

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: P324645

Luminaire Tested: **GAN-SA1C-830-U-SLR-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4363 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

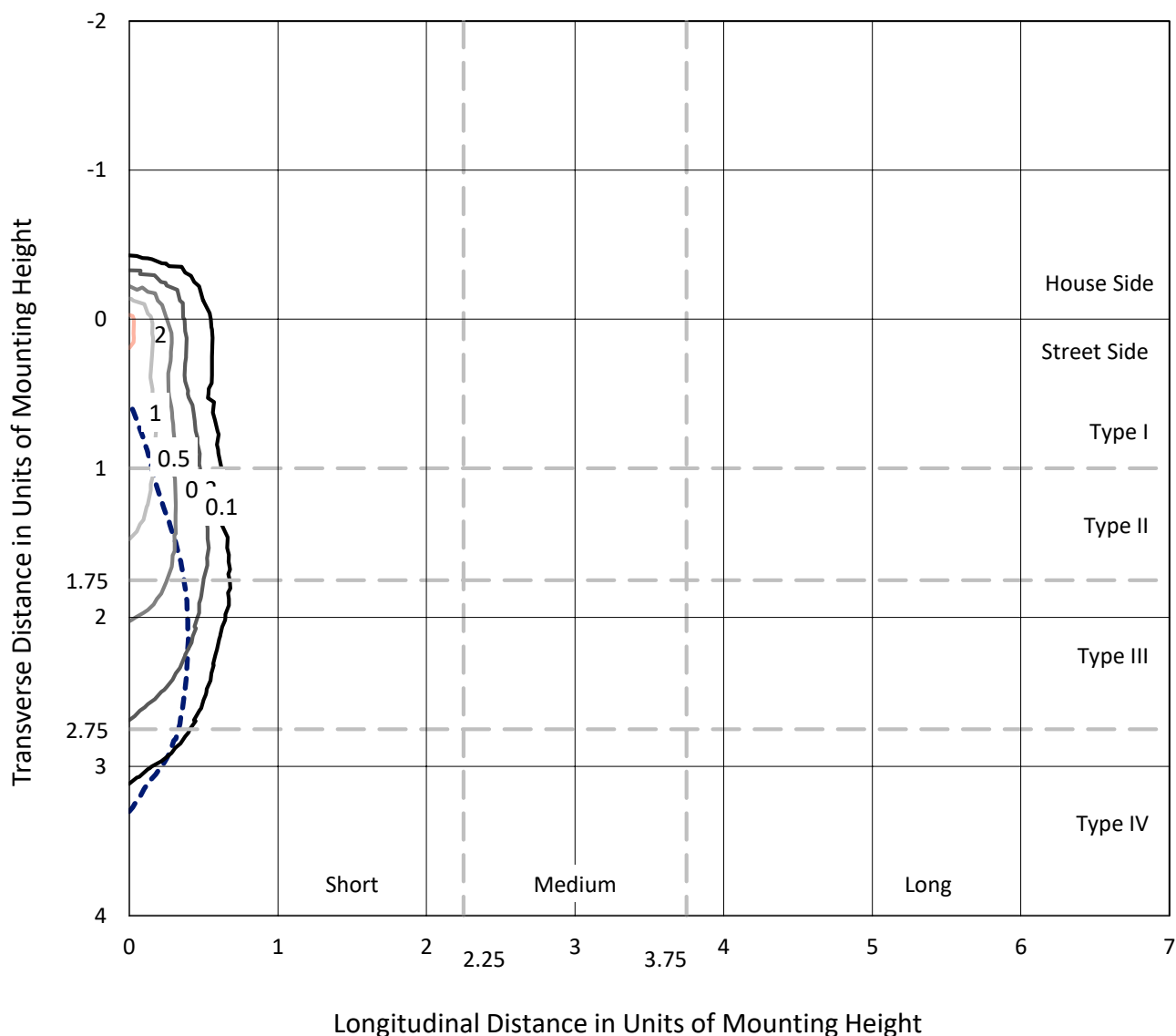
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

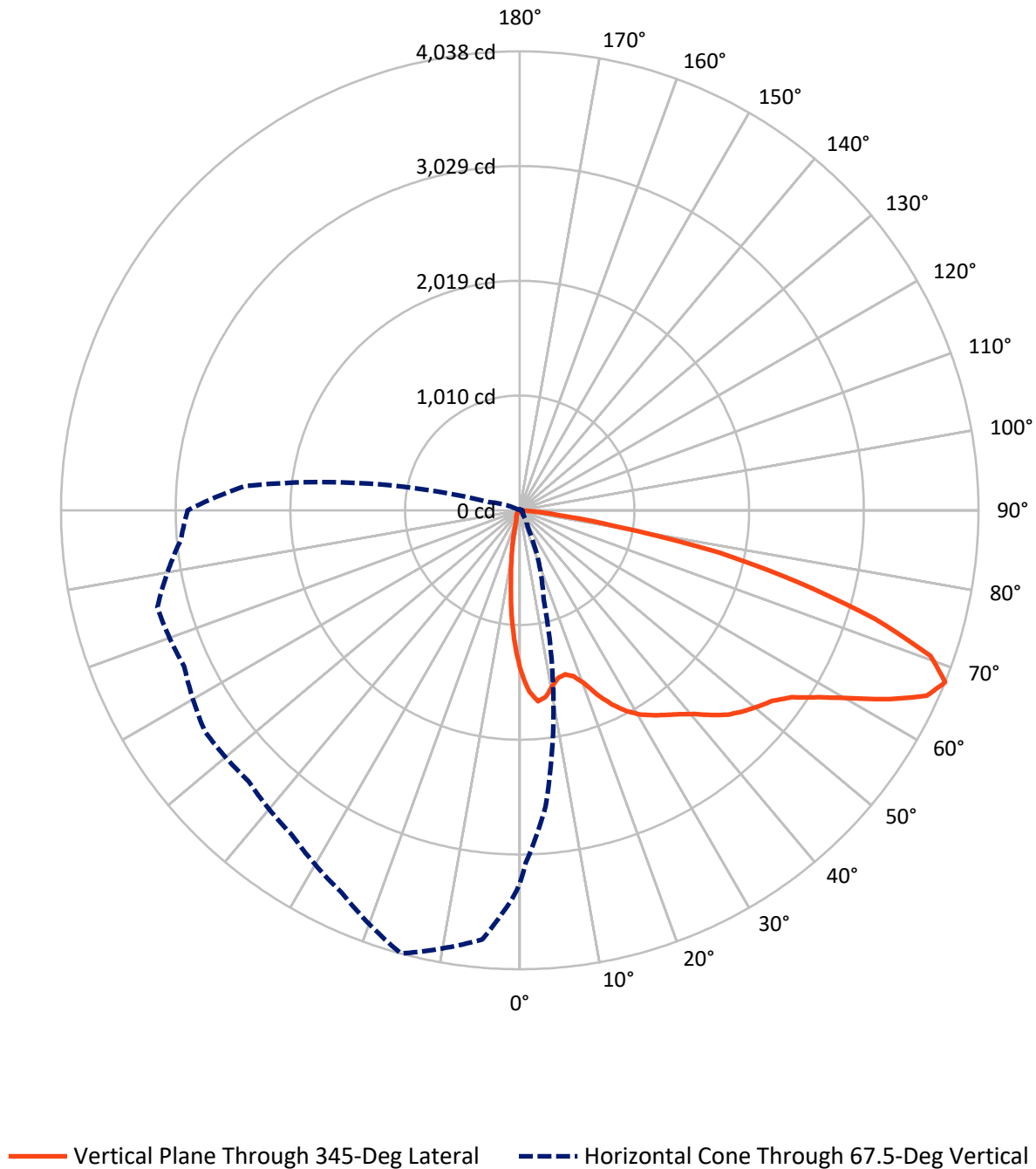
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - 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    | 528.1    | 0.0    | 528.1  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 3834.9   | 0.0    | 3834.9 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 4363.0   | 0.0    | 4363.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.1  | 2.5       |
| 10°-20°   | 217.1  | 5.0       |
| 20°-30°   | 308.3  | 7.1       |
| 30°-40°   | 455.4  | 10.4      |
| 40°-50°   | 656.8  | 15.1      |
| 50°-60°   | 922.0  | 21.1      |
| 60°-70°   | 1074.8 | 24.6      |
| 70°-80°   | 549.4  | 12.6      |
| 80°-90°   | 70.2   | 1.6       |
| 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°    | 4363.0 | 100.0     |
| 0°-180°   | 4363.0 | 100.0     |

**Coefficient of Utilization**



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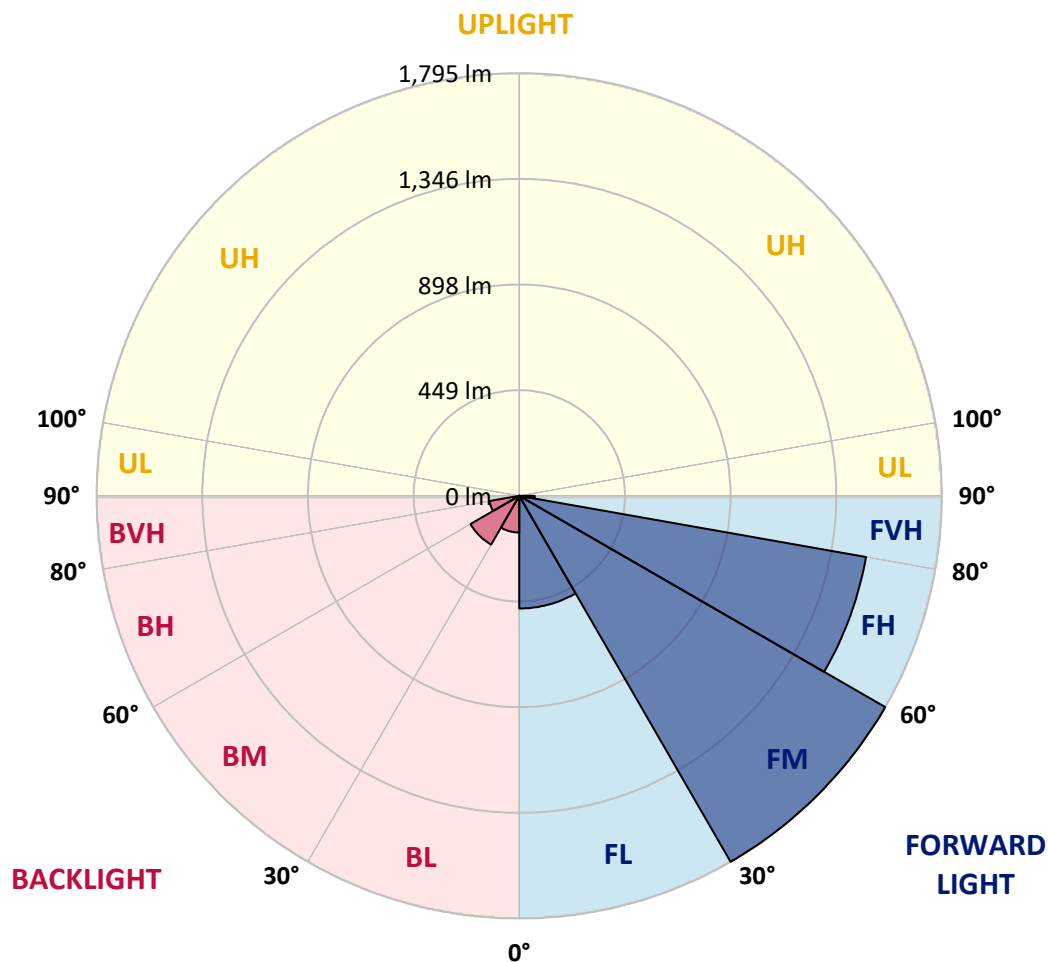
CATALOG NUMBER: GAN-SA1C-830-U-SLR-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 478.5  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 1795.0 | 41.1      |                         |      |         |
| FH   | (60°-80°)   | 1495.5 | 34.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 65.9   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 156.0  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 239.1  | 5.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 128.7  | 2.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.3    | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5°  | 1556.2 | 1544.2 | 1531.0 | 1487.8 | 1447.7 | 1401.8 | 1364.4 | 1338.4 | 1305.7 | 1263.3 | 1252.6 |
| 5°    | 1545.0 | 1532.2 | 1490.7 | 1394.6 | 1310.5 | 1228.6 | 1149.6 | 1103.3 | 1045.9 | 987.6  | 973.1  |
