

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: P192129

Luminaire Tested: **GAN-AF-01-LED-U-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SLR-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5478 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 59  
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: 28.75 FT

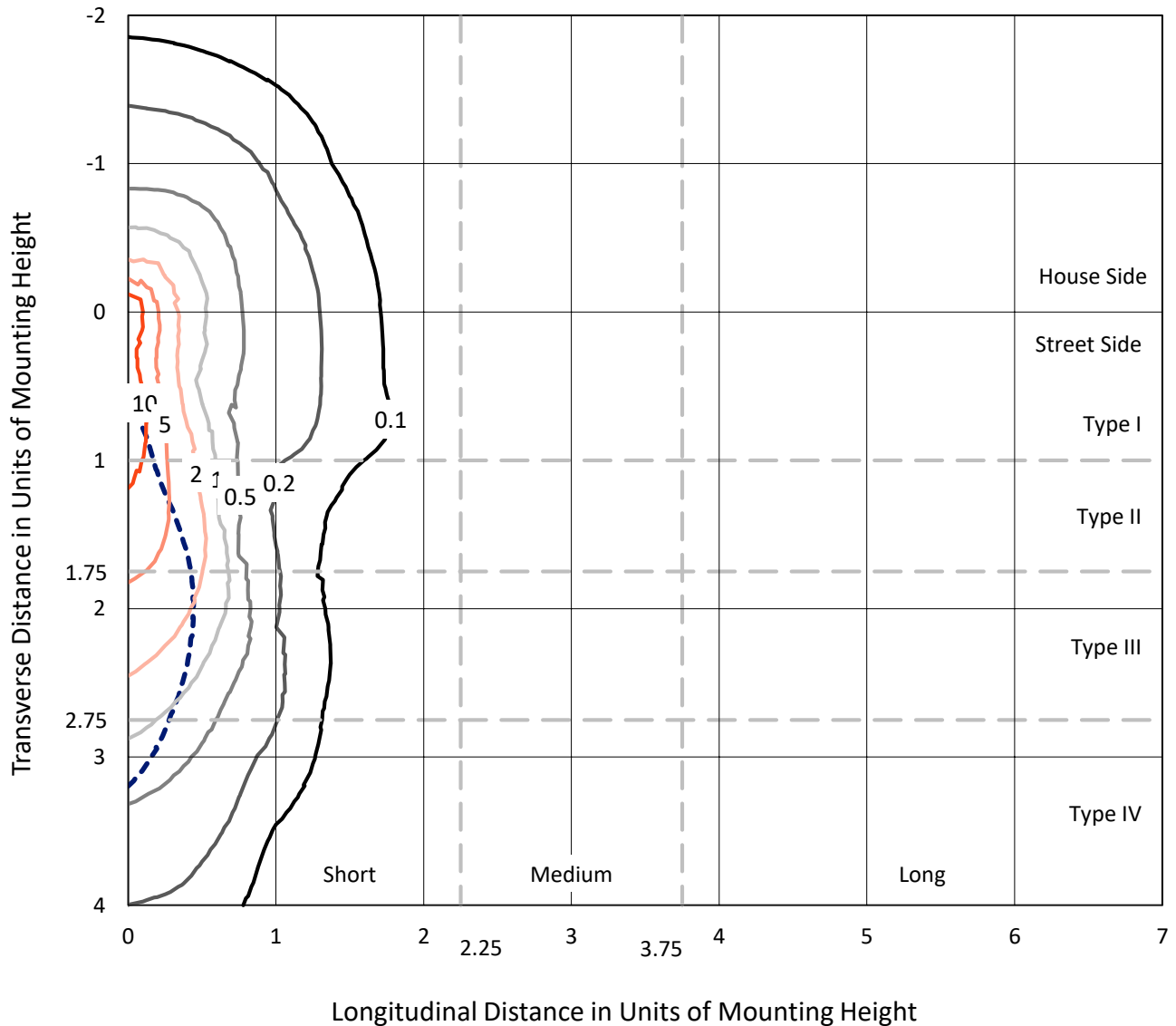


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

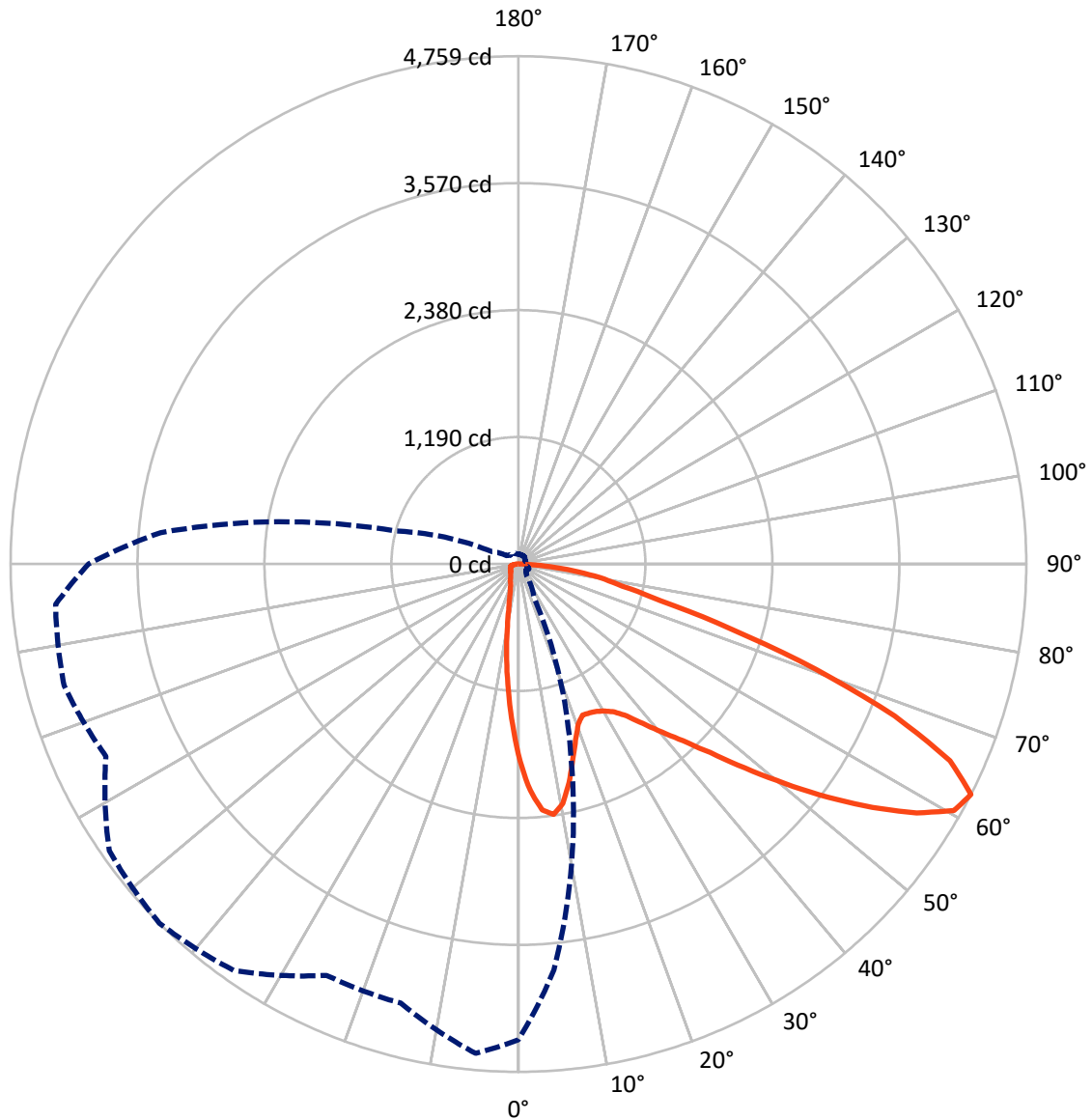


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 906.5    | 0.0    | 906.5  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 4571.5   | 0.0    | 4571.5 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 5478.0   | 0.0    | 5478.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.7  | 2.5       |
| 10°-20°   | 247.1  | 4.5       |
| 20°-30°   | 360.2  | 6.6       |
| 30°-40°   | 554.8  | 10.1      |
| 40°-50°   | 816.5  | 14.9      |
| 50°-60°   | 1197.6 | 21.9      |
| 60°-70°   | 1338.7 | 24.4      |
| 70°-80°   | 655.4  | 12.0      |
| 80°-90°   | 173.0  | 3.2       |
| 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°    | 5478.0 | 100.0     |
| 0°-180°   | 5478.0 | 100.0     |



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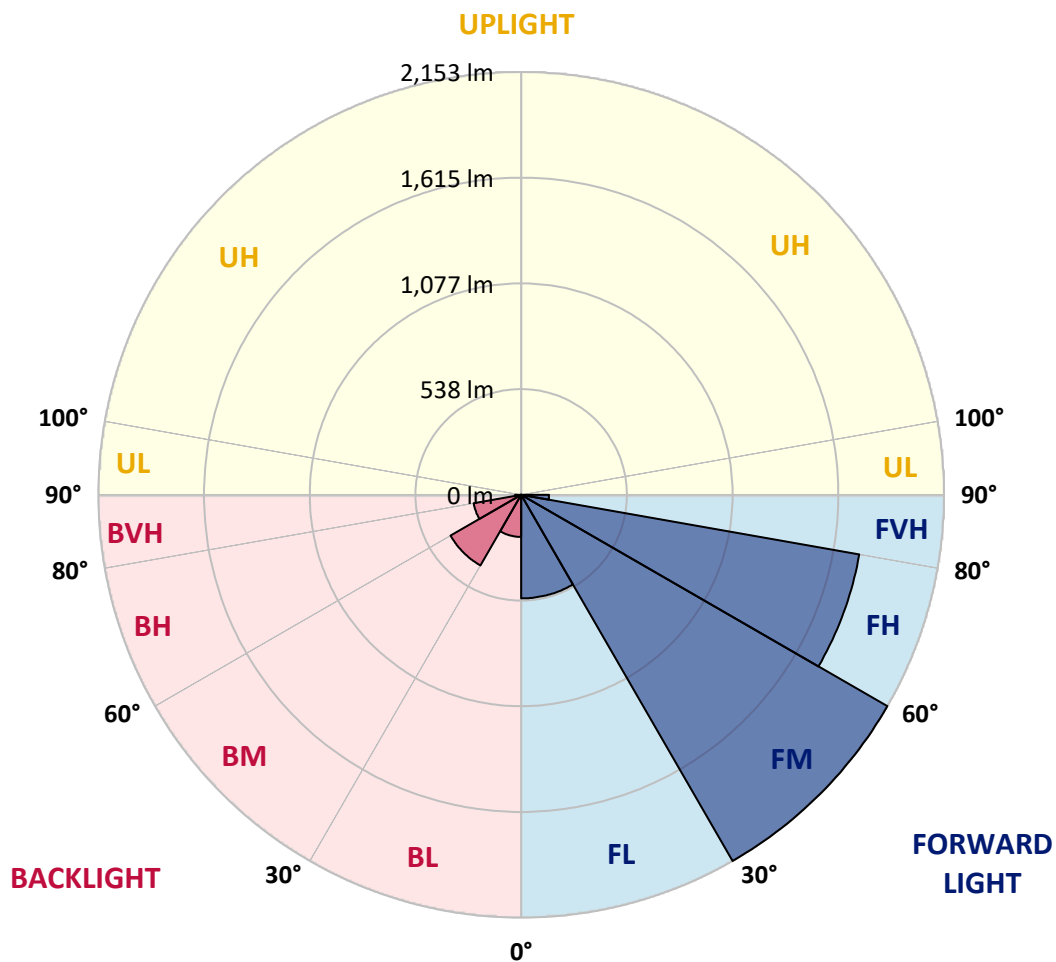
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 527.5  | 9.6       |                         |      |         |
| FM (30°-60°)   | 2153.5 | 39.3      |                         |      |         |
| FH (60°-80°)   | 1748.4 | 31.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 142.1  | 2.6       |                         |      | G2/225  |
| BL (0°-30°)    | 214.5  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 415.4  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 245.8  | 4.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 30.9   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 |
| 2.5°  | 1923.0 | 1883.9 | 1818.8 | 1751.1 | 1709.8 | 1661.7 | 1624.0 | 1590.9 | 1524.6 | 1511.7 | 1523.4 |
