

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: P459183

Luminaire Tested: **GLAN-SA6D-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 35012 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

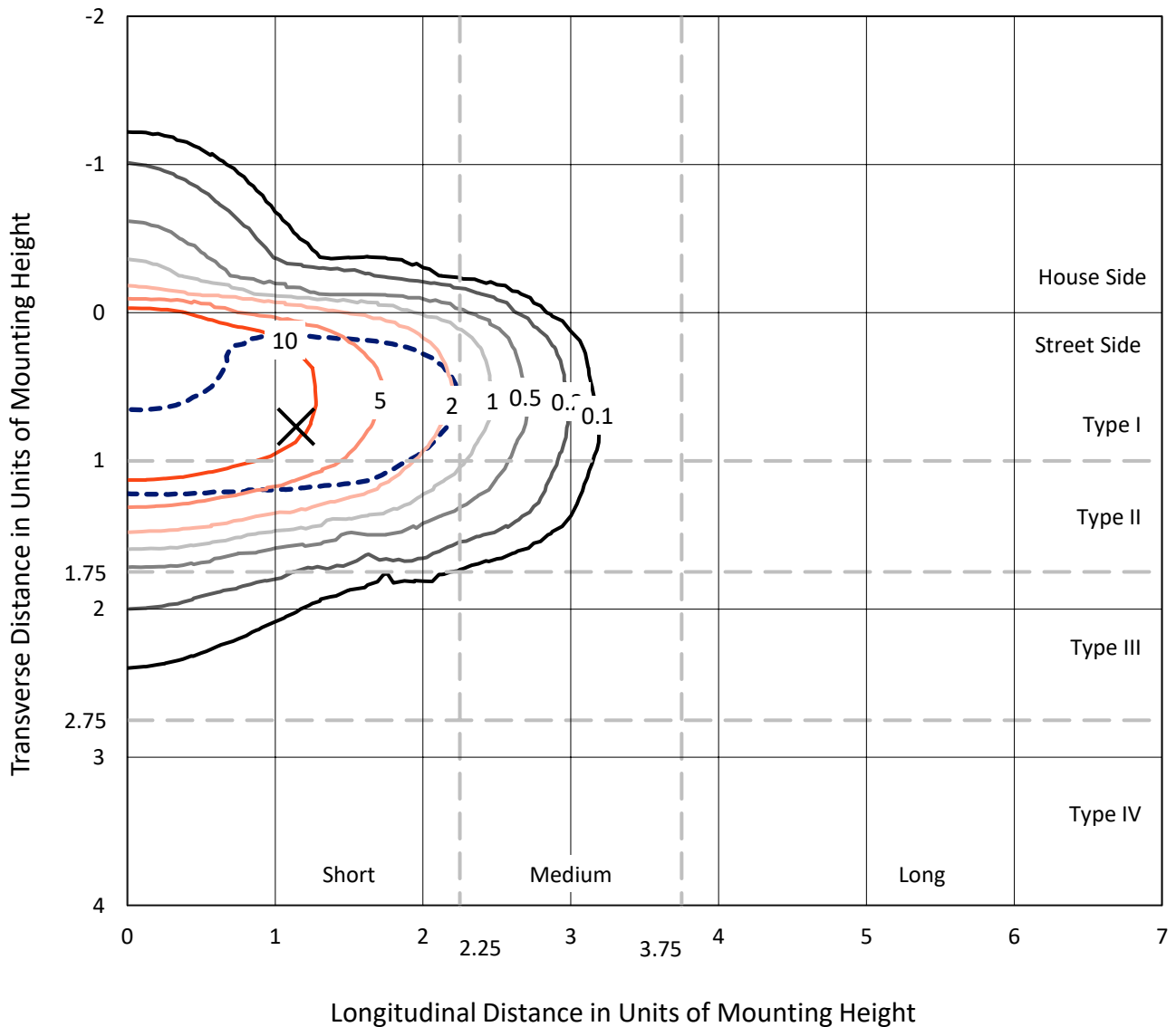
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

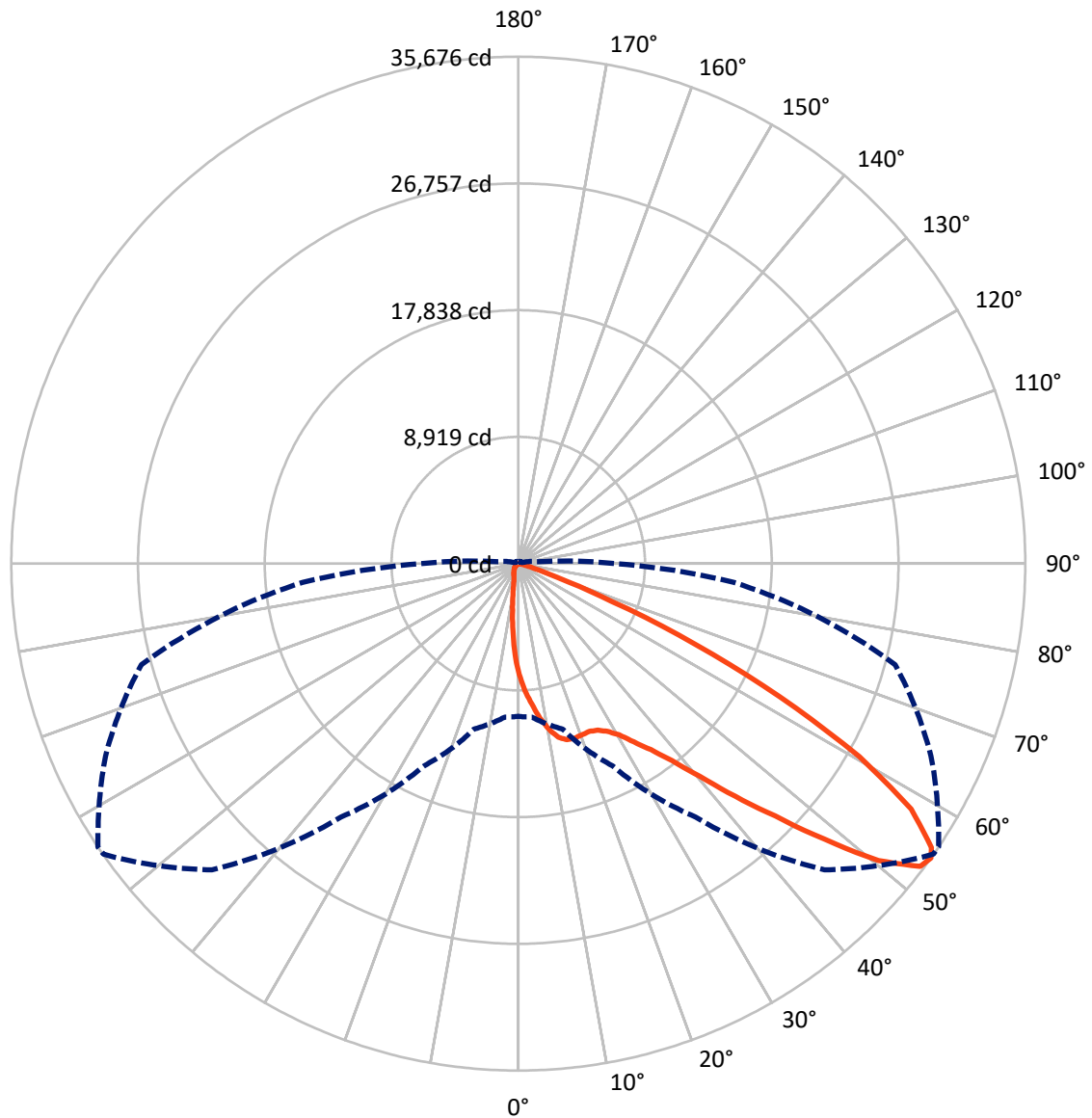
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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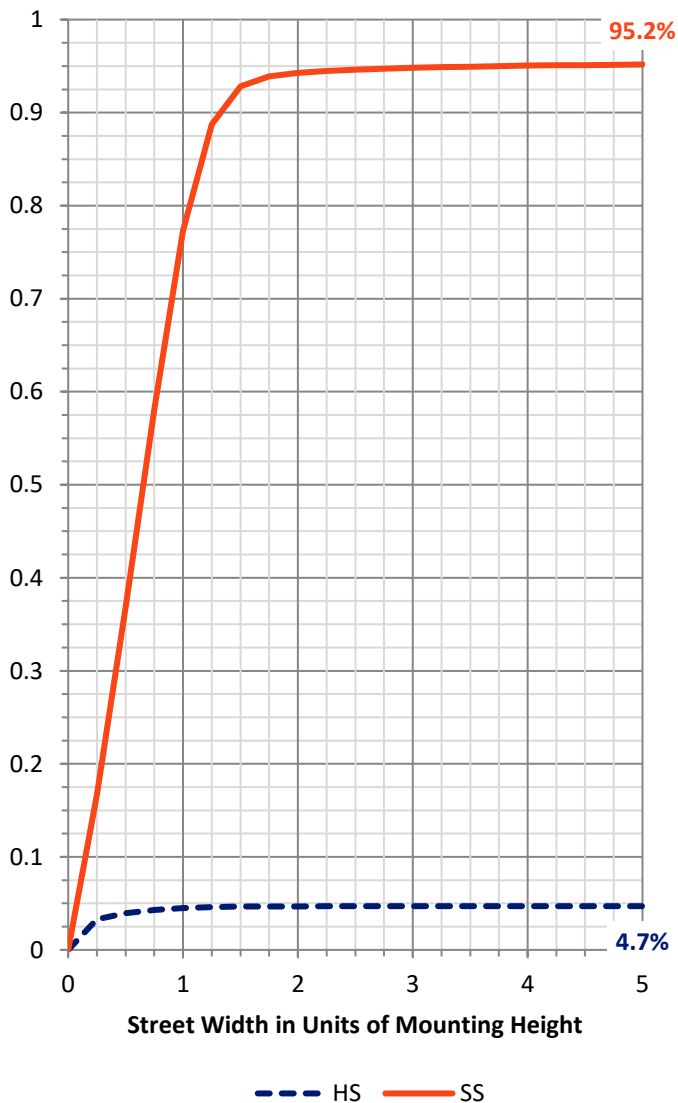
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1655.6   | 0.0    | 1655.6  |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 33356.4  | 0.0    | 33356.4 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 35012.0  | 0.0    | 35012.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 687.4   | 2.0       |
| 10°-20°   | 1858.2  | 5.3       |
| 20°-30°   | 3218.2  | 9.2       |
| 30°-40°   | 5555.2  | 15.9      |
| 40°-50°   | 9455.1  | 27.0      |
| 50°-60°   | 9357.0  | 26.7      |
| 60°-70°   | 4270.7  | 12.2      |
| 70°-80°   | 548.5   | 1.6       |
| 80°-90°   | 61.8    | 0.2       |
| 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°    | 35012.0 | 100.0     |
| 0°-180°   | 35012.0 | 100.0     |



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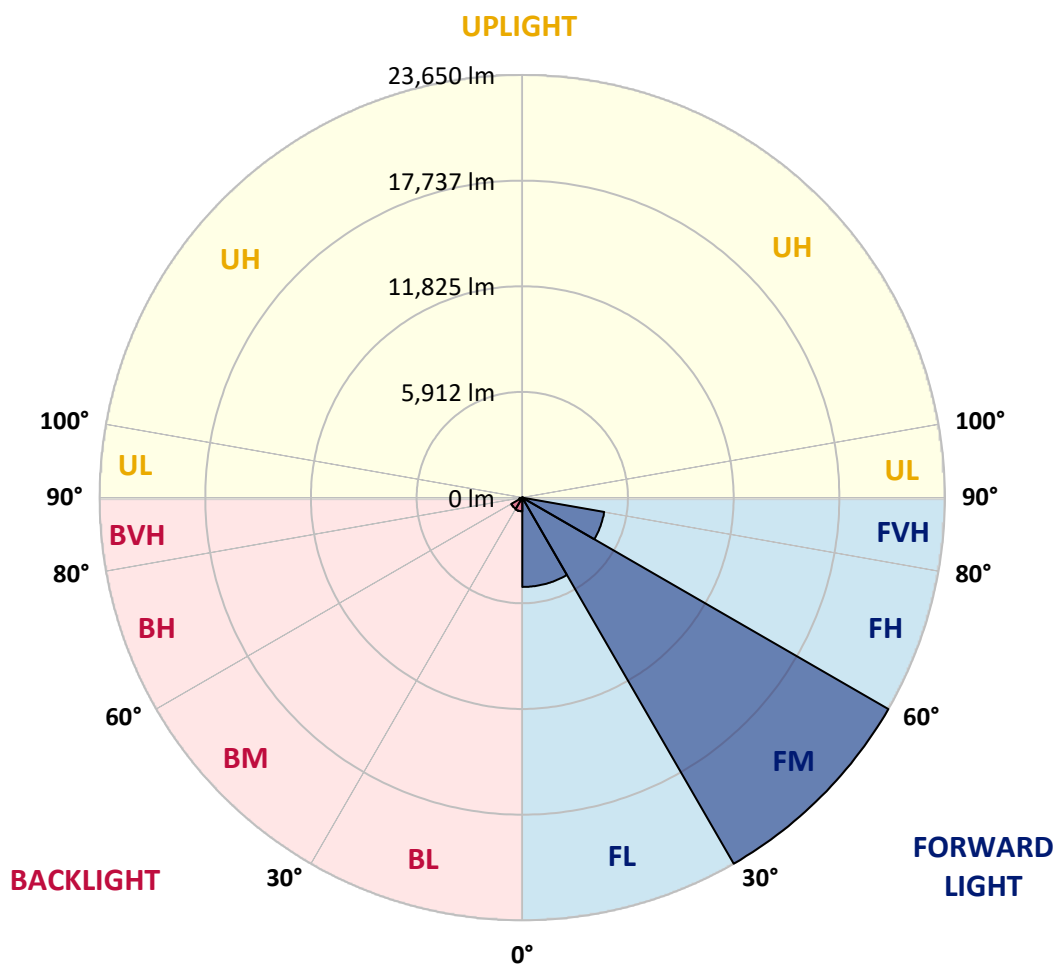
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4998.1  | 14.3      |                         |      |         |
