

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: P324772

Luminaire Tested: **GAN-SA8C-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8C-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42261 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

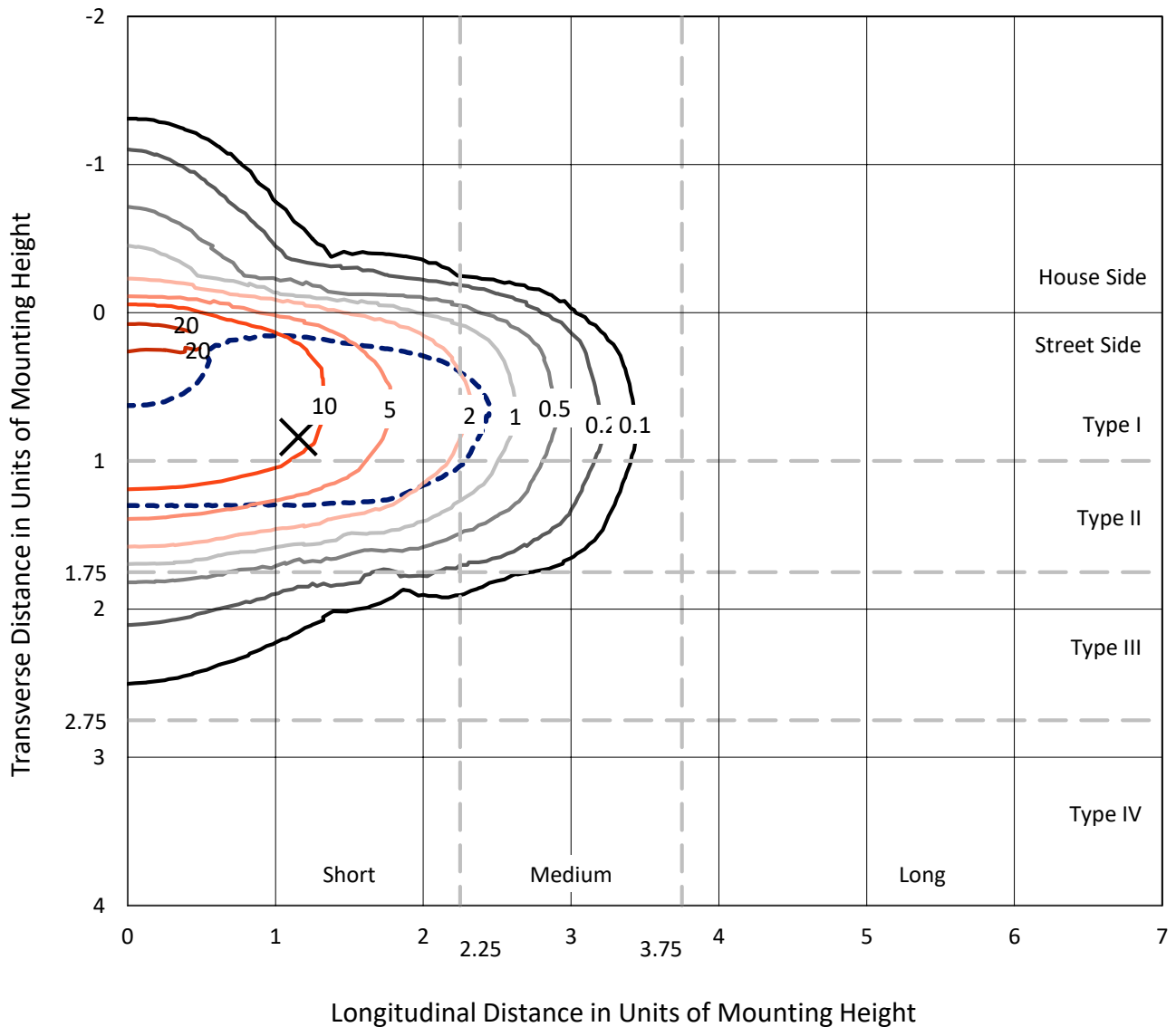
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

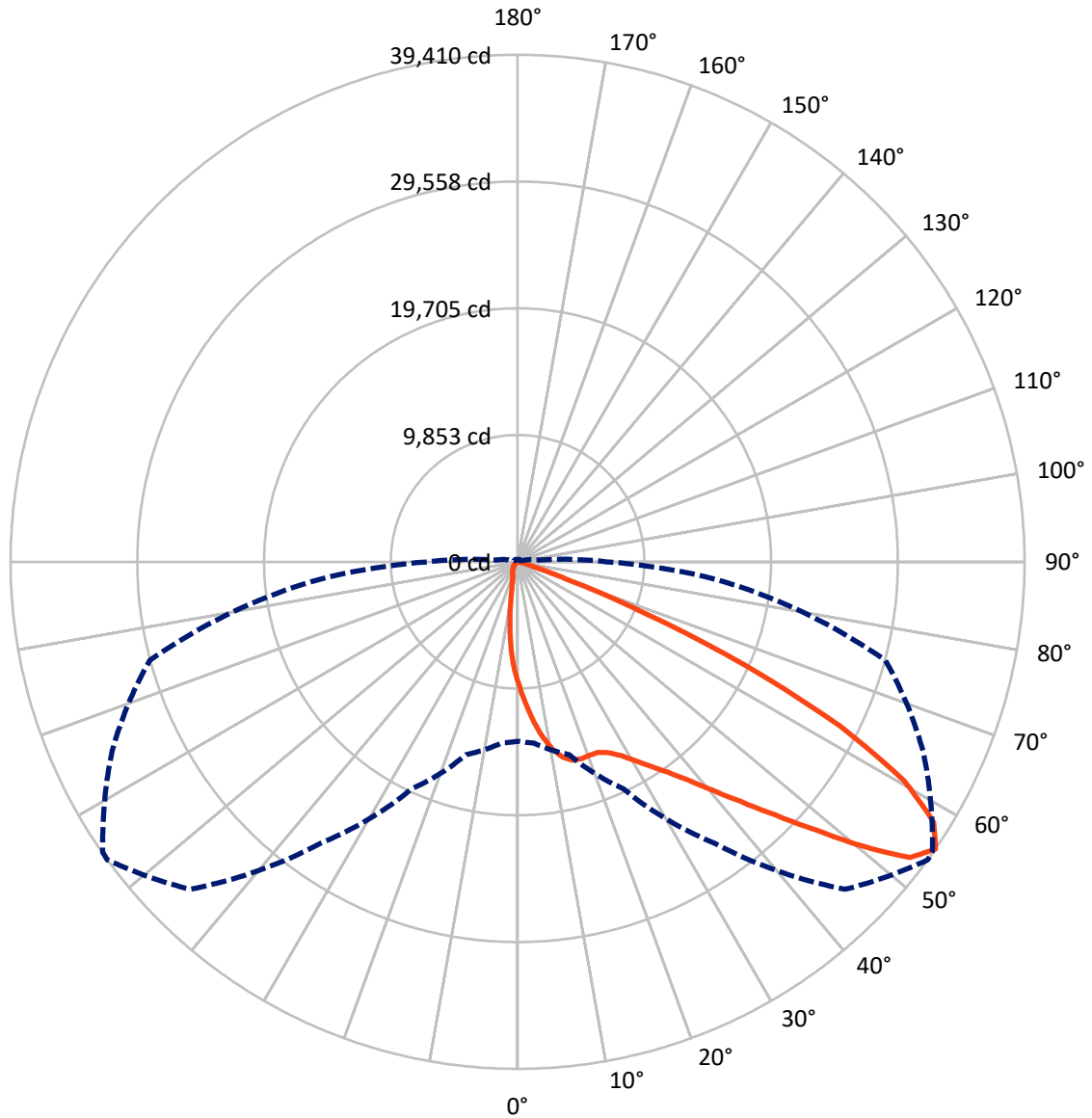
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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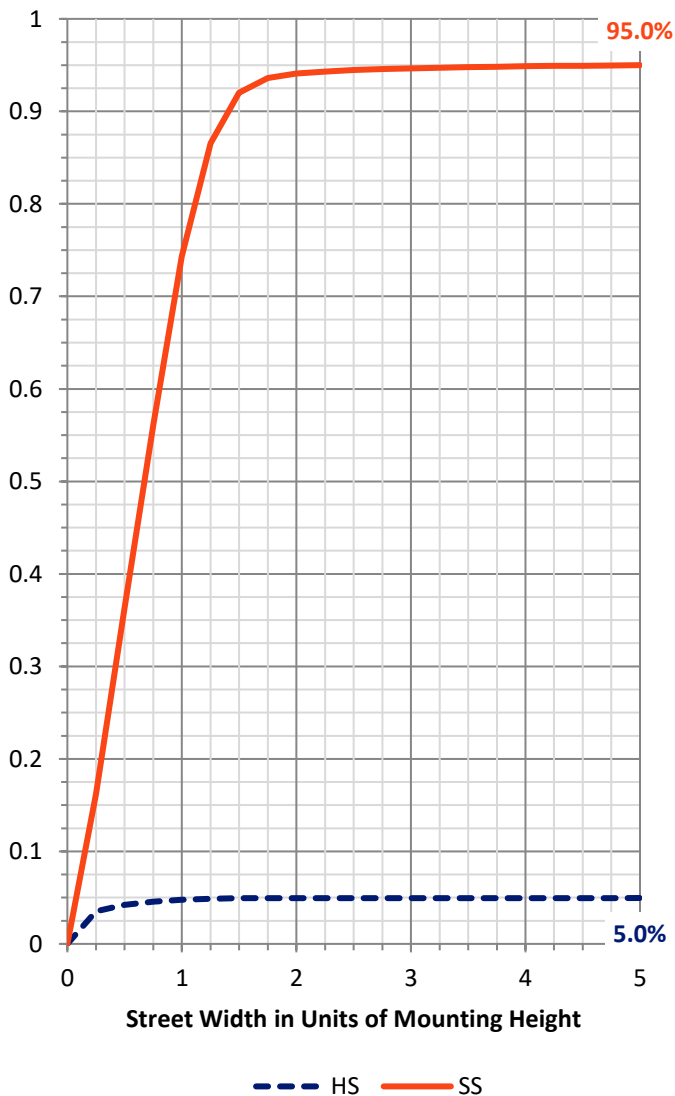
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2108.5   | 0.0    | 2108.5  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 40152.5  | 0.0    | 40152.5 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 42261.0  | 0.0    | 42261.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 871.6   | 2.1       |
| 10°-20°   | 2390.4  | 5.7       |
| 20°-30°   | 4081.2  | 9.7       |
| 30°-40°   | 6549.6  | 15.5      |
| 40°-50°   | 10466.3 | 24.8      |
| 50°-60°   | 11214.9 | 26.5      |
| 60°-70°   | 5758.1  | 13.6      |
| 70°-80°   | 872.2   | 2.1       |
| 80°-90°   | 56.8    | 0.1       |
| 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°    | 42261.0 | 100.0     |
| 0°-180°   | 42261.0 | 100.0     |

**Coefficient of Utilization**



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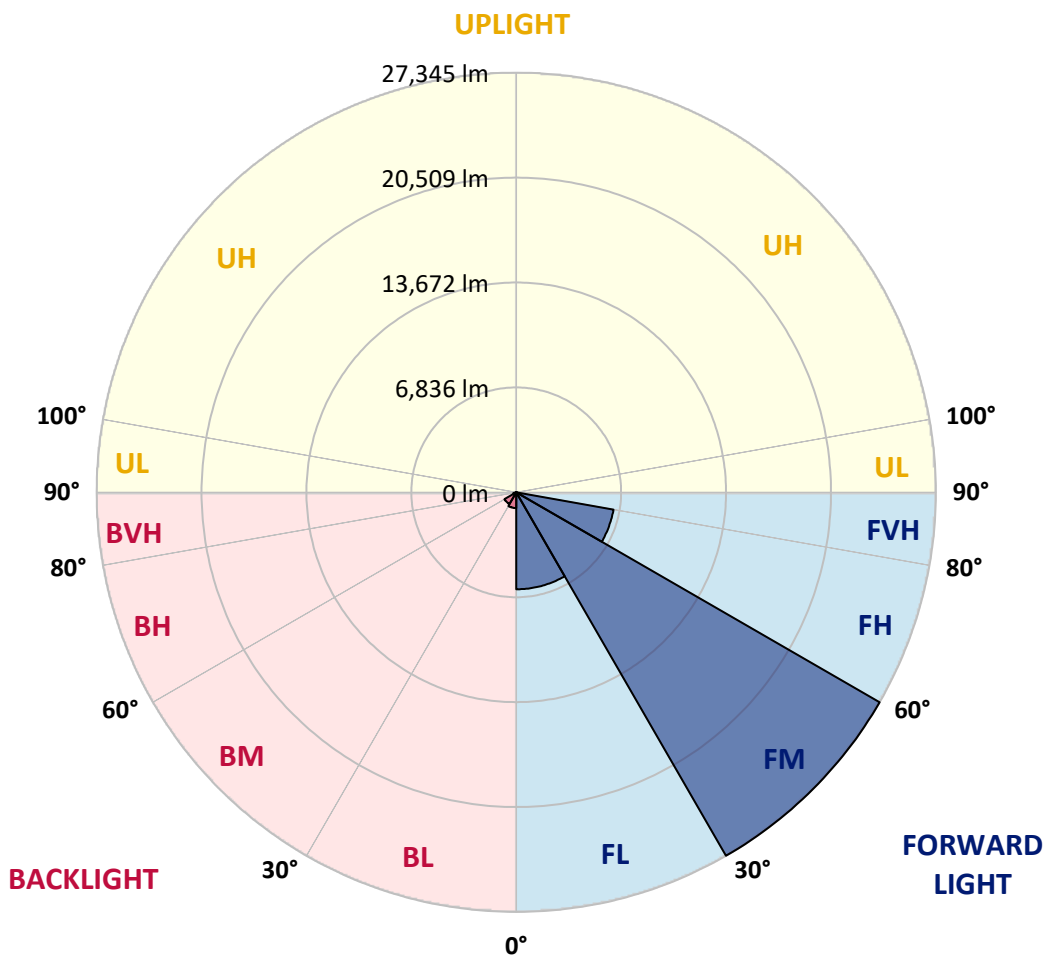
