

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: P455824

Luminaire Tested: **GLAN-SA7A-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26349 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 215  
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

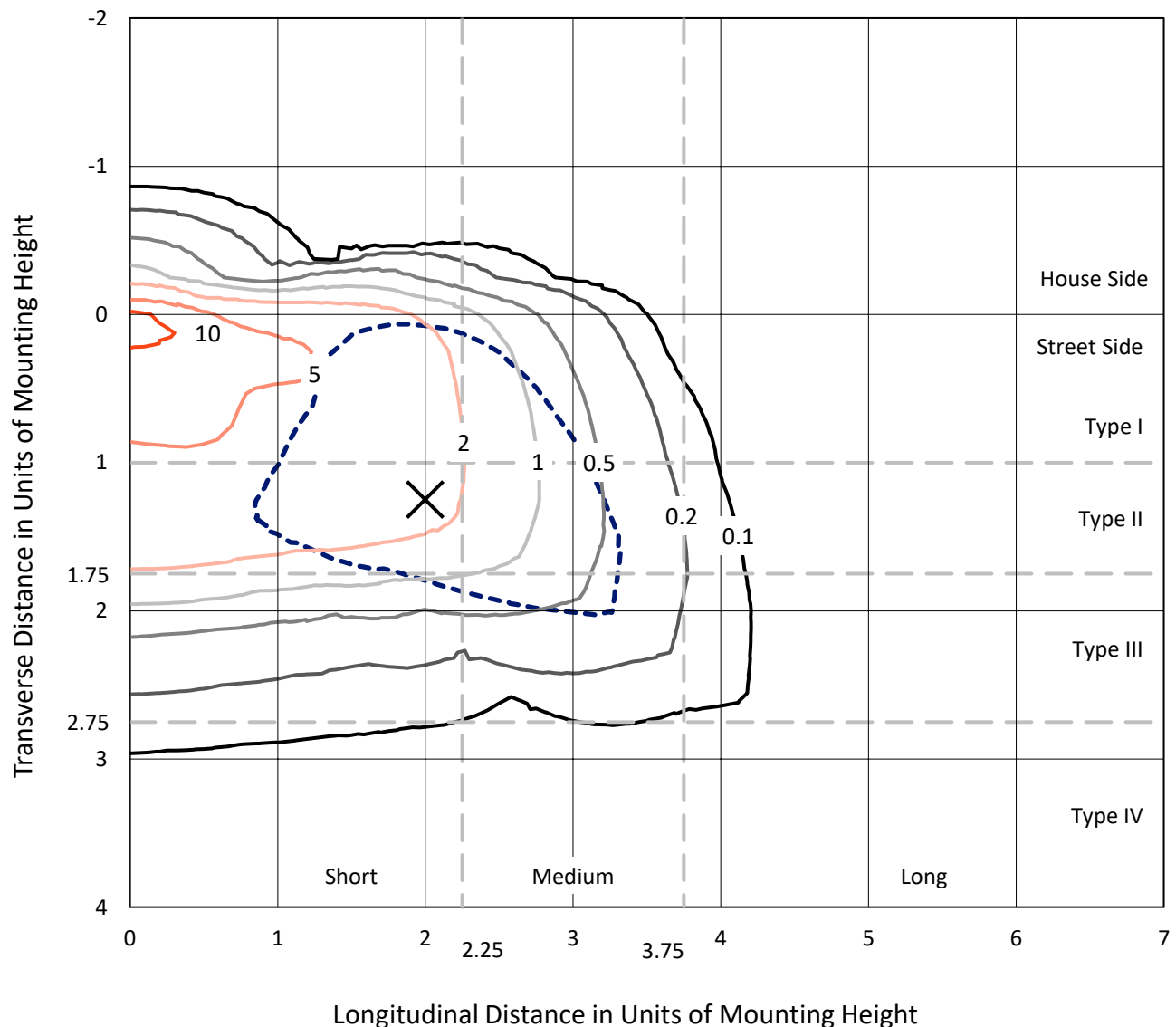


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

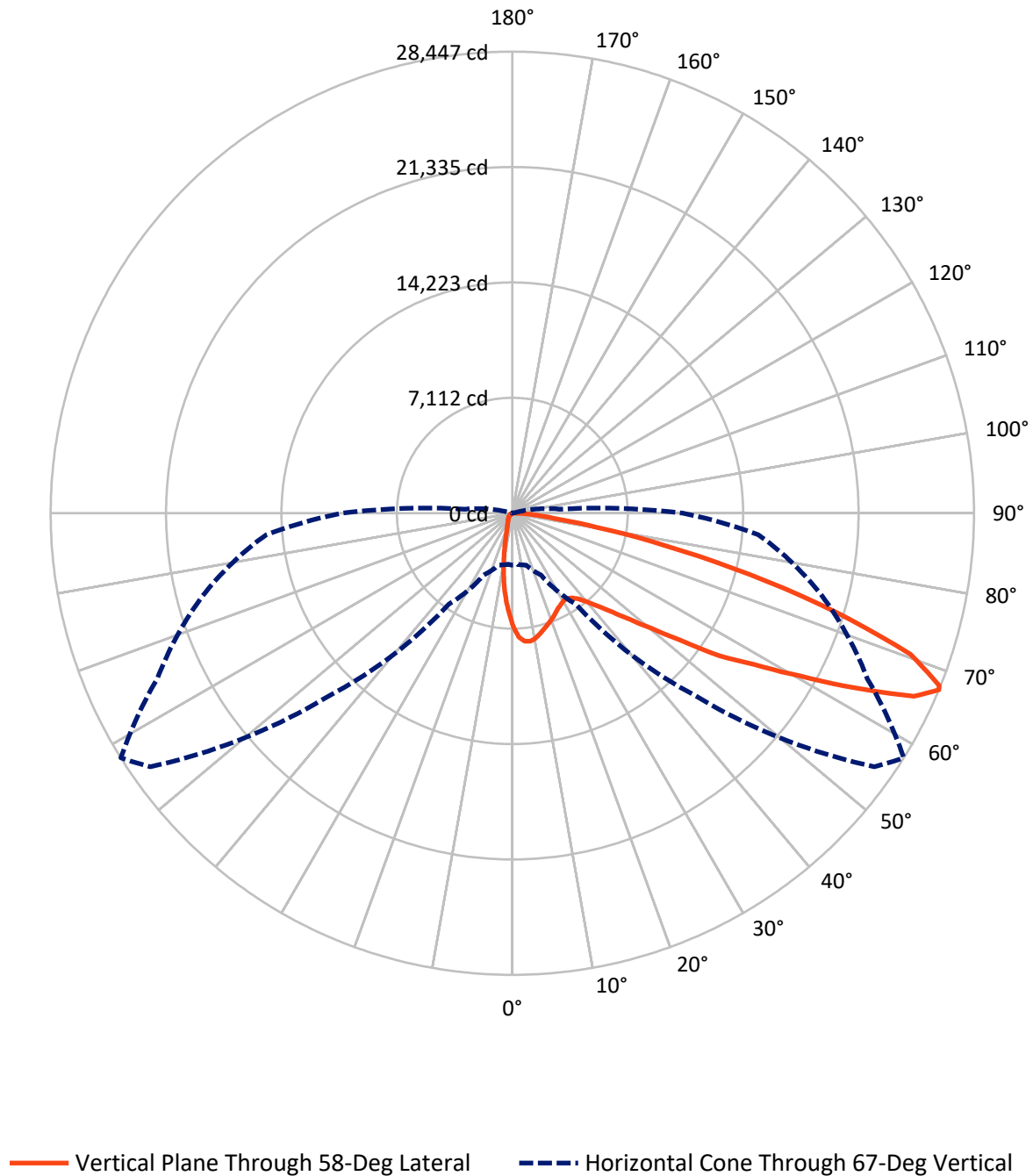


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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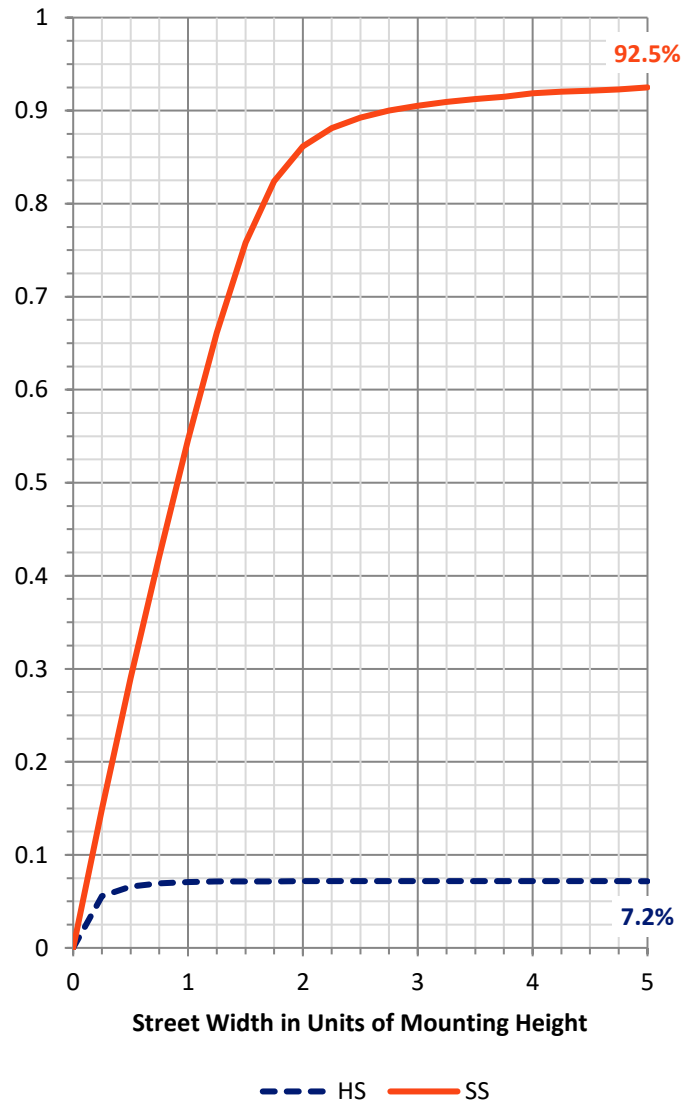
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1901.5   | 0.0    | 1901.5  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 24447.5  | 0.0    | 24447.5 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 26349.0  | 0.0    | 26349.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 566.8   | 2.2       |
| 10°-20°   | 1224.2  | 4.6       |
| 20°-30°   | 1658.8  | 6.3       |
| 30°-40°   | 2300.7  | 8.7       |
| 40°-50°   | 3669.3  | 13.9      |
| 50°-60°   | 6342.8  | 24.1      |
| 60°-70°   | 7245.4  | 27.5      |
| 70°-80°   | 3020.7  | 11.5      |
| 80°-90°   | 320.3   | 1.2       |
| 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°    | 26349.0 | 100.0     |
| 0°-180°   | 26349.0 | 100.0     |

**Coefficient of Utilization**



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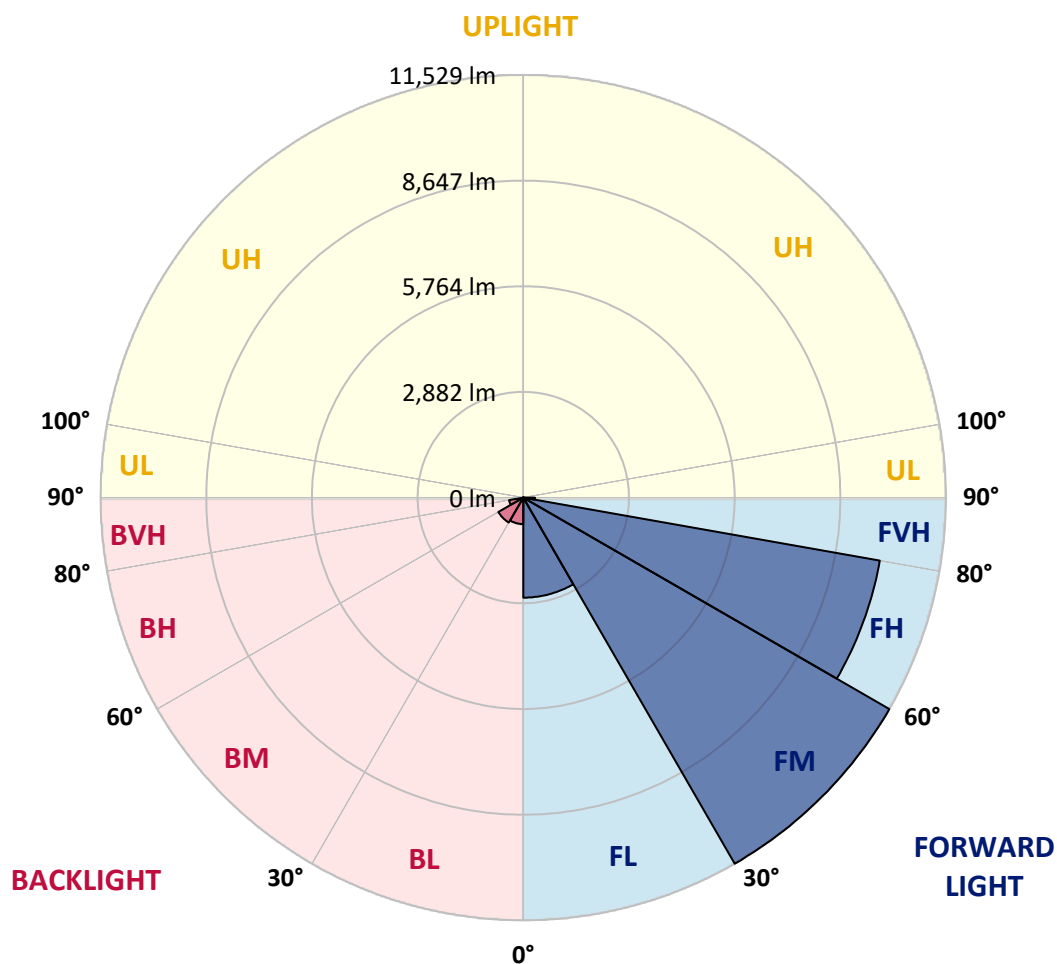
