

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: P323549

Luminaire Tested: **GAN-SA5A-750-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-750-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19897 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

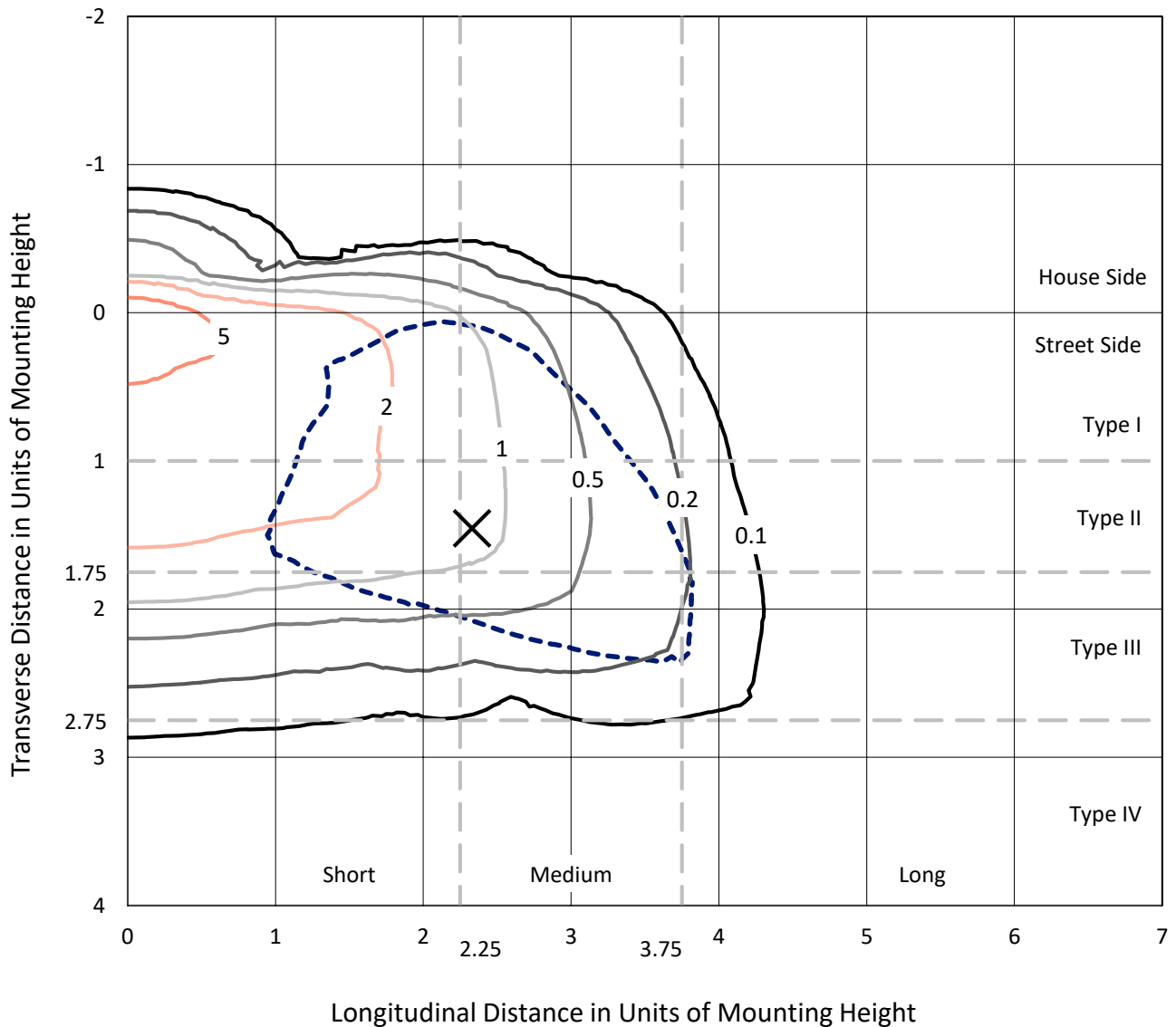
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

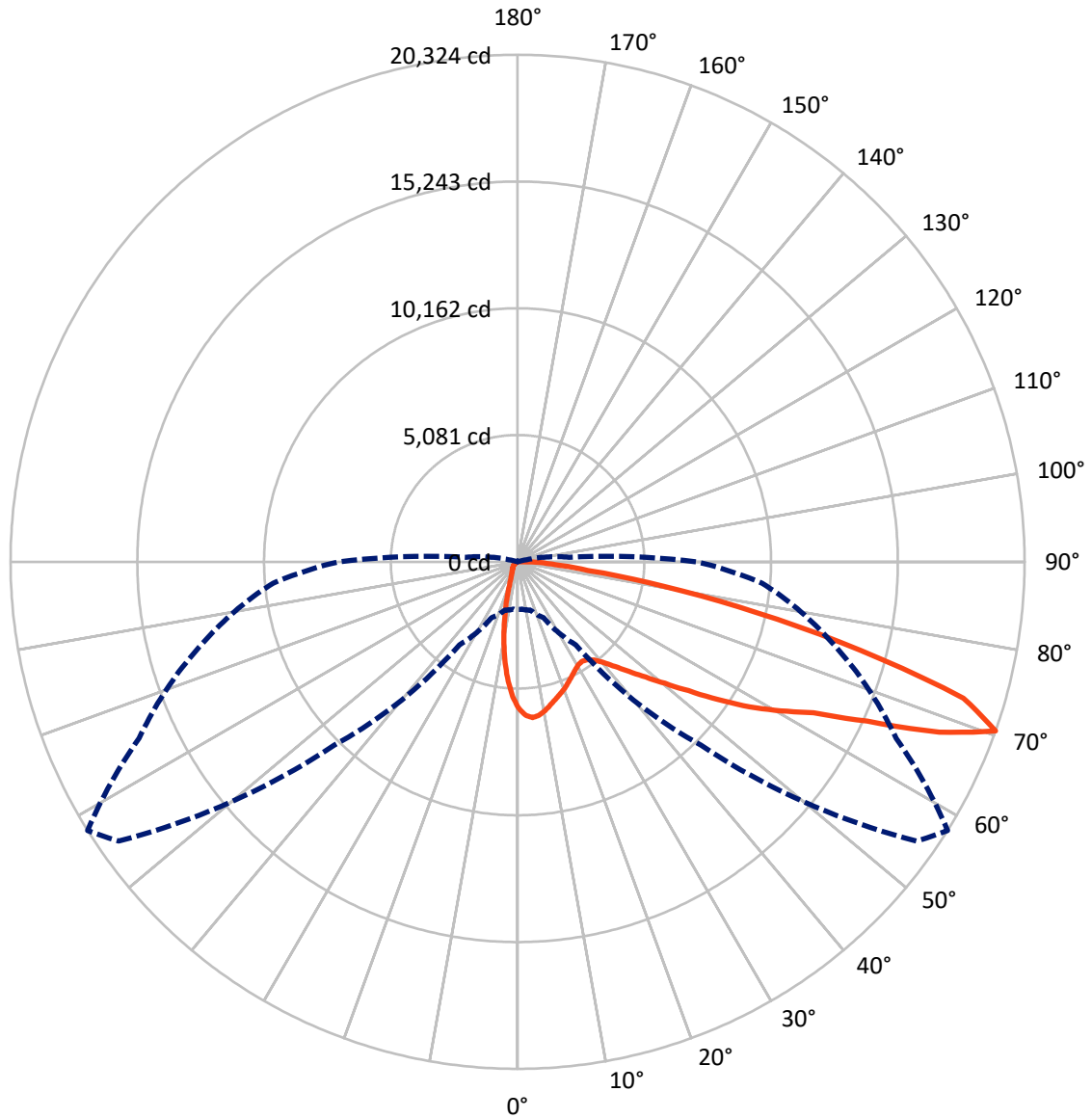
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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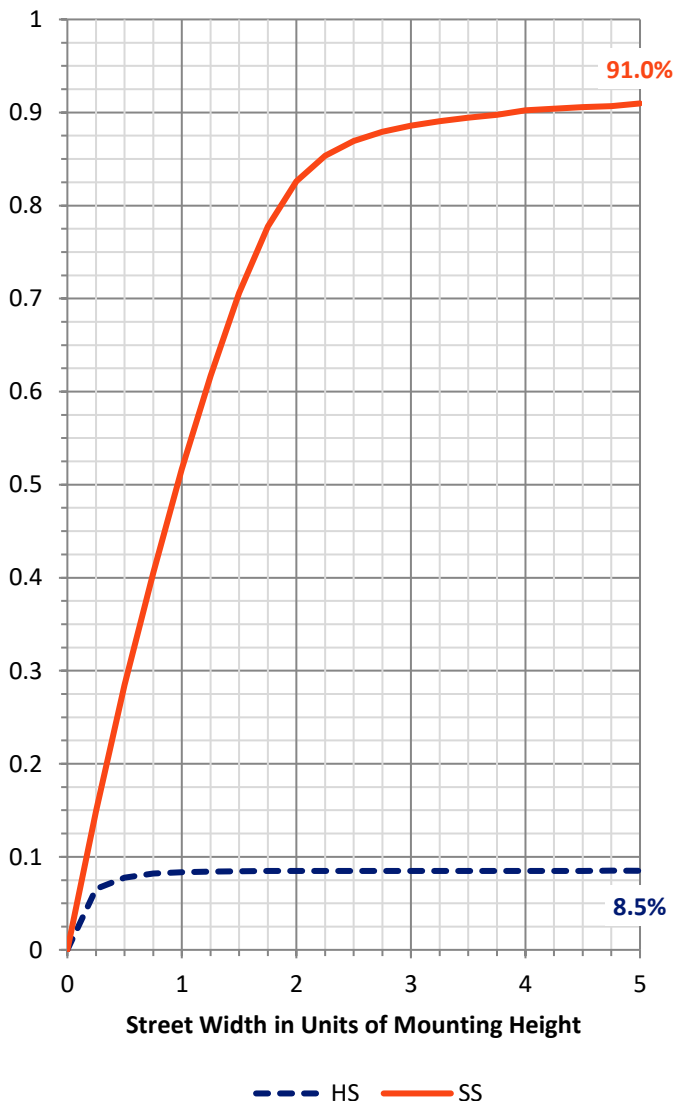
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1702.7   | 0.0    | 1702.7  |
|                    | % Fixture | 8.6      | 0.0    | 8.6     |
| <b>Street Side</b> | Lumens    | 18194.3  | 0.0    | 18194.3 |
|                    | % Fixture | 91.4     | 0.0    | 91.4    |
| <b>Total</b>       | Lumens    | 19897.0  | 0.0    | 19897.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.6   | 2.4       |
| 10°-20°   | 1008.7  | 5.1       |
| 20°-30°   | 1326.1  | 6.7       |
| 30°-40°   | 1756.3  | 8.8       |
| 40°-50°   | 2625.1  | 13.2      |
| 50°-60°   | 4205.4  | 21.1      |
| 60°-70°   | 5300.8  | 26.6      |
| 70°-80°   | 2859.2  | 14.4      |
| 80°-90°   | 334.7   | 1.7       |
| 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°    | 19897.0 | 100.0     |
| 0°-180°   | 19897.0 | 100.0     |

**Coefficient of Utilization**

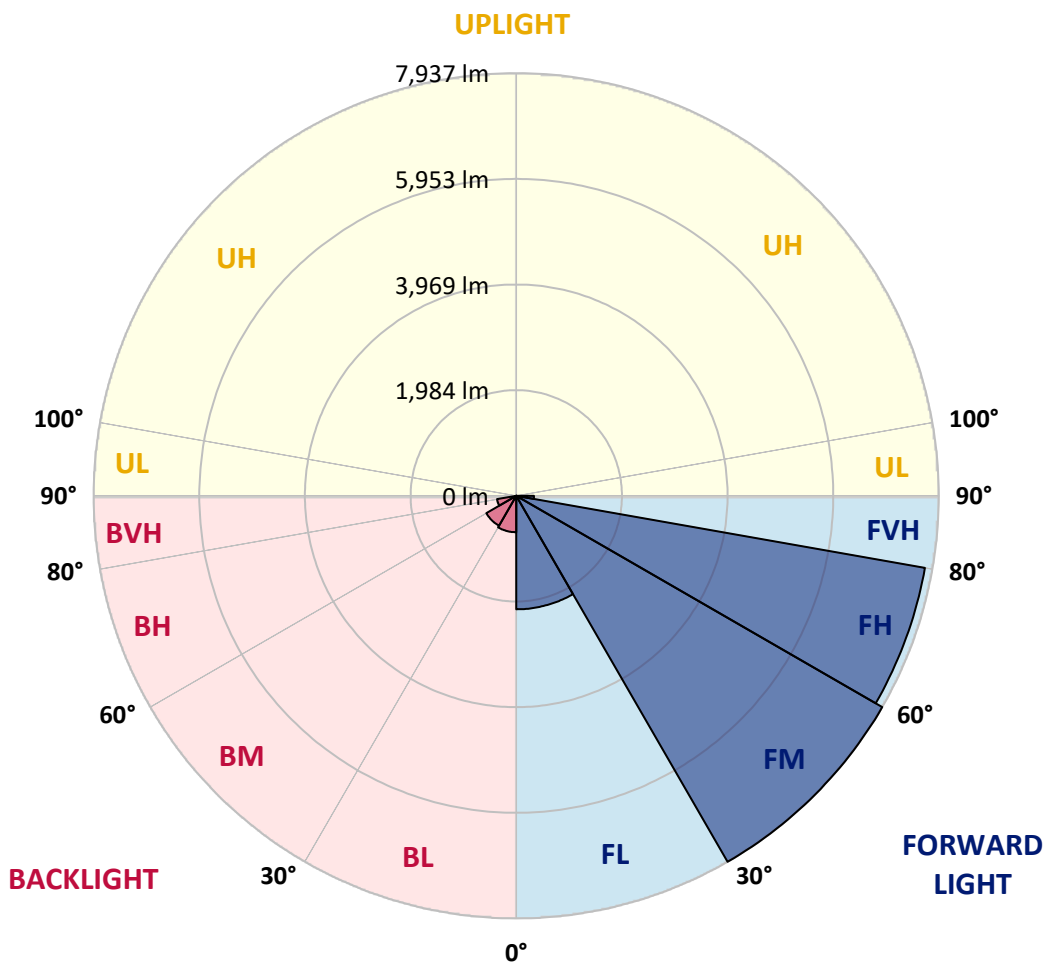


