

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: P526083

Luminaire Tested: **GLAN-SA1A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2787 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 33  
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



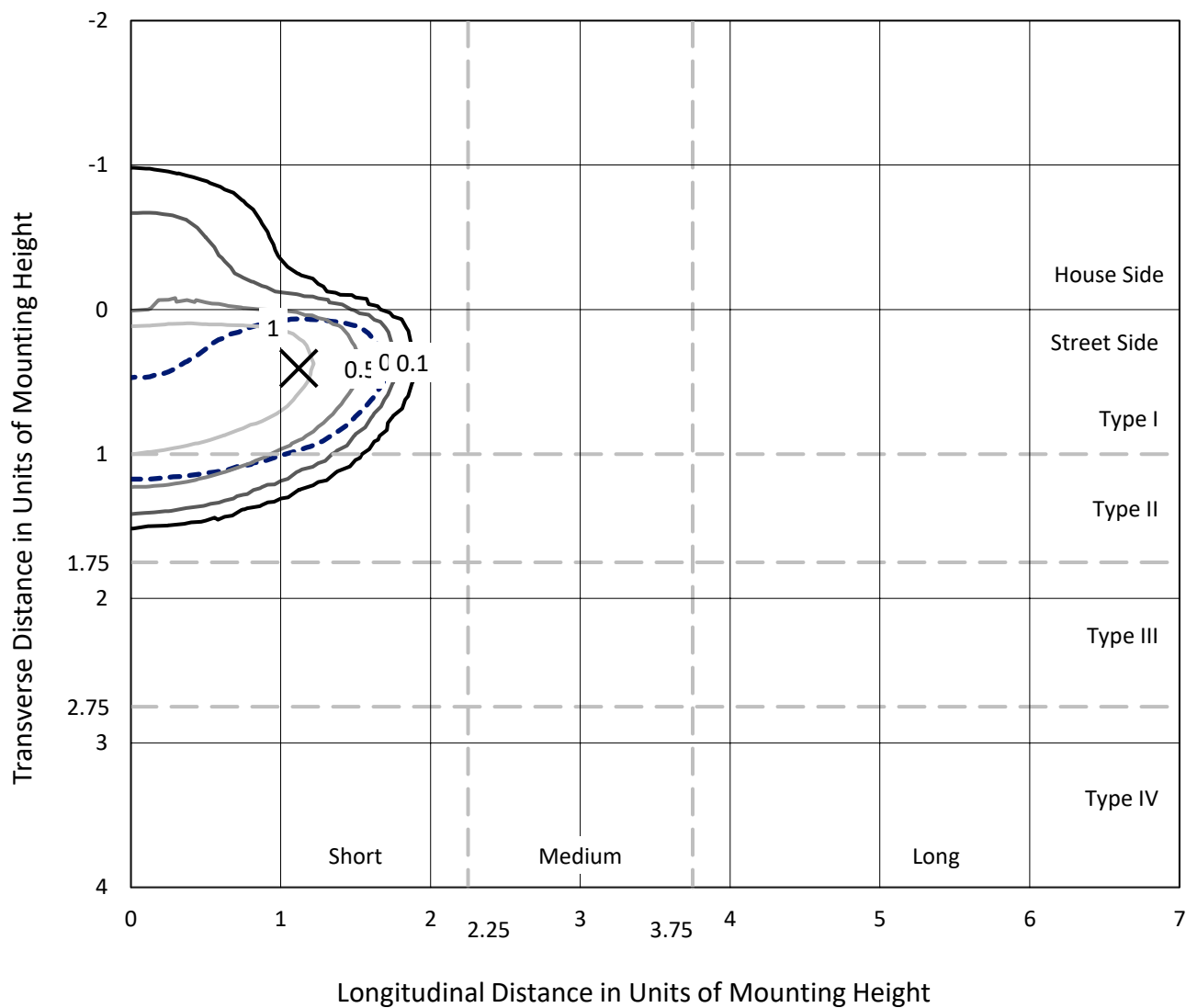
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

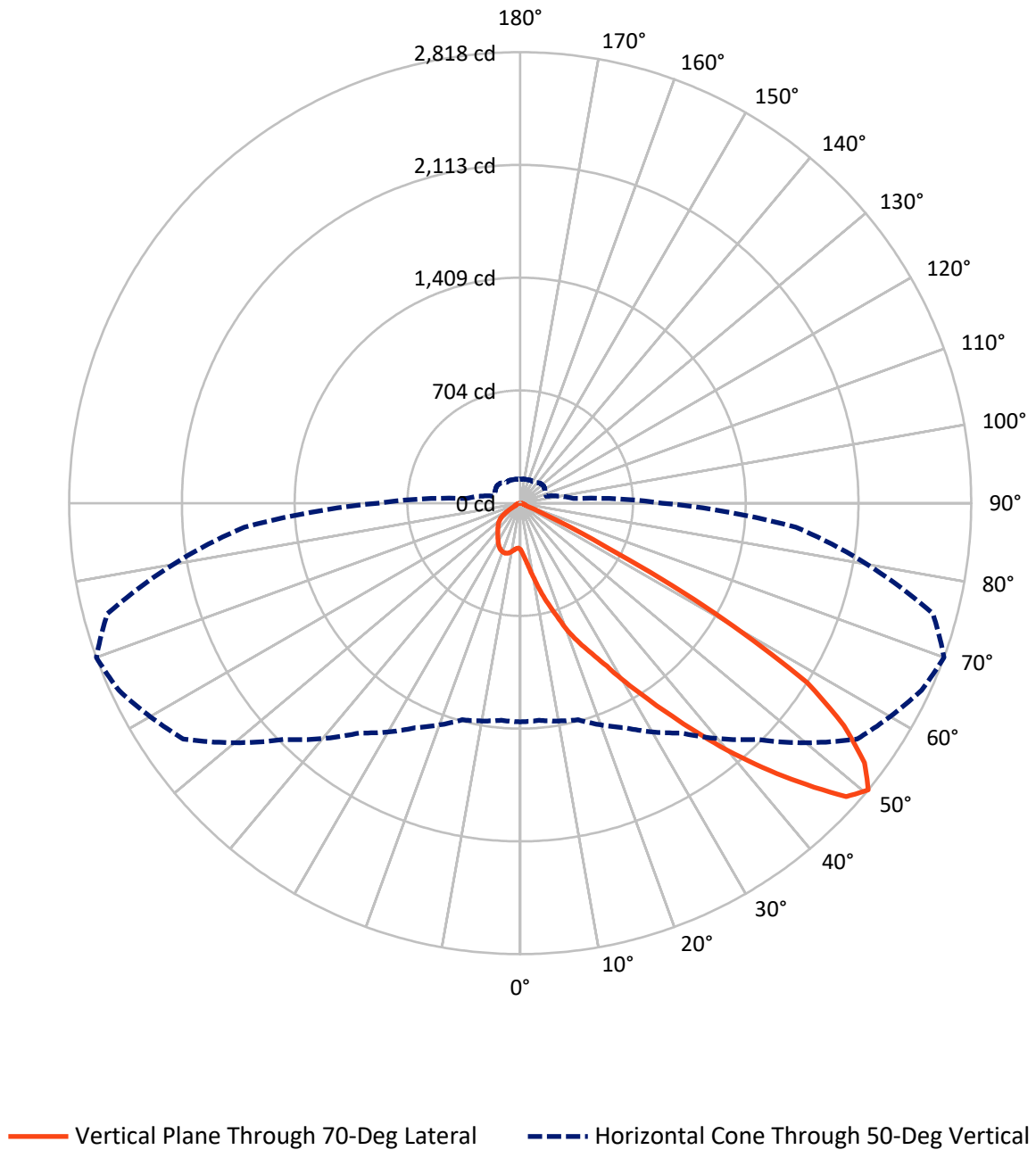


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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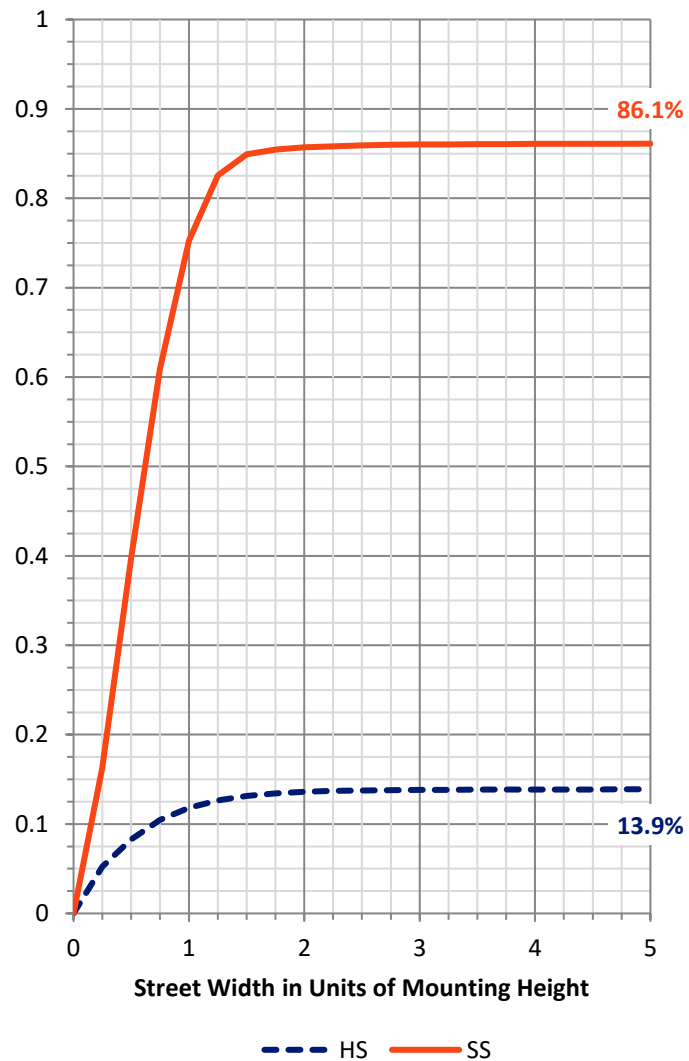
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 389.2    | 0.0    | 389.2  |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 2397.8   | 0.0    | 2397.8 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 2787.0   | 0.0    | 2787.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.5   | 1.3       |
| 10°-20°   | 162.4  | 5.8       |
| 20°-30°   | 340.6  | 12.2      |
| 30°-40°   | 587.2  | 21.1      |
| 40°-50°   | 858.1  | 30.8      |
| 50°-60°   | 668.3  | 24.0      |
| 60°-70°   | 113.2  | 4.1       |
| 70°-80°   | 15.5   | 0.6       |
| 80°-90°   | 4.0    | 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°    | 2787.0 | 100.0     |
| 0°-180°   | 2787.0 | 100.0     |

**Coefficient of Utilization**



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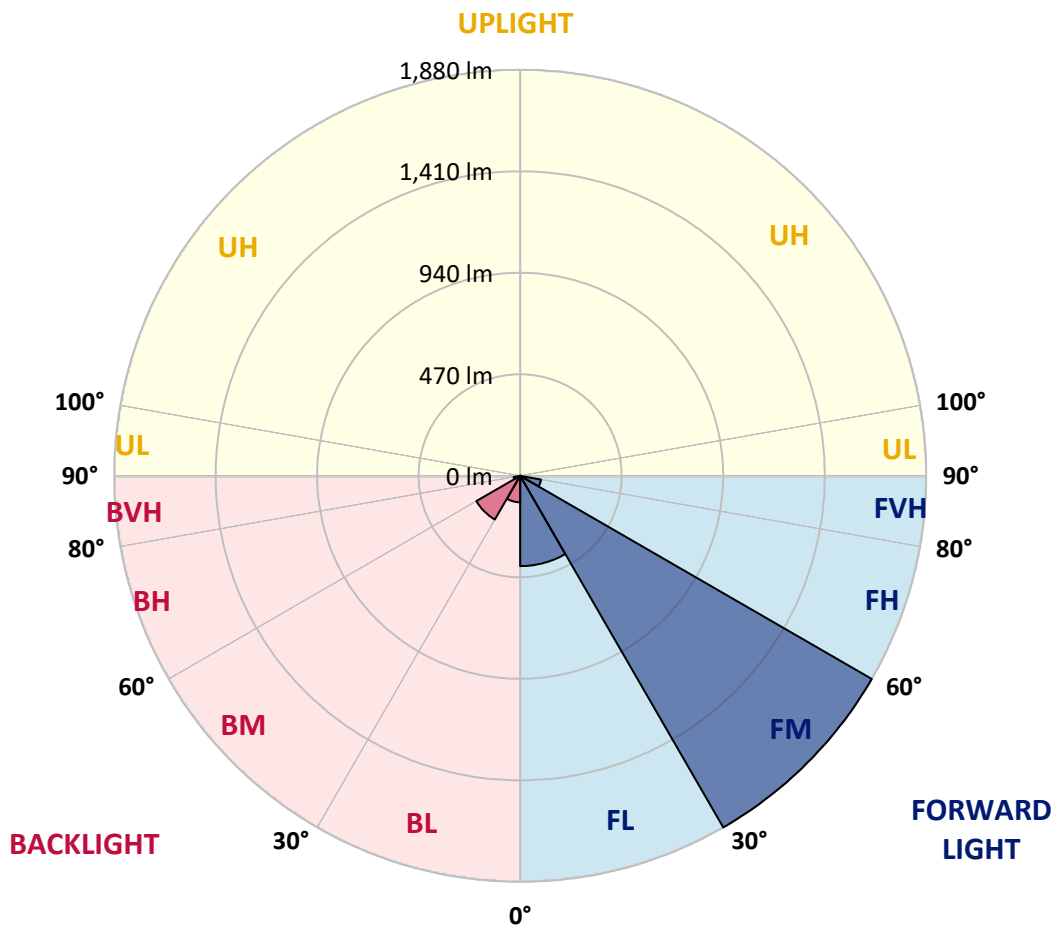
