

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: P456015

Luminaire Tested: **GLAN-SA7B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23868 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

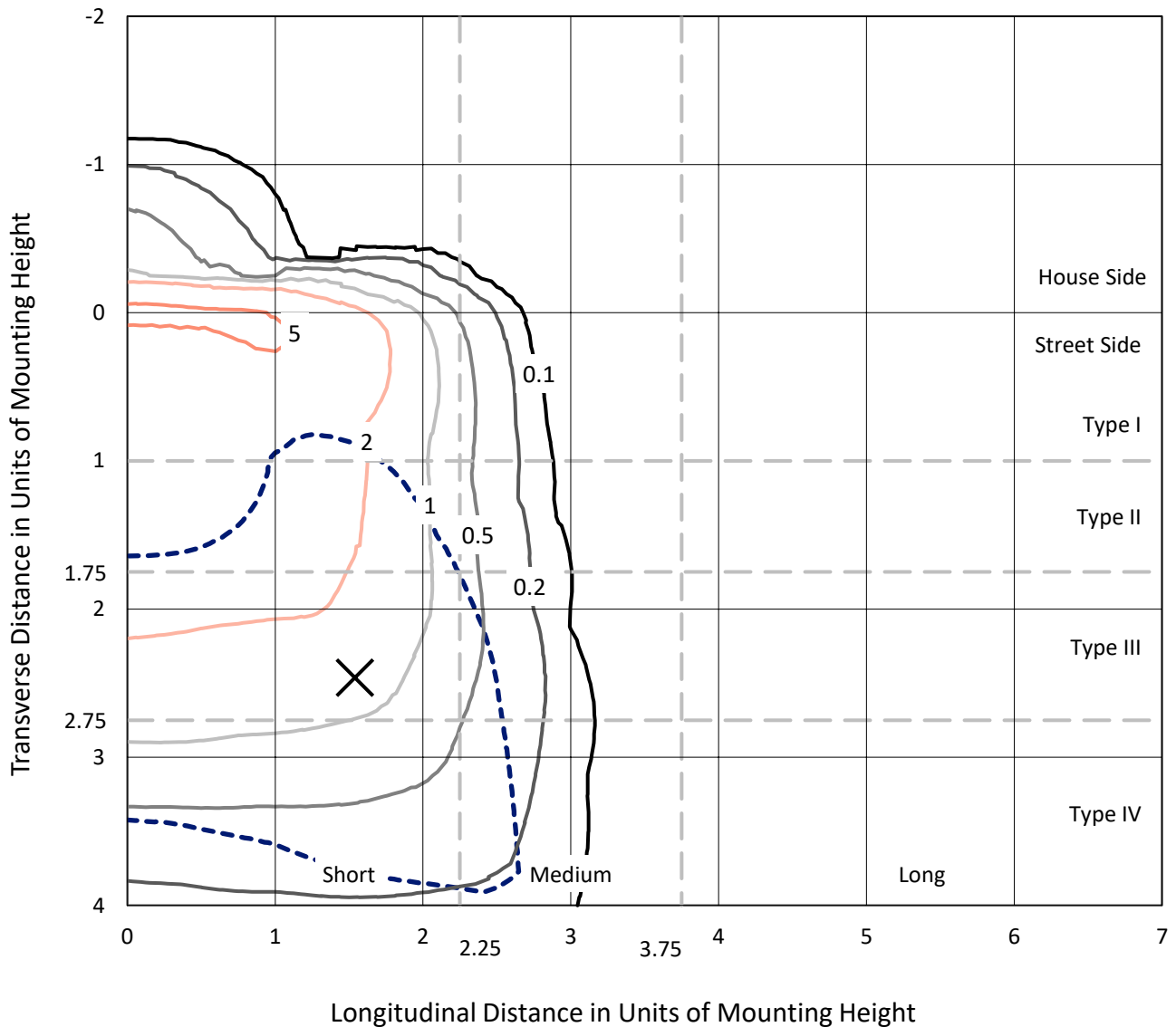
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

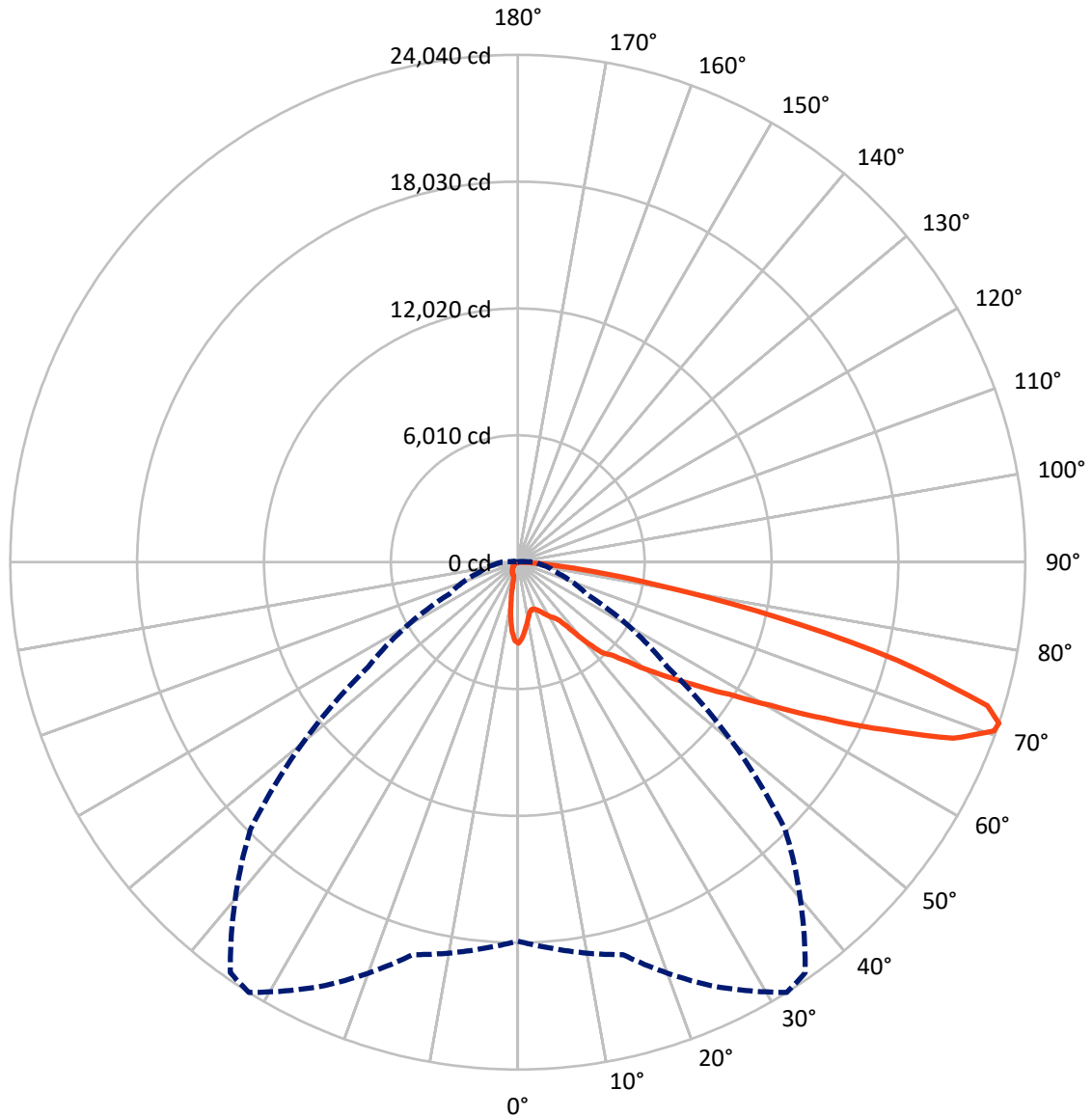
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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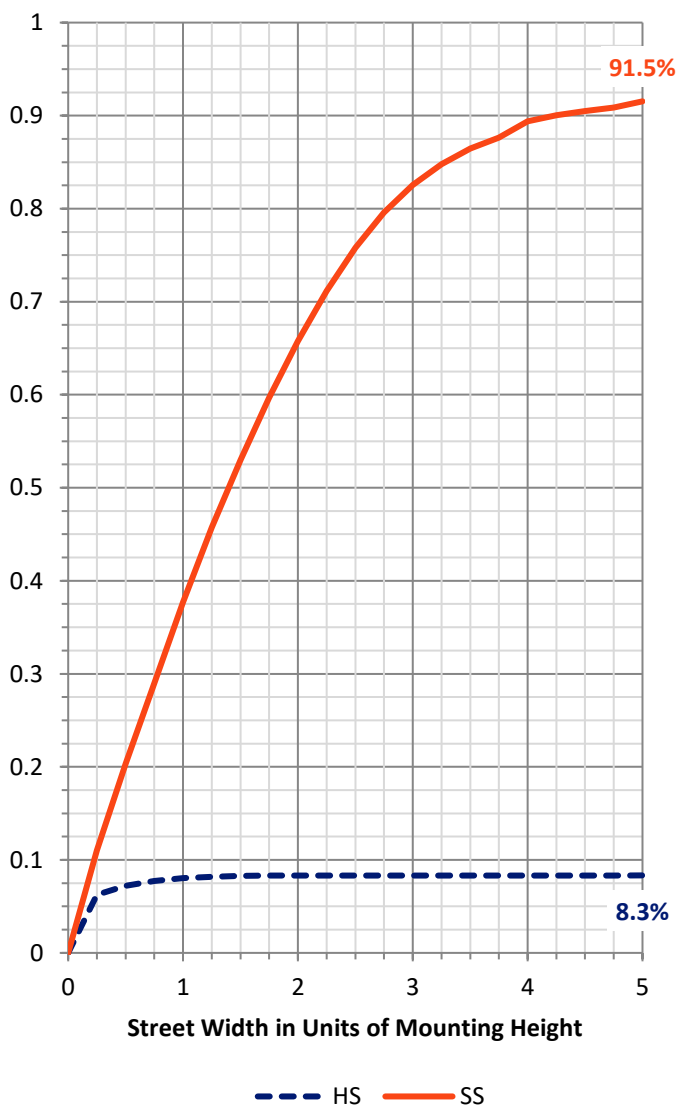
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1999.2   | 0.0    | 1999.2  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 21868.8  | 0.0    | 21868.8 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 23868.0  | 0.0    | 23868.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 312.1   | 1.3       |
| 10°-20°   | 677.4   | 2.8       |
| 20°-30°   | 1053.8  | 4.4       |
| 30°-40°   | 1755.6  | 7.4       |
| 40°-50°   | 3265.7  | 13.7      |
| 50°-60°   | 5243.2  | 22.0      |
| 60°-70°   | 7052.4  | 29.5      |
| 70°-80°   | 4184.3  | 17.5      |
| 80°-90°   | 323.4   | 1.4       |
| 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°    | 23868.0 | 100.0     |
| 0°-180°   | 23868.0 | 100.0     |

**Coefficient of Utilization**

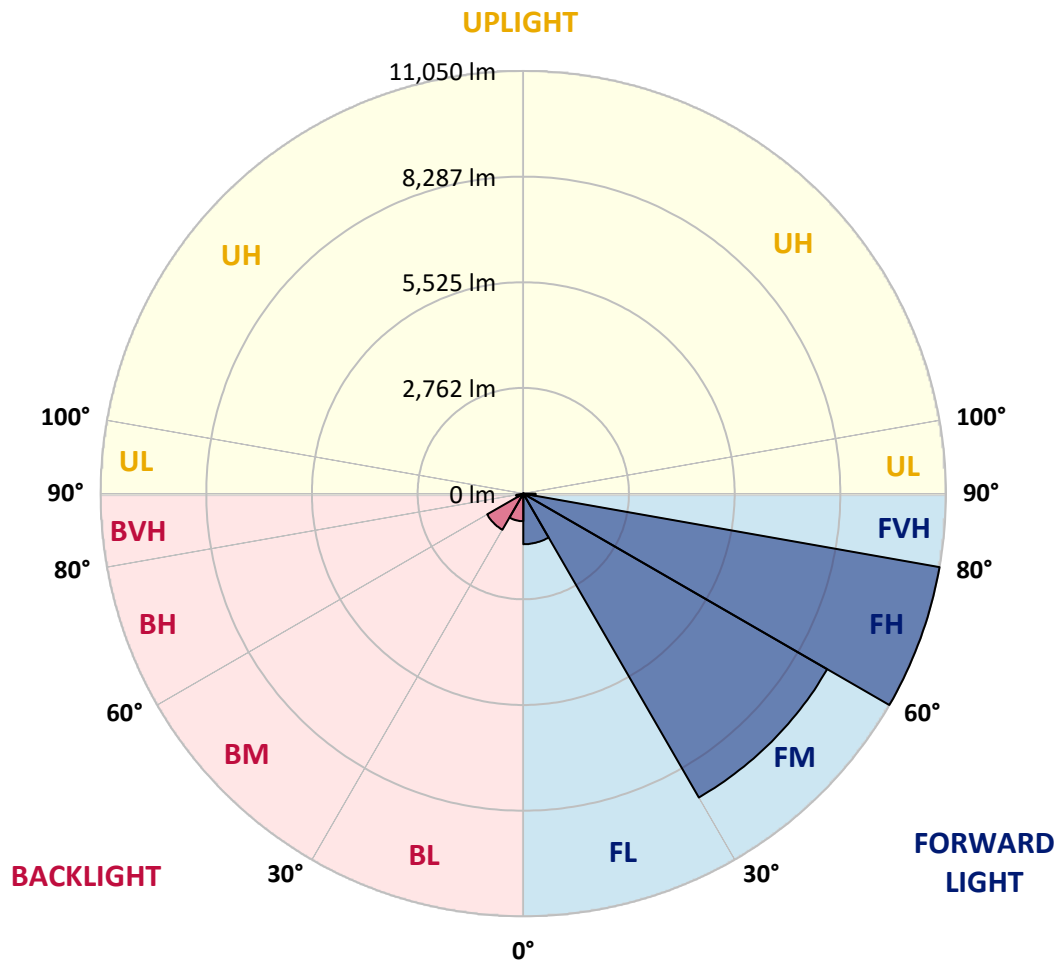


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1322.9  | 5.5       |                         |      |          |
| FM (30°-60°)   | 9174.0  | 38.4      |                         |      |          |
