

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: P192072

Luminaire Tested: **GAN-AF-04-LED-U-SLL-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192072  
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-04-LED-U-SLL-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13903 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 129  
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

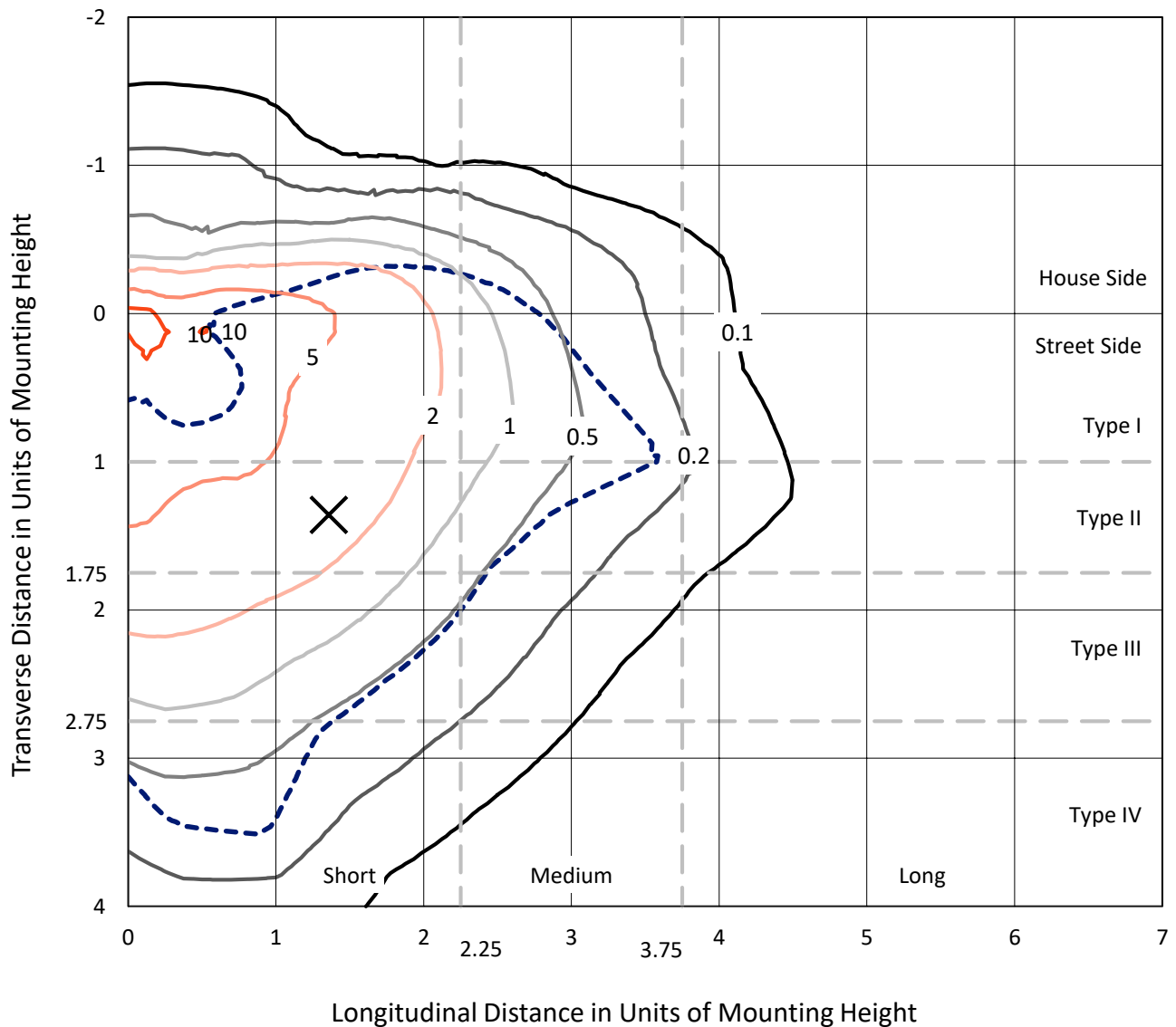


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### Iso-Footcandle Lines of Horizontal Illumination

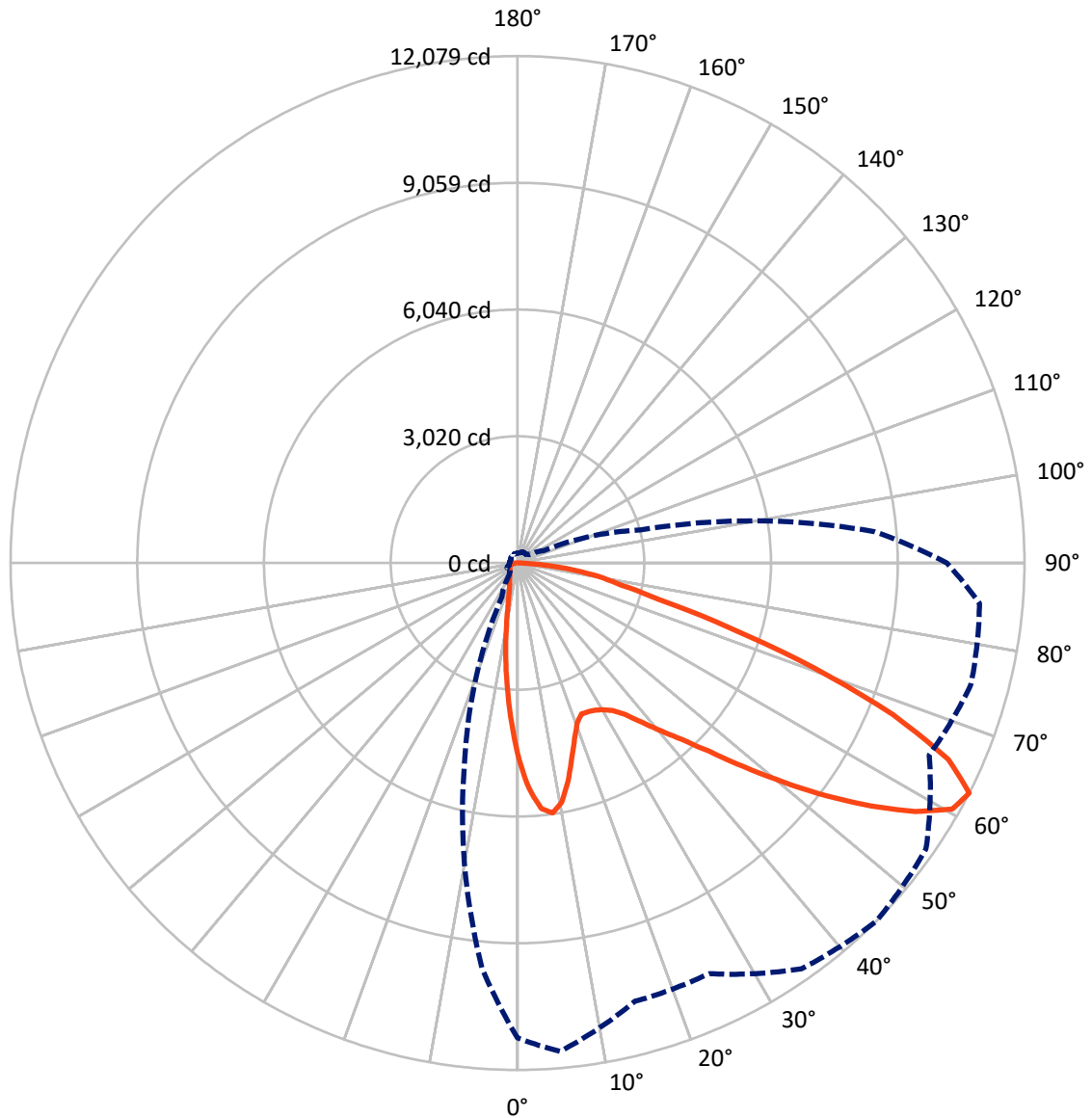
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2300.8   | 0.0    | 2300.8  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 11602.2  | 0.0    | 11602.2 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 13903.0  | 0.0    | 13903.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 341.9   | 2.5       |
| 10°-20°   | 627.0   | 4.5       |
| 20°-30°   | 914.2   | 6.6       |
| 30°-40°   | 1408.0  | 10.1      |
| 40°-50°   | 2072.2  | 14.9      |
| 50°-60°   | 3039.4  | 21.9      |
| 60°-70°   | 3397.6  | 24.4      |
| 70°-80°   | 1663.4  | 12.0      |
| 80°-90°   | 439.2   | 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°    | 13903.0 | 100.0     |
| 0°-180°   | 13903.0 | 100.0     |

**Coefficient of Utilization**



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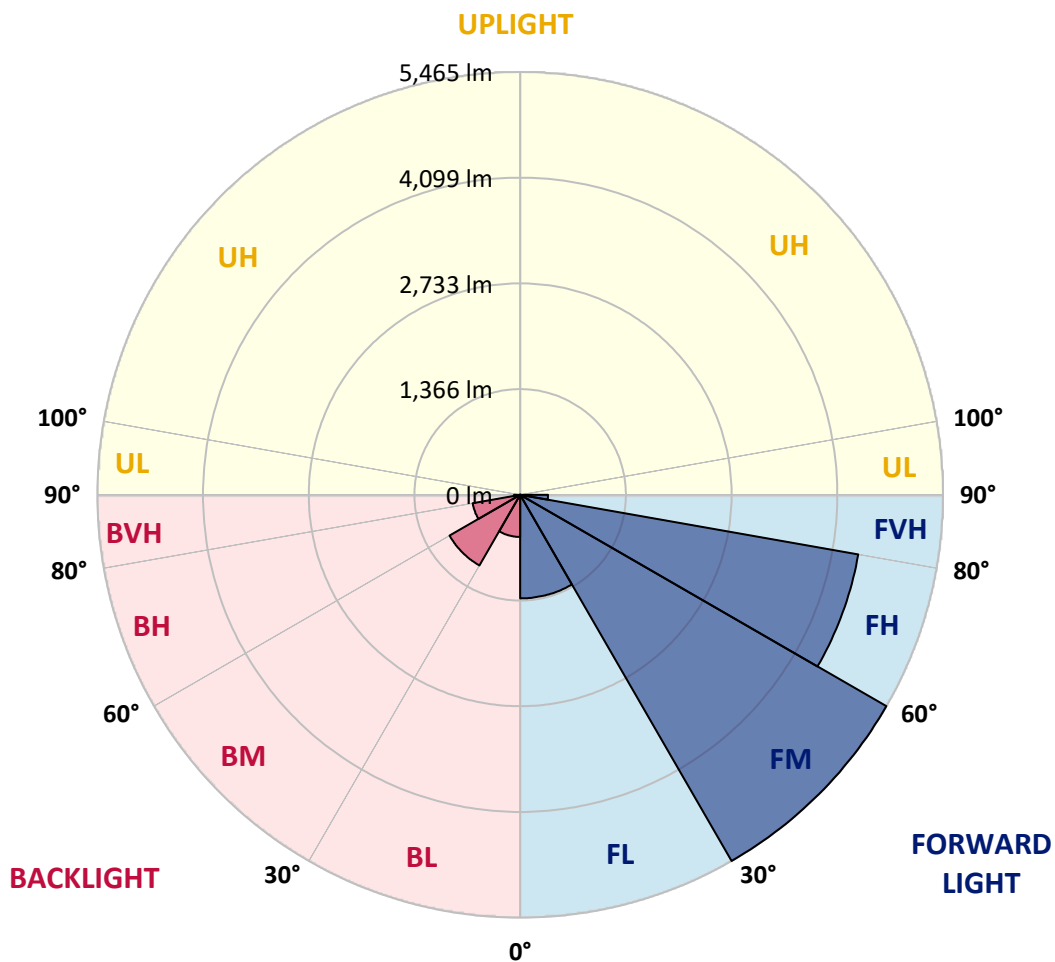
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1338.8 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 5465.4 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 4437.4 | 31.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 360.7  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 544.3  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1054.2 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 623.7  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 78.5   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  | 4697.2  |
| 2.5°  | 4880.6  | 4958.6  | 5110.7  | 5224.5  | 5362.9  | 5395.0  | 5439.3  | 5395.7  | 5318.5  | 5216.1  | 5182.5  |
