

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: P319472

Luminaire Tested: **GAN-SA8A-827-U-SL2**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P319472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26897 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 257  
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

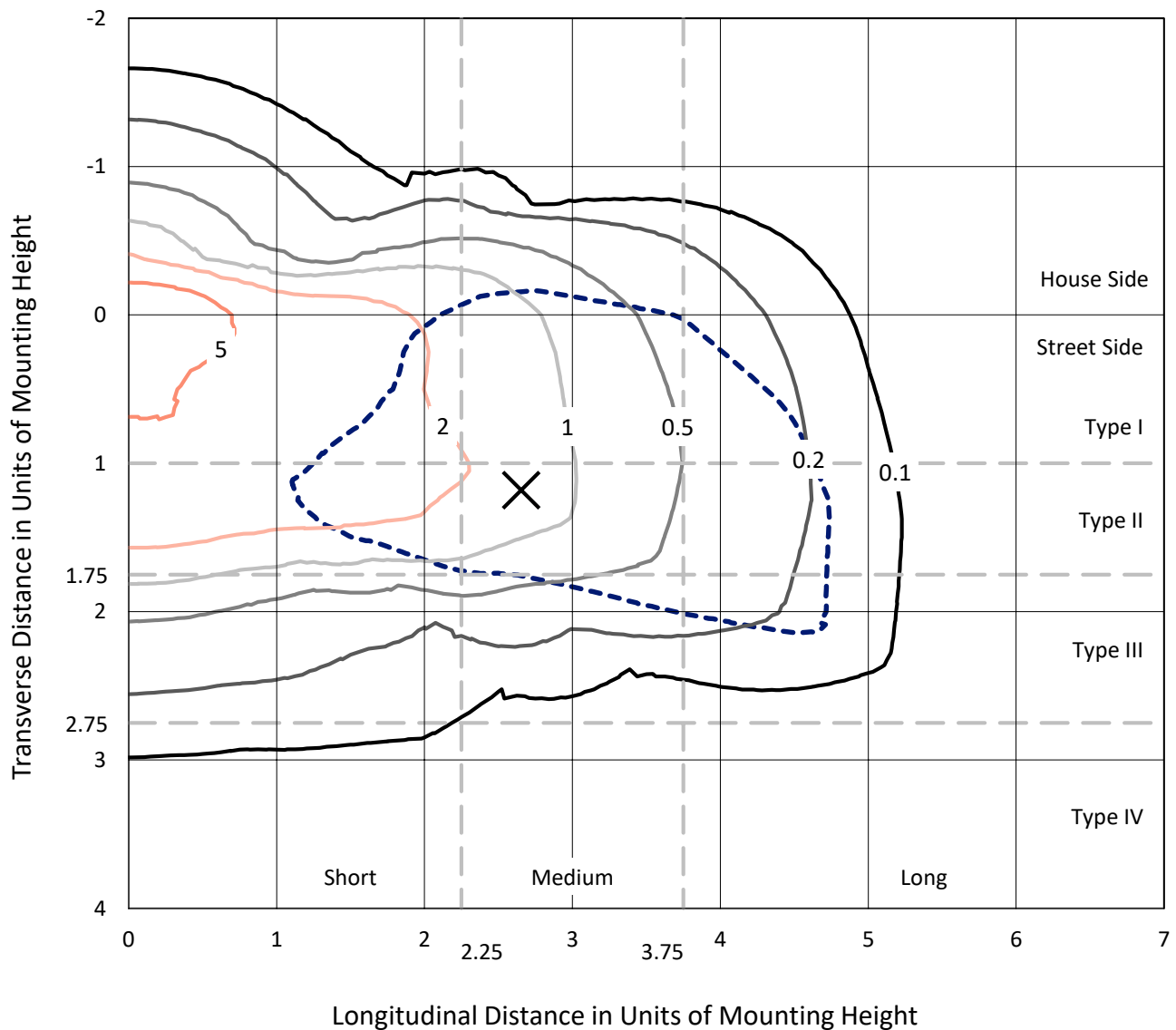


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## Iso-Footcandle Lines of Horizontal Illumination

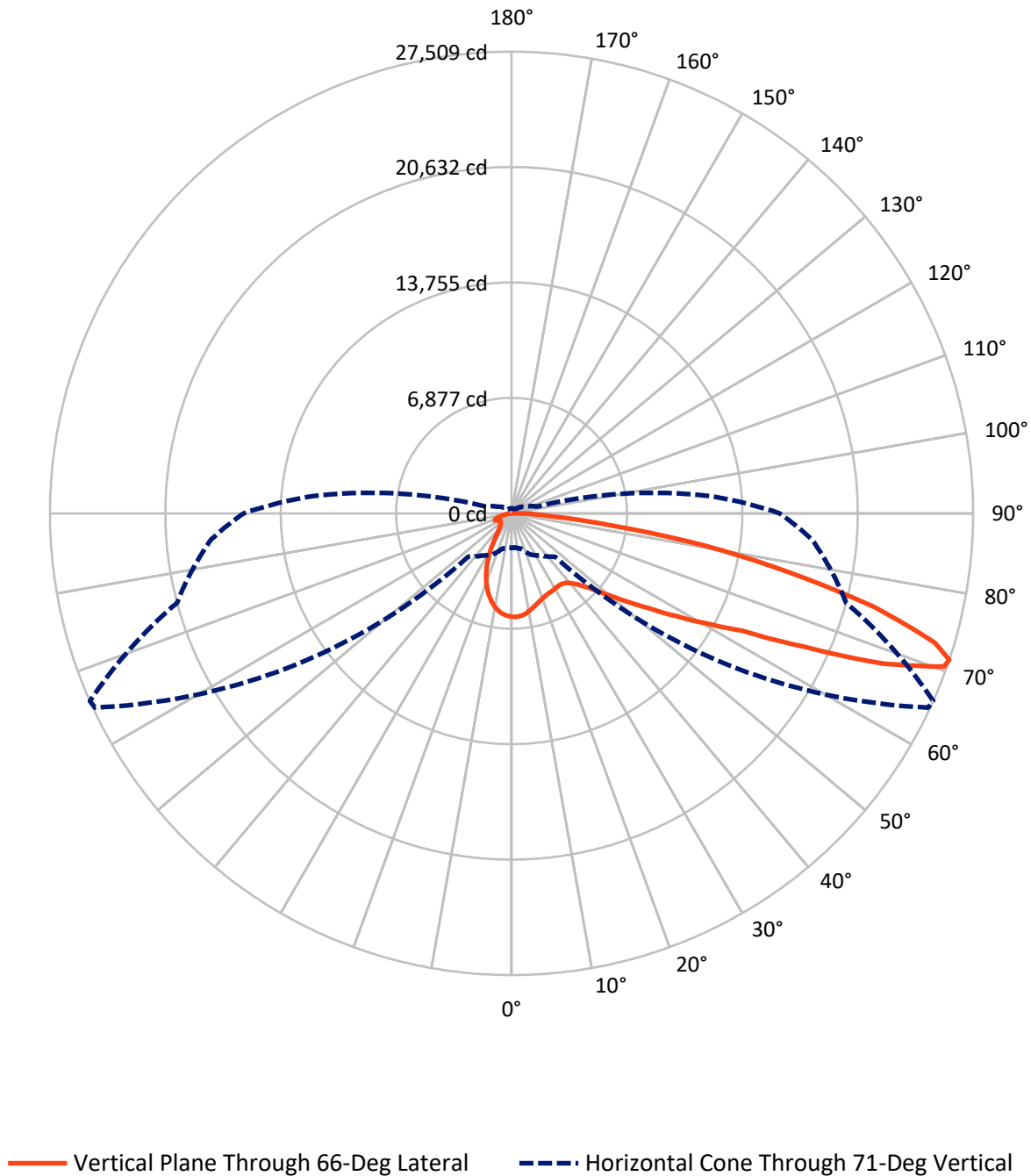
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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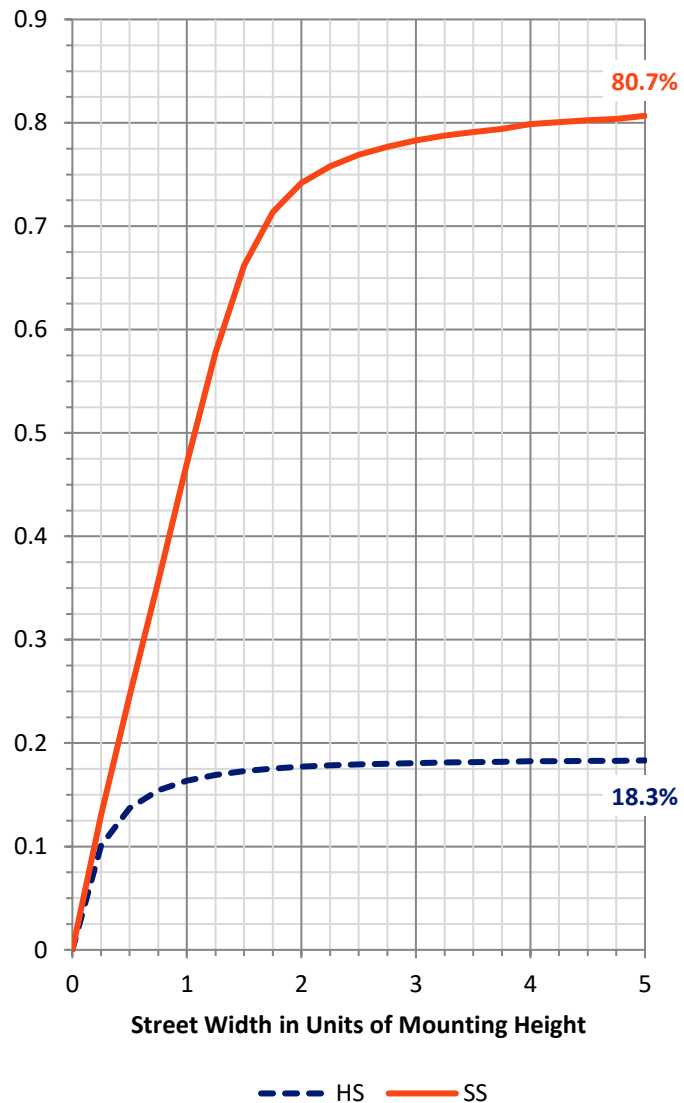
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4984.8   | 0.0    | 4984.8  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 21912.2  | 0.0    | 21912.2 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 26897.0  | 0.0    | 26897.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 542.4   | 2.0       |
| 10°-20°   | 1300.8  | 4.8       |
| 20°-30°   | 1747.3  | 6.5       |
| 30°-40°   | 2298.6  | 8.5       |
| 40°-50°   | 3343.8  | 12.4      |
| 50°-60°   | 5223.5  | 19.4      |
| 60°-70°   | 6543.2  | 24.3      |
| 70°-80°   | 4991.0  | 18.6      |
| 80°-90°   | 906.3   | 3.4       |
| 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°    | 26897.0 | 100.0     |
| 0°-180°   | 26897.0 | 100.0     |

**Coefficient of Utilization**



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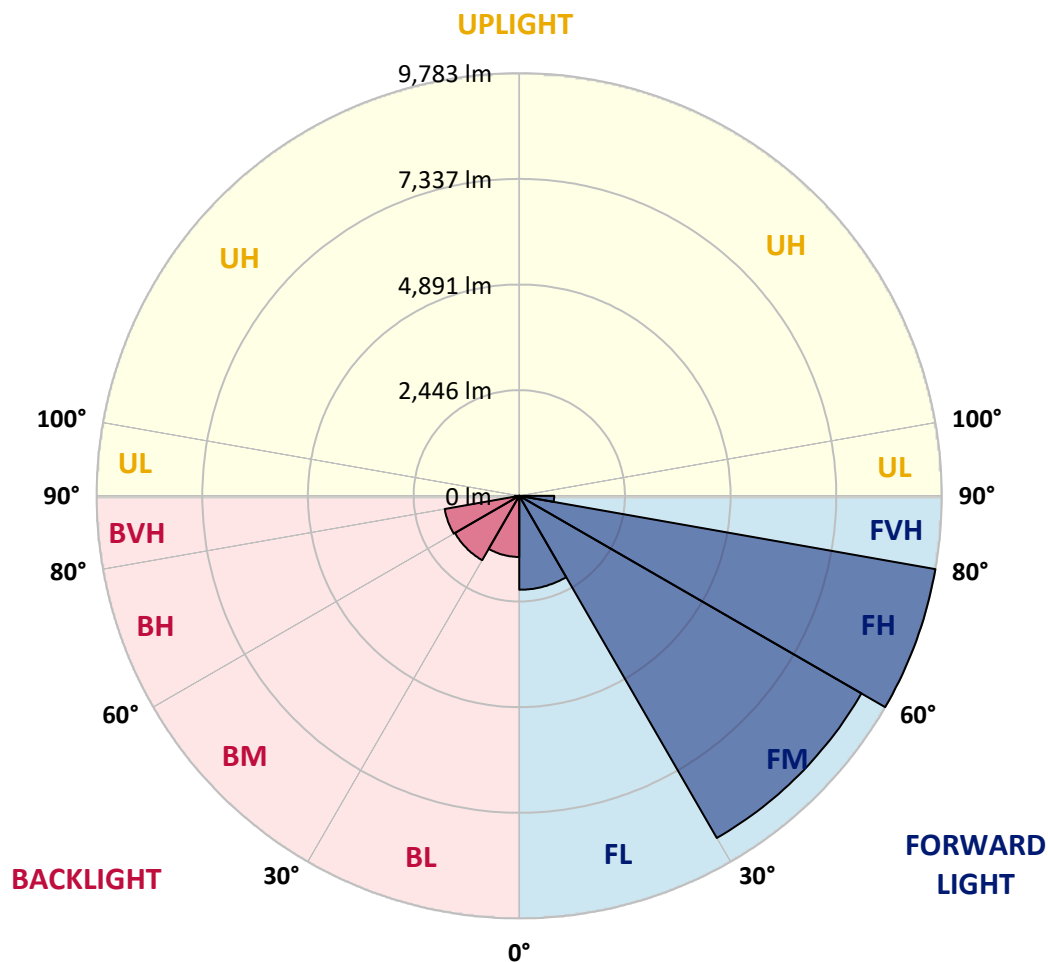