| FH (60°-80°)   | 11049.7 | 46.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 322.2   | 1.3       |                         |      | G3/500   |
| BL (0°-30°)    | 720.4   | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 1090.6  | 4.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 187.0   | 0.8       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 1.3     | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 32°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  | 3838.3  |
| 2.5°  | 3559.9  | 3596.5  | 3591.0  | 3603.8  | 3635.0  | 3647.8  | 3682.6  | 3721.1  | 3774.2  | 3810.9  | 3834.7  |
| 5°    | 3187.9  | 3215.4  | 3219.1  | 3283.2  | 3314.4  | 3349.2  | 3451.8  | 3563.5  | 3688.1  | 3787.0  | 3853.0  |
| 7.5°  | 2790.4  | 2805.0  | 2834.3  | 2918.6  | 2997.4  | 3032.2  | 3187.9  | 3382.1  | 3578.2  | 3763.2  | 3882.3  |
| 10°   | 2462.4  | 2478.9  | 2532.0  | 2621.8  | 2695.1  | 2740.9  | 2957.1  | 3200.8  | 3475.6  | 3750.4  | 3924.5  |
| 12.5° | 2275.5  | 2284.7  | 2304.8  | 2385.5  | 2478.9  | 2528.4  | 2761.0  | 3039.5  | 3393.1  | 3755.9  | 3995.9  |
| 15°   | 2262.7  | 2259.0  | 2235.2  | 2268.2  | 2352.5  | 2403.8  | 2631.0  | 2929.6  | 3319.8  | 3774.2  | 4080.2  |
| 17.5° | 2330.5  | 2321.3  | 2264.5  | 2264.5  | 2334.2  | 2376.3  | 2576.0  | 2871.0  | 3283.2  | 3816.4  | 4199.3  |
| 20°   | 2434.9  | 2420.3  | 2326.8  | 2319.5  | 2387.3  | 2431.3  | 2609.0  | 2874.6  | 3290.5  | 3895.1  | 4358.7  |
