

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: P532055

Luminaire Tested: **GLAN-SA7B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17038 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

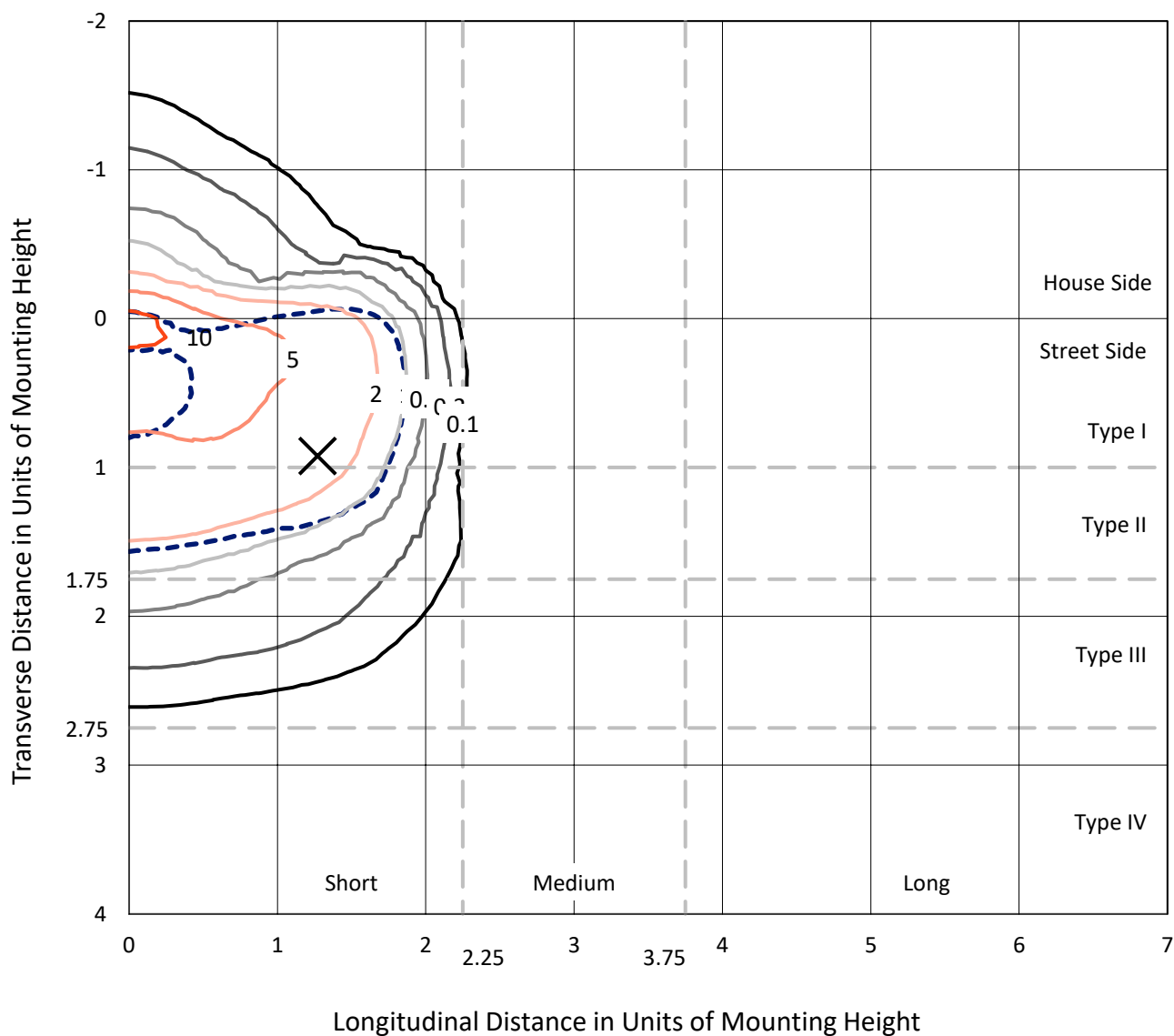
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

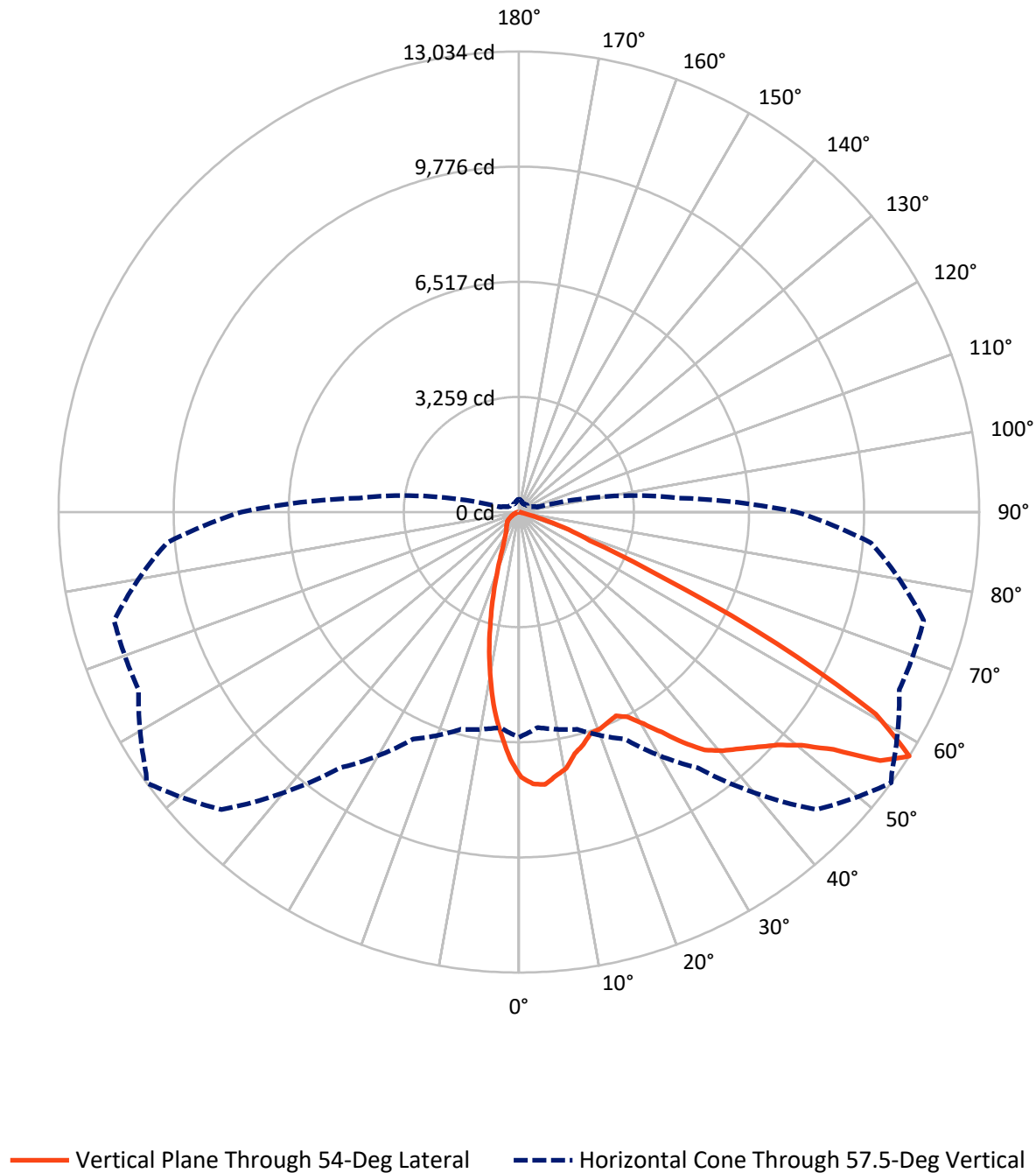
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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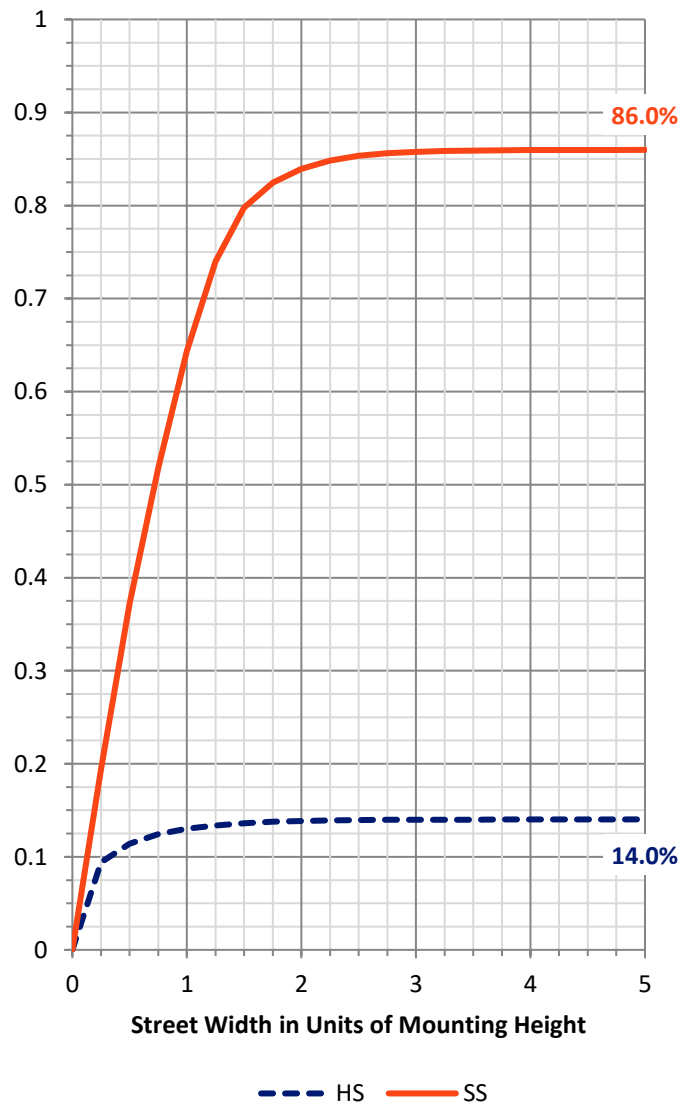
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2407.8   | 0.0    | 2407.8  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 14630.3  | 0.0    | 14630.3 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 17038.0  | 0.0    | 17038.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 628.1   | 3.7       |
| 10°-20°   | 1340.9  | 7.9       |
| 20°-30°   | 1777.0  | 10.4      |
| 30°-40°   | 2582.5  | 15.2      |
| 40°-50°   | 3829.4  | 22.5      |
| 50°-60°   | 4788.6  | 28.1      |
| 60°-70°   | 1888.9  | 11.1      |
| 70°-80°   | 188.1   | 1.1       |
| 80°-90°   | 14.6    | 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°    | 17038.0 | 100.0     |
| 0°-180°   | 17038.0 | 100.0     |

**Coefficient of Utilization**



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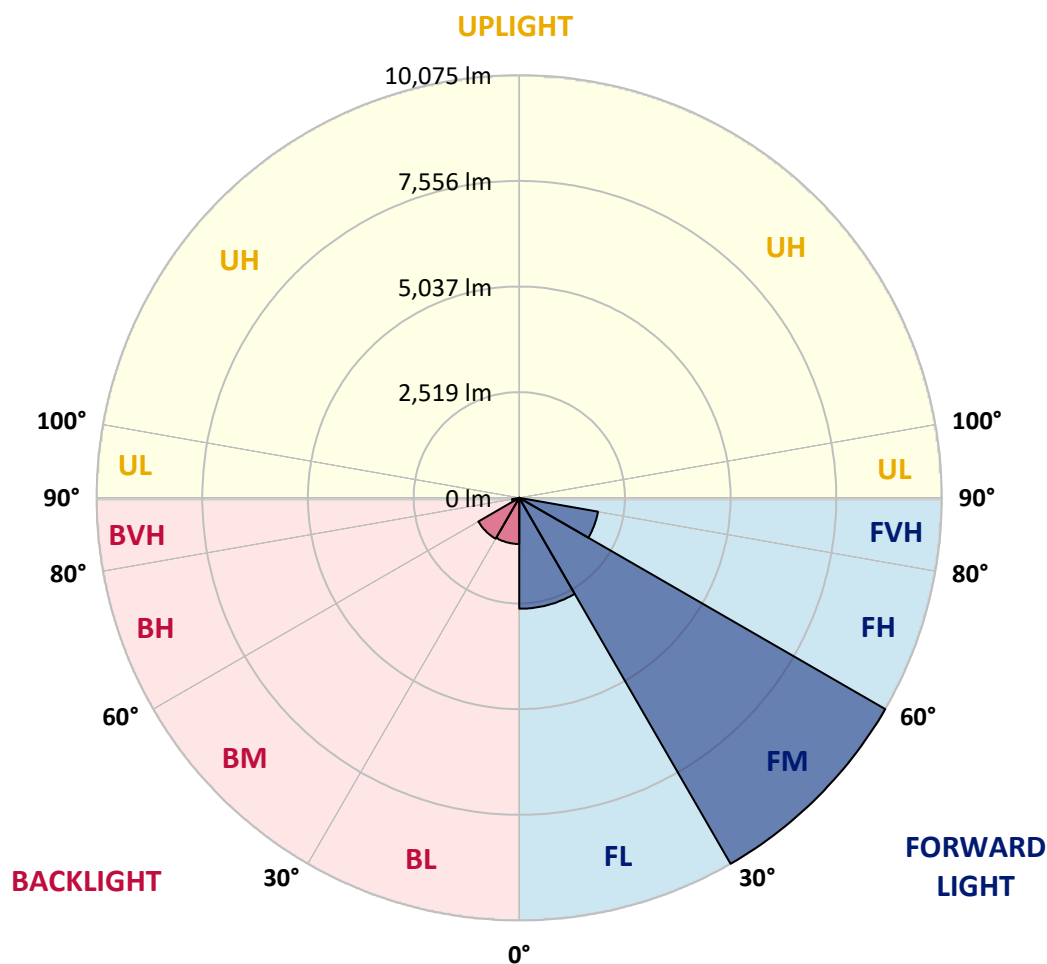