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2175.0 | 8.1       |                         |      |          |
| FM   | (30°-60°)   | 9146.3 | 34.0      |                         |      |          |
| FH   | (60°-80°)   | 9782.7 | 36.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 808.2  | 3.0       |                         |      | G5       |
| BL   | (0°-30°)    | 1415.5 | 5.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1719.6 | 6.4       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1751.5 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 98.1   | 0.4       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6  | 6161.6  | 6161.6  | 6161.6  | 6161.6  | 6161.6  | 6161.6  |
| 2.5°  | 6047.4 | 6038.1 | 6065.9 | 6094.7 | 6105.9  | 6124.4  | 6152.3  | 6168.1  | 6167.2  | 6169.9  | 6160.7  |
| 5°    | 5646.2 | 5634.1 | 5689.8 | 5735.3 | 5822.6  | 5921.1  | 6040.9  | 6126.3  | 6128.2  | 6176.4  | 6189.4  |
| 7.5°  | 5266.4 | 5258.0 | 5322.1 | 5395.4 | 5496.7  | 5647.1  | 5841.2  | 6025.1  | 6036.2  | 6167.2  | 6212.7  |
| 10°   | 4961.8 | 4959.9 | 5022.1 | 5102.0 | 5219.9  | 5388.0  | 5610.9  | 5880.2  | 5896.9  | 6122.6  | 6216.4  |
| 12.5° | 4724.0 | 4727.7 | 4781.6 | 4872.6 | 4997.1  | 5172.6  | 5414.0  | 5717.7  | 5744.6  | 6052.0  | 6195.0  |
| 15°   | 4548.5 | 4563.4 | 4607.0 | 4699.0 | 4821.5  | 4999.8  | 5247.8  | 5567.2  | 5608.1  | 5973.1  | 6182.9  |
| 17.5° | 4448.2 | 4464.9 | 4495.6 | 4571.7 | 4686.9  | 4858.7  | 5093.6  | 5443.7  | 5480.9  | 5912.7  | 6183.9  |