| 22.5° | 2566.8  | 2550.3  | 2409.3  | 2412.9  | 2486.2  | 2530.2  | 2704.2  | 2940.6  | 3336.3  | 3992.2  | 4529.1  |
| 25°   | 2739.1  | 2720.7  | 2554.0  | 2546.7  | 2623.6  | 2662.1  | 2845.3  | 3057.9  | 3400.5  | 4113.2  | 4752.6  |
| 27.5° | 2968.1  | 2929.6  | 2729.9  | 2718.9  | 2801.4  | 2850.8  | 3015.7  | 3215.4  | 3514.1  | 4279.9  | 5053.1  |
| 30°   | 3156.8  | 3114.6  | 2924.1  | 2894.8  | 2982.7  | 3021.2  | 3191.6  | 3427.9  | 3737.6  | 4571.2  | 5469.0  |
| 32.5° | 3404.1  | 3341.8  | 3118.3  | 3041.4  | 3134.8  | 3184.3  | 3446.3  | 3823.7  | 4069.2  | 4879.0  | 5963.6  |
| 35°   | 3961.1  | 3922.6  | 3649.6  | 3380.3  | 3374.8  | 3437.1  | 3821.9  | 4223.1  | 4410.0  | 5359.0  | 6637.9  |
| 37.5° | 4758.1  | 4730.6  | 4441.1  | 4080.2  | 3975.8  | 3946.4  | 4278.1  | 4662.8  | 4954.1  | 6018.6  | 7422.0  |
| 40°   | 5683.3  | 5619.2  | 5353.5  | 5047.6  | 4912.0  | 4825.9  | 4816.7  | 5316.9  | 5665.0  | 6914.5  | 8239.2  |
| 42.5° | 6346.6  | 6229.3  | 5906.8  | 5884.9  | 5855.5  | 5765.8  | 5505.6  | 6273.3  | 6582.9  | 7878.2  | 9113.1  |
| 45°   | 7042.8  | 6865.1  | 6385.0  | 6302.6  | 6291.6  | 6286.1  | 6546.3  | 7405.5  | 7583.3  | 8922.6  | 10010.8 |
| 47.5° | 7583.3  | 7442.2  | 7048.3  | 7011.6  | 7057.4  | 7182.0  | 7922.2  | 8607.4  | 8570.8  | 9853.3  | 10763.9 |
| 50°   | 8303.3  | 8197.0  | 7759.1  | 7828.8  | 8065.1  | 8268.5  | 9474.0  | 9917.4  | 9382.4  | 10586.1 | 11311.7 |
