

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: P456842

Luminaire Tested: **GLAN-SA8A-827-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26572 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 244  
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



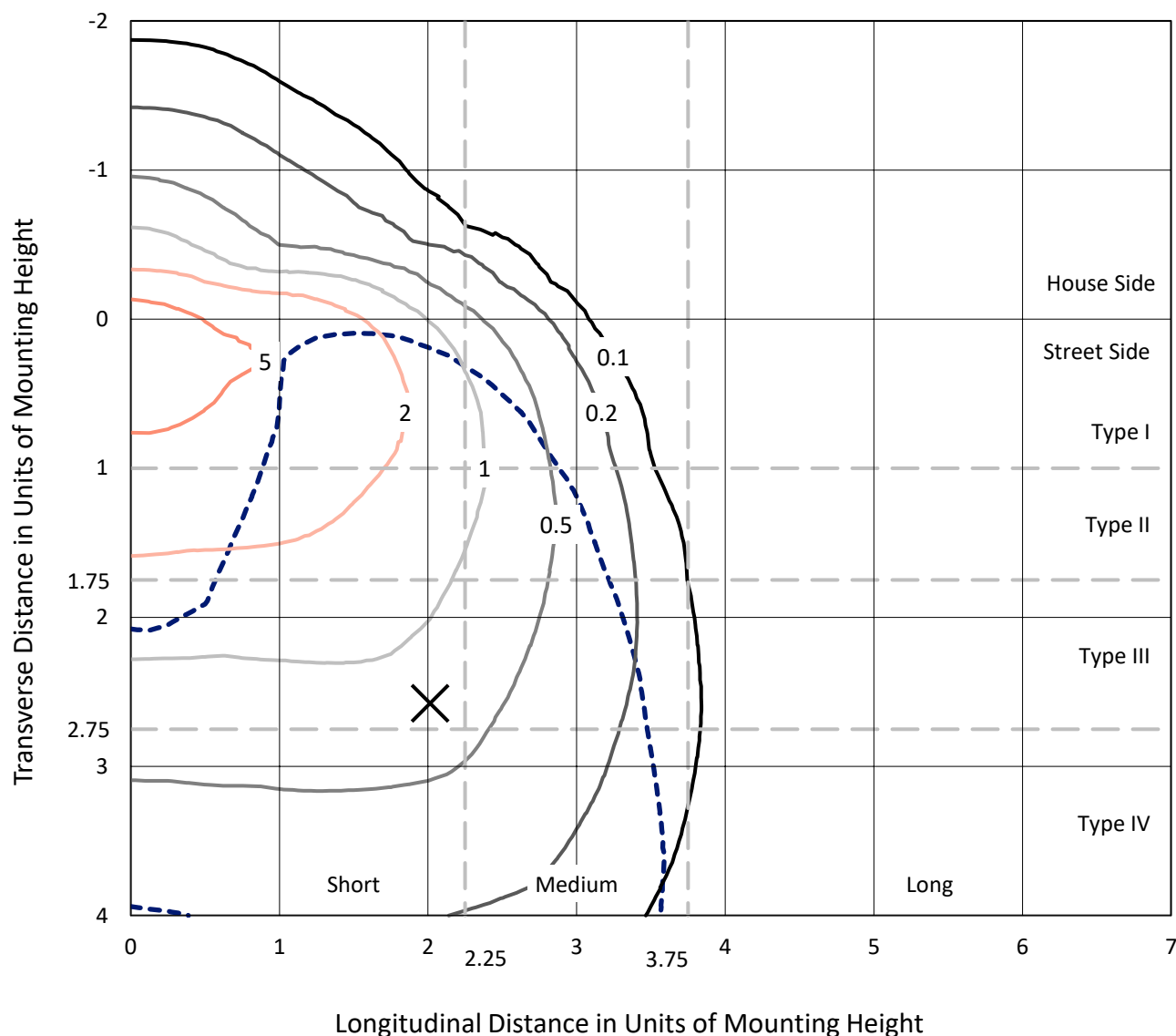
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



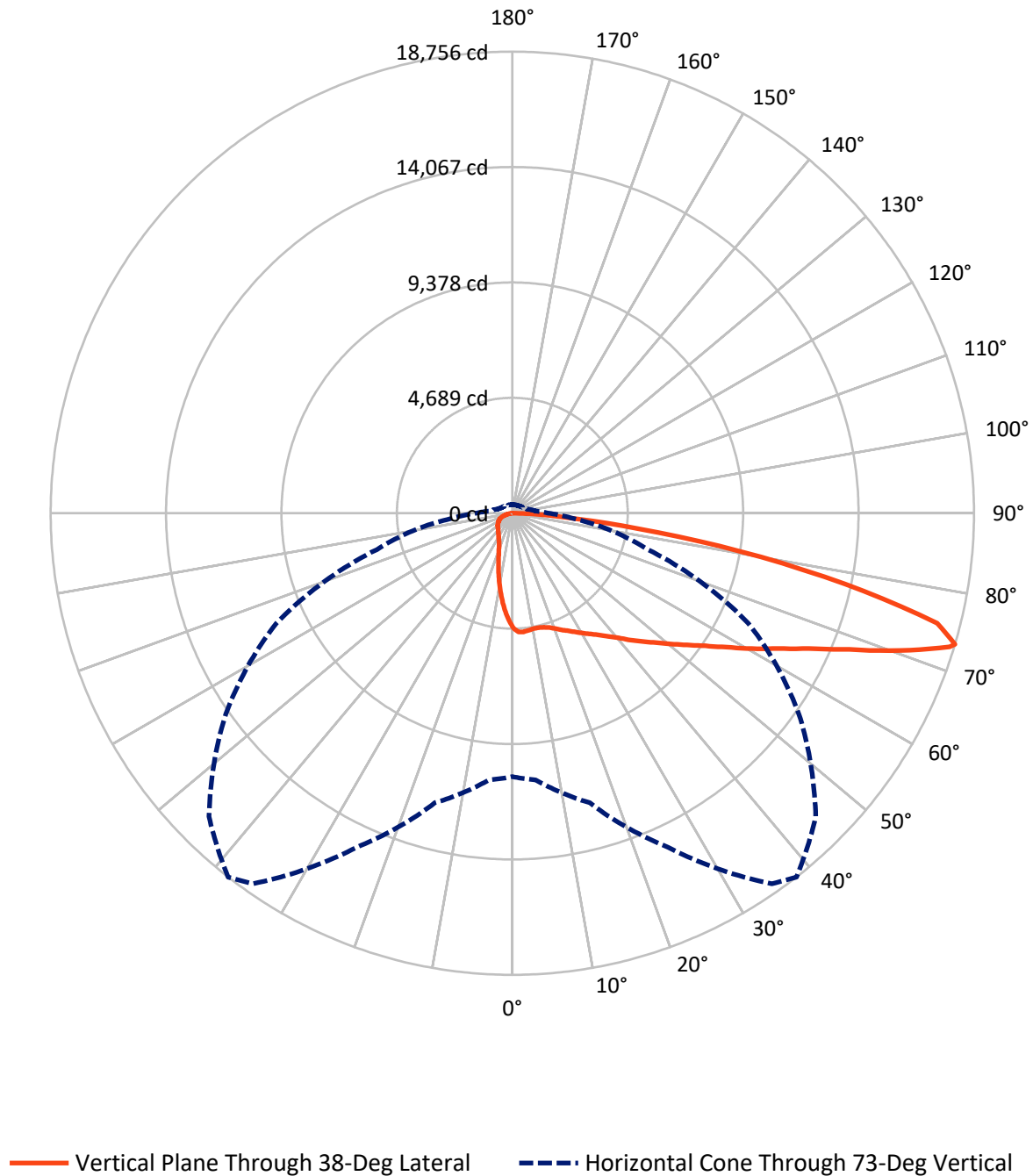
Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

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    | 3572.1   | 0.0    | 3572.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 22999.9  | 0.0    | 22999.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 26572.0  | 0.0    | 26572.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 407.5   | 1.5       |
| 10°-20°   | 1044.9  | 3.9       |
| 20°-30°   | 1627.2  | 6.1       |
| 30°-40°   | 2386.7  | 9.0       |
| 40°-50°   | 3540.3  | 13.3      |
| 50°-60°   | 5016.0  | 18.9      |
| 60°-70°   | 6362.9  | 23.9      |
| 70°-80°   | 5296.6  | 19.9      |
| 80°-90°   | 889.9   | 3.3       |
| 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°    | 26572.0 | 100.0     |
| 0°-180°   | 26572.0 | 100.0     |

**Coefficient of Utilization**



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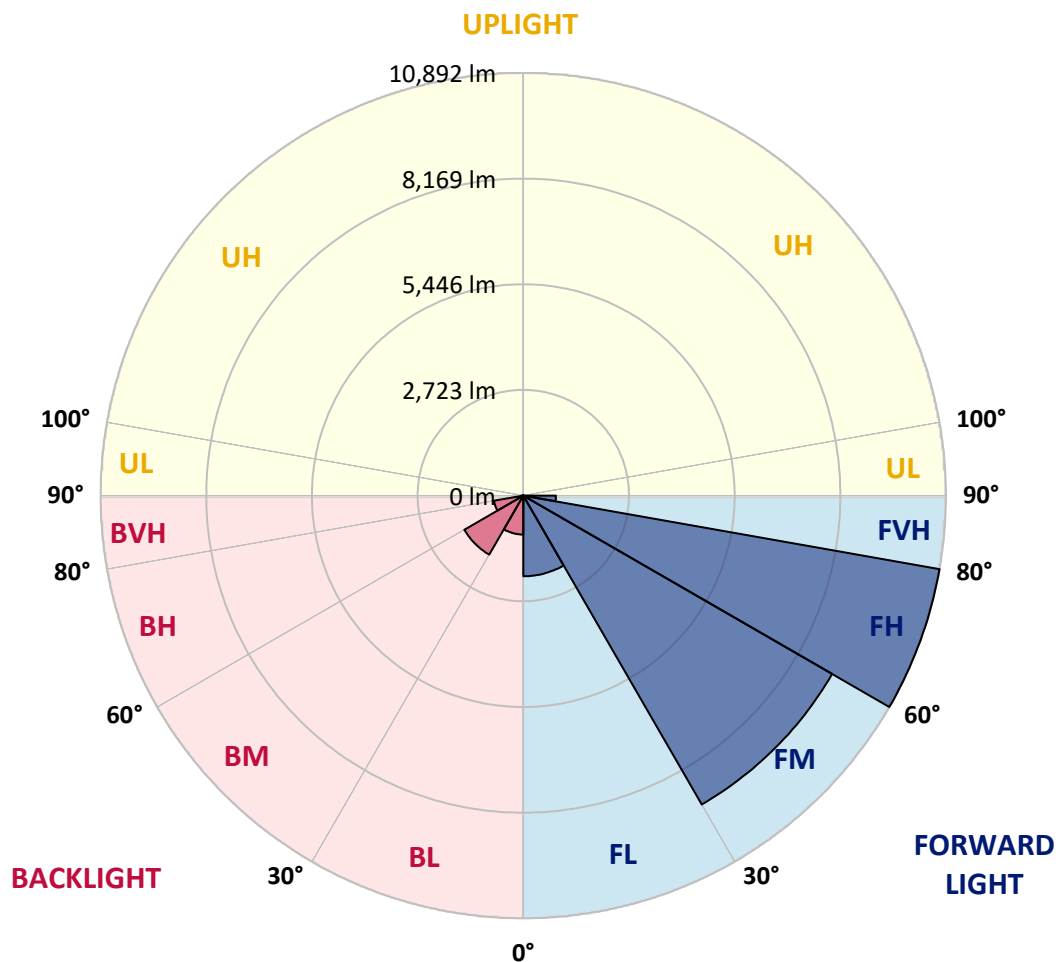
CATALOG NUMBER: GLAN-SA8A-827-U-SL4

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2077.2  | 7.8       |                         |      |          |