| 20°   | 4418.5 | 4432.4 | 4450.1 | 4496.5 | 4594.0  | 4750.0  | 4972.0  | 5332.3  | 5372.2  | 5864.4  | 6193.2  |
| 22.5° | 4477.0 | 4487.2 | 4489.1 | 4485.4 | 4544.8  | 4672.0  | 4883.8  | 5250.6  | 5293.3  | 5832.8  | 6199.7  |
| 25°   | 4602.4 | 4616.3 | 4606.1 | 4571.7 | 4552.2  | 4630.2  | 4838.3  | 5196.7  | 5239.4  | 5809.6  | 6186.7  |
| 27.5° | 4790.9 | 4792.8 | 4784.4 | 4739.8 | 4647.9  | 4634.9  | 4824.3  | 5165.1  | 5206.0  | 5782.7  | 6159.7  |
| 30°   | 5047.2 | 5059.3 | 5044.4 | 4984.1 | 4833.6  | 4709.2  | 4841.0  | 5134.5  | 5171.6  | 5748.3  | 6116.1  |
| 32.5° | 5347.2 | 5376.9 | 5375.9 | 5312.8 | 5097.4  | 4875.4  | 4909.8  | 5115.9  | 5144.7  | 5712.1  | 6063.1  |
| 35°   | 5658.3 | 5699.1 | 5775.3 | 5748.3 | 5481.8  | 5138.2  | 5041.6  | 5145.6  | 5165.1  | 5707.5  | 6026.0  |
| 37.5° | 5981.4 | 6022.3 | 6179.2 | 6251.7 | 5939.6  | 5514.3  | 5249.6  | 5250.6  | 5259.9  | 5764.1  | 6023.2  |
| 40°   | 6319.5 | 6363.1 | 6599.0 | 6787.5 | 6533.0  | 5990.7  | 5584.9  | 5469.7  | 5459.5  | 5903.4  | 6078.0  |
| 42.5° | 6793.1 | 6832.1 | 7115.3 | 7355.8 | 7191.5  | 6600.8  | 6048.3  | 5807.8  | 5786.4  | 6176.4  | 6253.5  |
| 45°   | 7392.0 | 7425.5 | 7726.4 | 7983.6 | 7899.1  | 7297.3  | 6630.5  | 6273.0  | 6269.3  | 6631.5  | 6609.2  |
| 47.5° | 8104.3 | 8130.3 | 8400.6 | 8649.4 | 8680.1  | 8098.7  | 7362.3  | 6990.9  | 6930.5  | 7255.5  | 7159.9  |
| 50°   | 8846.3 | 8875.1 | 9059.0 | 9326.4 | 9553.9  | 9171.3  | 8304.0  | 7870.3  | 7789.5  | 8079.2  | 7939.9  |