| 7.5°  | 1432.8 | 1419.4 | 1359.4 | 1227.8 | 1114.5 | 996.3  | 893.8  | 830.3  | 765.4  | 712.1  | 683.7  |
| 10°   | 1316.0 | 1301.4 | 1234.0 | 1074.2 | 934.7  | 827.8  | 752.6  | 692.0  | 630.6  | 573.6  | 528.1  |
| 12.5° | 1235.6 | 1216.4 | 1143.2 | 962.2  | 840.6  | 768.1  | 697.8  | 625.3  | 542.2  | 481.0  | 431.0  |
| 15°   | 1201.9 | 1180.0 | 1102.7 | 919.0  | 807.4  | 722.2  | 630.6  | 541.5  | 444.2  | 374.1  | 328.2  |
| 17.5° | 1228.0 | 1199.5 | 1116.6 | 916.1  | 765.6  | 649.6  | 533.9  | 429.3  | 323.7  | 252.8  | 220.1  |
| 20°   | 1316.4 | 1279.0 | 1173.8 | 915.2  | 715.0  | 563.5  | 416.7  | 298.5  | 213.3  | 171.6  | 154.4  |
| 22.5° | 1455.8 | 1406.4 | 1256.1 | 921.9  | 662.7  | 472.9  | 300.9  | 202.8  | 160.2  | 138.5  | 128.4  |
| 25°   | 1624.0 | 1566.8 | 1374.5 | 945.2  | 616.8  | 384.9  | 218.7  | 160.2  | 135.2  | 119.3  | 110.8  |
| 27.5° | 1784.0 | 1737.5 | 1524.2 | 978.9  | 581.2  | 313.8  | 177.6  | 135.8  | 115.5  | 105.0  | 98.2   |
| 30°   | 1943.8 | 1885.3 | 1677.7 | 1019.0 | 538.4  | 265.6  | 156.1  | 123.8  | 103.6  | 92.4   | 88.1   |
| 32.5° | 2059.9 | 2011.4 | 1798.0 | 1047.9 | 492.8  | 234.2  | 139.5  | 113.3  | 96.7   | 85.4   | 79.0   |
| 35°   | 2196.6 | 2141.6 | 1901.2 | 1054.4 | 463.4  | 214.3  | 125.5  | 101.9  | 83.9   | 73.8   | 67.0   |
| 37.5° | 2344.1 | 2275.7 | 2020.2 | 1040.3 | 440.5  | 204.6  | 114.9  | 96.7   | 78.3   | 68.0   | 60.8   |
| 40°   | 2507.4 | 2430.1 | 2134.5 | 1020.0 | 417.9  | 201.3  | 106.9  | 92.8   | 74.0   | 63.5   | 56.0   |
| 42.5° | 2679.4 | 2588.2 | 2233.6 | 998.8  | 403.7  | 190.0  | 106.0  | 88.9   | 70.7   | 59.3   | 51.9   |
| 45°   | 2823.9 | 2731.5 | 2335.2 | 991.7  | 393.5  | 177.6  | 109.5  | 86.2   | 68.4   | 56.0   | 48.8   |
| 47.5° | 2939.0 | 2851.6 | 2439.4 | 1007.4 | 387.8  | 166.2  | 99.8   | 89.7   | 67.2   | 53.1   | 46.1   |
| 50°   | 3076.5 | 2977.5 | 2586.2 | 1054.4 | 379.3  | 154.8  | 90.3   | 102.7  | 67.2   | 51.3   | 43.8   |
| 52.5° | 3248.8 | 3150.9 | 2749.9 | 1127.1 | 362.3  | 139.1  | 81.2   | 102.9  | 67.8   | 48.8   | 40.9   |
| 55°   | 3465.7 | 3394.6 | 2983.7 | 1206.9 | 335.3  | 116.0  | 70.3   | 88.5   | 65.3   | 44.2   | 38.2   |