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2131.4 | 10.7      |                         |      |          |
| FM (30°-60°)   | 7937.2 | 39.9      |                         |      |          |
| FH (60°-80°)   | 7793.9 | 39.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 331.8  | 1.7       |                         |      | G3/500   |
| BL (0°-30°)    | 684.1  | 3.4       | B2/1000                 |      |          |
| BM (30°-60°)   | 649.6  | 3.3       | B1/1000                 |      |          |
| BH (60°-80°)   | 366.2  | 1.8       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.9    | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5  | 5877.5  | 5877.5  | 5877.5  | 5877.5  | 5877.5  | 5877.5  |
| 2.5°  | 6364.8 | 6349.1 | 6343.3 | 6333.3 | 6295.3  | 6258.1  | 6184.4  | 6163.7  | 6117.4  | 6007.4  | 5890.7  |
| 5°    | 6369.8 | 6368.9 | 6386.3 | 6382.2 | 6368.9  | 6351.5  | 6298.6  | 6271.3  | 6192.7  | 6035.5  | 5822.0  |
| 7.5°  | 6062.8 | 6078.5 | 6117.4 | 6148.8 | 6185.3  | 6232.4  | 6239.0  | 6212.6  | 6148.0  | 5978.4  | 5695.5  |
| 10°   | 5650.8 | 5675.6 | 5730.2 | 5792.3 | 5887.4  | 5981.7  | 6066.1  | 6062.8  | 6040.5  | 5873.3  | 5543.2  |
| 12.5° | 5237.9 | 5266.9 | 5329.8 | 5421.6 | 5556.5  | 5710.4  | 5860.9  | 5881.6  | 5918.8  | 5779.0  | 5402.6  |
| 15°   | 4876.4 | 4901.2 | 4963.3 | 5075.8 | 5242.9  | 5449.7  | 5670.6  | 5708.7  | 5804.7  | 5705.4  | 5285.1  |
