

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: P526771

Luminaire Tested: **GLAN-SA1D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5318 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 65  
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



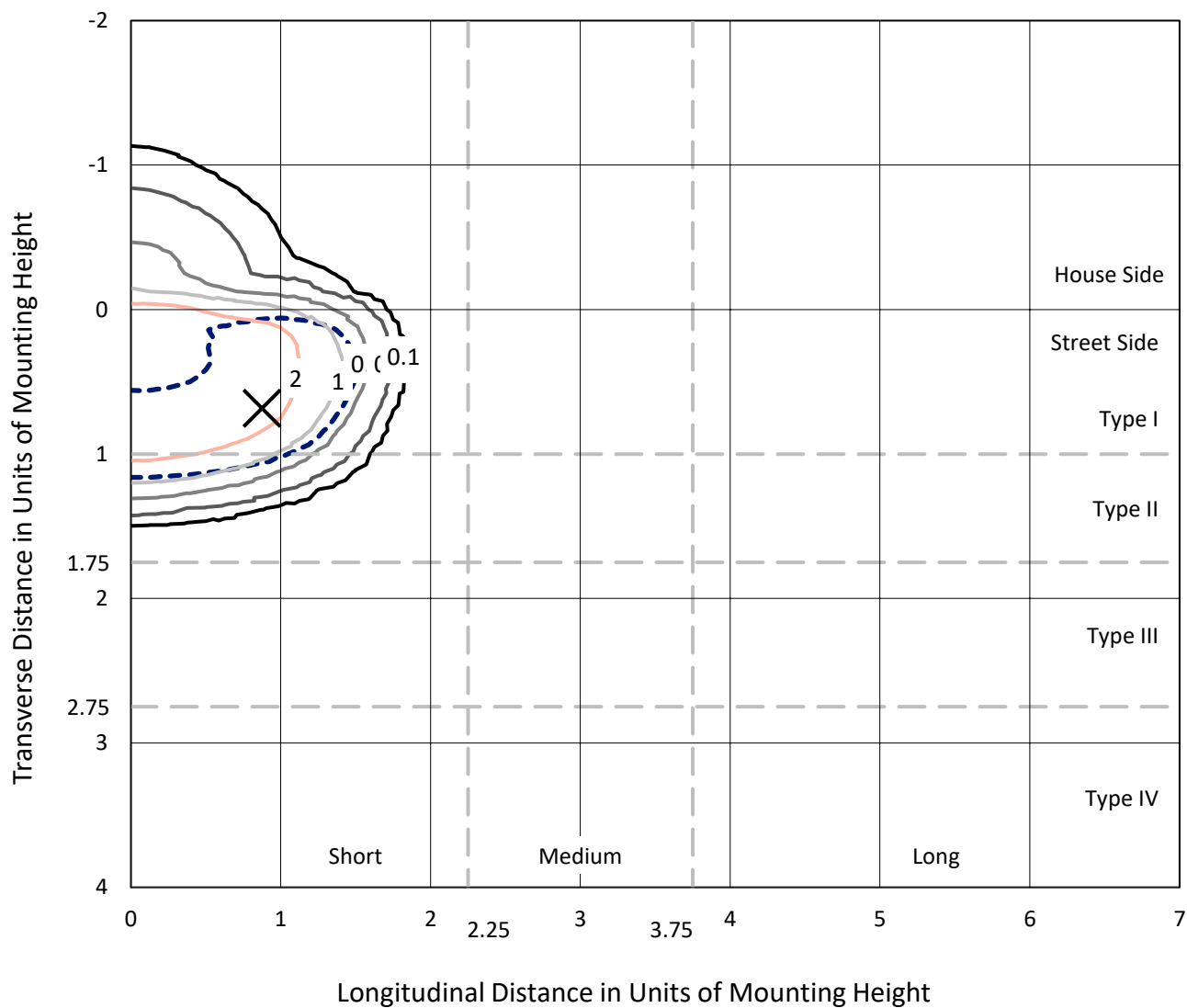
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

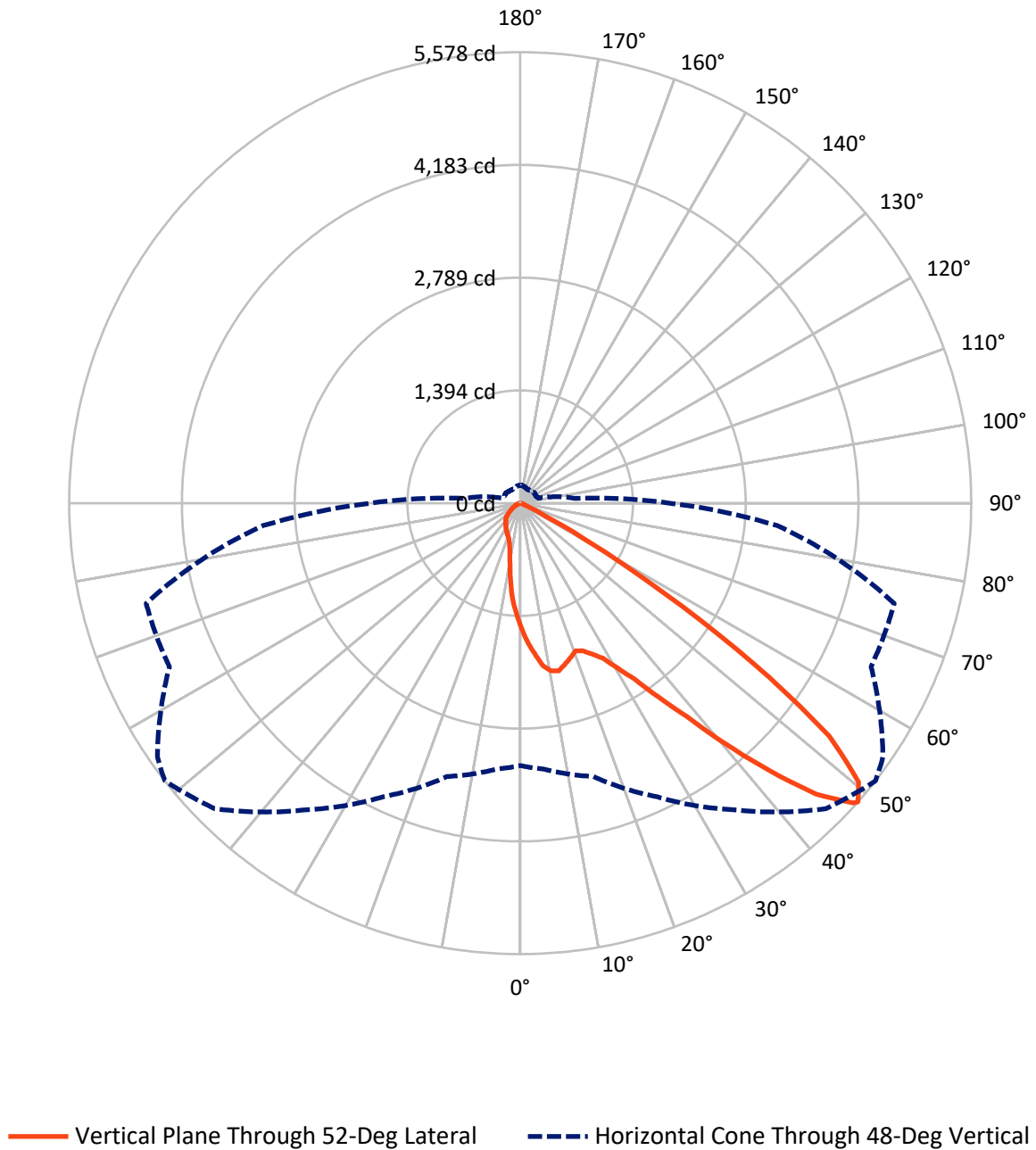


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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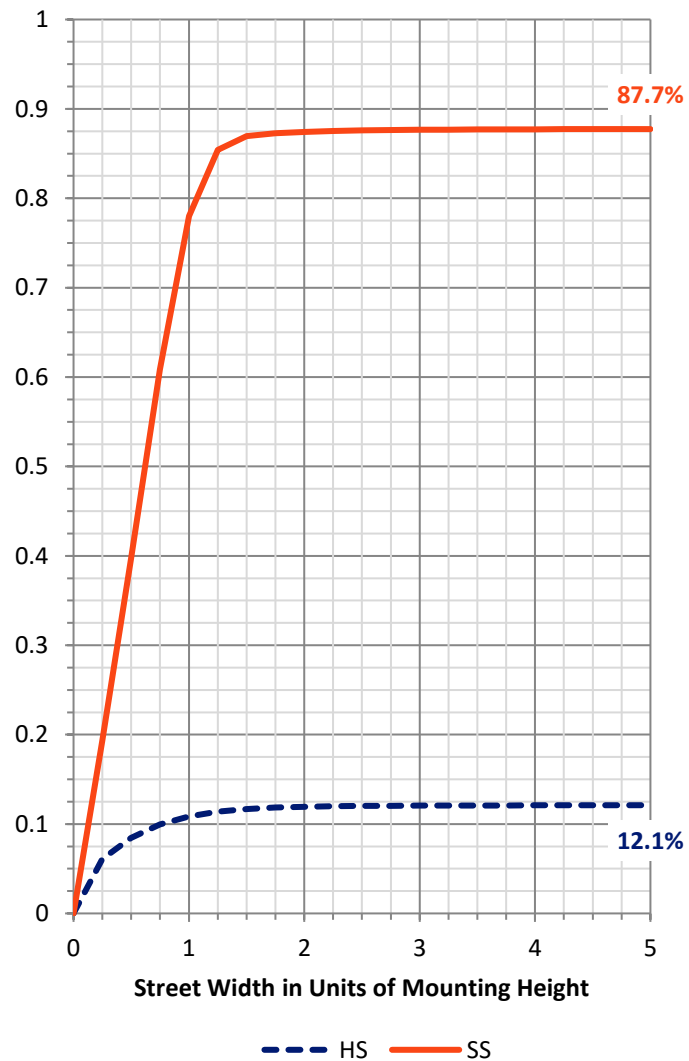
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 647.5    | 0.0    | 647.5  |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 4670.5   | 0.0    | 4670.5 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 5318.0   | 0.0    | 5318.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.6  | 2.6       |
| 10°-20°   | 367.3  | 6.9       |
| 20°-30°   | 627.2  | 11.8      |
| 30°-40°   | 1155.0 | 21.7      |
| 40°-50°   | 1793.7 | 33.7      |
| 50°-60°   | 1079.5 | 20.3      |
| 60°-70°   | 124.9  | 2.3       |
| 70°-80°   | 24.2   | 0.5       |
| 80°-90°   | 5.6    | 0.1       |
| 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°    | 5318.0 | 100.0     |
| 0°-180°   | 5318.0 | 100.0     |

**Coefficient of Utilization**



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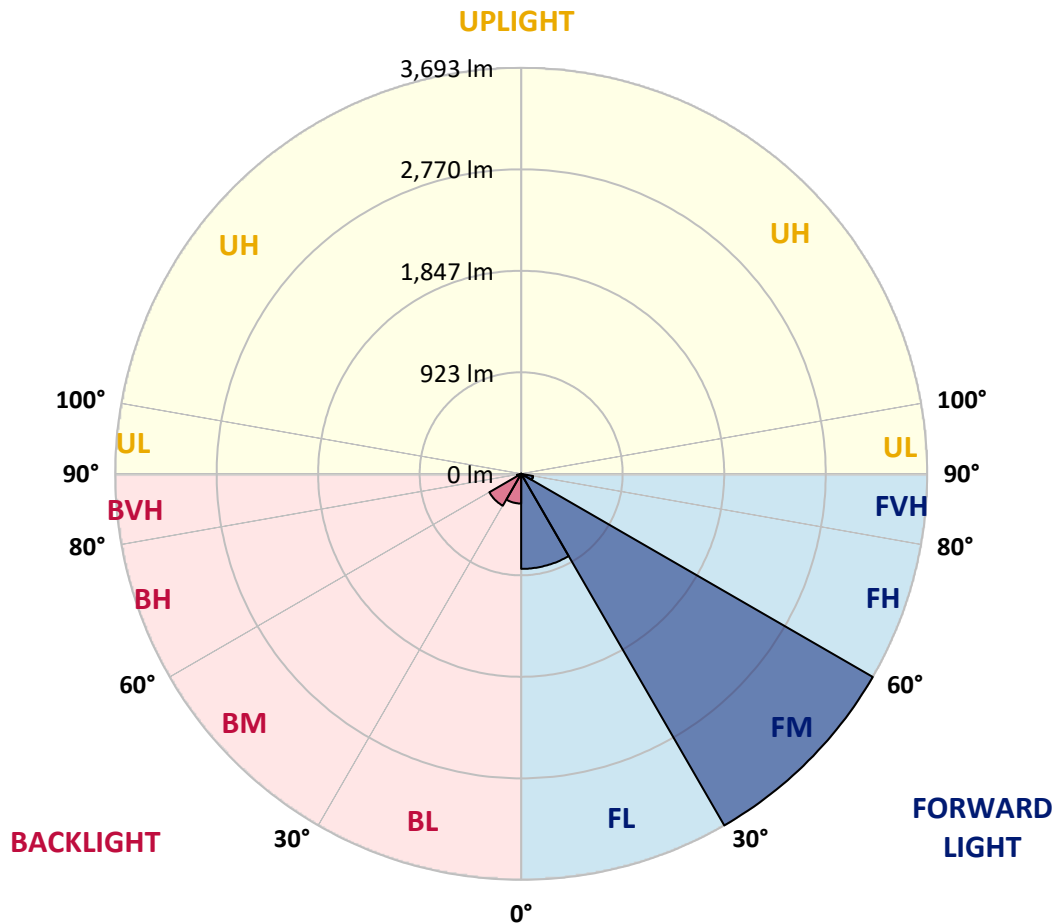
