

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: P318639

Luminaire Tested: **GAN-SA5B-727-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 24030 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

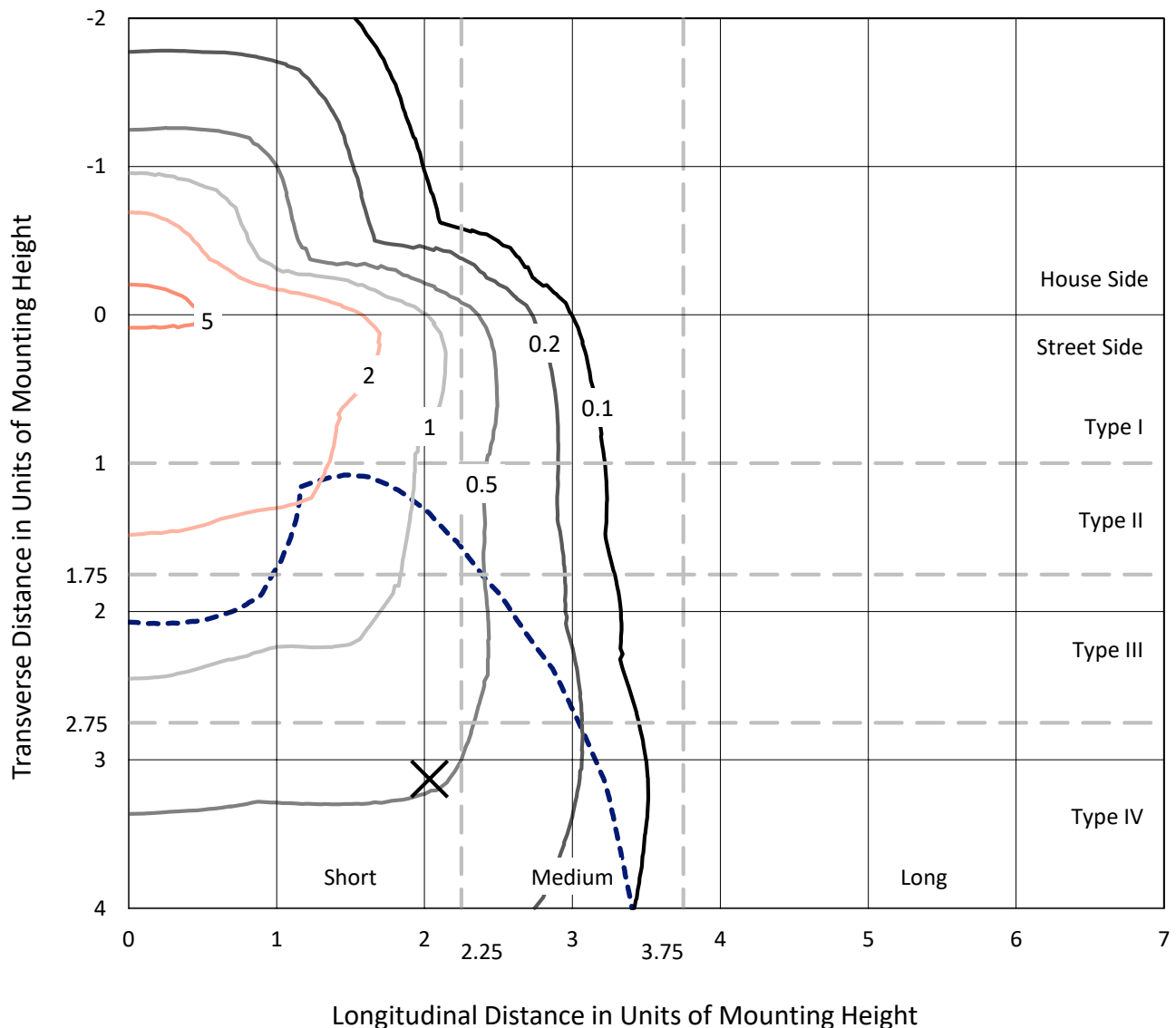
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

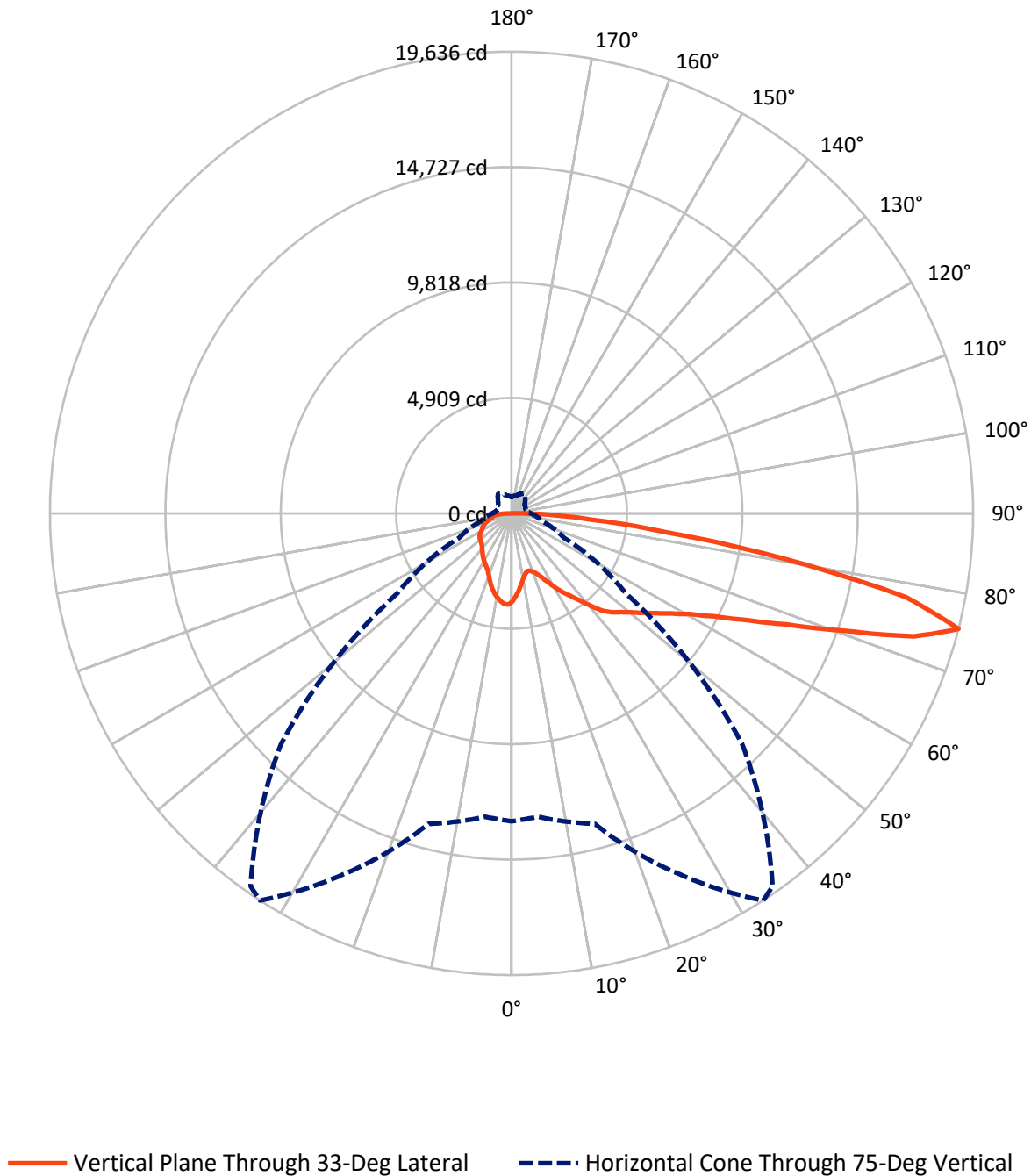
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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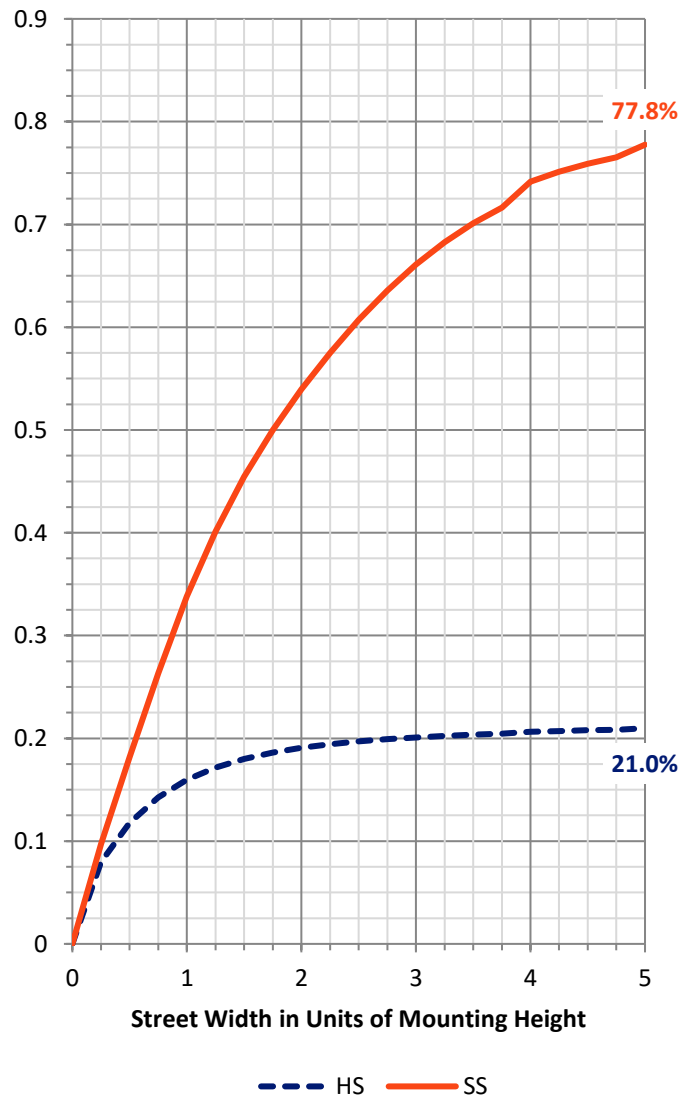
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5159.9   | 0.0    | 5159.9  |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 18870.1  | 0.0    | 18870.1 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 24030.0  | 0.0    | 24030.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 339.7   | 1.4       |
| 10°-20°   | 920.0   | 3.8       |
| 20°-30°   | 1502.5  | 6.3       |
| 30°-40°   | 2237.6  | 9.3       |
| 40°-50°   | 3209.3  | 13.4      |
| 50°-60°   | 4405.9  | 18.3      |
| 60°-70°   | 5516.0  | 23.0      |
| 70°-80°   | 4990.0  | 20.8      |
| 80°-90°   | 909.0   | 3.8       |
| 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°    | 24030.0 | 100.0     |
| 0°-180°   | 24030.0 | 100.0     |

**Coefficient of Utilization**



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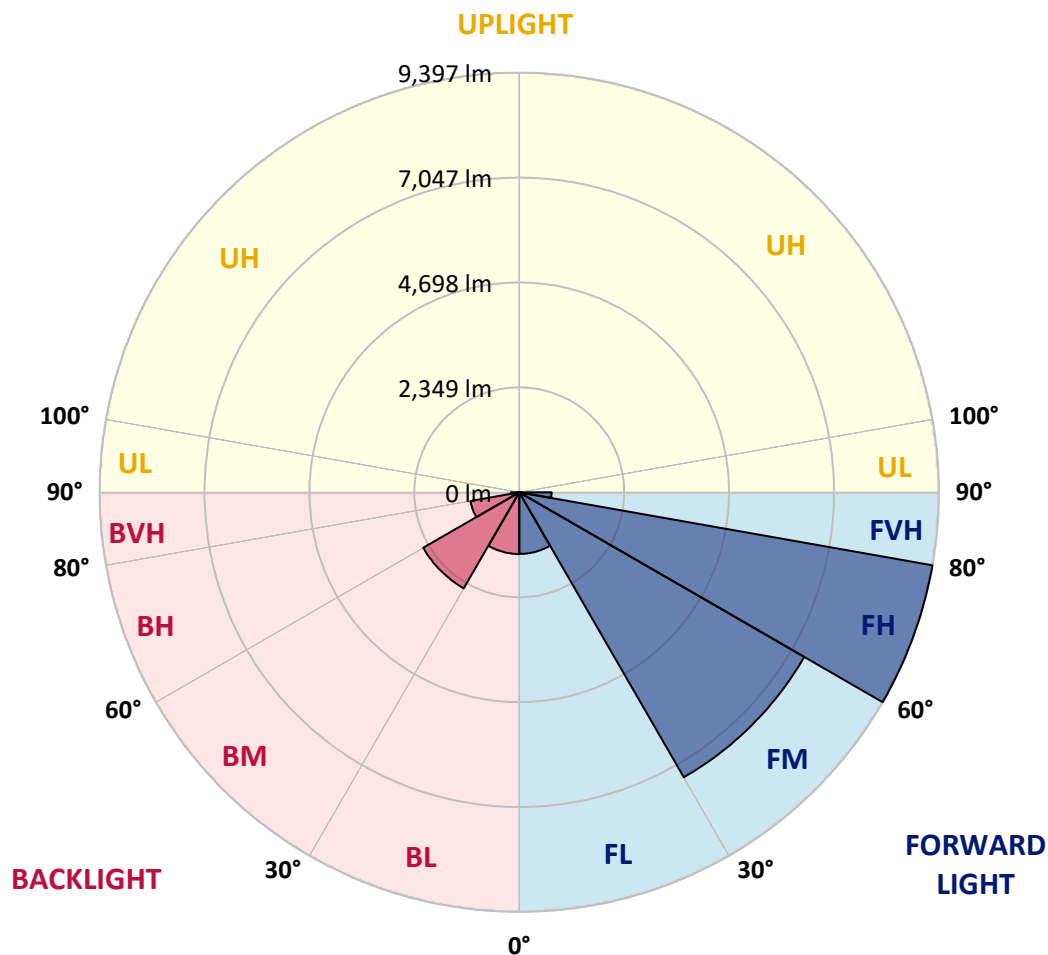
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1380.2 | 5.7       |                         |      |          |
