

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: P268556

Luminaire Tested: **GAN-AF-05-LED-U-T4FT-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-T4FT-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28524.8 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

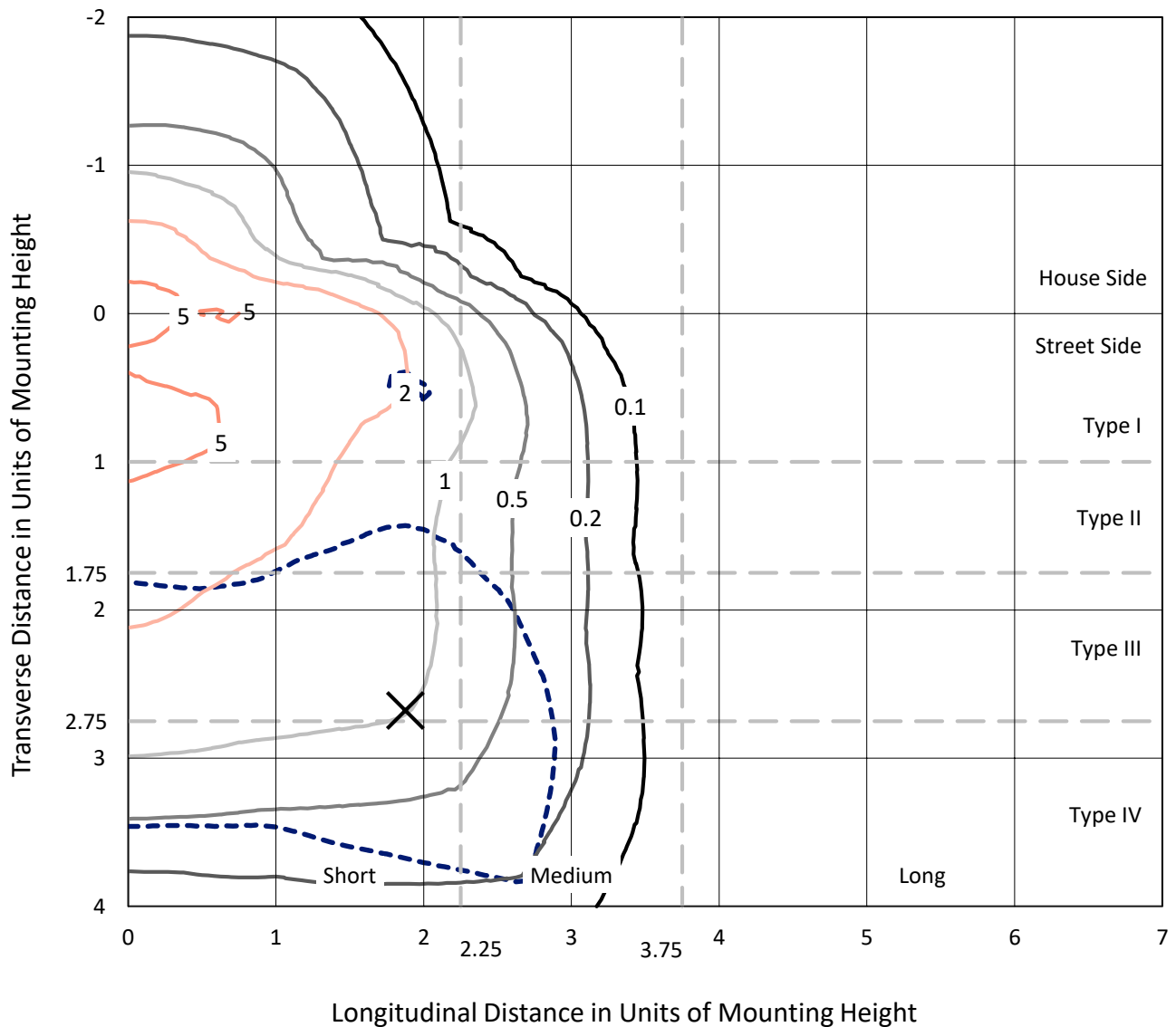


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### Iso-Footcandle Lines of Horizontal Illumination

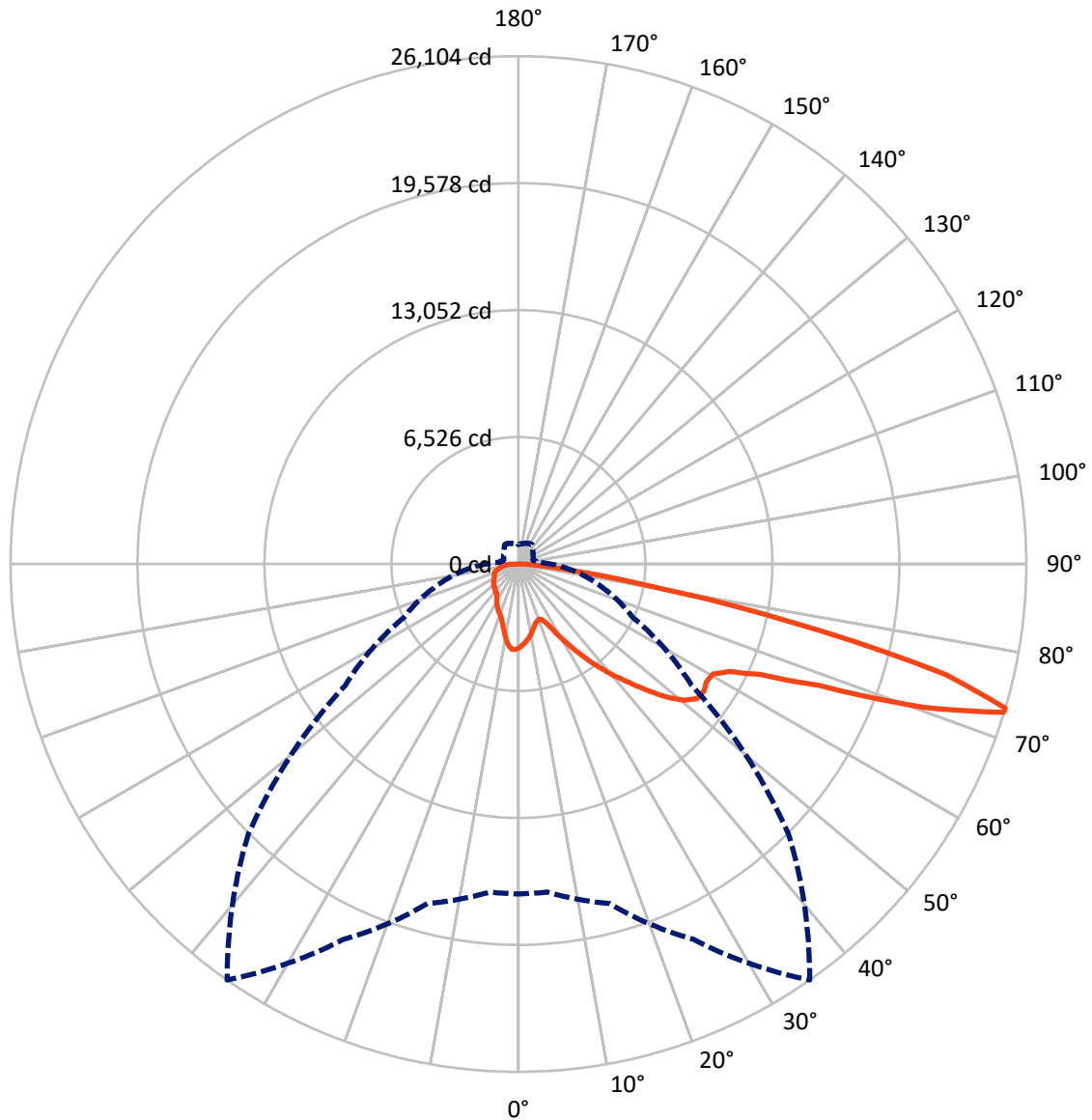
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5440.5   | 0.0    | 5440.5  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 23084.3  | 0.0    | 23084.3 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 28524.8  | 0.0    | 28524.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 389.8   | 1.4       |
| 10°-20°   | 972.8   | 3.4       |
| 20°-30°   | 1572.6  | 5.5       |
| 30°-40°   | 2637.0  | 9.2       |
| 40°-50°   | 4064.9  | 14.3      |
| 50°-60°   | 5453.5  | 19.1      |
| 60°-70°   | 7265.1  | 25.5      |
| 70°-80°   | 5541.1  | 19.4      |
| 80°-90°   | 628.1   | 2.2       |
| 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°    | 28524.8 | 100.0     |
| 0°-180°   | 28524.8 | 100.0     |

**Coefficient of Utilization**



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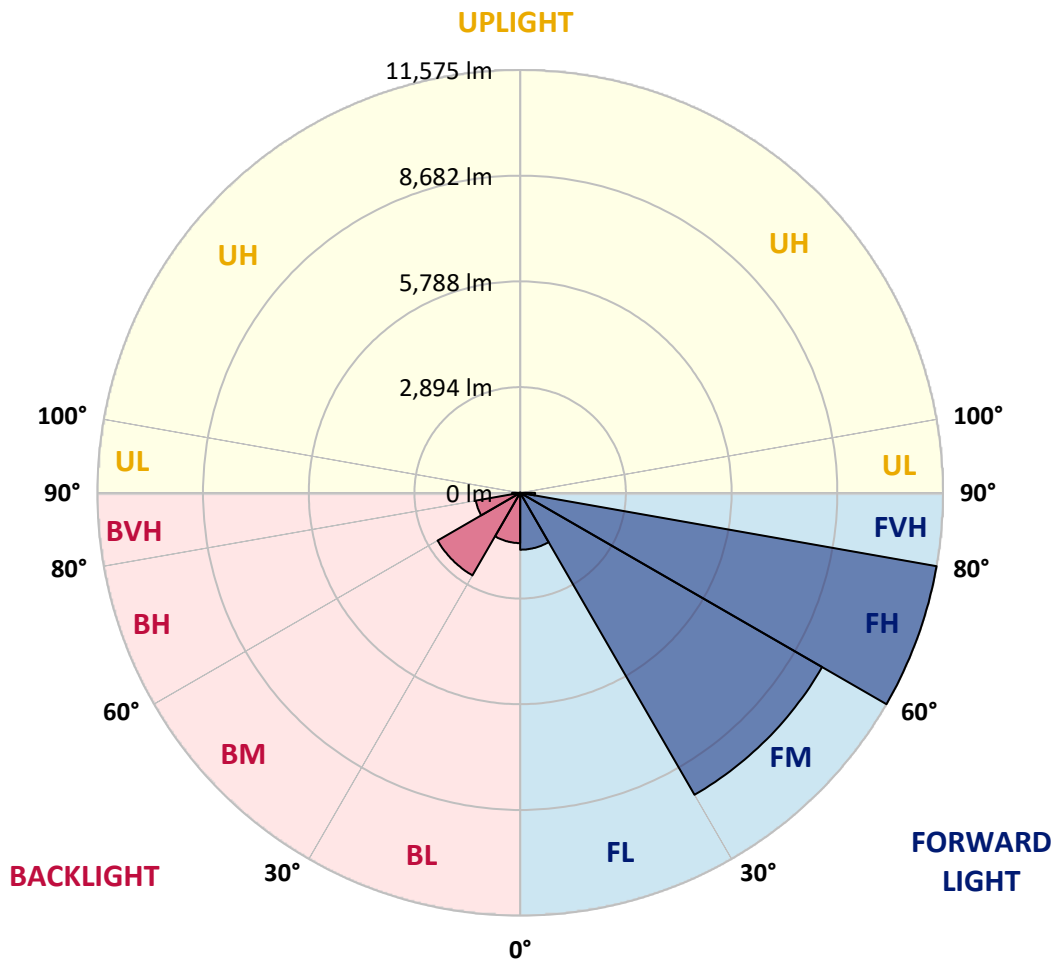
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1558.4  | 5.5       |                         |      |          |
| FM (30°-60°)   | 9544.6  | 33.5      |                         |      |          |
| FH (60°-80°)   | 11575.4 | 40.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 406.0   | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 1376.7  | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2610.8  | 9.2       | B3/5000                 |      |          |