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6317.3  | 14.9      |                         |      |         |
| FM (30°-60°)   | 27344.7 | 64.7      |                         |      |         |
| FH (60°-80°)   | 6436.0  | 15.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 54.5    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1025.9  | 2.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 886.0   | 2.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 194.3   | 0.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.3     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  | 9464.8  |
| 2.5°  | 11877.5 | 11700.5 | 11705.9 | 11625.6 | 11331.8 | 11101.8 | 10862.8 | 10806.2 | 10433.9 | 10043.3 | 9667.3  |
| 5°    | 13930.7 | 13801.1 | 13770.1 | 13615.0 | 13206.1 | 12773.6 | 12310.0 | 12202.4 | 11474.2 | 10674.8 | 9888.2  |
| 7.5°  | 14985.6 | 14987.4 | 14961.9 | 14905.3 | 14649.8 | 14230.0 | 13664.2 | 13551.1 | 12560.1 | 11361.0 | 10118.1 |
| 10°   | 14679.0 | 14748.3 | 14890.7 | 15078.7 | 15273.9 | 15221.0 | 14795.8 | 14693.6 | 13616.8 | 12087.4 | 10373.6 |
| 12.5° | 13963.5 | 13972.7 | 14131.4 | 14439.9 | 15002.0 | 15578.7 | 15586.0 | 15551.3 | 14626.0 | 12846.6 | 10654.7 |
| 15°   | 13607.7 | 13642.3 | 13700.7 | 13899.7 | 14432.6 | 15356.1 | 16016.7 | 16066.0 | 15551.3 | 13653.3 | 10954.0 |
| 17.5° | 13841.3 | 13890.5 | 13841.3 | 13865.0 | 14173.4 | 15003.8 | 16091.6 | 16217.5 | 16359.8 | 14450.8 | 11236.9 |
