

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: P457662

Luminaire Tested: **GLAN-SA9A-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30229 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 274  
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

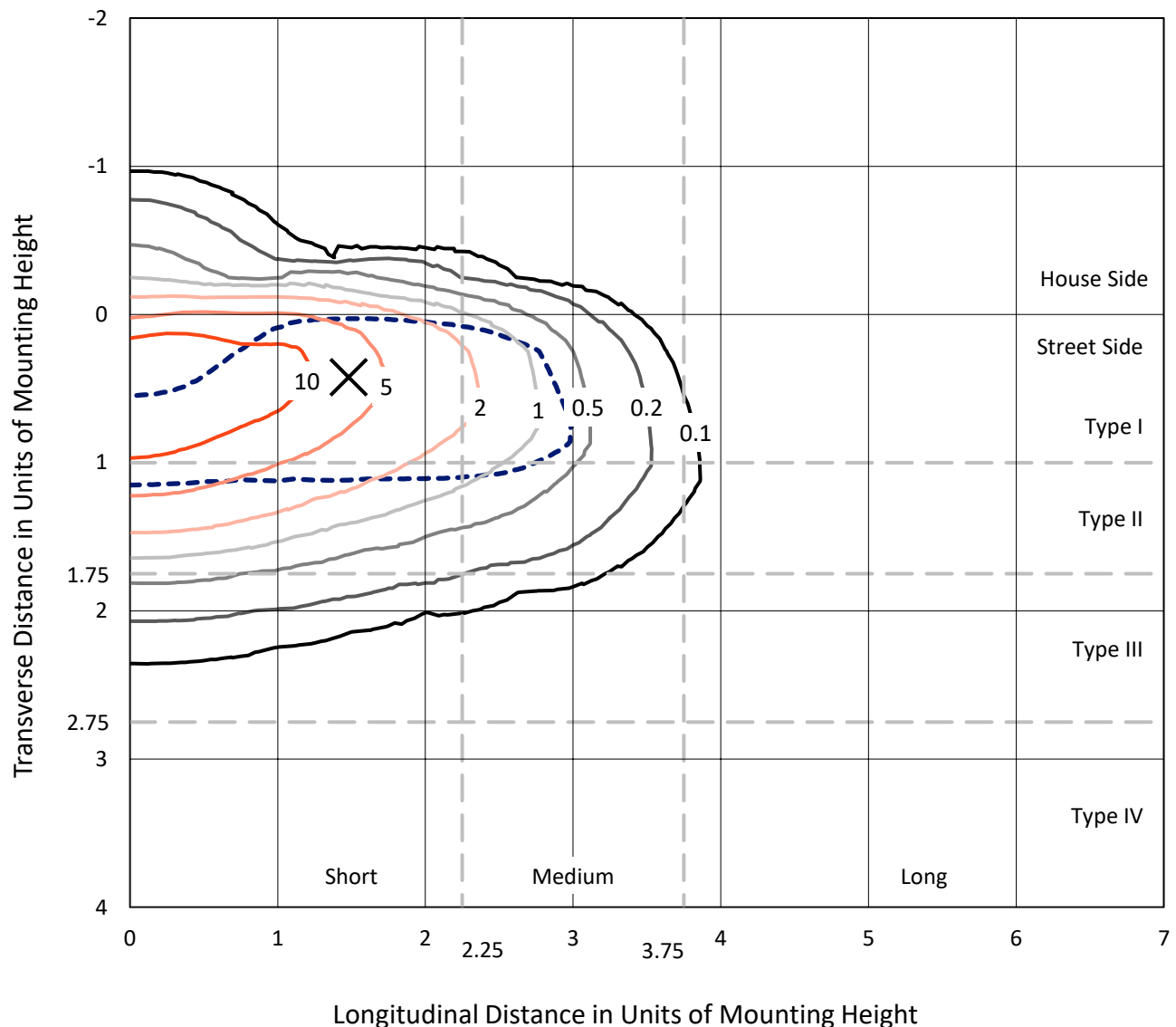


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

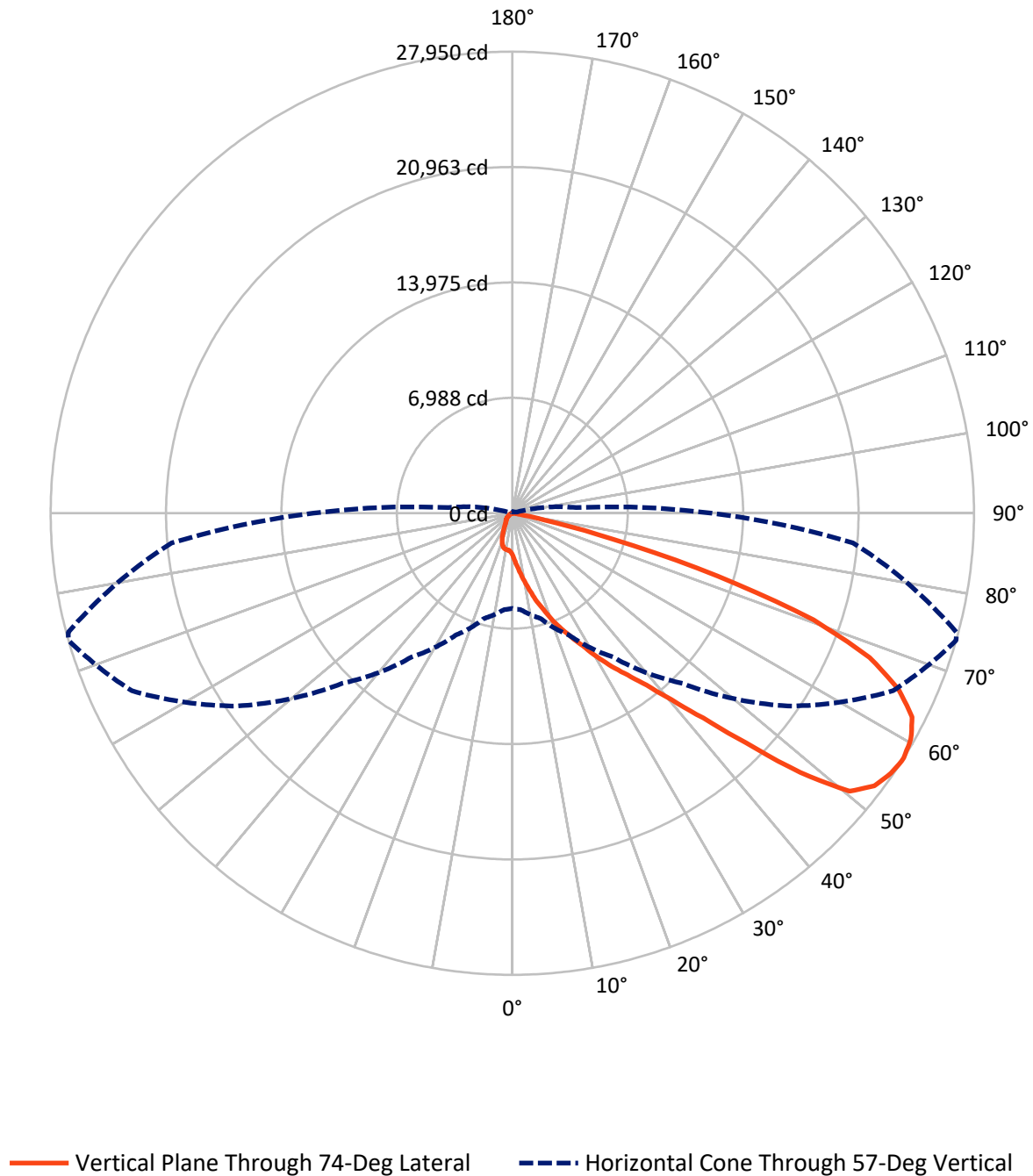


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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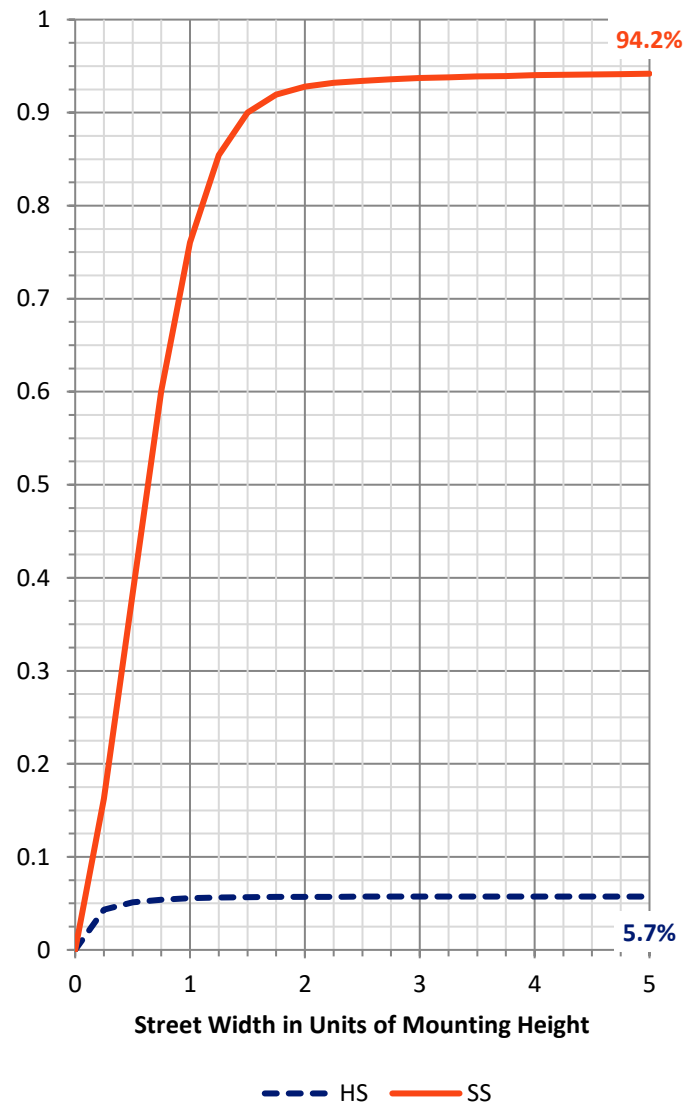
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1743.5   | 0.0    | 1743.5  |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 28485.5  | 0.0    | 28485.5 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 30229.0  | 0.0    | 30229.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 305.6   | 1.0       |
| 10°-20°   | 1204.5  | 4.0       |
| 20°-30°   | 2577.2  | 8.5       |
| 30°-40°   | 4736.9  | 15.7      |
| 40°-50°   | 7261.8  | 24.0      |
| 50°-60°   | 7682.0  | 25.4      |
| 60°-70°   | 5016.5  | 16.6      |
