

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: P527953

Luminaire Tested: **GLAN-SA3A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7334 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

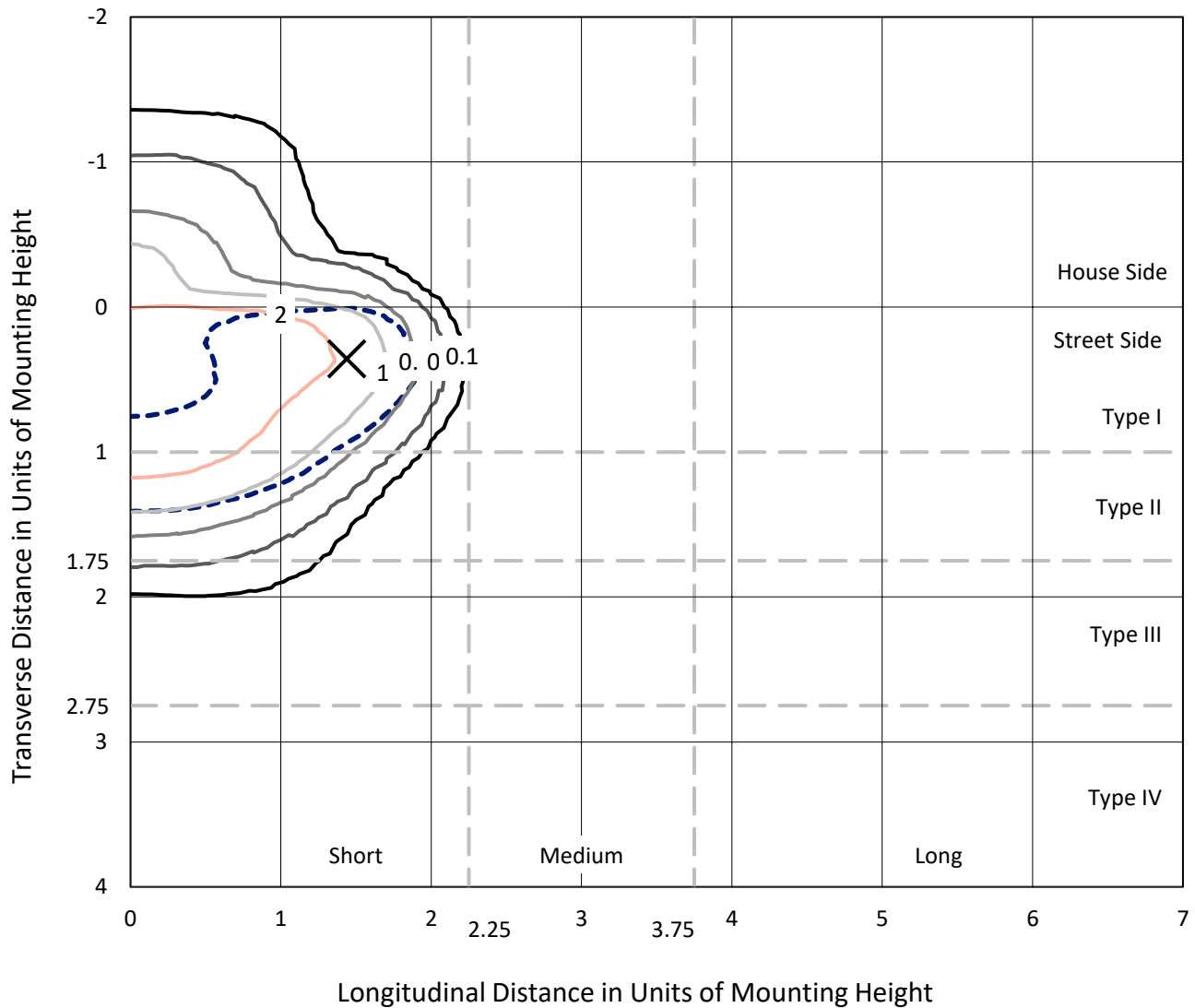
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

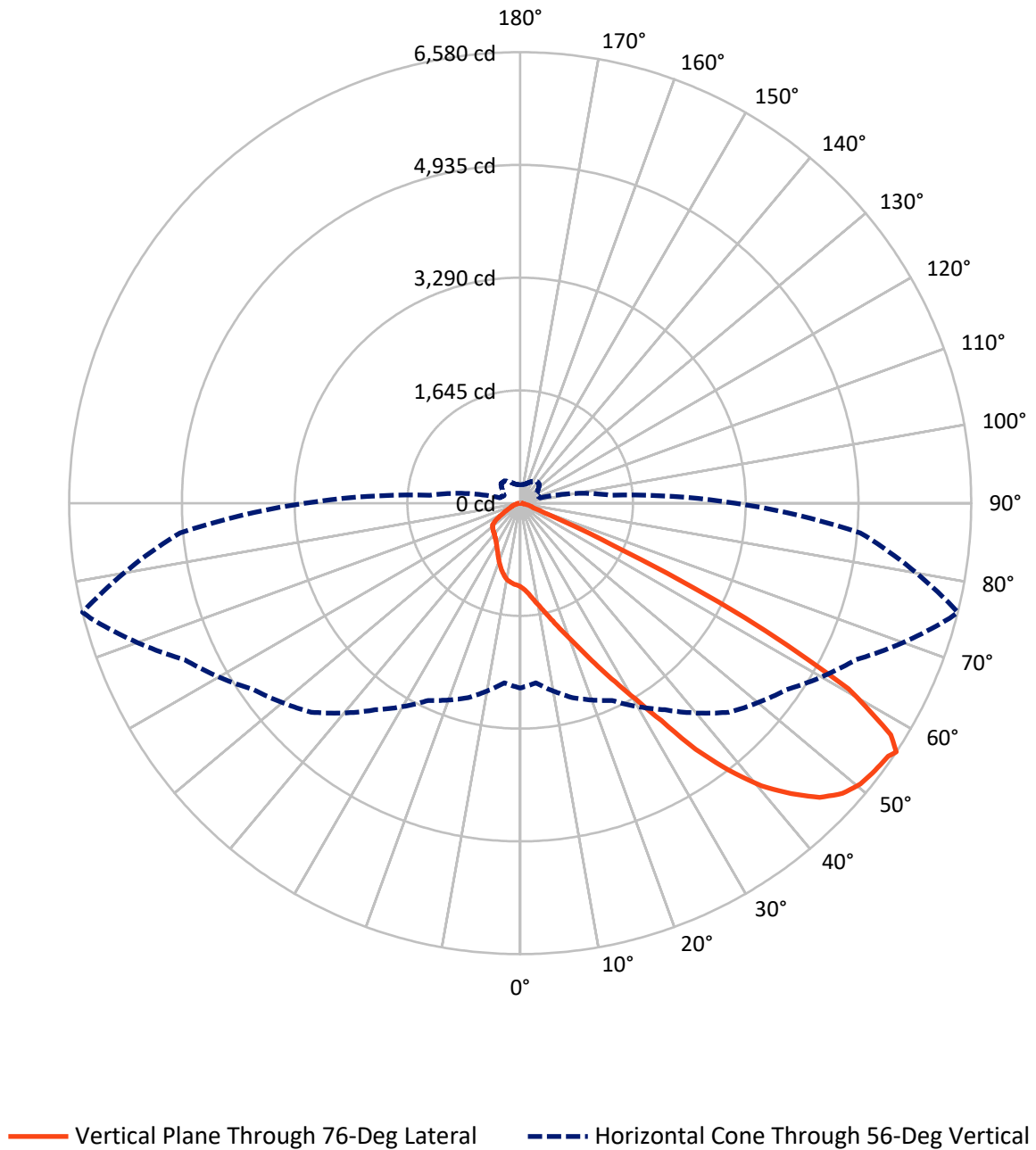
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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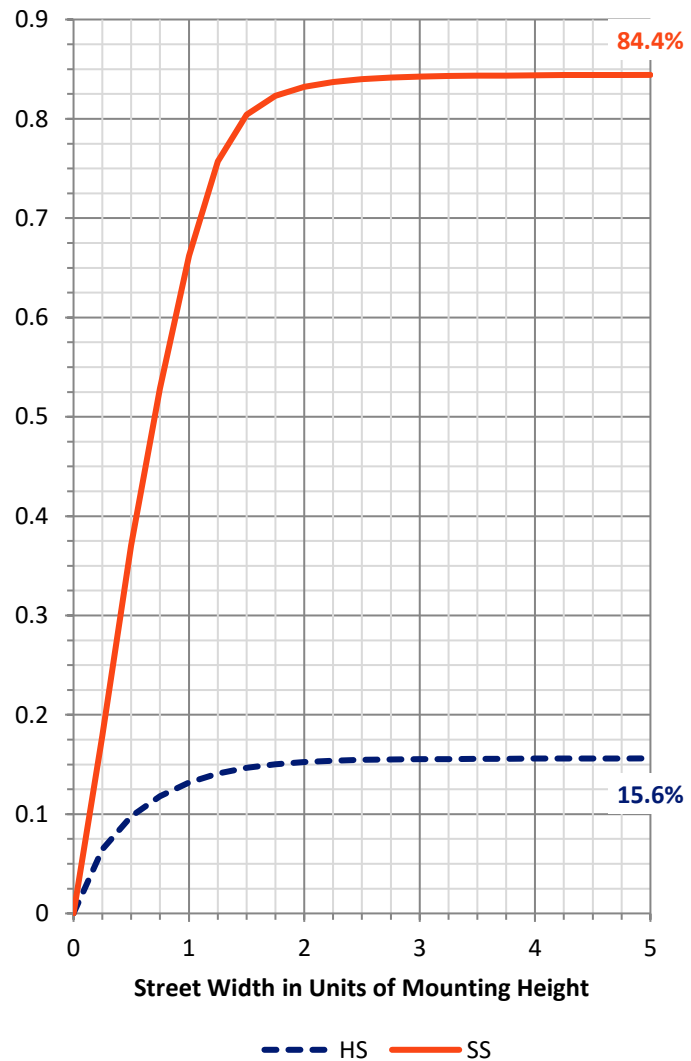
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1152.1   | 0.0    | 1152.1 |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 6181.9   | 0.0    | 6181.9 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 7334.0   | 0.0    | 7334.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.0  | 1.7       |
| 10°-20°   | 395.1  | 5.4       |
| 20°-30°   | 716.4  | 9.8       |
| 30°-40°   | 1235.4 | 16.8      |
| 40°-50°   | 2007.0 | 27.4      |
| 50°-60°   | 2115.4 | 28.8      |
| 60°-70°   | 646.4  | 8.8       |
| 70°-80°   | 82.9   | 1.1       |
| 80°-90°   | 12.6   | 0.2       |
| 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°    | 7334.0 | 100.0     |
| 0°-180°   | 7334.0 | 100.0     |

**Coefficient of Utilization**



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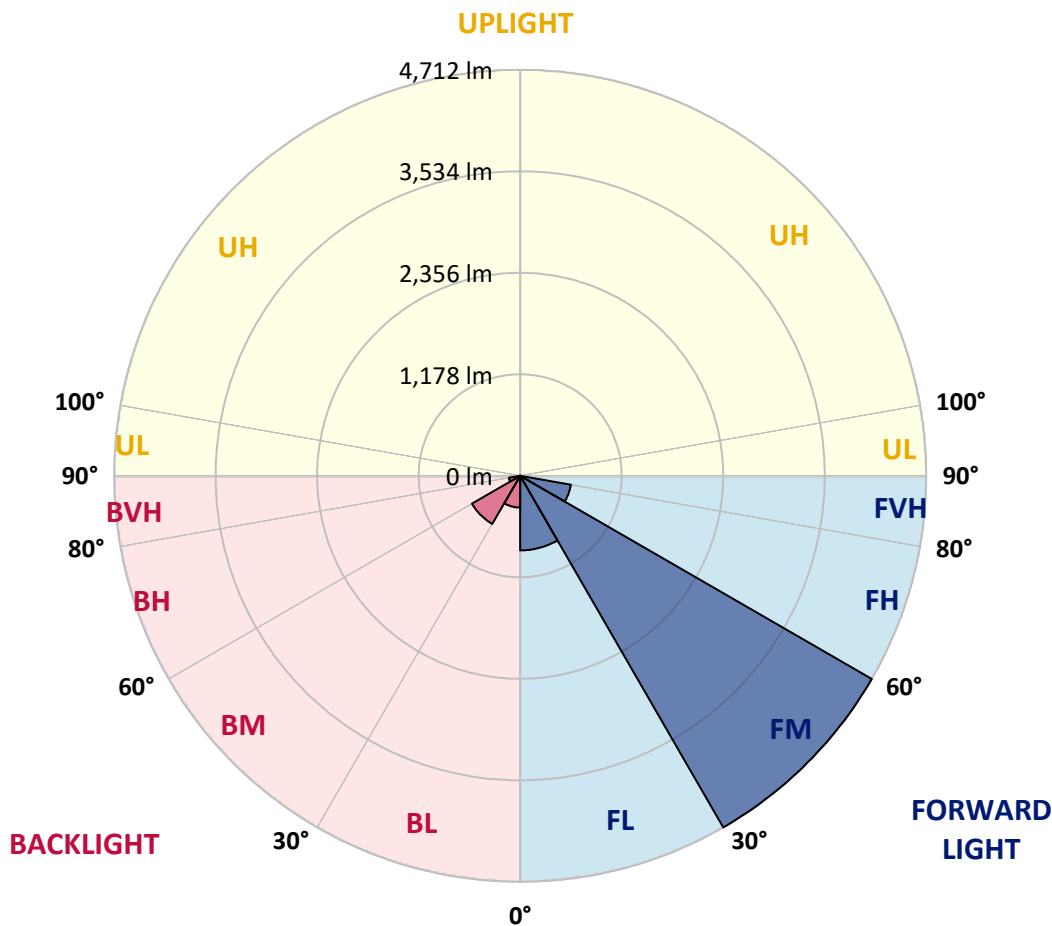
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 865.8  | 11.8      |                         |      |        |