| 5°    | 1808.3 | 1729.7 | 1607.1 | 1483.7 | 1401.5 | 1313.2 | 1244.6 | 1189.5 | 1105.5 | 1090.7 | 1108.5 |
| 7.5°  | 1624.3 | 1530.4 | 1368.3 | 1210.9 | 1094.6 | 984.4  | 910.3  | 851.3  | 785.7  | 757.3  | 759.2  |
| 10°   | 1465.6 | 1359.6 | 1168.1 | 996.8  | 901.6  | 827.2  | 764.9  | 704.4  | 637.8  | 594.1  | 582.1  |
| 12.5° | 1376.8 | 1254.8 | 1034.1 | 881.1  | 792.9  | 714.6  | 647.4  | 582.7  | 511.6  | 467.1  | 454.4  |
| 15°   | 1361.4 | 1228.9 | 983.8  | 807.0  | 696.5  | 597.4  | 518.2  | 446.0  | 372.8  | 336.7  | 329.1  |
| 17.5° | 1428.0 | 1275.3 | 967.5  | 741.1  | 605.9  | 483.6  | 386.4  | 305.7  | 246.0  | 228.0  | 226.5  |
| 20°   | 1555.7 | 1364.4 | 965.4  | 679.1  | 516.4  | 373.1  | 269.2  | 210.5  | 184.3  | 179.2  | 179.5  |
| 22.5° | 1734.8 | 1502.7 | 991.3  | 632.4  | 434.2  | 278.2  | 202.4  | 176.2  | 165.9  | 161.1  | 161.1  |
| 25°   | 1966.7 | 1693.0 | 1051.0 | 598.4  | 362.9  | 222.2  | 178.6  | 162.9  | 153.3  | 150.0  | 150.6  |
| 27.5° | 2191.3 | 1878.2 | 1120.2 | 571.6  | 316.2  | 201.8  | 169.2  | 155.1  | 146.7  | 143.3  | 144.8  |
| 30°   | 2366.6 | 2042.6 | 1178.0 | 535.1  | 292.4  | 196.0  | 172.5  | 158.1  | 146.0  | 140.9  | 141.2  |
| 32.5° | 2511.8 | 2186.5 | 1226.5 | 508.9  | 271.3  | 168.0  | 148.8  | 142.4  | 140.9  | 134.9  | 131.9  |
| 35°   | 2697.2 | 2343.4 | 1259.0 | 509.5  | 261.4  | 150.0  | 132.5  | 121.4  | 113.2  | 106.3  | 106.3  |
| 37.5° | 2914.7 | 2523.5 | 1293.7 | 516.4  | 257.8  | 139.4  | 126.8  | 115.6  | 108.1  | 101.5  | 100.3  |
| 40°   | 3129.7 | 2700.0 | 1325.3 | 523.1  | 255.7  | 133.1  | 122.3  | 112.0  | 105.1  | 98.5   | 96.7   |
| 42.5° | 3312.5 | 2845.1 | 1353.6 | 526.4  | 248.4  | 132.5  | 118.9  | 109.6  | 103.0  | 95.8   | 94.0   |
| 45°   | 3447.7 | 2966.8 | 1384.0 | 531.5  | 241.2  | 134.9  | 118.9  | 109.3  | 101.2  | 94.3   | 92.4   |
| 47.5° | 3568.4 | 3109.5 | 1434.9 | 531.5  | 232.5  | 130.4  | 122.9  | 109.6  | 100.9  | 93.7   | 92.1   |
| 50°   | 3730.1 | 3305.2 | 1531.3 | 519.2  | 220.1  | 125.6  | 129.5  | 108.4  | 98.2   | 92.4   | 90.6   |