| 70°-80°   | 1370.7  | 4.5       |
| 80°-90°   | 73.8    | 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°    | 30229.0 | 100.0     |
| 0°-180°   | 30229.0 | 100.0     |

**Coefficient of Utilization**



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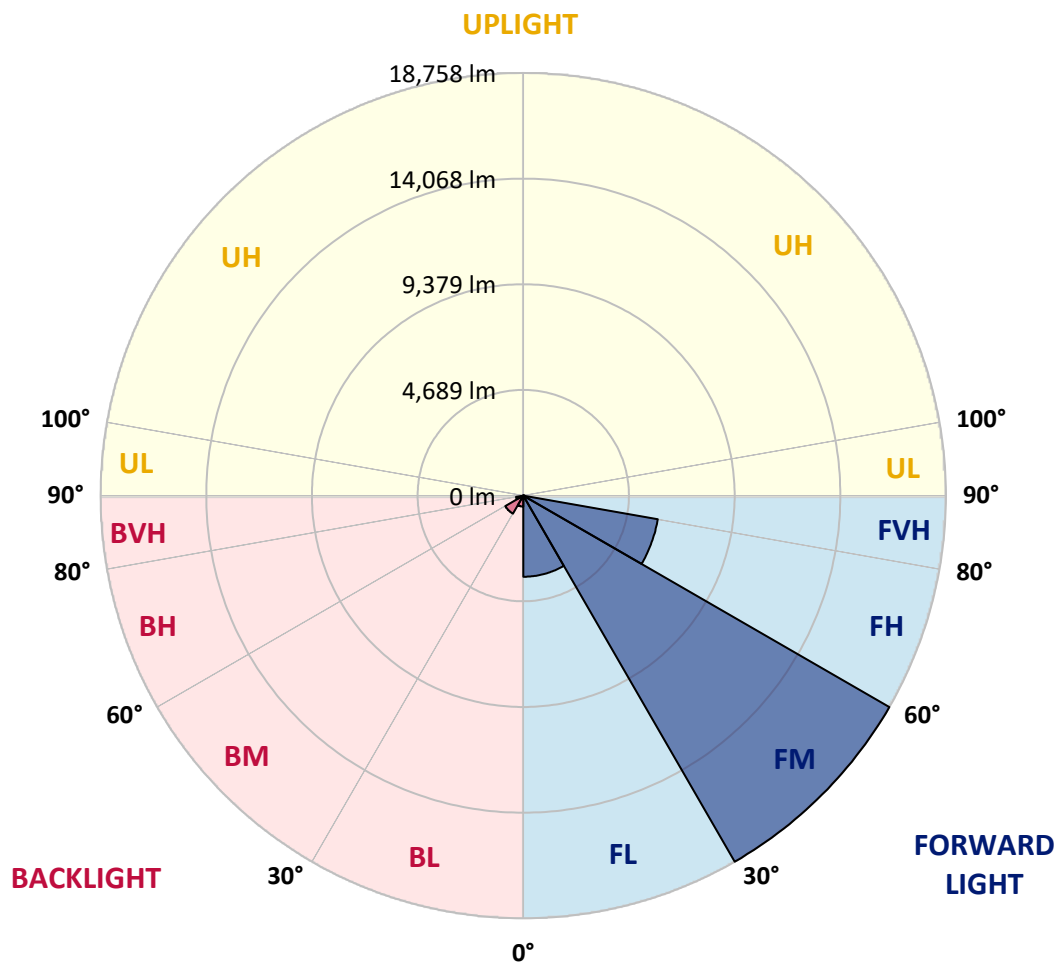
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3600.2  | 11.9      |                         |      |         |
| FM   | (30°-60°)   | 18757.6 | 62.1      |                         |      |         |
| FH   | (60°-80°)   | 6059.9  | 20.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 67.7    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 487.0   | 1.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 923.1   | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 327.3   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.1     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  | 2531.6  |
| 2.5°  | 3704.6  | 3671.2  | 3604.4  | 3581.4  | 3483.4  | 3331.0  | 3197.4  | 3017.9  | 2876.0  | 2861.4  | 2690.3  |
| 5°    | 4961.0  | 4885.9  | 4854.6  | 4704.3  | 4468.5  | 4247.2  | 3867.4  | 3579.4  | 3247.5  | 3222.5  | 2878.1  |