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2727.8  | 10.4      |                         |      |          |
| FM   | (30°-60°)   | 11528.8 | 43.8      |                         |      |          |
| FH   | (60°-80°)   | 9873.0  | 37.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 318.0   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 722.0   | 2.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 784.0   | 3.0       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 393.1   | 1.5       | 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: B2-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  | 6984.9  |
| 2.5°  | 8106.5  | 8118.8  | 8073.0  | 8036.0  | 7941.0  | 7838.8  | 7703.3  | 7631.1  | 7507.8  | 7294.8  | 7058.8  |
| 5°    | 8296.6  | 8312.5  | 8305.4  | 8296.6  | 8259.7  | 8161.1  | 7988.5  | 7925.1  | 7743.8  | 7396.9  | 6970.8  |
| 7.5°  | 7874.1  | 7932.2  | 7939.2  | 8007.9  | 8073.0  | 8081.8  | 8016.7  | 7969.1  | 7801.9  | 7395.1  | 6814.1  |
| 10°   | 7314.1  | 7352.9  | 7409.2  | 7488.5  | 7645.2  | 7775.5  | 7838.8  | 7831.8  | 7735.0  | 7340.5  | 6631.0  |
| 12.5° | 6748.9  | 6770.1  | 6856.3  | 6991.9  | 7183.8  | 7405.7  | 7574.7  | 7608.2  | 7609.9  | 7275.4  | 6477.8  |
| 15°   | 6263.0  | 6254.2  | 6321.1  | 6477.8  | 6747.2  | 7025.4  | 7328.2  | 7381.0  | 7465.6  | 7212.0  | 6335.2  |
| 17.5° | 5847.4  | 5893.2  | 5903.8  | 6076.3  | 6324.6  | 6685.6  | 7071.2  | 7164.5  | 7333.5  | 7157.4  | 6217.2  |