| 52.5° | 9337.6 | 9375.6 | 9535.4 | 9874.3 | 10536.4 | 10347.0 | 9417.4  | 8936.4  | 8813.8  | 9077.5  | 8970.7  |
| 55°   | 9118.4 | 9203.8 | 9448.1 | 9991.3 | 11322.1 | 12143.0 | 10790.9 | 10179.8 | 10041.5 | 10260.6 | 10197.5 |
| 57.5° | 8122.0 | 8239.0 | 8572.4 | 9410.9 | 11432.6 | 13725.4 | 12867.4 | 11644.3 | 11546.8 | 11483.7 | 11512.5 |
| 60°   | 6300.9 | 6413.2 | 6826.5 | 7919.5 | 10662.7 | 14880.7 | 15992.3 | 13449.6 | 13308.5 | 12711.3 | 12737.3 |
| 62.5° | 4459.4 | 4402.7 | 4686.0 | 5485.5 | 8664.3  | 15016.2 | 19548.0 | 15864.1 | 15399.8 | 14007.7 | 13893.5 |
| 65°   | 3400.7 | 3387.7 | 3514.9 | 3769.4 | 5247.8  | 13393.9 | 21666.3 | 19922.3 | 19197.0 | 15532.6 | 15263.3 |
| 67.5° | 2794.3 | 2771.1 | 2896.5 | 3267.0 | 3379.4  | 8641.1  | 21712.7 | 24630.5 | 23918.3 | 17430.7 | 16847.5 |
| 70°   | 2297.5 | 2271.5 | 2388.5 | 2866.7 | 3123.0  | 4382.3  | 18273.9 | 27387.7 | 27349.6 | 19834.1 | 18043.6 |
| 71°   | 2059.7 | 2041.2 | 2181.4 | 2712.6 | 3068.3  | 3652.4  | 15777.7 | 27395.1 | 27509.4 | 20647.6 | 17973.1 |
| 72.5° | 1677.1 | 1683.6 | 1832.2 | 2414.5 | 3027.4  | 3225.2  | 11596.0 | 26118.2 | 26359.7 | 21423.0 | 17331.4 |
| 75°   | 1114.4 | 1119.9 | 1315.0 | 1857.3 | 2935.5  | 3155.5  | 6373.3  | 21916.1 | 22360.0 | 20958.7 | 15814.9 |
| 77.5° | 748.5  | 746.6  | 879.4  | 1274.1 | 2557.5  | 3155.5  | 3736.9  | 16391.6 | 16879.1 | 16676.7 | 12192.2 |
| 80°   | 515.4  | 511.7  | 605.5  | 879.4  | 1936.2  | 3193.6  | 2889.0  | 11487.4 | 11635.0 | 9006.0  | 4955.3  |
