

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: P453256

Luminaire Tested: **GLAN-SA4B-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15051 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 164  
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

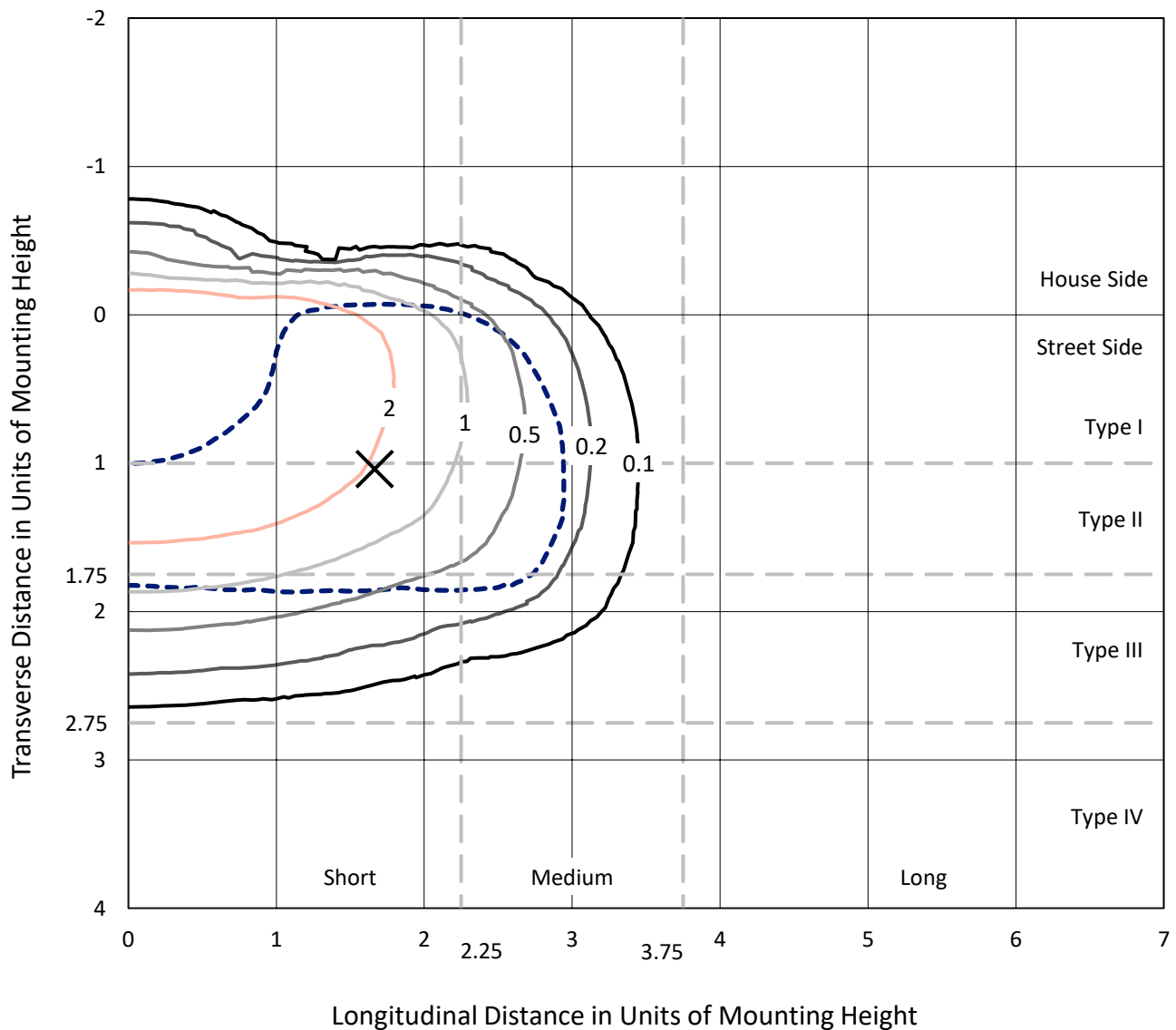


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

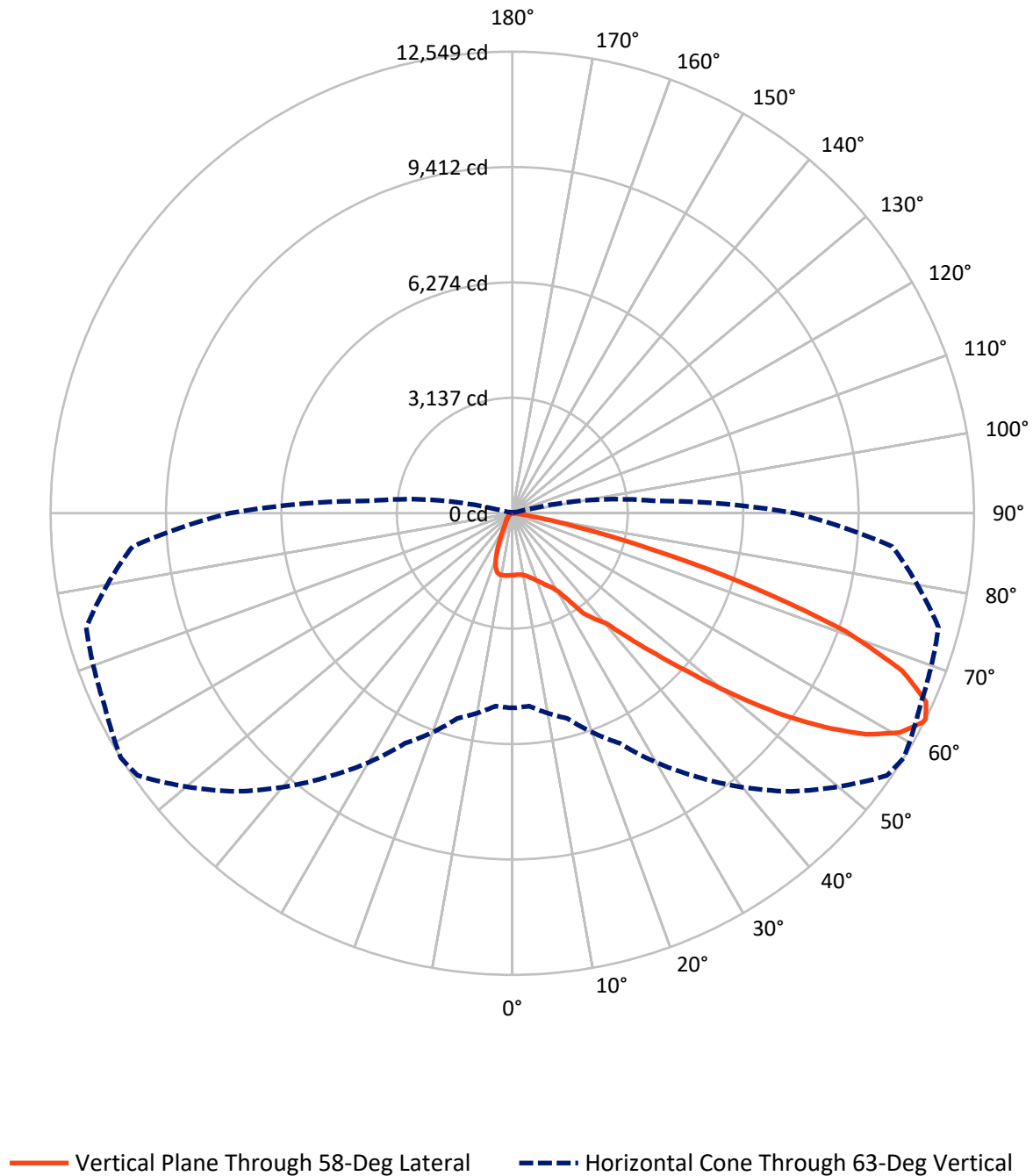


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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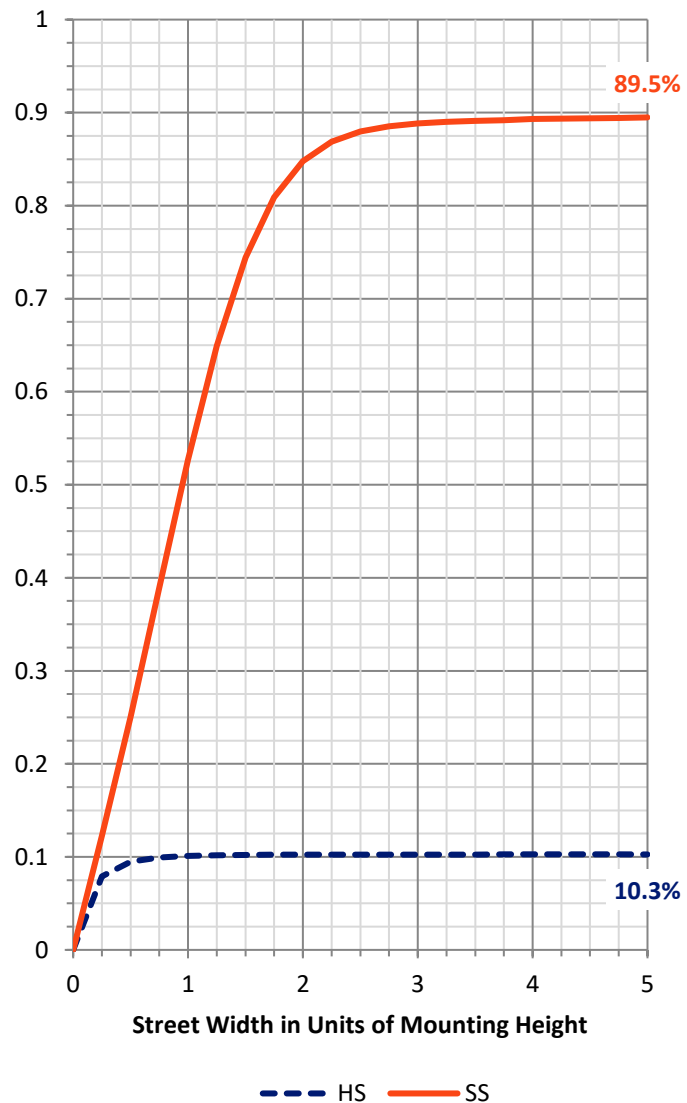
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1558.4   | 0.0    | 1558.4  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 13492.6  | 0.0    | 13492.6 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 15051.0  | 0.0    | 15051.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 157.7   | 1.0       |
| 10°-20°   | 429.6   | 2.9       |
| 20°-30°   | 745.6   | 5.0       |
| 30°-40°   | 1370.2  | 9.1       |
| 40°-50°   | 2579.4  | 17.1      |
| 50°-60°   | 4411.8  | 29.3      |
| 60°-70°   | 4224.3  | 28.1      |
| 70°-80°   | 1077.2  | 7.2       |
| 80°-90°   | 55.1    | 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°    | 15051.0 | 100.0     |
| 0°-180°   | 15051.0 | 100.0     |

**Coefficient of Utilization**



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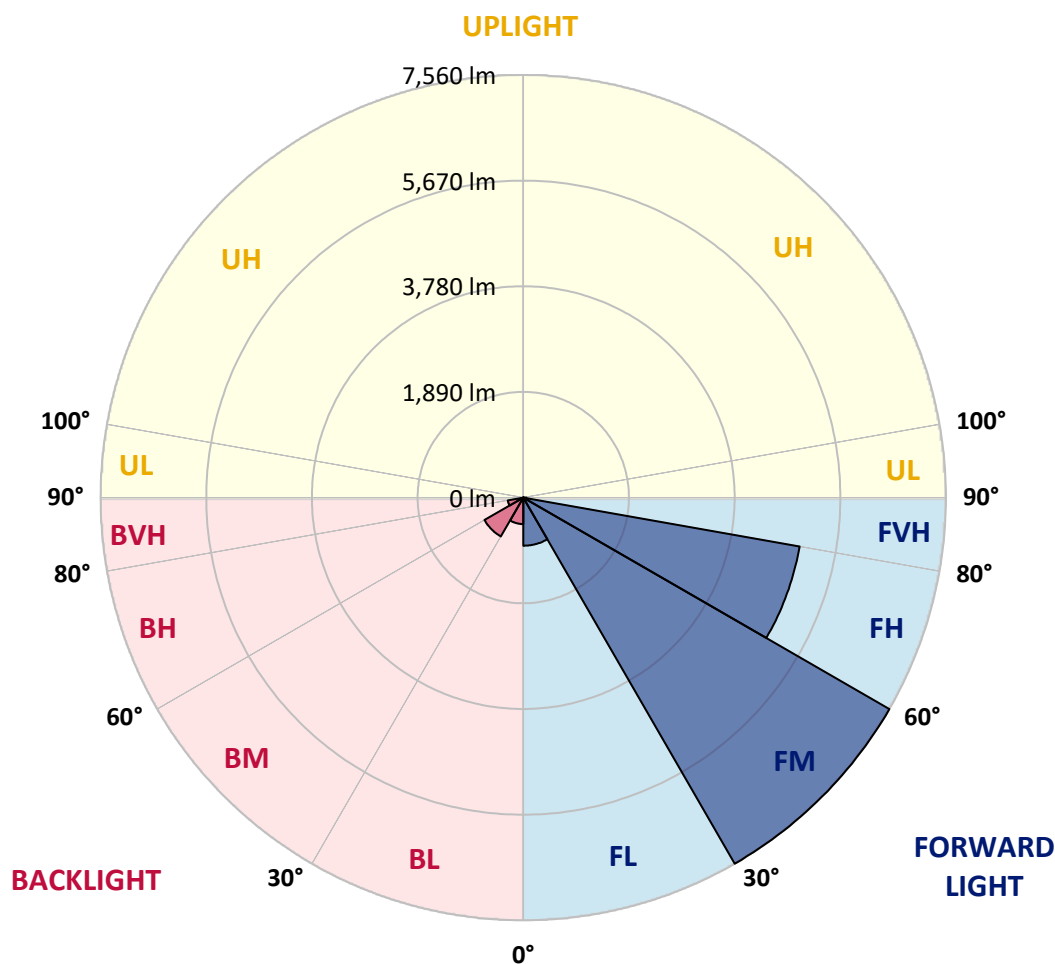
