

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: P301567

Luminaire Tested: **GAA-AF-02-LED-U-T2R-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-02-LED-U-T2R-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

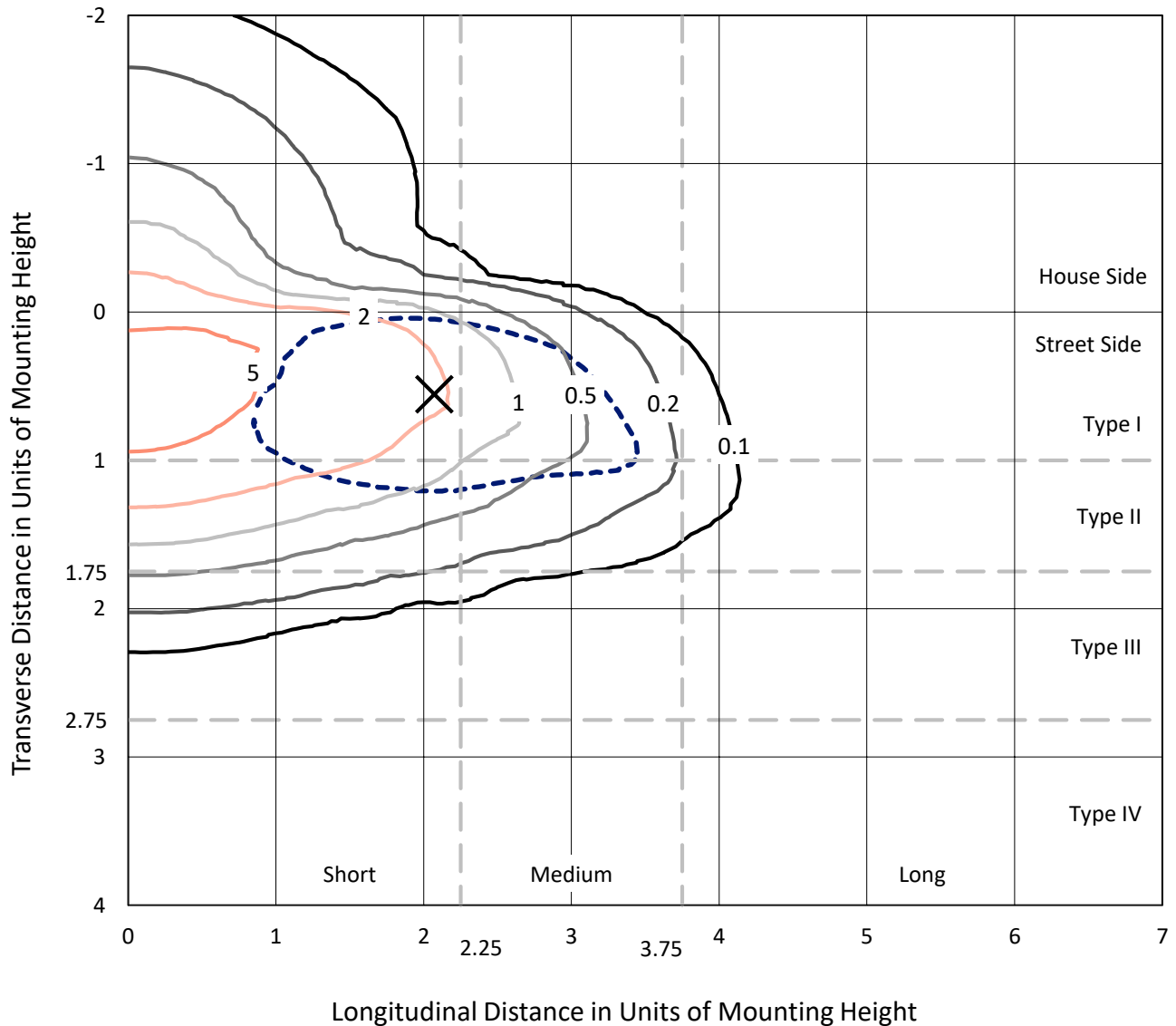
Lumens per Lamp: N/A  
Luminaire Lumens: 12228.6 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (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

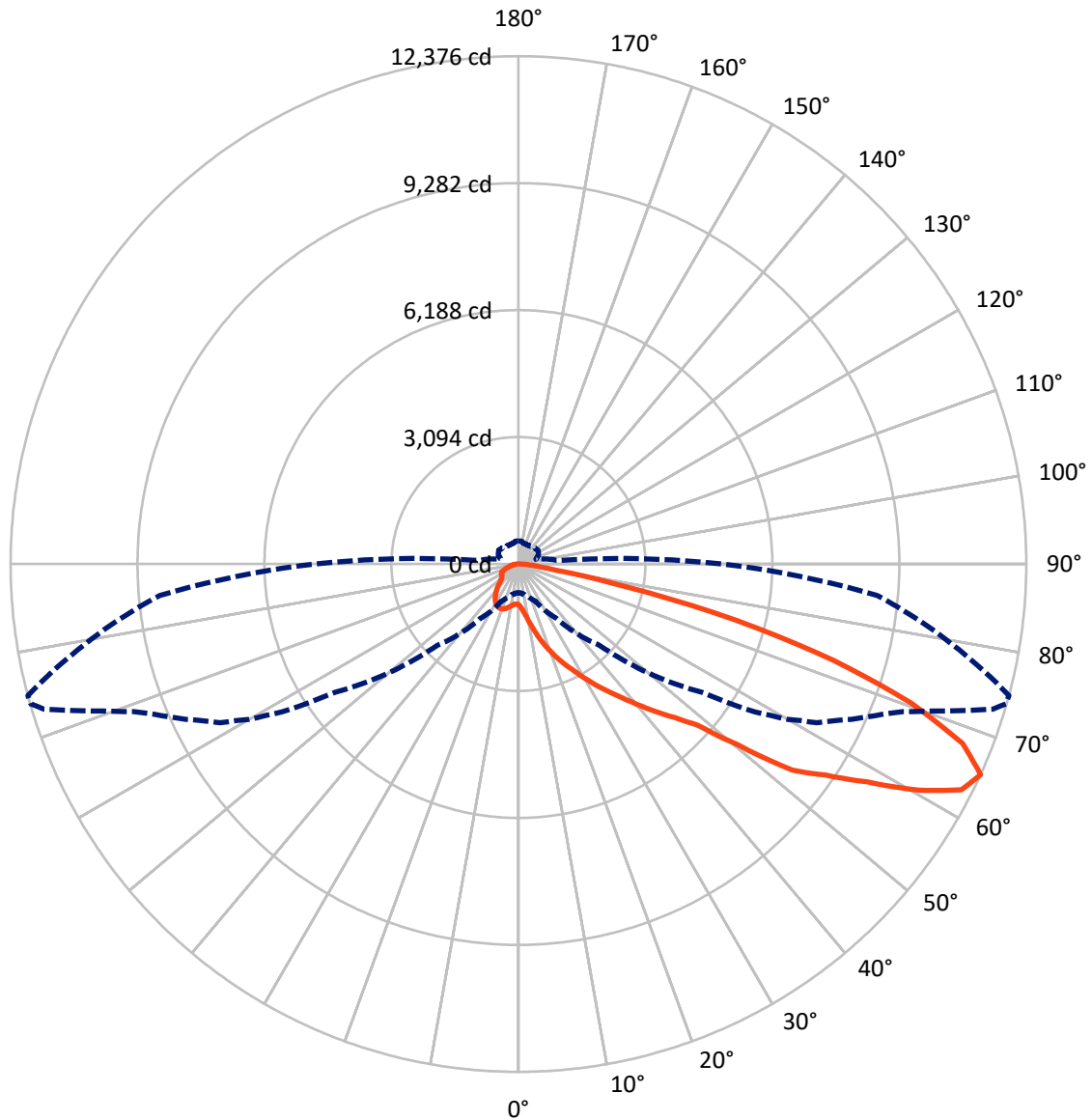
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1885.4   | 0.0    | 1885.4  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 10343.2  | 0.0    | 10343.2 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 12228.6  | 0.0    | 12228.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 122.8   | 1.0       |
| 10°-20°   | 480.0   | 3.9       |
| 20°-30°   | 984.7   | 8.1       |
| 30°-40°   | 1656.7  | 13.5      |
| 40°-50°   | 2289.1  | 18.7      |
| 50°-60°   | 2857.5  | 23.4      |
| 60°-70°   | 2571.5  | 21.0      |
| 70°-80°   | 1077.9  | 8.8       |
| 80°-90°   | 188.3   | 1.5       |
| 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°    | 12228.6 | 100.0     |
| 0°-180°   | 12228.6 | 100.0     |

**Coefficient of Utilization**



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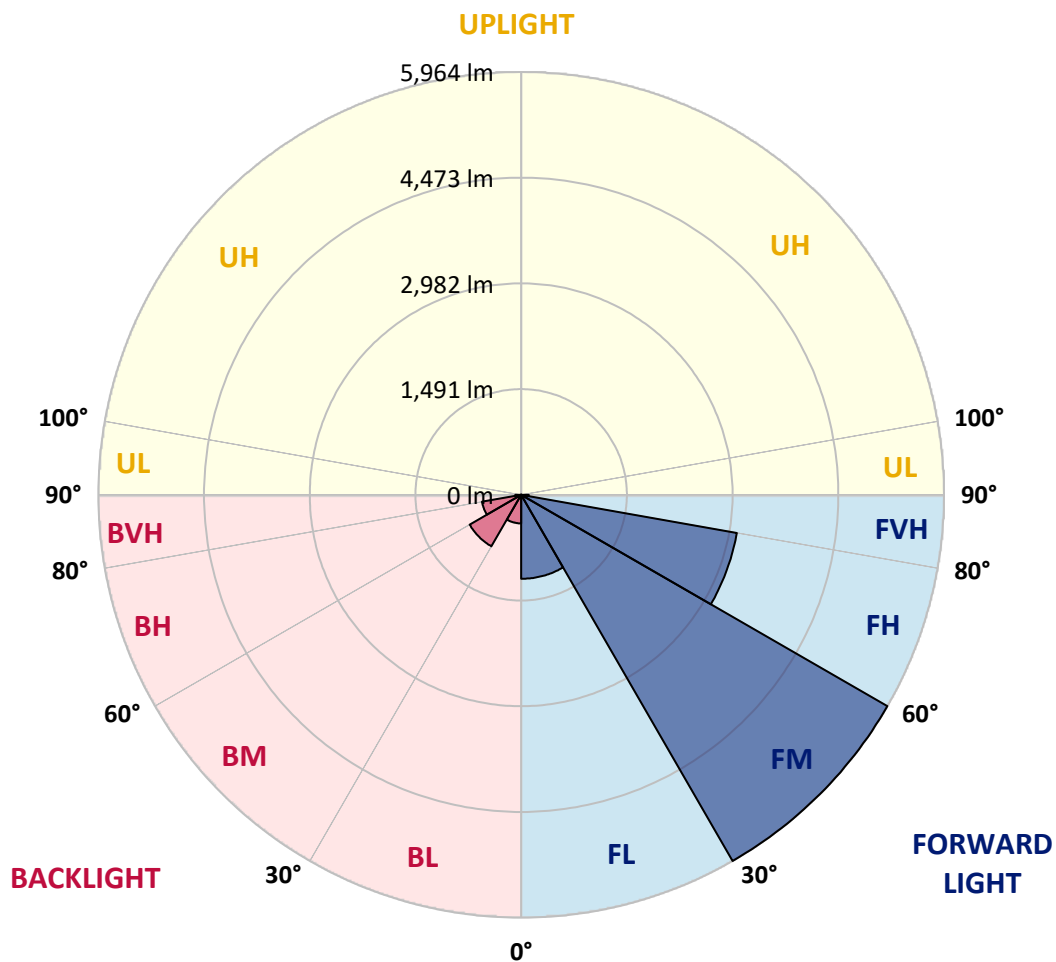
CATALOG NUMBER: GAA-AF-02-LED-U-T2R-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1184.3 | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 5964.2 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 3088.9 | 25.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 105.8  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 403.2  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 839.2  | 6.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 560.5  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 82.5   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  |
| 2.5°  | 1261.8 | 1247.9 | 1251.4 | 1228.2 | 1199.8 | 1162.8 | 1121.7 | 1121.2 | 1121.7 | 1117.6 | 1102.7 |