| FM   | (30°-60°)   | 23649.7 | 67.5      |                         |      |         |
| FH   | (60°-80°)   | 4653.4  | 13.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 55.2    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 765.7   | 2.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 717.5   | 2.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 165.8   | 0.5       | B1/500                  |      | G1/500  |
| 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  | 7778.7  |
| 2.5°  | 9885.7  | 9817.2  | 9722.7  | 9649.5  | 9477.1  | 9229.0  | 8966.8  | 8966.8  | 8714.1  | 8362.1  | 8003.1  |
| 5°    | 11402.2 | 11357.4 | 11265.2 | 11076.3 | 10882.6 | 10535.3 | 10008.6 | 9916.4  | 9465.3  | 8827.5  | 8156.6  |
| 7.5°  | 12018.8 | 12040.0 | 12044.8 | 11995.2 | 11903.0 | 11560.5 | 11038.5 | 10974.7 | 10254.2 | 9399.1  | 8357.4  |
| 10°   | 11428.2 | 11532.2 | 11633.7 | 11839.2 | 12129.8 | 12212.5 | 11917.2 | 11851.1 | 11142.4 | 9977.8  | 8574.7  |
| 12.5° | 10549.5 | 10606.2 | 10662.9 | 10986.5 | 11570.0 | 12238.5 | 12547.9 | 12545.5 | 11945.5 | 10554.2 | 8851.1  |
| 15°   | 10140.8 | 10190.4 | 10195.2 | 10339.3 | 10844.8 | 11818.0 | 12817.2 | 12852.6 | 12729.8 | 11265.2 | 9148.7  |
| 17.5° | 10225.9 | 10266.0 | 10233.0 | 10268.4 | 10533.0 | 11355.0 | 12786.5 | 12904.6 | 13365.2 | 11947.9 | 9418.0  |
| 20°   | 10781.0 | 10858.9 | 10731.4 | 10632.2 | 10712.5 | 11232.2 | 12682.5 | 12847.9 | 13814.0 | 12614.0 | 9663.7  |