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 418.1  | 15.0      |                         |      |        |
| FM   | (30°-60°)   | 1879.8 | 67.4      |                         |      |        |
| FH   | (60°-80°)   | 98.0   | 3.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 1.9    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 122.5  | 4.4       | B1/500                  |      |        |
| BM   | (30°-60°)   | 233.8  | 8.4       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 30.7   | 1.1       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 2.2    | 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 I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  | 288.7  |
| 2.5°  | 378.0  | 375.3  | 369.3  | 358.3  | 353.7  | 342.7  | 336.3  | 324.0  | 316.2  | 307.5  | 297.8  |
| 5°    | 532.5  | 518.2  | 509.5  | 497.2  | 461.0  | 438.5  | 401.4  | 369.8  | 355.1  | 339.1  | 317.1  |
| 7.5°  | 691.9  | 682.7  | 670.8  | 644.3  | 619.5  | 572.8  | 509.1  | 439.4  | 409.6  | 382.2  | 338.6  |
| 10°   | 823.9  | 798.2  | 796.8  | 777.1  | 750.1  | 694.2  | 617.7  | 531.1  | 477.9  | 437.6  | 369.3  |
| 12.5° | 916.0  | 892.6  | 903.2  | 900.9  | 875.7  | 824.3  | 735.9  | 621.3  | 565.9  | 503.1  | 400.9  |
| 15°   | 999.8  | 990.2  | 987.0  | 984.3  | 974.2  | 936.1  | 856.9  | 731.3  | 651.1  | 575.5  | 436.7  |