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 864.6  | 16.3      |                         |      |        |
| FM   | (30°-60°)   | 3693.2 | 69.4      |                         |      |        |
| FH   | (60°-80°)   | 109.9  | 2.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.7    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 270.5  | 5.1       | B1/500                  |      |        |
| BM   | (30°-60°)   | 335.0  | 6.3       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 39.1   | 0.7       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 2.9    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 52°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 |
| 2.5°  | 1861.4 | 1818.7 | 1822.6 | 1794.7 | 1778.4 | 1752.0 | 1716.4 | 1709.4 | 1670.6 | 1617.9 | 1564.4 |
| 5°    | 2028.8 | 2018.7 | 2031.9 | 1991.6 | 1993.1 | 1949.7 | 1866.0 | 1867.6 | 1778.4 | 1692.3 | 1609.4 |
| 7.5°  | 2039.7 | 2016.4 | 2029.6 | 2065.2 | 2086.2 | 2078.4 | 2031.1 | 1990.0 | 1905.5 | 1779.2 | 1658.2 |
| 10°   | 1826.5 | 1870.7 | 1884.6 | 1943.5 | 2027.3 | 2115.6 | 2110.2 | 2112.5 | 2042.0 | 1876.9 | 1700.1 |
| 12.5° | 1698.6 | 1669.1 | 1716.4 | 1752.0 | 1878.4 | 2049.7 | 2128.0 | 2145.1 | 2150.5 | 1971.4 | 1742.0 |
| 15°   | 1640.4 | 1640.4 | 1648.2 | 1658.2 | 1749.7 | 1907.9 | 2067.6 | 2117.2 | 2234.2 | 2095.5 | 1807.9 |
| 17.5° | 1676.8 | 1675.3 | 1686.1 | 1665.2 | 1699.3 | 1821.0 | 2011.7 | 2068.3 | 2328.0 | 2217.2 | 1859.8 |