| 17.5° | 4569.4 | 4585.2 | 4630.7 | 4755.6 | 4949.2  | 5199.9  | 5487.0  | 5561.4  | 5704.6  | 5647.5  | 5183.3  |
| 20°   | 4355.2 | 4357.6 | 4387.4 | 4475.1 | 4668.7  | 4949.2  | 5296.7  | 5403.4  | 5598.7  | 5597.8  | 5078.3  |
| 22.5° | 4249.3 | 4241.0 | 4246.8 | 4297.2 | 4439.5  | 4710.1  | 5106.4  | 5233.0  | 5503.5  | 5555.6  | 4971.5  |
| 25°   | 4229.4 | 4222.8 | 4206.2 | 4212.9 | 4298.9  | 4500.8  | 4914.4  | 5060.9  | 5420.0  | 5530.0  | 4878.9  |
| 27.5° | 4291.5 | 4298.1 | 4269.9 | 4240.2 | 4246.8  | 4365.1  | 4744.0  | 4913.6  | 5352.1  | 5530.0  | 4813.5  |
| 30°   | 4416.4 | 4419.7 | 4399.0 | 4360.1 | 4308.0  | 4327.0  | 4625.7  | 4795.3  | 5318.2  | 5568.1  | 4772.1  |
| 32.5° | 4554.6 | 4572.8 | 4570.3 | 4538.8 | 4464.4  | 4387.4  | 4597.6  | 4752.3  | 5315.7  | 5652.4  | 4768.0  |
| 35°   | 4725.8 | 4746.5 | 4781.2 | 4774.6 | 4696.9  | 4570.3  | 4693.5  | 4815.2  | 5364.5  | 5791.4  | 4812.7  |
| 37.5° | 4907.8 | 4939.3 | 5013.7 | 5049.3 | 4998.8  | 4855.7  | 4908.7  | 4995.5  | 5495.2  | 6016.5  | 4926.0  |
| 40°   | 5084.1 | 5119.6 | 5255.3 | 5395.1 | 5357.1  | 5209.8  | 5234.6  | 5304.1  | 5727.7  | 6340.0  | 5141.1  |
| 42.5° | 5257.0 | 5309.9 | 5509.3 | 5739.3 | 5784.8  | 5667.3  | 5680.6  | 5736.0  | 6072.7  | 6785.1  | 5492.8  |
| 45°   | 5463.8 | 5523.4 | 5818.7 | 6102.5 | 6224.1  | 6172.8  | 6229.1  | 6265.5  | 6523.6  | 7373.3  | 5966.8  |
| 47.5° | 5767.4 | 5836.1 | 6198.5 | 6522.0 | 6735.4  | 6768.5  | 6881.9  | 6905.9  | 7093.7  | 8058.4  | 6584.9  |