| FM   | (30°-60°)   | 9189.3  | 34.6      |                         |      |          |
| FH   | (60°-80°)   | 10891.8 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 841.7   | 3.2       |                         |      | G5       |
| BL   | (0°-30°)    | 1002.4  | 3.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1753.7  | 6.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 767.8   | 2.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 48.3    | 0.2       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3  | 4668.3 |
| 2.5°  | 4855.8  | 4879.8  | 4867.8  | 4851.3  | 4840.8  | 4830.3  | 4815.3  | 4771.8  | 4737.3  | 4699.8  | 4641.2 |
| 5°    | 4891.8  | 4906.8  | 4896.3  | 4875.3  | 4851.3  | 4840.8  | 4812.3  | 4755.3  | 4699.8  | 4636.7  | 4549.7 |
| 7.5°  | 4870.8  | 4876.8  | 4864.8  | 4839.3  | 4818.3  | 4798.8  | 4765.8  | 4702.8  | 4635.2  | 4558.7  | 4444.7 |
| 10°   | 4795.8  | 4818.3  | 4818.3  | 4797.3  | 4776.3  | 4765.8  | 4732.8  | 4672.8  | 4611.2  | 4524.2  | 4389.1 |
| 12.5° | 4734.3  | 4758.3  | 4777.8  | 4771.8  | 4770.3  | 4770.3  | 4744.8  | 4699.8  | 4627.7  | 4545.2  | 4384.6 |
| 15°   | 4692.3  | 4720.8  | 4762.8  | 4786.8  | 4801.8  | 4806.3  | 4795.8  | 4756.8  | 4683.3  | 4587.2  | 4402.7 |
| 17.5° | 4683.3  | 4717.8  | 4794.3  | 4846.8  | 4885.8  | 4884.3  | 4881.3  | 4827.3  | 4746.3  | 4647.2  | 4425.2 |
| 20°   | 4723.8  | 4768.8  | 4875.3  | 4957.9  | 5014.9  | 5004.4  | 4987.9  | 4917.3  | 4822.8  | 4711.8  | 4446.2 |
