

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: P452446

Luminaire Tested: **GLAN-SA3B-827-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9777 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

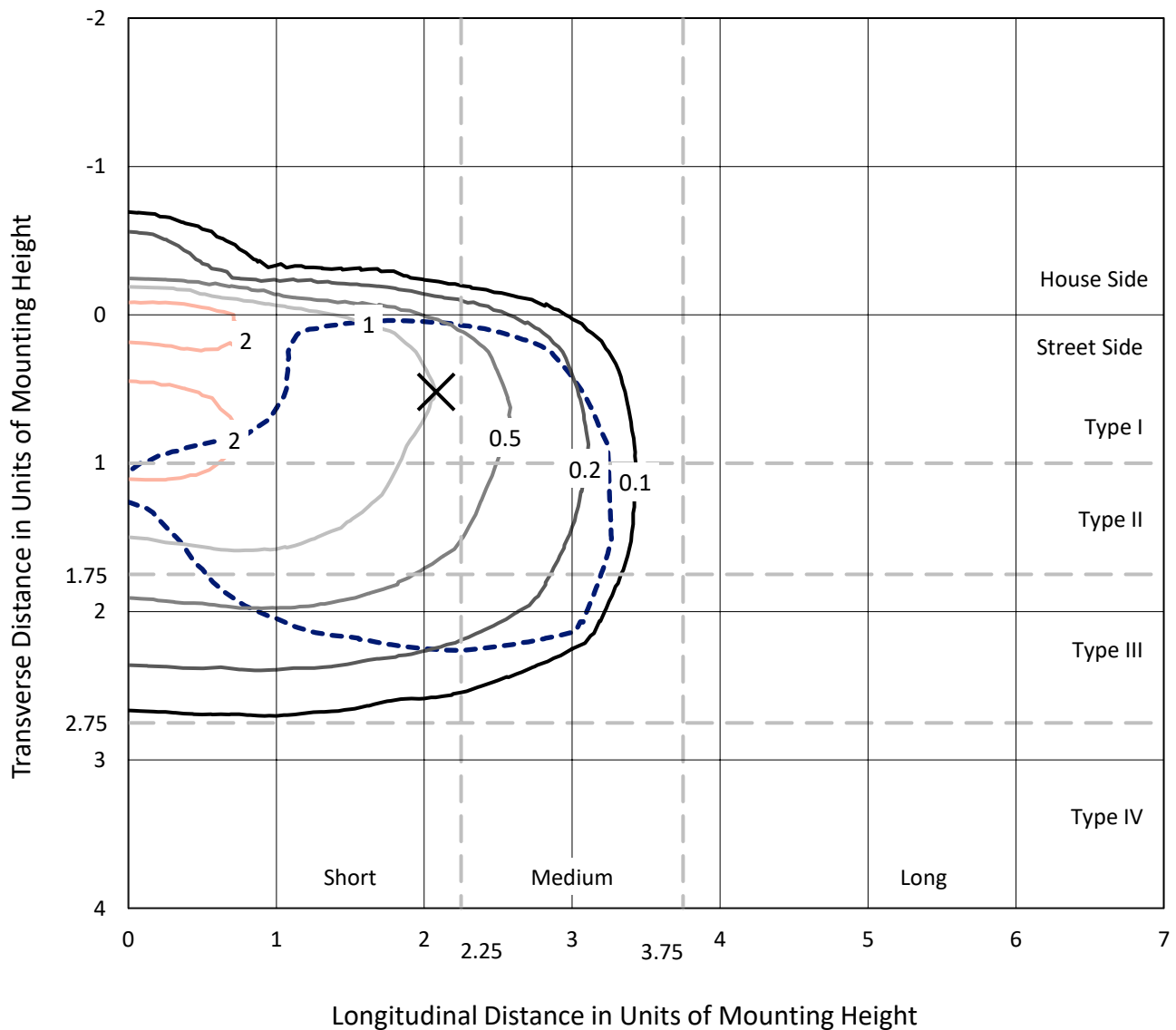


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

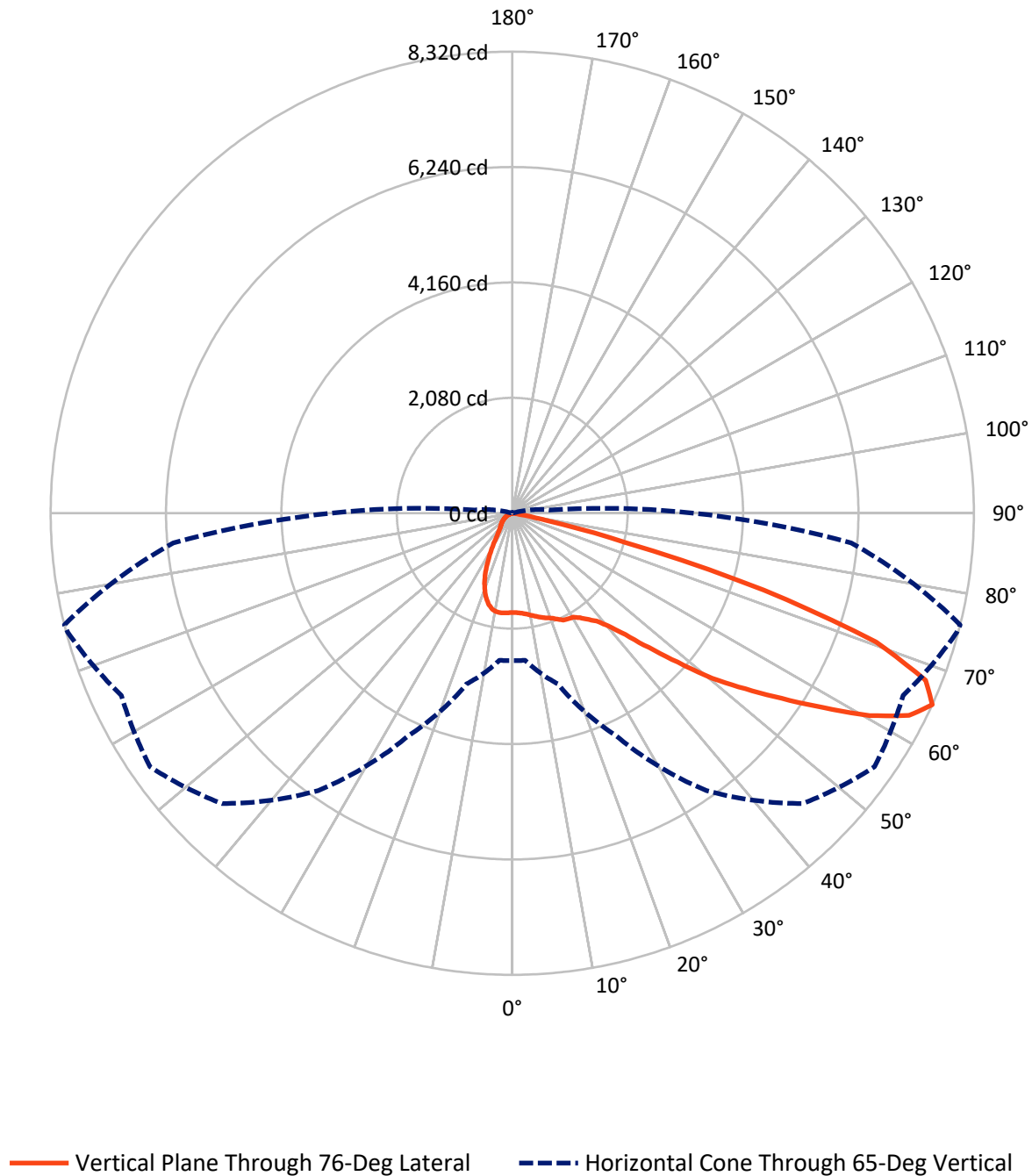


Based on 25 foot mounting height. Maximum calculated value = 3 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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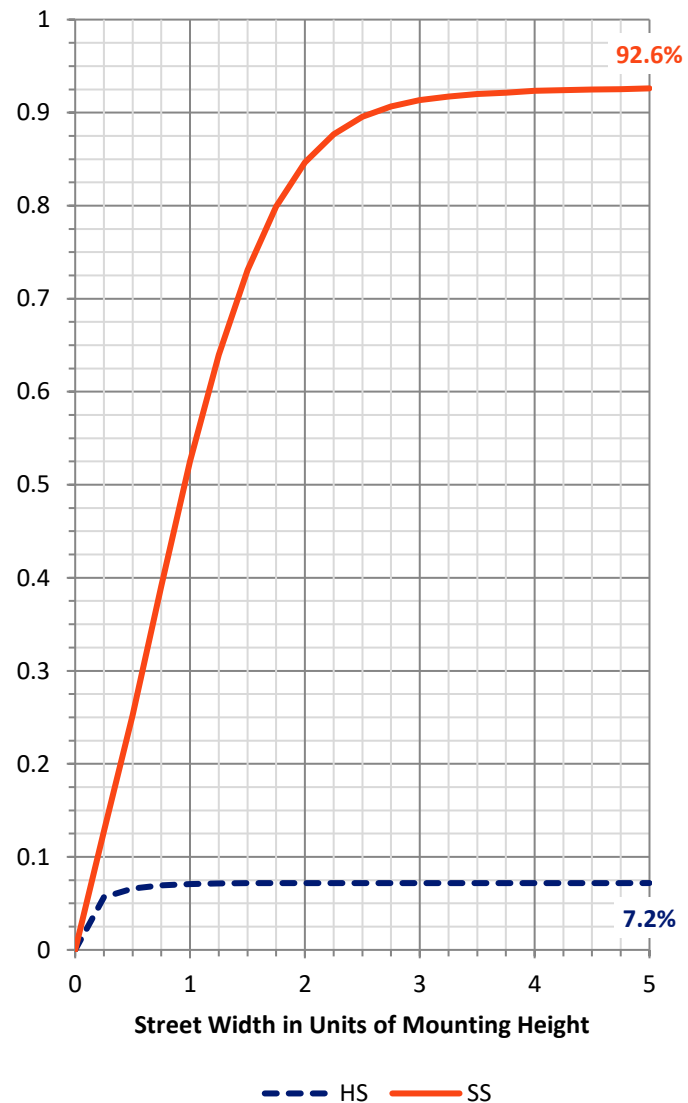
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 706.1    | 0.0    | 706.1  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 9070.9   | 0.0    | 9070.9 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 9777.0   | 0.0    | 9777.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.3  | 1.5       |
| 10°-20°   | 328.0  | 3.4       |
| 20°-30°   | 528.6  | 5.4       |
| 30°-40°   | 919.1  | 9.4       |
| 40°-50°   | 1518.8 | 15.5      |
| 50°-60°   | 2346.3 | 24.0      |
| 60°-70°   | 2865.1 | 29.3      |
| 70°-80°   | 1087.4 | 11.1      |
| 80°-90°   | 36.3   | 0.4       |
| 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°    | 9777.0 | 100.0     |
| 0°-180°   | 9777.0 | 100.0     |



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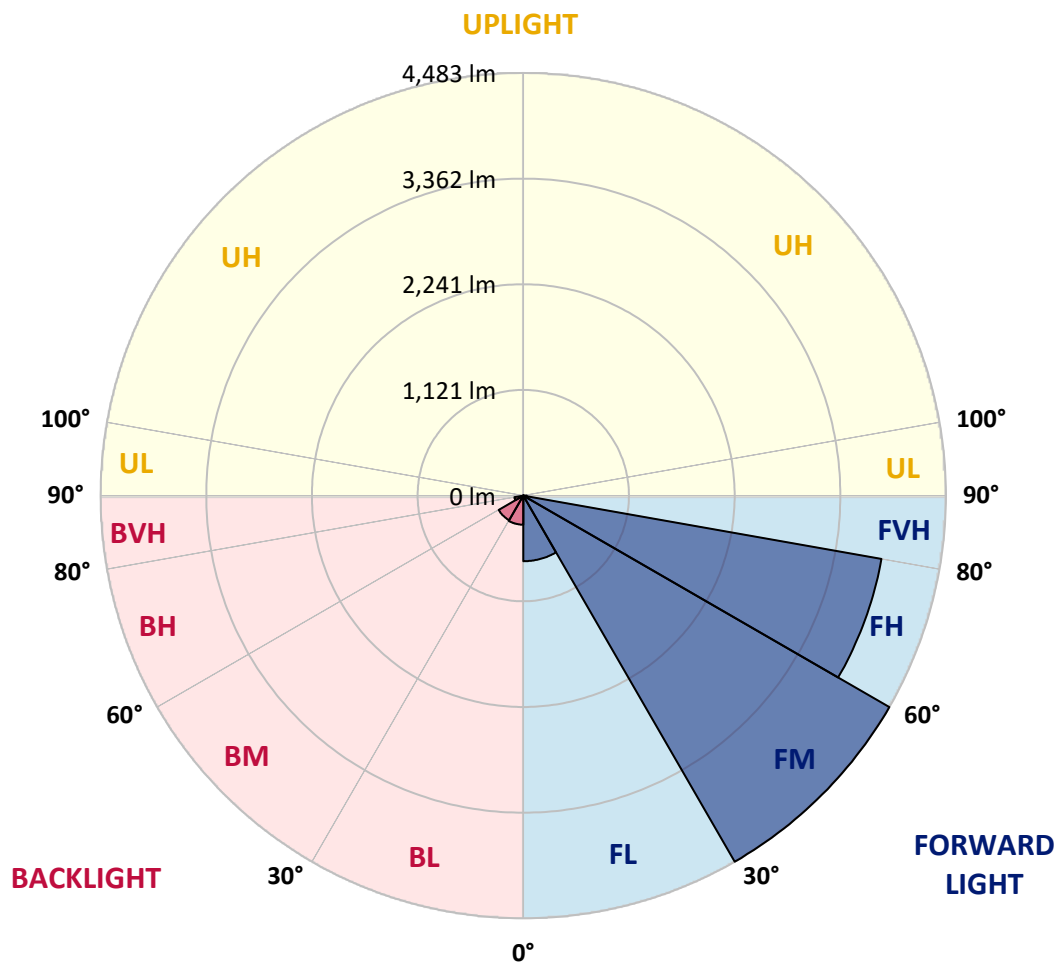