| 7.5°  | 6171.5  | 6067.2  | 6035.9  | 5893.9  | 5618.4  | 5269.9  | 4777.3  | 4253.5  | 3727.5  | 3679.5  | 3130.6  |
| 10°   | 7048.1  | 7062.7  | 7006.4  | 6912.4  | 6689.1  | 6334.3  | 5727.0  | 5011.1  | 4261.8  | 4201.3  | 3414.5  |
| 12.5° | 7676.3  | 7674.2  | 7684.7  | 7682.6  | 7563.6  | 7294.4  | 6655.7  | 5831.3  | 4850.4  | 4731.4  | 3740.1  |
| 15°   | 8085.4  | 8091.6  | 8123.0  | 8231.5  | 8244.0  | 8077.0  | 7544.8  | 6616.1  | 5532.9  | 5384.7  | 4092.8  |
| 17.5° | 8498.6  | 8542.5  | 8592.5  | 8694.8  | 8786.6  | 8719.9  | 8344.2  | 7434.2  | 6150.7  | 6040.0  | 4470.5  |
| 20°   | 9181.1  | 9241.6  | 9212.4  | 9275.0  | 9323.0  | 9329.3  | 9039.2  | 8189.7  | 6899.9  | 6714.2  | 4902.6  |
| 22.5° | 10272.7 | 10270.6 | 10195.4 | 10082.7 | 9988.8  | 9984.6  | 9721.7  | 8966.1  | 7580.3  | 7400.8  | 5336.7  |
| 25°   | 11652.2 | 11658.5 | 11512.4 | 11191.0 | 10957.2 | 10671.3 | 10368.7 | 9646.5  | 8308.7  | 8087.5  | 5793.8  |
| 27.5° | 13234.2 | 13194.6 | 12973.3 | 12530.9 | 12067.6 | 11579.2 | 11143.0 | 10437.5 | 9080.9  | 8897.3  | 6317.6  |