| FM   | (30°-60°)   | 7369.5 | 30.7      |                         |      |          |
| FH   | (60°-80°)   | 9396.6 | 39.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 723.9  | 3.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1382.1 | 5.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2483.3 | 10.3      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1109.5 | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 185.1  | 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°     | 33°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3756.0  | 3756.0  | 3756.0  | 3756.0  | 3756.0  | 3756.0  | 3756.0  | 3756.0  | 3756.0 | 3756.0 | 3756.0 |
| 2.5°  | 3487.9  | 3474.6  | 3499.5  | 3502.9  | 3524.4  | 3532.7  | 3562.6  | 3609.1  | 3647.3 | 3691.3 | 3731.1 |
| 5°    | 3171.7  | 3162.5  | 3197.4  | 3222.3  | 3269.6  | 3289.5  | 3360.1  | 3458.9  | 3546.8 | 3646.5 | 3736.9 |
| 7.5°  | 2871.2  | 2866.2  | 2905.2  | 2961.7  | 3016.4  | 3043.8  | 3165.9  | 3309.5  | 3456.4 | 3617.4 | 3756.0 |
| 10°   | 2618.0  | 2616.4  | 2653.7  | 2709.3  | 2789.8  | 2820.5  | 2978.3  | 3167.5  | 3373.4 | 3595.0 | 3788.4 |
| 12.5° | 2476.1  | 2481.9  | 2499.3  | 2545.8  | 2620.5  | 2651.2  | 2826.4  | 3048.8  | 3303.6 | 3587.5 | 3835.7 |
| 15°   | 2510.9  | 2520.1  | 2490.2  | 2488.5  | 2541.6  | 2565.7  | 2730.1  | 2964.1  | 3253.8 | 3600.0 | 3904.6 |