| 20°   | 5590.4  | 5615.0  | 5637.9  | 5734.7  | 5958.4  | 6338.7  | 6829.9  | 6958.5  | 7210.3  | 7108.1  | 6085.1  |
| 22.5° | 5514.7  | 5530.5  | 5511.1  | 5541.1  | 5699.5  | 6037.6  | 6567.6  | 6738.4  | 7092.3  | 7062.4  | 5977.7  |
| 25°   | 5572.8  | 5588.6  | 5542.8  | 5507.6  | 5562.2  | 5792.9  | 6314.0  | 6521.8  | 6997.2  | 7053.5  | 5896.7  |
| 27.5° | 5713.6  | 5743.6  | 5680.2  | 5616.8  | 5585.1  | 5660.8  | 6115.1  | 6356.3  | 6932.1  | 7095.8  | 5859.8  |
| 30°   | 5933.7  | 5951.3  | 5903.8  | 5826.3  | 5754.1  | 5678.4  | 6011.2  | 6241.8  | 6914.4  | 7194.4  | 5856.2  |
| 32.5° | 6173.2  | 6210.1  | 6183.7  | 6132.7  | 6039.4  | 5859.8  | 6041.1  | 6245.4  | 6956.7  | 7337.0  | 5900.3  |
| 35°   | 6469.0  | 6511.2  | 6535.9  | 6525.3  | 6405.6  | 6182.0  | 6231.3  | 6403.8  | 7069.4  | 7599.4  | 6020.0  |
| 37.5° | 6759.5  | 6796.5  | 6935.6  | 6983.1  | 6877.5  | 6666.2  | 6601.0  | 6715.5  | 7317.7  | 7942.7  | 6236.6  |
| 40°   | 7092.3  | 7141.6  | 7337.0  | 7518.4  | 7467.3  | 7245.5  | 7125.7  | 7220.8  | 7698.0  | 8460.4  | 6646.8  |
| 42.5° | 7411.0  | 7499.0  | 7796.6  | 8117.0  | 8164.6  | 7916.3  | 7837.1  | 7868.8  | 8261.4  | 9205.2  | 7219.1  |
| 45°   | 7863.5  | 7946.2  | 8330.1  | 8765.0  | 8988.6  | 8794.9  | 8713.9  | 8708.6  | 9034.4  | 10252.8 | 8147.0  |
| 47.5° | 8516.7  | 8590.7  | 9043.2  | 9472.8  | 9870.7  | 9897.2  | 9744.0  | 9796.8  | 10006.3 | 11478.3 | 9284.4  |
| 50°   | 9317.9  | 9492.2  | 9789.7  | 10237.0 | 10768.7 | 11198.3 | 11245.9 | 11175.5 | 11355.0 | 12897.5 | 10650.8 |