| 17.5° | 1081.9 | 1057.1 | 1069.0 | 1071.3 | 1070.4 | 1036.0 | 961.8  | 835.8  | 741.4  | 652.0  | 474.3  |
| 20°   | 1154.7 | 1157.0 | 1141.0 | 1137.8 | 1135.0 | 1133.6 | 1061.2 | 939.4  | 852.3  | 732.2  | 523.3  |
| 22.5° | 1248.2 | 1232.2 | 1246.4 | 1237.2 | 1219.3 | 1208.3 | 1152.9 | 1031.0 | 948.5  | 828.9  | 573.2  |
| 25°   | 1358.6 | 1371.5 | 1338.0 | 1334.3 | 1314.6 | 1276.6 | 1226.7 | 1133.6 | 1041.1 | 918.7  | 627.3  |
| 27.5° | 1494.7 | 1472.3 | 1463.6 | 1443.4 | 1407.7 | 1391.6 | 1333.0 | 1239.5 | 1152.9 | 1013.1 | 679.5  |
| 30°   | 1611.6 | 1605.6 | 1562.1 | 1538.2 | 1507.1 | 1506.6 | 1424.6 | 1382.9 | 1298.6 | 1161.1 | 751.5  |
| 32.5° | 1706.9 | 1680.7 | 1664.7 | 1648.2 | 1623.0 | 1629.9 | 1560.7 | 1538.7 | 1453.9 | 1298.6 | 836.3  |
| 35°   | 1770.6 | 1751.8 | 1742.2 | 1716.9 | 1709.6 | 1740.3 | 1711.5 | 1702.3 | 1632.6 | 1492.0 | 935.7  |
| 37.5° | 1790.7 | 1796.7 | 1794.8 | 1763.2 | 1778.8 | 1861.7 | 1898.9 | 1875.0 | 1838.4 | 1695.9 | 1043.4 |
| 40°   | 1808.6 | 1812.7 | 1803.6 | 1840.7 | 1885.1 | 1979.5 | 2113.8 | 2074.4 | 2060.6 | 1902.5 | 1193.2 |
| 42.5° | 1818.7 | 1815.5 | 1815.5 | 1879.6 | 1947.0 | 2136.7 | 2321.3 | 2295.2 | 2284.7 | 2122.5 | 1366.4 |
| 45°   | 1775.1 | 1744.0 | 1777.4 | 1864.5 | 2000.1 | 2214.1 | 2487.2 | 2523.4 | 2508.3 | 2384.1 | 1568.9 |
