

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: P322133

Luminaire Tested: **GAN-SA9C-722-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-722-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33069 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

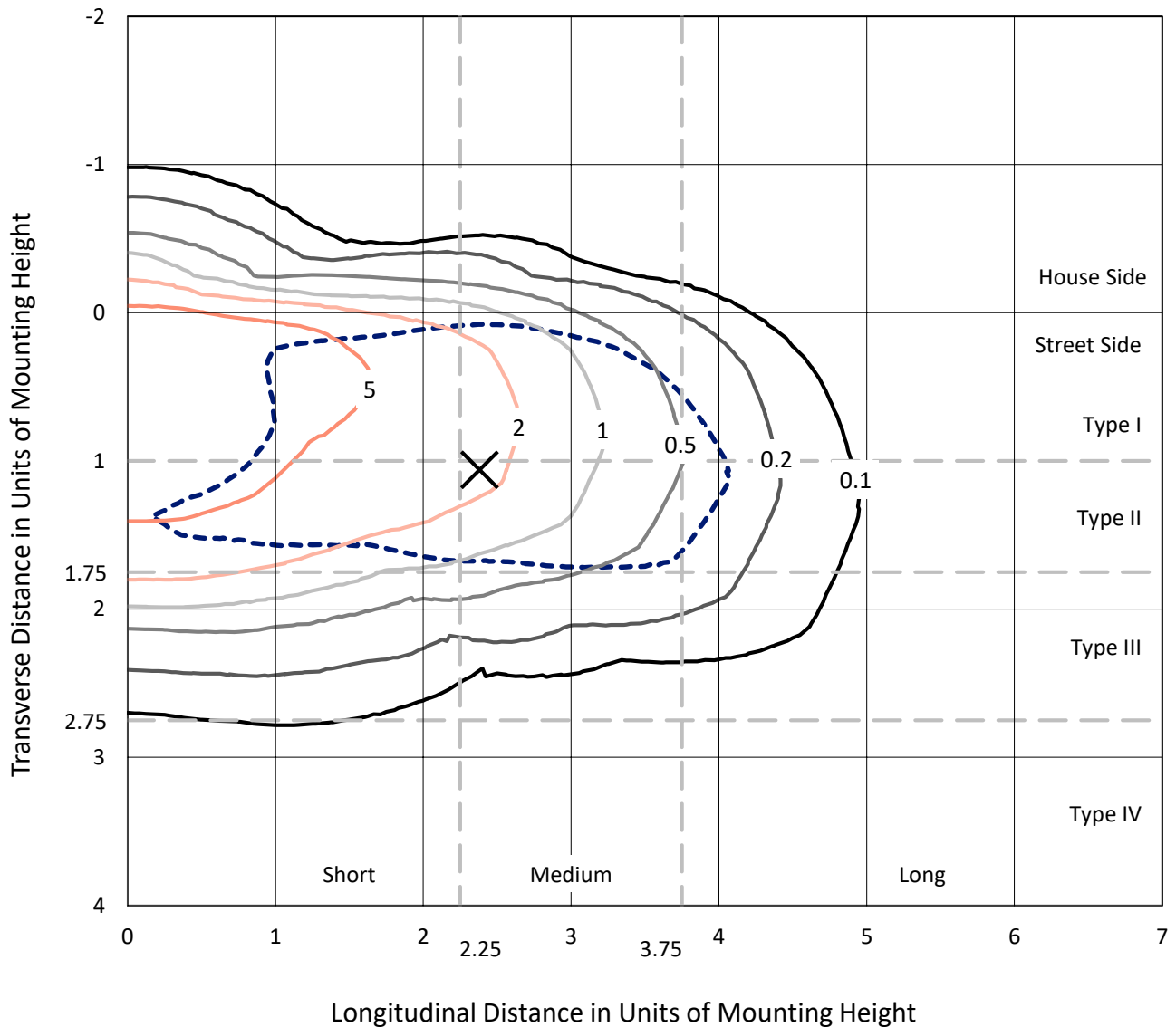
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

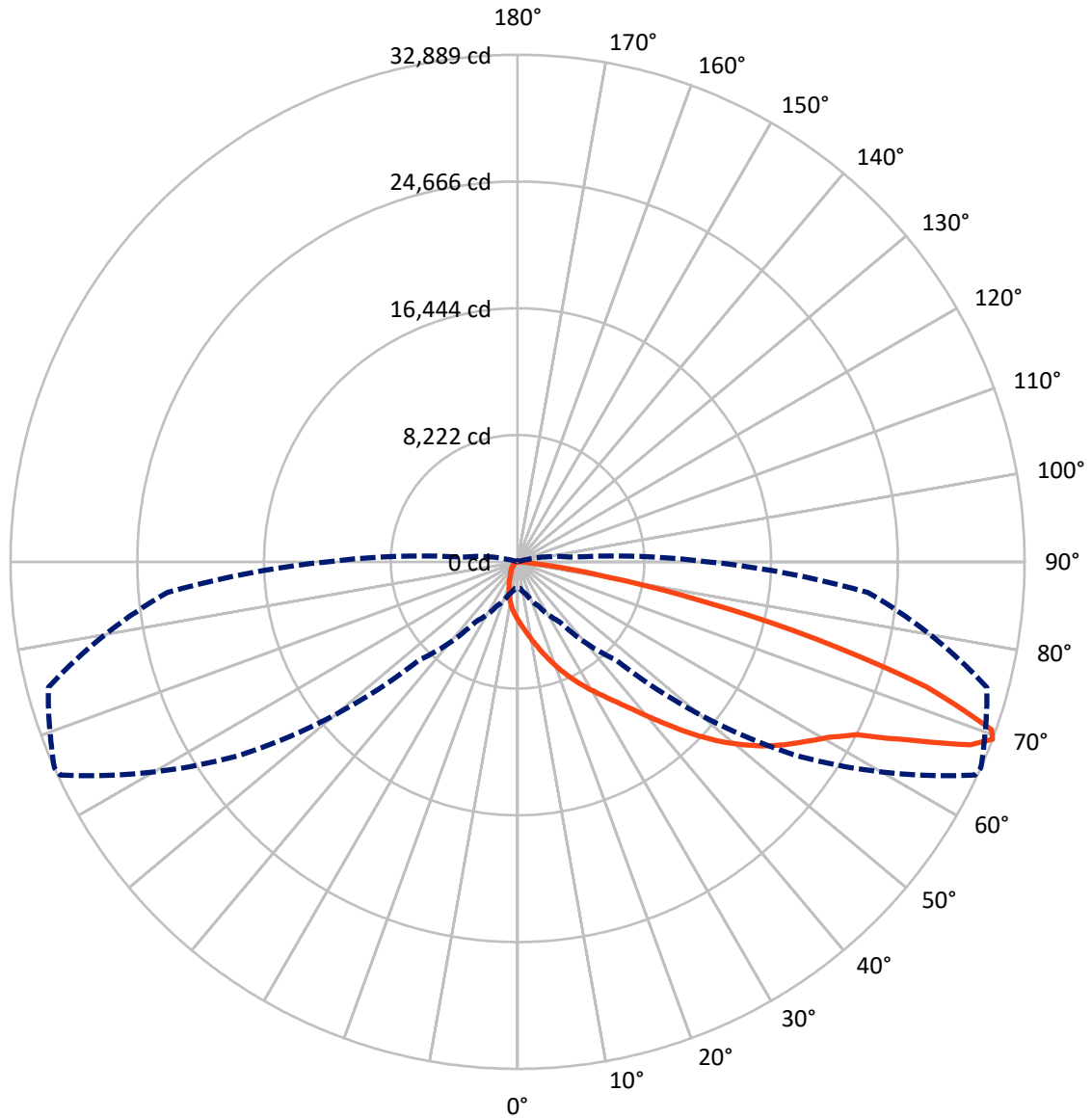
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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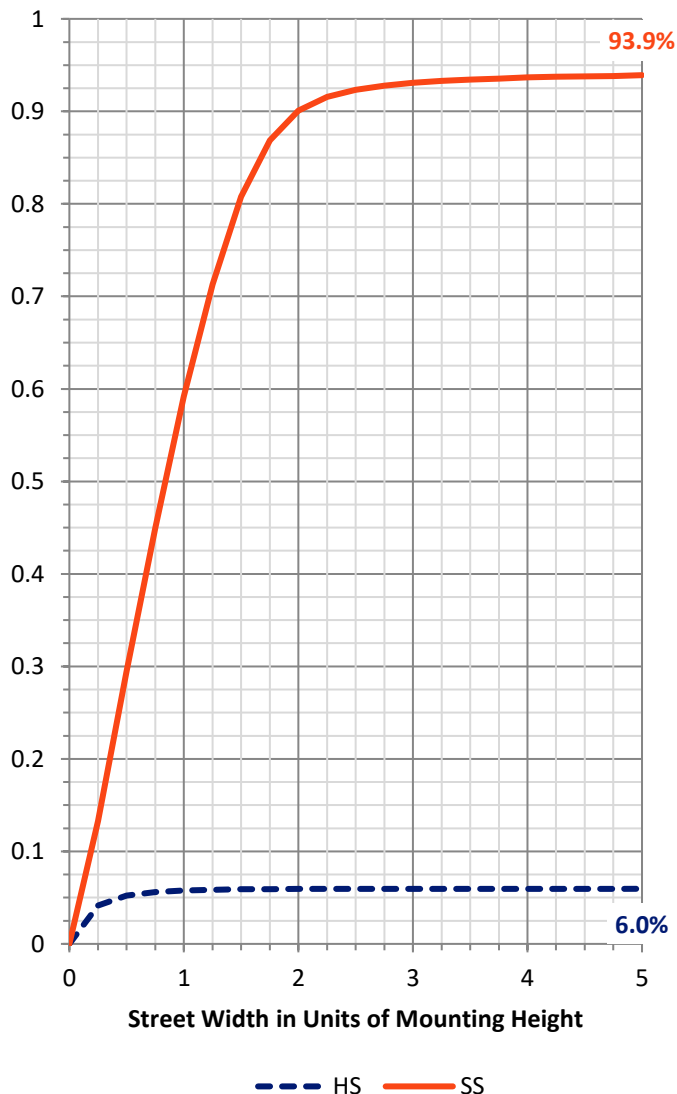
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1983.7   | 0.0    | 1983.7  |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 31085.3  | 0.0    | 31085.3 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 33069.0  | 0.0    | 33069.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 363.8   | 1.1       |
| 10°-20°   | 1082.7  | 3.3       |
| 20°-30°   | 1885.3  | 5.7       |
| 30°-40°   | 3307.8  | 10.0      |
| 40°-50°   | 5536.7  | 16.7      |
| 50°-60°   | 8138.5  | 24.6      |
| 60°-70°   | 8356.2  | 25.3      |
| 70°-80°   | 4125.2  | 12.5      |
| 80°-90°   | 272.8   | 0.8       |
| 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°    | 33069.0 | 100.0     |
| 0°-180°   | 33069.0 | 100.0     |

**Coefficient of Utilization**

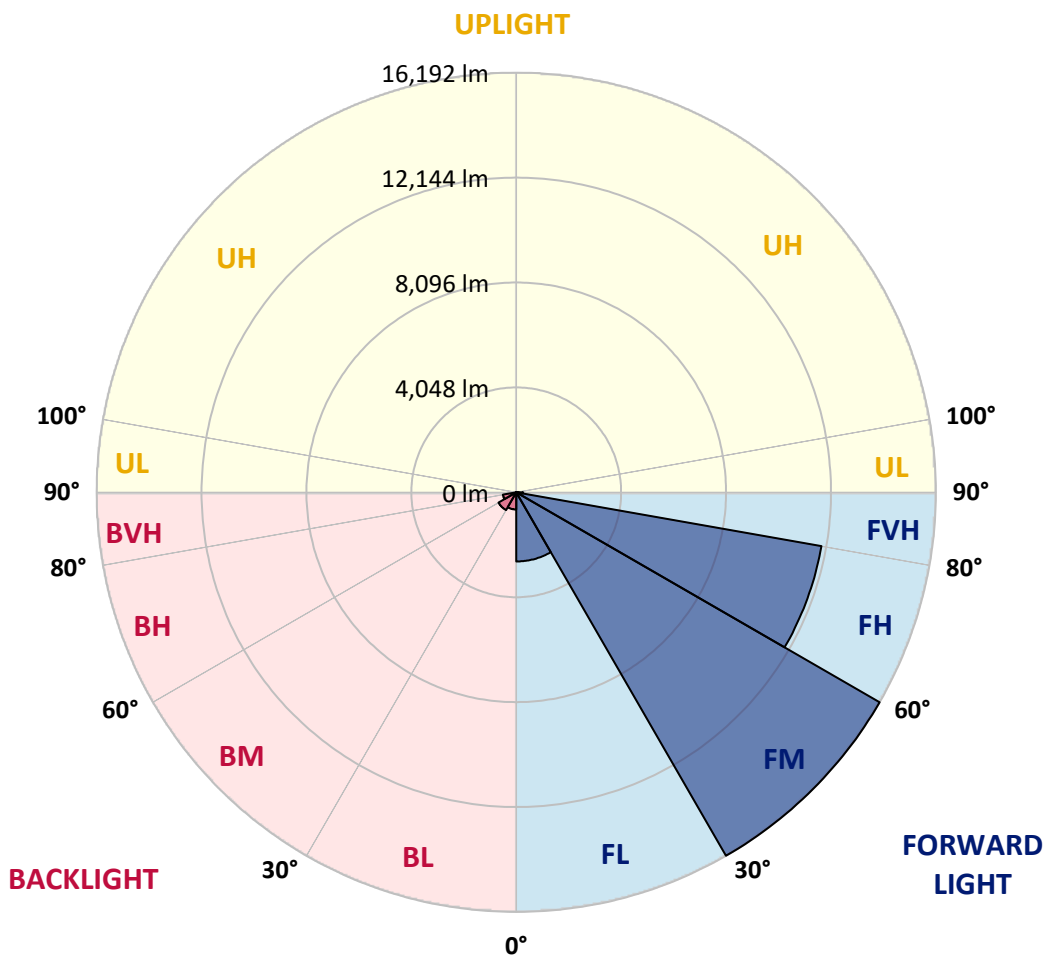


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2668.4  | 8.1       |                         |      |          |