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 860.4  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 7559.8 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 5019.4 | 33.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 52.9   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 472.6  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 801.6  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 282.1  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.1    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0  | 1685.0  | 1685.0  | 1685.0  | 1685.0  | 1685.0  | 1685.0  |
| 2.5°  | 1643.1 | 1648.8 | 1654.4 | 1656.7 | 1664.6  | 1672.6  | 1678.2  | 1677.1  | 1686.2  | 1690.7  | 1690.7  |
| 5°    | 1577.4 | 1577.4 | 1592.1 | 1605.7 | 1628.4  | 1651.0  | 1672.6  | 1677.1  | 1694.1  | 1709.9  | 1715.6  |
| 7.5°  | 1521.8 | 1525.2 | 1536.6 | 1561.5 | 1592.1  | 1631.8  | 1674.8  | 1685.0  | 1714.5  | 1749.6  | 1764.3  |
| 10°   | 1495.8 | 1498.0 | 1512.8 | 1538.8 | 1577.4  | 1631.8  | 1691.8  | 1711.1  | 1756.4  | 1811.9  | 1832.3  |
| 12.5° | 1490.1 | 1493.5 | 1508.2 | 1537.7 | 1581.9  | 1647.6  | 1729.2  | 1749.6  | 1815.3  | 1886.7  | 1917.3  |
| 15°   | 1500.3 | 1502.6 | 1517.3 | 1549.0 | 1597.8  | 1676.0  | 1779.1  | 1807.4  | 1885.6  | 1968.3  | 2008.0  |
| 17.5° | 1536.6 | 1534.3 | 1544.5 | 1570.6 | 1625.0  | 1711.1  | 1839.1  | 1873.1  | 1964.9  | 2078.2  | 2104.3  |
| 20°   | 1690.7 | 1676.0 | 1666.9 | 1644.2 | 1665.8  | 1760.9  | 1911.7  | 1961.5  | 2074.8  | 2190.4  | 2208.5  |