| 47.5° | 1612.5 | 1631.7 | 1650.5 | 1766.9 | 1935.5 | 2190.3 | 2588.9 | 2712.2 | 2740.2 | 2604.1 | 1701.8 |
| 50°   | 1366.4 | 1362.3 | 1401.2 | 1547.9 | 1752.7 | 2087.6 | 2569.2 | 2766.7 | 2817.6 | 2670.0 | 1729.8 |
| 52.5° | 993.9  | 1024.1 | 1066.3 | 1212.0 | 1454.8 | 1821.9 | 2314.9 | 2626.1 | 2693.9 | 2588.9 | 1711.5 |
| 55°   | 578.7  | 545.3  | 640.1  | 763.4  | 992.5  | 1374.2 | 1957.1 | 2327.8 | 2453.3 | 2441.4 | 1618.9 |
| 57.5° | 231.9  | 224.5  | 257.1  | 346.4  | 517.8  | 851.8  | 1423.2 | 1912.6 | 2113.8 | 2236.1 | 1422.8 |
| 60°   | 101.7  | 99.4   | 116.8  | 141.1  | 211.7  | 392.7  | 778.5  | 1189.5 | 1399.4 | 1562.5 | 979.2  |
| 62.5° | 73.3   | 72.4   | 81.1   | 89.8   | 111.8  | 170.9  | 327.2  | 479.3  | 597.5  | 721.7  | 438.5  |
| 65°   | 59.1   | 61.4   | 67.4   | 71.9   | 82.5   | 94.9   | 115.5  | 133.3  | 163.6  | 169.5  | 96.7   |
| 67.5° | 48.1   | 49.9   | 55.4   | 60.5   | 62.3   | 51.3   | 53.2   | 46.7   | 46.7   | 41.7   | 33.5   |
| 70°   | 35.3   | 35.7   | 42.2   | 48.1   | 38.5   | 20.6   | 36.2   | 36.2   | 32.5   | 31.2   | 28.4   |
| 72.5° | 26.1   | 26.6   | 31.6   | 29.8   | 15.1   | 12.8   | 26.6   | 29.3   | 26.6   | 25.2   | 22.9   |
| 75°   | 19.2   | 19.7   | 16.5   | 6.9    | 6.4    | 8.2    | 15.6   | 20.2   | 19.2   | 18.8   | 17.4   |