| 22.5° | 4845.3  | 4891.8  | 5008.9  | 5098.9  | 5154.4  | 5154.4  | 5104.9  | 5011.9  | 4911.3  | 4786.8  | 4474.7 |
| 25°   | 5019.4  | 5070.4  | 5194.9  | 5286.5  | 5312.0  | 5292.5  | 5243.0  | 5130.4  | 5014.9  | 4894.8  | 4534.7 |
| 27.5° | 5232.5  | 5294.0  | 5409.5  | 5486.1  | 5478.6  | 5463.5  | 5412.5  | 5268.5  | 5152.9  | 5043.4  | 4636.7 |
| 30°   | 5498.1  | 5543.1  | 5663.1  | 5681.1  | 5654.1  | 5651.1  | 5579.1  | 5435.0  | 5327.0  | 5243.0  | 4782.3 |
| 32.5° | 5748.7  | 5789.2  | 5885.2  | 5892.7  | 5844.7  | 5850.7  | 5783.2  | 5651.1  | 5589.6  | 5559.6  | 5026.9 |
| 35°   | 6014.3  | 6035.3  | 6117.8  | 6108.8  | 6077.3  | 6072.8  | 6045.8  | 5919.7  | 5939.2  | 5993.2  | 5373.5 |
| 37.5° | 6236.3  | 6278.4  | 6324.9  | 6332.4  | 6330.9  | 6345.9  | 6363.9  | 6303.9  | 6416.4  | 6586.0  | 5828.2 |
| 40°   | 6440.4  | 6476.4  | 6545.5  | 6569.5  | 6628.0  | 6658.0  | 6719.5  | 6721.0  | 6980.6  | 7259.7  | 6387.9 |
| 42.5° | 6578.5  | 6640.0  | 6769.0  | 6812.6  | 6955.1  | 7045.1  | 7136.7  | 7234.2  | 7610.9  | 7969.5  | 7048.1 |
| 45°   | 6698.5  | 6779.5  | 6994.1  | 7129.2  | 7322.7  | 7432.3  | 7625.9  | 7829.9  | 8371.6  | 8841.3  | 7718.9 |
| 47.5° | 6880.1  | 6952.1  | 7198.2  | 7436.8  | 7729.4  | 7855.4  | 8145.1  | 8449.7  | 9157.9  | 9672.6  | 8361.1 |
| 50°   | 7132.2  | 7175.7  | 7426.3  | 7814.9  | 8188.6  | 8350.6  | 8733.3  | 9172.9  | 9998.2  | 10493.4 | 8925.3 |