| 20°   | 14474.6 | 14520.2 | 14432.6 | 14335.9 | 14396.1 | 14901.6 | 16038.6 | 16208.4 | 16993.1 | 15159.0 | 11474.2 |
| 22.5° | 15328.7 | 15346.9 | 15213.7 | 15054.9 | 15011.1 | 15248.4 | 16082.4 | 16257.6 | 17500.5 | 15799.6 | 11623.8 |
| 25°   | 16268.6 | 16285.0 | 16118.9 | 15936.4 | 15832.4 | 15929.1 | 16442.0 | 16573.4 | 17947.7 | 16411.0 | 11709.6 |
| 27.5° | 17292.5 | 17307.1 | 17099.0 | 16874.5 | 16754.1 | 16757.7 | 17035.1 | 17175.7 | 18424.0 | 17108.1 | 11778.9 |
| 30°   | 18374.7 | 18367.4 | 18175.8 | 17863.7 | 17710.4 | 17706.7 | 17889.3 | 18031.6 | 19113.9 | 18002.4 | 11873.8 |
| 32.5° | 19590.2 | 19575.6 | 19303.7 | 18916.8 | 18743.4 | 18768.9 | 18931.4 | 19013.5 | 19969.8 | 18955.1 | 12043.6 |
| 35°   | 21190.8 | 21148.8 | 20738.2 | 20258.2 | 19938.8 | 19929.7 | 20066.5 | 20132.3 | 21061.2 | 20108.5 | 12326.5 |
| 37.5° | 23267.7 | 23229.4 | 22672.7 | 21975.6 | 21526.6 | 21358.7 | 21521.1 | 21605.1 | 22618.0 | 21588.7 | 12780.9 |
| 40°   | 25315.4 | 25277.1 | 24946.8 | 24308.0 | 23616.3 | 23213.0 | 23340.7 | 23430.1 | 24561.7 | 23384.5 | 13354.0 |
| 42.5° | 26728.0 | 26760.9 | 26875.9 | 26928.8 | 26280.9 | 25434.1 | 25492.5 | 25585.5 | 26603.9 | 25304.5 | 14009.2 |
| 45°   | 27100.3 | 27171.5 | 27821.2 | 29097.0 | 29339.7 | 28679.0 | 28067.6 | 28118.7 | 28679.0 | 27224.4 | 14664.4 |
| 47.5° | 25981.6 | 26113.0 | 27366.8 | 29739.4 | 31794.4 | 32261.6 | 31104.5 | 31037.0 | 30670.2 | 28777.6 | 15129.8 |