| 57.5° | 3673.6 | 3615.5 | 3196.8 | 1261.5 | 299.1  | 90.5   | 61.2   | 71.3   | 59.7   | 38.9   | 34.1   |
| 59°   | 3730.4 | 3667.0 | 3274.9 | 1263.9 | 272.0  | 79.0   | 56.6   | 58.9   | 58.5   | 36.4   | 31.6   |
| 60°   | 3730.4 | 3663.1 | 3297.4 | 1250.7 | 252.4  | 72.6   | 53.7   | 52.5   | 61.0   | 34.7   | 30.2   |
| 62.5° | 3662.9 | 3568.2 | 3224.2 | 1161.2 | 205.9  | 61.8   | 46.9   | 43.4   | 54.8   | 31.2   | 26.7   |
| 65°   | 3522.3 | 3384.4 | 2975.0 | 999.4  | 183.5  | 56.6   | 40.5   | 35.6   | 38.0   | 27.5   | 23.4   |
| 67.5° | 3287.9 | 3101.1 | 2615.5 | 807.4  | 174.7  | 55.2   | 34.9   | 30.2   | 28.7   | 23.6   | 20.5   |
| 70°   | 2875.1 | 2667.8 | 2179.2 | 634.8  | 167.0  | 54.6   | 29.4   | 25.4   | 23.1   | 19.8   | 17.4   |
| 72.5° | 2092.6 | 1876.4 | 1547.1 | 496.3  | 162.5  | 55.8   | 23.6   | 21.3   | 19.0   | 15.5   | 13.4   |
| 75°   | 1197.0 | 1055.4 | 869.6  | 327.8  | 138.5  | 53.3   | 18.2   | 17.8   | 13.6   | 11.2   | 9.3    |
| 77.5° | 618.4  | 599.6  | 521.1  | 125.9  | 66.3   | 23.4   | 12.0   | 10.3   | 8.1    | 6.8    | 5.6    |
| 80°   | 266.8  | 264.0  | 228.4  | 36.4   | 17.6   | 13.0   | 6.8    | 4.3    | 3.7    | 2.9    | 2.3    |
| 82.5° | 92.2   | 92.2   | 81.2   | 12.2   | 7.9    | 6.4    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.6   | 20.9   | 14.7   | 0.0    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5°  | 1239.6 | 1214.5 | 1212.9 | 1197.2 | 1177.5 | 1168.7 | 1163.5 | 1172.6 | 1183.7 | 1185.0 | 1201.7 |
| 5°    | 962.2  | 935.9  | 946.9  | 919.0  | 924.5  | 919.0  | 909.9  | 911.5  | 916.5  | 901.0  | 920.2  |
| 7.5°  | 675.7  | 655.8  | 668.5  | 661.0  | 670.9  | 674.9  | 669.3  | 661.0  | 636.6  | 633.7  | 650.5  |
| 10°   | 509.3  | 486.8  | 473.3  | 459.3  | 462.4  | 468.8  | 466.7  | 460.7  | 445.2  | 446.0  | 462.2  |
| 12.5° | 409.3  | 384.0  | 357.4  | 322.9  | 314.4  | 319.1  | 314.4  | 310.9  | 296.0  | 297.2  | 311.5  |
| 15°   | 310.5  | 289.8  | 261.9  | 234.2  | 219.1  | 220.5  | 207.3  | 198.0  | 188.7  | 177.6  | 186.2  |
