

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: P852462

Luminaire Tested: **GLAN-SB4A-735-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13357 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

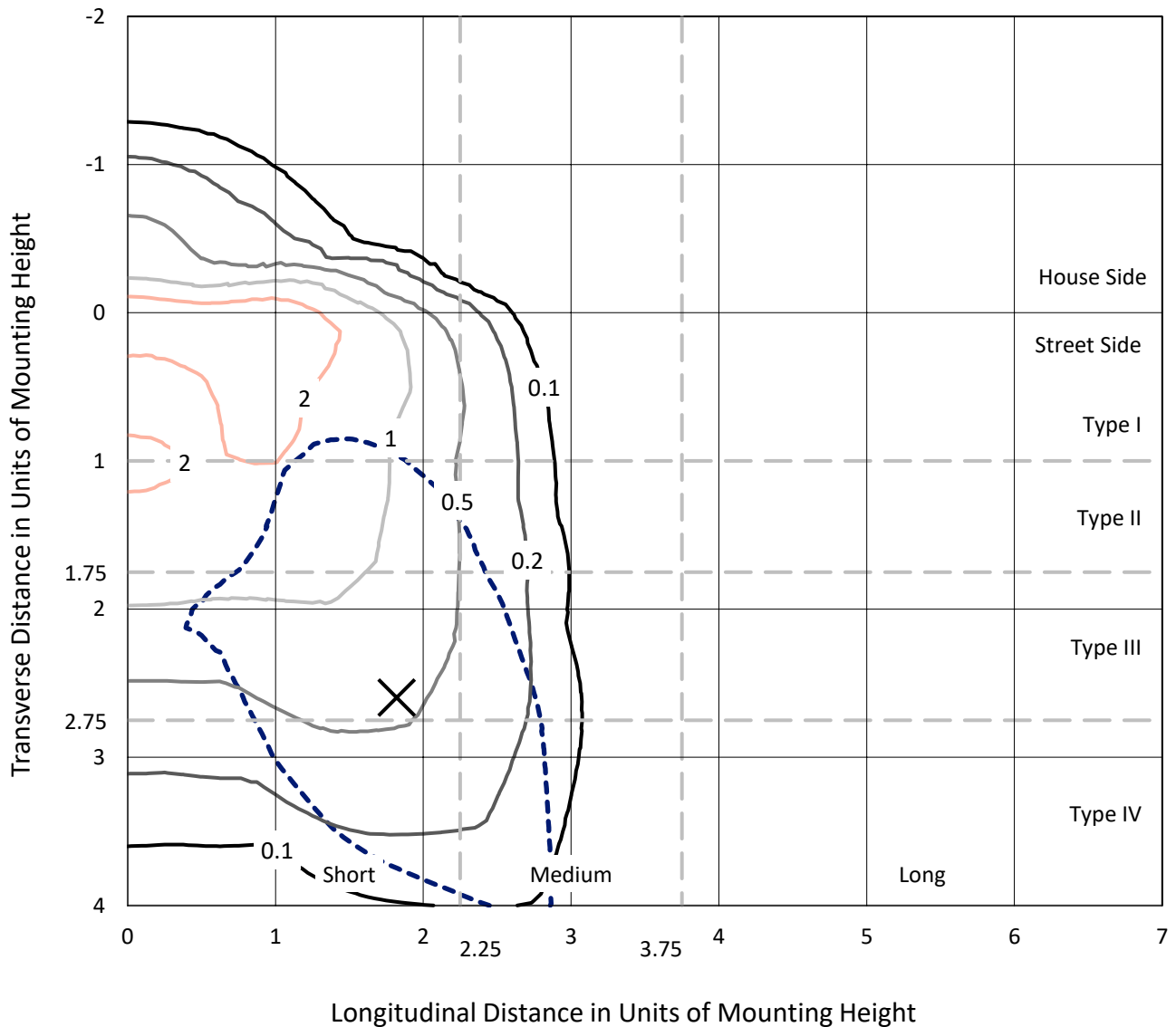
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

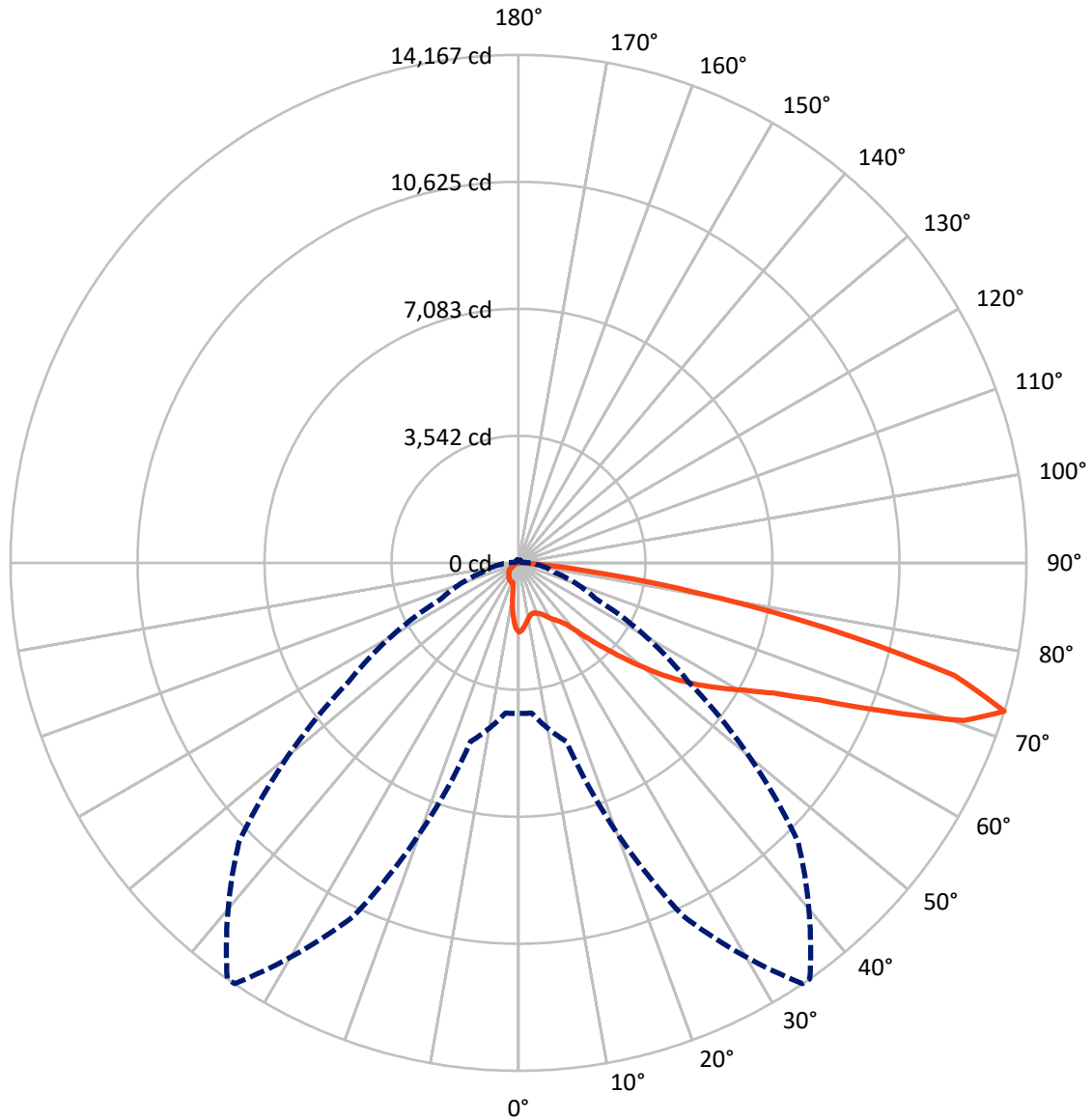
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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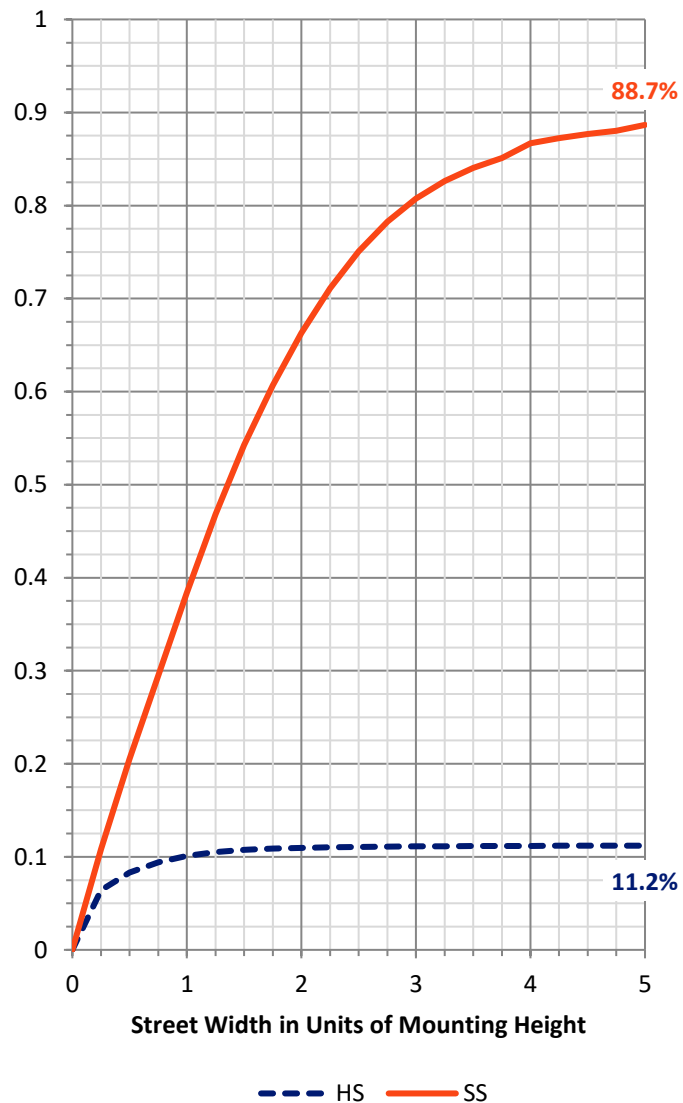
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1503.3   | 0.0    | 1503.3  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 11853.7  | 0.0    | 11853.7 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 13357.0  | 0.0    | 13357.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 159.1   | 1.2       |
| 10°-20°   | 372.1   | 2.8       |
| 20°-30°   | 604.5   | 4.5       |
| 30°-40°   | 1008.7  | 7.6       |
| 40°-50°   | 1908.4  | 14.3      |
| 50°-60°   | 3032.5  | 22.7      |
| 60°-70°   | 3751.4  | 28.1      |
| 70°-80°   | 2331.9  | 17.5      |
| 80°-90°   | 188.5   | 1.4       |
| 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°    | 13357.0 | 100.0     |
| 0°-180°   | 13357.0 | 100.0     |

**Coefficient of Utilization**



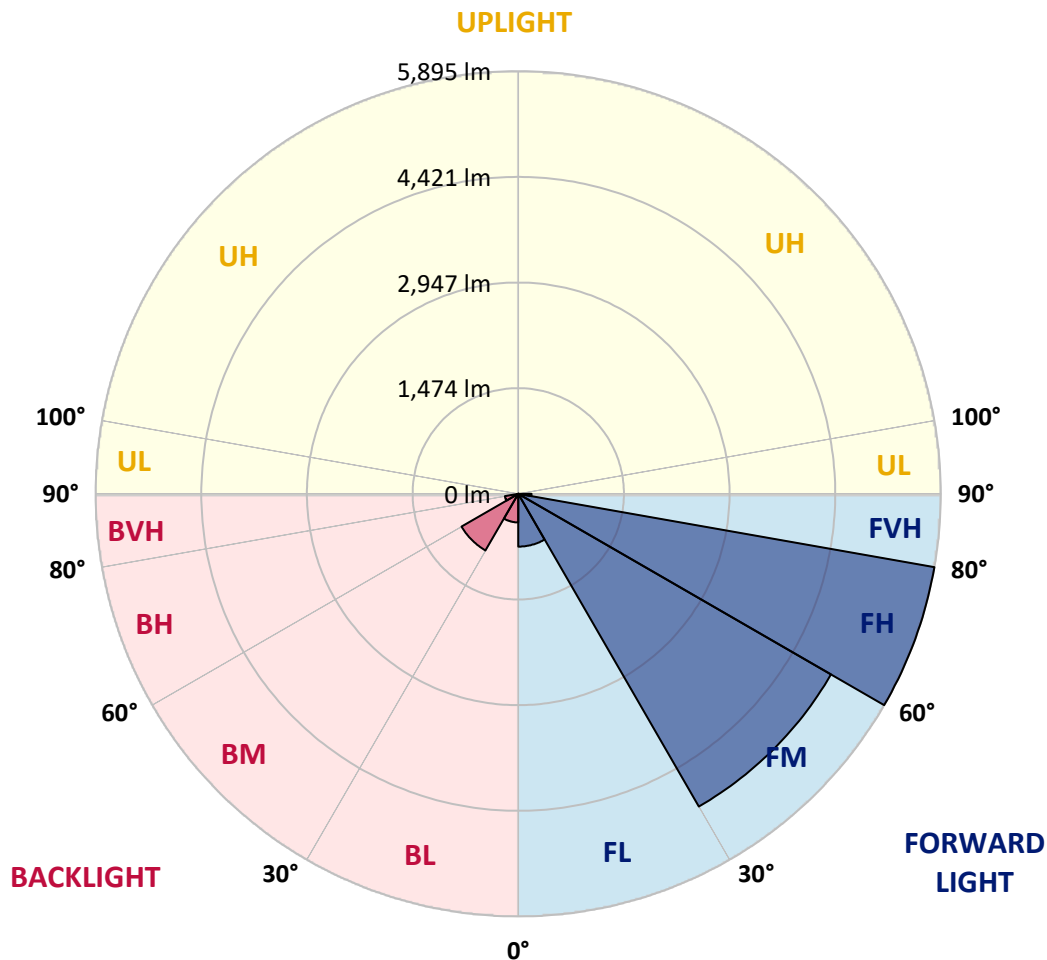
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 736.3  | 5.5       |                         |      |         |
| FM (30°-60°)   | 5036.9 | 37.7      |                         |      |         |