| 50°   | 23439.3 | 23559.7 | 25184.0 | 28693.6 | 32539.0 | 35681.8 | 34743.7 | 34544.8 | 32416.7 | 29706.5 | 15294.0 |
| 52.5° | 19759.9 | 19905.9 | 21225.5 | 25401.2 | 31135.5 | 37207.5 | 38189.4 | 38023.3 | 33697.9 | 29779.5 | 15321.4 |
| 55°   | 13954.4 | 14131.4 | 15527.6 | 19467.9 | 26687.9 | 35993.9 | 39410.4 | 39361.1 | 34761.9 | 29586.1 | 15379.8 |
| 57.5° | 7842.3  | 7970.0  | 9475.7  | 12479.8 | 19546.4 | 31350.9 | 38134.7 | 38461.3 | 35404.4 | 29250.3 | 15467.4 |
| 60°   | 3482.2  | 3516.9  | 4296.2  | 6212.5  | 11443.1 | 23959.4 | 34482.7 | 35033.9 | 34853.2 | 28801.3 | 15615.2 |
| 62.5° | 1930.9  | 1901.7  | 1901.7  | 2582.5  | 4973.3  | 14832.3 | 28118.7 | 29029.4 | 32500.7 | 28270.2 | 15622.5 |
| 65°   | 1513.0  | 1485.6  | 1407.1  | 1418.1  | 1894.4  | 6583.0  | 19471.6 | 21090.4 | 28032.9 | 26713.4 | 15096.9 |
| 67.5° | 1283.0  | 1259.3  | 1180.8  | 1149.8  | 1177.2  | 2171.8  | 10698.5 | 12379.4 | 21271.1 | 22667.3 | 13076.6 |
| 70°   | 1084.1  | 1067.7  | 1027.5  | 989.2   | 919.8   | 1073.1  | 4093.6  | 5236.1  | 13107.6 | 15078.7 | 8926.4  |
| 72.5° | 872.4   | 865.1   | 879.7   | 846.8   | 762.9   | 715.4   | 1399.8  | 1695.5  | 5887.6  | 6729.0  | 3677.5  |
| 75°   | 751.9   | 748.3   | 755.6   | 722.7   | 627.8   | 498.2   | 711.8   | 777.5   | 1660.8  | 1646.2  | 744.6   |
| 77.5° | 489.1   | 494.6   | 626.0   | 611.4   | 540.2   | 332.2   | 368.7   | 397.9   | 503.7   | 377.8   | 226.3   |
