

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: P323270

Luminaire Tested: **GAN-SA6A-760-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23087 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

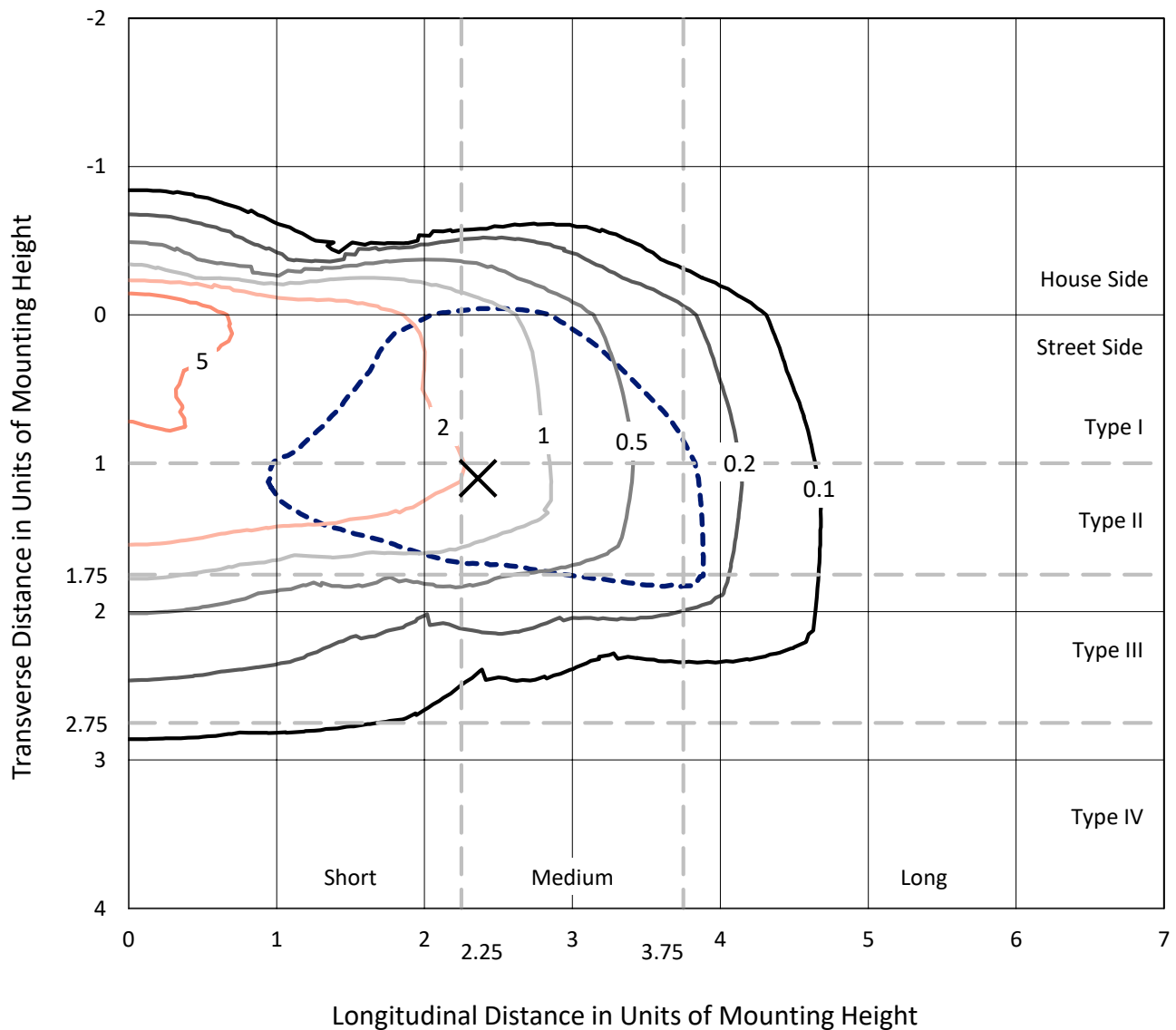
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

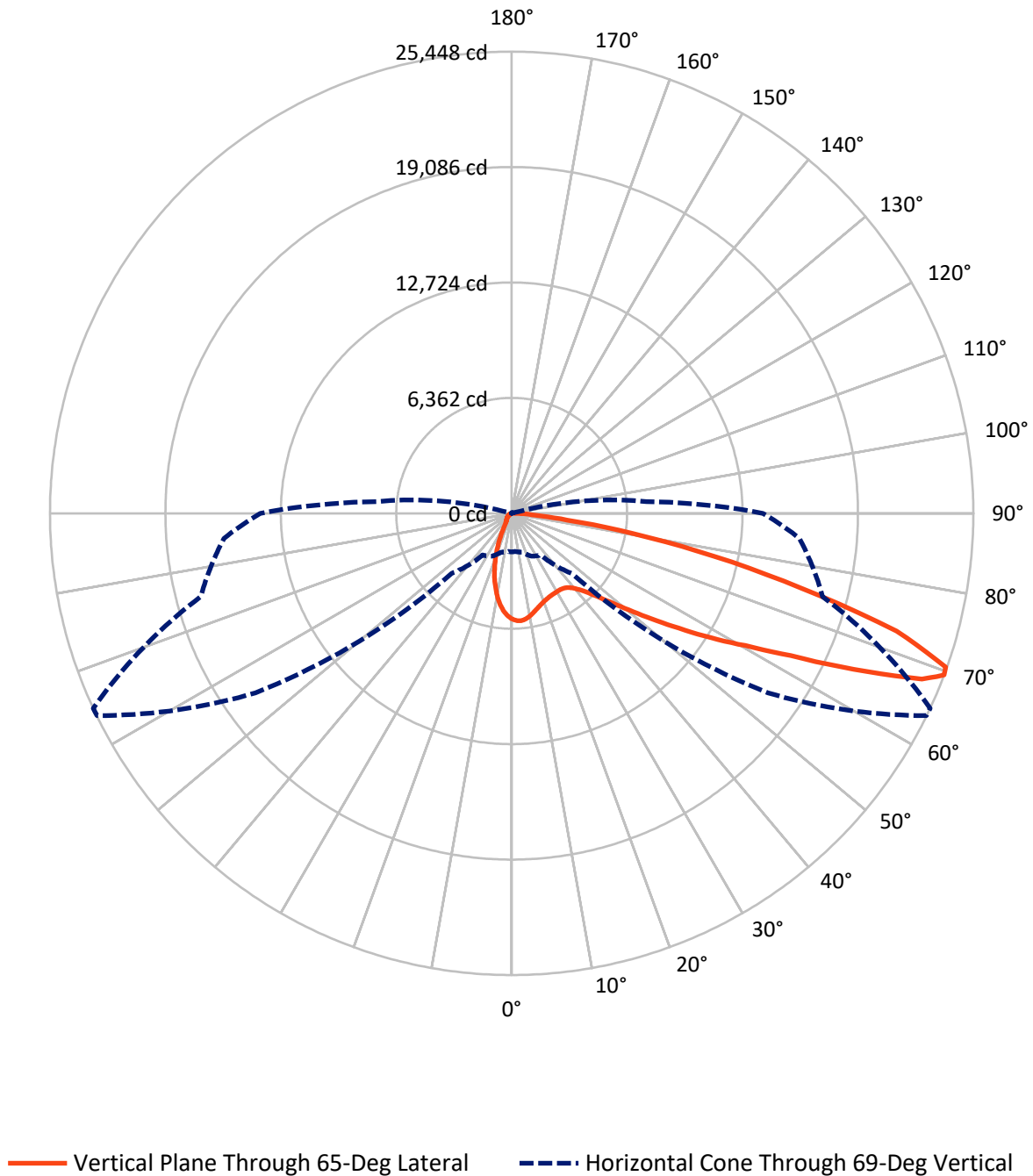
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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    | 2721.4   | 0.0    | 2721.4  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 20365.6  | 0.0    | 20365.6 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 23087.0  | 0.0    | 23087.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 487.9   | 2.1       |
| 10°-20°   | 1067.9  | 4.6       |
| 20°-30°   | 1479.1  | 6.4       |
| 30°-40°   | 2062.4  | 8.9       |
| 40°-50°   | 3205.6  | 13.9      |
| 50°-60°   | 5146.3  | 22.3      |
| 60°-70°   | 5821.3  | 25.2      |
| 70°-80°   | 3418.9  | 14.8      |
| 80°-90°   | 397.7   | 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°    | 23087.0 | 100.0     |
| 0°-180°   | 23087.0 | 100.0     |

**Coefficient of Utilization**



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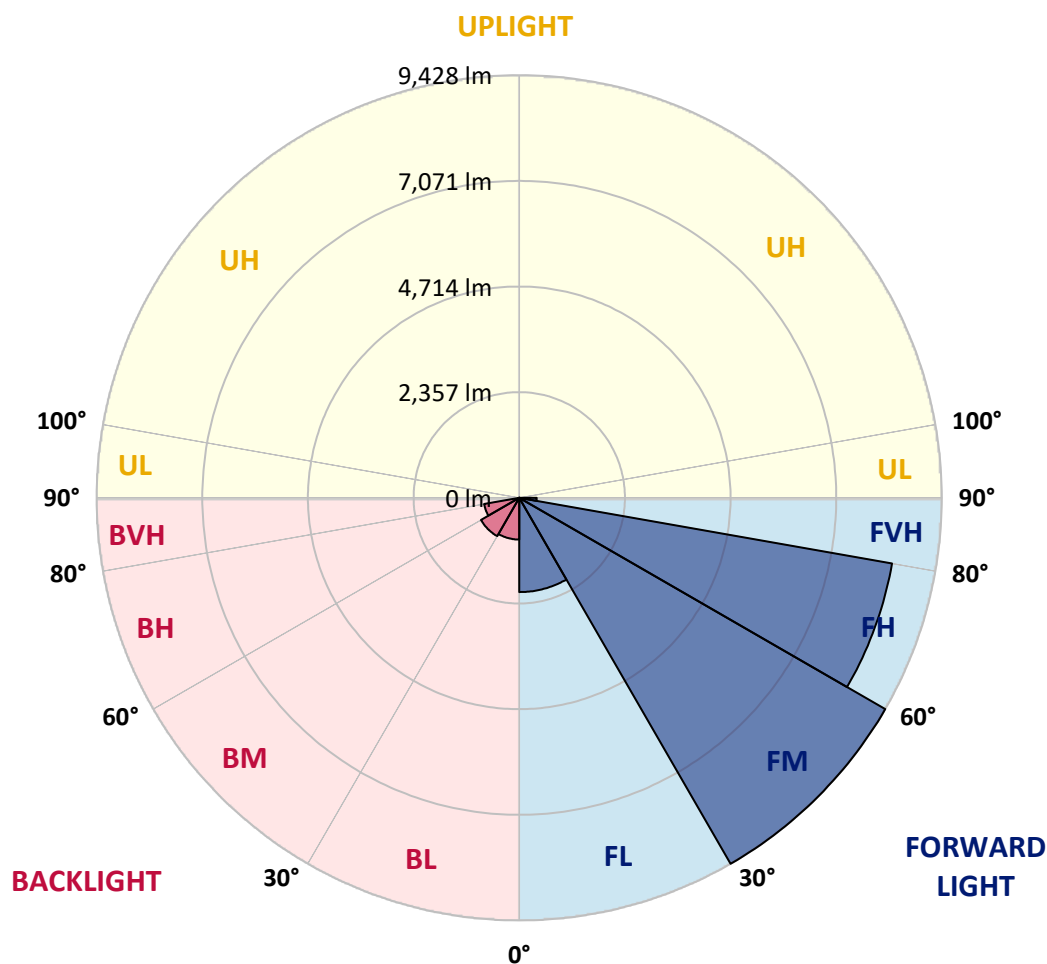
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2103.8 | 9.1       |                         |      |          |
| FM   | (30°-60°)   | 9428.1 | 40.8      |                         |      |          |
| FH   | (60°-80°)   | 8445.0 | 36.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 388.8  | 1.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 931.2  | 4.