| 5°    | 1749.6 | 1733.0 | 1726.6 | 1674.4 | 1598.0 | 1489.3 | 1371.2 | 1358.5 | 1353.2 | 1340.0 | 1309.2 |
| 7.5°  | 2105.7 | 2096.5 | 2086.5 | 2047.2 | 1977.8 | 1856.3 | 1697.6 | 1670.5 | 1644.4 | 1638.0 | 1603.3 |
| 10°   | 2335.5 | 2333.1 | 2312.3 | 2301.8 | 2258.6 | 2153.1 | 1998.6 | 1972.5 | 1944.2 | 1934.4 | 1897.8 |
| 12.5° | 2517.1 | 2516.6 | 2506.8 | 2509.8 | 2472.0 | 2395.7 | 2262.5 | 2238.8 | 2218.0 | 2187.8 | 2161.9 |
| 15°   | 2642.8 | 2643.3 | 2657.9 | 2674.1 | 2668.2 | 2616.7 | 2491.7 | 2481.3 | 2463.4 | 2442.6 | 2411.9 |
| 17.5° | 2745.8 | 2748.8 | 2763.7 | 2793.2 | 2825.2 | 2821.1 | 2722.2 | 2713.4 | 2697.8 | 2669.4 | 2653.3 |
| 20°   | 2978.5 | 2989.5 | 2960.6 | 2960.6 | 2964.1 | 2979.7 | 2932.1 | 2925.3 | 2903.3 | 2888.2 | 2875.5 |
| 22.5° | 3371.5 | 3384.2 | 3318.8 | 3252.4 | 3186.9 | 3139.4 | 3092.0 | 3100.6 | 3085.6 | 3075.2 | 3067.6 |
| 25°   | 3882.0 | 3892.0 | 3786.0 | 3673.7 | 3540.5 | 3366.9 | 3249.4 | 3244.1 | 3236.1 | 3229.7 | 3226.3 |
| 27.5° | 4362.4 | 4366.5 | 4266.4 | 4101.9 | 3947.4 | 3697.9 | 3409.1 | 3402.8 | 3393.0 | 3380.8 | 3370.3 |
| 30°   | 4773.5 | 4772.3 | 4669.2 | 4512.3 | 4346.8 | 4070.7 | 3651.7 | 3632.0 | 3603.0 | 3570.0 | 3544.6 |
| 32.5° | 5129.4 | 5127.7 | 5014.7 | 4852.1 | 4678.5 | 4440.0 | 3984.0 | 3943.5 | 3898.3 | 3833.9 | 3795.3 |
| 35°   | 5409.5 | 5408.4 | 5301.8 | 5132.3 | 4933.2 | 4787.9 | 4364.8 | 4315.0 | 4257.7 | 4171.5 | 4111.9 |
| 37.5° | 5515.4 | 5515.4 | 5455.8 | 5340.1 | 5164.1 | 5064.5 | 4787.9 | 4727.6 | 4666.3 | 4568.5 | 4501.3 |
| 40°   | 5453.4 | 5454.6 | 5467.3 | 5446.0 | 5360.3 | 5283.9 | 5182.6 | 5146.7 | 5094.0 | 5006.1 | 4936.1 |
| 42.5° | 5245.6 | 5252.0 | 5336.6 | 5440.2 | 5482.9 | 5470.9 | 5532.7 | 5516.6 | 5479.5 | 5411.9 | 5356.2 |
| 45°   | 4982.3 | 5002.0 | 5094.6 | 5290.3 | 5517.1 | 5632.3 | 5826.2 | 5827.9 | 5821.0 | 5784.6 | 5741.7 |
| 47.5° | 4620.7 | 4648.3 | 4770.5 | 5035.0 | 5437.3 | 5789.3 | 6124.2 | 6139.9 | 6154.5 | 6130.8 | 6111.0 |
| 50°   | 4140.2 | 4173.2 | 4356.1 | 4706.8 | 5274.7 | 5951.9 | 6687.4 | 6758.2 | 6824.1 | 6816.0 | 6829.2 |
