

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: P194554

Luminaire Tested: **GAN-AF-06-LED-U-SL4-7060-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-SL4-7060-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

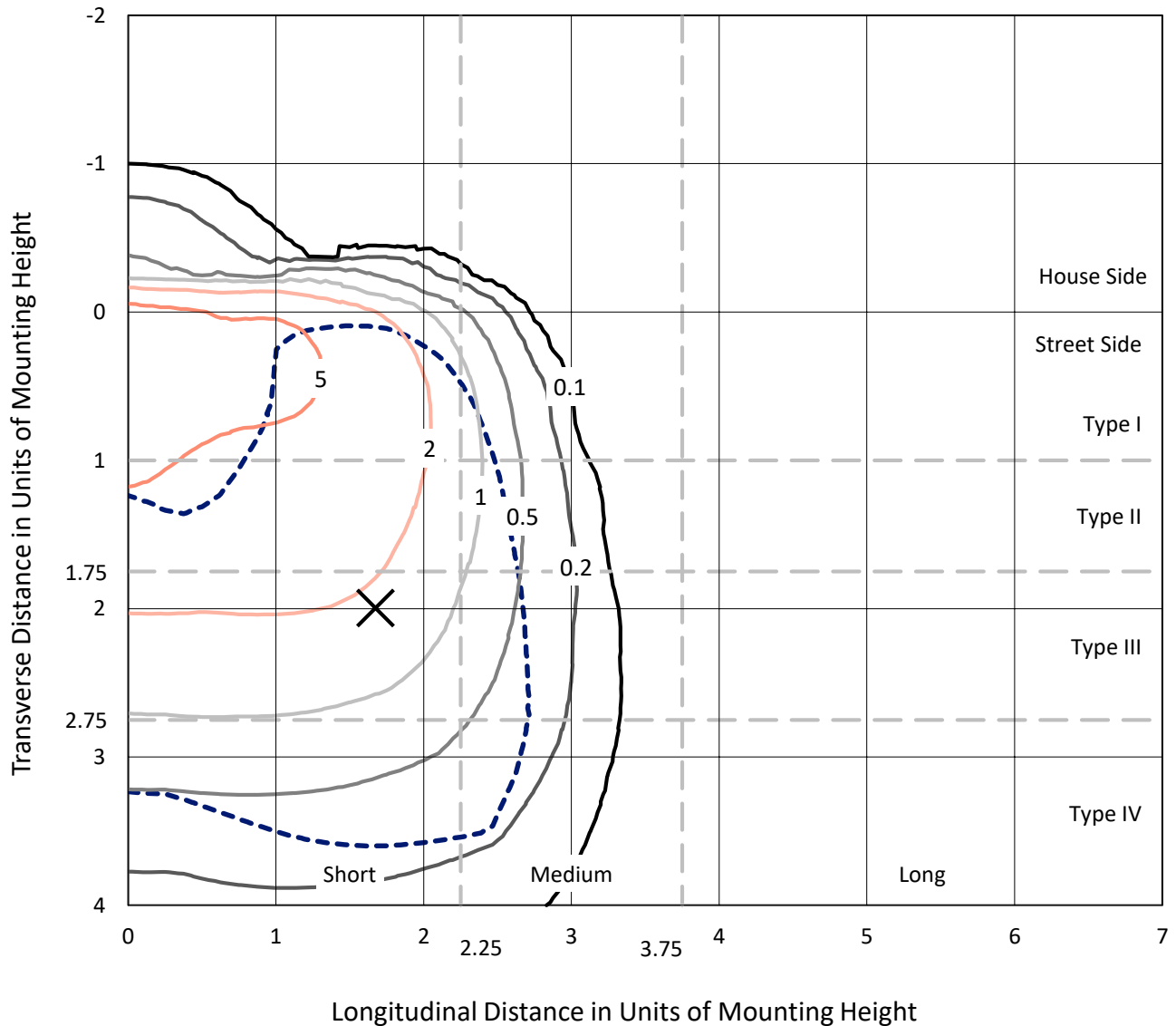
Lumens per Lamp: N/A  
Luminaire Lumens: 28894 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

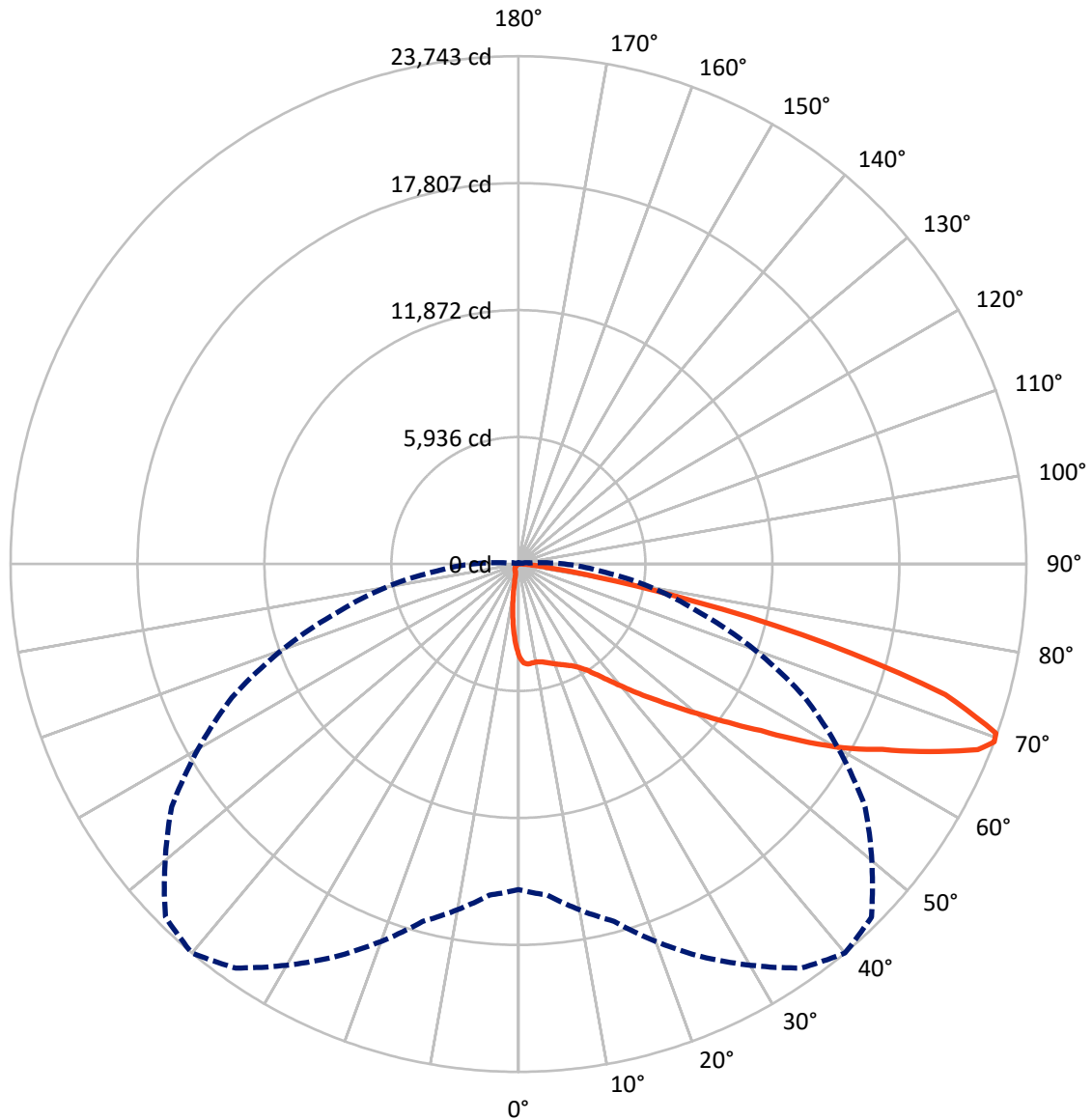
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1690.5   | 0.0    | 1690.5  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 27203.5  | 0.0    | 27203.5 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 28894.0  | 0.0    | 28894.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 350.0   | 1.2       |
| 10°-20°   | 860.8   | 3.0       |
| 20°-30°   | 1449.8  | 5.0       |
| 30°-40°   | 2373.4  | 8.2       |
| 40°-50°   | 4109.4  | 14.2      |
| 50°-60°   | 6472.8  | 22.4      |
| 60°-70°   | 8453.2  | 29.3      |
| 70°-80°   | 4353.8  | 15.1      |
| 80°-90°   | 470.9   | 1.6       |
| 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°    | 28894.0 | 100.0     |
| 0°-180°   | 28894.0 | 100.0     |

**Coefficient of Utilization**



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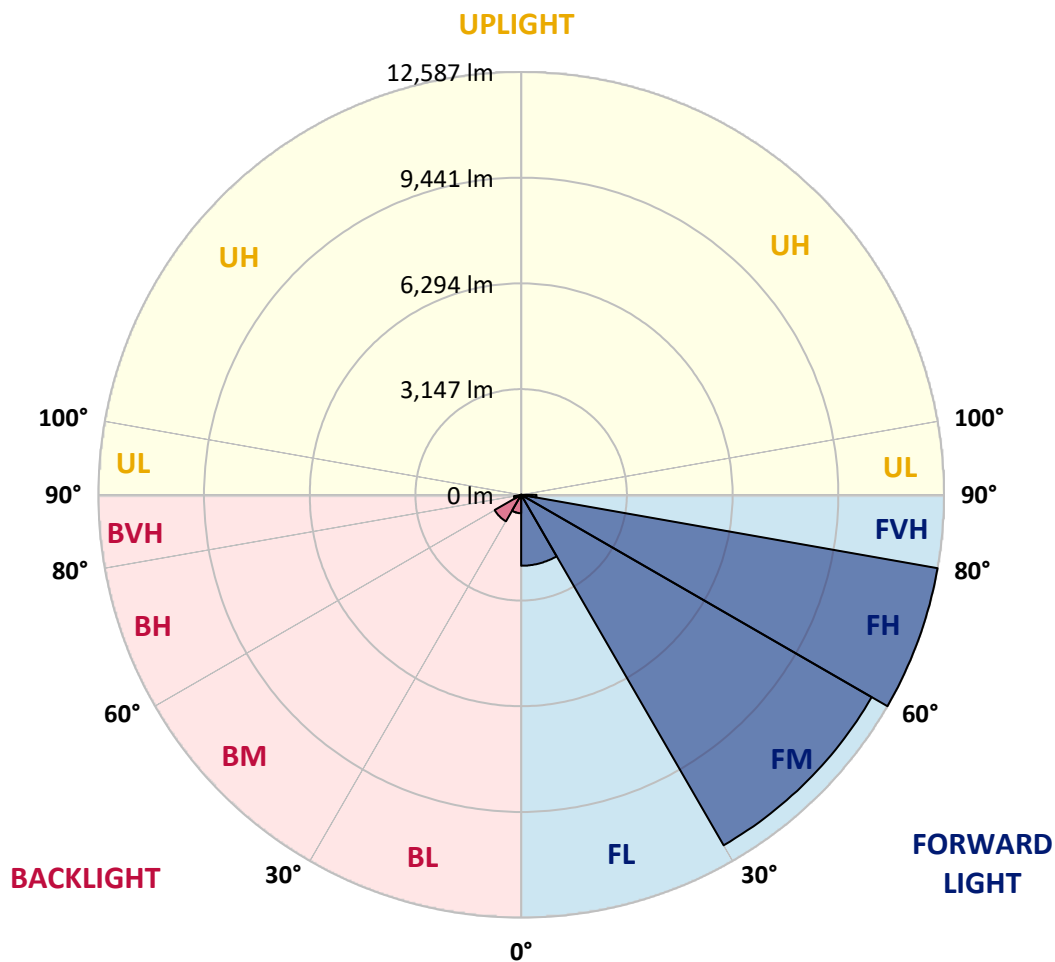
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2113.0  | 7.3       |                         |      |        |
| FM   | (30°-60°)   | 12047.0 | 41.7      |                         |      |        |