| BH (60°-80°)   | 1230.9  | 4.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 222.1   | 0.8       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2  | 4305.2 |
| 2.5°  | 4135.3  | 4143.6  | 4134.1  | 4146.3  | 4166.9  | 4188.8  | 4203.9  | 4225.8  | 4250.5  | 4284.7  | 4292.9 |
| 5°    | 3941.0  | 3953.3  | 3953.3  | 3975.2  | 4014.9  | 4050.5  | 4083.3  | 4119.0  | 4171.0  | 4229.8  | 4253.3 |
| 7.5°  | 3727.2  | 3734.1  | 3746.4  | 3779.3  | 3836.8  | 3887.4  | 3934.0  | 3991.6  | 4062.9  | 4140.8  | 4182.0 |
| 10°   | 3469.8  | 3479.2  | 3498.4  | 3545.0  | 3623.1  | 3693.0  | 3760.0  | 3839.5  | 3929.9  | 4027.2  | 4079.3 |
| 12.5° | 3287.4  | 3284.8  | 3292.9  | 3327.2  | 3395.8  | 3480.7  | 3577.9  | 3679.3  | 3790.2  | 3903.9  | 3966.9 |
| 15°   | 3225.9  | 3210.8  | 3179.3  | 3171.0  | 3208.0  | 3292.9  | 3405.4  | 3530.0  | 3662.8  | 3799.8  | 3878.0 |
| 17.5° | 3264.3  | 3238.2  | 3152.0  | 3088.9  | 3083.4  | 3147.8  | 3267.0  | 3406.7  | 3560.2  | 3727.2  | 3824.4 |
| 20°   | 3505.4  | 3443.7  | 3231.4  | 3084.8  | 3034.1  | 3065.6  | 3169.7  | 3317.7  | 3498.4  | 3720.4  | 3845.0 |
| 22.5° | 4082.0  | 3991.6  | 3540.8  | 3268.4  | 3097.1  | 3058.8  | 3136.8  | 3294.4  | 3505.4  | 3805.3  | 3964.2 |
| 25°   | 4921.6  | 4792.9  | 4072.5  | 3725.9  | 3372.4  | 3168.3  | 3186.2  | 3347.9  | 3602.6  | 4002.6  | 4194.4 |
| 27.5° | 5584.7  | 5501.1  | 4766.9  | 4371.1  | 3873.9  | 3464.3  | 3346.5  | 3482.0  | 3801.2  | 4325.8  | 4521.7 |