| 52.5° | 7454.8  | 7472.8  | 7672.4  | 8190.1  | 8682.3  | 8883.3  | 9390.5  | 9903.7  | 10733.5 | 11206.2 | 9372.5 |
| 55°   | 7835.9  | 7805.9  | 7962.0  | 8587.7  | 9246.5  | 9509.1  | 10053.8 | 10643.5 | 11560.3 | 11782.4 | 9698.1 |
| 57.5° | 8212.6  | 8166.1  | 8290.6  | 9070.9  | 9942.7  | 10259.3 | 10894.1 | 11405.8 | 12298.6 | 12321.1 | 9926.2 |
| 60°   | 8611.7  | 8577.2  | 8725.8  | 9638.1  | 10796.5 | 11171.7 | 11758.4 | 12196.6 | 13012.9 | 12696.3 | 9962.2 |
| 62.5° | 9021.4  | 8965.9  | 9177.4  | 10275.9 | 11758.4 | 12099.0 | 12667.7 | 13036.9 | 13713.6 | 12835.8 | 9615.6 |
| 65°   | 9419.0  | 9393.5  | 9720.6  | 11033.6 | 12853.8 | 13241.0 | 13793.2 | 14043.8 | 14274.9 | 12625.7 | 8755.8 |
| 67.5° | 9842.2  | 9893.2  | 10415.4 | 12045.0 | 14282.4 | 14768.5 | 15364.3 | 15128.7 | 14435.4 | 11630.9 | 7373.8 |
| 70°   | 10487.4 | 10520.4 | 11327.7 | 13370.0 | 16123.5 | 16710.3 | 16998.4 | 15514.3 | 13661.1 | 9741.7  | 5543.1 |
| 72.5° | 10765.0 | 10910.6 | 12142.6 | 14761.0 | 18215.3 | 18574.0 | 17547.6 | 14654.5 | 11380.3 | 6617.5  | 2912.6 |
| 73°   | 10703.5 | 10877.6 | 12180.1 | 14972.6 | 18378.9 | 18755.5 | 17430.5 | 14211.8 | 10579.0 | 5699.1  | 2496.9 |
| 75°   | 9936.7  | 10151.3 | 11692.4 | 14795.5 | 18060.8 | 17835.7 | 15548.8 | 12112.5 | 7148.7  | 2591.5  | 1137.4 |
| 77.5° | 7840.4  | 7902.0  | 9264.5  | 11947.5 | 14222.3 | 13805.2 | 11636.9 | 7570.3  | 2920.1  | 963.4   | 645.2  |
| 80°   | 3933.0  | 4159.6  | 5222.0  | 6844.1  | 9510.6  | 9374.0  | 7345.3  | 3580.3  | 1217.0  | 565.7   | 427.7  |