| FH (60°-80°)   | 5894.6 | 44.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 185.9  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 399.4  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 912.6  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 188.6  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.6    | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 34°     | 35°     | 45°     | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 1935.9 | 1935.9 | 1935.9 | 1935.9  | 1935.9  | 1935.9  | 1935.9  | 1935.9 | 1935.9 | 1935.9 |
| 2.5°  | 1849.8 | 1865.4 | 1868.3 | 1873.2  | 1873.2  | 1879.1  | 1888.9  | 1902.6 | 1925.1 | 1936.9 |
| 5°    | 1704.9 | 1716.6 | 1731.3 | 1743.1  | 1765.6  | 1768.5  | 1806.7  | 1843.9 | 1895.8 | 1934.9 |
| 7.5°  | 1559.1 | 1572.8 | 1592.4 | 1620.7  | 1650.1  | 1658.9  | 1716.6  | 1779.3 | 1861.5 | 1934.9 |
| 10°   | 1456.3 | 1457.3 | 1474.9 | 1503.3  | 1550.3  | 1561.0  | 1631.5  | 1720.6 | 1823.3 | 1923.2 |
| 12.5° | 1398.6 | 1405.4 | 1413.2 | 1434.8  | 1479.8  | 1486.7  | 1562.0  | 1666.7 | 1785.2 | 1916.3 |
| 15°   | 1398.6 | 1403.5 | 1408.4 | 1419.1  | 1455.3  | 1461.2  | 1527.8  | 1632.5 | 1765.6 | 1919.2 |
| 17.5° | 1413.2 | 1421.1 | 1417.2 | 1429.9  | 1468.1  | 1472.0  | 1530.7  | 1622.7 | 1764.6 | 1937.8 |
| 20°   | 1448.5 | 1454.4 | 1446.5 | 1454.4  | 1492.5  | 1500.4  | 1561.0  | 1641.3 | 1781.2 | 1970.1 |