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 986.2  | 4.3       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 795.1  | 3.4       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 8.9    | 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°     | 64°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5834.1 | 5834.1 | 5834.1 | 5834.1  | 5834.1  | 5834.1  | 5834.1  | 5834.1  | 5834.1  | 5834.1  | 5834.1  |
| 2.5°  | 5885.9 | 5871.2 | 5883.0 | 5908.4  | 5921.1  | 5921.1  | 5930.8  | 5919.1  | 5923.0  | 5894.7  | 5853.7  |
| 5°    | 5517.6 | 5495.1 | 5527.4 | 5598.7  | 5686.6  | 5761.8  | 5873.2  | 5931.8  | 5937.7  | 5938.7  | 5890.8  |
| 7.5°  | 5121.0 | 5100.5 | 5148.3 | 5232.3  | 5345.7  | 5485.4  | 5679.8  | 5849.8  | 5859.5  | 5951.4  | 5916.2  |
| 10°   | 4798.6 | 4783.9 | 4839.6 | 4929.5  | 5062.4  | 5218.7  | 5457.0  | 5693.4  | 5721.8  | 5925.0  | 5912.3  |
| 12.5° | 4542.6 | 4530.9 | 4583.7 | 4687.2  | 4823.0  | 4995.9  | 5245.0  | 5519.6  | 5557.7  | 5865.4  | 5892.7  |
| 15°   | 4356.1 | 4354.1 | 4398.1 | 4497.7  | 4648.2  | 4809.3  | 5064.3  | 5358.4  | 5402.3  | 5800.9  | 5889.8  |
| 17.5° | 4258.4 | 4261.3 | 4293.5 | 4378.5  | 4507.5  | 4667.7  | 4911.9  | 5222.6  | 5270.4  | 5743.3  | 5904.5  |
| 20°   | 4248.6 | 4251.5 | 4269.1 | 4317.0  | 4421.5  | 4563.2  | 4787.9  | 5108.3  | 5158.1  | 5700.3  | 5927.9  |
| 22.5° | 4334.6 | 4332.6 | 4337.5 | 4332.6  | 4391.2  | 4498.7  | 4705.8  | 5020.4  | 5078.0  | 5672.0  | 5946.5  |
| 25°   | 4499.7 | 4496.7 | 4494.8 | 4458.6  | 4419.6  | 4477.2  | 4671.6  | 4970.5  | 5025.2  | 5651.4  | 5957.2  |
| 27.5° | 4729.2 | 4727.3 | 4724.4 | 4664.8  | 4547.5  | 4511.4  | 4675.5  | 4952.0  | 4997.9  | 5634.8  | 5955.3  |
| 30°   | 5031.1 | 5044.8 | 5040.9 | 4957.8  | 4775.2  | 4615.9  | 4716.5  | 4942.2  | 4982.3  | 5602.6  | 5934.7  |