| FM (30°-60°)   | 16192.2 | 49.0      |                         |      |          |
| FH (60°-80°)   | 11958.6 | 36.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 266.2   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 663.4   | 2.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 790.9   | 2.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 522.8   | 1.6       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 6.6     | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  | 3763.4  |
| 2.5°  | 4429.3  | 4410.5  | 4402.6  | 4368.1  | 4308.4  | 4262.8  | 4174.9  | 4072.8  | 4053.9  | 3955.0  | 3834.0  |
| 5°    | 5004.2  | 4988.5  | 4977.5  | 4928.8  | 4867.5  | 4752.9  | 4592.7  | 4402.6  | 4366.5  | 4178.0  | 3936.1  |
| 7.5°  | 5404.7  | 5433.0  | 5433.0  | 5401.6  | 5324.6  | 5238.2  | 5041.9  | 4782.7  | 4737.2  | 4448.2  | 4072.8  |
| 10°   | 5638.8  | 5673.3  | 5700.0  | 5726.7  | 5715.7  | 5681.2  | 5495.8  | 5203.7  | 5148.7  | 4765.5  | 4231.4  |
| 12.5° | 5660.7  | 5695.3  | 5770.7  | 5882.2  | 5990.6  | 6069.1  | 5952.9  | 5670.2  | 5607.3  | 5133.0  | 4419.9  |
| 15°   | 5538.2  | 5574.4  | 5690.6  | 5907.3  | 6169.6  | 6399.0  | 6436.7  | 6186.9  | 6122.5  | 5571.2  | 4655.5  |
| 17.5° | 5324.6  | 5348.2  | 5514.7  | 5814.7  | 6226.2  | 6647.1  | 6874.9  | 6741.4  | 6681.7  | 6072.3  | 4917.8  |
| 20°   | 5166.0  | 5183.3  | 5329.3  | 5651.3  | 6191.6  | 6802.6  | 7289.5  | 7330.4  | 7267.6  | 6609.4  | 5202.1  |