| 82.5° | 1892.2  | 2052.8  | 2543.5  | 3337.3  | 5255.0  | 5130.4  | 3637.4  | 1956.7  | 772.8   | 330.1   | 252.1  |
| 85°   | 1218.5  | 1338.5  | 1619.1  | 1592.1  | 2160.8  | 2063.3  | 1634.1  | 1481.1  | 457.7   | 172.6   | 175.6  |
| 87.5° | 804.3   | 880.8   | 1056.4  | 844.8   | 786.3   | 711.3   | 721.8   | 834.3   | 90.0    | 66.0    | 24.0   |
| 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°    | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 | 4668.3 |
| 2.5°  | 4617.2 | 4597.7 | 4533.2 | 4470.2 | 4410.2 | 4353.1 | 4315.6 | 4266.1 | 4233.1 | 4242.1 | 4255.6 |
| 5°    | 4501.7 | 4458.2 | 4344.1 | 4233.1 | 4128.0 | 4003.5 | 3903.0 | 3821.9 | 3760.4 | 3737.9 | 3733.4 |
| 7.5°  | 4380.1 | 4306.6 | 4143.1 | 3952.5 | 3773.9 | 3619.4 | 3440.8 | 3352.3 | 3248.7 | 3212.7 | 3200.7 |
| 10°   | 4306.6 | 4207.6 | 3978.0 | 3712.4 | 3443.8 | 3187.2 | 2993.6 | 2836.1 | 2693.5 | 2666.5 | 2653.0 |
| 12.5° | 4285.6 | 4155.1 | 3845.9 | 3503.8 | 3146.7 | 2831.6 | 2545.0 | 2337.9 | 2199.8 | 2168.3 | 2121.8 |
| 15°   | 4273.6 | 4111.5 | 3722.9 | 3293.7 | 2840.6 | 2456.4 | 2154.8 | 1913.2 | 1787.2 | 1703.1 | 1704.6 |
| 17.5° | 4263.1 | 4062.0 | 3584.8 | 3064.1 | 2576.5 | 2133.8 | 1800.7 | 1583.1 | 1467.6 | 1422.5 | 1418.0 |
| 20°   | 4248.1 | 4003.5 | 3425.8 | 2822.6 | 2274.9 | 1839.7 | 1538.1 | 1376.0 | 1298.0 | 1260.5 | 1259.0 |
| 22.5° | 4242.1 | 3946.5 | 3269.7 | 2576.5 | 2007.8 | 1613.1 | 1364.0 | 1250.0 | 1200.5 | 1174.9 | 1174.9 |
