

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: P527850

Luminaire Tested: **GLAN-SA2D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527850  
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-SA2D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA 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: 9592 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 125  
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



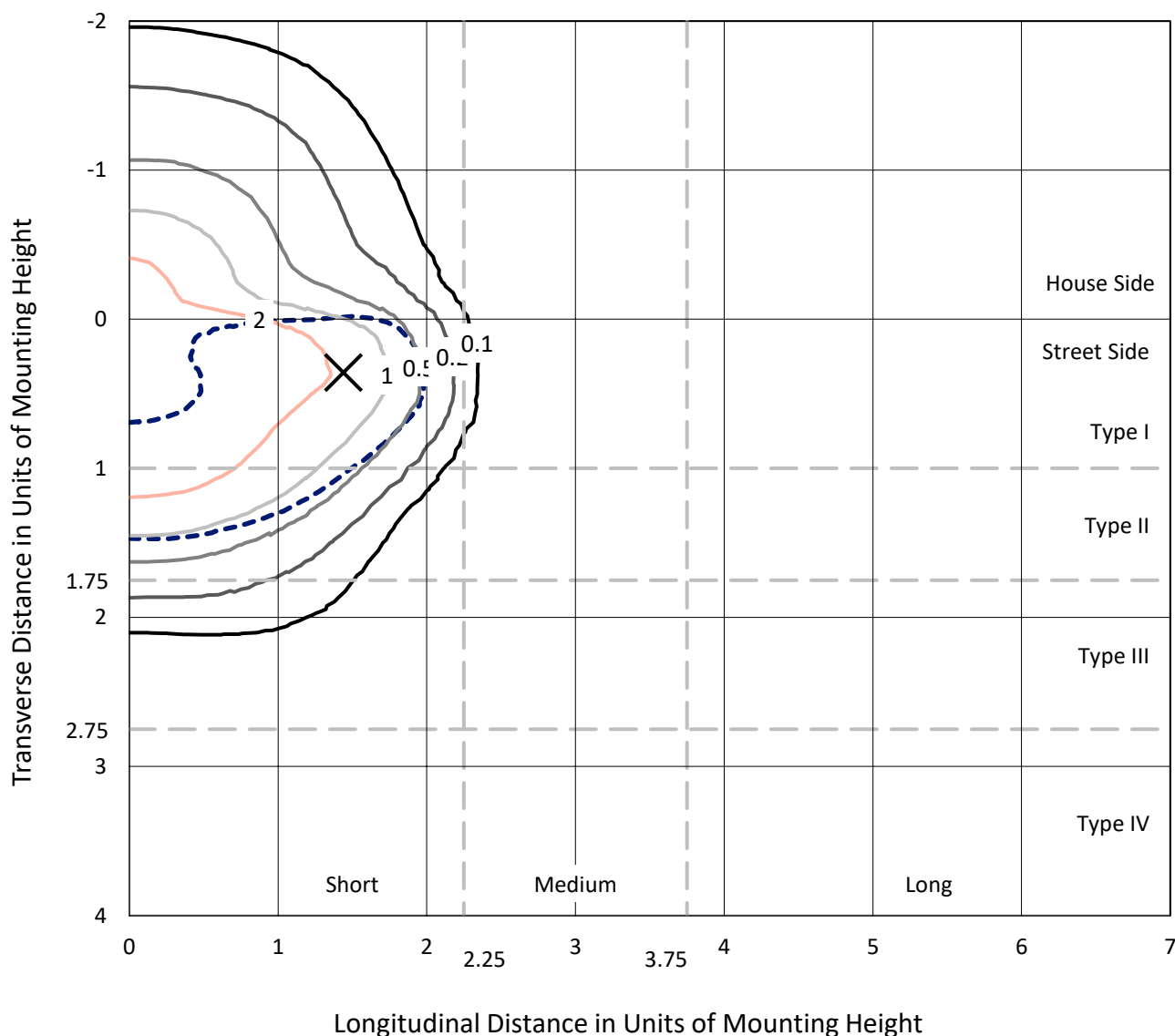
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

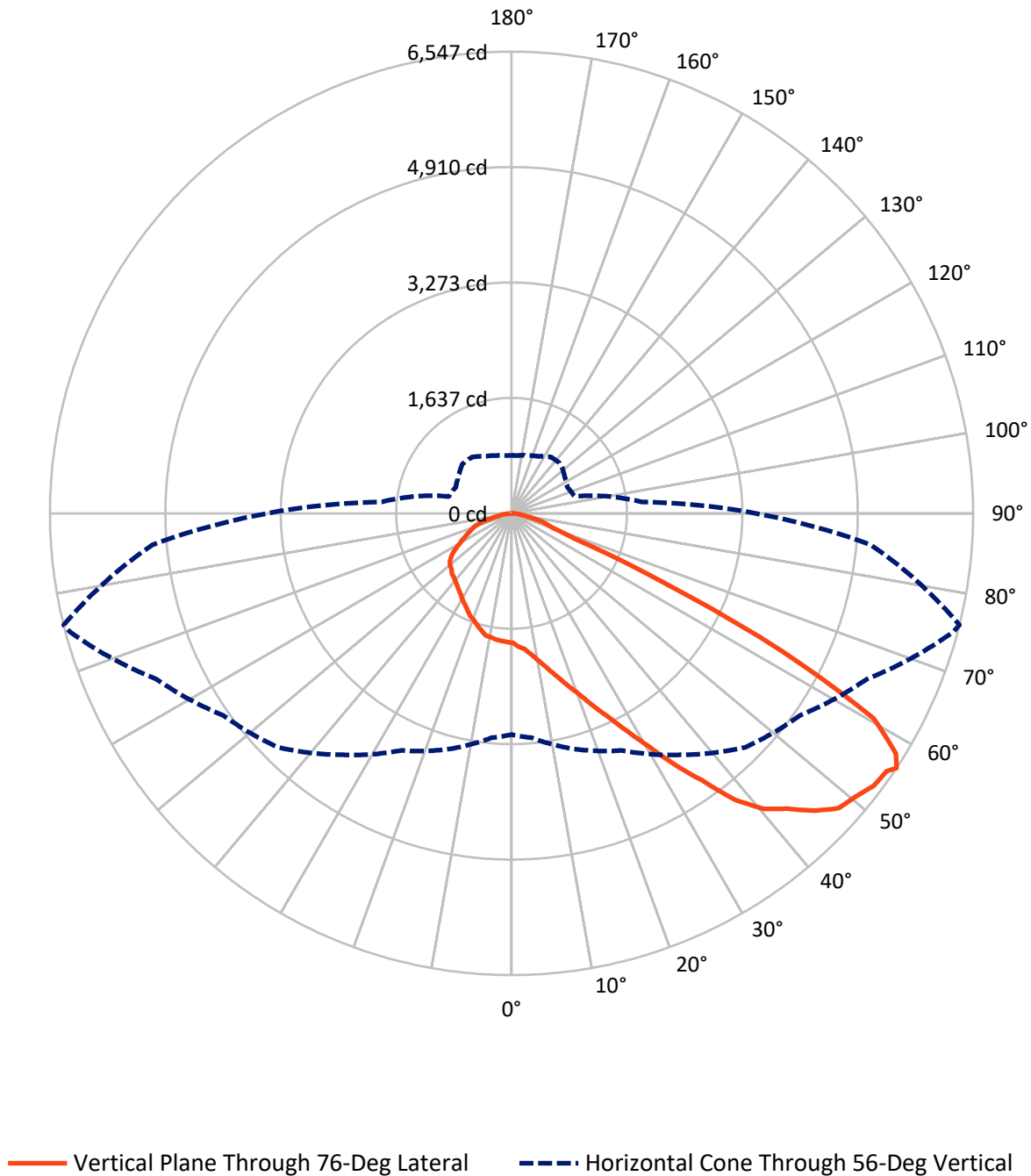


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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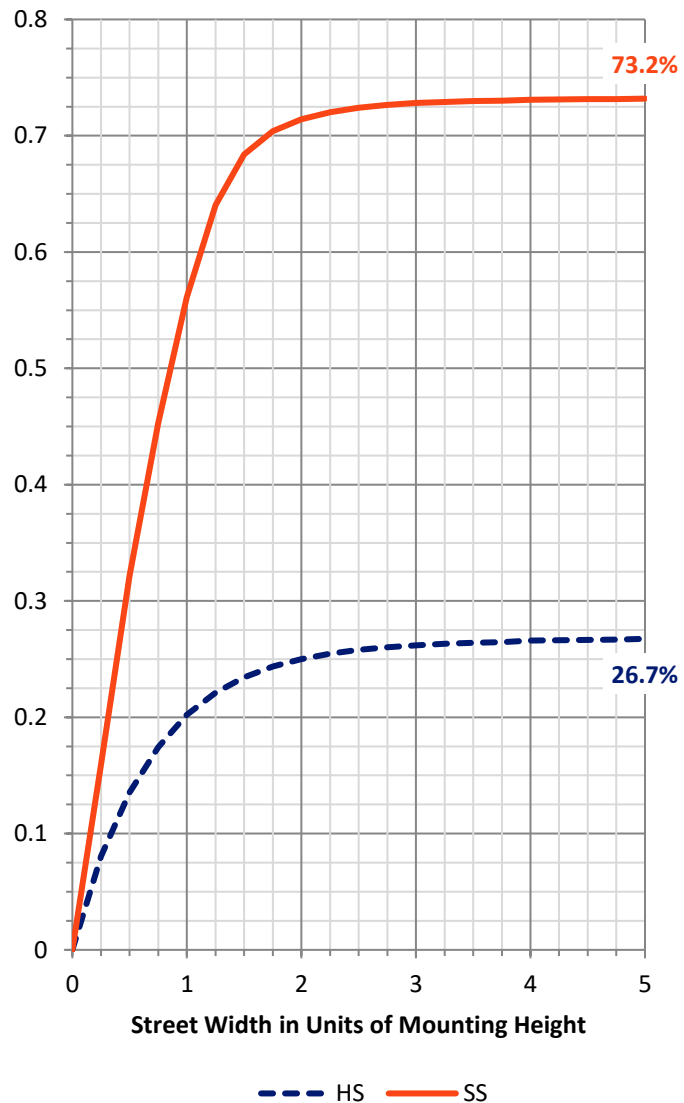
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2579.0   | 0.0    | 2579.0 |
|                    | % Fixture | 26.9     | 0.0    | 26.9   |
| <b>Street Side</b> | Lumens    | 7013.0   | 0.0    | 7013.0 |
|                    | % Fixture | 73.1     | 0.0    | 73.1   |
| <b>Total</b>       | Lumens    | 9592.0   | 0.0    | 9592.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 182.0  | 1.9       |
| 10°-20°   | 571.7  | 6.0       |
| 20°-30°   | 999.9  | 10.4      |
| 30°-40°   | 1565.6 | 16.3      |
| 40°-50°   | 2277.4 | 23.7      |
| 50°-60°   | 2503.1 | 26.1      |
| 60°-70°   | 1117.3 | 11.6      |
| 70°-80°   | 322.7  | 3.4       |
| 80°-90°   | 52.3   | 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°    | 9592.0 | 100.0     |