| 22.5° | 5437.7  | 5469.1  | 5473.8  | 5626.2  | 6097.4  | 6879.6  | 7653.9  | 7910.0  | 7862.8  | 7179.6  | 5481.7  |
| 25°   | 6180.6  | 6216.8  | 6097.4  | 6003.2  | 6177.5  | 6914.2  | 7966.5  | 8503.7  | 8466.0  | 7793.7  | 5762.8  |
| 27.5° | 7162.3  | 7200.0  | 7046.1  | 6764.9  | 6596.9  | 7044.5  | 8244.5  | 9106.8  | 9105.3  | 8444.0  | 6066.0  |
| 30°   | 8126.7  | 8164.4  | 8007.3  | 7726.2  | 7339.8  | 7413.6  | 8484.8  | 9738.2  | 9747.7  | 9114.7  | 6388.0  |
| 32.5° | 9138.2  | 9185.4  | 9023.6  | 8662.3  | 8258.7  | 8051.3  | 8822.5  | 10372.8 | 10426.2 | 9892.2  | 6750.8  |
| 35°   | 10288.0 | 10294.3 | 10066.5 | 9688.0  | 9223.1  | 8904.2  | 9364.4  | 11084.3 | 11211.5 | 10855.0 | 7211.0  |
| 37.5° | 11415.7 | 11461.3 | 11274.4 | 10677.5 | 10250.3 | 9889.0  | 10170.2 | 11973.3 | 12154.0 | 12031.4 | 7812.6  |
| 40°   | 12251.3 | 12347.1 | 12320.4 | 11676.5 | 11271.2 | 11013.6 | 11170.7 | 13030.4 | 13259.7 | 13401.1 | 8571.2  |
| 42.5° | 12775.9 | 12848.2 | 12970.7 | 12582.7 | 12215.2 | 12257.6 | 12351.9 | 14261.8 | 14544.5 | 14962.3 | 9443.0  |
| 45°   | 13377.5 | 13412.1 | 13514.2 | 13343.0 | 13094.8 | 13522.0 | 13605.3 | 15648.7 | 15945.6 | 16641.4 | 10410.5 |
| 47.5° | 14112.6 | 14194.3 | 14222.5 | 14065.5 | 13952.4 | 14640.3 | 14813.1 | 16910.0 | 17326.2 | 18439.8 | 11434.6 |
| 50°   | 15048.7 | 15070.7 | 15119.4 | 15017.3 | 14904.2 | 15601.6 | 15896.9 | 18234.1 | 18612.6 | 20244.5 | 12444.5 |