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2644.8  | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 10074.5 | 59.1      |                         |      |         |
| FH   | (60°-80°)   | 1904.3  | 11.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 6.6     | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1101.2  | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1125.9  | 6.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 172.7   | 1.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.0     | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5  | 7505.5  | 7505.5  | 7505.5  | 7505.5  | 7505.5  | 7505.5  |
| 2.5°  | 7942.7 | 7860.3 | 7866.6 | 7838.1 | 7800.1  | 7828.6  | 7705.1  | 7733.6  | 7730.4  | 7562.5  | 7451.6  |
| 5°    | 7743.1 | 7831.8 | 7739.9 | 7816.0 | 7743.1  | 7822.3  | 7746.3  | 7689.2  | 7597.3  | 7473.8  | 7267.9  |
| 7.5°  | 7404.1 | 7318.5 | 7343.9 | 7438.9 | 7454.8  | 7632.2  | 7537.2  | 7610.0  | 7572.0  | 7328.0  | 7046.1  |
| 10°   | 6722.9 | 6703.9 | 6830.6 | 6957.4 | 7112.6  | 7302.7  | 7375.6  | 7334.4  | 7305.9  | 7214.0  | 6837.0  |
| 12.5° | 6200.2 | 6254.0 | 6250.9 | 6460.0 | 6722.9  | 6830.6  | 7020.7  | 7014.4  | 7172.8  | 7001.7  | 6640.5  |
| 15°   | 5702.8 | 5731.3 | 5864.3 | 5994.2 | 6285.7  | 6593.0  | 6827.5  | 6859.2  | 7049.2  | 6928.9  | 6488.5  |
| 17.5° | 5398.6 | 5357.4 | 5462.0 | 5617.2 | 5915.0  | 6317.4  | 6577.2  | 6653.2  | 6913.0  | 6887.7  | 6314.2  |