| 17.5° | 2659.5  | 2661.2  | 2582.3  | 2532.5  | 2564.9  | 2577.3  | 2700.2  | 2916.0  | 3224.8 | 3628.2 | 3990.9 |
| 20°   | 2868.7  | 2864.5  | 2725.1  | 2642.1  | 2659.5  | 2662.8  | 2742.5  | 2916.8  | 3222.3 | 3677.2 | 4103.0 |
| 22.5° | 3145.9  | 3115.2  | 2927.6  | 2814.7  | 2810.6  | 2805.6  | 2851.3  | 2978.3  | 3258.8 | 3756.9 | 4236.6 |
| 25°   | 3507.8  | 3478.8  | 3220.6  | 3066.2  | 3033.0  | 3020.6  | 3027.2  | 3109.4  | 3331.0 | 3842.4 | 4386.0 |
| 27.5° | 3910.4  | 3859.8  | 3610.8  | 3392.5  | 3323.6  | 3306.1  | 3266.3  | 3294.5  | 3409.9 | 3924.5 | 4563.7 |
| 30°   | 4247.4  | 4220.0  | 4002.6  | 3743.6  | 3662.2  | 3637.3  | 3532.7  | 3502.0  | 3523.6 | 4036.6 | 4787.8 |
| 32.5° | 4435.8  | 4417.6  | 4285.6  | 4076.4  | 4000.9  | 3966.0  | 3818.3  | 3756.9  | 3706.2 | 4213.4 | 5091.6 |
| 35°   | 4664.1  | 4652.5  | 4572.8  | 4420.9  | 4308.8  | 4272.3  | 4157.8  | 4093.9  | 3963.5 | 4456.6 | 5484.2 |
| 37.5° | 4954.6  | 4942.2  | 4943.8  | 4821.0  | 4687.4  | 4653.3  | 4577.8  | 4510.5  | 4297.2 | 4776.2 | 5910.9 |
| 40°   | 5283.3  | 5259.3  | 5250.1  | 5244.3  | 5159.7  | 5140.6  | 5100.7  | 5009.4  | 4715.6 | 5158.0 | 6331.7 |
| 42.5° | 5778.1  | 5692.6  | 5509.9  | 5578.8  | 5662.7  | 5652.7  | 5685.1  | 5553.9  | 5180.4 | 5609.5 | 6742.6 |
| 45°   | 6255.3  | 6115.1  | 5799.6  | 5814.6  | 5998.0  | 6053.6  | 6296.0  | 6203.0  | 5684.3 | 6104.3 | 7167.6 |
| 47.5° | 6472.8  | 6366.6  | 6098.5  | 6099.3  | 6281.1  | 6396.4  | 6927.7  | 6861.3  | 6213.8 | 6666.2 | 7686.4 |