| 52.5° | 15964.4 | 16043.0 | 16212.6 | 16148.2 | 16102.7 | 16419.9 | 16862.9 | 19427.8 | 19850.3 | 21749.3 | 13452.9 |
| 55°   | 16228.3 | 16295.8 | 16881.7 | 17282.2 | 17652.9 | 17428.3 | 17786.4 | 20497.4 | 20954.5 | 23093.8 | 14423.6 |
| 57.5° | 15174.4 | 15311.0 | 16325.7 | 17368.6 | 18906.3 | 18995.8 | 19055.5 | 21595.3 | 22005.3 | 24124.1 | 15433.5 |
| 60°   | 12510.5 | 12537.2 | 14202.1 | 15991.1 | 18699.0 | 20363.9 | 20908.9 | 22774.9 | 23118.9 | 25083.8 | 16643.0 |
| 62.5° | 7957.1  | 8228.8  | 10055.5 | 12581.2 | 16506.3 | 20166.0 | 23150.3 | 24559.2 | 24684.9 | 26235.1 | 18377.0 |
| 65°   | 3790.1  | 3966.0  | 5282.2  | 7773.3  | 11956.0 | 17632.5 | 24697.4 | 27787.0 | 27843.5 | 28517.3 | 20693.8 |
| 67.5° | 2098.4  | 2183.3  | 2810.0  | 4184.3  | 6989.5  | 12469.7 | 24072.3 | 31610.0 | 31663.4 | 30848.2 | 22726.2 |
| 69°   | 1641.4  | 1713.6  | 2206.8  | 3153.9  | 4738.8  | 8962.3  | 21783.8 | 32729.9 | 32888.5 | 31515.8 | 22798.5 |
| 70°   | 1393.2  | 1463.9  | 1900.5  | 2663.9  | 3810.5  | 6925.1  | 19390.1 | 32451.9 | 32620.0 | 31452.9 | 22259.7 |
| 72.5° | 852.9   | 893.7   | 1266.0  | 1875.4  | 2553.9  | 3483.8  | 11957.6 | 27444.6 | 27728.9 | 28851.9 | 19130.9 |
| 75°   | 574.9   | 596.9   | 791.6   | 1294.2  | 1826.7  | 1793.7  | 6212.1  | 19344.5 | 19960.2 | 22443.5 | 14129.9 |
| 77.5° | 411.5   | 431.9   | 530.9   | 837.2   | 1280.1  | 1184.3  | 2813.1  | 12022.0 | 12154.0 | 13460.8 | 7705.8  |
| 80°   | 234.0   | 252.9   | 375.4   | 497.9   | 868.6   | 790.1   | 1118.3  | 5742.4  | 5808.4  | 5772.3  | 2572.8  |