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 695.5  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 4482.9 | 45.9      |                         |      |         |
| FH   | (60°-80°)   | 3856.7 | 39.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 35.8   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 308.5  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 301.3  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 95.8   | 1.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 |
| 2.5°  | 1709.1 | 1709.8 | 1714.0 | 1724.3 | 1740.2 | 1753.3 | 1764.4 | 1782.3 | 1794.7 | 1796.1 | 1800.3 |
| 5°    | 1591.1 | 1582.8 | 1591.1 | 1618.0 | 1642.2 | 1678.8 | 1723.6 | 1768.5 | 1808.5 | 1811.3 | 1830.6 |
| 7.5°  | 1458.6 | 1465.5 | 1478.6 | 1506.2 | 1551.8 | 1607.7 | 1672.6 | 1752.6 | 1828.6 | 1835.5 | 1873.4 |
| 10°   | 1324.0 | 1339.2 | 1360.5 | 1402.7 | 1466.2 | 1538.6 | 1627.0 | 1741.6 | 1860.3 | 1870.0 | 1935.6 |
| 12.5° | 1199.7 | 1206.6 | 1232.8 | 1289.5 | 1368.1 | 1470.3 | 1592.5 | 1735.4 | 1895.5 | 1907.3 | 2001.8 |
| 15°   | 1104.5 | 1113.4 | 1136.2 | 1187.3 | 1275.0 | 1406.1 | 1564.2 | 1733.3 | 1930.0 | 1946.6 | 2068.1 |
| 17.5° | 1086.5 | 1092.0 | 1101.7 | 1136.2 | 1212.8 | 1355.0 | 1538.6 | 1732.6 | 1963.2 | 1983.2 | 2129.5 |
