

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: P451386

Luminaire Tested: **GLAN-SA2B-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10402 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 82  
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

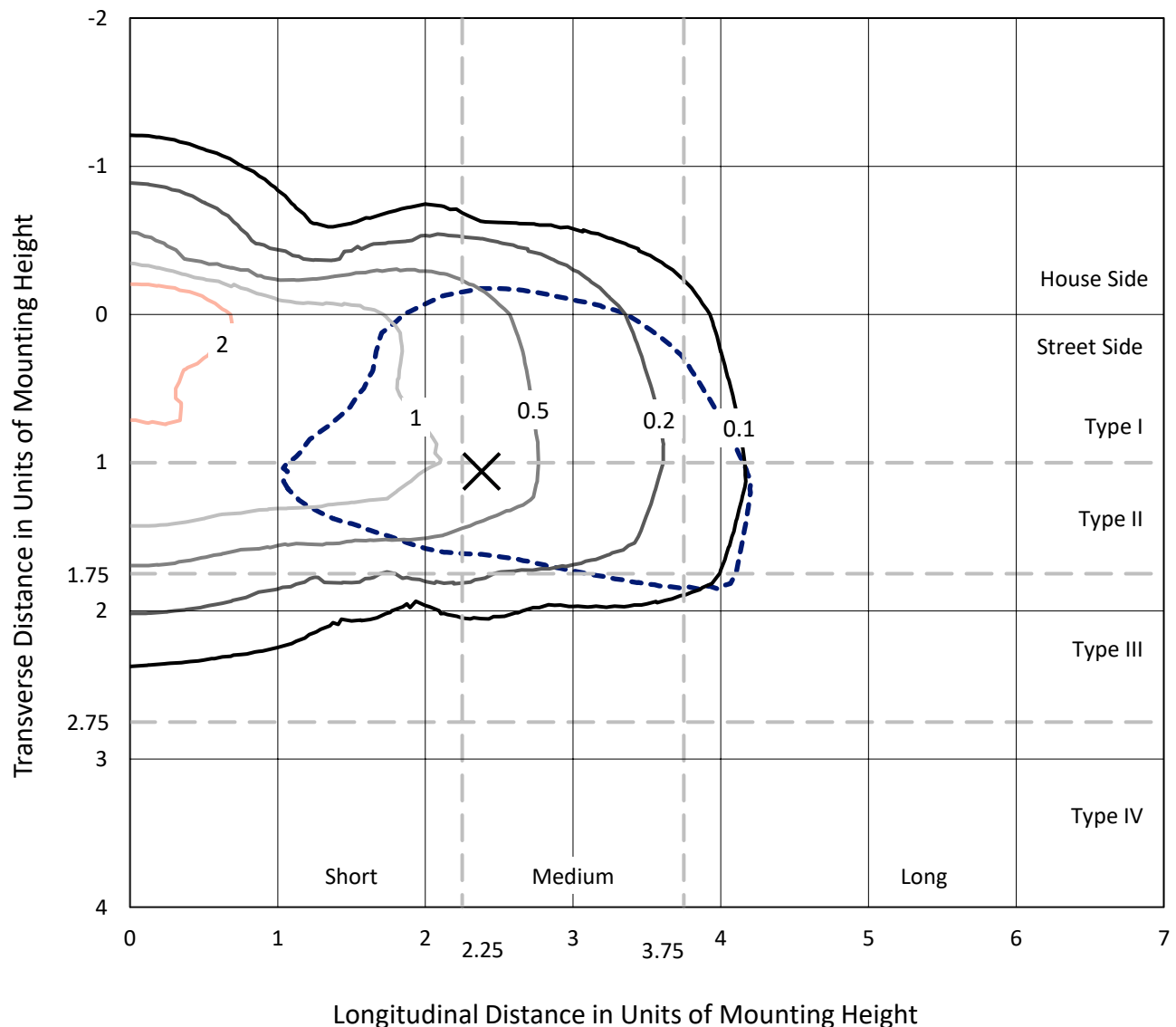


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

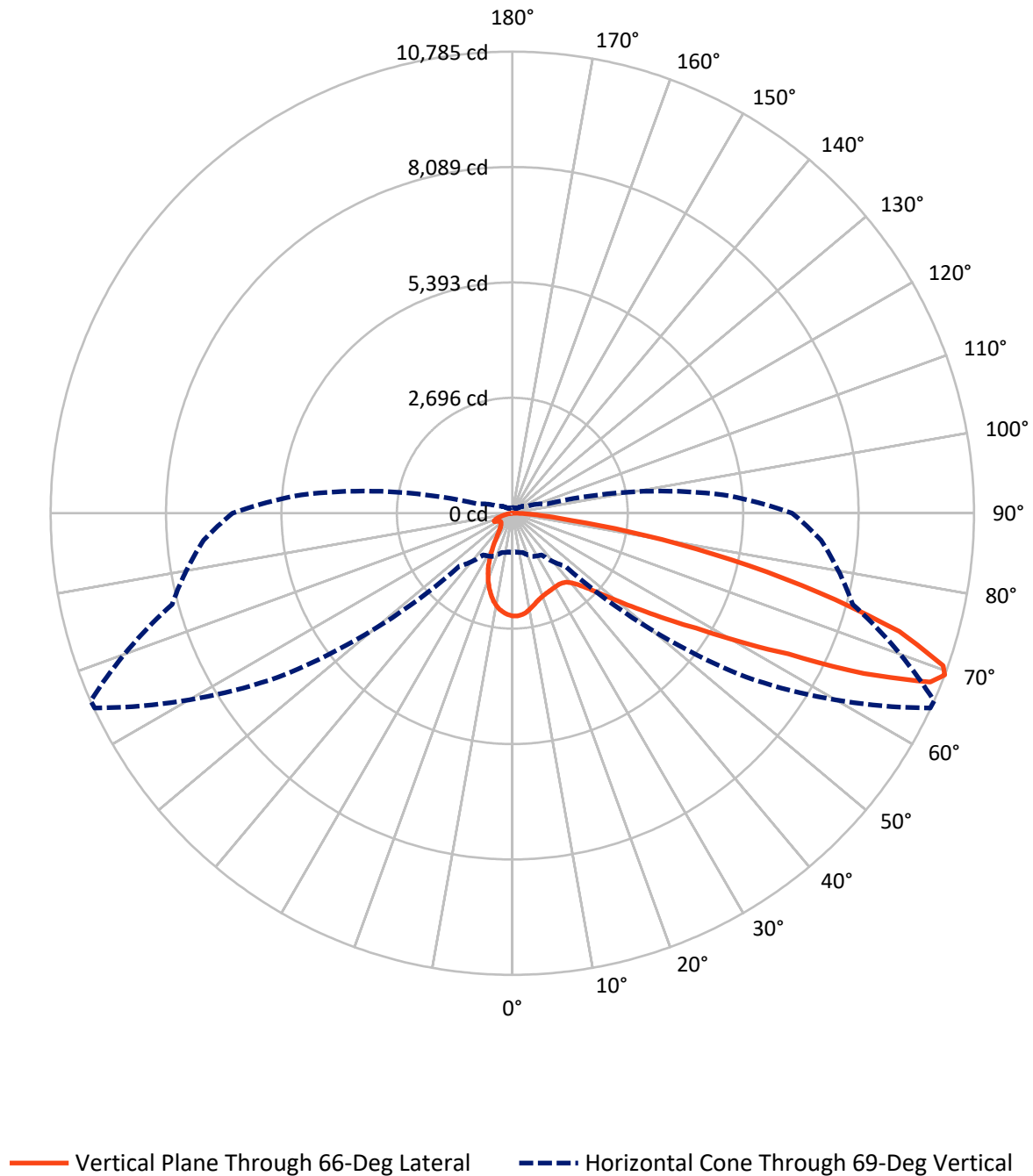


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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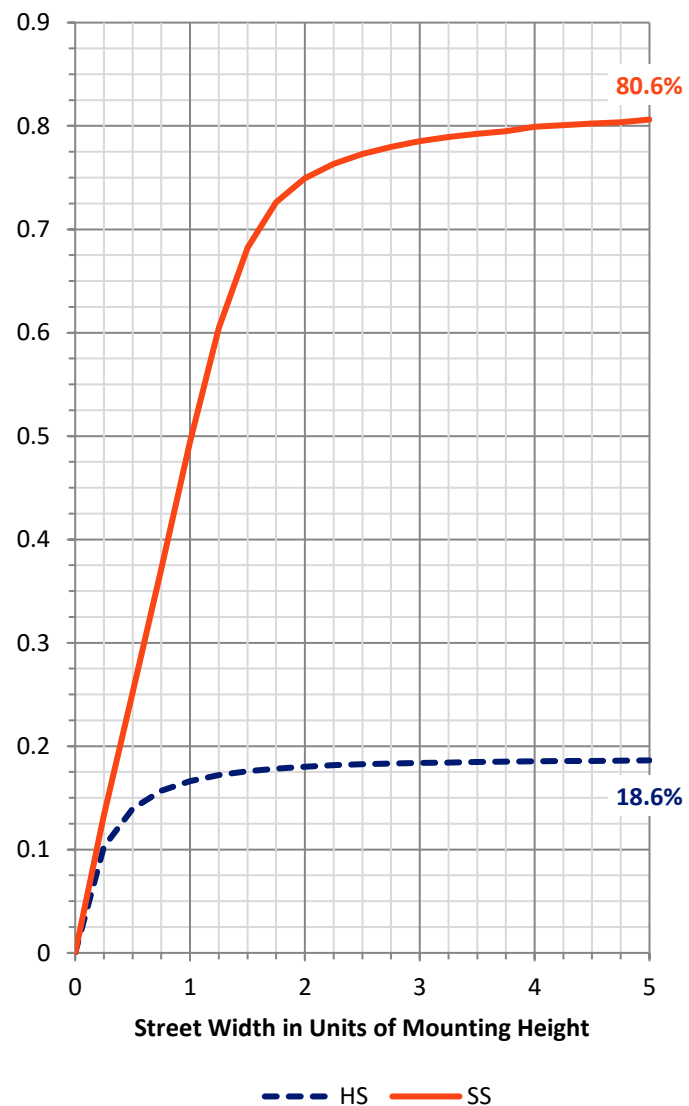
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1956.2   | 0.0    | 1956.2  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 8445.8   | 0.0    | 8445.8  |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 10402.0  | 0.0    | 10402.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 208.6   | 2.0       |
| 10°-20°   | 494.8   | 4.8       |
| 20°-30°   | 673.6   | 6.5       |
| 30°-40°   | 905.1   | 8.7       |
| 40°-50°   | 1351.5  | 13.0      |
| 50°-60°   | 2149.8  | 20.7      |
| 60°-70°   | 2644.1  | 25.4      |
| 70°-80°   | 1720.4  | 16.5      |
| 80°-90°   | 254.1   | 2.4       |
| 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°    | 10402.0 | 100.0     |
| 0°-180°   | 10402.0 | 100.0     |

**Coefficient of Utilization**



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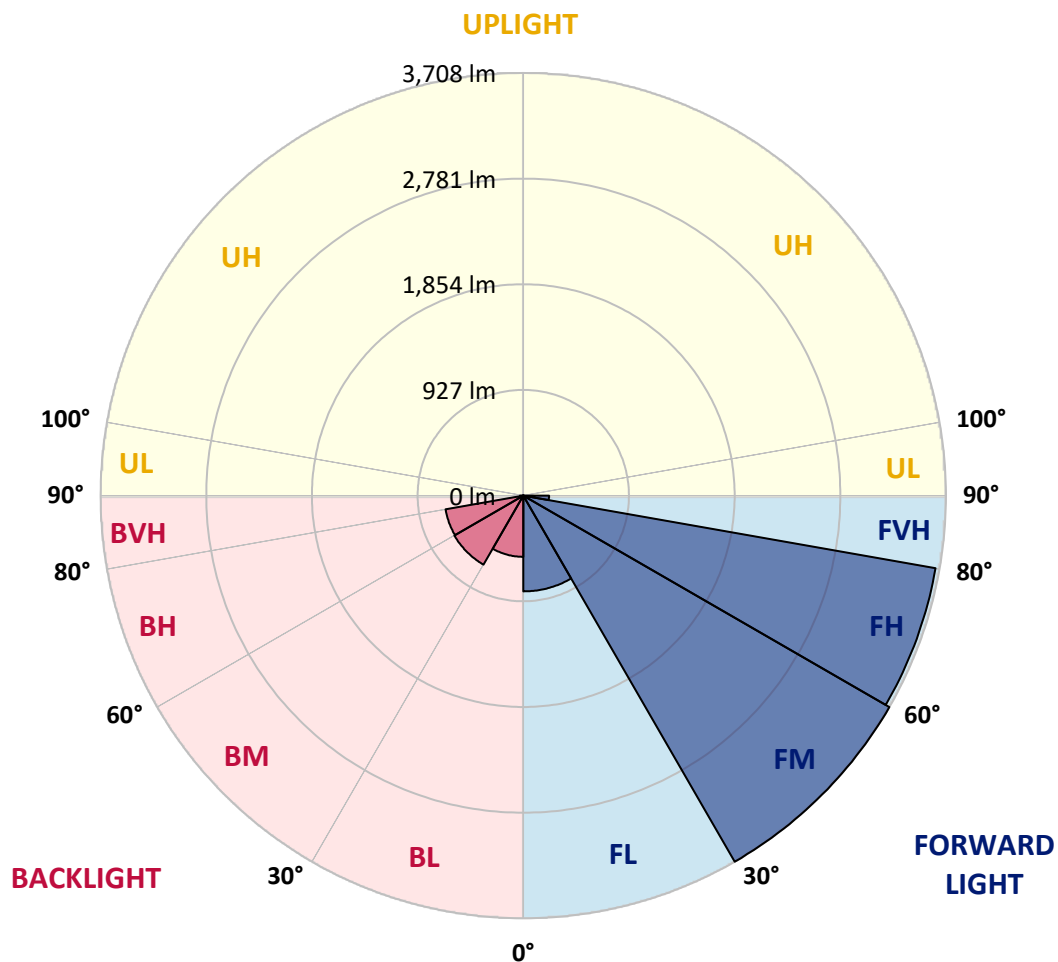