| 17.5° | 209.6  | 197.0  | 188.7  | 180.4  | 162.5  | 158.3  | 141.6  | 123.6  | 116.6  | 111.4  | 115.1  |
| 20°   | 148.4  | 141.6  | 138.3  | 137.9  | 127.5  | 122.4  | 106.0  | 94.9   | 91.4   | 90.3   | 92.6   |
| 22.5° | 124.0  | 119.1  | 114.3  | 111.6  | 106.4  | 100.5  | 88.1   | 82.5   | 80.0   | 78.8   | 80.4   |
| 25°   | 107.9  | 104.2  | 99.2   | 94.7   | 92.6   | 86.2   | 77.3   | 73.2   | 71.5   | 70.3   | 71.1   |
| 27.5° | 95.9   | 92.6   | 86.8   | 83.9   | 82.3   | 76.7   | 69.0   | 65.7   | 64.3   | 63.9   | 63.7   |
| 30°   | 86.4   | 83.3   | 77.9   | 74.6   | 71.7   | 66.8   | 62.2   | 58.9   | 57.5   | 57.0   | 56.6   |
| 32.5° | 76.9   | 74.4   | 70.9   | 67.6   | 64.5   | 59.9   | 56.0   | 53.3   | 51.1   | 50.6   | 50.4   |
| 35°   | 64.9   | 62.4   | 60.6   | 60.4   | 57.5   | 53.1   | 50.2   | 46.7   | 44.9   | 44.2   | 44.4   |
| 37.5° | 57.7   | 54.4   | 50.2   | 51.7   | 50.8   | 47.7   | 43.8   | 40.3   | 38.4   | 38.0   | 38.0   |
| 40°   | 53.1   | 49.6   | 44.9   | 42.4   | 44.9   | 44.2   | 38.0   | 34.5   | 32.7   | 32.5   | 32.0   |
| 42.5° | 48.8   | 45.3   | 39.9   | 35.8   | 37.0   | 38.9   | 32.9   | 29.6   | 27.7   | 27.3   | 26.7   |
| 45°   | 45.7   | 42.0   | 36.0   | 31.2   | 28.7   | 32.7   | 28.1   | 24.0   | 22.9   | 22.1   | 21.7   |
| 47.5° | 42.8   | 39.3   | 32.5   | 27.1   | 22.9   | 23.6   | 22.5   | 19.6   | 18.4   | 17.6   | 17.4   |
| 50°   | 40.3   | 36.6   | 29.4   | 23.1   | 19.0   | 17.4   | 18.2   | 15.5   | 14.5   | 13.6   | 13.2   |
| 52.5° | 37.4   | 33.9   | 26.0   | 20.0   | 15.9   | 13.6   | 13.8   | 12.2   | 11.2   | 10.5   | 10.3   |
| 55°   | 35.1   | 31.6   | 23.4   | 17.6   | 14.1   | 11.2   | 9.9    | 9.5    | 8.9    | 8.5    | 8.3    |
| 57.5° | 32.0   | 28.7   | 20.7   | 14.9   | 12.0   | 9.1    | 7.6    | 7.6    | 7.4    | 7.0    | 6.8    |
| 59°   | 30.2   | 27.3   | 19.0   | 13.4   | 11.0   | 7.9    | 6.8    | 7.0    | 6.8    | 6.4    | 6.2    |
| 60°   | 28.7   | 26.0   | 17.8   | 12.4   | 10.3   | 7.2    | 6.2    | 6.6    | 6.4    | 6.0    | 5.8    |
| 62.5° | 25.4   | 23.6   | 15.3   | 10.3   | 9.1    | 5.8    | 5.2    | 5.6    | 5.6    | 5.4    | 5.2    |
