

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: P450246

Luminaire Tested: **GLAN-SA1A-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3049 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

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

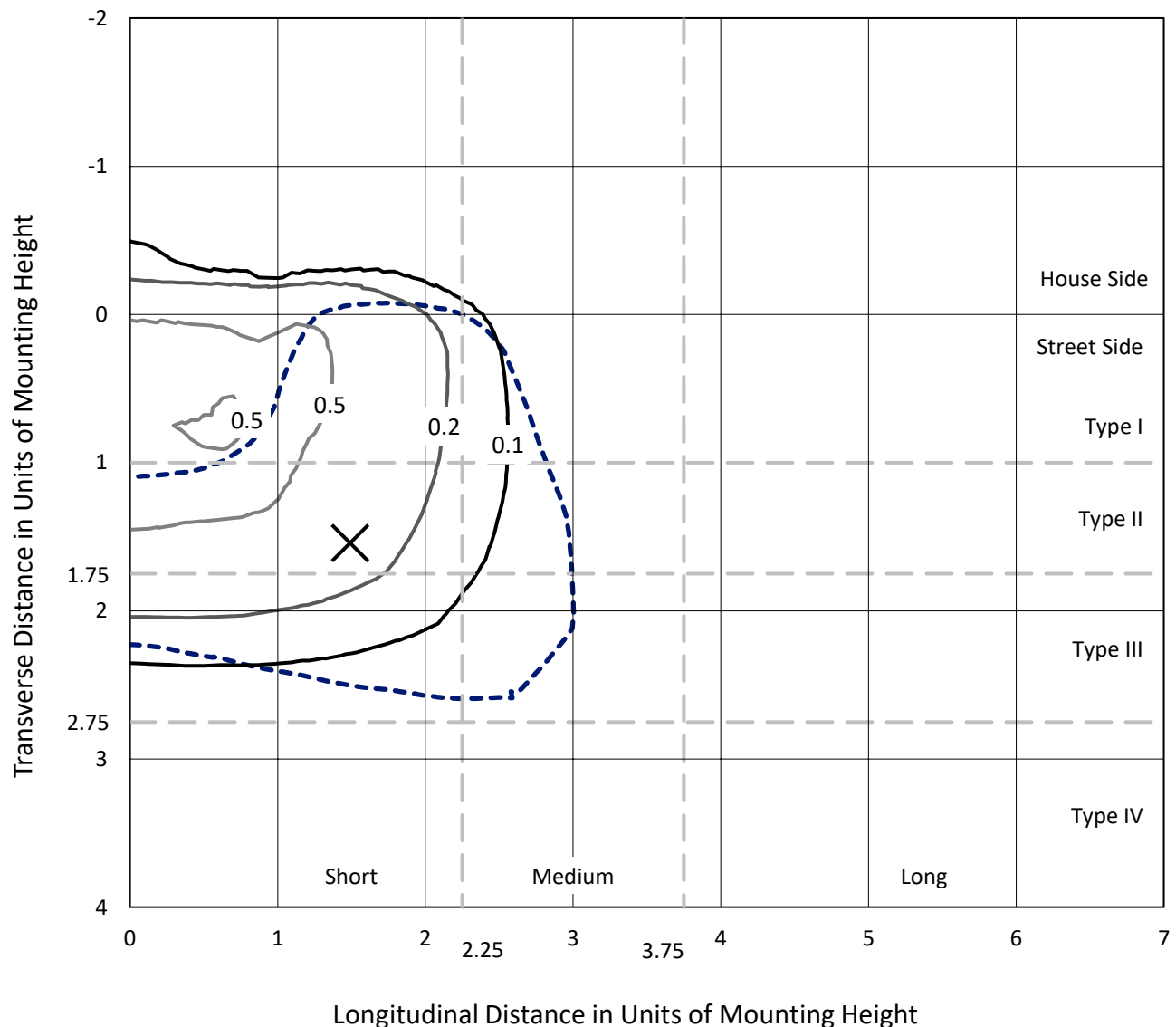


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## Iso-Footcandle Lines of Horizontal Illumination

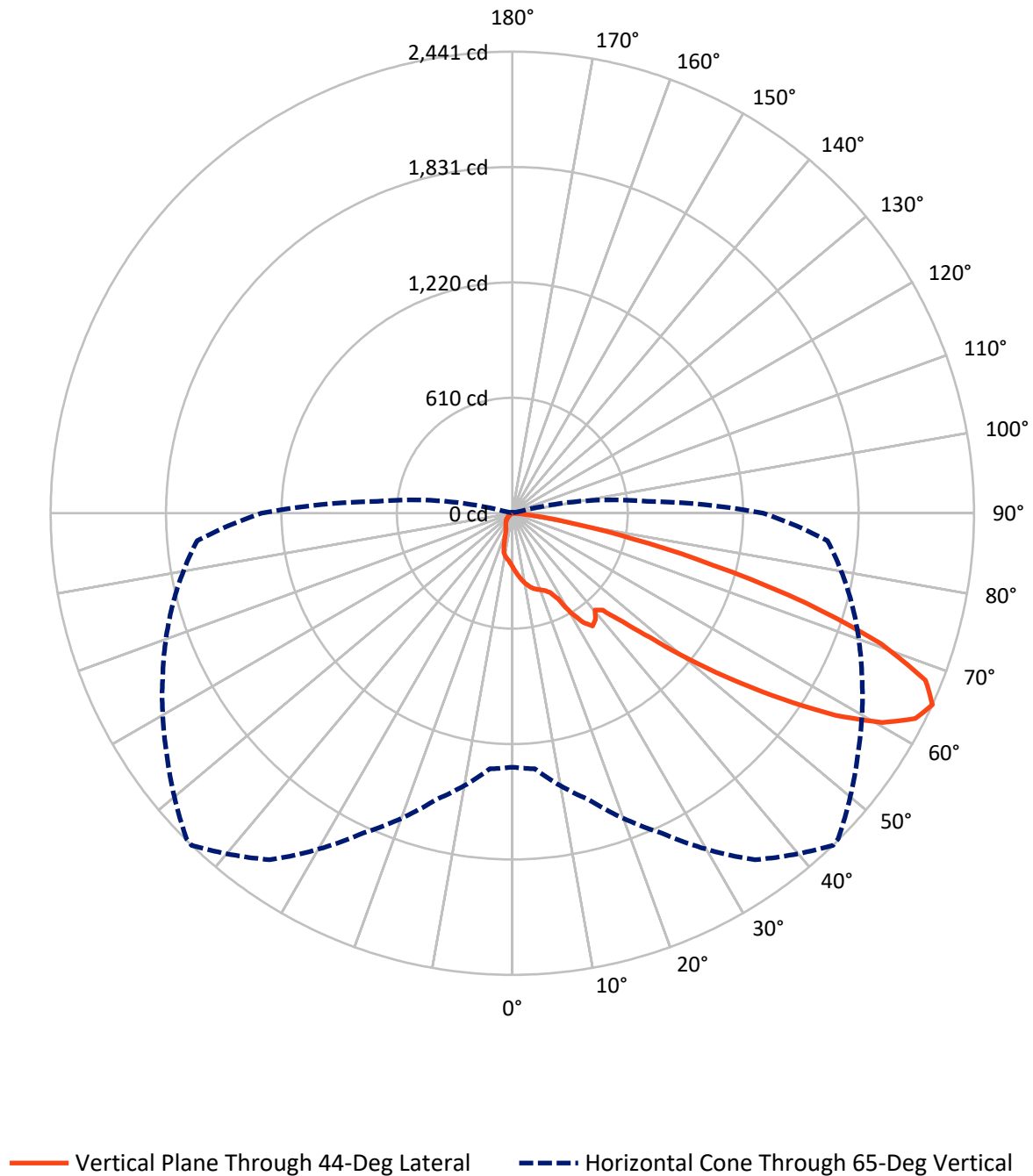
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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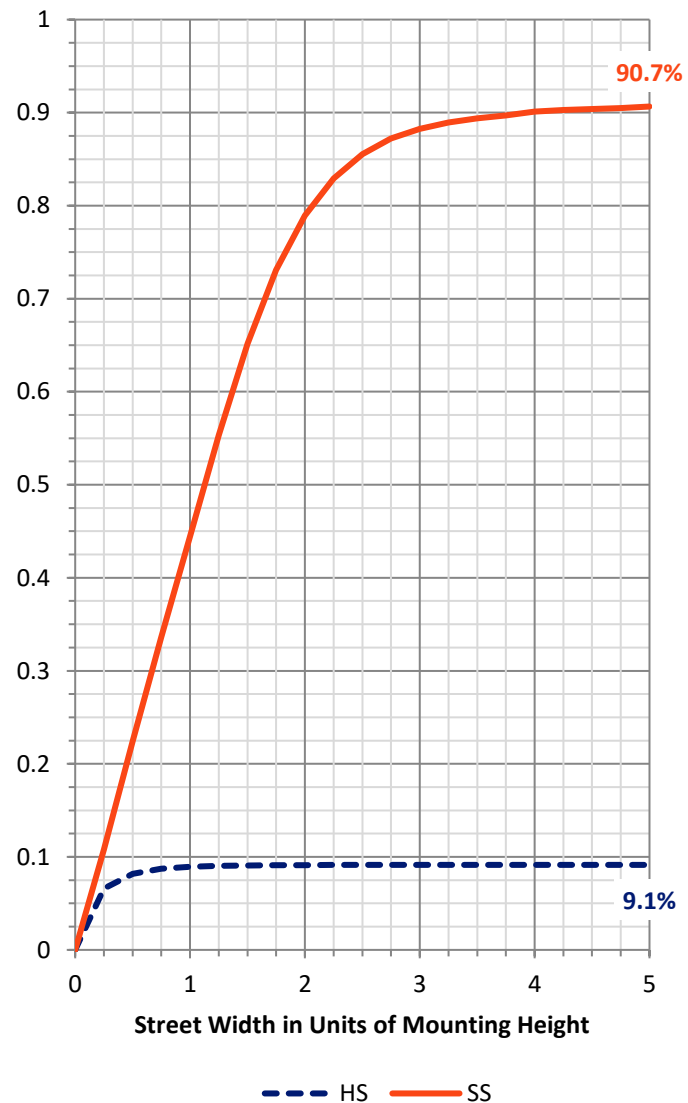
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 280.9    | 0.0    | 280.9  |
|                    | % Fixture | 9.2      | 0.0    | 9.2    |
| <b>Street Side</b> | Lumens    | 2768.1   | 0.0    | 2768.1 |
|                    | % Fixture | 90.8     | 0.0    | 90.8   |
| <b>Total</b>       | Lumens    | 3049.0   | 0.0    | 3049.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.2   | 0.9       |
| 10°-20°   | 84.9   | 2.8       |
| 20°-30°   | 144.0  | 4.7       |
| 30°-40°   | 239.5  | 7.9       |
| 40°-50°   | 418.1  | 13.7      |
| 50°-60°   | 816.9  | 26.8      |
| 60°-70°   | 947.8  | 31.1      |
| 70°-80°   | 345.1  | 11.3      |
| 80°-90°   | 24.3   | 0.8       |
| 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°    | 3049.0 | 100.0     |