| 5°    | 4589.4  | 4756.0  | 5125.2  | 5450.0  | 5738.9  | 5873.4  | 5910.8  | 5800.0  | 5576.1  | 5281.8  | 5102.2  |
| 7.5°  | 4122.5  | 4359.4  | 4859.2  | 5337.6  | 5763.3  | 6014.8  | 6008.7  | 5751.1  | 5339.2  | 4860.0  | 4571.8  |
| 10°   | 3719.7  | 3990.2  | 4563.4  | 5098.4  | 5550.1  | 5793.9  | 5699.9  | 5370.5  | 4879.1  | 4327.3  | 4014.7  |
| 12.5° | 3494.2  | 3759.4  | 4341.0  | 4878.3  | 5255.9  | 5339.9  | 5268.1  | 4945.6  | 4482.4  | 3924.5  | 3650.9  |
| 15°   | 3455.2  | 3746.4  | 4252.4  | 4689.5  | 4901.2  | 4827.9  | 4742.3  | 4597.8  | 4270.7  | 3794.6  | 3509.5  |
| 17.5° | 3624.2  | 3945.1  | 4354.0  | 4558.1  | 4522.2  | 4394.5  | 4370.1  | 4386.1  | 4307.4  | 3939.0  | 3610.4  |
| 20°   | 3948.2  | 4333.4  | 4596.3  | 4496.2  | 4234.0  | 4058.3  | 4064.4  | 4309.7  | 4542.8  | 4305.1  | 3929.9  |
| 22.5° | 4402.9  | 4842.4  | 4945.6  | 4529.0  | 4112.5  | 3903.9  | 3954.3  | 4351.7  | 4918.1  | 4840.1  | 4360.9  |
| 25°   | 4991.4  | 5391.9  | 5317.8  | 4648.3  | 4124.7  | 3923.0  | 3963.5  | 4496.9  | 5361.3  | 5375.1  | 4894.4  |
| 27.5° | 5561.6  | 5933.0  | 5630.4  | 4806.5  | 4175.2  | 3968.1  | 4021.6  | 4725.5  | 5784.7  | 5955.9  | 5504.2  |
| 30°   | 6006.4  | 6264.7  | 5754.2  | 4950.9  | 4274.5  | 4056.0  | 4122.5  | 4942.5  | 5977.3  | 6348.0  | 5973.5  |
| 32.5° | 6374.7  | 6560.5  | 5951.3  | 5129.8  | 4457.2  | 4194.3  | 4311.2  | 5206.2  | 6254.8  | 6721.0  | 6432.8  |
| 35°   | 6845.5  | 6898.3  | 6196.7  | 5329.2  | 4739.2  | 4435.0  | 4580.2  | 5464.5  | 6519.2  | 7097.7  | 6885.3  |
| 37.5° | 7397.3  | 7329.3  | 6428.2  | 5602.1  | 5103.8  | 4811.8  | 4931.8  | 5748.0  | 6737.0  | 7525.0  | 7347.7  |
| 40°   | 7943.0  | 7779.5  | 6718.7  | 6025.5  | 5635.7  | 5255.9  | 5398.0  | 6050.7  | 6940.3  | 7953.0  | 7799.3  |
| 42.5° | 8406.9  | 8164.7  | 7005.3  | 6490.9  | 6130.9  | 5745.8  | 5915.4  | 6355.6  | 7134.4  | 8318.3  | 8191.4  |
| 45°   | 8750.1  | 8449.0  | 7278.1  | 6938.0  | 6813.4  | 6396.9  | 6477.2  | 6704.9  | 7344.6  | 8623.2  | 8513.9  |
| 47.5° | 9056.6  | 8734.8  | 7586.9  | 7388.9  | 7410.3  | 7243.7  | 7114.6  | 7111.5  | 7592.2  | 8872.4  | 8818.9  |