| 20°   | 1787.7 | 1793.1 | 1786.2 | 1725.7 | 1728.0 | 1819.5 | 1949.7 | 2038.9 | 2391.6 | 2322.6 | 1928.8 |
| 22.5° | 1942.0 | 1945.1 | 1905.5 | 1839.6 | 1820.3 | 1865.2 | 1985.4 | 2053.6 | 2442.8 | 2449.0 | 1949.7 |
| 25°   | 2120.3 | 2107.9 | 2100.1 | 2007.1 | 1948.2 | 1986.9 | 2066.0 | 2105.6 | 2474.6 | 2557.5 | 2009.4 |
| 27.5° | 2367.6 | 2342.8 | 2295.5 | 2212.5 | 2169.1 | 2114.1 | 2170.7 | 2235.8 | 2565.3 | 2709.5 | 2074.5 |
| 30°   | 2732.7 | 2711.0 | 2618.8 | 2511.8 | 2397.8 | 2343.5 | 2361.4 | 2397.0 | 2728.8 | 2885.4 | 2160.6 |
| 32.5° | 3282.4 | 3236.6 | 3103.3 | 2899.4 | 2744.3 | 2594.7 | 2590.1 | 2628.1 | 2875.4 | 3128.9 | 2262.9 |
| 35°   | 3887.8 | 3873.9 | 3677.7 | 3467.6 | 3167.6 | 2936.6 | 2940.5 | 2960.6 | 3156.0 | 3448.3 | 2397.0 |
| 37.5° | 4290.2 | 4366.9 | 4242.1 | 4016.5 | 3764.6 | 3434.3 | 3350.6 | 3357.6 | 3541.3 | 3826.6 | 2638.9 |
| 40°   | 4601.0 | 4535.9 | 4550.7 | 4497.9 | 4325.8 | 4101.0 | 3915.7 | 3879.3 | 3987.1 | 4245.2 | 2879.2 |
| 42.5° | 4465.4 | 4468.5 | 4559.2 | 4684.0 | 4726.6 | 4710.4 | 4521.2 | 4452.2 | 4368.5 | 4587.9 | 3107.9 |
| 45°   | 4082.4 | 4162.3 | 4280.1 | 4610.4 | 4900.3 | 5172.4 | 5135.2 | 5020.5 | 4632.1 | 4859.2 | 3239.7 |
| 47.5° | 3471.5 | 3468.4 | 3661.5 | 4090.9 | 4735.2 | 5372.4 | 5541.4 | 5460.8 | 4818.9 | 4829.0 | 3212.6 |
| 48°   | 3245.9 | 3301.7 | 3501.0 | 4006.4 | 4630.5 | 5343.0 | 5577.9 | 5476.3 | 4787.1 | 4788.7 | 3189.3 |