| 77.5° | 3.7    | 2.7    | 2.3    | 3.2    | 4.6    | 6.9    | 10.1   | 12.4   | 12.8   | 13.7   | 12.8   |
| 80°   | 0.5    | 0.5    | 1.4    | 2.7    | 5.0    | 7.3    | 10.5   | 11.9   | 12.4   | 12.8   | 11.9   |
| 82.5° | 0.0    | 0.5    | 1.4    | 2.7    | 5.0    | 6.9    | 9.2    | 10.5   | 11.5   | 11.9   | 11.5   |
| 85°   | 0.0    | 0.5    | 0.9    | 2.3    | 4.1    | 5.0    | 4.6    | 3.2    | 2.7    | 3.2    | 2.3    |
| 87.5° | 0.0    | 0.0    | 0.5    | 0.5    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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°    | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 | 288.7 |
| 2.5°  | 292.3 | 290.5 | 284.1 | 277.2 | 271.3 | 274.0 | 271.3 | 269.0 | 269.9 | 269.0 | 268.1 |
| 5°    | 308.4 | 300.1 | 286.4 | 280.4 | 275.4 | 274.9 | 273.6 | 273.1 | 273.6 | 273.6 | 269.4 |
| 7.5°  | 323.5 | 310.2 | 295.6 | 289.1 | 283.2 | 283.6 | 280.4 | 280.4 | 280.0 | 277.7 | 276.8 |
| 10°   | 346.4 | 328.5 | 309.8 | 298.3 | 291.0 | 289.6 | 286.4 | 283.2 | 283.2 | 283.2 | 278.6 |
| 12.5° | 371.6 | 349.2 | 323.5 | 310.2 | 301.5 | 294.6 | 289.6 | 288.7 | 283.6 | 282.7 | 280.4 |
| 15°   | 393.6 | 365.2 | 332.7 | 314.3 | 303.3 | 294.2 | 286.4 | 281.3 | 279.1 | 277.7 | 275.8 |
| 17.5° | 415.1 | 378.9 | 337.7 | 314.3 | 302.4 | 291.9 | 283.6 | 279.1 | 273.6 | 274.5 | 270.8 |
| 20°   | 444.0 | 393.6 | 339.1 | 308.4 | 293.7 | 283.6 | 272.6 | 270.3 | 267.1 | 264.4 | 265.3 |