| 0°-180°   | 3049.0 | 100.0     |

**Coefficient of Utilization**



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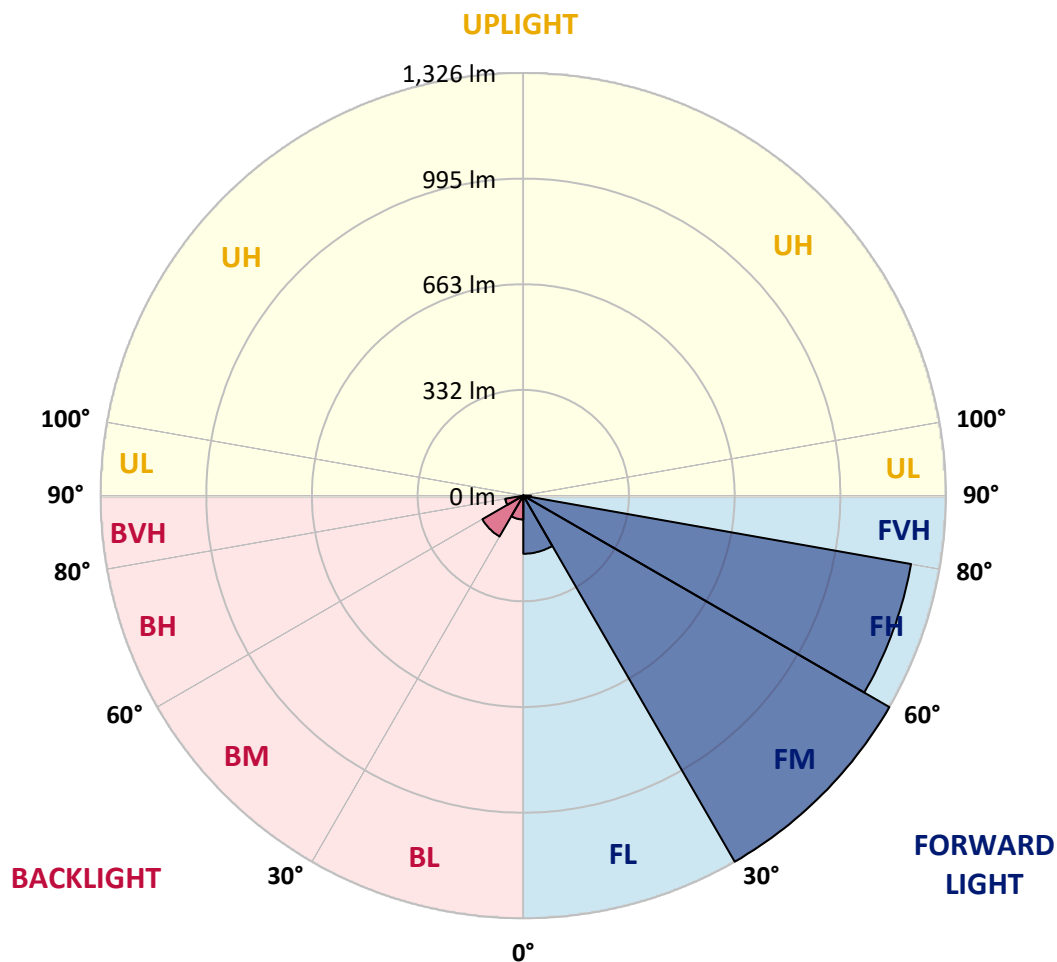
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 182.4  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 1326.3 | 43.5      |                         |      |         |
| FH   | (60°-80°)   | 1235.4 | 40.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.0   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 74.8   | 2.5       | B0/110                  |      |         |
| BM   | (30°-60°)   | 148.2  | 4.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 57.5   | 1.9       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  | 283.8  |
| 2.5°  | 319.4  | 318.0  | 317.3  | 313.6  | 310.8  | 307.3  | 307.3  | 302.9  | 297.7  | 292.2  | 287.0  |
| 5°    | 355.1  | 352.7  | 349.7  | 346.4  | 339.9  | 330.6  | 330.6  | 321.3  | 310.6  | 301.0  | 290.5  |
| 7.5°  | 389.3  | 387.2  | 382.1  | 375.8  | 365.1  | 355.3  | 354.6  | 341.1  | 328.3  | 313.8  | 298.9  |
| 10°   | 419.4  | 417.7  | 413.3  | 401.2  | 390.0  | 377.2  | 377.0  | 361.8  | 346.9  | 329.2  | 310.8  |
| 12.5° | 440.3  | 440.6  | 434.7  | 423.1  | 408.6  | 396.5  | 395.6  | 380.7  | 365.1  | 346.0  | 323.4  |
| 15°   | 455.2  | 455.2  | 449.2  | 436.1  | 423.1  | 412.4  | 411.4  | 398.4  | 382.3  | 361.6  | 337.1  |