| 52.5° | 3953.0 | 3556.1 | 1684.2 | 497.8  | 201.2  | 116.2  | 128.6  | 107.8  | 95.5   | 89.4   | 87.3   |
| 55°   | 4216.5 | 3824.7 | 1851.1 | 472.8  | 172.9  | 109.6  | 124.1  | 106.3  | 92.4   | 85.8   | 83.7   |
| 57.5° | 4422.1 | 4009.6 | 1968.5 | 434.2  | 148.2  | 106.0  | 109.9  | 104.8  | 88.8   | 81.9   | 80.1   |
| 60°   | 4504.0 | 4002.4 | 2000.7 | 382.7  | 136.1  | 103.0  | 96.1   | 117.4  | 85.8   | 78.9   | 76.8   |
| 62.5° | 4459.8 | 3817.5 | 1910.4 | 346.6  | 133.4  | 99.1   | 90.0   | 108.7  | 83.4   | 76.8   | 73.8   |
| 65°   | 4255.3 | 3489.8 | 1671.0 | 337.0  | 141.2  | 95.2   | 86.1   | 85.2   | 80.1   | 73.8   | 70.8   |
| 67.5° | 3809.9 | 3000.2 | 1337.9 | 337.9  | 151.2  | 91.2   | 82.2   | 78.0   | 75.6   | 70.5   | 67.8   |
| 70°   | 3103.2 | 2372.0 | 997.4  | 340.3  | 156.3  | 86.7   | 78.0   | 73.5   | 70.8   | 65.6   | 63.8   |
| 72.5° | 2281.7 | 1828.2 | 724.5  | 324.6  | 157.2  | 81.6   | 72.3   | 68.4   | 65.6   | 60.2   | 58.7   |
| 75°   | 1561.1 | 1398.5 | 502.6  | 268.9  | 137.0  | 74.4   | 65.9   | 62.3   | 60.5   | 53.9   | 53.0   |
| 77.5° | 1140.4 | 1049.7 | 321.6  | 199.7  | 105.7  | 65.3   | 58.1   | 55.4   | 54.2   | 47.0   | 45.8   |
| 80°   | 915.1  | 830.5  | 201.2  | 136.7  | 77.4   | 54.8   | 48.8   | 47.3   | 46.1   | 38.8   | 37.9   |
| 82.5° | 634.8  | 556.2  | 129.2  | 88.8   | 58.1   | 42.5   | 38.5   | 37.9   | 36.1   | 29.5   | 28.6   |
| 85°   | 334.9  | 302.0  | 81.9   | 60.5   | 42.2   | 29.2   | 26.8   | 26.8   | 25.9   | 19.6   | 19.0   |
| 87.5° | 42.8   | 69.6   | 41.6   | 31.6   | 23.2   | 12.9   | 12.9   | 12.6   | 13.6   | 11.1   | 9.6    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 |
| 2.5°  | 1495.7 | 1510.2 | 1496.3 | 1497.2 | 1512.6 | 1558.4 | 1579.1 | 1596.3 | 1614.7 | 1626.7 | 1632.1 |
| 5°    | 1084.1 | 1117.8 | 1129.2 | 1153.3 | 1188.9 | 1247.3 | 1270.5 | 1287.3 | 1298.5 | 1305.1 | 1307.8 |
| 7.5°  | 741.4  | 761.9  | 784.8  | 823.6  | 901.0  | 935.3  | 950.7  | 946.8  | 934.1  | 929.6  | 925.1  |
| 10°   | 558.9  | 550.8  | 546.6  | 567.9  | 630.6  | 665.2  | 676.0  | 665.5  | 658.6  | 660.1  | 667.6  |