| 22.5° | 11777.8 | 11820.4 | 11659.7 | 11388.1 | 11246.3 | 11489.6 | 12654.2 | 12817.2 | 14196.7 | 13159.7 | 9805.4  |
| 25°   | 12885.7 | 12871.5 | 12694.4 | 12389.6 | 12092.0 | 12009.3 | 12840.8 | 12987.3 | 14513.2 | 13651.0 | 9847.9  |
| 27.5° | 13993.6 | 14036.1 | 13738.4 | 13360.5 | 13003.8 | 12788.8 | 13258.9 | 13367.6 | 14869.9 | 14210.9 | 9899.9  |
| 30°   | 15280.9 | 15212.4 | 14919.5 | 14487.3 | 14078.6 | 13778.6 | 13932.1 | 13962.8 | 15361.3 | 14952.6 | 10036.9 |
| 32.5° | 16955.7 | 16766.8 | 16438.4 | 15682.5 | 15389.6 | 14881.7 | 14919.5 | 14957.3 | 15958.9 | 15687.2 | 10202.3 |
| 35°   | 19228.1 | 19218.7 | 18576.2 | 17558.1 | 16844.7 | 16214.0 | 16048.7 | 16079.4 | 16863.6 | 16778.6 | 10568.4 |
| 37.5° | 21963.6 | 22001.3 | 21269.1 | 20243.9 | 18930.5 | 17928.9 | 17588.8 | 17593.5 | 18238.4 | 18285.6 | 11125.9 |
| 40°   | 24191.1 | 24290.3 | 23853.3 | 23161.2 | 21864.3 | 20298.2 | 19726.6 | 19674.6 | 20170.7 | 20111.6 | 11921.9 |
| 42.5° | 25150.1 | 25242.3 | 25405.2 | 25646.2 | 24932.8 | 23640.7 | 22291.9 | 22362.8 | 22513.9 | 22100.6 | 12814.8 |
| 45°   | 24680.1 | 24826.5 | 25466.7 | 26954.8 | 27625.7 | 27191.1 | 25582.4 | 25334.4 | 24694.2 | 24262.0 | 13712.5 |
| 47.5° | 22721.8 | 23078.5 | 24148.6 | 26626.5 | 28974.5 | 30443.8 | 29295.8 | 28967.4 | 26876.9 | 25839.9 | 14284.1 |
| 50°   | 19502.2 | 19523.4 | 21014.0 | 24181.6 | 28275.3 | 32496.5 | 33087.1 | 32841.4 | 28910.7 | 26725.7 | 14572.3 |
| 52.5° | 14137.6 | 14603.0 | 15968.3 | 19636.8 | 25247.0 | 32184.7 | 35503.6 | 35402.0 | 31008.3 | 27179.2 | 14988.0 |