| 20°   | 1160.4 | 1155.5 | 1145.9 | 1142.4 | 1184.5 | 1315.7 | 1520.0 | 1738.1 | 1994.9 | 2017.7 | 2194.4 |
| 22.5° | 1345.4 | 1351.6 | 1295.0 | 1228.0 | 1214.2 | 1309.5 | 1517.2 | 1764.4 | 2045.3 | 2072.2 | 2266.9 |
| 25°   | 1738.1 | 1690.5 | 1602.1 | 1442.0 | 1321.2 | 1347.4 | 1548.3 | 1826.5 | 2104.0 | 2133.7 | 2332.5 |
| 27.5° | 2172.3 | 2157.8 | 2020.5 | 1756.8 | 1531.7 | 1427.5 | 1603.5 | 1874.1 | 2123.3 | 2153.7 | 2369.7 |
| 30°   | 2598.9 | 2616.2 | 2458.8 | 2167.5 | 1837.5 | 1575.9 | 1655.3 | 1892.1 | 2140.6 | 2172.3 | 2417.4 |
| 32.5° | 2994.5 | 3015.2 | 2877.1 | 2588.6 | 2197.9 | 1832.7 | 1744.3 | 1961.8 | 2213.0 | 2245.5 | 2496.8 |
| 35°   | 3305.8 | 3308.5 | 3204.3 | 2974.4 | 2591.3 | 2144.7 | 1936.9 | 2084.0 | 2311.1 | 2349.0 | 2581.0 |
| 37.5° | 3591.5 | 3587.4 | 3465.2 | 3267.1 | 2919.2 | 2454.6 | 2179.2 | 2224.8 | 2422.9 | 2462.2 | 2702.5 |
| 40°   | 3803.5 | 3806.2 | 3766.9 | 3580.5 | 3225.0 | 2741.1 | 2371.1 | 2356.6 | 2610.7 | 2672.1 | 2879.2 |
| 42.5° | 3945.0 | 3970.5 | 3989.8 | 3895.3 | 3609.5 | 3093.9 | 2665.9 | 2639.0 | 2936.5 | 2987.5 | 3129.1 |
| 45°   | 4059.6 | 4105.1 | 4201.8 | 4196.9 | 3978.8 | 3526.7 | 3070.4 | 3015.2 | 3398.3 | 3452.8 | 3447.3 |
| 47.5° | 4143.1 | 4189.3 | 4349.5 | 4446.1 | 4326.0 | 3946.4 | 3579.1 | 3531.5 | 3949.8 | 4009.2 | 3798.6 |
| 50°   | 4185.9 | 4241.1 | 4445.4 | 4632.5 | 4597.3 | 4350.9 | 4159.0 | 4161.7 | 4615.9 | 4673.2 | 4205.9 |