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 840.0  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 3708.0 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 3672.0 | 35.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 225.9  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 537.0  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 698.5  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 692.6  | 6.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 28.2   | 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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 66°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1  | 2402.1  | 2402.1 | 2402.1 |
| 2.5°  | 2318.0 | 2327.2 | 2337.6 | 2349.1 | 2371.0 | 2383.1 | 2391.7 | 2401.5  | 2402.7  | 2407.9 | 2403.8 |
| 5°    | 2146.9 | 2157.9 | 2173.4 | 2195.3 | 2228.1 | 2279.4 | 2332.4 | 2375.6  | 2380.8  | 2405.0 | 2411.9 |
| 7.5°  | 2004.1 | 2010.4 | 2023.1 | 2058.2 | 2104.9 | 2161.9 | 2239.1 | 2326.6  | 2339.3  | 2396.9 | 2417.1 |
| 10°   | 1887.7 | 1894.0 | 1909.0 | 1945.3 | 1991.4 | 2062.8 | 2147.5 | 2262.7  | 2273.1  | 2372.2 | 2418.2 |
| 12.5° | 1800.7 | 1806.5 | 1822.6 | 1858.3 | 1911.3 | 1978.1 | 2071.5 | 2193.6  | 2208.6  | 2339.3 | 2407.3 |
| 15°   | 1734.5 | 1745.4 | 1758.7 | 1788.0 | 1843.9 | 1908.4 | 1998.9 | 2130.2  | 2142.3  | 2304.8 | 2399.8 |
| 17.5° | 1706.2 | 1711.4 | 1720.6 | 1747.7 | 1788.6 | 1852.0 | 1943.0 | 2080.7  | 2095.1  | 2280.6 | 2398.1 |