| 22.5° | 472.0 | 404.1 | 335.0 | 301.1 | 280.0 | 268.1 | 262.6 | 259.8 | 258.4 | 256.1 | 252.9 |
| 25°   | 497.2 | 415.6 | 328.5 | 287.8 | 265.3 | 256.6 | 251.6 | 251.1 | 247.9 | 247.9 | 241.9 |
| 27.5° | 522.8 | 419.7 | 317.5 | 272.2 | 252.5 | 247.4 | 245.1 | 244.2 | 242.9 | 239.6 | 235.5 |
| 30°   | 552.2 | 421.1 | 301.5 | 256.1 | 241.0 | 235.5 | 238.7 | 241.0 | 235.1 | 229.1 | 230.9 |
| 32.5° | 576.4 | 417.9 | 282.3 | 241.0 | 232.8 | 230.0 | 236.4 | 238.7 | 231.9 | 225.4 | 222.2 |
| 35°   | 605.8 | 410.1 | 263.5 | 229.1 | 224.5 | 230.0 | 235.5 | 235.5 | 221.8 | 214.0 | 212.2 |
| 37.5° | 650.2 | 401.4 | 246.1 | 219.0 | 215.8 | 227.3 | 234.6 | 229.6 | 208.0 | 198.4 | 196.1 |
| 40°   | 697.9 | 395.9 | 229.1 | 208.9 | 211.2 | 222.7 | 226.8 | 211.2 | 189.2 | 183.3 | 181.5 |
| 42.5° | 767.1 | 384.9 | 214.0 | 200.2 | 207.1 | 216.3 | 216.3 | 188.3 | 180.1 | 176.9 | 176.4 |
| 45°   | 853.2 | 377.1 | 200.7 | 192.9 | 201.2 | 203.4 | 196.1 | 176.4 | 170.5 | 169.5 | 170.0 |
| 47.5° | 895.4 | 362.0 | 187.0 | 184.2 | 190.2 | 190.6 | 171.4 | 166.8 | 161.8 | 160.4 | 159.5 |
| 50°   | 888.9 | 335.0 | 169.1 | 172.7 | 181.0 | 176.4 | 156.3 | 157.2 | 152.6 | 152.1 | 149.8 |
| 52.5° | 844.0 | 292.3 | 151.2 | 159.9 | 169.1 | 155.8 | 143.9 | 143.0 | 143.0 | 137.0 | 134.7 |