| 54°   | 10747.9 | 10837.7 | 12051.8 | 15692.0 | 21767.5 | 30472.1 | 35652.4 | 35676.0 | 32050.1 | 27453.3 | 15233.7 |
| 55°   | 8810.9  | 8596.0  | 9871.6  | 13367.6 | 19393.5 | 28958.0 | 35165.8 | 35279.2 | 32517.8 | 27595.0 | 15415.6 |
| 57.5° | 4176.3  | 4178.7  | 5154.3  | 7051.1  | 12146.3 | 22485.6 | 32191.8 | 32593.4 | 32569.7 | 27838.3 | 15975.4 |
| 60°   | 2114.2  | 2128.3  | 2343.3  | 3255.1  | 5999.9  | 14947.9 | 26617.0 | 27573.7 | 30063.5 | 27873.7 | 16159.7 |
| 62.5° | 1478.7  | 1462.2  | 1426.8  | 1566.1  | 2525.2  | 7596.8  | 19816.3 | 20647.8 | 25542.3 | 26524.9 | 15573.9 |
| 65°   | 1266.1  | 1230.7  | 1131.5  | 1110.2  | 1275.6  | 3026.0  | 12342.4 | 13698.3 | 19502.2 | 22967.5 | 13906.2 |
| 67.5° | 1081.9  | 1067.7  | 977.9   | 923.6   | 902.4   | 1318.1  | 6368.4  | 7081.8  | 13329.8 | 16509.3 | 10533.0 |
| 70°   | 918.9   | 911.8   | 857.5   | 789.0   | 729.9   | 789.0   | 2362.2  | 2926.7  | 7429.1  | 8888.9  | 4970.0  |
| 72.5° | 746.4   | 753.5   | 763.0   | 675.6   | 614.2   | 559.8   | 1008.7  | 1174.0  | 3108.6  | 3177.1  | 1738.6  |
| 75°   | 654.3   | 647.2   | 647.2   | 588.2   | 512.6   | 415.7   | 555.1   | 597.6   | 952.0   | 883.5   | 403.9   |
| 77.5° | 460.6   | 444.1   | 519.7   | 484.2   | 427.6   | 295.3   | 316.5   | 335.4   | 394.5   | 337.8   | 189.0   |
| 80°   | 318.9   | 318.9   | 333.1   | 434.6   | 385.0   | 215.0   | 193.7   | 207.9   | 233.9   | 200.8   | 108.7   |