| 20°   | 1707.4 | 1712.6 | 1714.3 | 1729.3 | 1758.7 | 1813.4 | 1903.3 | 2041.5  | 2058.8  | 2259.3 | 2401.0 |
| 22.5° | 1746.6 | 1747.1 | 1740.8 | 1735.6 | 1747.1 | 1792.7 | 1875.0 | 2012.1  | 2032.3  | 2250.0 | 2403.3 |
| 25°   | 1807.1 | 1817.4 | 1808.2 | 1784.0 | 1762.7 | 1784.6 | 1864.1 | 1996.0  | 2015.0  | 2236.8 | 2400.4 |
| 27.5° | 1905.0 | 1906.7 | 1899.2 | 1866.4 | 1811.1 | 1795.0 | 1859.5 | 1983.9  | 2000.0  | 2227.0 | 2386.0 |
| 30°   | 2036.3 | 2031.1 | 2024.2 | 1987.9 | 1901.0 | 1834.7 | 1869.3 | 1973.0  | 1989.7  | 2212.6 | 2368.7 |
| 32.5° | 2169.4 | 2185.5 | 2179.2 | 2136.6 | 2023.6 | 1911.9 | 1901.0 | 1971.8  | 1985.6  | 2201.6 | 2349.7 |
| 35°   | 2310.5 | 2318.0 | 2348.0 | 2326.1 | 2210.3 | 2036.9 | 1960.3 | 1989.7  | 2000.6  | 2202.2 | 2336.4 |
| 37.5° | 2421.1 | 2441.3 | 2511.6 | 2530.6 | 2421.7 | 2202.2 | 2056.5 | 2040.4  | 2045.0  | 2230.4 | 2341.6 |
| 40°   | 2554.8 | 2589.3 | 2679.8 | 2757.5 | 2686.1 | 2417.1 | 2220.1 | 2134.2  | 2140.0  | 2298.4 | 2375.6 |
| 42.5° | 2724.1 | 2748.3 | 2869.9 | 2975.3 | 2963.8 | 2701.1 | 2418.2 | 2288.1  | 2290.9  | 2433.8 | 2470.7 |
| 45°   | 2922.3 | 2956.8 | 3093.4 | 3251.8 | 3278.9 | 3022.5 | 2704.5 | 2520.8  | 2519.0  | 2644.1 | 2648.1 |
| 47.5° | 3175.7 | 3197.1 | 3332.4 | 3505.2 | 3614.7 | 3426.3 | 3051.9 | 2854.9  | 2836.4  | 2950.5 | 2917.7 |
| 50°   | 3409.0 | 3442.4 | 3545.0 | 3733.9 | 4006.4 | 3899.3 | 3508.7 | 3288.1  | 3244.9  | 3351.4 | 3296.1 |