| 20°   | 5097.6 | 5097.6 | 5183.2 | 5366.9 | 5639.4  | 6092.5  | 6555.0  | 6532.8  | 6913.0  | 6840.1  | 6127.3  |
| 22.5° | 4996.3 | 5046.9 | 5069.1 | 5208.5 | 5531.7  | 5921.4  | 6460.0  | 6501.1  | 6966.9  | 6818.0  | 6044.9  |
| 25°   | 5135.7 | 5069.1 | 5075.5 | 5186.3 | 5490.5  | 5839.0  | 6390.3  | 6482.1  | 7065.1  | 6928.9  | 5978.4  |
| 27.5° | 5157.8 | 5224.4 | 5243.4 | 5319.4 | 5522.2  | 5864.3  | 6564.5  | 6751.4  | 7309.0  | 7188.6  | 5997.4  |
| 30°   | 5351.1 | 5417.6 | 5414.5 | 5544.4 | 5683.8  | 6070.3  | 6954.2  | 6992.2  | 7812.8  | 7515.0  | 6114.6  |
| 32.5° | 5585.5 | 5655.2 | 5677.4 | 5829.5 | 5940.4  | 6447.3  | 7429.4  | 7527.6  | 8297.5  | 8028.2  | 6421.9  |
| 35°   | 5877.0 | 5851.7 | 5953.0 | 6105.1 | 6342.7  | 6998.6  | 8009.2  | 8174.0  | 8820.3  | 8693.5  | 6738.8  |
| 37.5° | 6241.4 | 6209.7 | 6307.9 | 6555.0 | 6878.2  | 7651.2  | 8544.6  | 8652.4  | 9200.5  | 9311.3  | 7324.9  |
| 40°   | 6498.0 | 6510.7 | 6808.5 | 7141.1 | 7483.3  | 8272.2  | 8883.6  | 8988.2  | 9466.6  | 9888.0  | 7768.4  |
| 42.5° | 6925.7 | 7004.9 | 7362.9 | 7768.4 | 8126.4  | 8737.9  | 9159.3  | 9260.7  | 9590.1  | 10350.5 | 8367.2  |
| 45°   | 7546.7 | 7511.8 | 7907.8 | 8360.9 | 8756.9  | 9222.6  | 9485.6  | 9450.7  | 9663.0  | 10809.9 | 8744.2  |
| 47.5° | 8345.0 | 8351.4 | 8614.3 | 9000.9 | 9412.7  | 9644.0  | 9849.9  | 9726.4  | 9815.1  | 11294.6 | 9248.0  |