| 52.5° | 3625.6 | 3664.4 | 3888.3 | 4279.1 | 4995.1 | 5989.5 | 7047.5 | 7162.7 | 7277.9 | 7372.2 | 7472.3 |
| 55°   | 3161.4 | 3140.6 | 3364.7 | 3776.1 | 4535.5 | 5819.8 | 7371.1 | 7510.0 | 7638.5 | 7754.2 | 7873.5 |
| 57.5° | 2532.3 | 2566.4 | 2791.0 | 3197.9 | 3927.2 | 5341.1 | 7593.8 | 7797.1 | 7981.7 | 8173.3 | 8342.3 |
| 60°   | 1850.9 | 1885.1 | 2128.8 | 2542.0 | 3266.8 | 4615.3 | 7423.7 | 7731.7 | 8027.4 | 8320.8 | 8550.0 |
| 62.5° | 1117.6 | 1143.2 | 1357.8 | 1751.5 | 2519.0 | 3754.8 | 6665.4 | 7069.5 | 7504.7 | 7855.5 | 8206.8 |
| 65°   | 695.7  | 710.2  | 789.5  | 1006.0 | 1617.8 | 2803.2 | 5446.0 | 5886.4 | 6355.2 | 6800.4 | 7165.6 |
| 67.5° | 569.5  | 574.7  | 589.3  | 635.5  | 888.4  | 1827.9 | 4053.4 | 4443.5 | 4866.5 | 5297.2 | 5703.6 |
| 70°   | 512.2  | 508.8  | 508.8  | 511.7  | 569.5  | 982.8  | 2653.8 | 2907.9 | 3260.4 | 3634.9 | 4006.5 |
| 72.5° | 462.4  | 459.0  | 452.6  | 444.0  | 464.8  | 599.6  | 1371.7 | 1563.3 | 1817.5 | 2150.2 | 2506.2 |
| 75°   | 415.5  | 410.9  | 403.5  | 392.5  | 406.9  | 452.6  | 658.6  | 739.2  | 863.0  | 1040.2 | 1238.7 |
| 77.5° | 366.9  | 361.1  | 354.2  | 346.1  | 364.7  | 352.0  | 386.0  | 415.0  | 462.4  | 519.2  | 593.9  |
| 80°   | 312.0  | 306.8  | 304.4  | 300.5  | 322.5  | 268.0  | 272.7  | 290.5  | 318.3  | 349.1  | 383.8  |
| 82.5° | 244.3  | 244.3  | 253.4  | 255.3  | 279.5  | 192.8  | 203.8  | 219.4  | 233.9  | 250.0  | 266.3  |
| 85°   | 160.9  | 162.1  | 193.3  | 205.5  | 220.5  | 129.6  | 152.8  | 158.0  | 169.6  | 178.9  | 185.8  |
| 87.5° | 50.3   | 54.4   | 118.1  | 130.8  | 126.7  | 73.5   | 93.7   | 96.2   | 104.2  | 110.6  | 116.4  |
| 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):**

|       | 60°    | 61°    | 62°    | 63°    | 64°    | 65°    | 66°    | 67°    | 68°     | 69°     | 70°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8   | 993.8   | 993.8   |
| 2.5°  | 1102.7 | 1095.6 | 1089.3 | 1088.8 | 1084.1 | 1077.8 | 1080.0 | 1070.2 | 1070.7  | 1065.6  | 1059.7  |