| 52.5° | 3507.0 | 3542.1 | 3628.5 | 3863.0 | 4342.2 | 4511.0 | 4088.8 | 3804.8  | 3732.8  | 3814.6 | 3794.4 |
| 55°   | 3337.0 | 3382.5 | 3463.2 | 3748.3 | 4489.7 | 5216.7 | 4871.0 | 4402.1  | 4349.7  | 4314.6 | 4320.3 |
| 57.5° | 2880.2 | 2923.4 | 3032.3 | 3346.8 | 4313.4 | 5728.8 | 5988.0 | 5170.0  | 5057.7  | 4895.8 | 4923.5 |
| 60°   | 2192.4 | 2219.5 | 2276.0 | 2624.5 | 3791.0 | 5861.8 | 7256.4 | 6140.6  | 6069.2  | 5474.7 | 5494.3 |
| 62.5° | 1557.1 | 1587.6 | 1626.8 | 1800.7 | 2775.4 | 5486.8 | 8249.6 | 7496.1  | 7240.9  | 6074.4 | 6055.4 |
| 65°   | 1264.4 | 1243.7 | 1290.9 | 1372.1 | 1628.5 | 4252.4 | 8473.1 | 9377.4  | 9026.1  | 6864.2 | 6600.3 |
| 67.5° | 1039.8 | 1017.9 | 1064.5 | 1209.1 | 1238.5 | 2468.4 | 7667.7 | 10598.7 | 10528.4 | 7723.0 | 7153.9 |
| 69°   | 920.5  | 909.0  | 949.9  | 1114.6 | 1189.0 | 1752.9 | 6679.8 | 10768.6 | 10785.3 | 8229.4 | 7239.2 |
| 70°   | 829.5  | 834.1  | 873.9  | 1066.8 | 1166.5 | 1445.3 | 5709.2 | 10534.1 | 10675.9 | 8482.3 | 7147.0 |
| 72.5° | 610.6  | 620.4  | 675.7  | 883.7  | 1145.2 | 1226.4 | 3397.5 | 9201.2  | 9451.8  | 8497.3 | 6538.1 |
| 75°   | 426.8  | 422.2  | 471.2  | 665.3  | 1081.8 | 1215.5 | 1995.4 | 7115.9  | 7399.9  | 7344.6 | 5493.7 |
| 77.5° | 279.4  | 286.9  | 326.0  | 470.1  | 910.2  | 1206.2 | 1300.7 | 5048.5  | 5232.8  | 4911.9 | 3249.5 |
| 80°   | 197.0  | 196.4  | 218.3  | 320.9  | 675.1  | 1159.0 | 1065.1 | 3182.1  | 3135.4  | 1930.3 | 963.7  |
| 82.5° | 112.9  | 121.0  | 146.3  | 225.8  | 451.6  | 1020.2 | 979.9  | 1521.9  | 1389.4  | 550.1  | 325.5  |