| 0°-180°   | 9592.0 | 100.0     |

**Coefficient of Utilization**



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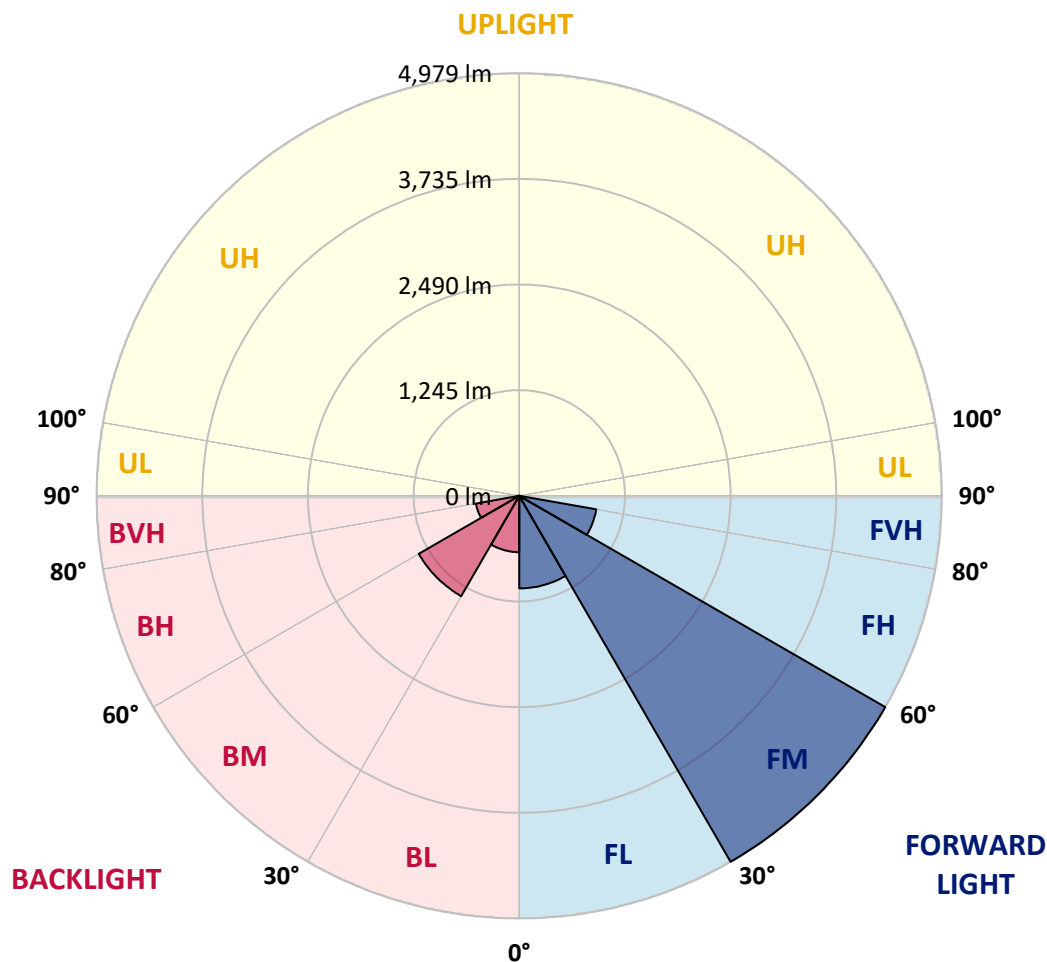
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1090.0 | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 4979.4 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 921.1  | 9.6       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 22.5   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 663.6  | 6.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1366.7 | 14.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 518.9  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 29.8   | 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°    | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 |
| 2.5°  | 2021.8 | 1989.5 | 1987.0 | 1978.3 | 1983.3 | 1960.9 | 1937.3 | 1906.2 | 1873.9 | 1893.7 | 1846.5 |
| 5°    | 2163.6 | 2120.1 | 2137.5 | 2107.6 | 2111.3 | 2081.5 | 2033.0 | 1997.0 | 1957.2 | 1933.5 | 1900.0 |
| 7.5°  | 2213.3 | 2217.0 | 2229.5 | 2224.5 | 2199.6 | 2199.6 | 2167.3 | 2103.9 | 2034.3 | 2020.6 | 1964.6 |
| 10°   | 2280.5 | 2281.7 | 2268.0 | 2271.8 | 2306.6 | 2290.4 | 2261.8 | 2234.4 | 2144.9 | 2128.8 | 2029.3 |
| 12.5° | 2304.1 | 2281.7 | 2304.1 | 2324.0 | 2365.0 | 2387.4 | 2381.2 | 2361.3 | 2265.5 | 2254.3 | 2108.9 |
| 15°   | 2307.8 | 2294.1 | 2312.8 | 2357.5 | 2393.6 | 2488.1 | 2535.4 | 2521.7 | 2394.9 | 2396.1 | 2198.4 |