| 52.5° | 10481.7 | 10548.6 | 10821.5 | 11189.5 | 11812.8 | 12541.8 | 13107.0 | 13010.1 | 12953.8 | 14249.7 | 12031.2 |
| 55°   | 11349.8 | 11439.6 | 11863.9 | 12369.2 | 13283.1 | 14244.4 | 15469.9 | 15503.4 | 14792.0 | 15549.1 | 13381.7 |
| 57.5° | 11087.4 | 11224.8 | 11867.4 | 12883.4 | 14892.4 | 16649.6 | 17561.7 | 17584.6 | 16492.9 | 16811.6 | 14906.5 |
| 60°   | 9740.4  | 9805.6  | 10726.5 | 12082.2 | 15029.7 | 19255.5 | 20528.5 | 20343.7 | 18223.7 | 18223.7 | 16253.4 |
| 62.5° | 6907.4  | 7009.5  | 7756.1  | 9751.0  | 13573.6 | 20160.5 | 24081.7 | 23699.6 | 20607.8 | 19574.2 | 17056.3 |
| 65°   | 4414.2  | 4315.6  | 4810.4  | 6155.6  | 10112.0 | 18824.1 | 27175.3 | 27198.2 | 22851.0 | 20114.8 | 16617.9 |
| 67°   | 3197.5  | 3158.8  | 3301.4  | 4208.2  | 6856.3  | 15823.8 | 27240.5 | 28446.6 | 24139.8 | 19773.2 | 15216.4 |
| 67.5° | 2924.6  | 2954.5  | 3058.4  | 3796.2  | 6229.5  | 14399.4 | 26944.7 | 28372.7 | 24430.3 | 19567.2 | 14709.3 |
| 70°   | 2216.8  | 2165.7  | 2278.4  | 2685.1  | 3734.5  | 9083.7  | 23178.5 | 26022.1 | 24069.4 | 17522.9 | 11753.0 |
| 72.5° | 1630.5  | 1625.2  | 1781.9  | 2195.6  | 2875.3  | 4838.5  | 17399.7 | 20864.8 | 19664.0 | 13342.9 | 7400.4  |
| 75°   | 1100.5  | 1149.8  | 1399.8  | 1834.7  | 2605.9  | 3137.6  | 11862.1 | 15137.1 | 13651.1 | 7576.5  | 3025.0  |
| 77.5° | 626.8   | 630.3   | 901.5   | 1473.7  | 2340.0  | 2524.9  | 7028.9  | 9643.6  | 7226.1  | 2519.6  | 898.0   |