| 50°   | 9467.0  | 9131.5  | 7918.6  | 7853.6  | 8306.0  | 8195.2  | 7910.2  | 7586.1  | 7905.6  | 9155.1  | 9149.0  |
| 52.5° | 10032.5 | 9759.7  | 8323.6  | 8354.2  | 9142.2  | 9214.8  | 8861.7  | 8156.3  | 8396.2  | 9674.1  | 9637.4  |
| 55°   | 10701.3 | 10542.3 | 8875.4  | 8929.7  | 10167.8 | 10219.8 | 9869.0  | 8869.3  | 9117.7  | 10425.4 | 10323.7 |
| 57.5° | 11223.3 | 11189.6 | 9480.7  | 9620.6  | 10933.6 | 11167.5 | 10844.9 | 9694.7  | 9930.9  | 11058.2 | 10802.9 |
| 60°   | 11431.1 | 11593.9 | 10125.0 | 10317.6 | 11642.1 | 11901.2 | 11618.4 | 10420.0 | 10651.6 | 11320.3 | 10770.0 |
| 62.5° | 11318.8 | 11682.6 | 10811.3 | 10795.3 | 11800.3 | 12079.2 | 11880.5 | 10823.5 | 11185.8 | 11049.8 | 10225.1 |
| 65°   | 10799.9 | 11363.9 | 11209.5 | 10672.2 | 11259.2 | 11282.1 | 11217.9 | 10643.2 | 11311.9 | 10194.6 | 9172.0  |
| 67.5° | 9669.5  | 10481.2 | 10685.2 | 9617.5  | 9799.4  | 9650.4  | 9542.6  | 9655.7  | 10654.6 | 8912.9  | 7708.4  |
| 70°   | 7875.8  | 9097.1  | 9194.9  | 7692.3  | 7609.8  | 7509.7  | 7294.9  | 7916.3  | 9357.7  | 7304.9  | 6116.4  |
| 72.5° | 5790.8  | 7074.8  | 7375.2  | 5641.8  | 5259.7  | 5280.3  | 5110.7  | 5965.9  | 7608.3  | 5426.3  | 4566.5  |
| 75°   | 3962.0  | 5122.9  | 5770.2  | 3936.7  | 3478.2  | 3486.6  | 3465.2  | 4227.2  | 6059.9  | 3774.7  | 3417.0  |
| 77.5° | 2894.3  | 3660.1  | 4351.7  | 2646.7  | 2569.5  | 2522.1  | 2510.6  | 2957.7  | 4646.0  | 2740.7  | 2653.5  |
| 80°   | 2322.6  | 2704.0  | 2923.3  | 1834.2  | 1972.6  | 1968.8  | 1905.3  | 2033.7  | 3034.1  | 2004.7  | 1984.8  |
| 82.5° | 1611.1  | 2078.0  | 2368.5  | 1437.6  | 1331.4  | 1309.2  | 1324.5  | 1514.8  | 2144.5  | 1370.3  | 1303.1  |
| 85°   | 849.9   | 1380.3  | 2345.5  | 1274.0  | 790.3   | 630.5   | 784.1   | 1240.4  | 1857.9  | 726.1   | 635.9   |
| 87.5° | 108.5   | 398.9   | 1553.0  | 508.2   | 311.8   | 168.1   | 372.2   | 698.5   | 1193.0  | 148.3   | 129.2   |
| 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°    | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 |
| 2.5°  | 5096.1 | 4994.5 | 4861.5 | 4738.5 | 4610.8 | 4484.0 | 4318.1 | 4214.2 | 4142.3 | 4128.6 | 4098.0 |