| 22.5° | 1504.3 | 1507.2 | 1488.6 | 1494.5  | 1533.6  | 1543.4  | 1613.9  | 1694.1 | 1821.4 | 2022.0 |
| 25°   | 1574.7 | 1580.6 | 1552.2 | 1559.1  | 1596.3  | 1608.0  | 1689.2  | 1773.4 | 1885.0 | 2093.4 |
| 27.5° | 1656.0 | 1658.9 | 1634.4 | 1633.5  | 1681.4  | 1698.1  | 1780.3  | 1871.3 | 1970.1 | 2183.5 |
| 30°   | 1748.9 | 1757.8 | 1734.3 | 1730.3  | 1791.0  | 1804.7  | 1886.0  | 1991.7 | 2095.4 | 2318.6 |
| 32.5° | 1822.3 | 1829.2 | 1815.5 | 1825.3  | 1886.9  | 1897.7  | 2014.2  | 2162.0 | 2292.1 | 2510.4 |
| 35°   | 1928.0 | 1932.0 | 1900.6 | 1918.3  | 1988.7  | 2016.1  | 2189.4  | 2400.8 | 2539.7 | 2751.1 |
| 37.5° | 2310.7 | 2310.7 | 2177.6 | 2090.5  | 2158.0  | 2182.5  | 2429.1  | 2701.2 | 2845.1 | 3074.1 |
| 40°   | 2840.2 | 2831.4 | 2636.6 | 2458.5  | 2449.7  | 2497.7  | 2770.7  | 3080.0 | 3239.5 | 3461.7 |
| 42.5° | 3404.9 | 3391.2 | 3126.0 | 2949.8  | 2920.5  | 2937.1  | 3165.1  | 3546.8 | 3709.3 | 3934.4 |
| 45°   | 3906.0 | 3902.1 | 3659.4 | 3422.5  | 3369.7  | 3422.5  | 3657.4  | 4092.9 | 4209.4 | 4446.3 |
| 47.5° | 4325.9 | 4325.9 | 4148.7 | 3994.1  | 3966.7  | 3998.0  | 4323.9  | 4698.8 | 4688.0 | 4991.4 |
| 50°   | 4809.4 | 4805.4 | 4637.1 | 4570.5  | 4598.9  | 4643.0  | 5091.2  | 5336.9 | 5183.2 | 5526.7 |
| 52.5° | 5148.0 | 5171.5 | 5113.7 | 5103.0  | 5247.8  | 5324.2  | 5870.3  | 5961.3 | 5626.6 | 6034.7 |
| 55°   | 5416.1 | 5443.6 | 5510.1 | 5585.5  | 5864.4  | 5964.2  | 6624.8  | 6553.4 | 5997.5 | 6475.1 |