| 50°   | 8890.0 | 8937.5 | 9149.8 | 9545.8 | 9751.7  | 10106.6 | 10369.5 | 10293.5 | 10265.0 | 11586.1 | 9564.8  |
| 52.5° | 9029.4 | 9171.9 | 9286.0 | 9780.2 | 10261.8 | 10822.6 | 11158.4 | 11320.0 | 10813.1 | 11684.3 | 9967.2  |
| 55°   | 7977.5 | 8104.3 | 8506.6 | 9184.6 | 10455.1 | 11956.8 | 12419.3 | 12422.5 | 11529.1 | 12121.5 | 10249.1 |
| 57.5° | 6377.6 | 6121.0 | 6368.1 | 7087.3 | 8839.3  | 11909.3 | 13034.0 | 12885.1 | 11887.1 | 11864.9 | 10005.2 |
| 60°   | 4410.1 | 4346.8 | 4362.6 | 4647.8 | 6117.8  | 9472.9  | 11614.6 | 11807.9 | 10946.1 | 10284.0 | 7920.5  |
| 62.5° | 3494.5 | 3440.7 | 3371.0 | 3339.3 | 3798.7  | 5902.4  | 8193.0  | 8465.4  | 7654.4  | 6669.1  | 4695.3  |
| 65°   | 2737.3 | 2705.6 | 2715.1 | 2841.9 | 2838.7  | 3348.8  | 4479.8  | 4368.9  | 3497.7  | 2585.3  | 1476.4  |
| 67.5° | 1847.1 | 1894.6 | 1932.6 | 2316.0 | 2512.4  | 2331.8  | 2163.9  | 2100.5  | 1137.4  | 478.4   | 326.3   |
| 70°   | 1039.2 | 1045.5 | 1086.7 | 1447.9 | 1907.3  | 1809.0  | 1492.2  | 1492.2  | 567.1   | 174.3   | 186.9   |
| 72.5° | 567.1  | 548.1  | 510.1  | 624.1  | 849.1   | 861.8   | 665.3   | 579.8   | 167.9   | 114.1   | 104.6   |
| 75°   | 275.6  | 272.5  | 234.4  | 193.3  | 183.8   | 152.1   | 117.2   | 107.7   | 76.0    | 72.9    | 63.4    |
| 77.5° | 57.0   | 53.9   | 28.5   | 28.5   | 31.7    | 34.9    | 44.4    | 44.4    | 53.9    | 53.9    | 44.4    |