| FH   | (60°-80°)   | 12587.4 | 43.6      |                         |      | G5     |
| FVH  | (80°-90°)   | 456.2   | 1.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 547.6   | 1.9       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 908.6   | 3.1       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 219.5   | 0.8       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 14.8    | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  | 4316.9  |
| 2.5°  | 4740.0  | 4714.2  | 4698.7  | 4678.1  | 4652.3  | 4629.9  | 4621.3  | 4557.7  | 4497.5  | 4414.9  | 4320.4  |
| 5°    | 4827.7  | 4819.1  | 4791.6  | 4764.1  | 4733.1  | 4698.7  | 4679.8  | 4604.1  | 4518.1  | 4397.7  | 4232.6  |
| 7.5°  | 4836.3  | 4826.0  | 4791.6  | 4753.8  | 4710.8  | 4669.5  | 4636.8  | 4561.1  | 4482.0  | 4359.9  | 4158.7  |
| 10°   | 4822.6  | 4810.5  | 4784.7  | 4743.4  | 4690.1  | 4650.6  | 4617.9  | 4545.7  | 4478.6  | 4368.5  | 4144.9  |
| 12.5° | 4807.1  | 4795.0  | 4783.0  | 4762.4  | 4715.9  | 4688.4  | 4660.9  | 4592.1  | 4531.9  | 4439.0  | 4194.8  |
| 15°   | 4822.6  | 4815.7  | 4829.4  | 4820.8  | 4795.0  | 4771.0  | 4743.4  | 4681.5  | 4626.5  | 4549.1  | 4286.0  |
| 17.5° | 4887.9  | 4887.9  | 4930.9  | 4936.1  | 4912.0  | 4877.6  | 4838.0  | 4776.1  | 4729.7  | 4664.3  | 4394.3  |
| 20°   | 5041.0  | 5035.8  | 5090.9  | 5101.2  | 5042.7  | 4989.4  | 4930.9  | 4855.2  | 4819.1  | 4777.8  | 4500.9  |