| 57.5° | 5795.9 | 5756.7 | 5859.5 | 6008.3  | 6459.4  | 6579.8  | 7355.9  | 7112.2 | 6296.0 | 6832.3 |
| 60°   | 6256.9 | 6262.7 | 6280.3 | 6468.3  | 7053.5  | 7208.2  | 8076.3  | 7640.7 | 6487.8 | 7051.6 |
| 62.5° | 6810.8 | 6819.6 | 6855.8 | 7144.5  | 7851.2  | 7997.0  | 8843.6  | 8073.3 | 6575.9 | 6989.9 |
| 65°   | 6772.6 | 6809.8 | 7214.0 | 8201.5  | 9063.8  | 9207.7  | 9739.1  | 8376.7 | 6442.8 | 6426.2 |
| 67.5° | 6169.8 | 6230.4 | 6906.7 | 9464.1  | 10892.0 | 11052.5 | 10821.5 | 8436.4 | 5868.3 | 4997.3 |
| 70°   | 5379.0 | 5400.5 | 6213.8 | 10599.4 | 13008.9 | 13171.4 | 11790.5 | 7779.7 | 4453.1 | 2787.3 |
| 72.5° | 4200.6 | 4205.5 | 5159.7 | 10862.6 | 14157.9 | 14166.7 | 11030.0 | 5775.3 | 2394.9 | 1070.7 |
| 75°   | 3000.7 | 2971.3 | 3455.8 | 8809.3  | 12456.0 | 12555.8 | 8269.1  | 2709.1 | 915.1  | 506.0  |
| 77.5° | 1609.0 | 1641.3 | 1955.5 | 5224.3  | 8604.8  | 8775.1  | 4511.8  | 781.0  | 465.9  | 344.5  |
| 80°   | 497.2  | 524.6  | 801.6  | 2392.0  | 4873.9  | 4976.7  | 1672.6  | 347.4  | 324.9  | 245.7  |
| 82.5° | 156.6  | 162.5  | 373.9  | 1005.1  | 2023.0  | 2070.0  | 484.5   | 196.7  | 222.2  | 162.5  |
| 85°   | 45.0   | 46.0   | 166.4  | 374.8   | 500.1   | 509.9   | 136.0   | 76.3   | 127.2  | 100.8  |
| 87.5° | 4.9    | 15.7   | 62.6   | 62.6    | 44.0    | 43.1    | 14.7    | 16.6   | 36.2   | 12.7   |
| 90°   | 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):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1935.9 | 0°    | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 | 1935.9 |