| 82.5° | 122.5   | 138.2   | 205.8   | 328.3   | 557.6   | 516.8   | 464.9   | 1922.5  | 1931.9  | 1606.8  | 563.9   |
| 85°   | 23.6    | 28.3    | 102.1   | 224.6   | 287.4   | 224.6   | 190.1   | 450.8   | 460.2   | 406.8   | 139.8   |
| 87.5° | 0.0     | 1.6     | 40.8    | 50.3    | 56.5    | 58.1    | 61.3    | 88.0    | 94.2    | 127.2   | 37.7    |
| 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°    | 3763.4  | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 | 3763.4 |
| 2.5°  | 3780.6  | 3724.1 | 3615.7 | 3490.1 | 3392.7 | 3296.9 | 3221.5 | 3142.9 | 3114.7 | 3100.5 | 3099.0 |
| 5°    | 3818.3  | 3699.0 | 3469.6 | 3234.0 | 3040.8 | 2858.6 | 2728.3 | 2604.2 | 2546.1 | 2519.4 | 2508.4 |
| 7.5°  | 3881.2  | 3689.5 | 3320.4 | 2960.7 | 2682.7 | 2455.0 | 2274.4 | 2139.3 | 2071.7 | 2043.5 | 2032.5 |
| 10°   | 3955.0  | 3677.0 | 3146.1 | 2671.7 | 2316.8 | 2081.2 | 1902.1 | 1768.6 | 1694.8 | 1663.4 | 1647.6 |
| 12.5° | 4041.4  | 3655.0 | 2945.0 | 2379.6 | 2004.2 | 1768.6 | 1551.8 | 1386.9 | 1302.1 | 1266.0 | 1248.7 |
| 15°   | 4148.2  | 3633.0 | 2734.6 | 2104.7 | 1729.3 | 1441.9 | 1204.7 | 1093.2 | 1075.9 | 1069.6 | 1071.2 |
| 17.5° | 4253.4  | 3598.4 | 2505.2 | 1833.0 | 1440.3 | 1126.2 | 1005.2 | 999.0  | 1002.1 | 1002.1 | 1002.1 |
| 20°   | 4347.7  | 3519.9 | 2255.5 | 1600.5 | 1165.4 | 950.3  | 925.1  | 914.1  | 906.3  | 900.0  | 892.1  |
| 22.5° | 4421.5  | 3414.7 | 2015.2 | 1369.6 | 951.8  | 870.2  | 830.9  | 796.3  | 768.1  | 749.2  | 739.8  |