| 17.5° | 459.4  | 460.8  | 454.3  | 442.7  | 432.2  | 422.9  | 422.6  | 411.7  | 398.9  | 378.8  | 351.1  |
| 20°   | 457.8  | 459.2  | 454.1  | 445.0  | 437.8  | 432.4  | 431.7  | 427.3  | 415.4  | 396.5  | 366.0  |
| 22.5° | 454.3  | 455.7  | 452.0  | 446.6  | 443.1  | 444.8  | 443.6  | 447.3  | 441.0  | 418.2  | 383.7  |
| 25°   | 455.0  | 456.4  | 453.6  | 450.6  | 453.6  | 463.6  | 466.7  | 482.7  | 477.1  | 445.7  | 402.8  |
| 27.5° | 476.9  | 479.7  | 475.7  | 477.1  | 487.9  | 511.2  | 517.0  | 544.7  | 520.0  | 480.6  | 432.6  |
| 30°   | 525.6  | 523.7  | 516.3  | 523.0  | 560.3  | 609.7  | 608.1  | 603.7  | 565.0  | 520.9  | 468.1  |
| 32.5° | 569.9  | 568.2  | 567.8  | 596.9  | 664.5  | 688.5  | 687.3  | 644.4  | 605.3  | 567.1  | 503.0  |
| 35°   | 587.8  | 581.5  | 580.1  | 650.7  | 763.7  | 732.0  | 724.8  | 661.2  | 654.2  | 617.4  | 538.7  |
| 37.5° | 641.9  | 637.4  | 615.8  | 659.6  | 724.1  | 713.6  | 708.0  | 690.1  | 706.4  | 661.9  | 579.0  |
| 40°   | 753.2  | 740.9  | 721.3  | 678.4  | 668.0  | 672.4  | 678.0  | 727.1  | 768.1  | 722.7  | 632.8  |
| 42.5° | 891.6  | 888.8  | 852.5  | 772.6  | 694.1  | 700.1  | 707.3  | 804.5  | 856.9  | 814.3  | 720.6  |
| 45°   | 1057.7 | 1061.7 | 1009.3 | 914.9  | 811.9  | 817.1  | 827.5  | 918.6  | 977.1  | 956.6  | 858.8  |