| 17.5° | 2290.4 | 2309.1 | 2316.5 | 2355.1 | 2438.4 | 2526.7 | 2663.4 | 2682.1 | 2577.6 | 2561.5 | 2311.5 |
| 20°   | 2314.0 | 2300.3 | 2310.3 | 2345.1 | 2455.8 | 2593.8 | 2772.9 | 2896.0 | 2749.2 | 2738.0 | 2428.4 |
| 22.5° | 2404.8 | 2386.1 | 2383.7 | 2406.0 | 2485.6 | 2628.6 | 2888.5 | 3109.8 | 2958.1 | 2964.3 | 2573.9 |
| 25°   | 2475.7 | 2485.6 | 2476.9 | 2475.7 | 2525.4 | 2680.8 | 3041.4 | 3364.7 | 3241.6 | 3205.6 | 2745.5 |
| 27.5° | 2597.5 | 2621.2 | 2603.7 | 2627.4 | 2616.2 | 2759.2 | 3150.9 | 3647.0 | 3547.5 | 3499.0 | 2900.9 |
| 30°   | 2766.6 | 2779.1 | 2762.9 | 2762.9 | 2729.3 | 2868.6 | 3250.3 | 3941.7 | 3900.6 | 3834.7 | 3083.7 |
| 32.5° | 2989.2 | 3007.9 | 2975.5 | 2956.9 | 2951.9 | 3031.5 | 3429.4 | 4232.6 | 4302.3 | 4246.3 | 3326.2 |
| 35°   | 3283.9 | 3272.7 | 3234.2 | 3216.8 | 3149.6 | 3281.4 | 3695.5 | 4567.1 | 4749.9 | 4650.4 | 3619.6 |
| 37.5° | 3543.8 | 3526.4 | 3523.9 | 3426.9 | 3443.1 | 3551.2 | 3921.8 | 4820.8 | 5183.9 | 5155.3 | 3929.2 |
| 40°   | 3786.3 | 3802.4 | 3828.5 | 3773.8 | 3748.9 | 3868.3 | 4185.4 | 5014.8 | 5520.8 | 5509.6 | 4168.0 |
| 42.5° | 4046.1 | 4031.2 | 4077.2 | 4031.2 | 3993.9 | 4163.0 | 4471.4 | 5149.1 | 5816.8 | 5724.8 | 4417.9 |
| 45°   | 4422.9 | 4375.6 | 4391.8 | 4395.5 | 4368.2 | 4430.3 | 4589.5 | 5246.0 | 6024.4 | 6014.5 | 4600.7 |
| 47.5° | 4737.5 | 4738.7 | 4711.4 | 4690.2 | 4606.9 | 4669.1 | 4721.3 | 5307.0 | 6263.2 | 6247.0 | 4671.6 |
| 50°   | 4854.4 | 4838.2 | 4917.8 | 4963.8 | 4968.8 | 4841.9 | 4824.5 | 5340.5 | 6388.8 | 6317.9 | 4742.5 |