| 5°    | 4972.3 | 4634.5 | 4379.2 | 4158.4 | 3958.1 | 3675.4 | 3518.7 | 3388.8 | 3319.2 | 3312.3 | 3295.5 |
| 7.5°  | 4401.4 | 3935.2 | 3590.5 | 3277.9 | 2994.4 | 2765.9 | 2513.7 | 2396.0 | 2347.8 | 2359.3 | 2370.8 |
| 10°   | 3807.6 | 3286.3 | 2890.5 | 2571.0 | 2321.1 | 2128.5 | 1926.0 | 1789.1 | 1694.4 | 1675.3 | 1671.5 |
| 12.5° | 3373.5 | 2801.8 | 2417.4 | 2191.9 | 1998.6 | 1817.4 | 1602.7 | 1441.4 | 1318.4 | 1276.3 | 1248.0 |
| 15°   | 3190.0 | 2564.9 | 2162.1 | 1919.1 | 1705.8 | 1475.8 | 1276.3 | 1107.4 | 994.3  | 957.6  | 937.0  |
| 17.5° | 3229.0 | 2499.2 | 1986.3 | 1675.3 | 1402.4 | 1162.4 | 911.0  | 766.6  | 698.5  | 681.0  | 681.0  |
| 20°   | 3433.8 | 2486.9 | 1841.1 | 1450.6 | 1110.5 | 832.3  | 625.9  | 543.4  | 521.2  | 518.9  | 525.1  |
| 22.5° | 3721.2 | 2529.7 | 1732.6 | 1255.7 | 862.9  | 607.6  | 487.6  | 457.0  | 447.1  | 449.4  | 456.3  |
| 25°   | 4149.2 | 2674.2 | 1653.9 | 1082.2 | 677.1  | 497.5  | 434.9  | 416.5  | 411.9  | 418.1  | 426.5  |
| 27.5° | 4656.7 | 2818.6 | 1605.0 | 951.5  | 571.7  | 454.7  | 413.5  | 394.4  | 397.4  | 405.1  | 412.7  |
| 30°   | 5102.2 | 2937.1 | 1527.8 | 858.3  | 538.8  | 457.0  | 413.5  | 387.5  | 384.4  | 386.0  | 388.2  |
| 32.5° | 5502.0 | 3017.3 | 1437.6 | 769.6  | 464.7  | 405.8  | 386.0  | 382.1  | 365.3  | 359.2  | 360.0  |
| 35°   | 5846.6 | 3017.3 | 1383.3 | 717.6  | 416.5  | 360.0  | 327.9  | 308.8  | 300.4  | 301.1  | 309.5  |
| 37.5° | 6179.1 | 2956.9 | 1356.6 | 688.6  | 390.5  | 342.4  | 314.1  | 297.3  | 285.8  | 283.5  | 285.1  |
| 40°   | 6472.6 | 2869.1 | 1326.0 | 676.4  | 370.7  | 331.7  | 304.9  | 291.2  | 279.0  | 275.1  | 275.9  |
| 42.5° | 6708.0 | 2798.0 | 1292.4 | 660.3  | 358.4  | 324.0  | 298.8  | 286.6  | 272.8  | 269.0  | 268.3  |
| 45°   | 6962.5 | 2774.3 | 1248.0 | 628.2  | 364.6  | 324.8  | 297.3  | 284.3  | 270.6  | 266.0  | 264.4  |
| 47.5° | 7298.0 | 2848.4 | 1202.2 | 590.0  | 377.5  | 328.6  | 299.6  | 284.3  | 269.8  | 266.0  | 264.4  |
| 50°   | 7720.6 | 3022.7 | 1144.1 | 534.2  | 364.6  | 339.3  | 298.8  | 282.0  | 269.8  | 266.0  | 262.9  |