| 50°   | 6716.0  | 6609.8  | 6369.1  | 6459.5  | 6618.1  | 6740.9  | 7537.8  | 7503.7  | 6717.7 | 7281.3 | 8308.1 |
| 52.5° | 6981.6  | 6801.5  | 6648.8  | 6810.6  | 7033.1  | 7175.9  | 8148.7  | 8055.7  | 7180.0 | 7900.5 | 9022.8 |
| 55°   | 6985.0  | 6936.0  | 7052.2  | 7170.9  | 7503.7  | 7678.9  | 8788.7  | 8543.0  | 7556.9 | 8509.0 | 9604.6 |
| 57.5° | 7382.6  | 7302.9  | 7549.4  | 7604.2  | 8039.1  | 8236.7  | 9425.3  | 8967.1  | 7940.4 | 8975.4 | 9918.4 |
| 60°   | 7908.8  | 7840.8  | 8042.5  | 8186.9  | 8701.5  | 8965.5  | 10105.2 | 9402.9  | 8241.7 | 9327.4 | 9903.5 |
| 62.5° | 8817.7  | 8740.5  | 8738.0  | 8940.6  | 9633.7  | 9940.8  | 10868.0 | 9830.4  | 8361.2 | 9397.1 | 9481.0 |
| 65°   | 10148.3 | 10025.5 | 9793.9  | 9890.2  | 10921.1 | 11227.4 | 11720.5 | 10140.0 | 8203.5 | 9023.6 | 8392.7 |
| 67.5° | 11443.2 | 11439.1 | 11154.4 | 11351.9 | 12621.1 | 12866.8 | 12691.6 | 10170.7 | 7711.3 | 7722.9 | 6462.0 |
| 70°   | 12734.0 | 12750.6 | 12702.4 | 13389.7 | 14917.8 | 15173.5 | 13725.9 | 9758.2  | 6604.8 | 5577.2 | 3871.4 |
| 72.5° | 13756.6 | 13752.4 | 13994.8 | 15767.0 | 17898.6 | 17841.3 | 14597.4 | 8508.1  | 4742.1 | 3010.6 | 1850.2 |
| 75°   | 13094.2 | 12949.8 | 13671.9 | 16944.0 | 19635.9 | 19356.2 | 13856.2 | 5934.9  | 2461.1 | 1370.4 | 996.1  |
| 77.5° | 8540.5  | 8677.5  | 9737.4  | 13997.3 | 17175.6 | 16835.3 | 10165.8 | 2769.1  | 1159.6 | 899.0  | 722.2  |