| 47.5° | 1208.7 | 1205.7 | 1188.0 | 1089.9 | 994.8  | 983.4  | 1000.4 | 1065.2 | 1143.5 | 1146.7 | 1030.2 |
| 50°   | 1360.6 | 1376.7 | 1350.4 | 1311.9 | 1241.3 | 1217.3 | 1211.0 | 1242.7 | 1362.0 | 1346.4 | 1236.2 |
| 52.5° | 1578.9 | 1587.3 | 1537.9 | 1528.1 | 1544.2 | 1466.4 | 1460.1 | 1467.8 | 1574.5 | 1520.9 | 1390.4 |
| 55°   | 1716.1 | 1711.2 | 1692.8 | 1769.3 | 1832.9 | 1735.7 | 1727.8 | 1696.8 | 1750.9 | 1644.1 | 1538.8 |
| 57.5° | 1759.5 | 1766.5 | 1809.3 | 1947.5 | 2098.0 | 2015.5 | 2001.1 | 1913.0 | 1878.1 | 1759.0 | 1675.4 |
| 60°   | 1740.1 | 1752.9 | 1845.4 | 2050.9 | 2259.7 | 2247.3 | 2235.0 | 2087.0 | 1969.4 | 1855.0 | 1771.1 |
| 62.5° | 1602.4 | 1620.4 | 1768.3 | 2032.5 | 2314.4 | 2391.6 | 2376.2 | 2195.6 | 2030.2 | 1901.6 | 1787.9 |
| 65°   | 1342.9 | 1356.2 | 1568.7 | 1865.5 | 2236.6 | 2440.9 | 2435.4 | 2229.6 | 2039.7 | 1859.0 | 1673.0 |
| 67.5° | 957.3  | 1002.5 | 1199.4 | 1572.2 | 2006.4 | 2356.6 | 2366.2 | 2188.9 | 1950.1 | 1674.7 | 1385.5 |
| 70°   | 601.8  | 632.5  | 773.7  | 1125.5 | 1608.5 | 2067.5 | 2098.9 | 2002.2 | 1692.4 | 1305.4 | 927.5  |
| 72.5° | 287.0  | 309.9  | 410.5  | 712.5  | 1135.3 | 1626.7 | 1651.6 | 1643.7 | 1308.7 | 822.4  | 478.5  |
| 75°   | 127.9  | 136.5  | 195.9  | 363.7  | 733.0  | 1093.4 | 1157.9 | 1168.6 | 817.8  | 402.4  | 186.2  |
| 77.5° | 65.2   | 65.5   | 91.8   | 176.1  | 366.0  | 652.3  | 665.2  | 702.7  | 443.4  | 177.3  | 64.8   |