| 52.5° | 4434.1 | 4449.0 | 4574.6 | 4848.1 | 5006.1 | 5019.7 | 4945.1 | 5410.2 | 6439.7 | 6424.8 | 4799.6 |
| 55°   | 3568.7 | 3640.8 | 3847.2 | 4163.0 | 4537.3 | 4948.9 | 5075.7 | 5482.3 | 6467.1 | 6454.7 | 5053.3 |
| 56°   | 3137.2 | 3193.1 | 3461.7 | 3709.2 | 4179.2 | 4691.5 | 4993.6 | 5559.4 | 6488.2 | 6546.7 | 5113.0 |
| 57.5° | 2525.4 | 2590.1 | 2782.8 | 3063.8 | 3618.4 | 4201.6 | 4767.3 | 5464.9 | 6406.2 | 6428.5 | 5156.5 |
| 60°   | 1579.2 | 1585.4 | 1816.7 | 2001.9 | 2392.4 | 2961.9 | 3638.3 | 4754.9 | 5928.7 | 5896.4 | 4631.8 |
| 62.5° | 1035.8 | 1037.0 | 1247.2 | 1398.9 | 1576.7 | 1707.2 | 2141.2 | 3153.3 | 4374.4 | 4317.2 | 3297.6 |
| 65°   | 727.4  | 743.6  | 906.5  | 1109.1 | 1181.3 | 1112.9 | 1099.2 | 1662.5 | 2443.3 | 2361.3 | 1771.9 |
| 67.5° | 532.2  | 533.4  | 677.7  | 895.3  | 999.7  | 846.8  | 687.6  | 812.0  | 967.4  | 964.9  | 820.7  |
| 70°   | 351.9  | 366.8  | 477.5  | 669.0  | 788.3  | 680.2  | 562.0  | 580.7  | 615.5  | 615.5  | 610.5  |
| 72.5° | 205.2  | 218.8  | 292.2  | 424.0  | 442.7  | 425.3  | 445.1  | 497.4  | 519.8  | 518.5  | 512.3  |
| 75°   | 116.9  | 123.1  | 139.3  | 176.6  | 220.1  | 259.9  | 327.0  | 376.8  | 399.1  | 412.8  | 396.7  |
| 77.5° | 68.4   | 72.1   | 82.1   | 100.7  | 114.4  | 140.5  | 177.8  | 212.6  | 242.5  | 238.7  | 241.2  |
| 80°   | 36.1   | 36.1   | 46.0   | 59.7   | 79.6   | 99.5   | 118.1  | 138.0  | 154.2  | 157.9  | 161.6  |