| 50°   | 6359.8 | 6378.9 | 6706.5 | 7000.2 | 7308.0  | 7506.5  | 7635.6  | 7653.8  | 7783.7  | 8807.1  | 7356.8  |
| 52.5° | 7105.3 | 7117.7 | 7303.0 | 7499.9 | 7849.9  | 8255.3  | 8557.3  | 8582.9  | 8610.2  | 9536.8  | 8118.8  |
| 55°   | 7845.7 | 7844.1 | 7966.5 | 8082.4 | 8482.8  | 9071.9  | 9727.1  | 9742.8  | 9546.8  | 10229.3 | 8701.2  |
| 57.5° | 8308.2 | 8352.9 | 8539.1 | 8688.0 | 9247.3  | 10002.6 | 10911.9 | 10969.8 | 10530.5 | 10742.3 | 9277.1  |
| 60°   | 8161.0 | 8182.5 | 8595.3 | 9146.3 | 10199.5 | 11325.6 | 12110.7 | 12125.6 | 11270.1 | 11254.4 | 10005.1 |
| 62.5° | 6953.0 | 6964.6 | 7613.3 | 8749.2 | 10681.9 | 13041.5 | 13556.9 | 13314.5 | 12120.6 | 11965.1 | 10876.3 |
| 65°   | 4765.5 | 4840.8 | 5382.7 | 6786.7 | 9795.8  | 14117.9 | 15795.7 | 15394.5 | 13417.1 | 12989.4 | 11664.0 |
| 67.5° | 2806.4 | 2790.6 | 3058.7 | 4092.9 | 7194.6  | 13403.0 | 18627.7 | 18229.0 | 15185.1 | 13675.2 | 11433.1 |
| 70°   | 1917.0 | 1906.2 | 2008.8 | 2477.9 | 4061.5  | 10397.3 | 19518.8 | 20323.8 | 16746.3 | 13213.6 | 9839.6  |
| 72.5° | 1368.4 | 1374.2 | 1525.6 | 1925.2 | 2549.9  | 6057.8  | 16785.2 | 18690.6 | 16257.4 | 11519.2 | 7479.2  |
| 75°   | 929.1  | 944.8  | 1161.6 | 1579.4 | 2235.5  | 3081.9  | 11911.3 | 14208.0 | 13238.4 | 8371.9  | 4298.9  |
| 77.5° | 499.7  | 517.1  | 772.7  | 1272.5 | 2021.2  | 2141.2  | 7662.1  | 9778.4  | 8315.7  | 3763.6  | 1246.0  |