| 80°   | 0.0    | 0.0    | 3.2    | 12.7   | 22.2    | 31.7    | 38.0    | 38.0    | 44.4    | 44.4    | 34.9    |
| 82.5° | 0.0    | 0.0    | 3.2    | 9.5    | 19.0    | 28.5    | 34.9    | 38.0    | 44.4    | 47.5    | 38.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 6.3    | 15.8    | 22.2    | 19.0    | 19.0    | 15.8    | 12.7    | 6.3     |
| 87.5° | 0.0    | 0.0    | 0.0    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 | 7505.5 |
| 2.5°  | 7394.6 | 7388.2 | 7242.5 | 7160.1 | 7011.2 | 6881.3 | 6776.8 | 6700.7 | 6700.7 | 6653.2 | 6608.9 |
| 5°    | 7185.5 | 7131.6 | 6821.1 | 6621.5 | 6339.6 | 6130.5 | 5987.9 | 5877.0 | 5702.8 | 5750.3 | 5563.4 |
| 7.5°  | 6925.7 | 6789.5 | 6377.6 | 6073.4 | 5683.8 | 5385.9 | 5081.8 | 4812.5 | 4552.7 | 4435.5 | 4498.8 |
| 10°   | 6646.9 | 6409.3 | 5854.8 | 5373.3 | 4888.5 | 4343.6 | 3988.8 | 3557.9 | 3291.8 | 3275.9 | 3206.2 |
| 12.5° | 6352.2 | 6082.9 | 5408.1 | 4742.8 | 4106.0 | 3450.2 | 2908.4 | 2506.0 | 2325.5 | 2125.9 | 2163.9 |
| 15°   | 6130.5 | 5731.3 | 4910.7 | 4109.2 | 3263.2 | 2601.1 | 2056.2 | 1745.7 | 1574.6 | 1527.1 | 1511.2 |
| 17.5° | 5889.7 | 5462.0 | 4403.8 | 3434.3 | 2559.9 | 1872.4 | 1479.5 | 1330.6 | 1264.1 | 1264.1 | 1254.6 |
| 20°   | 5639.4 | 5157.8 | 3900.1 | 2807.0 | 1919.9 | 1397.2 | 1184.9 | 1137.4 | 1134.2 | 1131.0 | 1131.0 |
| 22.5° | 5474.7 | 4809.3 | 3443.8 | 2230.4 | 1447.9 | 1118.4 | 1029.7 | 1010.7 | 1023.3 | 1061.3 | 1061.3 |