| 82.5° | 21.1   | 22.4   | 29.8   | 43.5   | 57.2   | 70.9   | 90.8   | 104.4  | 119.4  | 120.6  | 123.1  |
| 85°   | 11.2   | 12.4   | 18.7   | 28.6   | 38.5   | 43.5   | 44.8   | 42.3   | 46.0   | 43.5   | 49.7   |
| 87.5° | 3.7    | 3.7    | 6.2    | 5.0    | 5.0    | 6.2    | 7.5    | 7.5    | 9.9    | 9.9    | 9.9    |
| 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°    | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 | 1835.3 |
| 2.5°  | 1845.3 | 1845.3 | 1824.1 | 1784.3 | 1778.1 | 1761.9 | 1747.0 | 1745.8 | 1734.6 | 1724.6 | 1719.7 |
| 5°    | 1880.1 | 1841.5 | 1810.4 | 1774.4 | 1732.1 | 1712.2 | 1689.8 | 1665.0 | 1655.0 | 1665.0 | 1663.7 |
| 7.5°  | 1919.9 | 1887.5 | 1794.3 | 1727.1 | 1678.6 | 1658.7 | 1633.9 | 1607.8 | 1610.2 | 1610.2 | 1592.8 |
| 10°   | 1958.4 | 1914.9 | 1765.7 | 1679.9 | 1609.0 | 1594.1 | 1580.4 | 1590.3 | 1602.8 | 1605.3 | 1594.1 |
| 12.5° | 2023.1 | 1924.8 | 1752.0 | 1632.6 | 1587.9 | 1555.5 | 1564.2 | 1591.6 | 1617.7 | 1610.2 | 1618.9 |
| 15°   | 2071.6 | 1933.5 | 1689.8 | 1584.1 | 1528.2 | 1543.1 | 1574.2 | 1592.8 | 1636.4 | 1631.4 | 1640.1 |
| 17.5° | 2118.8 | 1938.5 | 1628.9 | 1519.5 | 1495.8 | 1536.9 | 1560.5 | 1614.0 | 1627.7 | 1657.5 | 1668.7 |
| 20°   | 2215.8 | 1948.5 | 1566.7 | 1479.7 | 1472.2 | 1519.5 | 1560.5 | 1585.4 | 1615.2 | 1641.3 | 1641.3 |
| 22.5° | 2265.5 | 1943.5 | 1525.7 | 1427.5 | 1451.1 | 1480.9 | 1518.2 | 1560.5 | 1560.5 | 1585.4 | 1586.6 |