| 22.5° | 2022.7 | 1989.8 | 1925.2 | 1836.9 | 1768.9  | 1828.9  | 1998.9  | 2056.7  | 2202.9  | 2316.2  | 2316.2  |
| 25°   | 2445.4 | 2403.4 | 2338.9 | 2146.2 | 1979.6  | 1941.1  | 2097.5  | 2170.0  | 2342.3  | 2456.7  | 2419.3  |
| 27.5° | 2974.6 | 2941.7 | 2815.9 | 2591.6 | 2336.6  | 2137.2  | 2211.9  | 2278.8  | 2465.8  | 2604.0  | 2525.8  |
| 30°   | 3405.2 | 3389.3 | 3286.2 | 3085.6 | 2804.6  | 2513.4  | 2425.0  | 2469.2  | 2630.1  | 2789.9  | 2709.4  |
| 32.5° | 3768.9 | 3768.9 | 3663.5 | 3476.6 | 3213.7  | 2955.3  | 2786.5  | 2818.2  | 2972.3  | 3157.0  | 3007.4  |
| 35°   | 4168.9 | 4155.3 | 4070.3 | 3892.4 | 3597.8  | 3370.0  | 3300.9  | 3344.0  | 3483.4  | 3620.5  | 3252.2  |
| 37.5° | 4589.3 | 4584.8 | 4496.4 | 4324.2 | 4083.9  | 3797.2  | 3635.2  | 3646.5  | 3717.9  | 3801.8  | 3538.9  |
| 40°   | 5046.0 | 5052.8 | 4937.2 | 4830.7 | 4604.1  | 4310.6  | 4000.1  | 3928.7  | 3995.5  | 4232.4  | 4068.1  |
| 42.5° | 5585.4 | 5569.5 | 5519.7 | 5374.6 | 5192.2  | 5016.5  | 4643.7  | 4617.7  | 4676.6  | 4930.4  | 4752.5  |
| 45°   | 6212.0 | 6234.7 | 6148.6 | 6068.1 | 5945.7  | 5799.5  | 5487.9  | 5442.6  | 5507.2  | 5901.5  | 5648.8  |
| 47.5° | 6839.8 | 6818.3 | 6873.8 | 6859.1 | 6924.8  | 6816.0  | 6540.6  | 6447.7  | 6603.0  | 6976.9  | 6605.2  |
| 50°   | 7318.0 | 7341.8 | 7457.4 | 7626.2 | 7908.4  | 7969.6  | 7705.5  | 7673.8  | 7742.9  | 7983.2  | 7460.8  |