| 52.5° | 4085.8 | 4157.6 | 4496.5 | 4833.4 | 4901.7 | 4738.1 | 4702.2 | 4793.3 | 5208.9 | 5257.9 | 4573.8 |
| 55°   | 3766.2 | 3856.6 | 4426.8 | 5004.6 | 5254.4 | 5195.1 | 5319.3 | 5458.1 | 5857.1 | 5888.8 | 4951.4 |
| 57.5° | 3563.9 | 3659.9 | 4221.1 | 5150.2 | 5678.3 | 5769.4 | 5966.1 | 6067.6 | 6525.9 | 6606.7 | 5384.9 |
| 60°   | 3393.4 | 3468.7 | 4052.0 | 5181.3 | 6109.0 | 6472.1 | 6663.3 | 6768.2 | 7351.5 | 7404.0 | 5861.9 |
| 62.5° | 3109.7 | 3196.0 | 3766.2 | 4964.5 | 6325.8 | 7034.7 | 7430.9 | 7384.0 | 7990.0 | 8026.6 | 6154.6 |
| 65°   | 2653.5 | 2661.0 | 3186.4 | 4419.9 | 6102.1 | 7399.8 | 7970.0 | 7773.3 | 8295.1 | 8320.0 | 6131.8 |
| 67.5° | 1980.4 | 2053.6 | 2451.2 | 3474.2 | 5154.3 | 7087.8 | 8144.7 | 7783.6 | 8102.6 | 8033.5 | 5645.1 |
| 70°   | 1275.6 | 1331.6 | 1661.5 | 2409.1 | 3716.5 | 5915.0 | 7565.5 | 7250.1 | 7111.3 | 6958.1 | 4620.8 |
| 72.5° | 588.8  | 660.6  | 987.1  | 1376.4 | 2204.1 | 4213.5 | 6141.5 | 5890.2 | 5118.5 | 4740.2 | 2937.2 |
| 75°   | 256.8  | 274.7  | 487.3  | 726.2  | 1033.4 | 2228.2 | 4049.2 | 3656.4 | 2311.8 | 2111.6 | 1175.6 |
| 77.5° | 156.7  | 168.4  | 255.4  | 389.3  | 405.9  | 849.0  | 2181.3 | 1595.2 | 714.4  | 630.2  | 318.9  |
| 80°   | 106.3  | 119.4  | 185.7  | 203.6  | 138.7  | 236.8  | 818.7  | 425.9  | 144.3  | 138.1  | 68.3   |