| 12.5° | 433.0  | 418.9  | 401.7  | 399.3  | 440.6  | 471.6  | 478.5  | 479.1  | 491.8  | 502.9  | 519.5  |
| 15°   | 315.6  | 314.1  | 305.7  | 300.5  | 324.0  | 349.3  | 352.3  | 357.7  | 369.2  | 377.3  | 391.8  |
| 17.5° | 222.5  | 230.7  | 237.3  | 240.6  | 258.4  | 276.4  | 273.1  | 270.4  | 268.3  | 268.3  | 275.2  |
| 20°   | 179.5  | 184.9  | 193.3  | 203.0  | 221.0  | 233.7  | 225.5  | 214.7  | 206.9  | 204.5  | 205.4  |
| 22.5° | 161.7  | 165.9  | 170.7  | 179.2  | 195.4  | 204.2  | 195.4  | 187.6  | 179.8  | 177.1  | 176.2  |
| 25°   | 152.7  | 158.1  | 162.6  | 168.9  | 181.0  | 187.0  | 178.6  | 172.9  | 168.0  | 164.7  | 162.3  |
| 27.5° | 147.6  | 152.4  | 153.6  | 156.6  | 166.8  | 172.2  | 168.0  | 165.6  | 162.6  | 159.6  | 156.6  |
| 30°   | 142.1  | 141.2  | 139.1  | 139.4  | 147.6  | 153.0  | 152.7  | 153.3  | 153.0  | 152.1  | 151.5  |
| 32.5° | 129.8  | 128.0  | 126.2  | 128.0  | 135.5  | 140.3  | 140.6  | 141.8  | 141.8  | 141.5  | 143.9  |
| 35°   | 108.1  | 111.4  | 113.5  | 118.9  | 128.0  | 132.2  | 130.4  | 127.4  | 122.0  | 118.6  | 118.3  |
| 37.5° | 100.0  | 100.6  | 104.2  | 111.7  | 121.7  | 125.6  | 122.9  | 115.9  | 112.3  | 111.7  | 112.6  |
| 40°   | 96.1   | 96.7   | 98.8   | 105.7  | 115.6  | 119.5  | 117.1  | 112.0  | 108.7  | 108.4  | 109.9  |
| 42.5° | 93.4   | 94.0   | 95.2   | 100.0  | 108.1  | 112.9  | 113.2  | 109.6  | 105.7  | 106.0  | 107.5  |
| 45°   | 91.8   | 92.1   | 91.8   | 94.3   | 101.8  | 107.5  | 109.9  | 107.5  | 104.2  | 104.8  | 106.6  |
| 47.5° | 91.5   | 90.6   | 89.4   | 90.0   | 97.9   | 103.6  | 106.6  | 105.7  | 104.2  | 104.8  | 106.3  |
| 50°   | 90.3   | 88.2   | 86.7   | 86.4   | 94.3   | 100.3  | 103.0  | 103.0  | 103.6  | 104.8  | 106.3  |
| 52.5° | 86.7   | 84.3   | 84.3   | 83.4   | 91.8   | 97.6   | 99.4   | 99.7   | 100.6  | 102.7  | 104.8  |
| 55°   | 82.2   | 81.3   | 82.2   | 80.7   | 90.0   | 95.5   | 96.4   | 97.0   | 97.6   | 99.4   | 102.4  |