| 5°    | 1296.5 | 1291.9 | 1268.7 | 1262.3 | 1245.0 | 1234.0 | 1232.3 | 1209.1 | 1206.2  | 1193.0  | 1178.4  |
| 7.5°  | 1575.5 | 1560.4 | 1528.0 | 1512.3 | 1482.8 | 1460.8 | 1450.5 | 1419.8 | 1404.7  | 1370.0  | 1354.4  |
| 10°   | 1867.8 | 1848.7 | 1808.7 | 1786.7 | 1758.4 | 1723.0 | 1704.0 | 1659.5 | 1642.0  | 1610.2  | 1572.1  |
| 12.5° | 2138.7 | 2119.7 | 2078.4 | 2061.6 | 2024.0 | 1986.4 | 1965.6 | 1915.3 | 1892.7  | 1841.7  | 1811.6  |
| 15°   | 2389.2 | 2370.2 | 2334.3 | 2316.9 | 2279.3 | 2248.6 | 2220.8 | 2171.2 | 2144.5  | 2097.0  | 2057.7  |
| 17.5° | 2632.4 | 2612.1 | 2580.8 | 2565.2 | 2528.8 | 2497.6 | 2467.5 | 2420.5 | 2393.3  | 2346.0  | 2310.6  |
| 20°   | 2858.1 | 2843.0 | 2820.5 | 2799.6 | 2763.2 | 2734.9 | 2699.0 | 2658.5 | 2619.1  | 2584.3  | 2550.8  |
| 22.5° | 3054.9 | 3049.1 | 3024.9 | 3015.6 | 2984.3 | 2960.0 | 2928.7 | 2888.9 | 2860.4  | 2816.4  | 2785.2  |
| 25°   | 3224.6 | 3222.8 | 3211.2 | 3208.2 | 3186.3 | 3163.1 | 3156.2 | 3123.2 | 3097.1  | 3058.3  | 3026.1  |
| 27.5° | 3370.3 | 3372.0 | 3369.3 | 3377.4 | 3371.5 | 3361.1 | 3361.7 | 3350.8 | 3335.6  | 3303.2  | 3274.9  |
| 30°   | 3532.4 | 3523.1 | 3528.5 | 3540.0 | 3543.4 | 3544.6 | 3563.7 | 3570.0 | 3569.0  | 3547.5  | 3533.6  |
| 32.5° | 3761.6 | 3739.7 | 3719.4 | 3717.7 | 3729.2 | 3733.8 | 3766.3 | 3783.1 | 3797.5  | 3802.7  | 3805.1  |
| 35°   | 4053.9 | 4009.9 | 3967.7 | 3945.2 | 3925.4 | 3930.6 | 3953.8 | 3981.1 | 4012.8  | 4034.8  | 4060.9  |
| 37.5° | 4422.0 | 4368.3 | 4293.6 | 4240.3 | 4226.9 | 4198.1 | 4213.0 | 4234.5 | 4265.7  | 4299.9  | 4345.1  |
| 40°   | 4868.2 | 4786.7 | 4702.7 | 4632.2 | 4594.0 | 4540.6 | 4540.1 | 4536.0 | 4555.2  | 4587.0  | 4650.7  |
| 42.5° | 5297.8 | 5225.4 | 5136.3 | 5062.3 | 5012.5 | 4941.2 | 4926.8 | 4889.2 | 4897.8  | 4925.6  | 4987.6  |
| 45°   | 5700.0 | 5640.4 | 5586.0 | 5500.5 | 5458.0 | 5381.1 | 5356.7 | 5312.3 | 5287.4  | 5300.1  | 5362.1  |
| 47.5° | 6089.6 | 6051.4 | 5994.6 | 5939.1 | 5906.7 | 5837.8 | 5806.6 | 5774.7 | 5742.9  | 5741.7  | 5806.6  |
| 50°   | 6849.0 | 6828.7 | 6761.6 | 6703.7 | 6719.4 | 6634.9 | 6640.0 | 6554.4 | 6593.2  | 6597.8  | 6733.8  |