| 82.5° | 51.8   | 65.6   | 137.4  | 113.9  | 60.1   | 75.9   | 238.1  | 91.1   | 42.1   | 39.3   | 24.2   |
| 85°   | 7.6    | 13.1   | 77.3   | 74.6   | 26.9   | 17.9   | 42.1   | 22.8   | 14.5   | 13.8   | 11.0   |
| 87.5° | 0.0    | 0.0    | 26.2   | 11.7   | 2.8    | 2.8    | 4.8    | 4.8    | 5.5    | 4.8    | 5.5    |
| 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°    | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 | 1788.5 |
| 2.5°  | 1802.3 | 1805.8 | 1792.7 | 1774.0 | 1754.0 | 1734.0 | 1705.7 | 1680.2 | 1665.0 | 1673.9 | 1651.8 |
| 5°    | 1834.8 | 1832.0 | 1797.5 | 1740.9 | 1665.7 | 1575.2 | 1485.5 | 1408.9 | 1384.0 | 1346.7 | 1342.6 |
| 7.5°  | 1879.6 | 1872.0 | 1798.9 | 1669.1 | 1499.3 | 1329.5 | 1163.8 | 1054.1 | 991.2  | 938.1  | 939.5  |
| 10°   | 1942.5 | 1920.4 | 1783.0 | 1542.8 | 1263.2 | 1007.1 | 795.9  | 650.9  | 588.1  | 568.1  | 552.2  |
| 12.5° | 2007.3 | 1964.5 | 1738.8 | 1372.3 | 983.7  | 688.2  | 483.9  | 395.5  | 356.9  | 344.5  | 343.1  |
| 15°   | 2065.3 | 1997.7 | 1661.5 | 1167.3 | 715.1  | 439.7  | 330.0  | 301.0  | 296.1  | 296.8  | 296.1  |
| 17.5° | 2122.6 | 2023.9 | 1554.5 | 949.8  | 486.0  | 315.5  | 283.7  | 276.8  | 278.9  | 281.6  | 280.9  |
| 20°   | 2170.3 | 2029.4 | 1417.8 | 724.8  | 343.8  | 276.8  | 266.4  | 265.1  | 267.1  | 269.2  | 269.2  |