| 52.5° | 9153.4  | 8957.4  | 8550.6  | 8739.3  | 9102.1  | 9441.1  | 11121.1 | 11064.3 | 9952.2  | 11137.6 | 11720.2 |
| 55°   | 9889.9  | 9750.7  | 9611.4  | 9807.5  | 10349.8 | 10773.0 | 12608.8 | 11923.6 | 10366.3 | 11581.0 | 11899.8 |
| 57.5° | 11135.8 | 11102.8 | 10959.9 | 11159.6 | 11817.3 | 12257.1 | 13940.8 | 12590.5 | 10631.9 | 11811.8 | 11689.1 |
| 60°   | 12978.9 | 12925.8 | 12660.1 | 12914.8 | 13772.2 | 14463.0 | 15168.3 | 13189.6 | 10692.4 | 11722.1 | 11082.7 |
| 62.5° | 15195.8 | 15014.4 | 14787.3 | 15162.8 | 16339.1 | 16643.2 | 16324.4 | 13545.1 | 10467.1 | 11007.5 | 9620.6  |
| 65°   | 17266.1 | 17079.3 | 17084.8 | 17876.3 | 19156.9 | 19364.0 | 17672.9 | 13491.9 | 9807.5  | 9217.5  | 7095.9  |
| 67.5° | 18851.0 | 18819.8 | 19043.3 | 20587.8 | 22262.4 | 22119.5 | 18878.4 | 12696.8 | 7852.6  | 5974.6  | 3770.6  |
| 70°   | 18931.6 | 18992.0 | 19633.3 | 22240.4 | 23940.7 | 23713.5 | 18775.8 | 10320.5 | 4895.5  | 2748.2  | 1485.9  |
| 71°   | 17956.9 | 18363.6 | 19250.4 | 22189.1 | 24039.6 | 23744.6 | 17911.1 | 8644.1  | 3591.0  | 1916.4  | 1071.8  |
| 72.5° | 15302.1 | 15516.4 | 17432.9 | 20882.8 | 23257.3 | 22627.0 | 15718.0 | 6058.9  | 2299.3  | 1172.6  | 615.6   |
| 75°   | 8427.9  | 8955.5  | 11674.4 | 16383.1 | 18601.8 | 18048.5 | 10243.5 | 2878.3  | 1146.9  | 641.3   | 254.7   |
| 77.5° | 4012.4  | 3909.8  | 5696.1  | 9743.4  | 12612.5 | 12583.2 | 5161.2  | 1278.8  | 668.7   | 434.2   | 128.3   |