| 30°   | 14655.5 | 14640.9 | 14382.1 | 13841.6 | 13232.1 | 12741.7 | 12109.3 | 11428.9 | 10080.6 | 9855.2  | 6904.1  |
| 32.5° | 15978.8 | 15999.6 | 15640.6 | 15081.3 | 14492.7 | 13927.1 | 13259.3 | 12376.4 | 11061.6 | 10742.2 | 7542.7  |
| 35°   | 17011.9 | 17032.7 | 16661.2 | 16195.8 | 15590.6 | 15121.0 | 14484.4 | 13386.6 | 12030.0 | 11760.7 | 8277.4  |
| 37.5° | 17562.9 | 17590.0 | 17375.0 | 17024.4 | 16646.6 | 16410.8 | 15818.1 | 14686.8 | 13207.1 | 13044.3 | 9145.6  |
| 40°   | 17667.2 | 17698.5 | 17604.6 | 17510.7 | 17489.8 | 17658.9 | 17485.6 | 16218.8 | 14839.2 | 14584.6 | 10439.6 |
| 42.5° | 17354.1 | 17395.9 | 17437.6 | 17646.3 | 18072.1 | 18692.0 | 19295.1 | 18297.5 | 16940.9 | 16598.6 | 12021.6 |
| 45°   | 16531.8 | 16527.7 | 16692.5 | 17233.1 | 18186.9 | 19510.1 | 21186.0 | 20900.1 | 19804.4 | 19397.4 | 14256.9 |
| 47.5° | 15125.1 | 15104.3 | 15461.2 | 16231.3 | 17717.3 | 19660.4 | 22728.4 | 24060.0 | 23458.9 | 23083.2 | 16659.1 |
| 50°   | 12981.7 | 13084.0 | 13645.4 | 14720.2 | 16550.6 | 19205.4 | 23204.3 | 26132.4 | 26458.0 | 26059.4 | 18600.1 |