| 22.5° | 2222.0 | 2033.6 | 1255.6 | 501.8  | 280.9  | 257.5  | 252.0  | 252.0  | 254.7  | 257.5  | 258.2  |
| 25°   | 2260.7 | 2010.8 | 1061.7 | 360.3  | 247.8  | 238.8  | 236.1  | 236.8  | 239.5  | 240.9  | 240.2  |
| 27.5° | 2266.9 | 1946.6 | 856.0  | 276.1  | 225.0  | 216.1  | 213.3  | 216.1  | 212.6  | 214.7  | 213.3  |
| 30°   | 2272.4 | 1865.1 | 647.5  | 232.6  | 204.3  | 190.5  | 186.4  | 182.2  | 179.5  | 176.0  | 175.3  |
| 32.5° | 2289.7 | 1769.2 | 472.8  | 209.2  | 185.0  | 169.8  | 160.1  | 148.4  | 139.4  | 136.7  | 136.0  |
| 35°   | 2297.3 | 1653.9 | 347.2  | 190.5  | 167.7  | 151.2  | 133.9  | 117.3  | 104.2  | 99.4   | 102.9  |
| 37.5° | 2326.3 | 1542.1 | 269.2  | 176.7  | 152.6  | 131.8  | 109.8  | 89.0   | 76.6   | 73.9   | 75.2   |
| 40°   | 2385.6 | 1420.6 | 225.7  | 165.0  | 139.4  | 113.9  | 87.0   | 67.0   | 58.7   | 55.9   | 55.2   |
| 42.5° | 2480.9 | 1299.8 | 200.9  | 153.9  | 126.3  | 95.9   | 68.3   | 52.5   | 45.6   | 43.5   | 43.5   |
| 45°   | 2596.8 | 1183.8 | 183.6  | 142.2  | 112.5  | 77.3   | 53.8   | 42.1   | 38.0   | 36.6   | 36.6   |
| 47.5° | 2749.4 | 1082.4 | 169.1  | 130.5  | 97.3   | 61.4   | 43.5   | 36.6   | 33.8   | 34.5   | 35.2   |
| 50°   | 2904.0 | 1007.1 | 153.2  | 117.3  | 80.1   | 50.4   | 37.3   | 32.4   | 31.8   | 32.4   | 32.4   |
| 52.5° | 3020.7 | 962.9  | 131.8  | 99.4   | 62.8   | 42.1   | 33.1   | 30.4   | 29.7   | 28.3   | 28.3   |
