 3761.7 |
| 2.5°  | 3783.6  | 3765.1 | 3699.4 | 3645.4 | 3594.9 | 3539.3 | 3492.1 | 3478.7 | 3466.9 | 3461.8 | 3460.1 |
| 5°    | 3819.0  | 3763.4 | 3633.7 | 3527.5 | 3443.3 | 3365.8 | 3317.0 | 3295.1 | 3273.2 | 3273.2 | 3279.9 |
| 7.5°  | 3869.5  | 3768.4 | 3568.0 | 3409.6 | 3303.5 | 3231.0 | 3195.7 | 3192.3 | 3197.3 | 3202.4 | 3204.1 |
| 10°   | 3925.1  | 3765.1 | 3471.9 | 3274.8 | 3180.5 | 3146.8 | 3148.5 | 3177.1 | 3204.1 | 3224.3 | 3227.7 |
| 12.5° | 3979.0  | 3744.8 | 3359.1 | 3148.5 | 3087.8 | 3094.6 | 3141.8 | 3205.8 | 3258.0 | 3286.6 | 3288.3 |
| 15°   | 4039.6  | 3712.8 | 3222.6 | 3028.9 | 3008.7 | 3060.9 | 3148.5 | 3246.2 | 3325.4 | 3372.5 | 3377.6 |
| 17.5° | 4090.2  | 3658.9 | 3079.4 | 2912.7 | 2937.9 | 3033.9 | 3155.2 | 3281.6 | 3377.6 | 3436.6 | 3446.7 |
| 20°   | 4147.5  | 3589.9 | 2931.2 | 2801.5 | 2873.9 | 3003.6 | 3141.8 | 3278.2 | 3377.6 | 3434.9 | 3448.3 |
| 22.5° | 4192.9  | 3492.1 | 2789.7 | 2710.5 | 2816.6 | 2966.6 | 3096.3 | 3205.8 | 3286.6 | 3317.0 | 3337.2 |
| 25°   | 4211.5  | 3369.2 | 2656.6 | 2636.4 | 2771.1 | 2905.9 | 2993.5 | 3055.8 | 3081.1 | 3077.7 | 3086.2 |
| 27.5° | 4201.4  | 3227.7 | 2542.0 | 2577.4 | 2713.9 | 2811.6 | 2855.4 | 2850.3 | 2804.8 | 2762.7 | 2782.9 |
| 30°   | 4159.2  | 3059.2 | 2446.0 | 2516.8 | 2639.7 | 2693.7 | 2686.9 | 2621.2 | 2535.3 | 2456.1 | 2461.2 |
| 32.5° | 4083.4  | 2877.3 | 2356.7 | 2447.7 | 2535.3 | 2558.9 | 2513.4 | 2427.5 | 2304.5 | 2201.8 | 2186.6 |
| 35°   | 4019.4  | 2703.8 | 2277.6 | 2368.5 | 2430.9 | 2419.1 | 2375.3 | 2264.1 | 2152.9 | 2061.9 | 2046.8 |
| 37.5° | 4009.3  | 2555.5 | 2201.8 | 2279.2 | 2314.6 | 2297.8 | 2243.9 | 2149.5 | 2109.1 | 2040.0 | 2031.6 |
| 40°   | 4063.2  | 2451.1 | 2124.3 | 2184.9 | 2201.8 | 2188.3 | 2129.3 | 2075.4 | 2112.5 | 2095.6 | 2095.6 |
| 42.5° | 4209.8  | 2395.5 | 2055.2 | 2090.6 | 2104.0 | 2114.2 | 2072.0 | 2026.6 | 2072.0 | 1994.6 | 1969.3 |
| 45°   | 4442.3  | 2397.2 | 1992.9 | 1997.9 | 2038.4 | 2073.7 | 2045.1 | 1977.7 | 1954.1 | 1799.1 | 1768.8 |
| 47.5° | 4784.2  | 2454.4 | 1942.3 | 1910.3 | 1982.8 | 2041.7 | 2001.3 | 1903.6 | 1799.1 | 1696.4 | 1677.8 |
| 50°   | 5183.5  | 2557.2 | 1896.8 | 1819.4 | 1908.6 | 2001.3 | 1971.0 | 1856.4 | 1748.6 | 1686.3 | 1674.5 |
| 52.5° | 5626.5  | 2686.9 | 1841.3 | 1718.3 | 1817.7 | 1982.8 | 1977.7 | 1849.7 | 1701.4 | 1659.3 | 1649.2 |
| 55°   | 6174.0  | 2814.9 | 1772.2 | 1600.4 | 1736.8 | 1967.6 | 1959.2 | 1794.1 | 1691.3 | 1661.0 | 1657.6 |
| 57.5° | 6810.8  | 3000.2 | 1672.8 | 1480.8 | 1644.2 | 1905.3 | 1886.7 | 1760.4 | 1657.6 | 1635.7 | 1634.0 |
| 60°   | 7836.7  | 3288.3 | 1531.3 | 1371.3 | 1549.8 | 1795.8 | 1819.4 | 1703.1 | 1603.7 | 1598.7 | 1597.0 |
| 62.5° | 9186.1  | 3692.6 | 1384.7 | 1258.4 | 1440.3 | 1654.3 | 1721.6 | 1625.6 | 1546.5 | 1571.7 | 1575.1 |
| 65°   | 11049.2 | 4032.9 | 1233.1 | 1162.4 | 1319.0 | 1517.8 | 1629.0 | 1553.2 | 1482.4 | 1531.3 | 1531.3 |
| 67.5° | 12263.8 | 4039.6 | 1095.0 | 1063.0 | 1196.1 | 1403.3 | 1531.3 | 1467.3 | 1399.9 | 1482.4 | 1485.8 |
| 70°   | 12011.1 | 3539.3 | 980.4  | 958.5  | 1076.5 | 1280.3 | 1423.5 | 1372.9 | 1295.4 | 1369.6 | 1342.6 |
| 71°   | 11603.4 | 3261.4 | 934.9  | 918.1  | 1029.3 | 1221.3 | 1372.9 | 1330.8 | 1253.3 | 1302.2 | 1287.0 |
| 72.5° | 10953.2 | 2831.8 | 860.8  | 864.2  | 958.5  | 1147.2 | 1302.2 | 1258.4 | 1180.9 | 1207.8 | 1202.8 |
| 75°   | 9258.5  | 2473.0 | 736.2  | 751.3  | 823.8  | 1020.9 | 1160.7 | 1127.0 | 1047.8 | 1047.8 | 1042.8 |
| 77.5° | 5788.2  | 1728.4 | 611.5  | 619.9  | 699.1  | 874.3  | 997.3  | 968.6  | 892.8  | 867.6  | 860.8  |
| 80°   | 2159.6  | 892.8  | 478.4  | 488.5  | 537.4  | 689.0  | 825.4  | 798.5  | 721.0  | 692.4  | 665.4  |
| 82.5° | 817.0   | 448.1  | 352.1  | 343.7  | 395.9  | 525.6  | 646.9  | 614.9  | 554.2  | 485.2  | 464.9  |
| 85°   | 308.3   | 222.4  | 215.6  | 208.9  | 232.5  | 311.6  | 400.9  | 394.2  | 330.2  | 281.3  | 276.3  |
| 87.5° | 80.9    | 72.4   | 84.2   | 62.3   | 65.7   | 59.0   | 60.6   | 25.3   | 11.8   | 5.1    | 3.4    |
| 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)