| 50°   | 2399.4 | 2389.3 | 2637.4 | 3257.6 | 4135.9 | 5020.5 | 5424.4 | 5503.4 | 4786.3 | 4584.8 | 3026.5 |
| 52.5° | 1267.5 | 1310.9 | 1491.6 | 2048.2 | 2924.2 | 4108.8 | 4784.8 | 4908.0 | 4617.3 | 4251.4 | 2792.4 |
| 55°   | 538.8  | 486.9  | 625.6  | 924.9  | 1645.1 | 2745.1 | 3510.3 | 3784.7 | 3904.1 | 3762.2 | 2442.8 |
| 57.5° | 192.3  | 210.1  | 241.9  | 348.1  | 691.5  | 1502.4 | 2093.1 | 2306.3 | 2704.8 | 2760.6 | 1664.4 |
| 60°   | 123.3  | 125.6  | 135.7  | 159.7  | 259.7  | 579.1  | 993.1  | 1162.9 | 1343.5 | 1386.9 | 776.8  |
| 62.5° | 95.4   | 96.1   | 100.8  | 104.7  | 123.3  | 224.8  | 372.9  | 441.9  | 458.9  | 394.6  | 203.9  |
| 65°   | 79.8   | 80.6   | 82.2   | 82.2   | 87.6   | 105.4  | 130.2  | 143.4  | 139.5  | 138.0  | 115.5  |
| 67.5° | 61.2   | 62.8   | 65.9   | 65.9   | 69.0   | 64.3   | 72.1   | 76.7   | 86.8   | 105.4  | 98.5   |
| 70°   | 48.1   | 48.8   | 51.2   | 52.7   | 52.7   | 46.5   | 51.9   | 56.6   | 63.6   | 78.3   | 77.5   |
| 72.5° | 37.2   | 38.8   | 40.3   | 40.3   | 38.0   | 31.8   | 37.2   | 41.1   | 45.7   | 54.3   | 52.7   |
| 75°   | 28.7   | 28.7   | 29.5   | 24.0   | 18.6   | 16.3   | 22.5   | 27.1   | 34.1   | 35.7   | 29.5   |
| 77.5° | 7.8    | 8.5    | 7.8    | 7.0    | 7.8    | 11.6   | 14.7   | 17.1   | 21.7   | 21.7   | 19.4   |
| 80°   | 0.0    | 0.8    | 2.3    | 4.7    | 7.8    | 10.9   | 13.2   | 14.7   | 17.1   | 18.6   | 17.8   |
| 82.5° | 0.0    | 0.8    | 2.3    | 4.7    | 7.0    | 8.5    | 11.6   | 12.4   | 14.0   | 16.3   | 16.3   |