| 52.5° | 7628.5 | 7707.8 | 7889.1 | 8323.1 | 8831.9  | 9227.4  | 9026.8  | 9009.8  | 8981.5  | 9046.1  | 8278.9  |
| 55°   | 7831.3 | 7911.8 | 8148.6 | 8787.7 | 9663.6  | 10306.1 | 10316.3 | 10243.8 | 10056.8 | 10010.4 | 9043.8  |
| 57.5° | 7706.7 | 7722.5 | 8060.2 | 8914.6 | 10124.8 | 11075.6 | 11408.7 | 11336.2 | 10990.6 | 10814.9 | 9719.2  |
| 60°   | 6927.0 | 6959.9 | 7430.2 | 8434.2 | 9924.3  | 11327.1 | 12132.8 | 12099.9 | 11721.5 | 11523.2 | 10245.0 |
| 62.5° | 5545.7 | 5640.9 | 6124.8 | 7244.3 | 8991.7  | 10903.3 | 12426.3 | 12519.2 | 12224.6 | 11951.5 | 10410.4 |
| 63°   | 5291.9 | 5261.3 | 5772.3 | 6897.6 | 8744.6  | 10693.7 | 12430.8 | 12548.7 | 12247.3 | 11992.3 | 10365.1 |
| 65°   | 3917.4 | 4009.1 | 4341.2 | 5439.2 | 7277.2  | 9718.0  | 12150.9 | 12359.4 | 12163.4 | 11812.1 | 9863.1  |
| 67.5° | 2199.5 | 2194.9 | 2562.1 | 3559.3 | 5093.6  | 7622.8  | 10987.2 | 11428.0 | 11387.2 | 10599.6 | 8175.8  |
| 70°   | 1076.5 | 1093.5 | 1244.2 | 1844.8 | 2954.2  | 5259.0  | 9129.9  | 9605.8  | 9620.6  | 8325.4  | 5653.4  |
| 72.5° | 487.3  | 495.2  | 602.8  | 898.6  | 1518.4  | 2800.1  | 6291.3  | 6745.7  | 6661.9  | 5305.5  | 3121.9  |
| 75°   | 257.2  | 274.2  | 332.0  | 452.1  | 732.0   | 1154.7  | 3422.2  | 3861.8  | 3686.2  | 2423.8  | 1149.0  |
| 77.5° | 190.4  | 196.0  | 225.5  | 287.8  | 392.1   | 449.9   | 1476.5  | 1756.4  | 1645.4  | 877.1   | 380.7   |
| 80°   | 139.4  | 143.9  | 167.7  | 204.0  | 247.0   | 228.9   | 556.4   | 638.0   | 572.2   | 298.0   | 116.7   |