| 25°   | 5300.4 | 4473.5 | 2940.1 | 1720.3 | 1121.5 | 960.0  | 909.3  | 921.9  | 953.6  | 988.5  | 975.8  |
| 27.5° | 5123.0 | 4254.9 | 2464.9 | 1349.7 | 918.8  | 839.6  | 820.6  | 849.1  | 883.9  | 915.6  | 906.1  |
| 30°   | 5081.8 | 4020.4 | 2015.0 | 1023.3 | 788.9  | 731.9  | 744.5  | 769.9  | 804.7  | 817.4  | 830.1  |
| 32.5° | 5145.2 | 3836.7 | 1650.6 | 839.6  | 687.5  | 671.7  | 671.7  | 684.3  | 706.5  | 735.0  | 725.5  |
| 35°   | 5325.7 | 3732.1 | 1305.3 | 728.7  | 630.5  | 614.6  | 611.5  | 624.1  | 636.8  | 646.3  | 636.8  |
| 37.5° | 5601.4 | 3649.8 | 1067.7 | 646.3  | 592.5  | 567.1  | 560.8  | 557.6  | 570.3  | 573.4  | 579.8  |
| 40°   | 5953.0 | 3694.1 | 906.1  | 595.6  | 554.4  | 525.9  | 506.9  | 506.9  | 506.9  | 516.4  | 519.6  |
| 42.5° | 6333.2 | 3754.3 | 782.5  | 567.1  | 519.6  | 484.7  | 465.7  | 459.4  | 465.7  | 478.4  | 475.2  |
| 45°   | 6732.4 | 3871.5 | 703.3  | 522.8  | 487.9  | 443.5  | 418.2  | 411.9  | 427.7  | 453.1  | 449.9  |
| 47.5° | 7106.3 | 4039.5 | 643.1  | 494.2  | 456.2  | 415.0  | 383.4  | 377.0  | 405.5  | 440.4  | 443.5  |
| 50°   | 7480.1 | 4330.9 | 621.0  | 472.1  | 434.0  | 386.5  | 358.0  | 351.7  | 383.4  | 427.7  | 437.2  |
| 52.5° | 7911.0 | 4644.6 | 605.1  | 443.5  | 408.7  | 364.3  | 332.7  | 326.3  | 361.2  | 418.2  | 421.4  |
| 55°   | 8193.0 | 4910.7 | 592.5  | 392.9  | 361.2  | 329.5  | 304.1  | 301.0  | 339.0  | 389.7  | 402.4  |