| 80°   | 3092.8  | 3237.2  | 4559.5  | 7928.7  | 11833.3 | 11777.7 | 5006.1  | 1138.0  | 784.4  | 679.0  | 526.3  |
| 82.5° | 1064.1  | 1117.3  | 1798.7  | 3521.1  | 6681.2  | 6930.2  | 1883.4  | 646.6   | 570.3  | 481.4  | 360.2  |
| 85°   | 417.5   | 478.1   | 822.6   | 1694.2  | 3370.0  | 3394.9  | 762.8   | 386.8   | 396.8  | 315.4  | 197.6  |
| 87.5° | 158.5   | 192.6   | 393.4   | 786.9   | 1538.9  | 1413.6  | 273.1   | 184.3   | 225.8  | 187.6  | 93.8   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 | 3756.0 |
| 2.5°  | 3761.8 | 3779.3 | 3815.8 | 3840.7 | 3867.3 | 3874.7 | 3878.0 | 3884.7 | 3891.3 | 3888.8 | 3889.7 |
| 5°    | 3785.1 | 3819.1 | 3878.0 | 3902.9 | 3914.6 | 3901.3 | 3875.6 | 3854.8 | 3839.9 | 3831.6 | 3829.1 |
| 7.5°  | 3823.3 | 3871.4 | 3934.5 | 3930.3 | 3903.8 | 3844.8 | 3778.4 | 3728.6 | 3687.1 | 3672.2 | 3663.9 |
| 10°   | 3873.9 | 3930.3 | 3974.3 | 3927.0 | 3849.8 | 3747.7 | 3648.1 | 3570.9 | 3508.7 | 3484.6 | 3480.4 |
| 12.5° | 3938.6 | 3995.9 | 4004.2 | 3903.8 | 3775.9 | 3636.5 | 3501.2 | 3399.1 | 3306.1 | 3276.2 | 3269.6 |
| 15°   | 4022.5 | 4076.4 | 4025.0 | 3863.1 | 3684.6 | 3497.0 | 3321.9 | 3183.3 | 3085.3 | 3048.8 | 3035.5 |
| 17.5° | 4110.5 | 4161.9 | 4029.1 | 3795.9 | 3565.1 | 3331.9 | 3111.9 | 2970.0 | 2857.9 | 2815.6 | 2810.6 |
| 20°   | 4215.9 | 4239.1 | 4011.7 | 3699.6 | 3400.8 | 3117.7 | 2886.1 | 2752.5 | 2692.7 | 2662.8 | 2659.5 |
| 22.5° | 4346.2 | 4321.3 | 3971.8 | 3569.3 | 3192.4 | 2870.3 | 2681.9 | 2619.7 | 2604.7 | 2598.1 | 2600.6 |