| 52.5° | 7562.6 | 7633.3 | 7683.1 | 7743.7 | 7783.2 | 7790.8 | 7816.7 | 7855.5 | 7902.4  | 7994.9  | 8121.1  |
| 55°   | 7971.2 | 8059.8 | 8111.3 | 8157.7 | 8234.1 | 8250.2 | 8293.7 | 8345.2 | 8386.2  | 8490.5  | 8597.6  |
| 57.5° | 8457.0 | 8621.3 | 8701.1 | 8774.6 | 8877.6 | 8917.0 | 8989.4 | 9045.6 | 9098.8  | 9222.1  | 9351.7  |
| 60°   | 8756.1 | 8956.5 | 9119.1 | 9235.3 | 9364.4 | 9457.1 | 9566.5 | 9654.4 | 9779.4  | 9927.1  | 10120.4 |
| 62.5° | 8518.3 | 8812.2 | 9028.2 | 9227.9 | 9403.2 | 9580.4 | 9737.2 | 9901.7 | 10091.4 | 10314.8 | 10614.7 |
| 65°   | 7570.8 | 7869.9 | 8239.8 | 8447.0 | 8679.2 | 8952.3 | 9190.8 | 9457.1 | 9715.7  | 10041.1 | 10484.4 |
| 67.5° | 6094.9 | 6442.6 | 6858.3 | 7067.2 | 7334.1 | 7639.0 | 7906.5 | 8231.7 | 8533.9  | 8928.0  | 9476.2  |
| 70°   | 4393.2 | 4842.8 | 5192.4 | 5410.7 | 5722.1 | 6036.3 | 6294.6 | 6673.0 | 6923.0  | 7327.0  | 7893.8  |
| 72.5° | 2781.7 | 3136.5 | 3564.9 | 3839.8 | 4116.4 | 4434.9 | 4698.8 | 5025.2 | 5258.4  | 5626.5  | 6139.9  |
| 75°   | 1495.7 | 1757.2 | 2133.4 | 2394.5 | 2690.9 | 2962.9 | 3271.9 | 3490.7 | 3663.2  | 3954.5  | 4371.2  |
| 77.5° | 700.9  | 860.1  | 1050.5 | 1251.4 | 1452.2 | 1661.7 | 1865.5 | 2042.6 | 2116.7  | 2283.5  | 2529.3  |
| 80°   | 425.5  | 477.0  | 532.4  | 594.4  | 678.4  | 746.0  | 835.8  | 900.6  | 905.2   | 957.9   | 1033.1  |
| 82.5° | 284.2  | 303.2  | 320.1  | 335.7  | 357.1  | 374.0  | 393.0  | 415.5  | 424.8   | 437.0   | 461.4   |
| 85°   | 193.9  | 203.1  | 206.6  | 216.5  | 214.1  | 219.9  | 227.5  | 235.1  | 239.0   | 238.5   | 249.5   |
| 87.5° | 119.2  | 123.8  | 126.2  | 128.4  | 126.7  | 124.5  | 127.9  | 132.0  | 133.1   | 129.6   | 130.8   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°    | 90°    | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 993.8   | 993.8   | 993.8   | 993.8   | 993.8   | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  | 993.8  |
| 2.5°  | 1060.9  | 1055.8  | 1050.5  | 1047.0  | 1045.8  | 1015.3 | 1001.9 | 993.3  | 974.7  | 959.6  | 947.4  |