| 85°   | 0.0    | 0.8    | 1.6    | 3.1    | 4.7    | 5.4    | 5.4    | 4.7    | 4.7    | 3.9    | 3.1    |
| 87.5° | 0.0    | 0.0    | 0.8    | 1.6    | 1.6    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 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°    | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 | 1535.8 |
| 2.5°  | 1543.5 | 1519.5 | 1483.0 | 1425.7 | 1370.6 | 1335.0 | 1300.9 | 1262.9 | 1241.9 | 1240.4 | 1228.8 |
| 5°    | 1562.1 | 1507.8 | 1421.0 | 1322.6 | 1217.1 | 1126.4 | 1034.9 | 975.3  | 921.8  | 892.3  | 886.9  |
| 7.5°  | 1572.2 | 1501.6 | 1361.3 | 1196.2 | 1016.3 | 868.3  | 765.9  | 690.7  | 661.3  | 639.6  | 638.8  |
| 10°   | 1593.1 | 1490.8 | 1272.2 | 1028.7 | 806.2  | 656.6  | 586.1  | 552.0  | 535.7  | 529.5  | 520.2  |
| 12.5° | 1608.6 | 1470.6 | 1180.7 | 856.6  | 637.2  | 544.2  | 513.2  | 505.5  | 506.2  | 509.3  | 505.5  |
| 15°   | 1630.3 | 1452.8 | 1057.4 | 703.1  | 534.9  | 490.0  | 490.0  | 491.5  | 502.4  | 503.9  | 503.1  |
| 17.5° | 1628.8 | 1417.9 | 930.3  | 579.1  | 472.9  | 466.7  | 469.0  | 483.7  | 490.7  | 493.1  | 487.6  |
| 20°   | 1647.4 | 1385.4 | 799.3  | 494.6  | 438.0  | 447.3  | 462.8  | 466.7  | 475.2  | 476.8  | 470.6  |
| 22.5° | 1642.0 | 1304.0 | 677.6  | 427.9  | 411.7  | 429.5  | 445.0  | 449.6  | 447.3  | 442.7  | 441.9  |
| 25°   | 1631.9 | 1234.2 | 565.9  | 383.7  | 392.3  | 411.7  | 426.4  | 417.9  | 413.2  | 414.0  | 414.8  |