| 22.5° | 5304.1  | 5280.0  | 5312.7  | 5302.4  | 5187.2  | 5104.6  | 5032.4  | 4939.5  | 4920.6  | 4901.7  | 4619.6  |
| 25°   | 5646.4  | 5632.6  | 5655.0  | 5553.5  | 5350.6  | 5238.8  | 5152.8  | 5047.9  | 5047.9  | 5066.8  | 4753.8  |
| 27.5° | 6143.4  | 6091.8  | 6016.2  | 5837.3  | 5532.9  | 5390.1  | 5297.2  | 5185.5  | 5214.7  | 5285.2  | 4930.9  |
| 30°   | 6652.5  | 6595.8  | 6422.1  | 6146.9  | 5754.7  | 5605.1  | 5496.8  | 5379.8  | 5448.6  | 5577.6  | 5168.3  |
| 32.5° | 7154.7  | 7091.1  | 6845.1  | 6497.7  | 6072.9  | 5923.3  | 5818.4  | 5689.4  | 5804.6  | 6021.3  | 5515.7  |
| 35°   | 7641.5  | 7584.7  | 7300.9  | 6891.6  | 6496.0  | 6372.2  | 6275.9  | 6164.1  | 6312.0  | 6614.7  | 6005.8  |
| 37.5° | 8188.4  | 8126.5  | 7780.8  | 7337.0  | 7010.3  | 6920.8  | 6850.3  | 6738.5  | 6996.5  | 7440.2  | 6688.6  |
| 40°   | 8860.8  | 8755.9  | 8289.8  | 7847.8  | 7605.3  | 7562.3  | 7514.2  | 7498.7  | 7899.4  | 8513.4  | 7598.5  |
| 42.5° | 9631.4  | 9459.4  | 8823.0  | 8386.2  | 8258.9  | 8289.8  | 8277.8  | 8346.6  | 9029.4  | 9848.1  | 8706.1  |
| 45°   | 10401.9 | 10180.0 | 9416.4  | 8960.6  | 8977.8  | 9086.2  | 9153.2  | 9428.4  | 10444.9 | 11378.8 | 9897.9  |
| 47.5° | 11055.4 | 10837.0 | 9985.7  | 9581.5  | 9787.9  | 10001.1 | 10183.4 | 10704.6 | 11899.9 | 12885.4 | 10825.0 |
| 50°   | 11614.4 | 11408.0 | 10589.3 | 10264.3 | 10728.6 | 11072.6 | 11368.4 | 12140.7 | 13465.0 | 14032.5 | 11475.1 |
| 52.5° | 12071.9 | 11934.3 | 11215.4 | 11046.8 | 11803.6 | 12307.5 | 12740.9 | 13666.2 | 14851.2 | 14964.7 | 11980.7 |