| 5°    | 1170.3  | 1159.3  | 1150.7  | 1140.3  | 1134.4  | 1056.8 | 1028.5 | 1008.9 | 976.5  | 957.4  | 939.9  |
| 7.5°  | 1346.3  | 1315.6  | 1297.7  | 1277.5  | 1260.1  | 1120.0 | 1073.1 | 1042.4 | 997.2  | 971.8  | 952.1  |
| 10°   | 1546.0  | 1514.2  | 1485.7  | 1454.5  | 1427.4  | 1204.0 | 1135.6 | 1088.1 | 1028.5 | 995.5  | 969.4  |
| 12.5° | 1768.9  | 1737.6  | 1701.7  | 1661.7  | 1627.0  | 1310.4 | 1215.5 | 1147.8 | 1066.1 | 1022.1 | 985.7  |
| 15°   | 2032.3  | 1977.1  | 1933.7  | 1887.5  | 1847.0  | 1437.8 | 1308.7 | 1215.0 | 1106.1 | 1046.5 | 997.9  |
| 17.5° | 2276.9  | 2219.1  | 2160.2  | 2119.7  | 2072.8  | 1580.7 | 1402.5 | 1283.1 | 1139.1 | 1062.1 | 1000.2 |
| 20°   | 2516.1  | 2452.9  | 2402.1  | 2347.7  | 2298.4  | 1728.9 | 1502.6 | 1343.4 | 1160.5 | 1062.7 | 985.7  |
| 22.5° | 2726.8  | 2687.3  | 2630.6  | 2571.6  | 2521.8  | 1877.0 | 1596.3 | 1394.4 | 1168.6 | 1049.4 | 960.2  |
| 25°   | 2966.3  | 2924.8  | 2855.2  | 2805.4  | 2750.0  | 2028.1 | 1688.3 | 1433.7 | 1164.0 | 1024.5 | 920.8  |
| 27.5° | 3222.1  | 3176.0  | 3104.7  | 3052.7  | 2985.5  | 2184.9 | 1772.8 | 1462.0 | 1146.6 | 984.0  | 868.1  |
| 30°   | 3489.0  | 3446.7  | 3376.7  | 3324.1  | 3256.3  | 2351.1 | 1867.3 | 1481.1 | 1111.9 | 927.9  | 806.8  |
| 32.5° | 3775.5  | 3740.2  | 3670.8  | 3615.9  | 3543.4  | 2531.0 | 1955.2 | 1486.9 | 1059.2 | 861.3  | 742.1  |
| 35°   | 4047.5  | 4023.3  | 3964.8  | 3913.2  | 3838.0  | 2701.2 | 2048.4 | 1484.0 | 996.7  | 788.3  | 683.0  |
| 37.5° | 4353.8  | 4339.2  | 4310.4  | 4245.0  | 4152.9  | 2932.1 | 2160.2 | 1471.8 | 920.3  | 716.0  | 637.9  |
| 40°   | 4680.2  | 4681.4  | 4650.2  | 4605.5  | 4519.9  | 3212.4 | 2293.2 | 1448.1 | 836.9  | 652.3  | 596.7  |
| 42.5° | 5025.7  | 5043.7  | 5028.6  | 4996.9  | 4914.6  | 3494.8 | 2452.4 | 1419.3 | 756.0  | 590.3  | 556.3  |
| 45°   | 5421.6  | 5443.6  | 5466.8  | 5419.9  | 5340.1  | 3867.6 | 2661.9 | 1381.7 | 668.4  | 538.8  | 528.5  |
| 47.5° | 5878.4  | 5913.1  | 5933.8  | 5934.5  | 5854.7  | 4329.4 | 3002.2 | 1359.0 | 591.0  | 504.1  | 515.1  |