| 25°   | 4471.7  | 3274.9 | 1795.3 | 1148.2 | 856.0  | 791.6  | 720.9  | 662.8  | 618.8  | 592.1  | 581.2  |
| 27.5° | 4509.4  | 3124.1 | 1599.0 | 961.3  | 790.1  | 700.5  | 607.9  | 538.7  | 493.2  | 469.6  | 460.2  |
| 30°   | 4536.1  | 2952.9 | 1426.2 | 845.0  | 716.2  | 604.7  | 505.8  | 438.2  | 405.2  | 392.7  | 386.4  |
| 32.5° | 4561.3  | 2762.8 | 1262.8 | 790.1  | 647.1  | 516.8  | 424.1  | 372.3  | 351.8  | 336.1  | 331.4  |
| 35°   | 4624.1  | 2586.9 | 1107.3 | 731.9  | 576.4  | 441.4  | 364.4  | 326.7  | 306.3  | 296.9  | 293.7  |
| 37.5° | 4773.3  | 2456.5 | 958.1  | 672.3  | 505.8  | 381.7  | 318.8  | 292.1  | 273.3  | 263.9  | 260.7  |
| 40°   | 5013.6  | 2390.6 | 832.5  | 607.9  | 436.7  | 336.1  | 289.0  | 263.9  | 243.5  | 229.3  | 226.2  |
| 42.5° | 5367.0  | 2400.0 | 744.5  | 543.5  | 381.7  | 300.0  | 260.7  | 230.9  | 208.9  | 196.3  | 193.2  |
| 45°   | 5795.8  | 2469.1 | 683.2  | 480.6  | 336.1  | 271.7  | 229.3  | 197.9  | 177.5  | 166.5  | 163.4  |
| 47.5° | 6260.7  | 2580.6 | 633.0  | 424.1  | 300.0  | 245.0  | 197.9  | 164.9  | 147.6  | 138.2  | 136.6  |
| 50°   | 6750.8  | 2689.0 | 581.2  | 369.1  | 268.6  | 218.3  | 166.5  | 136.6  | 122.5  | 114.7  | 111.5  |
| 52.5° | 7247.1  | 2814.7 | 534.0  | 318.8  | 241.9  | 186.9  | 138.2  | 111.5  | 100.5  | 94.2   | 91.1   |
| 55°   | 7781.2  | 2908.9 | 488.5  | 279.6  | 215.2  | 158.6  | 114.7  | 92.7   | 83.2   | 75.4   | 73.8   |