| 55°   | 12517.3 | 12419.3 | 11887.8 | 11977.3 | 13066.0 | 13752.2 | 14300.8 | 15284.6 | 16044.8 | 15742.1 | 12465.7 |
| 57.5° | 13029.9 | 12940.4 | 12654.9 | 13157.1 | 14725.7 | 15589.0 | 16187.6 | 16719.0 | 17095.7 | 16536.7 | 12923.2 |
| 60°   | 13552.7 | 13501.1 | 13508.0 | 14467.7 | 16631.3 | 17460.3 | 17790.5 | 17928.1 | 18127.6 | 17284.8 | 12949.0 |
| 62.5° | 14051.5 | 14149.5 | 14483.2 | 15926.1 | 18456.1 | 19092.4 | 19259.3 | 19395.1 | 19161.2 | 17403.5 | 11963.5 |
| 65°   | 14895.9 | 15055.9 | 15852.2 | 17878.2 | 20463.2 | 21144.3 | 21316.3 | 20850.2 | 19324.6 | 15869.4 | 9731.1  |
| 67.5° | 15308.7 | 15601.1 | 17021.7 | 19697.8 | 22410.1 | 23166.9 | 23103.2 | 20944.8 | 17341.6 | 12101.1 | 6244.9  |
| 69°   | 15222.7 | 15534.0 | 17291.7 | 20255.1 | 23056.8 | 23743.0 | 23338.8 | 19787.3 | 14773.8 | 8766.3  | 3833.6  |
| 70°   | 14882.2 | 15196.9 | 17152.4 | 20234.5 | 23139.3 | 23682.8 | 22902.0 | 18358.1 | 12491.5 | 6410.0  | 2397.5  |
| 72.5° | 12427.9 | 12699.6 | 15227.9 | 18289.3 | 21316.3 | 20874.2 | 19159.5 | 12718.6 | 6086.7  | 1745.7  | 540.0   |
| 75°   | 7650.0  | 7801.4  | 10926.4 | 13778.0 | 16099.8 | 14964.7 | 12765.0 | 6327.5  | 1814.5  | 493.6   | 299.3   |
| 77.5° | 4041.7  | 4110.5  | 5981.8  | 8121.3  | 10205.8 | 8444.6  | 6542.4  | 2468.0  | 835.9   | 309.6   | 216.7   |
| 80°   | 2388.9  | 2440.5  | 3221.3  | 3713.2  | 4416.7  | 3689.2  | 2615.9  | 1515.2  | 598.5   | 194.3   | 192.6   |