| 82.5° | 85.0   | 86.1   | 122.4  | 151.8  | 155.2   | 128.0   | 183.6   | 197.2   | 206.2   | 167.7   | 63.5    |
| 85°   | 30.6   | 38.5   | 82.7   | 109.9  | 91.8    | 64.6    | 77.1    | 85.0    | 92.9    | 106.5   | 37.4    |
| 87.5° | 3.4    | 4.5    | 39.7   | 53.3   | 26.1    | 23.8    | 28.3    | 31.7    | 34.0    | 39.7    | 18.1    |
| 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°    | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 | 1685.0 |
| 2.5°  | 1695.2 | 1699.7 | 1696.3 | 1690.7 | 1689.6 | 1686.2 | 1679.4 | 1679.4 | 1679.4 | 1681.6 | 1679.4 |
| 5°    | 1720.1 | 1723.5 | 1715.6 | 1704.3 | 1691.8 | 1676.0 | 1659.0 | 1648.8 | 1647.6 | 1645.4 | 1639.7 |
| 7.5°  | 1767.7 | 1772.3 | 1754.1 | 1726.9 | 1692.9 | 1654.4 | 1618.2 | 1584.2 | 1568.3 | 1555.8 | 1555.8 |
| 10°   | 1836.9 | 1841.4 | 1805.1 | 1756.4 | 1688.4 | 1610.2 | 1524.1 | 1445.9 | 1384.7 | 1356.4 | 1349.6 |
| 12.5° | 1919.6 | 1921.8 | 1861.8 | 1776.8 | 1664.6 | 1513.9 | 1330.3 | 1159.2 | 1040.2 | 985.9  | 980.2  |
| 15°   | 2010.2 | 1994.4 | 1915.1 | 1784.7 | 1596.6 | 1315.6 | 998.3  | 788.7  | 665.2  | 628.9  | 642.5  |
| 17.5° | 2102.0 | 2072.6 | 1955.8 | 1772.3 | 1443.7 | 998.3  | 670.8  | 538.3  | 499.7  | 489.5  | 489.5  |
| 20°   | 2188.1 | 2147.3 | 1985.3 | 1717.9 | 1178.5 | 687.8  | 497.5  | 465.7  | 458.9  | 452.1  | 453.3  |
| 22.5° | 2274.3 | 2211.9 | 2011.4 | 1596.6 | 878.2  | 491.8  | 445.3  | 435.1  | 426.1  | 417.0  | 415.9  |