| 80°   | 1146.9  | 1289.8  | 2180.3  | 4631.7  | 7002.5  | 7079.4  | 1982.4  | 617.4   | 463.5   | 338.9   | 66.0    |
| 82.5° | 346.3   | 353.6   | 800.6   | 2048.3  | 3482.9  | 3283.2  | 743.9   | 315.1   | 333.5   | 269.3   | 38.5    |
| 85°   | 60.5    | 75.1    | 236.3   | 721.9   | 1328.3  | 1007.7  | 186.9   | 150.2   | 219.9   | 177.7   | 22.0    |
| 87.5° | 3.7     | 5.5     | 78.8    | 82.4    | 117.3   | 67.8    | 33.0    | 22.0    | 47.6    | 47.6    | 12.8    |
| 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°    | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 | 3838.3 |
| 2.5°  | 3851.2 | 3862.2 | 3854.8 | 3838.3 | 3810.9 | 3777.9 | 3733.9 | 3697.3 | 3666.1 | 3649.6 | 3669.8 |
| 5°    | 3875.0 | 3889.6 | 3853.0 | 3770.6 | 3646.0 | 3510.4 | 3356.5 | 3237.4 | 3144.0 | 3114.6 | 3103.7 |
| 7.5°  | 3911.6 | 3920.8 | 3821.9 | 3638.6 | 3374.8 | 3054.2 | 2773.9 | 2537.5 | 2354.3 | 2299.3 | 2218.7 |
| 10°   | 3959.3 | 3953.8 | 3766.9 | 3426.1 | 2962.6 | 2480.7 | 2046.5 | 1724.0 | 1480.4 | 1392.4 | 1385.1 |
| 12.5° | 4032.6 | 4003.2 | 3697.3 | 3136.6 | 2471.6 | 1841.3 | 1304.5 | 1020.5 | 866.6  | 815.3  | 804.3  |
| 15°   | 4124.2 | 4054.5 | 3587.3 | 2797.7 | 1892.6 | 1189.1 | 804.3  | 718.2  | 698.0  | 694.4  | 690.7  |
| 17.5° | 4232.3 | 4122.3 | 3442.6 | 2381.8 | 1330.1 | 771.3  | 672.4  | 670.6  | 672.4  | 668.7  | 666.9  |
| 20°   | 4378.8 | 4193.8 | 3270.4 | 1888.9 | 879.4  | 650.4  | 641.3  | 641.3  | 643.1  | 641.3  | 641.3  |
| 22.5° | 4534.6 | 4278.1 | 3057.9 | 1441.9 | 663.2  | 617.4  | 615.6  | 619.3  | 622.9  | 621.1  | 621.1  |