| 80°   | 34.7   | 37.0   | 48.7   | 83.2   | 189.9  | 321.3  | 319.7  | 351.3  | 196.6  | 86.9   | 21.7   |
| 82.5° | 15.6   | 17.2   | 27.5   | 43.6   | 92.7   | 121.8  | 131.4  | 143.7  | 84.3   | 55.4   | 9.6    |
| 85°   | 4.7    | 5.6    | 13.5   | 21.9   | 33.5   | 35.2   | 39.4   | 50.8   | 47.8   | 39.4   | 4.9    |
| 87.5° | 0.7    | 0.7    | 5.6    | 6.1    | 4.9    | 6.3    | 6.5    | 7.2    | 15.4   | 14.4   | 2.6    |
| 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°    | 283.8  | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 | 283.8 |
| 2.5°  | 284.2  | 282.6 | 276.8 | 271.9 | 267.7 | 265.1 | 262.1 | 260.2 | 259.3 | 258.6 | 258.8 |
| 5°    | 285.4  | 281.4 | 271.4 | 263.5 | 257.4 | 250.9 | 246.5 | 243.9 | 242.8 | 240.9 | 240.9 |
| 7.5°  | 291.9  | 285.6 | 271.7 | 259.5 | 249.1 | 240.2 | 231.8 | 228.8 | 226.7 | 226.2 | 225.8 |
| 10°   | 301.2  | 293.3 | 274.2 | 257.4 | 242.5 | 230.4 | 218.5 | 208.1 | 199.9 | 195.0 | 194.3 |
| 12.5° | 312.9  | 301.5 | 278.2 | 256.0 | 236.9 | 215.5 | 184.1 | 162.9 | 148.6 | 144.2 | 144.9 |
| 15°   | 323.6  | 311.3 | 282.1 | 254.9 | 226.7 | 178.7 | 143.1 | 118.8 | 111.6 | 110.9 | 111.1 |
| 17.5° | 336.4  | 321.7 | 286.8 | 253.3 | 198.5 | 136.5 | 106.2 | 99.7  | 101.1 | 103.4 | 103.2 |