| 27.5° | 1614.0 | 1145.8 | 473.7  | 352.7  | 365.9  | 394.6  | 393.8  | 390.7  | 395.4  | 391.5  | 395.4  |
| 30°   | 1610.9 | 1057.4 | 397.7  | 324.8  | 346.5  | 367.5  | 369.0  | 374.4  | 379.9  | 372.9  | 379.9  |
| 32.5° | 1615.6 | 960.5  | 343.4  | 307.8  | 334.9  | 335.7  | 352.7  | 358.2  | 354.3  | 338.8  | 340.3  |
| 35°   | 1651.3 | 886.1  | 303.9  | 298.5  | 316.3  | 317.1  | 333.4  | 326.4  | 309.3  | 300.0  | 305.4  |
| 37.5° | 1726.5 | 824.1  | 285.3  | 289.9  | 291.5  | 301.6  | 302.3  | 288.4  | 289.9  | 289.2  | 292.3  |
| 40°   | 1822.6 | 776.8  | 272.1  | 282.2  | 280.6  | 287.6  | 259.7  | 267.5  | 274.4  | 276.8  | 278.3  |
| 42.5° | 1888.5 | 742.7  | 263.6  | 269.8  | 266.7  | 254.3  | 238.8  | 246.5  | 252.0  | 260.5  | 262.0  |
| 45°   | 1917.9 | 715.5  | 253.5  | 248.1  | 248.1  | 225.6  | 219.4  | 220.9  | 233.3  | 242.7  | 241.1  |
| 47.5° | 1869.9 | 689.2  | 235.7  | 219.4  | 224.8  | 206.2  | 199.2  | 199.2  | 212.4  | 224.0  | 221.7  |
| 48°   | 1851.3 | 678.3  | 236.4  | 213.2  | 217.1  | 203.1  | 196.1  | 194.6  | 209.3  | 220.2  | 220.2  |
| 50°   | 1759.0 | 638.0  | 216.3  | 196.1  | 188.4  | 186.8  | 182.2  | 183.7  | 193.0  | 203.1  | 203.1  |
| 52.5° | 1579.2 | 551.2  | 183.0  | 168.2  | 154.3  | 163.6  | 165.9  | 162.8  | 167.5  | 176.8  | 176.0  |
| 55°   | 1317.9 | 423.3  | 146.5  | 139.5  | 128.7  | 138.8  | 143.4  | 139.5  | 134.9  | 141.9  | 141.9  |