| 1944.7 | 2.5°  | 1939.8 | 1940.8 | 1928.0 | 1906.5 | 1883.0 | 1863.5 | 1839.0 | 1819.4 | 1805.7 | 1801.8 |
| 1962.3 | 5°    | 1953.5 | 1946.6 | 1910.4 | 1844.9 | 1766.6 | 1699.0 | 1623.7 | 1564.0 | 1524.8 | 1508.2 |
| 1980.9 | 7.5°  | 1974.0 | 1954.5 | 1875.2 | 1746.0 | 1596.3 | 1463.2 | 1328.1 | 1223.4 | 1156.8 | 1123.6 |
| 1998.5 | 10°   | 1991.7 | 1952.5 | 1816.5 | 1603.1 | 1374.1 | 1172.5 | 990.4  | 864.2  | 793.7  | 760.5  |
| 2019.1 | 12.5° | 2008.3 | 1951.5 | 1740.1 | 1433.8 | 1123.6 | 876.9  | 707.6  | 645.0  | 625.4  | 618.5  |
| 2052.3 | 15°   | 2039.6 | 1954.5 | 1644.2 | 1240.0 | 874.0  | 662.6  | 600.9  | 599.9  | 603.9  | 601.9  |
| 2103.2 | 17.5° | 2082.7 | 1957.4 | 1535.6 | 1034.5 | 674.3  | 584.3  | 581.4  | 590.2  | 596.0  | 593.1  |
| 2166.9 | 20°   | 2138.5 | 1969.2 | 1420.1 | 830.9  | 579.4  | 564.7  | 571.6  | 579.4  | 584.3  | 579.4  |
| 2252.0 | 22.5° | 2216.8 | 1989.7 | 1293.8 | 667.5  | 549.1  | 553.0  | 558.8  | 567.6  | 572.5  | 565.7  |
| 2360.6 | 25°   | 2312.7 | 2022.0 | 1169.6 | 580.4  | 534.4  | 539.3  | 548.1  | 557.9  | 563.7  | 556.9  |
| 2497.7 | 27.5° | 2437.0 | 2073.9 | 1055.0 | 560.8  | 519.7  | 522.6  | 535.4  | 550.0  | 557.9  | 549.1  |
| 2692.4 | 30°   | 2617.1 | 2159.0 | 956.2  | 569.6  | 510.9  | 504.0  | 521.6  | 542.2  | 551.0  | 543.2  |
| 2957.6 | 32.5° | 2855.9 | 2279.4 | 895.5  | 583.3  | 507.0  | 482.5  | 499.1  | 525.6  | 540.2  | 535.4  |