| 32.5° | 5385.7 | 5413.1 | 5434.6 | 5345.7  | 5117.1  | 4823.0  | 4811.3  | 4952.9  | 4982.3  | 5578.2  | 5897.6  |
| 35°   | 5754.0 | 5789.2 | 5868.3 | 5837.1  | 5536.2  | 5134.7  | 4974.4  | 5017.4  | 5041.8  | 5591.9  | 5880.0  |
| 37.5° | 6116.5 | 6158.5 | 6330.4 | 6421.3  | 6085.2  | 5546.9  | 5228.4  | 5176.7  | 5189.4  | 5674.9  | 5899.6  |
| 40°   | 6537.5 | 6601.0 | 6861.8 | 7008.4  | 6740.7  | 6098.9  | 5608.5  | 5450.2  | 5455.1  | 5857.6  | 5990.4  |
| 42.5° | 7090.4 | 7155.9 | 7438.2 | 7667.8  | 7479.2  | 6796.4  | 6124.3  | 5868.3  | 5863.4  | 6199.5  | 6204.4  |
| 45°   | 7764.5 | 7832.9 | 8125.0 | 8380.0  | 8295.0  | 7622.9  | 6784.7  | 6478.9  | 6473.0  | 6738.7  | 6609.8  |
| 47.5° | 8528.5 | 8595.9 | 8856.7 | 9119.5  | 9211.3  | 8588.0  | 7625.8  | 7312.2  | 7298.5  | 7488.0  | 7236.0  |
| 50°   | 9184.0 | 9227.9 | 9468.2 | 9821.9  | 10236.1 | 9774.0  | 8672.1  | 8370.2  | 8355.5  | 8483.5  | 8155.3  |
| 52.5° | 9422.3 | 9447.7 | 9692.0 | 10187.3 | 11220.8 | 11380.1 | 10046.6 | 9657.8  | 9647.0  | 9702.7  | 9379.3  |
| 55°   | 8939.7 | 8985.6 | 9285.6 | 10020.2 | 11754.2 | 13195.2 | 11781.6 | 11252.1 | 11171.0 | 11050.8 | 10659.1 |
| 57.5° | 7624.8 | 7698.1 | 8020.5 | 8997.4  | 11505.1 | 14635.1 | 14331.3 | 13055.5 | 12936.3 | 12201.6 | 11699.5 |
| 60°   | 5713.0 | 5802.9 | 6070.5 | 7124.6  | 10175.5 | 15148.0 | 17117.5 | 15065.0 | 14796.3 | 13118.0 | 12655.9 |
| 62.5° | 3920.4 | 3965.3 | 4147.0 | 4833.8  | 7493.9  | 14307.9 | 19448.4 | 17756.4 | 17266.0 | 14114.4 | 13690.5 |
| 65°   | 2994.2 | 3009.9 | 3084.1 | 3320.5  | 4462.5  | 11622.3 | 20375.5 | 21307.5 | 20714.5 | 15306.3 | 14764.1 |
| 67.5° | 2413.0 | 2400.3 | 2502.9 | 2840.9  | 2988.4  | 7090.4  | 19294.0 | 24667.1 | 24389.6 | 16899.6 | 15844.6 |