| 82.5° | 1367.3  | 1400.0  | 2335.6  | 2063.9  | 1740.5  | 1486.0  | 1302.0  | 1436.1  | 359.5   | 130.7   | 199.5   |
| 85°   | 502.2   | 509.1   | 1314.0  | 1570.3  | 1035.4  | 615.7   | 646.7   | 1190.2  | 96.3    | 82.6    | 156.5   |
| 87.5° | 233.9   | 228.7   | 675.9   | 961.4   | 605.4   | 390.4   | 503.9   | 261.4   | 37.8    | 53.3    | 43.0    |
| 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°    | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 | 4316.9 |
| 2.5°  | 4265.3 | 4201.7 | 4086.4 | 3967.8 | 3847.4 | 3754.5 | 3663.4 | 3591.1 | 3567.0 | 3522.3 | 3525.8 |
| 5°    | 4134.6 | 4017.7 | 3776.9 | 3532.6 | 3278.1 | 3068.3 | 2870.5 | 2710.5 | 2633.1 | 2554.0 | 2554.0 |
| 7.5°  | 4021.1 | 3850.8 | 3474.2 | 3076.9 | 2665.8 | 2320.1 | 2008.8 | 1774.9 | 1645.9 | 1542.7 | 1541.0 |
| 10°   | 3978.1 | 3747.6 | 3221.3 | 2652.1 | 2079.3 | 1608.1 | 1238.3 | 1001.0 | 878.9  | 799.7  | 796.3  |
| 12.5° | 3997.0 | 3711.5 | 3027.0 | 2259.9 | 1541.0 | 1033.7 | 717.2  | 564.1  | 512.5  | 488.4  | 488.4  |
| 15°   | 4052.0 | 3701.2 | 2832.7 | 1876.4 | 1088.7 | 646.7  | 476.4  | 435.1  | 431.7  | 431.7  | 431.7  |
| 17.5° | 4119.1 | 3704.6 | 2633.1 | 1503.2 | 741.3  | 462.6  | 411.1  | 405.9  | 409.3  | 409.3  | 409.3  |
| 20°   | 4187.9 | 3706.4 | 2418.2 | 1157.5 | 522.8  | 402.5  | 387.0  | 385.3  | 388.7  | 388.7  | 390.4  |
| 22.5° | 4272.2 | 3715.0 | 2203.2 | 865.1  | 431.7  | 380.1  | 368.1  | 368.1  | 369.8  | 369.8  | 368.1  |