| 3304.1 | 35°   | 3169.0 | 2462.4 | 872.0  | 599.0  | 504.0  | 460.0  | 471.7  | 500.1  | 525.6  | 530.5  |
| 3740.6 | 37.5° | 3548.8 | 2716.9 | 878.9  | 605.8  | 495.2  | 441.4  | 447.3  | 471.7  | 505.0  | 520.7  |
| 4231.9 | 40°   | 3980.4 | 3013.4 | 918.0  | 599.0  | 485.4  | 425.7  | 426.7  | 445.3  | 474.7  | 498.2  |
| 4760.4 | 42.5° | 4425.7 | 3359.9 | 990.4  | 573.5  | 476.6  | 412.0  | 409.1  | 421.8  | 441.4  | 458.0  |
| 5287.9 | 45°   | 4849.5 | 3716.1 | 1061.9 | 538.3  | 465.9  | 398.3  | 391.5  | 396.4  | 400.3  | 407.1  |
| 5801.8 | 47.5° | 5219.4 | 3966.7 | 1041.3 | 506.0  | 451.2  | 382.7  | 370.9  | 369.0  | 357.2  | 356.2  |
| 6260.8 | 50°   | 5474.9 | 4021.5 | 924.9  | 473.7  | 429.7  | 365.1  | 346.5  | 334.7  | 314.2  | 304.4  |
| 6604.3 | 52.5° | 5556.1 | 3805.2 | 755.6  | 441.4  | 394.4  | 341.6  | 315.1  | 296.5  | 271.1  | 262.3  |
| 6802.0 | 55°   | 5448.4 | 3381.4 | 603.9  | 402.2  | 345.5  | 310.2  | 280.9  | 256.4  | 235.9  | 225.1  |
| 6823.5 | 57.5° | 5185.2 | 2842.2 | 477.6  | 356.2  | 293.6  | 275.0  | 245.7  | 221.2  | 203.6  | 192.8  |
| 6584.7 | 60°   | 4748.7 | 2256.9 | 377.8  | 301.4  | 250.5  | 236.8  | 206.5  | 190.8  | 175.2  | 162.5  |
| 5968.1 | 62.5° | 4086.1 | 1610.9 | 296.5  | 238.8  | 209.4  | 193.8  | 176.2  | 164.4  | 145.8  | 128.2  |
| 4859.3 | 65°   | 3188.6 | 985.6  | 229.0  | 175.2  | 168.3  | 160.5  | 149.7  | 139.0  | 116.5  | 98.8   |