| 57.5° | 78.3   | 77.1   | 79.2   | 78.6   | 88.5   | 93.4   | 93.4   | 94.6   | 94.6   | 97.0   | 99.4   |
| 60°   | 76.2   | 73.8   | 74.7   | 75.3   | 86.4   | 91.5   | 90.9   | 92.1   | 92.7   | 94.9   | 96.7   |
| 62.5° | 73.5   | 71.4   | 71.4   | 72.9   | 84.0   | 88.8   | 88.5   | 89.4   | 91.8   | 92.4   | 94.3   |
| 65°   | 70.2   | 69.3   | 68.4   | 70.2   | 81.6   | 85.8   | 86.1   | 87.3   | 89.4   | 90.0   | 91.5   |
| 67.5° | 66.9   | 67.2   | 65.3   | 67.2   | 79.5   | 82.8   | 82.8   | 85.2   | 86.1   | 87.3   | 88.8   |
| 70°   | 63.2   | 63.5   | 62.0   | 64.1   | 78.0   | 79.5   | 79.2   | 82.5   | 83.1   | 84.0   | 85.5   |
| 72.5° | 58.7   | 58.7   | 58.1   | 61.1   | 75.6   | 76.2   | 75.6   | 78.3   | 78.6   | 79.5   | 80.1   |
| 75°   | 53.9   | 53.9   | 53.3   | 57.5   | 74.1   | 72.6   | 70.8   | 72.9   | 73.5   | 74.1   | 74.1   |
| 77.5° | 47.6   | 48.2   | 48.2   | 53.3   | 69.0   | 71.1   | 65.0   | 66.2   | 67.2   | 67.5   | 66.6   |
| 80°   | 39.7   | 41.3   | 41.9   | 48.5   | 57.8   | 65.6   | 58.1   | 59.0   | 59.3   | 59.3   | 58.1   |
| 82.5° | 30.4   | 33.1   | 34.6   | 41.9   | 44.3   | 55.1   | 50.6   | 51.5   | 50.6   | 48.8   | 48.2   |
| 85°   | 21.1   | 24.7   | 26.5   | 31.9   | 33.4   | 42.5   | 42.2   | 42.2   | 40.4   | 37.9   | 37.6   |
| 87.5° | 11.4   | 13.6   | 14.8   | 19.0   | 22.9   | 28.6   | 31.0   | 30.1   | 28.6   | 27.1   | 27.4   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 |
| 2.5°  | 1660.4 | 1701.4 | 1766.7 | 1816.7 | 1867.0 | 1915.5 | 1967.9 | 2008.0 | 2042.0 | 2055.2 | 2095.6 |
| 5°    | 1335.2 | 1386.4 | 1448.1 | 1559.6 | 1638.5 | 1725.5 | 1826.1 | 1959.2 | 2010.4 | 2081.1 | 2197.1 |
| 7.5°  | 944.1  | 990.4  | 1089.8 | 1179.8 | 1291.6 | 1414.7 | 1550.5 | 1734.2 | 1801.4 | 1914.9 | 2103.7 |
| 10°   | 705.0  | 758.9  | 838.7  | 914.5  | 1013.0 | 1138.9 | 1294.9 | 1500.2 | 1581.9 | 1705.0 | 1922.4 |
| 12.5° | 567.9  | 631.5  | 716.1  | 787.5  | 863.6  | 952.5  | 1104.0 | 1329.2 | 1438.5 | 1546.3 | 1766.1 |
| 15°   | 436.3  | 502.9  | 581.5  | 672.1  | 756.1  | 851.9  | 1010.6 | 1256.9 | 1382.8 | 1495.1 | 1682.7 |