| FM   | (30°-60°)   | 4712.1 | 64.2      |                         |      |        |
| FH   | (60°-80°)   | 597.8  | 8.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.2    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 368.6  | 5.0       | B1/500                  |      |        |
| BM   | (30°-60°)   | 645.7  | 8.8       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 131.4  | 1.8       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 6.4    | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 |
| 2.5°  | 1406.0 | 1373.5 | 1374.9 | 1372.2 | 1368.1 | 1353.2 | 1308.6 | 1301.9 | 1272.1 | 1264.0 | 1237.0 |
| 5°    | 1575.0 | 1546.6 | 1562.8 | 1538.4 | 1515.5 | 1501.9 | 1428.9 | 1395.1 | 1347.8 | 1330.3 | 1292.4 |
| 7.5°  | 1680.4 | 1666.9 | 1661.5 | 1662.8 | 1641.2 | 1607.4 | 1575.0 | 1500.6 | 1437.1 | 1423.5 | 1343.8 |
| 10°   | 1731.8 | 1723.7 | 1731.8 | 1727.7 | 1737.2 | 1741.2 | 1684.5 | 1639.8 | 1546.6 | 1523.6 | 1399.2 |
| 12.5° | 1743.9 | 1760.2 | 1766.9 | 1784.5 | 1807.5 | 1846.7 | 1842.6 | 1781.8 | 1657.4 | 1642.5 | 1484.4 |
| 15°   | 1773.7 | 1787.2 | 1780.4 | 1808.8 | 1852.1 | 1918.3 | 1953.5 | 1944.0 | 1810.2 | 1783.1 | 1583.1 |
| 17.5° | 1800.7 | 1776.4 | 1799.4 | 1856.1 | 1899.4 | 2000.8 | 2086.0 | 2125.2 | 1976.5 | 1945.4 | 1673.6 |
| 20°   | 1837.2 | 1830.5 | 1826.4 | 1854.8 | 1931.8 | 2067.0 | 2236.0 | 2307.7 | 2163.0 | 2130.6 | 1803.4 |