| 69°   | 2127.7 | 2110.1 | 2214.7 | 2607.4  | 2806.7  | 4687.2  | 17248.4 | 25430.0 | 25447.6 | 17740.7 | 15918.8 |
| 70°   | 1914.7 | 1926.5 | 2030.0 | 2468.7  | 2745.1  | 3679.1  | 15294.6 | 25235.6 | 25374.3 | 18055.3 | 15473.3 |
| 72.5° | 1278.8 | 1310.0 | 1518.1 | 2049.6  | 2639.6  | 2784.2  | 9234.8  | 21655.2 | 22188.6 | 17347.0 | 13275.3 |
| 75°   | 721.0  | 744.4  | 991.6  | 1545.5  | 2487.2  | 2651.3  | 4877.7  | 15954.0 | 16469.8 | 14506.2 | 10237.1 |
| 77.5° | 353.6  | 366.3  | 560.7  | 997.4   | 2079.8  | 2526.3  | 2766.6  | 10836.9 | 11426.0 | 9468.2  | 5790.2  |
| 80°   | 149.5  | 156.3  | 280.4  | 615.5   | 1486.9  | 2411.0  | 2054.4  | 6669.4  | 6742.7  | 3709.3  | 1542.5  |
| 82.5° | 57.6   | 59.6   | 118.2  | 383.9   | 944.7   | 1879.6  | 1718.4  | 3162.3  | 3086.1  | 698.5   | 351.7   |
| 85°   | 6.8    | 7.8    | 43.0   | 230.6   | 525.6   | 967.1   | 1396.0  | 1362.8  | 1261.2  | 138.7   | 180.7   |
| 87.5° | 0.0    | 0.0    | 2.9    | 70.3    | 156.3   | 453.3   | 725.8   | 565.6   | 509.9   | 44.9    | 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°    | 5834.1  | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 | 5834.1 |
| 2.5°  | 5819.5  | 5809.7 | 5756.9 | 5680.7 | 5608.5 | 5518.6 | 5432.6 | 5380.8 | 5339.8 | 5312.5 | 5344.7 |
| 5°    | 5835.1  | 5792.1 | 5631.9 | 5426.8 | 5225.5 | 4998.9 | 4787.9 | 4609.1 | 4538.7 | 4460.6 | 4495.8 |
| 7.5°  | 5830.2  | 5749.1 | 5460.9 | 5095.6 | 4726.3 | 4344.3 | 3982.9 | 3704.5 | 3559.9 | 3418.2 | 3454.4 |
| 10°   | 5805.8  | 5669.0 | 5232.3 | 4691.1 | 4138.2 | 3589.2 | 3076.3 | 2686.5 | 2468.7 | 2271.3 | 2299.7 |
| 12.5° | 5752.1  | 5561.6 | 4962.7 | 4228.1 | 3488.6 | 2764.7 | 2163.9 | 1664.7 | 1397.0 | 1278.8 | 1293.4 |