| 80°   | 208.5  | 218.4  | 361.6  | 925.0  | 1746.5  | 1880.6  | 4508.2  | 5929.6  | 3543.5  | 742.1   | 278.0   |
| 82.5° | 90.2   | 95.1   | 150.6  | 551.8  | 1305.6  | 1587.7  | 2386.9  | 2852.7  | 1073.9  | 163.0   | 139.8   |
| 85°   | 17.4   | 18.2   | 62.1   | 292.1  | 833.1   | 896.0   | 1547.1  | 1516.5  | 482.3   | 70.3    | 101.8   |
| 87.5° | 0.0    | 0.0    | 14.9   | 91.8   | 244.9   | 488.1   | 944.0   | 932.4   | 163.8   | 33.9    | 38.1    |
| 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°    | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 | 5877.5 |
| 2.5°  | 5831.1 | 5774.1 | 5654.1 | 5506.0 | 5392.7 | 5267.7 | 5168.4 | 5042.7 | 4988.1 | 4990.6 | 4960.8 |
| 5°    | 5700.4 | 5582.9 | 5317.4 | 4982.3 | 4724.2 | 4457.8 | 4228.6 | 4000.2 | 3865.4 | 3821.5 | 3780.2 |
| 7.5°  | 5513.4 | 5327.3 | 4903.7 | 4387.4 | 3950.6 | 3523.7 | 3152.2 | 2825.4 | 2618.6 | 2517.6 | 2480.4 |
| 10°   | 5302.5 | 5041.0 | 4428.0 | 3747.9 | 3124.1 | 2546.6 | 2065.1 | 1646.4 | 1479.3 | 1366.0 | 1337.0 |
| 12.5° | 5117.1 | 4763.0 | 3963.0 | 3091.8 | 2351.3 | 1654.7 | 1195.5 | 934.9  | 821.6  | 776.9  | 769.4  |
| 15°   | 4942.6 | 4503.3 | 3515.4 | 2497.8 | 1628.2 | 1018.5 | 760.3  | 671.8  | 645.3  | 637.9  | 637.9  |
| 17.5° | 4777.9 | 4255.9 | 3077.7 | 1912.8 | 1077.2 | 714.0  | 629.6  | 609.8  | 601.5  | 600.7  | 601.5  |
| 20°   | 4605.8 | 4008.5 | 2647.5 | 1401.5 | 752.1  | 604.8  | 581.6  | 570.9  | 568.4  | 568.4  | 568.4  |