| 82.5° | 315.7  | 318.5  | 395.6  | 621.3  | 1317.8  | 2874.2  | 2727.4  | 6263.7  | 6103.1  | 2525.9  | 1237.9  |
| 85°   | 181.1  | 180.2  | 252.6  | 420.7  | 846.0   | 2425.6  | 2659.6  | 2695.9  | 2473.0  | 760.6   | 447.6   |
| 87.5° | 65.0   | 69.6   | 135.6  | 233.1  | 484.8   | 1689.2  | 2256.6  | 1402.3  | 1263.9  | 343.6   | 202.4   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6161.6  | 6161.6  | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6 | 6161.6 |
| 2.5°  | 6154.2  | 6159.7  | 6153.2 | 6116.1 | 6084.5 | 6033.4 | 6004.6 | 5964.7 | 5952.6 | 5947.1 | 5961.9 |
| 5°    | 6177.4  | 6179.2  | 6124.4 | 6026.9 | 5917.3 | 5788.3 | 5695.4 | 5581.2 | 5527.3 | 5504.1 | 5519.0 |
| 7.5°  | 6198.7  | 6190.4  | 6070.6 | 5883.9 | 5681.5 | 5456.7 | 5257.1 | 5074.1 | 4967.3 | 4923.7 | 4927.4 |
| 10°   | 6201.5  | 6166.2  | 5974.0 | 5685.2 | 5371.3 | 5041.6 | 4735.2 | 4452.9 | 4274.6 | 4158.5 | 4193.8 |
| 12.5° | 6172.7  | 6113.3  | 5831.9 | 5427.9 | 4992.4 | 4542.9 | 4128.8 | 3705.3 | 3450.9 | 3332.9 | 3336.6 |
| 15°   | 6150.4  | 6042.7  | 5657.3 | 5125.2 | 4540.2 | 3944.9 | 3379.4 | 2881.6 | 2610.4 | 2489.7 | 2433.1 |
| 17.5° | 6131.9  | 5966.6  | 5454.9 | 4784.4 | 4006.2 | 3251.2 | 2571.4 | 2127.5 | 1978.9 | 1943.7 | 1928.8 |
| 20°   | 6105.9  | 5885.8  | 5229.2 | 4389.7 | 3397.9 | 2474.8 | 1877.7 | 1658.6 | 1659.5 | 1700.4 | 1705.9 |
| 22.5° | 6069.6  | 5793.8  | 4988.7 | 3946.8 | 2745.1 | 1802.5 | 1471.9 | 1408.8 | 1472.8 | 1550.8 | 1564.8 |