| 57.5° | 7863.5 | 4540.0 | 548.1  | 342.2  | 307.3  | 291.5  | 269.3  | 269.3  | 301.0  | 348.5  | 358.0  |
| 60°   | 5962.6 | 2987.6 | 389.7  | 275.6  | 259.8  | 250.3  | 240.8  | 240.8  | 266.1  | 301.0  | 304.1  |
| 62.5° | 3491.4 | 1609.4 | 250.3  | 221.8  | 221.8  | 212.3  | 196.4  | 196.4  | 221.8  | 240.8  | 244.0  |
| 65°   | 1036.0 | 516.4  | 202.8  | 190.1  | 186.9  | 171.1  | 155.2  | 152.1  | 171.1  | 180.6  | 177.4  |
| 67.5° | 297.8  | 237.6  | 167.9  | 158.4  | 155.2  | 129.9  | 120.4  | 117.2  | 120.4  | 114.1  | 110.9  |
| 70°   | 177.4  | 161.6  | 129.9  | 133.1  | 117.2  | 95.0   | 85.5   | 82.4   | 76.0   | 66.5   | 60.2   |
| 72.5° | 98.2   | 98.2   | 95.0   | 101.4  | 82.4   | 63.4   | 53.9   | 44.4   | 34.9   | 28.5   | 25.3   |
| 75°   | 60.2   | 63.4   | 66.5   | 69.7   | 53.9   | 41.2   | 34.9   | 22.2   | 12.7   | 6.3    | 6.3    |
| 77.5° | 41.2   | 44.4   | 47.5   | 50.7   | 44.4   | 38.0   | 28.5   | 15.8   | 3.2    | 0.0    | 0.0    |
| 80°   | 31.7   | 34.9   | 41.2   | 44.4   | 47.5   | 50.7   | 38.0   | 15.8   | 3.2    | 0.0    | 0.0    |
| 82.5° | 34.9   | 38.0   | 47.5   | 44.4   | 44.4   | 44.4   | 34.9   | 15.8   | 3.2    | 0.0    | 0.0    |
| 85°   | 6.3    | 9.5    | 15.8   | 15.8   | 22.2   | 28.5   | 22.2   | 6.3    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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)