| 82.5° | 179.5   | 184.3   | 217.3   | 231.5   | 224.4   | 144.1   | 127.6   | 129.9   | 155.9   | 137.0   | 68.5    |
| 85°   | 21.3    | 35.4    | 125.2   | 122.8   | 92.1    | 63.8    | 70.9    | 73.2    | 96.8    | 85.0    | 40.2    |
| 87.5° | 2.4     | 4.7     | 26.0    | 33.1    | 23.6    | 26.0    | 26.0    | 26.0    | 33.1    | 37.8    | 28.3    |
| 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°    | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 | 7778.7 |
| 2.5°  | 7809.4 | 7629.8 | 7202.3 | 6706.2 | 6389.7 | 5874.7 | 5440.1 | 5125.9 | 5048.0 | 4896.8 | 4941.7 |
| 5°    | 7799.9 | 7426.7 | 6555.1 | 5633.8 | 4651.1 | 3918.9 | 3373.2 | 2943.3 | 2754.3 | 2629.1 | 2541.7 |
| 7.5°  | 7804.6 | 7221.2 | 5822.8 | 4355.9 | 3181.9 | 2463.8 | 1958.2 | 1696.0 | 1521.2 | 1448.0 | 1457.5 |
| 10°   | 7818.8 | 6989.7 | 4972.4 | 3226.7 | 2147.2 | 1592.1 | 1282.7 | 1157.5 | 1098.4 | 1089.0 | 1086.6 |
| 12.5° | 7851.9 | 6736.9 | 4159.8 | 2395.3 | 1502.3 | 1157.5 | 1039.4 | 996.8  | 977.9  | 977.9  | 970.9  |
| 15°   | 7887.3 | 6458.2 | 3484.2 | 1781.1 | 1157.5 | 994.5  | 940.1  | 918.9  | 907.1  | 907.1  | 904.7  |
| 17.5° | 7887.3 | 6136.9 | 2853.5 | 1381.9 | 996.8  | 914.2  | 871.6  | 843.3  | 833.8  | 833.8  | 831.5  |
| 20°   | 7837.7 | 5763.7 | 2293.7 | 1112.6 | 904.7  | 838.6  | 796.1  | 765.3  | 753.5  | 748.8  | 746.4  |
| 22.5° | 7665.3 | 5265.3 | 1826.0 | 956.7  | 829.1  | 772.4  | 718.1  | 682.7  | 673.2  | 668.5  | 670.9  |