| 85°   | 62.8   | 65.7   | 87.0   | 136.5  | 263.8  | 768.4  | 855.4  | 692.4   | 653.2   | 229.8  | 140.0  |
| 87.5° | 20.2   | 21.9   | 36.3   | 69.1   | 119.8  | 362.9  | 484.5  | 319.7   | 294.9   | 83.0   | 56.5   |
| 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°    | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 | 2402.1 |
| 2.5°  | 2405.6 | 2412.5 | 2394.0 | 2376.2 | 2360.1 | 2337.6 | 2317.4 | 2300.7 | 2289.2 | 2287.5 | 2281.7 |
| 5°    | 2413.6 | 2414.2 | 2379.1 | 2331.8 | 2285.7 | 2235.1 | 2182.6 | 2145.2 | 2110.1 | 2090.5 | 2080.7 |
| 7.5°  | 2419.4 | 2414.2 | 2350.8 | 2274.2 | 2185.5 | 2093.4 | 2001.2 | 1927.4 | 1870.4 | 1848.0 | 1856.6 |
| 10°   | 2417.1 | 2401.0 | 2308.2 | 2185.5 | 2056.5 | 1918.8 | 1786.3 | 1682.6 | 1587.6 | 1538.6 | 1539.8 |
| 12.5° | 2404.4 | 2377.9 | 2244.9 | 2085.9 | 1896.3 | 1712.0 | 1509.2 | 1369.3 | 1259.2 | 1194.1 | 1174.0 |
| 15°   | 2393.5 | 2347.4 | 2170.5 | 1950.5 | 1714.9 | 1451.6 | 1204.5 | 1031.7 | 939.5  | 888.3  | 887.7  |
| 17.5° | 2381.9 | 2318.0 | 2089.3 | 1807.1 | 1506.4 | 1167.6 | 908.4  | 776.5  | 733.3  | 738.5  | 729.8  |
| 20°   | 2369.9 | 2283.4 | 2004.6 | 1647.5 | 1252.3 | 871.0  | 680.3  | 626.7  | 638.8  | 662.5  | 665.9  |
| 22.5° | 2356.0 | 2246.6 | 1913.6 | 1471.8 | 985.0  | 655.5  | 551.9  | 543.8  | 574.9  | 611.8  | 616.9  |
| 25°   | 2334.7 | 2200.5 | 1799.0 | 1288.0 | 759.8  | 528.2  | 483.3  | 489.1  | 519.6  | 550.7  | 554.2  |