| 22.5° | 1948.1 | 1949.4 | 1946.7 | 1904.8 | 1960.2 | 2113.0 | 2367.2 | 2544.3 | 2386.1 | 2359.0 | 1950.8 |
| 25°   | 2094.1 | 2076.5 | 2063.0 | 2029.2 | 2022.4 | 2154.9 | 2499.6 | 2833.6 | 2653.8 | 2634.8 | 2110.3 |
| 27.5° | 2248.2 | 2248.2 | 2207.6 | 2176.5 | 2133.3 | 2259.0 | 2621.3 | 3114.8 | 2976.9 | 2951.2 | 2249.5 |
| 30°   | 2415.8 | 2425.3 | 2419.9 | 2353.6 | 2326.6 | 2372.6 | 2745.7 | 3474.4 | 3347.3 | 3314.8 | 2479.4 |
| 32.5° | 2663.2 | 2642.9 | 2665.9 | 2610.5 | 2530.7 | 2571.3 | 2941.7 | 3796.1 | 3828.5 | 3782.6 | 2780.8 |
| 35°   | 2990.4 | 2978.2 | 2963.3 | 2872.8 | 2778.1 | 2810.6 | 3218.8 | 4192.2 | 4432.8 | 4409.9 | 3085.0 |
| 37.5° | 3283.7 | 3277.0 | 3264.8 | 3202.6 | 3093.1 | 3132.3 | 3533.8 | 4604.5 | 5022.3 | 4946.6 | 3514.9 |
| 40°   | 3592.0 | 3628.5 | 3589.3 | 3533.8 | 3433.8 | 3520.3 | 3904.3 | 4849.2 | 5518.4 | 5426.5 | 3843.4 |
| 42.5° | 4009.7 | 3981.3 | 3998.9 | 3897.5 | 3843.4 | 3938.1 | 4276.0 | 5093.9 | 5903.7 | 5794.2 | 4192.2 |
| 45°   | 4454.5 | 4455.8 | 4408.5 | 4376.1 | 4235.5 | 4338.2 | 4504.5 | 5229.1 | 6210.6 | 6125.4 | 4455.8 |
| 47.5° | 4739.7 | 4738.4 | 4789.7 | 4841.1 | 4696.5 | 4595.1 | 4660.0 | 5357.5 | 6368.7 | 6329.5 | 4551.8 |
| 50°   | 4695.1 | 4708.6 | 4774.9 | 4966.8 | 5042.5 | 4906.0 | 4806.0 | 5319.7 | 6440.4 | 6436.3 | 4634.3 |
| 52.5° | 4084.1 | 4128.7 | 4239.5 | 4516.7 | 4897.9 | 5066.9 | 4958.7 | 5390.0 | 6475.5 | 6482.3 | 4757.3 |