| 30°   | 5979.2  | 5928.5  | 5509.3  | 5102.6  | 4513.4  | 3935.5  | 3653.2  | 3734.1  | 4112.1  | 4773.8  | 4935.4 |
| 32.5° | 6436.6  | 6406.5  | 6201.1  | 5827.1  | 5203.9  | 4554.5  | 4139.5  | 4110.7  | 4528.5  | 5312.0  | 5386.1 |
| 35°   | 6910.7  | 6901.0  | 6780.4  | 6512.1  | 5945.0  | 5371.0  | 4784.7  | 4590.2  | 4982.0  | 5871.0  | 5824.4 |
| 37.5° | 7351.6  | 7335.3  | 7265.4  | 7109.2  | 6720.2  | 6247.6  | 5442.2  | 5081.9  | 5470.9  | 6405.2  | 6198.3 |
| 40°   | 8163.9  | 8035.2  | 7795.5  | 7677.8  | 7503.7  | 6985.9  | 5964.0  | 5540.8  | 5977.9  | 6914.8  | 6521.6 |
| 42.5° | 9154.4  | 8944.9  | 8498.2  | 8336.6  | 8311.9  | 7568.1  | 6320.2  | 5986.0  | 6488.7  | 7420.2  | 6839.4 |
| 45°   | 9933.7  | 9736.5  | 9351.6  | 9147.5  | 9237.9  | 8095.5  | 6677.8  | 6461.4  | 7014.8  | 7950.3  | 7166.8 |
| 47.5° | 10765.3 | 10455.7 | 9946.2  | 10007.7 | 10204.9 | 8594.2  | 7042.2  | 6972.3  | 7591.4  | 8543.4  | 7573.6 |
| 50°   | 10795.4 | 10558.4 | 10335.1 | 10703.7 | 11010.4 | 9052.9  | 7498.3  | 7507.9  | 8296.8  | 9290.0  | 8114.7 |
| 52.5° | 10169.4 | 10118.7 | 10473.5 | 11052.9 | 11495.3 | 9416.0  | 8017.5  | 8061.3  | 9199.5  | 10147.4 | 8709.2 |
| 55°   | 9950.3  | 9892.7  | 10302.2 | 10930.9 | 11561.0 | 9716.0  | 8580.4  | 8659.9  | 10291.3 | 11051.6 | 9288.7 |
| 57.5° | 10484.5 | 10357.1 | 10384.4 | 10873.4 | 11400.7 | 10044.8 | 9194.2  | 9354.4  | 11477.6 | 11841.8 | 9661.2 |
| 60°   | 11977.6 | 11704.9 | 11187.1 | 11174.8 | 11487.2 | 10537.8 | 9903.6  | 10099.6 | 12710.4 | 12220.0 | 9515.9 |
| 62.5° | 14071.9 | 13799.4 | 12829.6 | 12198.1 | 12151.6 | 11351.5 | 10774.8 | 10826.9 | 13422.7 | 11707.7 | 8629.7 |
| 65°   | 16338.9 | 16095.1 | 15011.7 | 14119.9 | 13689.8 | 12699.3 | 11787.1 | 11151.5 | 13189.9 | 10298.2 | 7079.2 |