| 25°   | 4368.5 | 3732.2 | 1979.6 | 641.5  | 393.9  | 364.6  | 354.3  | 352.6  | 354.3  | 352.6  | 350.9  |
| 27.5° | 4488.9 | 3756.2 | 1730.2 | 502.2  | 376.7  | 349.1  | 340.5  | 340.5  | 338.8  | 337.1  | 335.4  |
| 30°   | 4640.3 | 3783.7 | 1449.9 | 426.5  | 359.5  | 335.4  | 326.8  | 325.1  | 323.3  | 319.9  | 319.9  |
| 32.5° | 4870.7 | 3843.9 | 1173.0 | 387.0  | 340.5  | 316.5  | 309.6  | 309.6  | 306.1  | 302.7  | 301.0  |
| 35°   | 5225.0 | 3962.6 | 925.3  | 362.9  | 319.9  | 295.8  | 287.2  | 287.2  | 283.8  | 282.1  | 280.3  |
| 37.5° | 5715.2 | 4143.2 | 718.9  | 340.5  | 299.3  | 273.5  | 264.9  | 263.1  | 259.7  | 256.3  | 254.5  |
| 40°   | 6367.0 | 4366.8 | 565.8  | 319.9  | 278.6  | 251.1  | 244.2  | 240.8  | 233.9  | 228.7  | 228.7  |
| 42.5° | 7185.7 | 4621.3 | 459.2  | 297.5  | 254.5  | 230.5  | 225.3  | 220.1  | 208.1  | 202.9  | 201.2  |
| 45°   | 8042.2 | 4850.1 | 388.7  | 271.7  | 230.5  | 209.8  | 206.4  | 197.8  | 182.3  | 177.1  | 177.1  |
| 47.5° | 8659.6 | 4903.4 | 342.3  | 247.7  | 208.1  | 187.5  | 185.7  | 170.3  | 156.5  | 153.1  | 151.3  |
| 50°   | 9044.9 | 4798.5 | 304.4  | 223.6  | 187.5  | 166.8  | 161.7  | 142.8  | 134.2  | 130.7  | 129.0  |
| 52.5° | 9304.6 | 4611.0 | 273.5  | 202.9  | 168.5  | 147.9  | 135.9  | 122.1  | 115.2  | 111.8  | 111.8  |
| 55°   | 9512.7 | 4346.2 | 242.5  | 184.0  | 153.1  | 132.4  | 115.2  | 104.9  | 98.0   | 94.6   | 94.6   |
| 57.5° | 9571.2 | 3986.7 | 211.5  | 168.5  | 137.6  | 117.0  | 98.0   | 91.2   | 82.6   | 80.8   | 80.8   |