| 57.5° | 8409.4  | 3055.0 | 441.4  | 241.9  | 183.8  | 131.9  | 94.2   | 73.8   | 66.0   | 58.1   | 56.5   |
| 60°   | 9257.6  | 3226.2 | 391.1  | 213.6  | 150.8  | 108.4  | 77.0   | 59.7   | 50.3   | 44.0   | 42.4   |
| 62.5° | 10375.9 | 3416.2 | 328.3  | 186.9  | 122.5  | 88.0   | 61.3   | 47.1   | 36.1   | 28.3   | 28.3   |
| 65°   | 11794.3 | 3725.7 | 268.6  | 157.1  | 100.5  | 72.3   | 47.1   | 34.6   | 20.4   | 12.6   | 12.6   |
| 67.5° | 12622.0 | 3779.1 | 216.8  | 128.8  | 81.7   | 61.3   | 39.3   | 23.6   | 6.3    | 1.6    | 0.0    |
| 69°   | 12356.6 | 3469.6 | 183.8  | 109.9  | 70.7   | 58.1   | 36.1   | 17.3   | 3.1    | 0.0    | 0.0    |
| 70°   | 11857.1 | 3172.8 | 161.8  | 97.4   | 64.4   | 55.0   | 34.6   | 12.6   | 3.1    | 0.0    | 0.0    |
| 72.5° | 9797.9  | 2258.6 | 122.5  | 72.3   | 47.1   | 48.7   | 31.4   | 7.9    | 3.1    | 0.0    | 0.0    |
| 75°   | 7137.2  | 1372.8 | 88.0   | 50.3   | 29.8   | 36.1   | 22.0   | 3.1    | 1.6    | 0.0    | 0.0    |
| 77.5° | 3970.7  | 647.1  | 55.0   | 28.3   | 18.8   | 22.0   | 11.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1289.5  | 175.9  | 25.1   | 15.7   | 11.0   | 12.6   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 238.7   | 50.3   | 14.1   | 7.9    | 3.1    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 51.8    | 20.4   | 7.9    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 17.3    | 6.3    | 1.6    | 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)