| 25°   | 7358.2 | 4703.1 | 1445.7 | 840.9  | 760.6  | 692.1  | 644.9  | 618.9  | 609.4  | 609.4  | 611.8  |
| 27.5° | 7041.7 | 4114.9 | 1145.7 | 753.5  | 677.9  | 616.5  | 578.7  | 562.2  | 559.8  | 566.9  | 569.3  |
| 30°   | 6748.7 | 3524.4 | 928.3  | 682.7  | 604.7  | 552.8  | 526.8  | 522.0  | 522.0  | 524.4  | 526.8  |
| 32.5° | 6422.8 | 3007.1 | 777.2  | 621.3  | 545.7  | 500.8  | 486.6  | 486.6  | 491.3  | 491.3  | 496.1  |
| 35°   | 6217.3 | 2563.0 | 682.7  | 562.2  | 500.8  | 463.0  | 453.5  | 455.9  | 463.0  | 472.4  | 477.2  |
| 37.5° | 6106.2 | 2208.6 | 621.3  | 515.0  | 458.3  | 432.3  | 422.8  | 427.6  | 444.1  | 460.6  | 463.0  |
| 40°   | 6115.7 | 1941.7 | 571.6  | 474.8  | 425.2  | 396.8  | 389.8  | 403.9  | 420.5  | 437.0  | 439.4  |
| 42.5° | 6219.6 | 1743.3 | 524.4  | 427.6  | 396.8  | 356.7  | 354.3  | 368.5  | 375.6  | 392.1  | 394.5  |
| 45°   | 6342.5 | 1599.2 | 474.8  | 377.9  | 344.9  | 309.4  | 311.8  | 323.6  | 333.1  | 359.1  | 363.8  |
| 47.5° | 6380.2 | 1500.0 | 418.1  | 321.3  | 283.5  | 271.7  | 274.0  | 281.1  | 300.0  | 323.6  | 326.0  |
| 50°   | 6422.8 | 1438.6 | 363.8  | 271.7  | 240.9  | 238.6  | 240.9  | 245.7  | 257.5  | 266.9  | 264.6  |
| 52.5° | 6604.7 | 1436.2 | 318.9  | 236.2  | 205.5  | 210.2  | 212.6  | 210.2  | 200.8  | 186.6  | 181.9  |
| 54°   | 6774.7 | 1443.3 | 297.6  | 219.7  | 189.0  | 196.1  | 193.7  | 181.9  | 158.3  | 144.1  | 137.0  |
| 55°   | 6911.7 | 1450.4 | 285.8  | 207.9  | 179.5  | 181.9  | 184.3  | 160.6  | 129.9  | 115.7  | 111.0  |