| 20°   | 349.7  | 332.9 | 292.4 | 243.5 | 158.4 | 102.7 | 93.9  | 94.6  | 96.7  | 98.8  | 99.2  |
| 22.5° | 363.9  | 345.7 | 298.9 | 219.9 | 120.9 | 89.5  | 89.0  | 89.9  | 92.0  | 94.4  | 94.8  |
| 25°   | 383.5  | 361.8 | 303.8 | 189.2 | 91.6  | 82.7  | 83.6  | 85.3  | 87.1  | 89.7  | 90.2  |
| 27.5° | 408.6  | 383.5 | 306.4 | 149.1 | 79.2  | 76.7  | 76.9  | 79.2  | 81.5  | 83.9  | 83.9  |
| 30°   | 441.3  | 409.3 | 301.2 | 112.8 | 73.2  | 70.8  | 69.9  | 71.3  | 74.3  | 76.7  | 76.9  |
| 32.5° | 470.4  | 433.8 | 287.7 | 86.2  | 68.7  | 65.5  | 63.1  | 63.4  | 64.5  | 65.9  | 66.2  |
| 35°   | 499.5  | 457.6 | 264.7 | 72.5  | 64.1  | 60.3  | 56.8  | 55.0  | 54.1  | 53.4  | 54.1  |
| 37.5° | 536.8  | 487.2 | 233.9 | 65.9  | 60.1  | 55.4  | 50.6  | 46.6  | 43.3  | 41.2  | 41.7  |
| 40°   | 584.8  | 528.2 | 197.6 | 61.7  | 56.4  | 50.8  | 44.3  | 39.1  | 33.5  | 31.7  | 30.8  |
| 42.5° | 664.0  | 590.4 | 159.4 | 58.2  | 52.7  | 45.9  | 37.7  | 30.8  | 25.6  | 23.8  | 24.2  |
| 45°   | 789.1  | 668.9 | 122.8 | 54.5  | 48.9  | 40.5  | 31.7  | 24.2  | 20.0  | 19.1  | 19.6  |
| 47.5° | 955.0  | 770.5 | 94.6  | 50.3  | 44.3  | 34.7  | 24.9  | 19.1  | 16.5  | 16.3  | 16.1  |
| 50°   | 1111.1 | 865.1 | 79.0  | 45.7  | 38.7  | 28.9  | 20.5  | 16.1  | 14.4  | 14.2  | 14.2  |
| 52.5° | 1252.3 | 932.9 | 64.3  | 40.3  | 32.6  | 23.8  | 17.2  | 14.2  | 12.8  | 12.1  | 12.1  |