| 25°   | 6015.8  | 5685.2  | 4721.2 | 3457.4 | 2093.2 | 1385.5 | 1257.4 | 1254.6 | 1332.6 | 1414.3 | 1426.4 |
| 27.5° | 5939.6  | 5543.1  | 4424.1 | 2931.7 | 1542.5 | 1177.5 | 1126.5 | 1146.0 | 1203.5 | 1263.0 | 1267.6 |
| 30°   | 5837.5  | 5377.8  | 4096.3 | 2377.3 | 1209.1 | 1048.4 | 1042.9 | 1060.5 | 1095.8 | 1137.6 | 1141.3 |
| 32.5° | 5725.1  | 5209.7  | 3746.2 | 1840.6 | 1035.4 | 978.8  | 984.4  | 992.7  | 1009.4 | 1026.2 | 1029.9 |
| 35°   | 5623.0  | 5037.9  | 3387.7 | 1398.5 | 952.8  | 933.3  | 929.6  | 927.7  | 929.6  | 924.0  | 924.9  |
| 37.5° | 5557.0  | 4895.8  | 3014.4 | 1113.4 | 905.4  | 893.4  | 882.2  | 868.3  | 852.5  | 843.2  | 845.1  |
| 40°   | 5532.9  | 4790.0  | 2636.4 | 962.1  | 866.4  | 858.1  | 836.7  | 807.0  | 788.4  | 782.9  | 782.9  |
| 42.5° | 5597.9  | 4735.2  | 2271.5 | 885.9  | 833.9  | 820.0  | 784.7  | 750.3  | 736.4  | 735.5  | 734.6  |
| 45°   | 5796.6  | 4757.5  | 1924.2 | 844.1  | 804.2  | 777.3  | 730.8  | 702.1  | 692.8  | 694.6  | 693.7  |
| 47.5° | 6153.2  | 4897.7  | 1627.0 | 816.3  | 774.5  | 739.2  | 687.2  | 664.0  | 652.8  | 652.8  | 653.8  |
| 50°   | 6759.6  | 5225.5  | 1390.2 | 793.1  | 749.4  | 703.9  | 655.6  | 626.8  | 612.0  | 611.1  | 611.1  |
| 52.5° | 7642.8  | 5812.4  | 1242.5 | 773.6  | 721.6  | 672.3  | 624.1  | 587.8  | 570.2  | 566.5  | 564.6  |
| 55°   | 8749.7  | 6653.8  | 1201.7 | 760.6  | 684.4  | 638.0  | 586.0  | 549.8  | 530.3  | 521.9  | 521.0  |
| 57.5° | 9987.6  | 7677.1  | 1282.5 | 744.8  | 646.3  | 597.1  | 544.2  | 509.8  | 489.4  | 479.2  | 478.3  |