| 55°   | 3109.3 | 3133.7 | 3344.6 | 3681.2 | 4103.0 | 4681.6 | 4897.9 | 5445.4 | 6502.6 | 6514.8 | 4906.0 |
| 56°   | 2697.0 | 2632.1 | 2936.3 | 3175.6 | 3679.8 | 4312.5 | 4743.8 | 5402.1 | 6486.4 | 6579.6 | 4980.4 |
| 57.5° | 2035.9 | 1992.7 | 2238.7 | 2537.5 | 3022.8 | 3690.7 | 4265.2 | 5198.0 | 6376.9 | 6375.5 | 4873.6 |
| 60°   | 1238.3 | 1195.1 | 1384.3 | 1560.1 | 1831.8 | 2272.5 | 2882.2 | 4139.5 | 5391.3 | 5504.9 | 3946.2 |
| 62.5° | 736.8  | 763.8  | 950.4  | 1057.2 | 1145.0 | 1191.0 | 1491.1 | 2460.4 | 3597.4 | 3678.5 | 2448.3 |
| 65°   | 490.7  | 500.2  | 640.8  | 816.5  | 855.7  | 681.4  | 607.0  | 996.3  | 1560.1 | 1510.1 | 1009.9 |
| 67.5° | 302.8  | 324.5  | 429.9  | 613.8  | 680.0  | 497.5  | 288.0  | 371.8  | 429.9  | 429.9  | 292.0  |
| 70°   | 183.9  | 194.7  | 286.6  | 417.7  | 466.4  | 320.4  | 209.5  | 209.5  | 206.8  | 202.8  | 174.4  |
| 72.5° | 87.9   | 94.6   | 146.0  | 215.0  | 219.0  | 169.0  | 162.2  | 177.1  | 173.0  | 171.7  | 144.7  |
| 75°   | 37.9   | 40.6   | 51.4   | 67.6   | 77.1   | 71.7   | 98.7   | 127.1  | 131.1  | 127.1  | 104.1  |
| 77.5° | 12.2   | 13.5   | 18.9   | 24.3   | 25.7   | 31.1   | 41.9   | 52.7   | 60.8   | 56.8   | 51.4   |
| 80°   | 1.4    | 2.7    | 5.4    | 12.2   | 18.9   | 24.3   | 31.1   | 35.1   | 39.2   | 39.2   | 36.5   |
| 82.5° | 1.4    | 1.4    | 5.4    | 10.8   | 17.6   | 23.0   | 29.7   | 33.8   | 39.2   | 40.6   | 37.9   |