| 25°   | 4726.9 | 4388.0 | 2777.5 | 987.5  | 593.6  | 590.0  | 591.8  | 599.1  | 606.4  | 608.3  | 606.4  |
| 27.5° | 5005.4 | 4523.6 | 2477.1 | 679.7  | 544.1  | 547.8  | 566.1  | 584.5  | 595.4  | 597.3  | 597.3  |
| 30°   | 5318.7 | 4673.8 | 2085.0 | 551.5  | 503.8  | 503.8  | 525.8  | 560.6  | 584.5  | 588.1  | 590.0  |
| 32.5° | 5721.8 | 4847.9 | 1650.8 | 496.5  | 465.4  | 461.7  | 481.9  | 524.0  | 568.0  | 580.8  | 580.8  |
| 35°   | 6220.1 | 5053.1 | 1227.5 | 461.7  | 437.9  | 428.7  | 439.7  | 474.5  | 531.3  | 568.0  | 571.6  |
| 37.5° | 6804.6 | 5247.3 | 897.8  | 430.6  | 412.2  | 399.4  | 406.7  | 434.2  | 480.0  | 535.0  | 549.6  |
| 40°   | 7345.1 | 5419.5 | 670.6  | 404.9  | 386.6  | 377.4  | 382.9  | 395.7  | 434.2  | 485.5  | 494.7  |
| 42.5° | 7935.0 | 5553.2 | 533.2  | 377.4  | 360.9  | 357.3  | 357.3  | 362.8  | 388.4  | 417.7  | 419.6  |
| 45°   | 8523.1 | 5600.9 | 447.0  | 344.4  | 333.5  | 337.1  | 335.3  | 331.6  | 342.6  | 338.9  | 338.9  |
| 47.5° | 8942.7 | 5544.1 | 370.1  | 313.3  | 313.3  | 318.8  | 309.6  | 296.8  | 291.3  | 269.3  | 271.2  |
| 50°   | 9230.4 | 5337.0 | 304.1  | 276.7  | 291.3  | 298.6  | 280.3  | 260.2  | 240.0  | 216.2  | 210.7  |
| 52.5° | 9349.4 | 4968.8 | 249.2  | 229.0  | 258.3  | 267.5  | 245.5  | 221.7  | 190.5  | 170.4  | 164.9  |
| 55°   | 9272.5 | 4514.4 | 207.0  | 186.9  | 218.0  | 229.0  | 207.0  | 179.6  | 144.7  | 122.8  | 119.1  |