| 60°   | 9146.4 | 3338.3 | 187.5  | 149.6  | 123.8  | 101.5  | 86.0   | 77.4   | 68.8   | 67.1   | 65.4   |
| 62.5° | 8026.7 | 2583.3 | 165.1  | 132.4  | 108.4  | 87.7   | 74.0   | 63.6   | 56.8   | 56.8   | 56.8   |
| 65°   | 6122.8 | 1731.9 | 144.5  | 115.2  | 94.6   | 74.0   | 63.6   | 51.6   | 48.2   | 48.2   | 49.9   |
| 67.5° | 3665.1 | 942.5  | 123.8  | 98.0   | 80.8   | 61.9   | 53.3   | 44.7   | 43.0   | 44.7   | 44.7   |
| 69°   | 2148.1 | 553.8  | 111.8  | 87.7   | 70.5   | 55.0   | 46.4   | 39.6   | 43.0   | 44.7   | 44.7   |
| 70°   | 1326.0 | 373.2  | 103.2  | 79.1   | 63.6   | 49.9   | 43.0   | 37.8   | 41.3   | 43.0   | 43.0   |
| 72.5° | 369.8  | 192.6  | 82.6   | 61.9   | 51.6   | 41.3   | 34.4   | 34.4   | 39.6   | 41.3   | 41.3   |
| 75°   | 240.8  | 142.8  | 63.6   | 46.4   | 39.6   | 32.7   | 29.2   | 32.7   | 37.8   | 39.6   | 39.6   |
| 77.5° | 199.5  | 117.0  | 51.6   | 37.8   | 32.7   | 31.0   | 27.5   | 29.2   | 34.4   | 36.1   | 36.1   |
| 80°   | 182.3  | 82.6   | 41.3   | 34.4   | 29.2   | 27.5   | 25.8   | 24.1   | 31.0   | 32.7   | 32.7   |
| 82.5° | 173.7  | 65.4   | 36.1   | 31.0   | 27.5   | 24.1   | 22.4   | 24.1   | 27.5   | 29.2   | 31.0   |
| 85°   | 108.4  | 43.0   | 32.7   | 29.2   | 24.1   | 22.4   | 22.4   | 22.4   | 25.8   | 27.5   | 27.5   |
| 87.5° | 39.6   | 34.4   | 29.2   | 24.1   | 20.6   | 20.6   | 20.6   | 20.6   | 22.4   | 25.8   | 25.8   |
| 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)