| 25°   | 4484.0 | 4407.6 | 3912.9 | 3399.1 | 2929.3 | 2623.0 | 2532.5 | 2549.9 | 2569.9 | 2567.4 | 2567.4 |
| 27.5° | 4635.9 | 4495.6 | 3822.4 | 3173.3 | 2637.9 | 2420.5 | 2431.2 | 2495.2 | 2525.0 | 2524.2 | 2523.4 |
| 30°   | 4831.0 | 4595.2 | 3707.1 | 2901.9 | 2365.7 | 2277.7 | 2343.3 | 2421.3 | 2462.0 | 2460.3 | 2461.1 |
| 32.5° | 5070.8 | 4704.8 | 3550.2 | 2598.9 | 2168.9 | 2172.3 | 2247.8 | 2325.0 | 2372.3 | 2368.2 | 2369.0 |
| 35°   | 5351.4 | 4827.6 | 3337.7 | 2300.1 | 2038.6 | 2088.4 | 2148.2 | 2202.2 | 2247.0 | 2241.2 | 2235.4 |
| 37.5° | 5656.9 | 4948.0 | 3055.5 | 2032.8 | 1932.4 | 2010.4 | 2060.2 | 2069.3 | 2090.1 | 2075.2 | 2064.4 |
| 40°   | 5947.4 | 5040.1 | 2691.9 | 1813.7 | 1825.3 | 1944.0 | 1976.4 | 1939.9 | 1902.5 | 1897.5 | 1882.6 |
| 42.5° | 6200.6 | 5070.8 | 2324.2 | 1638.5 | 1712.4 | 1874.3 | 1894.2 | 1817.8 | 1750.6 | 1719.1 | 1705.8 |
| 45°   | 6467.8 | 5081.6 | 1981.4 | 1491.6 | 1603.7 | 1812.0 | 1833.6 | 1731.5 | 1636.9 | 1568.8 | 1546.4 |
| 47.5° | 6817.3 | 5159.7 | 1714.9 | 1382.9 | 1520.7 | 1770.5 | 1801.2 | 1662.6 | 1539.8 | 1442.6 | 1421.9 |
| 50°   | 7274.7 | 5314.0 | 1498.3 | 1299.9 | 1466.7 | 1743.1 | 1778.0 | 1595.4 | 1460.1 | 1343.0 | 1322.3 |
| 52.5° | 7782.6 | 5456.0 | 1323.1 | 1232.6 | 1414.4 | 1695.0 | 1748.1 | 1547.2 | 1385.4 | 1250.9 | 1228.5 |
| 55°   | 8137.9 | 5347.2 | 1182.0 | 1162.9 | 1346.4 | 1626.1 | 1706.6 | 1506.6 | 1278.3 | 1161.3 | 1141.3 |