| 85°   | 0.0    | 1.4    | 4.1    | 9.5    | 14.9   | 14.9   | 13.5   | 13.5   | 9.5    | 9.5    | 9.5    |
| 87.5° | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 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°    | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 | 1220.8 |
| 2.5°  | 1231.6 | 1228.9 | 1192.4 | 1169.4 | 1157.2 | 1132.9 | 1118.0 | 1107.2 | 1099.1 | 1089.6 | 1091.0 |
| 5°    | 1247.8 | 1238.3 | 1177.5 | 1135.6 | 1085.6 | 1058.5 | 1035.5 | 1016.6 | 1004.5 | 1001.7 | 996.3  |
| 7.5°  | 1293.8 | 1243.7 | 1151.8 | 1076.1 | 1012.6 | 985.5  | 965.2  | 953.1  | 958.5  | 946.3  | 955.8  |
| 10°   | 1328.9 | 1254.6 | 1120.7 | 1011.2 | 947.7  | 927.4  | 916.6  | 926.0  | 939.6  | 934.2  | 927.4  |
| 12.5° | 1372.2 | 1265.4 | 1070.7 | 949.0  | 889.5  | 874.7  | 893.6  | 911.2  | 938.2  | 949.0  | 935.5  |
| 15°   | 1420.8 | 1277.5 | 1007.2 | 877.4  | 839.5  | 851.7  | 884.1  | 915.2  | 942.3  | 955.8  | 963.9  |
| 17.5° | 1480.3 | 1273.5 | 945.0  | 820.6  | 792.2  | 827.4  | 866.6  | 895.0  | 935.5  | 955.8  | 950.4  |
| 20°   | 1535.7 | 1260.0 | 876.0  | 763.8  | 765.2  | 797.6  | 830.1  | 876.0  | 897.7  | 924.7  | 915.2  |
| 22.5° | 1588.5 | 1235.6 | 804.4  | 724.6  | 724.6  | 774.6  | 790.9  | 820.6  | 839.5  | 853.0  | 851.7  |
| 25°   | 1662.8 | 1189.7 | 744.9  | 686.8  | 703.0  | 735.4  | 748.9  | 758.4  | 750.3  | 761.1  | 762.5  |