| 55°   | 748.3 | 235.5 | 129.7 | 140.7 | 151.7 | 131.1 | 127.8 | 126.9 | 124.6 | 119.1 | 117.8 |
| 57.5° | 592.5 | 172.7 | 97.6  | 109.5 | 128.8 | 111.3 | 110.9 | 106.8 | 100.8 | 96.7  | 96.7  |
| 60°   | 352.4 | 99.4  | 61.4  | 66.9  | 85.2  | 90.3  | 100.4 | 98.5  | 88.4  | 82.0  | 80.2  |
| 62.5° | 160.8 | 51.3  | 38.9  | 39.9  | 45.8  | 58.7  | 78.8  | 91.2  | 77.0  | 66.0  | 65.1  |
| 65°   | 54.1  | 38.0  | 32.1  | 30.7  | 31.6  | 35.3  | 47.2  | 64.6  | 61.4  | 50.9  | 49.0  |
| 67.5° | 33.0  | 33.9  | 30.2  | 28.0  | 28.0  | 27.5  | 27.0  | 29.3  | 36.2  | 35.3  | 35.7  |
| 70°   | 28.4  | 31.2  | 28.0  | 25.2  | 24.3  | 22.9  | 19.2  | 16.0  | 13.7  | 16.0  | 17.0  |
| 72.5° | 22.9  | 24.7  | 23.8  | 21.5  | 19.2  | 17.4  | 13.7  | 10.5  | 7.8   | 6.9   | 6.9   |
| 75°   | 17.0  | 18.3  | 19.2  | 16.5  | 14.7  | 12.4  | 10.1  | 6.9   | 4.1   | 2.7   | 2.7   |
| 77.5° | 12.4  | 13.7  | 14.2  | 12.8  | 11.0  | 8.7   | 6.4   | 4.6   | 2.3   | 0.9   | 0.9   |
| 80°   | 10.5  | 12.4  | 13.7  | 12.8  | 11.5  | 8.2   | 6.0   | 3.2   | 1.8   | 0.5   | 0.5   |
| 82.5° | 10.1  | 12.4  | 13.7  | 12.4  | 11.0  | 7.8   | 6.0   | 3.7   | 1.4   | 0.5   | 0.5   |
| 85°   | 2.3   | 3.2   | 4.1   | 5.0   | 6.0   | 6.0   | 4.6   | 2.7   | 1.4   | 0.5   | 0.5   |
| 87.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.5   | 0.5   | 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)