| 57.5° | 844.2  | 227.9  | 117.1  | 118.6  | 107.8  | 117.8  | 121.7  | 112.4  | 103.9  | 109.3  | 108.5  |
| 60°   | 380.6  | 136.4  | 96.1   | 93.8   | 86.8   | 98.5   | 104.7  | 93.8   | 82.2   | 86.1   | 89.9   |
| 62.5° | 142.6  | 96.9   | 72.9   | 71.3   | 69.8   | 80.6   | 83.7   | 75.2   | 63.6   | 65.9   | 66.7   |
| 65°   | 104.7  | 85.3   | 58.1   | 52.7   | 55.8   | 63.6   | 62.0   | 53.5   | 45.7   | 45.7   | 47.3   |
| 67.5° | 89.2   | 74.4   | 47.3   | 41.1   | 41.1   | 41.9   | 38.8   | 34.1   | 31.8   | 33.3   | 34.9   |
| 70°   | 69.8   | 58.9   | 37.2   | 31.8   | 28.7   | 25.6   | 22.5   | 21.7   | 19.4   | 21.7   | 20.9   |
| 72.5° | 45.0   | 39.5   | 28.7   | 24.0   | 21.7   | 17.8   | 14.7   | 14.0   | 11.6   | 10.9   | 10.9   |
| 75°   | 24.0   | 24.0   | 22.5   | 19.4   | 17.1   | 14.0   | 11.6   | 9.3    | 6.2    | 4.7    | 4.7    |
| 77.5° | 17.1   | 18.6   | 20.2   | 18.6   | 15.5   | 11.6   | 9.3    | 6.2    | 3.1    | 1.6    | 1.6    |
| 80°   | 16.3   | 18.6   | 20.2   | 17.8   | 15.5   | 11.6   | 8.5    | 4.7    | 2.3    | 0.8    | 0.8    |
| 82.5° | 14.7   | 17.1   | 18.6   | 16.3   | 14.0   | 10.1   | 7.8    | 4.7    | 2.3    | 0.8    | 0.8    |
| 85°   | 3.1    | 3.9    | 4.7    | 4.7    | 5.4    | 7.0    | 5.4    | 3.9    | 1.6    | 0.8    | 0.8    |
| 87.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    |
| 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)