| 17.5° | 302.0  | 359.0  | 458.0  | 552.6  | 660.1  | 782.6  | 984.7  | 1272.3 | 1422.6 | 1552.0 | 1697.2 |
| 20°   | 214.1  | 246.6  | 327.9  | 437.5  | 571.6  | 725.4  | 979.9  | 1353.0 | 1548.4 | 1696.3 | 1789.9 |
| 22.5° | 180.1  | 192.1  | 239.4  | 340.0  | 494.8  | 682.7  | 996.8  | 1466.2 | 1718.3 | 1907.1 | 1937.8 |
| 25°   | 164.1  | 171.3  | 196.0  | 266.8  | 426.4  | 651.7  | 1053.7 | 1634.9 | 1928.5 | 2117.9 | 2112.4 |
| 27.5° | 155.4  | 162.9  | 179.2  | 225.2  | 374.9  | 632.4  | 1110.6 | 1834.8 | 2168.8 | 2346.7 | 2279.3 |
| 30°   | 152.7  | 162.9  | 180.1  | 212.3  | 338.2  | 602.0  | 1157.3 | 2010.4 | 2353.7 | 2501.2 | 2355.2 |
| 32.5° | 150.6  | 152.1  | 159.9  | 183.1  | 303.2  | 566.4  | 1188.9 | 2167.9 | 2534.6 | 2648.2 | 2464.5 |
| 35°   | 121.7  | 129.2  | 141.8  | 164.1  | 282.8  | 545.1  | 1188.9 | 2303.7 | 2712.9 | 2796.6 | 2568.7 |
| 37.5° | 117.1  | 123.8  | 134.9  | 153.9  | 271.3  | 534.5  | 1165.1 | 2434.7 | 2895.1 | 2965.0 | 2654.5 |
| 40°   | 114.7  | 120.2  | 130.7  | 146.0  | 266.5  | 522.5  | 1130.5 | 2550.3 | 3073.1 | 3133.6 | 2734.6 |
| 42.5° | 112.9  | 117.7  | 127.7  | 141.2  | 260.2  | 509.2  | 1102.4 | 2643.0 | 3227.5 | 3277.5 | 2811.1 |
| 45°   | 112.0  | 117.1  | 128.0  | 143.6  | 247.5  | 491.8  | 1093.1 | 2743.3 | 3354.6 | 3397.7 | 2893.9 |
| 47.5° | 112.0  | 118.0  | 129.5  | 148.8  | 232.5  | 473.7  | 1122.3 | 2875.5 | 3474.8 | 3495.9 | 2991.5 |
| 50°   | 111.1  | 117.7  | 133.7  | 143.6  | 210.5  | 450.8  | 1191.0 | 3042.0 | 3604.9 | 3607.3 | 3114.9 |
| 52.5° | 109.3  | 117.1  | 143.9  | 140.6  | 185.2  | 420.7  | 1283.7 | 3255.9 | 3797.3 | 3811.7 | 3308.2 |
| 55°   | 107.2  | 116.2  | 141.2  | 133.7  | 164.4  | 384.8  | 1359.6 | 3515.7 | 4067.7 | 4107.8 | 3592.5 |
| 57.5° | 104.5  | 115.0  | 136.7  | 124.1  | 150.9  | 338.8  | 1387.0 | 3706.0 | 4256.5 | 4357.1 | 3912.9 |
| 60°   | 102.1  | 114.1  | 123.5  | 118.3  | 142.4  | 299.9  | 1334.0 | 3668.4 | 4243.6 | 4460.4 | 4196.9 |
| 62.5° | 99.7   | 115.0  | 112.6  | 114.7  | 138.5  | 274.9  | 1195.5 | 3367.0 | 4028.9 | 4353.8 | 4407.4 |