| 57.5° | 8933.5 | 3972.1 | 175.9  | 148.4  | 174.1  | 181.4  | 166.7  | 137.4  | 102.6  | 80.6   | 80.6   |
| 60°   | 8347.3 | 3411.5 | 142.9  | 117.3  | 130.1  | 141.1  | 126.4  | 98.9   | 69.6   | 49.5   | 45.8   |
| 62.5° | 7158.2 | 2770.2 | 115.4  | 91.6   | 91.6   | 100.8  | 87.9   | 71.5   | 44.0   | 25.7   | 23.8   |
| 65°   | 5168.5 | 1899.9 | 91.6   | 67.8   | 66.0   | 66.0   | 55.0   | 47.6   | 25.7   | 11.0   | 7.3    |
| 67.5° | 2808.7 | 1071.8 | 73.3   | 51.3   | 45.8   | 44.0   | 34.8   | 27.5   | 11.0   | 1.8    | 0.0    |
| 70°   | 1104.8 | 412.2  | 56.8   | 34.8   | 29.3   | 27.5   | 18.3   | 12.8   | 7.3    | 0.0    | 0.0    |
| 71°   | 749.3  | 284.0  | 49.5   | 29.3   | 23.8   | 20.2   | 14.7   | 11.0   | 5.5    | 0.0    | 0.0    |
| 72.5° | 428.7  | 175.9  | 38.5   | 22.0   | 18.3   | 14.7   | 11.0   | 7.3    | 5.5    | 0.0    | 0.0    |
| 75°   | 186.9  | 89.8   | 23.8   | 16.5   | 12.8   | 9.2    | 7.3    | 5.5    | 1.8    | 0.0    | 0.0    |
| 77.5° | 95.3   | 49.5   | 16.5   | 12.8   | 7.3    | 5.5    | 3.7    | 1.8    | 0.0    | 0.0    | 0.0    |
| 80°   | 53.1   | 25.7   | 11.0   | 7.3    | 5.5    | 3.7    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 82.5° | 29.3   | 14.7   | 5.5    | 3.7    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.3   | 9.2    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.2    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 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)