| 25°   | 4257.1 | 3906.0 | 3106.2 | 2342.4 | 1770.7 | 1419.5 | 1244.0 | 1165.9 | 1137.4 | 1123.9 | 1119.4 |
| 27.5° | 4303.6 | 3888.0 | 2944.1 | 2108.3 | 1553.1 | 1287.5 | 1162.9 | 1108.9 | 1087.9 | 1077.4 | 1078.9 |
| 30°   | 4392.1 | 3886.5 | 2785.0 | 1877.2 | 1391.0 | 1186.9 | 1098.4 | 1060.9 | 1044.4 | 1038.4 | 1036.9 |
| 32.5° | 4534.7 | 3919.5 | 2629.0 | 1686.6 | 1254.5 | 1102.9 | 1038.4 | 1011.4 | 1003.9 | 999.4  | 997.9  |
| 35°   | 4776.3 | 4012.5 | 2474.4 | 1512.6 | 1149.4 | 1027.9 | 981.4  | 967.9  | 957.4  | 961.9  | 963.4  |
| 37.5° | 5101.9 | 4173.1 | 2327.4 | 1376.0 | 1069.9 | 972.4  | 933.3  | 921.3  | 915.3  | 919.8  | 924.3  |
| 40°   | 5538.6 | 4404.2 | 2204.3 | 1266.5 | 1012.9 | 925.8  | 891.3  | 880.8  | 874.8  | 882.3  | 883.8  |
| 42.5° | 6020.3 | 4671.3 | 2102.3 | 1180.9 | 966.4  | 886.8  | 853.8  | 841.8  | 837.3  | 841.8  | 843.3  |
| 45°   | 6515.4 | 4981.9 | 2049.8 | 1119.4 | 927.3  | 858.3  | 823.8  | 810.3  | 799.8  | 796.8  | 801.3  |
| 47.5° | 7003.1 | 5252.0 | 2048.3 | 1081.9 | 895.8  | 832.8  | 795.3  | 780.3  | 766.8  | 759.3  | 757.8  |
| 50°   | 7400.8 | 5466.5 | 2084.3 | 1065.4 | 868.8  | 804.3  | 766.8  | 751.8  | 733.8  | 718.8  | 721.8  |
| 52.5° | 7700.9 | 5606.1 | 2100.8 | 1057.9 | 853.8  | 774.3  | 736.8  | 723.3  | 702.3  | 682.8  | 682.8  |
| 55°   | 7894.5 | 5639.1 | 2060.3 | 1050.4 | 841.8  | 742.8  | 702.3  | 690.3  | 669.3  | 649.7  | 649.7  |
| 57.5° | 7960.5 | 5537.1 | 1914.7 | 1032.4 | 829.8  | 715.8  | 667.8  | 657.2  | 640.7  | 621.2  | 618.2  |