| 25°   | 2358.1 | 2272.0 | 2021.6 | 1372.3 | 598.3  | 422.7  | 406.8  | 393.2  | 375.1  | 364.9  | 362.6  |
| 27.5° | 2445.4 | 2344.5 | 2014.8 | 1089.0 | 436.3  | 378.5  | 362.6  | 343.3  | 321.8  | 303.7  | 303.7  |
| 30°   | 2613.1 | 2482.8 | 1991.0 | 783.0  | 367.1  | 333.2  | 312.8  | 282.2  | 258.4  | 240.2  | 239.1  |
| 32.5° | 2842.0 | 2662.9 | 1909.4 | 550.7  | 326.4  | 293.5  | 262.9  | 228.9  | 204.0  | 190.4  | 190.4  |
| 35°   | 3045.9 | 2844.2 | 1756.4 | 405.7  | 293.5  | 255.0  | 217.6  | 184.7  | 165.4  | 156.4  | 153.0  |
| 37.5° | 3356.4 | 3109.4 | 1545.6 | 329.8  | 261.8  | 221.0  | 182.4  | 151.8  | 136.0  | 129.2  | 129.2  |
| 40°   | 3822.2 | 3433.5 | 1287.3 | 289.0  | 231.2  | 188.1  | 151.8  | 128.0  | 115.6  | 107.7  | 107.7  |
| 42.5° | 4400.1 | 3830.1 | 1025.5 | 259.5  | 202.8  | 162.0  | 126.9  | 108.8  | 97.5   | 91.8   | 90.7   |
| 45°   | 5127.6 | 4248.2 | 789.8  | 232.3  | 180.2  | 138.2  | 107.7  | 91.8   | 80.5   | 77.1   | 78.2   |
| 47.5° | 5886.8 | 4616.5 | 611.9  | 208.5  | 156.4  | 116.7  | 91.8   | 79.3   | 71.4   | 66.9   | 66.9   |
| 50°   | 6535.0 | 4870.3 | 464.6  | 181.3  | 138.2  | 98.6   | 80.5   | 71.4   | 64.6   | 62.3   | 61.2   |
| 52.5° | 7076.6 | 4944.0 | 355.8  | 157.5  | 121.2  | 85.0   | 71.4   | 64.6   | 58.9   | 55.5   | 55.5   |
| 55°   | 7537.8 | 4879.4 | 278.8  | 132.6  | 102.0  | 73.7   | 63.5   | 57.8   | 51.0   | 47.6   | 46.5   |