| 57.5° | 7181.0 | 1433.8 | 257.5  | 181.9  | 158.3  | 148.8  | 146.5  | 106.3  | 70.9   | 61.4   | 56.7   |
| 60°   | 7046.4 | 1294.5 | 233.9  | 155.9  | 134.6  | 120.5  | 99.2   | 59.1   | 35.4   | 26.0   | 26.0   |
| 62.5° | 6517.3 | 1098.4 | 207.9  | 127.6  | 111.0  | 92.1   | 52.0   | 33.1   | 16.5   | 9.4    | 7.1    |
| 65°   | 5829.9 | 923.6  | 186.6  | 101.6  | 87.4   | 59.1   | 28.3   | 21.3   | 7.1    | 0.0    | 0.0    |
| 67.5° | 4334.6 | 685.0  | 158.3  | 80.3   | 66.1   | 37.8   | 18.9   | 11.8   | 2.4    | 0.0    | 0.0    |
| 70°   | 2007.9 | 418.1  | 134.6  | 61.4   | 47.2   | 28.3   | 14.2   | 7.1    | 0.0    | 0.0    | 0.0    |
| 72.5° | 576.4  | 262.2  | 111.0  | 44.9   | 33.1   | 23.6   | 11.8   | 4.7    | 2.4    | 0.0    | 0.0    |
| 75°   | 200.8  | 210.2  | 82.7   | 33.1   | 26.0   | 16.5   | 9.4    | 4.7    | 2.4    | 0.0    | 0.0    |
| 77.5° | 120.5  | 170.1  | 52.0   | 28.3   | 21.3   | 14.2   | 9.4    | 4.7    | 2.4    | 2.4    | 0.0    |
| 80°   | 68.5   | 113.4  | 33.1   | 23.6   | 18.9   | 11.8   | 7.1    | 4.7    | 2.4    | 2.4    | 0.0    |
| 82.5° | 37.8   | 54.3   | 26.0   | 21.3   | 16.5   | 11.8   | 7.1    | 4.7    | 2.4    | 2.4    | 2.4    |
| 85°   | 30.7   | 28.3   | 21.3   | 18.9   | 14.2   | 9.4    | 7.1    | 2.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 23.6   | 18.9   | 18.9   | 18.9   | 14.2   | 9.4    | 7.1    | 2.4    | 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)