| 60°   | 7807.4 | 5191.9 | 1659.6 | 978.4  | 805.8  | 687.3  | 630.2  | 625.7  | 619.7  | 603.2  | 601.7  |
| 62.5° | 7217.7 | 4459.7 | 1382.0 | 907.8  | 765.3  | 657.2  | 595.7  | 603.2  | 607.7  | 598.7  | 597.2  |
| 65°   | 6236.3 | 3620.9 | 1180.9 | 810.3  | 711.3  | 615.2  | 558.2  | 577.7  | 589.7  | 589.7  | 586.7  |
| 67.5° | 5058.4 | 2780.5 | 994.9  | 726.3  | 643.7  | 558.2  | 516.2  | 531.2  | 540.2  | 537.2  | 544.7  |
| 70°   | 3595.3 | 1883.2 | 810.3  | 630.2  | 558.2  | 493.7  | 462.2  | 462.2  | 456.2  | 453.2  | 453.2  |
| 72.5° | 1743.7 | 1075.9 | 657.2  | 526.7  | 475.7  | 421.7  | 396.1  | 385.6  | 373.6  | 372.1  | 364.6  |
| 73°   | 1457.0 | 964.9  | 627.2  | 507.2  | 456.2  | 411.2  | 382.6  | 366.1  | 358.6  | 352.6  | 351.1  |
| 75°   | 886.8  | 732.3  | 523.7  | 427.7  | 388.6  | 354.1  | 328.6  | 313.6  | 306.1  | 301.6  | 300.1  |
| 77.5° | 583.7  | 546.2  | 406.7  | 327.1  | 297.1  | 276.1  | 265.6  | 250.6  | 246.1  | 240.1  | 240.1  |
| 80°   | 435.2  | 417.2  | 291.1  | 231.1  | 213.1  | 195.1  | 192.1  | 189.1  | 177.1  | 169.6  | 166.6  |
| 82.5° | 280.6  | 297.1  | 198.1  | 154.6  | 135.1  | 120.0  | 121.5  | 126.0  | 114.0  | 103.5  | 100.5  |
| 85°   | 199.6  | 214.6  | 120.0  | 70.5   | 57.0   | 49.5   | 55.5   | 49.5   | 51.0   | 40.5   | 33.0   |
| 87.5° | 33.0   | 57.0   | 21.0   | 9.0    | 4.5    | 3.0    | 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    |

(END OF REPORT)