| 27.5° | 1715.5 | 1142.3 | 696.2  | 653.0  | 682.7  | 707.0  | 703.0  | 697.6  | 678.6  | 663.8  | 673.2  |
| 30°   | 1772.3 | 1086.9 | 654.3  | 630.0  | 646.2  | 667.8  | 651.6  | 635.4  | 605.6  | 581.3  | 582.7  |
| 32.5° | 1853.4 | 1061.2 | 617.8  | 602.9  | 624.6  | 627.3  | 609.7  | 585.4  | 555.6  | 532.6  | 531.3  |
| 35°   | 2004.9 | 1045.0 | 586.7  | 585.4  | 589.4  | 590.8  | 573.2  | 543.5  | 531.3  | 512.4  | 519.1  |
| 37.5° | 2156.3 | 1036.9 | 565.1  | 559.7  | 558.3  | 559.7  | 539.4  | 511.0  | 534.0  | 532.6  | 535.3  |
| 40°   | 2349.6 | 1073.4 | 534.0  | 527.2  | 528.6  | 528.6  | 502.9  | 494.8  | 535.3  | 539.4  | 540.8  |
| 42.5° | 2545.6 | 1119.4 | 513.7  | 492.1  | 497.5  | 497.5  | 484.0  | 474.5  | 502.9  | 475.9  | 471.8  |
| 45°   | 2715.9 | 1187.0 | 492.1  | 456.9  | 470.5  | 477.2  | 473.2  | 456.9  | 439.4  | 393.4  | 393.4  |
| 47.5° | 2771.4 | 1246.4 | 466.4  | 423.1  | 434.0  | 463.7  | 451.5  | 417.7  | 386.6  | 348.8  | 346.1  |
| 50°   | 2868.7 | 1311.3 | 446.1  | 383.9  | 406.9  | 443.4  | 431.3  | 397.5  | 362.3  | 335.3  | 336.6  |
| 52.5° | 2968.7 | 1385.7 | 408.3  | 338.0  | 366.4  | 427.2  | 427.2  | 389.3  | 335.3  | 316.3  | 313.6  |
| 55°   | 3118.8 | 1383.0 | 340.7  | 277.1  | 327.2  | 402.9  | 409.6  | 348.8  | 300.1  | 285.2  | 285.2  |
| 56°   | 3140.4 | 1320.8 | 306.9  | 259.6  | 309.6  | 396.1  | 397.5  | 338.0  | 286.6  | 270.4  | 270.4  |