| 55°   | 1377.9 | 977.1 | 52.2  | 33.8  | 25.6  | 18.9  | 14.9  | 12.8  | 11.2  | 10.3  | 10.0  |
| 57.5° | 1472.7 | 982.5 | 39.1  | 27.0  | 19.1  | 14.7  | 12.8  | 11.2  | 9.3   | 8.2   | 7.7   |
| 60°   | 1513.2 | 936.1 | 28.9  | 20.5  | 14.2  | 11.6  | 10.3  | 9.1   | 7.0   | 5.8   | 5.6   |
| 62.5° | 1472.4 | 846.0 | 21.4  | 15.6  | 11.0  | 8.6   | 7.2   | 6.8   | 4.9   | 3.5   | 3.3   |
| 65°   | 1326.4 | 715.7 | 17.0  | 11.9  | 8.2   | 6.3   | 4.7   | 4.4   | 3.0   | 1.6   | 1.4   |
| 67.5° | 1062.6 | 560.6 | 13.5  | 8.9   | 5.8   | 4.2   | 3.0   | 2.8   | 1.6   | 0.5   | 0.5   |
| 70°   | 691.0  | 358.3 | 11.0  | 6.5   | 3.7   | 2.8   | 1.9   | 1.4   | 0.9   | 0.2   | 0.0   |
| 72.5° | 341.8  | 167.5 | 8.9   | 5.1   | 2.6   | 1.4   | 0.7   | 0.5   | 0.7   | 0.0   | 0.0   |
| 75°   | 132.6  | 59.6  | 6.5   | 3.5   | 1.4   | 0.7   | 0.5   | 0.0   | 0.2   | 0.0   | 0.0   |
| 77.5° | 44.0   | 19.8  | 4.0   | 1.9   | 0.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 16.3   | 7.7   | 2.1   | 1.2   | 0.5   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 6.5    | 3.0   | 1.4   | 0.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.3    | 1.9   | 0.9   | 0.7   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.3    | 1.4   | 0.9   | 0.7   | 0.5   | 0.2   | 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   | 0.0   |

(END OF REPORT)