| 67.5° | 19090.9 | 18829.3 | 17897.8 | 17074.5 | 16660.9 | 14874.7 | 12498.1 | 10840.6 | 11711.8 | 7977.7  | 5088.8 |
| 70°   | 21015.5 | 20748.3 | 20381.3 | 21048.4 | 22060.5 | 18012.9 | 12589.8 | 9576.2  | 8747.5  | 5302.4  | 3063.0 |
| 72.5° | 18504.6 | 18380.0 | 19049.7 | 21859.3 | 26075.6 | 19917.0 | 11380.3 | 6972.3  | 5080.5  | 2814.8  | 1772.5 |
| 73°   | 16954.0 | 16926.7 | 18069.0 | 21290.8 | 26104.2 | 19623.7 | 10850.2 | 6480.6  | 4357.3  | 2490.3  | 1620.5 |
| 75°   | 7655.9  | 7876.3  | 10380.4 | 16262.2 | 22679.8 | 16170.5 | 7636.6  | 3717.6  | 2461.5  | 1720.4  | 1223.2 |
| 77.5° | 1839.6  | 1916.4  | 3247.8  | 7722.9  | 14322.7 | 9636.6  | 3460.1  | 1838.3  | 1573.9  | 1215.0  | 893.2  |
| 80°   | 783.5   | 809.6   | 1250.6  | 2853.2  | 6743.5  | 3880.7  | 1594.4  | 1231.4  | 1088.9  | 847.9   | 625.9  |
| 82.5° | 435.6   | 462.9   | 709.5   | 1294.5  | 2721.8  | 1323.3  | 972.5   | 857.5   | 716.4   | 511.0   | 406.8  |
| 85°   | 246.6   | 261.6   | 415.0   | 723.2   | 1153.3  | 531.4   | 582.1   | 569.9   | 404.1   | 263.1   | 200.1  |
| 87.5° | 116.4   | 126.0   | 200.1   | 335.5   | 452.0   | 208.1   | 295.9   | 326.1   | 253.4   | 160.3   | 104.2  |
| 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°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 | 4305.2 |
| 2.5°  | 4302.5 | 4327.1 | 4355.9 | 4371.1 | 4384.7 | 4401.2 | 4417.7 | 4417.7 | 4420.3 | 4421.6 |
| 5°    | 4272.3 | 4323.2 | 4368.3 | 4387.4 | 4391.5 | 4391.5 | 4387.4 | 4365.6 | 4346.4 | 4354.7 |
| 7.5°  | 4209.4 | 4283.4 | 4321.7 | 4314.9 | 4262.7 | 4202.5 | 4151.8 | 4090.3 | 4058.7 | 4053.2 |