| 22.5° | 4441.2 | 3761.1 | 2228.9 | 1001.1 | 603.1  | 551.8  | 540.3  | 532.8  | 530.3  | 529.5  | 527.8  |
| 25°   | 4283.2 | 3526.2 | 1820.2 | 707.4  | 529.5  | 505.5  | 495.6  | 485.7  | 478.2  | 474.1  | 471.6  |
| 27.5° | 4153.3 | 3316.8 | 1439.6 | 567.6  | 478.2  | 457.5  | 445.1  | 430.2  | 412.0  | 403.7  | 400.4  |
| 30°   | 4049.9 | 3125.7 | 1109.5 | 479.0  | 430.2  | 409.5  | 390.5  | 364.9  | 338.4  | 324.3  | 323.5  |
| 32.5° | 3968.8 | 2937.9 | 842.2  | 423.6  | 387.2  | 361.6  | 334.2  | 302.0  | 271.4  | 255.7  | 254.8  |
| 35°   | 3929.1 | 2772.4 | 643.7  | 383.1  | 349.1  | 316.9  | 283.0  | 247.4  | 217.6  | 202.7  | 201.0  |
| 37.5° | 3955.6 | 2632.6 | 502.2  | 349.1  | 316.9  | 279.6  | 239.9  | 202.7  | 176.2  | 163.0  | 162.2  |
| 40°   | 4052.4 | 2543.3 | 407.9  | 320.2  | 289.6  | 244.1  | 201.0  | 166.3  | 144.0  | 133.2  | 132.4  |
| 42.5° | 4258.4 | 2510.2 | 348.3  | 296.2  | 263.1  | 211.0  | 167.1  | 137.3  | 116.7  | 109.2  | 107.6  |
| 45°   | 4602.5 | 2559.0 | 307.8  | 273.0  | 235.8  | 179.5  | 138.2  | 112.5  | 94.3   | 88.5   | 87.7   |
| 47.5° | 5060.9 | 2687.2 | 278.8  | 250.7  | 211.0  | 151.4  | 115.0  | 91.0   | 76.9   | 71.2   | 70.3   |
| 50°   | 5651.6 | 2890.8 | 254.8  | 228.3  | 187.8  | 128.2  | 95.1   | 72.0   | 59.6   | 55.4   | 55.4   |
| 52.5° | 6294.5 | 3133.2 | 233.3  | 207.7  | 164.6  | 106.7  | 76.9   | 55.4   | 47.2   | 42.2   | 42.2   |