| 50°   | 6842.0  | 6853.1  | 6902.2  | 6987.9  | 6926.6  | 5398.5 | 3596.6 | 1345.1 | 538.3  | 482.7  | 505.3  |
| 52.5° | 8230.5  | 8351.6  | 8436.7  | 8430.9  | 8347.4  | 6077.4 | 3924.2 | 1273.3 | 507.0  | 474.6  | 500.7  |
| 55°   | 8796.1  | 8947.2  | 9104.6  | 9146.2  | 9081.5  | 6656.9 | 4234.0 | 1201.6 | 491.9  | 480.4  | 502.4  |
| 57.5° | 9549.7  | 9804.3  | 10020.3 | 10111.1 | 10017.4 | 7398.3 | 4641.4 | 1164.0 | 487.3  | 496.0  | 513.4  |
| 60°   | 10430.0 | 10744.9 | 11028.5 | 11191.7 | 11191.7 | 8250.2 | 5064.0 | 1148.3 | 480.9  | 519.2  | 531.9  |
| 62.5° | 10995.6 | 11458.0 | 11886.4 | 12125.4 | 12118.3 | 8843.5 | 5251.5 | 1095.1 | 466.5  | 535.4  | 557.3  |
| 65°   | 10997.8 | 11547.8 | 12093.4 | 12362.2 | 12375.9 | 8770.7 | 4941.9 | 967.2  | 439.9  | 537.8  | 582.9  |
| 67.5° | 10081.1 | 10667.3 | 11303.4 | 11603.9 | 11673.3 | 8073.7 | 4277.9 | 795.3  | 396.5  | 514.6  | 592.2  |
| 70°   | 8514.2  | 9086.6  | 9736.0  | 10031.3 | 10154.6 | 6882.5 | 3445.5 | 613.0  | 341.0  | 463.6  | 573.0  |
| 72.5° | 6707.7  | 7269.1  | 7721.2  | 7937.1  | 8033.2  | 5260.8 | 2509.1 | 463.1  | 279.5  | 390.6  | 521.5  |
| 75°   | 4749.1  | 5170.4  | 5410.7  | 5458.7  | 5473.7  | 3171.3 | 1524.5 | 344.4  | 230.4  | 303.9  | 440.4  |
| 77.5° | 2680.4  | 2861.1  | 2841.3  | 2862.8  | 2684.6  | 1224.2 | 664.0  | 246.6  | 189.9  | 230.9  | 341.5  |
| 80°   | 1046.5  | 1079.0  | 1013.6  | 993.3   | 911.0   | 455.5  | 292.9  | 171.9  | 151.6  | 174.8  | 239.0  |
| 82.5° | 461.4   | 476.3   | 462.4   | 466.0   | 445.7   | 235.1  | 175.3  | 124.5  | 115.7  | 127.9  | 158.7  |
| 85°   | 254.1   | 258.8   | 257.6   | 265.1   | 254.1   | 93.7   | 83.3   | 76.4   | 81.0   | 86.9   | 101.8  |
| 87.5° | 123.8   | 125.0   | 121.0   | 127.4   | 123.3   | 47.4   | 41.0   | 43.4   | 47.4   | 48.6   | 48.6   |
| 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):**

|       | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 993.8 | 993.8 | 993.8 | 993.8 | 993.8 | 993.8 |
| 2.5°  | 938.9 | 934.2 | 934.7 | 933.5 | 931.3 | 931.3 |