| 10°   | 4119.0 | 4203.9 | 4210.7 | 4142.3 | 4013.4 | 3884.7 | 3777.9 | 3673.8 | 3624.5 | 3612.2 |
| 12.5° | 4018.9 | 4097.1 | 4053.2 | 3912.2 | 3705.2 | 3517.7 | 3381.9 | 3276.6 | 3229.9 | 3217.6 |
| 15°   | 3938.2 | 3991.6 | 3880.7 | 3658.7 | 3398.5 | 3199.9 | 3087.6 | 3009.4 | 2976.5 | 2967.0 |
| 17.5° | 3895.7 | 3906.6 | 3703.9 | 3403.9 | 3127.3 | 2961.5 | 2891.6 | 2854.6 | 2842.3 | 2835.5 |
| 20°   | 3916.3 | 3839.5 | 3535.5 | 3167.0 | 2905.4 | 2788.9 | 2772.4 | 2762.8 | 2760.1 | 2756.0 |
| 22.5° | 4018.9 | 3819.1 | 3380.6 | 2942.3 | 2710.8 | 2660.2 | 2673.8 | 2672.5 | 2669.8 | 2667.0 |
| 25°   | 4202.5 | 3836.8 | 3229.9 | 2728.6 | 2547.9 | 2536.9 | 2561.5 | 2561.5 | 2550.6 | 2550.6 |
| 27.5° | 4445.1 | 3873.9 | 3061.6 | 2525.9 | 2399.9 | 2401.3 | 2420.5 | 2415.0 | 2402.6 | 2394.4 |
| 30°   | 4740.9 | 3897.0 | 2864.2 | 2343.7 | 2261.6 | 2256.1 | 2261.6 | 2238.2 | 2201.2 | 2198.5 |
| 32.5° | 5043.7 | 3868.3 | 2635.4 | 2182.2 | 2115.0 | 2102.7 | 2098.5 | 2065.7 | 2023.3 | 2010.9 |
| 35°   | 5317.5 | 3762.8 | 2402.6 | 2053.3 | 1975.3 | 1947.9 | 1967.0 | 1956.1 | 1917.7 | 1908.1 |
| 37.5° | 5517.6 | 3567.0 | 2193.0 | 1939.6 | 1875.2 | 1868.5 | 1880.7 | 1884.9 | 1839.6 | 1830.0 |
| 40°   | 5651.7 | 3301.2 | 2013.6 | 1843.7 | 1856.1 | 1830.0 | 1789.0 | 1760.1 | 1746.5 | 1742.4 |
| 42.5° | 5760.0 | 3024.6 | 1862.9 | 1798.5 | 1860.2 | 1784.8 | 1695.8 | 1649.3 | 1673.9 | 1684.9 |
| 45°   | 5884.6 | 2754.7 | 1737.0 | 1742.4 | 1839.6 | 1732.8 | 1631.4 | 1586.2 | 1595.7 | 1598.5 |
| 47.5° | 6055.8 | 2426.0 | 1601.3 | 1652.0 | 1771.2 | 1697.2 | 1591.6 | 1527.3 | 1482.2 | 1461.6 |
| 50°   | 6292.8 | 2036.8 | 1460.3 | 1550.7 | 1704.1 | 1671.1 | 1530.1 | 1461.6 | 1378.0 | 1358.9 |