| 80°   | 312.1   | 308.4   | 317.6   | 507.4   | 485.5   | 253.7   | 184.3   | 193.5   | 242.7   | 186.2   | 109.5   |
| 82.5° | 189.8   | 186.2   | 208.1   | 237.3   | 244.6   | 177.0   | 113.2   | 115.0   | 151.5   | 120.5   | 58.4    |
| 85°   | 16.4    | 21.9    | 125.9   | 116.8   | 84.0    | 54.8    | 54.8    | 58.4    | 80.3    | 71.2    | 32.9    |
| 87.5° | 0.0     | 0.0     | 21.9    | 32.9    | 18.3    | 20.1    | 20.1    | 21.9    | 31.0    | 31.0    | 16.4    |
| 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°    | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 | 9464.8 |
| 2.5°  | 9472.1 | 9282.3 | 8899.0 | 8530.3 | 8218.3 | 7917.1 | 7574.0 | 7234.5 | 7075.8 | 7011.9 | 6946.2 |
| 5°    | 9488.5 | 9097.9 | 8307.7 | 7512.0 | 6687.0 | 5944.2 | 5310.9 | 4661.2 | 4336.3 | 4194.0 | 4128.3 |
| 7.5°  | 9510.4 | 8915.4 | 7637.9 | 6301.9 | 4973.3 | 3965.9 | 3086.2 | 2520.4 | 2275.9 | 2237.5 | 2142.6 |
| 10°   | 9514.0 | 8694.6 | 6860.4 | 4966.0 | 3334.4 | 2390.8 | 1839.7 | 1547.7 | 1440.0 | 1421.7 | 1390.7 |
| 12.5° | 9521.3 | 8433.6 | 5997.2 | 3677.5 | 2222.9 | 1598.8 | 1330.5 | 1233.7 | 1204.5 | 1202.7 | 1202.7 |
| 15°   | 9543.2 | 8159.8 | 5101.0 | 2650.0 | 1596.9 | 1266.6 | 1168.0 | 1129.7 | 1118.8 | 1124.2 | 1122.4 |
| 17.5° | 9543.2 | 7836.8 | 4221.4 | 1974.7 | 1290.3 | 1138.8 | 1084.1 | 1058.5 | 1054.9 | 1060.4 | 1062.2 |
| 20°   | 9473.9 | 7444.4 | 3414.7 | 1536.7 | 1144.3 | 1056.7 | 1007.4 | 983.7  | 974.6  | 978.2  | 980.1  |