| 3170.0 | 67.5° | 2011.2 | 466.8  | 163.4  | 132.1  | 133.1  | 129.2  | 124.3  | 115.5  | 98.8   | 83.2   |
| 1420.1 | 70°   | 885.7  | 226.1  | 107.7  | 100.8  | 98.8   | 98.8   | 102.8  | 99.8   | 84.2   | 69.5   |
| 493.3  | 72.5° | 301.4  | 121.4  | 80.3   | 76.3   | 71.4   | 70.5   | 86.1   | 83.2   | 67.5   | 53.8   |
| 245.7  | 75°   | 157.6  | 81.2   | 58.7   | 54.8   | 43.1   | 51.9   | 68.5   | 64.6   | 48.0   | 35.2   |
| 162.5  | 77.5° | 102.8  | 57.7   | 40.1   | 35.2   | 24.5   | 34.3   | 50.9   | 45.0   | 28.4   | 17.6   |
| 106.7  | 80°   | 64.6   | 38.2   | 23.5   | 16.6   | 11.7   | 18.6   | 27.4   | 19.6   | 10.8   | 3.9    |
| 62.6   | 82.5° | 34.3   | 19.6   | 8.8    | 5.9    | 4.9    | 5.9    | 6.9    | 4.9    | 2.0    | 0.0    |
| 32.3   | 85°   | 13.7   | 6.9    | 2.9    | 2.0    | 1.0    | 0.0    | 2.0    | 1.0    | 0.0    | 0.0    |
| 5.9    | 87.5° | 4.9    | 1.0    | 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    |

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| 180°   |
|--------|
| 1935.9 |
| 1808.6 |
| 1514.1 |
| 1128.4 |
| 761.4  |
| 616.6  |
| 600.9  |
| 592.1  |
| 578.4  |
| 564.7  |
| 555.9  |
| 549.1  |
| 542.2  |
| 535.4  |
| 530.5  |
| 524.6  |
| 506.0  |
| 464.9  |
| 411.1  |
| 355.3  |
| 305.4  |
| 261.3  |
| 225.1  |
| 190.8  |
| 159.5  |
| 125.3  |
| 95.9   |
| 81.2   |
| 66.6   |
| 50.9   |
| 32.3   |
| 15.7   |
| 2.9    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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