| 55°   | 3178.1 | 953.3  | 104.9  | 80.8   | 49.7   | 35.2   | 29.7   | 27.6   | 25.5   | 24.2   | 23.5   |
| 57.5° | 3380.3 | 964.3  | 80.8   | 62.8   | 38.7   | 29.0   | 26.2   | 22.8   | 20.0   | 17.3   | 17.3   |
| 60°   | 3506.0 | 939.5  | 62.8   | 48.3   | 28.3   | 23.5   | 20.0   | 16.6   | 13.1   | 11.0   | 10.4   |
| 62.5° | 3465.9 | 834.6  | 49.7   | 35.9   | 20.0   | 17.3   | 13.1   | 11.0   | 7.6    | 5.5    | 4.8    |
| 65°   | 3259.5 | 673.7  | 40.0   | 24.9   | 14.5   | 10.4   | 6.9    | 6.9    | 3.5    | 0.7    | 0.0    |
| 67.5° | 2852.9 | 499.1  | 31.8   | 16.6   | 8.3    | 4.8    | 3.5    | 2.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 2322.1 | 360.3  | 24.9   | 10.4   | 4.8    | 3.5    | 1.4    | 0.7    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1474.4 | 206.4  | 19.3   | 6.2    | 3.5    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 570.2  | 80.8   | 13.1   | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 161.5  | 38.0   | 7.6    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 42.1   | 16.6   | 4.1    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.0   | 6.9    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.7   | 2.8    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.5    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)