| 22.5° | 9307.8 | 6962.6 | 2757.7 | 1272.1 | 1047.6 | 981.9  | 929.0  | 892.5  | 877.9  | 879.7  | 879.7  |
| 25°   | 9048.7 | 6391.4 | 2157.2 | 1100.5 | 969.1  | 901.6  | 839.5  | 797.6  | 788.4  | 786.6  | 790.3  |
| 27.5° | 8716.5 | 5759.9 | 1717.4 | 969.1  | 876.0  | 812.2  | 750.1  | 715.4  | 708.1  | 709.9  | 711.8  |
| 30°   | 8389.8 | 5104.7 | 1354.2 | 857.8  | 772.0  | 711.8  | 664.3  | 647.9  | 647.9  | 653.4  | 655.2  |
| 32.5° | 8090.5 | 4475.1 | 1071.3 | 761.1  | 678.9  | 624.2  | 596.8  | 595.0  | 604.1  | 607.7  | 609.6  |
| 35°   | 7833.2 | 3892.9 | 887.0  | 686.2  | 605.9  | 558.5  | 549.3  | 556.6  | 567.6  | 574.9  | 576.7  |
| 37.5° | 7650.7 | 3372.7 | 775.7  | 624.2  | 549.3  | 511.0  | 509.2  | 523.8  | 538.4  | 554.8  | 558.5  |
| 40°   | 7574.0 | 2932.9 | 699.0  | 569.4  | 503.7  | 474.5  | 469.0  | 489.1  | 516.5  | 540.2  | 543.9  |
| 42.5° | 7510.1 | 2573.3 | 633.3  | 516.5  | 467.2  | 425.2  | 423.4  | 449.0  | 481.8  | 505.5  | 511.0  |
| 45°   | 7455.4 | 2285.0 | 573.1  | 459.9  | 419.8  | 365.0  | 370.5  | 403.3  | 428.9  | 454.4  | 459.9  |
| 47.5° | 7342.2 | 2047.7 | 507.4  | 399.7  | 346.8  | 312.1  | 323.0  | 352.2  | 372.3  | 410.6  | 416.1  |
| 50°   | 7139.6 | 1854.3 | 439.8  | 326.7  | 282.9  | 270.1  | 286.5  | 306.6  | 332.2  | 365.0  | 368.7  |
| 52.5° | 7002.8 | 1708.3 | 381.4  | 273.8  | 233.6  | 237.3  | 253.7  | 261.0  | 275.6  | 288.4  | 284.7  |