| 27.5° | 2304.8 | 2143.5 | 1683.2 | 1058.8 | 570.9  | 453.3  | 441.8  | 449.3  | 464.3  | 483.3  | 487.9  |
| 30°   | 2264.4 | 2078.9 | 1550.1 | 860.6  | 457.4  | 415.9  | 411.3  | 415.3  | 424.0  | 432.0  | 434.3  |
| 32.5° | 2224.1 | 2016.7 | 1415.9 | 659.0  | 407.8  | 391.1  | 386.5  | 386.5  | 386.5  | 387.7  | 388.3  |
| 35°   | 2186.7 | 1958.0 | 1271.9 | 513.3  | 381.9  | 371.5  | 365.2  | 358.3  | 357.1  | 353.1  | 353.1  |
| 37.5° | 2165.9 | 1904.4 | 1118.7 | 429.7  | 362.9  | 355.4  | 346.8  | 335.3  | 328.9  | 329.5  | 328.3  |
| 40°   | 2170.0 | 1869.3 | 979.3  | 382.5  | 347.4  | 339.3  | 326.0  | 312.8  | 308.8  | 308.8  | 307.6  |
| 42.5° | 2215.5 | 1857.7 | 845.6  | 357.7  | 332.4  | 323.2  | 306.5  | 294.4  | 292.1  | 291.5  | 292.6  |
| 45°   | 2320.3 | 1886.0 | 725.8  | 341.6  | 319.7  | 305.9  | 289.2  | 278.2  | 275.9  | 275.9  | 275.3  |
| 47.5° | 2524.8 | 1977.6 | 640.0  | 331.2  | 310.5  | 292.6  | 275.3  | 264.4  | 260.4  | 259.2  | 259.2  |
| 50°   | 2842.8 | 2176.3 | 576.0  | 322.0  | 299.0  | 280.5  | 262.7  | 250.0  | 243.7  | 243.1  | 242.5  |
| 52.5° | 3284.6 | 2486.2 | 551.3  | 315.1  | 286.3  | 267.9  | 248.3  | 236.2  | 228.1  | 226.4  | 225.2  |
| 55°   | 3801.3 | 2918.8 | 585.3  | 309.9  | 273.0  | 253.5  | 233.3  | 220.6  | 213.1  | 209.7  | 209.1  |
| 57.5° | 4399.8 | 3438.4 | 714.3  | 303.0  | 260.9  | 237.9  | 218.3  | 205.6  | 197.6  | 193.6  | 192.4  |