| 65°   | 97.0   | 106.9  | 106.3  | 111.7  | 137.6  | 265.0  | 991.0  | 2915.0 | 3613.9 | 4016.8 | 4457.1 |
| 67.5° | 93.4   | 98.8   | 101.8  | 107.8  | 140.6  | 256.3  | 799.8  | 2404.5 | 3037.2 | 3511.8 | 4198.1 |
| 70°   | 89.4   | 94.0   | 97.3   | 103.0  | 138.8  | 252.3  | 665.2  | 1896.2 | 2410.0 | 2878.2 | 3687.1 |
| 72.5° | 84.3   | 88.2   | 91.2   | 96.7   | 137.0  | 250.2  | 561.9  | 1527.0 | 1799.3 | 2138.0 | 2997.8 |
| 75°   | 78.3   | 81.9   | 84.0   | 89.4   | 131.3  | 229.2  | 441.8  | 1292.2 | 1346.4 | 1487.3 | 2387.7 |
| 77.5° | 71.4   | 74.1   | 75.9   | 81.9   | 116.2  | 190.6  | 319.5  | 996.8  | 1045.5 | 1079.9 | 1830.6 |
| 80°   | 63.2   | 65.9   | 66.9   | 72.6   | 96.4   | 149.1  | 208.4  | 736.3  | 782.0  | 789.9  | 1195.5 |
| 82.5° | 53.9   | 56.6   | 56.6   | 62.0   | 78.9   | 107.2  | 136.7  | 504.4  | 513.4  | 539.9  | 845.0  |
| 85°   | 43.4   | 45.5   | 45.5   | 48.2   | 61.1   | 80.1   | 94.0   | 253.3  | 250.5  | 286.1  | 732.1  |
| 87.5° | 31.0   | 32.5   | 34.0   | 34.6   | 43.7   | 53.0   | 56.6   | 77.1   | 50.9   | 58.4   | 470.1  |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 | 1850.8 |
| 2.5°  | 2126.0 | 2143.2 | 2125.7 | 2113.1 | 2058.5 | 2013.7 | 1953.8 | 1923.0 |
| 5°    | 2285.3 | 2329.0 | 2314.2 | 2261.2 | 2147.4 | 2019.4 | 1874.0 | 1808.3 |
| 7.5°  | 2266.0 | 2367.5 | 2369.9 | 2270.8 | 2103.1 | 1914.6 | 1717.7 | 1624.3 |
| 10°   | 2116.1 | 2245.8 | 2282.9 | 2186.8 | 2008.9 | 1798.1 | 1572.2 | 1465.6 |
| 12.5° | 1948.6 | 2075.7 | 2104.0 | 2070.9 | 1922.1 | 1710.4 | 1481.3 | 1376.8 |
| 15°   | 1811.6 | 1868.5 | 1902.3 | 1931.2 | 1847.8 | 1675.5 | 1476.2 | 1361.4 |
| 17.5° | 1728.2 | 1721.9 | 1731.5 | 1781.8 | 1796.0 | 1715.6 | 1554.4 | 1428.0 |
| 20°   | 1698.1 | 1601.4 | 1599.0 | 1668.3 | 1771.6 | 1811.0 | 1707.4 | 1555.7 |
| 22.5° | 1714.7 | 1558.1 | 1538.2 | 1620.4 | 1784.5 | 1948.6 | 1908.0 | 1734.8 |
| 25°   | 1771.9 | 1561.7 | 1545.7 | 1625.2 | 1831.5 | 2095.3 | 2124.5 | 1966.7 |
| 27.5° | 1861.9 | 1584.6 | 1563.5 | 1645.1 | 1893.8 | 2218.4 | 2337.7 | 2191.3 |