| 52.5° | 8263.3 | 3258.1 | 1067.7 | 470.0  | 356.9  | 365.3  | 297.3  | 277.4  | 266.0  | 260.6  | 255.3  |
| 55°   | 8922.8 | 3450.7 | 976.7  | 417.3  | 339.3  | 358.4  | 295.0  | 272.1  | 259.9  | 252.2  | 247.6  |
| 57.5° | 9405.8 | 3520.2 | 859.8  | 382.9  | 314.9  | 347.0  | 291.9  | 265.2  | 252.2  | 246.1  | 240.0  |
| 60°   | 9310.3 | 3385.7 | 761.2  | 361.5  | 300.4  | 313.3  | 289.7  | 259.1  | 245.3  | 240.7  | 235.4  |
| 62.5° | 8545.3 | 3034.1 | 697.8  | 351.6  | 291.2  | 285.8  | 291.9  | 253.0  | 239.2  | 234.6  | 233.1  |
| 65°   | 7398.1 | 2515.2 | 672.6  | 349.3  | 283.5  | 269.8  | 271.3  | 246.1  | 232.3  | 228.5  | 227.0  |
| 67.5° | 6102.7 | 2029.9 | 650.4  | 356.9  | 273.6  | 258.3  | 250.7  | 236.9  | 225.5  | 221.6  | 218.6  |
| 70°   | 4812.6 | 1688.3 | 640.5  | 352.3  | 261.4  | 246.9  | 238.5  | 227.0  | 217.1  | 213.2  | 210.9  |
| 72.5° | 3875.6 | 1426.1 | 635.1  | 347.7  | 245.3  | 231.6  | 223.9  | 214.0  | 203.3  | 201.8  | 199.5  |
| 75°   | 3279.5 | 1121.2 | 581.6  | 333.2  | 227.0  | 213.2  | 207.9  | 198.7  | 188.0  | 188.0  | 186.5  |
| 77.5° | 2529.7 | 810.9  | 483.8  | 295.0  | 207.9  | 192.6  | 188.0  | 181.1  | 168.9  | 171.2  | 170.4  |
| 80°   | 1868.6 | 528.9  | 378.3  | 244.6  | 184.2  | 169.7  | 167.4  | 160.5  | 147.5  | 150.6  | 150.6  |
| 82.5° | 1280.1 | 347.0  | 272.1  | 200.2  | 157.4  | 143.7  | 143.7  | 136.8  | 122.3  | 123.8  | 128.4  |
| 85°   | 642.7  | 238.5  | 203.3  | 155.1  | 122.3  | 115.4  | 115.4  | 110.1  | 95.5   | 96.3   | 102.4  |
| 87.5° | 195.7  | 143.7  | 134.5  | 110.8  | 87.9   | 86.4   | 82.5   | 78.7   | 69.5   | 68.8   | 72.6   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 |
| 2.5°  | 4051.4 | 4007.8 | 3955.1 | 3838.9 | 3799.9 | 3797.6 | 3832.8 | 3796.1 | 3866.4 | 3836.6 | 3869.5 |
| 5°    | 3267.2 | 3224.4 | 3165.6 | 3017.3 | 2927.1 | 2866.0 | 2837.0 | 2751.4 | 2813.3 | 2768.2 | 2805.6 |
| 7.5°  | 2402.9 | 2412.8 | 2373.8 | 2286.7 | 2090.3 | 1991.7 | 1933.6 | 1881.6 | 1926.7 | 1922.1 | 1994.0 |
| 10°   | 1689.0 | 1715.8 | 1688.3 | 1600.4 | 1441.4 | 1387.1 | 1397.8 | 1418.5 | 1477.3 | 1507.9 | 1618.7 |