| 57.5° | 2978.2 | 1192.4 | 269.0  | 237.9  | 288.0  | 383.9  | 385.3  | 328.5  | 275.8  | 252.8  | 250.1  |
| 60°   | 2291.5 | 807.1  | 224.4  | 212.2  | 260.9  | 346.1  | 352.8  | 298.8  | 242.0  | 224.4  | 223.1  |
| 62.5° | 1293.8 | 447.5  | 197.4  | 192.0  | 224.4  | 294.7  | 315.0  | 260.9  | 205.5  | 196.0  | 198.7  |
| 65°   | 590.8  | 246.0  | 166.3  | 155.5  | 181.2  | 227.1  | 254.2  | 215.0  | 169.0  | 158.2  | 158.2  |
| 67.5° | 216.3  | 167.6  | 141.9  | 123.0  | 127.1  | 147.4  | 164.9  | 139.2  | 112.2  | 96.0   | 100.0  |
| 70°   | 154.1  | 140.6  | 124.4  | 106.8  | 98.7   | 96.0   | 94.6   | 78.4   | 55.4   | 43.3   | 46.0   |
| 72.5° | 124.4  | 116.3  | 104.1  | 90.6   | 77.1   | 64.9   | 55.4   | 40.6   | 25.7   | 17.6   | 16.2   |
| 75°   | 89.2   | 85.2   | 75.7   | 64.9   | 54.1   | 46.0   | 37.9   | 25.7   | 13.5   | 6.8    | 6.8    |
| 77.5° | 46.0   | 46.0   | 44.6   | 40.6   | 33.8   | 27.0   | 21.6   | 14.9   | 8.1    | 2.7    | 2.7    |
| 80°   | 35.1   | 37.9   | 39.2   | 35.1   | 31.1   | 24.3   | 17.6   | 10.8   | 5.4    | 1.4    | 1.4    |
| 82.5° | 33.8   | 39.2   | 41.9   | 36.5   | 31.1   | 23.0   | 17.6   | 10.8   | 5.4    | 1.4    | 1.4    |
| 85°   | 8.1    | 8.1    | 12.2   | 13.5   | 17.6   | 18.9   | 14.9   | 9.5    | 4.1    | 1.4    | 1.4    |
| 87.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 1.4    | 1.4    | 1.4    | 1.4    | 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)