| 65°   | 22.3   | 20.3   | 13.0   | 8.7    | 8.5    | 5.0    | 4.1    | 5.0    | 5.2    | 4.8    | 4.3    |
| 67.5° | 19.4   | 17.4   | 11.4   | 7.0    | 7.9    | 3.9    | 3.1    | 4.1    | 5.6    | 4.3    | 3.9    |
| 70°   | 16.5   | 14.5   | 8.9    | 5.6    | 8.3    | 2.7    | 2.5    | 3.7    | 6.6    | 4.8    | 3.7    |
| 72.5° | 12.8   | 11.2   | 6.2    | 4.1    | 8.9    | 1.9    | 1.9    | 3.1    | 7.4    | 5.2    | 3.5    |
| 75°   | 8.9    | 7.2    | 3.7    | 2.5    | 7.2    | 1.2    | 1.2    | 2.9    | 7.0    | 4.8    | 3.3    |
| 77.5° | 5.2    | 3.9    | 1.2    | 0.2    | 3.7    | 0.0    | 0.2    | 2.1    | 5.0    | 2.9    | 1.4    |
| 80°   | 1.9    | 0.8    | 0.0    | 0.0    | 2.3    | 0.0    | 0.0    | 0.0    | 0.4    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5°  | 1206.1 | 1234.0 | 1259.0 | 1296.8 | 1341.7 | 1393.3 | 1437.8 | 1485.5 | 1530.4 | 1549.0 | 1561.8 |
| 5°    | 924.1  | 958.7  | 999.0  | 1054.6 | 1128.6 | 1219.7 | 1305.1 | 1401.6 | 1505.4 | 1557.2 | 1606.0 |
| 7.5°  | 653.4  | 688.5  | 738.5  | 797.6  | 887.1  | 995.7  | 1107.3 | 1240.6 | 1381.1 | 1463.2 | 1544.0 |
| 10°   | 469.8  | 513.0  | 559.7  | 640.5  | 731.5  | 834.4  | 949.4  | 1098.2 | 1254.8 | 1345.8 | 1443.1 |
| 12.5° | 319.8  | 369.0  | 439.6  | 530.2  | 637.0  | 737.9  | 837.7  | 979.7  | 1161.6 | 1251.7 | 1356.1 |
| 15°   | 191.8  | 219.1  | 293.9  | 398.7  | 529.8  | 655.4  | 764.8  | 907.2  | 1101.1 | 1211.4 | 1320.0 |
| 17.5° | 118.2  | 130.8  | 171.6  | 257.5  | 395.2  | 554.2  | 704.0  | 882.6  | 1109.7 | 1244.1 | 1360.3 |
| 20°   | 94.3   | 99.2   | 112.2  | 152.1  | 261.9  | 442.5  | 635.6  | 877.6  | 1180.6 | 1346.0 | 1470.6 |
| 22.5° | 81.9   | 86.6   | 95.3   | 110.6  | 164.7  | 331.3  | 570.7  | 882.2  | 1282.3 | 1498.8 | 1644.3 |
| 25°   | 72.1   | 76.3   | 84.5   | 97.1   | 120.7  | 233.4  | 501.2  | 902.4  | 1414.8 | 1688.3 | 1842.9 |
| 27.5° | 64.5   | 68.0   | 75.7   | 87.2   | 103.6  | 162.9  | 422.5  | 927.0  | 1571.9 | 1882.2 | 2034.7 |
| 30°   | 57.5   | 60.6   | 67.4   | 78.1   | 89.9   | 125.3  | 336.1  | 943.8  | 1729.2 | 2034.7 | 2171.8 |