| 15°   | 5719.8  | 5457.0 | 4677.5 | 3759.2 | 2794.9 | 1925.5 | 1322.7 | 983.8  | 861.6  | 822.6  | 827.4  |
| 17.5° | 5704.2  | 5356.4 | 4382.4 | 3222.8 | 2085.7 | 1226.0 | 854.8  | 754.2  | 727.8  | 721.0  | 722.9  |
| 20°   | 5688.6  | 5254.8 | 4078.6 | 2692.4 | 1437.0 | 824.5  | 702.4  | 673.1  | 663.3  | 654.5  | 656.5  |
| 22.5° | 5662.2  | 5157.1 | 3752.3 | 2155.1 | 969.1  | 669.2  | 633.0  | 604.7  | 584.2  | 573.4  | 575.4  |
| 25°   | 5630.0  | 5054.5 | 3419.2 | 1605.1 | 707.3  | 596.9  | 562.7  | 522.6  | 498.2  | 478.7  | 479.7  |
| 27.5° | 5578.2  | 4928.5 | 3075.3 | 1168.4 | 594.0  | 534.4  | 488.5  | 444.5  | 403.5  | 381.0  | 381.0  |
| 30°   | 5505.9  | 4785.9 | 2693.3 | 836.2  | 532.4  | 472.8  | 417.1  | 362.4  | 318.5  | 298.0  | 296.0  |
| 32.5° | 5425.8  | 4637.4 | 2307.5 | 634.0  | 483.6  | 415.2  | 351.7  | 294.1  | 255.0  | 238.4  | 237.4  |
| 35°   | 5357.4  | 4477.2 | 1922.6 | 531.4  | 434.7  | 359.5  | 290.1  | 241.3  | 210.0  | 196.4  | 195.4  |
| 37.5° | 5313.4  | 4317.0 | 1547.4 | 474.8  | 390.8  | 307.7  | 243.3  | 199.3  | 176.8  | 166.1  | 165.1  |
| 40°   | 5306.6  | 4197.8 | 1204.5 | 431.8  | 349.7  | 261.8  | 203.2  | 169.0  | 148.5  | 136.8  | 135.8  |
| 42.5° | 5395.5  | 4129.4 | 924.2  | 395.6  | 307.7  | 221.8  | 172.9  | 144.6  | 123.1  | 111.4  | 110.4  |
| 45°   | 5629.0  | 4150.9 | 711.2  | 363.4  | 265.7  | 187.6  | 146.5  | 120.2  | 100.6  | 91.8   | 89.9   |
| 47.5° | 6054.9  | 4299.4 | 565.6  | 331.2  | 225.7  | 159.2  | 125.0  | 99.6   | 83.0   | 74.2   | 73.3   |
| 50°   | 6813.0  | 4648.2 | 472.8  | 296.0  | 188.5  | 135.8  | 103.6  | 81.1   | 67.4   | 59.6   | 58.6   |