| 57.5° | 8206.0 | 4975.4 | 1074.9 | 1090.7 | 1264.2 | 1539.8 | 1642.7 | 1416.1 | 1220.2 | 1122.2 | 1101.5 |
| 60°   | 8020.0 | 4457.4 | 995.2  | 1024.3 | 1176.2 | 1431.0 | 1523.2 | 1352.2 | 1164.6 | 1080.7 | 1063.3 |
| 62.5° | 7552.7 | 3927.0 | 936.3  | 964.5  | 1094.0 | 1320.6 | 1448.5 | 1284.9 | 1108.1 | 1033.4 | 1016.0 |
| 65°   | 6608.9 | 3297.0 | 879.9  | 911.4  | 1017.7 | 1225.2 | 1381.2 | 1222.7 | 1052.5 | 995.2  | 978.6  |
| 67.5° | 4988.7 | 2469.4 | 826.7  | 855.0  | 949.6  | 1142.2 | 1308.2 | 1161.3 | 998.6  | 962.0  | 942.1  |
| 70°   | 2937.6 | 1546.4 | 766.1  | 796.0  | 878.2  | 1055.8 | 1230.1 | 1094.0 | 931.3  | 914.7  | 889.0  |
| 72.5° | 1367.1 | 930.5  | 697.3  | 726.3  | 788.6  | 940.5  | 1129.7 | 1006.0 | 851.6  | 815.1  | 780.3  |
| 75°   | 815.9  | 680.6  | 615.9  | 641.6  | 685.6  | 817.6  | 1003.5 | 916.4  | 776.1  | 728.0  | 691.4  |
| 77.5° | 610.1  | 520.4  | 526.3  | 553.7  | 589.3  | 715.5  | 889.0  | 845.8  | 718.0  | 680.6  | 655.7  |
| 80°   | 439.1  | 395.1  | 429.1  | 459.0  | 496.4  | 650.8  | 851.6  | 781.9  | 649.1  | 599.3  | 576.1  |
| 82.5° | 293.0  | 283.9  | 322.9  | 353.6  | 390.1  | 569.4  | 800.2  | 684.8  | 554.5  | 491.4  | 439.9  |
| 85°   | 161.9  | 171.0  | 217.5  | 230.8  | 262.3  | 400.9  | 655.7  | 550.3  | 417.5  | 336.2  | 321.2  |
| 87.5° | 67.2   | 78.9   | 117.0  | 112.9  | 139.5  | 239.1  | 431.6  | 332.0  | 265.6  | 198.4  | 154.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)