| 30°   | 1947.4 | 1624.3 | 1598.1 | 1684.2 | 1950.7 | 2267.2 | 2468.4 | 2366.6 |
| 32.5° | 2051.3 | 1698.7 | 1652.6 | 1756.2 | 2021.2 | 2344.9 | 2584.9 | 2511.8 |
| 35°   | 2153.1 | 1804.7 | 1747.5 | 1867.3 | 2099.8 | 2441.6 | 2718.0 | 2697.2 |
| 37.5° | 2264.8 | 1943.2 | 1895.9 | 2011.0 | 2207.3 | 2532.8 | 2887.9 | 2914.7 |
| 40°   | 2384.1 | 2126.9 | 2070.9 | 2220.6 | 2374.1 | 2647.3 | 3065.2 | 3129.7 |
| 42.5° | 2504.2 | 2330.8 | 2263.9 | 2415.7 | 2557.5 | 2760.2 | 3217.0 | 3312.5 |
| 45°   | 2641.8 | 2552.1 | 2520.5 | 2684.6 | 2733.7 | 2867.7 | 3329.0 | 3447.7 |
| 47.5° | 2802.0 | 2803.2 | 2854.1 | 2919.8 | 2911.4 | 2989.3 | 3441.6 | 3568.4 |
| 50°   | 2989.0 | 3116.7 | 3229.0 | 3272.7 | 3094.4 | 3120.0 | 3597.9 | 3730.1 |
| 52.5° | 3213.7 | 3491.6 | 3630.8 | 3602.2 | 3291.7 | 3279.6 | 3845.5 | 3953.0 |
| 55°   | 3494.6 | 3888.5 | 4026.8 | 4006.3 | 3518.4 | 3497.1 | 4153.8 | 4216.5 |
| 57.5° | 3819.9 | 4273.1 | 4400.2 | 4308.0 | 3790.7 | 3735.6 | 4408.9 | 4422.1 |
| 60°   | 4105.6 | 4577.8 | 4689.2 | 4587.2 | 4065.3 | 3989.4 | 4568.2 | 4504.0 |
| 62.5° | 4264.6 | 4681.1 | 4759.4 | 4649.5 | 4253.5 | 4259.8 | 4603.1 | 4459.8 |
| 65°   | 4193.6 | 4420.0 | 4445.3 | 4436.3 | 4205.0 | 4416.7 | 4477.5 | 4255.3 |
| 67.5° | 3804.5 | 3759.9 | 3802.4 | 3861.1 | 3789.5 | 4210.1 | 4129.7 | 3809.9 |
| 70°   | 3119.1 | 2874.3 | 2958.9 | 2998.4 | 3030.9 | 3622.9 | 3584.4 | 3103.2 |
| 72.5° | 2350.6 | 2013.7 | 2080.5 | 2072.4 | 2223.0 | 2905.9 | 2787.6 | 2281.7 |
| 75°   | 1665.6 | 1365.3 | 1373.8 | 1370.5 | 1551.1 | 2273.6 | 2018.5 | 1561.1 |
| 77.5° | 1165.4 | 989.2  | 993.7  | 1012.4 | 1042.8 | 1714.7 | 1442.1 | 1140.4 |
| 80°   | 801.3  | 750.7  | 775.7  | 777.2  | 722.7  | 1151.8 | 1065.4 | 915.1  |
| 82.5° | 596.8  | 521.9  | 515.8  | 524.6  | 566.4  | 933.2  | 818.8  | 634.8  |
| 85°   | 488.7  | 309.0  | 248.4  | 311.4  | 502.0  | 924.2  | 543.8  | 334.9  |
| 87.5° | 275.2  | 146.7  | 66.2   | 122.9  | 200.3  | 611.9  | 157.2  | 42.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)