| 80°   | 271.2   | 297.6   | 447.2   | 1070.5  | 1940.3  | 2236.1  | 4030.3  | 5299.8  | 2922.8  | 533.5   | 290.5   |
| 82.5° | 100.4   | 118.0   | 197.2   | 658.5   | 1415.6  | 1841.7  | 2435.1  | 2530.2  | 991.3   | 188.4   | 181.4   |
| 85°   | 0.0     | 3.5     | 72.2    | 308.1   | 737.8   | 822.3   | 1626.9  | 1500.2  | 438.4   | 89.8    | 118.0   |
| 87.5° | 0.0     | 0.0     | 0.0     | 31.7    | 96.8    | 306.4   | 505.3   | 563.4   | 105.6   | 31.7    | 28.2    |
| 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°    | 6984.9  | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 | 6984.9 |
| 2.5°  | 6932.1  | 6817.6 | 6530.6 | 6243.6 | 6030.6 | 5852.7 | 5585.1 | 5438.9 | 5361.5 | 5247.0 | 5254.1 |
| 5°    | 6757.7  | 6525.3 | 6020.0 | 5497.0 | 5074.5 | 4662.5 | 4169.4 | 3970.5 | 3803.2 | 3708.1 | 3644.7 |
| 7.5°  | 6498.9  | 6155.6 | 5407.2 | 4710.0 | 4060.3 | 3340.1 | 2799.6 | 2438.6 | 2195.6 | 2105.9 | 2019.6 |
| 10°   | 6215.4  | 5759.4 | 4785.7 | 3819.1 | 2917.6 | 2174.5 | 1716.7 | 1385.7 | 1267.7 | 1158.6 | 1169.1 |
| 12.5° | 5953.1  | 5398.4 | 4215.2 | 3014.4 | 2044.2 | 1382.2 | 1077.6 | 942.0  | 903.3  | 890.9  | 890.9  |
| 15°   | 5738.3  | 5053.3 | 3602.5 | 2266.1 | 1401.6 | 993.1  | 862.8  | 825.8  | 811.7  | 808.2  | 808.2  |
| 17.5° | 5509.4  | 4725.8 | 3049.6 | 1674.5 | 1019.5 | 831.1  | 787.1  | 762.4  | 757.1  | 753.6  | 753.6  |
| 20°   | 5305.1  | 4396.6 | 2524.9 | 1246.6 | 824.0  | 748.3  | 720.1  | 704.3  | 699.0  | 695.5  | 697.3  |