| 55°   | 6924.3 | 1628.0 | 334.0  | 237.3  | 198.9  | 209.9  | 213.5  | 204.4  | 197.1  | 184.3  | 178.9  |
| 57.5° | 6915.2 | 1555.0 | 297.5  | 206.2  | 175.2  | 180.7  | 167.9  | 136.9  | 111.3  | 96.7   | 93.1   |
| 60°   | 6900.6 | 1465.5 | 268.3  | 173.4  | 155.1  | 147.8  | 120.5  | 74.8   | 52.9   | 49.3   | 49.3   |
| 62.5° | 6741.8 | 1326.8 | 246.4  | 146.0  | 131.4  | 111.3  | 69.4   | 34.7   | 29.2   | 31.0   | 31.0   |
| 65°   | 6236.2 | 1133.4 | 224.5  | 118.6  | 104.0  | 80.3   | 34.7   | 20.1   | 11.0   | 12.8   | 12.8   |
| 67.5° | 5301.8 | 903.4  | 200.8  | 91.3   | 78.5   | 51.1   | 20.1   | 9.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 3549.7 | 560.3  | 169.7  | 63.9   | 51.1   | 31.0   | 14.6   | 1.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1361.5 | 303.0  | 136.9  | 38.3   | 32.9   | 21.9   | 9.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 306.6  | 198.9  | 94.9   | 27.4   | 23.7   | 14.6   | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 116.8  | 144.2  | 54.8   | 18.3   | 16.4   | 9.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 56.6   | 85.8   | 25.6   | 11.0   | 9.1    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 29.2   | 32.9   | 11.0   | 5.5    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.4   | 16.4   | 5.5    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.1    | 5.5    | 1.8    | 1.8    | 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)