| 60°   | 11240.4 | 8794.3  | 1612.1 | 722.5  | 614.8  | 552.5  | 501.5  | 469.9  | 449.5  | 438.3  | 436.5  |
| 62.5° | 12495.0 | 9971.8  | 2285.4 | 720.6  | 592.5  | 509.8  | 457.8  | 430.9  | 411.4  | 399.3  | 396.5  |
| 65°   | 13910.2 | 11260.8 | 3050.6 | 769.8  | 585.0  | 470.8  | 413.2  | 391.9  | 375.2  | 364.0  | 363.1  |
| 67.5° | 15535.4 | 12716.0 | 2977.2 | 871.1  | 610.1  | 435.5  | 371.5  | 354.7  | 342.7  | 333.4  | 332.5  |
| 70°   | 16297.8 | 12488.5 | 1850.8 | 942.6  | 645.4  | 401.2  | 331.5  | 319.5  | 310.2  | 303.7  | 300.9  |
| 71°   | 15978.3 | 11857.9 | 1551.8 | 934.2  | 641.7  | 386.3  | 315.7  | 306.5  | 297.2  | 291.6  | 288.8  |
| 72.5° | 15107.3 | 10814.1 | 1294.5 | 869.2  | 599.9  | 359.4  | 295.3  | 286.0  | 277.7  | 271.2  | 269.3  |
| 75°   | 13556.4 | 9657.9  | 1036.4 | 694.6  | 478.3  | 303.7  | 259.1  | 248.9  | 242.4  | 238.7  | 234.9  |
| 77.5° | 9965.3  | 6892.4  | 801.4  | 548.8  | 352.0  | 247.9  | 221.0  | 213.6  | 207.1  | 201.5  | 198.7  |
| 80°   | 3817.7  | 2669.9  | 539.5  | 409.5  | 258.2  | 195.9  | 178.3  | 174.6  | 168.1  | 164.4  | 164.4  |
| 82.5° | 1028.0  | 797.7   | 287.9  | 247.9  | 172.7  | 143.0  | 136.5  | 134.7  | 129.1  | 121.7  | 122.6  |
| 85°   | 416.0   | 352.0   | 161.6  | 136.5  | 105.9  | 84.5   | 91.9   | 92.9   | 86.4   | 77.1   | 78.0   |
| 87.5° | 182.9   | 149.5   | 90.1   | 60.4   | 46.4   | 32.5   | 41.8   | 41.8   | 38.1   | 31.6   | 28.8   |
| 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)