| 22.5° | 5111.4  | 4104.3 | 2031.9 | 942.0  | 725.4  | 681.4  | 653.2  | 637.4  | 626.8  | 618.0  | 619.8  |
| 25°   | 4938.9  | 3822.6 | 1634.0 | 771.2  | 653.2  | 614.5  | 586.3  | 563.4  | 540.5  | 530.0  | 528.2  |
| 27.5° | 4817.4  | 3576.1 | 1273.0 | 660.3  | 588.1  | 545.8  | 510.6  | 482.4  | 452.5  | 436.7  | 433.1  |
| 30°   | 4717.0  | 3326.0 | 1007.1 | 582.8  | 522.9  | 482.4  | 438.4  | 397.9  | 366.2  | 350.4  | 343.3  |
| 32.5° | 4651.9  | 3088.3 | 794.1  | 519.4  | 468.4  | 419.1  | 369.8  | 329.3  | 294.0  | 278.2  | 274.7  |
| 35°   | 4641.3  | 2889.4 | 649.7  | 466.6  | 419.1  | 366.2  | 315.2  | 271.2  | 241.2  | 225.4  | 221.9  |
| 37.5° | 4717.0  | 2736.2 | 544.1  | 424.3  | 378.6  | 320.5  | 264.1  | 223.6  | 197.2  | 184.9  | 183.1  |
| 40°   | 4919.5  | 2639.4 | 471.9  | 389.1  | 341.6  | 278.2  | 225.4  | 190.2  | 163.7  | 151.4  | 151.4  |
| 42.5° | 5305.1  | 2642.9 | 424.3  | 355.7  | 304.6  | 237.7  | 191.9  | 158.5  | 135.6  | 125.0  | 121.5  |
| 45°   | 5907.3  | 2762.6 | 383.8  | 322.2  | 269.4  | 206.0  | 163.7  | 130.3  | 107.4  | 98.6   | 98.6   |
| 47.5° | 6713.7  | 3000.3 | 348.6  | 288.8  | 237.7  | 176.1  | 139.1  | 105.6  | 86.3   | 77.5   | 77.5   |
| 50°   | 7768.4  | 3382.4 | 318.7  | 260.6  | 211.3  | 151.4  | 112.7  | 86.3   | 66.9   | 59.9   | 58.1   |
| 52.5° | 8870.6  | 3854.3 | 283.5  | 235.9  | 181.4  | 128.5  | 91.6   | 66.9   | 51.1   | 45.8   | 44.0   |