| 12.5° | 1215.9 | 1214.4 | 1196.8 | 1118.1 | 1013.4 | 1019.5 | 1063.1 | 1099.0 | 1153.3 | 1185.4 | 1298.5 |
| 15°   | 907.9  | 894.2  | 886.5  | 822.4  | 762.7  | 775.7  | 797.1  | 801.0  | 835.3  | 854.5  | 946.2  |
| 17.5° | 686.3  | 693.2  | 701.6  | 655.7  | 610.6  | 602.2  | 585.4  | 564.8  | 574.7  | 578.5  | 624.4  |
| 20°   | 544.9  | 572.4  | 593.1  | 561.0  | 515.1  | 490.7  | 469.3  | 455.5  | 455.5  | 454.7  | 467.7  |
| 22.5° | 476.1  | 496.0  | 518.2  | 496.0  | 454.7  | 433.3  | 421.1  | 410.4  | 408.9  | 408.9  | 421.1  |
| 25°   | 438.7  | 453.2  | 474.6  | 459.3  | 428.8  | 412.7  | 401.2  | 387.5  | 382.1  | 380.6  | 389.0  |
| 27.5° | 420.3  | 426.5  | 437.2  | 423.4  | 397.4  | 389.8  | 386.7  | 374.5  | 367.6  | 363.8  | 372.2  |
| 30°   | 389.0  | 387.5  | 388.2  | 374.5  | 353.9  | 353.1  | 358.4  | 360.7  | 358.4  | 357.7  | 370.7  |
| 32.5° | 360.0  | 356.9  | 356.1  | 343.9  | 324.8  | 320.2  | 324.8  | 329.4  | 334.7  | 342.4  | 357.7  |
| 35°   | 323.3  | 330.9  | 335.5  | 324.8  | 301.9  | 288.1  | 282.8  | 274.4  | 269.8  | 269.8  | 287.4  |
| 37.5° | 294.2  | 311.8  | 318.7  | 308.8  | 283.5  | 264.4  | 255.3  | 253.7  | 254.5  | 257.6  | 274.4  |
| 40°   | 284.3  | 297.3  | 303.4  | 293.5  | 268.3  | 250.7  | 245.3  | 243.8  | 245.3  | 249.9  | 266.7  |
| 42.5° | 278.2  | 287.4  | 286.6  | 274.4  | 253.7  | 241.5  | 238.5  | 236.9  | 238.5  | 243.0  | 261.4  |
| 45°   | 272.8  | 279.0  | 272.8  | 258.3  | 239.2  | 233.1  | 233.9  | 233.1  | 234.6  | 239.2  | 256.8  |
| 47.5° | 268.3  | 270.6  | 262.9  | 248.4  | 228.5  | 227.0  | 230.0  | 232.3  | 233.9  | 237.7  | 256.0  |
| 50°   | 261.4  | 261.4  | 254.5  | 239.2  | 219.3  | 220.1  | 223.9  | 229.3  | 230.0  | 234.6  | 249.2  |
| 52.5° | 253.0  | 252.2  | 247.6  | 233.1  | 211.7  | 214.0  | 214.0  | 220.1  | 221.6  | 227.0  | 242.3  |
| 55°   | 246.1  | 244.6  | 242.3  | 228.5  | 204.8  | 208.6  | 206.4  | 208.6  | 212.5  | 217.8  | 234.6  |
| 57.5° | 240.0  | 236.9  | 236.9  | 224.7  | 199.5  | 201.0  | 195.7  | 198.7  | 203.3  | 207.9  | 225.5  |
| 60°   | 233.9  | 230.8  | 232.3  | 219.3  | 191.1  | 189.5  | 187.2  | 193.4  | 194.9  | 200.2  | 217.8  |