| 32.5° | 51.5   | 53.7   | 59.9   | 69.0   | 78.1   | 99.8   | 255.5  | 941.1  | 1846.0 | 2161.6 | 2270.3 |
| 35°   | 45.3   | 47.5   | 52.9   | 60.8   | 68.0   | 82.5   | 200.9  | 890.9  | 1947.7 | 2293.3 | 2383.2 |
| 37.5° | 38.4   | 41.3   | 46.5   | 53.5   | 58.5   | 72.6   | 162.5  | 830.3  | 2050.8 | 2443.8 | 2509.1 |
| 40°   | 32.7   | 35.6   | 40.1   | 47.7   | 50.8   | 68.8   | 124.8  | 756.5  | 2166.8 | 2612.0 | 2647.2 |
| 42.5° | 27.1   | 29.8   | 34.5   | 41.1   | 48.0   | 59.3   | 92.4   | 672.2  | 2278.2 | 2755.9 | 2773.0 |
| 45°   | 21.9   | 24.6   | 29.6   | 36.2   | 51.3   | 49.2   | 71.5   | 581.8  | 2368.1 | 2875.5 | 2881.1 |
| 47.5° | 17.4   | 19.8   | 25.0   | 34.1   | 47.7   | 39.3   | 51.1   | 511.0  | 2443.6 | 2969.0 | 2954.3 |
| 50°   | 13.4   | 15.5   | 20.9   | 39.1   | 41.8   | 32.5   | 38.7   | 487.4  | 2511.1 | 3026.9 | 2988.8 |
| 52.5° | 10.5   | 12.4   | 17.2   | 36.6   | 32.5   | 26.9   | 32.5   | 509.5  | 2603.7 | 3074.8 | 3008.2 |
| 55°   | 8.5    | 10.3   | 13.4   | 20.9   | 22.1   | 22.7   | 27.7   | 530.2  | 2763.5 | 3187.2 | 3123.0 |
| 57.5° | 7.0    | 8.9    | 11.0   | 14.7   | 16.7   | 19.2   | 24.6   | 532.4  | 2951.8 | 3374.1 | 3313.3 |
| 59°   | 6.4    | 8.1    | 9.9    | 13.0   | 14.7   | 17.6   | 23.1   | 520.0  | 3018.2 | 3442.1 | 3411.7 |
| 60°   | 6.0    | 7.6    | 9.3    | 12.0   | 13.6   | 16.5   | 22.3   | 508.3  | 3021.1 | 3439.6 | 3453.7 |
| 62.5° | 5.2    | 6.8    | 8.3    | 10.1   | 11.6   | 14.1   | 20.0   | 464.7  | 2898.7 | 3327.0 | 3428.5 |
| 65°   | 4.5    | 6.0    | 7.4    | 8.7    | 9.9    | 12.6   | 18.2   | 385.1  | 2689.7 | 3145.3 | 3255.9 |
| 67.5° | 4.1    | 5.2    | 6.8    | 7.6    | 8.9    | 11.2   | 16.1   | 274.5  | 2428.7 | 2923.1 | 2994.8 |
| 70°   | 3.7    | 5.0    | 6.2    | 7.0    | 8.1    | 9.7    | 13.8   | 157.7  | 2050.8 | 2597.8 | 2648.8 |
| 72.5° | 3.5    | 4.8    | 5.6    | 6.6    | 7.2    | 8.7    | 12.6   | 74.2   | 1501.6 | 2081.0 | 2214.3 |
| 75°   | 3.1    | 4.3    | 5.2    | 6.2    | 6.8    | 7.9    | 10.7   | 35.6   | 998.8  | 1506.0 | 1657.5 |
| 77.5° | 1.9    | 3.5    | 4.8    | 5.6    | 6.0    | 6.8    | 8.9    | 20.5   | 637.4  | 1042.4 | 1227.8 |