| 57.5° | 7807.5 | 4672.0 | 213.0  | 109.9  | 82.7   | 61.2   | 55.5   | 48.7   | 40.8   | 35.1   | 35.1   |
| 60°   | 7943.5 | 4370.6 | 163.2  | 90.7   | 63.5   | 48.7   | 45.3   | 36.3   | 28.3   | 23.8   | 22.7   |
| 62.5° | 7780.3 | 3970.6 | 123.5  | 71.4   | 47.6   | 36.3   | 30.6   | 26.1   | 18.1   | 13.6   | 13.6   |
| 63°   | 7679.5 | 3855.0 | 119.0  | 68.0   | 44.2   | 34.0   | 28.3   | 23.8   | 15.9   | 12.5   | 11.3   |
| 65°   | 7000.7 | 3350.8 | 97.5   | 54.4   | 35.1   | 23.8   | 19.3   | 17.0   | 11.3   | 5.7    | 4.5    |
| 67.5° | 5559.3 | 2563.2 | 77.1   | 40.8   | 24.9   | 17.0   | 11.3   | 10.2   | 3.4    | 0.0    | 0.0    |
| 70°   | 3758.7 | 1655.6 | 60.1   | 29.5   | 17.0   | 10.2   | 5.7    | 4.5    | 1.1    | 0.0    | 0.0    |
| 72.5° | 1960.4 | 848.7  | 46.5   | 21.5   | 10.2   | 6.8    | 3.4    | 1.1    | 0.0    | 0.0    | 0.0    |
| 75°   | 693.5  | 289.0  | 34.0   | 13.6   | 6.8    | 3.4    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 209.6  | 107.7  | 21.5   | 10.2   | 4.5    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 73.7   | 39.7   | 12.5   | 6.8    | 3.4    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 36.3   | 19.3   | 7.9    | 5.7    | 3.4    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.4   | 12.5   | 6.8    | 5.7    | 3.4    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.7   | 9.1    | 6.8    | 5.7    | 4.5    | 2.3    | 1.1    | 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)