| 55°   | 6825.6 | 3345.0 | 210.1  | 191.9  | 136.5  | 88.5   | 58.7   | 42.2   | 34.7   | 32.3   | 32.3   |
| 57.5° | 7356.0 | 3570.8 | 183.7  | 164.6  | 109.2  | 72.0   | 44.7   | 31.4   | 25.6   | 24.0   | 24.0   |
| 60°   | 8043.5 | 3847.2 | 158.0  | 134.0  | 86.0   | 54.6   | 33.1   | 22.3   | 19.0   | 18.2   | 18.2   |
| 62.5° | 8799.7 | 4009.3 | 134.9  | 107.6  | 67.0   | 40.5   | 24.0   | 14.9   | 14.1   | 14.1   | 13.2   |
| 65°   | 9262.2 | 3780.2 | 113.3  | 86.0   | 52.1   | 30.6   | 15.7   | 10.8   | 12.4   | 11.6   | 9.9    |
| 67.5° | 8672.3 | 2959.4 | 92.7   | 67.0   | 40.5   | 23.2   | 9.9    | 7.4    | 13.2   | 10.8   | 8.3    |
| 70°   | 7180.6 | 2071.7 | 72.0   | 47.2   | 32.3   | 19.9   | 6.6    | 5.0    | 14.1   | 10.8   | 6.6    |
| 72.5° | 5373.6 | 1386.6 | 57.1   | 31.4   | 24.0   | 17.4   | 5.8    | 2.5    | 12.4   | 9.1    | 5.8    |
| 75°   | 2936.3 | 558.5  | 45.5   | 19.9   | 14.9   | 12.4   | 4.1    | 1.7    | 8.3    | 6.6    | 4.1    |
| 77.5° | 772.7  | 147.3  | 33.1   | 13.2   | 8.3    | 5.0    | 2.5    | 0.8    | 4.1    | 3.3    | 1.7    |
| 80°   | 196.9  | 57.1   | 21.5   | 9.1    | 5.8    | 2.5    | 0.0    | 0.0    | 0.8    | 0.0    | 0.0    |
| 82.5° | 105.1  | 24.0   | 13.2   | 6.6    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 79.4   | 15.7   | 7.4    | 4.1    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 30.6   | 5.0    | 2.5    | 0.0    | 0.0    | 0.0    | 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)