| 25°   | 2327.7 | 1923.6 | 1461.0 | 1402.6 | 1420.0 | 1448.6 | 1490.9 | 1476.0 | 1492.1 | 1492.1 | 1512.0 |
| 27.5° | 2398.6 | 1881.3 | 1405.1 | 1357.8 | 1392.6 | 1423.7 | 1429.9 | 1420.0 | 1401.3 | 1398.9 | 1391.4 |
| 30°   | 2455.8 | 1829.1 | 1364.0 | 1342.9 | 1371.5 | 1388.9 | 1369.0 | 1347.9 | 1315.6 | 1313.1 | 1295.7 |
| 32.5° | 2534.1 | 1764.4 | 1313.1 | 1305.6 | 1337.9 | 1339.2 | 1333.0 | 1300.6 | 1253.4 | 1233.5 | 1213.6 |
| 35°   | 2665.9 | 1727.1 | 1274.5 | 1285.7 | 1295.7 | 1291.9 | 1280.7 | 1245.9 | 1198.7 | 1190.0 | 1182.5 |
| 37.5° | 2762.9 | 1699.8 | 1234.7 | 1248.4 | 1257.1 | 1262.1 | 1228.5 | 1190.0 | 1191.2 | 1173.8 | 1168.8 |
| 40°   | 2872.3 | 1682.4 | 1202.4 | 1208.6 | 1209.9 | 1226.0 | 1185.0 | 1166.3 | 1175.0 | 1163.9 | 1171.3 |
| 42.5° | 3012.8 | 1687.3 | 1168.8 | 1163.9 | 1187.5 | 1181.3 | 1161.4 | 1136.5 | 1141.5 | 1107.9 | 1112.9 |
| 45°   | 3087.4 | 1720.9 | 1148.9 | 1126.5 | 1152.7 | 1151.4 | 1125.3 | 1101.7 | 1071.8 | 1007.2 | 1009.7 |
| 47.5° | 3137.2 | 1729.6 | 1101.7 | 1086.8 | 1114.1 | 1130.3 | 1100.4 | 1045.7 | 1003.4 | 957.4  | 946.3  |
| 50°   | 3188.2 | 1745.8 | 1079.3 | 1048.2 | 1059.4 | 1098.0 | 1060.6 | 1008.4 | 967.4  | 926.4  | 932.6  |
| 52.5° | 3232.9 | 1776.9 | 1035.8 | 989.8  | 1009.7 | 1051.9 | 1032.0 | 968.6  | 923.9  | 890.3  | 880.4  |
| 55°   | 3431.9 | 1846.5 | 962.4  | 902.7  | 950.0  | 1003.4 | 992.3  | 915.2  | 866.7  | 849.3  | 846.8  |
| 56°   | 3463.0 | 1849.0 | 923.9  | 872.9  | 916.4  | 987.3  | 973.6  | 891.5  | 848.0  | 820.7  | 821.9  |