| 52.5° | 6457.2 | 1673.9 | 1343.8 | 1465.7 | 1643.8 | 1619.1 | 1480.8 | 1391.7 | 1304.1 | 1287.6 |
| 55°   | 6368.2 | 1390.3 | 1242.4 | 1371.2 | 1564.3 | 1554.7 | 1439.7 | 1320.5 | 1252.0 | 1238.4 |
| 57.5° | 5923.1 | 1210.8 | 1164.4 | 1282.2 | 1467.0 | 1499.9 | 1384.8 | 1260.2 | 1210.8 | 1201.4 |
| 60°   | 5073.7 | 1098.5 | 1115.1 | 1221.9 | 1387.6 | 1445.2 | 1330.1 | 1227.4 | 1194.4 | 1187.6 |
| 62.5° | 3936.8 | 1023.2 | 1078.1 | 1178.0 | 1326.0 | 1406.7 | 1299.9 | 1223.2 | 1210.8 | 1202.7 |
| 65°   | 2820.4 | 963.0  | 1038.4 | 1134.2 | 1269.8 | 1371.2 | 1289.0 | 1217.7 | 1220.4 | 1213.6 |
| 67.5° | 1916.4 | 909.5  | 990.4  | 1085.0 | 1215.0 | 1339.6 | 1273.8 | 1198.6 | 1232.8 | 1224.6 |
| 70°   | 1341.0 | 857.5  | 934.1  | 1021.9 | 1146.5 | 1295.8 | 1246.5 | 1169.9 | 1167.1 | 1134.2 |
| 72.5° | 1046.5 | 789.0  | 857.5  | 934.1  | 1058.8 | 1234.2 | 1191.7 | 1105.5 | 1060.2 | 1026.0 |
| 73°   | 998.6  | 772.5  | 838.3  | 915.1  | 1039.7 | 1219.1 | 1176.7 | 1087.6 | 1037.0 | 1005.5 |
| 75°   | 826.0  | 701.3  | 761.7  | 830.2  | 957.6  | 1147.9 | 1102.7 | 1006.8 | 942.4  | 923.3  |
| 77.5° | 649.3  | 600.0  | 657.5  | 719.2  | 843.8  | 1043.8 | 993.0  | 901.3  | 865.6  | 849.3  |
| 80°   | 480.9  | 497.2  | 548.0  | 602.8  | 731.5  | 932.8  | 887.6  | 795.9  | 954.8  | 915.1  |
| 82.5° | 338.3  | 376.7  | 423.3  | 472.6  | 613.6  | 824.6  | 769.8  | 675.3  | 698.6  | 580.8  |
| 85°   | 200.1  | 246.6  | 290.4  | 332.8  | 442.4  | 683.5  | 635.6  | 538.4  | 441.1  | 420.5  |
| 87.5° | 116.4  | 137.0  | 149.3  | 193.1  | 304.0  | 515.1  | 448.0  | 398.6  | 228.8  | 154.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)