| 62.5° | 227.0  | 224.7  | 225.5  | 213.2  | 185.0  | 181.1  | 181.1  | 186.5  | 187.2  | 194.9  | 211.7  |
| 65°   | 221.6  | 218.6  | 217.8  | 207.1  | 178.1  | 173.5  | 175.8  | 178.1  | 179.6  | 187.2  | 203.3  |
| 67.5° | 216.3  | 210.2  | 210.2  | 201.8  | 170.4  | 165.8  | 170.4  | 169.7  | 172.0  | 178.8  | 191.8  |
| 70°   | 209.4  | 201.0  | 201.8  | 197.9  | 162.8  | 157.4  | 161.3  | 160.5  | 162.0  | 166.6  | 179.6  |
| 72.5° | 198.7  | 191.8  | 193.4  | 191.8  | 155.1  | 147.5  | 149.0  | 149.0  | 149.0  | 152.9  | 166.6  |
| 75°   | 185.0  | 179.6  | 184.2  | 188.0  | 146.0  | 135.3  | 136.8  | 136.8  | 134.5  | 136.8  | 153.6  |
| 77.5° | 168.1  | 165.1  | 180.4  | 175.0  | 135.3  | 122.3  | 122.3  | 120.8  | 116.2  | 119.2  | 137.6  |
| 80°   | 149.8  | 147.5  | 166.6  | 146.7  | 123.0  | 106.2  | 104.7  | 100.9  | 96.3   | 98.6   | 116.9  |
| 82.5° | 130.7  | 128.4  | 139.9  | 112.3  | 106.2  | 87.9   | 84.1   | 77.2   | 72.6   | 74.9   | 91.7   |
| 85°   | 107.0  | 107.0  | 107.8  | 84.8   | 81.0   | 67.3   | 62.7   | 53.5   | 48.1   | 49.7   | 65.7   |
| 87.5° | 76.4   | 78.7   | 72.6   | 58.1   | 48.1   | 37.4   | 34.4   | 29.0   | 24.5   | 28.3   | 34.4   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2 | 4697.2  | 4697.2  |
| 2.5°  | 4037.6 | 4121.7 | 4217.2 | 4339.5 | 4444.2 | 4616.2 | 4781.3  | 4880.6  |
| 5°    | 3018.9 | 3158.7 | 3333.0 | 3556.9 | 3765.5 | 4078.9 | 4389.9  | 4589.4  |
| 7.5°  | 2160.6 | 2310.4 | 2498.4 | 2778.1 | 3073.1 | 3472.8 | 3884.0  | 4122.5  |
| 10°   | 1787.6 | 1941.2 | 2099.4 | 2288.2 | 2529.7 | 2964.6 | 3450.7  | 3719.7  |
| 12.5° | 1478.9 | 1643.2 | 1813.6 | 2012.3 | 2236.2 | 2624.5 | 3184.7  | 3494.2  |
| 15°   | 1131.9 | 1315.3 | 1516.3 | 1767.7 | 2048.2 | 2496.9 | 3119.0  | 3455.2  |
| 17.5° | 775.7  | 980.6  | 1227.4 | 1537.7 | 1880.9 | 2455.6 | 3236.7  | 3624.2  |
| 20°   | 534.2  | 683.3  | 946.9  | 1310.7 | 1723.4 | 2450.2 | 3462.9  | 3948.2  |
| 22.5° | 447.1  | 513.6  | 706.2  | 1102.1 | 1605.0 | 2516.0 | 3813.7  | 4402.9  |
| 25°   | 413.5  | 453.2  | 564.0  | 920.9  | 1518.6 | 2667.3 | 4296.7  | 4991.4  |