| 60°   | 4937.3 | 3972.4 | 939.5  | 299.0  | 250.6  | 221.2  | 201.0  | 189.5  | 182.0  | 178.0  | 177.4  |
| 62.5° | 5527.7 | 4481.6 | 1208.5 | 309.9  | 246.0  | 205.1  | 184.9  | 174.5  | 168.2  | 164.2  | 164.2  |
| 65°   | 6158.5 | 4991.4 | 1386.5 | 346.8  | 252.9  | 192.4  | 167.6  | 159.0  | 153.2  | 150.3  | 149.8  |
| 67.5° | 6583.6 | 5167.7 | 1142.3 | 384.8  | 270.2  | 178.6  | 150.9  | 144.0  | 140.6  | 137.7  | 137.7  |
| 69°   | 6537.5 | 4944.8 | 842.8  | 394.6  | 275.3  | 171.7  | 141.7  | 136.5  | 131.9  | 130.8  | 129.6  |
| 70°   | 6391.8 | 4690.7 | 706.2  | 388.3  | 271.3  | 165.3  | 135.9  | 129.6  | 125.6  | 124.4  | 123.8  |
| 72.5° | 5693.1 | 4068.0 | 525.9  | 337.6  | 231.0  | 143.4  | 120.4  | 114.6  | 111.2  | 109.4  | 109.4  |
| 75°   | 4729.9 | 3324.9 | 410.7  | 268.4  | 180.9  | 121.0  | 103.1  | 98.5   | 95.6   | 94.5   | 93.9   |
| 77.5° | 2651.0 | 1856.6 | 294.9  | 210.3  | 137.1  | 97.9   | 86.4   | 82.4   | 79.5   | 78.3   | 78.3   |
| 80°   | 738.5  | 530.5  | 173.4  | 138.8  | 93.3   | 74.3   | 68.5   | 65.7   | 61.6   | 58.8   | 60.5   |
| 82.5° | 278.2  | 229.8  | 99.1   | 83.5   | 59.3   | 49.5   | 47.8   | 45.5   | 43.8   | 39.7   | 39.7   |
| 85°   | 135.4  | 111.8  | 63.4   | 44.4   | 32.8   | 25.9   | 24.8   | 23.6   | 22.5   | 19.6   | 20.2   |
| 87.5° | 46.7   | 49.5   | 27.7   | 16.1   | 9.8    | 6.3    | 5.2    | 2.9    | 2.9    | 2.9    | 2.9    |
| 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)