| 5°    | 930.8 | 926.2 | 926.2 | 925.0 | 922.0 | 922.6 |
| 7.5°  | 938.9 | 931.3 | 928.4 | 924.3 | 920.3 | 920.3 |
| 10°   | 948.1 | 934.7 | 926.7 | 919.8 | 914.5 | 914.5 |
| 12.5° | 955.0 | 934.2 | 920.8 | 911.6 | 906.4 | 906.4 |
| 15°   | 957.4 | 930.1 | 911.6 | 900.6 | 895.9 | 895.4 |
| 17.5° | 949.9 | 914.5 | 892.0 | 879.3 | 873.4 | 871.7 |
| 20°   | 926.7 | 886.2 | 859.0 | 844.4 | 836.4 | 833.4 |
| 22.5° | 892.0 | 845.6 | 813.9 | 798.8 | 788.3 | 786.6 |
| 25°   | 843.4 | 793.6 | 762.4 | 747.8 | 742.1 | 740.2 |
| 27.5° | 786.6 | 740.2 | 713.6 | 704.3 | 699.2 | 698.7 |
| 30°   | 732.8 | 693.3 | 673.8 | 666.7 | 660.4 | 659.3 |
| 32.5° | 682.3 | 657.4 | 650.1 | 640.1 | 625.2 | 623.4 |
| 35°   | 646.5 | 644.2 | 639.1 | 616.9 | 598.6 | 593.2 |
| 37.5° | 624.5 | 645.9 | 619.3 | 575.9 | 562.7 | 561.5 |
| 40°   | 611.8 | 628.1 | 582.2 | 567.3 | 568.3 | 567.3 |
| 42.5° | 582.9 | 599.6 | 583.4 | 576.6 | 581.0 | 582.2 |
| 45°   | 553.9 | 572.5 | 592.2 | 587.6 | 598.6 | 598.6 |
| 47.5° | 537.8 | 565.4 | 591.5 | 591.5 | 607.8 | 613.5 |
| 50°   | 519.2 | 559.7 | 582.2 | 590.3 | 603.2 | 598.6 |
| 52.5° | 518.0 | 549.8 | 569.0 | 583.4 | 589.3 | 584.0 |
| 55°   | 519.7 | 541.7 | 555.6 | 571.9 | 578.8 | 579.3 |
| 57.5° | 522.1 | 537.1 | 546.4 | 553.9 | 574.7 | 574.7 |
| 60°   | 527.8 | 533.1 | 538.3 | 542.4 | 569.5 | 570.0 |
| 62.5° | 537.1 | 529.0 | 527.8 | 531.9 | 566.6 | 564.4 |
| 65°   | 551.7 | 523.2 | 514.6 | 518.5 | 563.7 | 556.8 |
| 67.5° | 571.3 | 514.6 | 497.8 | 500.7 | 561.5 | 546.4 |
| 70°   | 589.3 | 500.7 | 477.0 | 474.1 | 539.5 | 512.9 |
| 72.5° | 591.0 | 484.5 | 448.0 | 439.4 | 468.9 | 443.3 |
| 75°   | 562.0 | 473.4 | 416.2 | 390.6 | 387.2 | 383.8 |
| 77.5° | 506.5 | 467.0 | 379.1 | 339.1 | 332.2 | 334.5 |
| 80°   | 423.8 | 443.3 | 334.5 | 287.1 | 324.7 | 320.7 |
| 82.5° | 316.6 | 391.3 | 284.2 | 254.1 | 253.4 | 224.1 |
| 85°   | 176.0 | 305.1 | 231.5 | 190.4 | 132.6 | 128.4 |
| 87.5° | 49.3  | 169.6 | 162.1 | 107.7 | 73.5  | 76.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)