| 80°   | 0.0    | 1.2    | 3.5    | 4.8    | 5.2    | 5.8    | 6.8    | 16.1   | 341.0  | 595.5  | 714.8  |
| 82.5° | 0.0    | 0.0    | 2.5    | 3.7    | 3.5    | 3.9    | 5.2    | 10.1   | 153.8  | 389.2  | 438.6  |
| 85°   | 0.0    | 0.0    | 0.8    | 2.9    | 2.5    | 1.9    | 3.5    | 3.5    | 33.7   | 197.0  | 245.8  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.2    | 1.2    | 0.8    | 1.4    | 0.4    | 0.2    | 14.7   | 59.5   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 | 1421.2 |
| 2.5°  | 1606.6 | 1621.9 | 1647.8 | 1660.0 | 1654.0 | 1628.6 | 1598.2 | 1567.2 | 1549.0 | 1556.2 |
| 5°    | 1705.4 | 1784.2 | 1829.7 | 1844.8 | 1819.5 | 1762.5 | 1687.9 | 1589.5 | 1554.6 | 1545.0 |
| 7.5°  | 1705.4 | 1853.6 | 1947.5 | 1964.0 | 1907.8 | 1796.0 | 1656.0 | 1502.5 | 1451.4 | 1432.8 |
| 10°   | 1645.5 | 1847.2 | 1978.1 | 2004.3 | 1925.8 | 1758.6 | 1571.1 | 1395.8 | 1335.3 | 1316.0 |
| 12.5° | 1577.9 | 1795.2 | 1933.0 | 1969.2 | 1904.7 | 1721.4 | 1512.2 | 1323.7 | 1252.4 | 1235.6 |
| 15°   | 1536.4 | 1731.1 | 1845.2 | 1871.4 | 1844.1 | 1699.7 | 1498.1 | 1302.0 | 1218.1 | 1201.9 |
| 17.5° | 1551.3 | 1681.5 | 1722.6 | 1737.9 | 1756.3 | 1692.0 | 1536.4 | 1349.5 | 1243.3 | 1228.0 |
| 20°   | 1607.3 | 1629.2 | 1607.9 | 1627.1 | 1676.7 | 1699.5 | 1627.5 | 1464.4 | 1336.9 | 1316.4 |
| 22.5° | 1702.3 | 1602.1 | 1542.4 | 1550.0 | 1610.4 | 1724.0 | 1766.8 | 1628.6 | 1481.4 | 1455.8 |
| 25°   | 1813.1 | 1624.0 | 1506.0 | 1499.2 | 1561.2 | 1756.5 | 1894.2 | 1807.1 | 1652.3 | 1624.0 |
| 27.5° | 1952.4 | 1673.2 | 1498.5 | 1491.7 | 1544.0 | 1786.9 | 2000.0 | 1983.7 | 1832.4 | 1784.0 |
| 30°   | 2059.9 | 1721.6 | 1520.7 | 1505.0 | 1561.2 | 1808.0 | 2084.9 | 2133.5 | 1975.8 | 1943.8 |
| 32.5° | 2137.0 | 1778.6 | 1556.6 | 1533.9 | 1609.5 | 1844.3 | 2150.5 | 2270.8 | 2108.5 | 2059.9 |
| 35°   | 2195.7 | 1840.6 | 1614.7 | 1577.3 | 1676.1 | 1899.5 | 2211.8 | 2416.9 | 2249.7 | 2196.6 |
| 37.5° | 2250.7 | 1927.6 | 1705.4 | 1660.8 | 1780.5 | 1988.4 | 2276.8 | 2582.7 | 2407.6 | 2344.1 |
| 40°   | 2327.4 | 2026.2 | 1845.4 | 1805.7 | 1956.0 | 2109.5 | 2357.8 | 2755.5 | 2587.2 | 2507.4 |