| 27.5° | 393.6  | 429.5  | 512.1  | 802.5  | 1450.6 | 2843.1 | 4766.7  | 5561.6  |
| 30°   | 401.2  | 437.9  | 497.5  | 742.1  | 1358.1 | 2989.8 | 5184.0  | 6006.4  |
| 32.5° | 361.5  | 377.5  | 426.5  | 688.6  | 1291.6 | 3112.9 | 5549.3  | 6374.7  |
| 35°   | 308.0  | 336.3  | 380.6  | 663.4  | 1293.1 | 3195.4 | 5947.5  | 6845.5  |
| 37.5° | 293.5  | 321.8  | 353.9  | 654.2  | 1310.7 | 3283.3 | 6404.6  | 7397.3  |
| 40°   | 284.3  | 310.3  | 337.8  | 648.9  | 1327.5 | 3363.5 | 6852.4  | 7943.0  |
| 42.5° | 278.2  | 301.9  | 336.3  | 630.5  | 1335.9 | 3435.4 | 7220.8  | 8406.9  |
| 45°   | 277.4  | 301.9  | 342.4  | 612.2  | 1348.9 | 3512.6 | 7529.6  | 8750.1  |
| 47.5° | 278.2  | 311.8  | 330.9  | 590.0  | 1348.9 | 3641.7 | 7891.8  | 9056.6  |
| 50°   | 275.1  | 328.6  | 318.7  | 558.7  | 1317.6 | 3886.3 | 8388.6  | 9467.0  |
| 52.5° | 273.6  | 326.3  | 295.0  | 510.5  | 1263.3 | 4274.5 | 9025.2  | 10032.5 |
| 55°   | 269.8  | 314.9  | 278.2  | 438.7  | 1199.9 | 4697.9 | 9706.9  | 10701.3 |
| 57.5° | 266.0  | 279.0  | 269.0  | 376.0  | 1102.1 | 4996.0 | 10176.2 | 11223.3 |
| 60°   | 298.1  | 243.8  | 261.4  | 345.4  | 971.4  | 5077.8 | 10157.9 | 11431.1 |
| 62.5° | 275.9  | 228.5  | 251.4  | 338.6  | 879.7  | 4848.5 | 9688.6  | 11318.8 |
| 65°   | 216.3  | 218.6  | 241.5  | 358.4  | 855.2  | 4240.9 | 8857.1  | 10799.9 |
| 67.5° | 197.9  | 208.6  | 231.6  | 383.7  | 857.5  | 3395.6 | 7614.4  | 9669.5  |
| 70°   | 186.5  | 197.9  | 220.1  | 396.7  | 863.6  | 2531.3 | 6020.1  | 7875.8  |
| 72.5° | 173.5  | 183.4  | 207.1  | 398.9  | 823.9  | 1838.8 | 4639.9  | 5790.8  |
| 75°   | 158.2  | 167.4  | 188.8  | 347.7  | 682.5  | 1275.6 | 3549.3  | 3962.0  |
| 77.5° | 140.6  | 147.5  | 165.8  | 268.3  | 506.7  | 816.2  | 2664.2  | 2894.3  |
| 80°   | 120.0  | 123.8  | 139.1  | 196.4  | 347.0  | 510.5  | 2107.8  | 2322.6  |
| 82.5° | 96.3   | 97.8   | 107.8  | 147.5  | 225.5  | 327.9  | 1411.6  | 1611.1  |
| 85°   | 68.0   | 68.0   | 74.1   | 107.0  | 153.6  | 207.9  | 766.6   | 849.9   |
| 87.5° | 32.1   | 32.9   | 32.9   | 58.8   | 80.2   | 105.5  | 176.5   | 108.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)