| 57.5° | 3467.9 | 1819.1 | 869.2  | 845.5  | 882.8  | 963.7  | 946.3  | 872.9  | 813.2  | 788.3  | 780.9  |
| 60°   | 3051.4 | 1420.0 | 800.8  | 785.8  | 829.4  | 891.5  | 885.3  | 821.9  | 754.8  | 726.2  | 739.8  |
| 62.5° | 2080.3 | 1040.8 | 747.3  | 744.8  | 767.2  | 828.1  | 812.0  | 754.8  | 698.8  | 680.2  | 671.5  |
| 65°   | 1211.1 | 789.6  | 695.1  | 685.1  | 703.8  | 736.1  | 747.3  | 687.6  | 629.2  | 616.7  | 613.0  |
| 67.5° | 715.0  | 652.8  | 627.9  | 611.8  | 605.6  | 625.4  | 634.2  | 599.3  | 540.9  | 523.5  | 538.4  |
| 70°   | 598.1  | 580.7  | 581.9  | 554.6  | 539.6  | 526.0  | 518.5  | 487.4  | 438.9  | 416.5  | 410.3  |
| 72.5° | 516.0  | 508.6  | 503.6  | 478.7  | 465.0  | 434.0  | 401.6  | 370.5  | 334.5  | 315.8  | 317.1  |
| 75°   | 394.2  | 391.7  | 394.2  | 381.7  | 358.1  | 333.2  | 303.4  | 263.6  | 236.3  | 212.6  | 217.6  |
| 77.5° | 235.0  | 242.5  | 246.2  | 241.2  | 231.3  | 208.9  | 190.2  | 164.1  | 138.0  | 119.4  | 116.9  |
| 80°   | 161.6  | 167.9  | 174.1  | 167.9  | 157.9  | 141.8  | 121.9  | 102.0  | 83.3   | 73.4   | 70.9   |
| 82.5° | 123.1  | 129.3  | 133.0  | 126.8  | 114.4  | 97.0   | 83.3   | 69.6   | 54.7   | 44.8   | 42.3   |
| 85°   | 44.8   | 51.0   | 49.7   | 59.7   | 64.7   | 62.2   | 53.5   | 41.0   | 31.1   | 22.4   | 21.1   |
| 87.5° | 12.4   | 11.2   | 12.4   | 12.4   | 12.4   | 11.2   | 9.9    | 9.9    | 9.9    | 6.2    | 5.0    |
| 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)