| 52.5° | 7819.2  | 5269.5 | 422.0  | 261.8  | 156.3  | 115.3  | 85.0   | 64.5   | 52.8   | 46.9   | 45.9   |
| 55°   | 8929.0  | 6021.7 | 388.8  | 224.7  | 128.0  | 95.7   | 67.4   | 50.8   | 41.0   | 36.1   | 34.2   |
| 57.5° | 10012.4 | 6673.3 | 357.6  | 188.5  | 106.5  | 78.2   | 53.7   | 40.1   | 32.2   | 27.4   | 26.4   |
| 60°   | 11007.9 | 7272.1 | 321.4  | 151.4  | 86.9   | 61.5   | 42.0   | 31.3   | 25.4   | 20.5   | 20.5   |
| 62.5° | 12073.7 | 7735.2 | 271.6  | 118.2  | 71.3   | 46.9   | 34.2   | 28.3   | 20.5   | 17.6   | 16.6   |
| 65°   | 13203.0 | 8079.1 | 213.0  | 91.8   | 55.7   | 35.2   | 28.3   | 29.3   | 16.6   | 12.7   | 11.7   |
| 67.5° | 14037.3 | 8010.7 | 157.3  | 72.3   | 43.0   | 27.4   | 27.4   | 31.3   | 14.7   | 9.8    | 8.8    |
| 69°   | 13853.6 | 7454.8 | 131.9  | 62.5   | 37.1   | 23.4   | 25.4   | 31.3   | 13.7   | 8.8    | 7.8    |
| 70°   | 13321.2 | 6839.4 | 116.3  | 55.7   | 33.2   | 21.5   | 24.4   | 30.3   | 12.7   | 8.8    | 7.8    |
| 72.5° | 11093.8 | 5151.3 | 90.9   | 42.0   | 26.4   | 17.6   | 20.5   | 26.4   | 12.7   | 8.8    | 6.8    |
| 75°   | 8344.8  | 3297.1 | 69.4   | 30.3   | 19.5   | 13.7   | 15.6   | 19.5   | 12.7   | 7.8    | 6.8    |
| 77.5° | 4540.7  | 1188.9 | 49.8   | 20.5   | 13.7   | 10.7   | 10.7   | 14.7   | 11.7   | 5.9    | 3.9    |
| 80°   | 1167.4  | 298.9  | 31.3   | 13.7   | 10.7   | 7.8    | 6.8    | 9.8    | 6.8    | 1.0    | 0.0    |
| 82.5° | 288.2   | 67.4   | 16.6   | 9.8    | 7.8    | 2.9    | 2.9    | 4.9    | 2.9    | 0.0    | 0.0    |
| 85°   | 158.3   | 33.2   | 10.7   | 6.8    | 3.9    | 0.0    | 0.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 81.1    | 9.8    | 2.9    | 2.0    | 1.0    | 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)