| 55°   | 10087.3 | 4315.6 | 250.0  | 211.3  | 147.9  | 107.4  | 72.2   | 52.8   | 37.0   | 31.7   | 31.7   |
| 57.5° | 11314.6 | 4768.1 | 209.5  | 176.1  | 116.2  | 79.2   | 56.3   | 38.7   | 24.7   | 19.4   | 19.4   |
| 60°   | 12353.4 | 4914.2 | 177.8  | 142.6  | 88.0   | 56.3   | 40.5   | 24.7   | 14.1   | 8.8    | 8.8    |
| 62.5° | 12496.0 | 4421.2 | 149.7  | 109.2  | 63.4   | 38.7   | 21.1   | 14.1   | 5.3    | 3.5    | 3.5    |
| 65°   | 11721.3 | 3591.9 | 125.0  | 82.8   | 42.3   | 19.4   | 8.8    | 5.3    | 1.8    | 0.0    | 0.0    |
| 67°   | 10502.8 | 2912.3 | 102.1  | 61.6   | 29.9   | 12.3   | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    |
| 67.5° | 10191.2 | 2776.7 | 98.6   | 58.1   | 26.4   | 10.6   | 3.5    | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°   | 7997.3  | 2079.4 | 70.4   | 35.2   | 15.8   | 7.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4970.6  | 1176.2 | 51.1   | 21.1   | 10.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1878.7  | 412.0  | 35.2   | 14.1   | 7.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 584.6   | 156.7  | 21.1   | 10.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 197.2   | 59.9   | 14.1   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 121.5   | 24.7   | 8.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 75.7    | 10.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.1    | 3.5    | 1.8    | 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)