| 42.5° | 2404.1 | 2132.1 | 1988.6 | 1999.4 | 2174.9 | 2256.7 | 2462.4 | 2938.2 | 2764.6 | 2679.4 |
| 45°   | 2474.1 | 2241.2 | 2192.6 | 2242.2 | 2378.0 | 2418.1 | 2566.3 | 3043.8 | 2906.1 | 2823.9 |
| 47.5° | 2536.6 | 2377.6 | 2395.4 | 2527.5 | 2609.1 | 2564.3 | 2644.1 | 3135.0 | 3011.6 | 2939.0 |
| 50°   | 2609.1 | 2554.1 | 2662.7 | 2849.5 | 2875.1 | 2696.6 | 2714.7 | 3242.8 | 3134.7 | 3076.5 |
| 52.5° | 2688.5 | 2740.2 | 2958.6 | 3123.4 | 3115.1 | 2840.2 | 2785.8 | 3363.8 | 3303.6 | 3248.8 |
| 55°   | 2778.6 | 2890.4 | 3219.3 | 3379.7 | 3372.7 | 3000.6 | 2903.7 | 3513.2 | 3515.3 | 3465.7 |
| 57.5° | 2912.3 | 3019.8 | 3396.2 | 3587.0 | 3598.8 | 3185.8 | 3103.3 | 3680.6 | 3706.7 | 3673.6 |
| 59°   | 3008.2 | 3103.7 | 3466.3 | 3673.6 | 3721.6 | 3329.0 | 3249.3 | 3777.8 | 3760.6 | 3730.4 |
| 60°   | 3079.4 | 3157.1 | 3501.0 | 3718.9 | 3792.9 | 3426.2 | 3356.9 | 3834.8 | 3767.0 | 3730.4 |
| 62.5° | 3255.2 | 3273.2 | 3563.6 | 3770.1 | 3874.9 | 3642.0 | 3660.0 | 3932.0 | 3722.6 | 3662.9 |
| 65°   | 3337.3 | 3346.6 | 3562.8 | 3678.4 | 3795.6 | 3810.0 | 3934.9 | 3934.9 | 3614.1 | 3522.3 |
| 67.5° | 3303.0 | 3258.1 | 3386.1 | 3374.1 | 3491.1 | 3710.2 | 4038.2 | 3790.6 | 3406.6 | 3287.9 |
| 70°   | 3024.0 | 2851.4 | 2794.5 | 2799.7 | 2889.2 | 3227.1 | 3833.6 | 3366.0 | 3013.8 | 2875.1 |
| 72.5° | 2516.1 | 2102.1 | 1961.7 | 2121.9 | 2145.3 | 2480.1 | 3267.0 | 2534.9 | 2222.6 | 2092.6 |
| 75°   | 2023.8 | 1481.8 | 1253.6 | 1422.7 | 1462.4 | 1815.0 | 2527.3 | 1578.7 | 1298.3 | 1197.0 |
| 77.5° | 1453.9 | 1063.7 | 899.5  | 887.8  | 939.0  | 1151.1 | 1793.3 | 794.5  | 662.7  | 618.4  |
| 80°   | 826.0  | 700.1  | 753.8  | 711.2  | 737.1  | 719.7  | 852.0  | 348.5  | 285.4  | 266.8  |
| 82.5° | 498.5  | 413.8  | 448.1  | 373.1  | 472.1  | 411.1  | 328.2  | 111.6  | 96.9   | 92.2   |
| 85°   | 324.3  | 226.1  | 117.8  | 79.0   | 162.7  | 262.7  | 73.4   | 30.4   | 23.4   | 18.6   |
| 87.5° | 111.8  | 57.7   | 5.8    | 2.5    | 17.4   | 49.0   | 2.7    | 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    |

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