| 52.5° | 10470.9 | 10466.8 | 11347.5 | 12806.4 | 14822.5 | 18203.6 | 22872.4 | 26508.1 | 27432.7 | 27128.0 | 19556.0 |
| 55°   | 7749.4  | 7803.6  | 8719.9  | 10191.3 | 12578.9 | 16375.3 | 21789.2 | 26122.0 | 27804.2 | 27589.2 | 20186.3 |
| 57°   | 5764.5  | 5860.5  | 6595.2  | 8152.2  | 10625.4 | 14565.8 | 20347.0 | 25431.2 | 27950.3 | 27833.4 | 20710.2 |
| 57.5° | 5380.5  | 5384.7  | 6100.6  | 7515.6  | 10053.5 | 13870.8 | 19933.8 | 25143.2 | 27946.1 | 27881.4 | 20795.8 |
| 60°   | 3312.2  | 3416.6  | 3911.2  | 5080.0  | 7359.1  | 10825.7 | 17164.2 | 23488.1 | 27729.1 | 27823.0 | 21161.0 |
| 62.5° | 1982.7  | 2026.6  | 2348.0  | 3061.8  | 4744.0  | 7901.7  | 14046.1 | 21369.7 | 27163.5 | 27449.4 | 21136.0 |
| 65°   | 1275.2  | 1285.6  | 1431.7  | 1853.3  | 2965.8  | 5340.9  | 10823.6 | 18570.9 | 25700.4 | 26226.4 | 20309.5 |
| 67.5° | 985.1   | 1001.8  | 1060.2  | 1216.8  | 1719.8  | 3326.8  | 7655.4  | 15584.3 | 23333.7 | 24012.0 | 18305.9 |
| 70°   | 874.5   | 882.8   | 903.7   | 953.8   | 1137.5  | 1878.4  | 4762.7  | 12174.0 | 19349.4 | 19541.4 | 14325.8 |
| 72.5° | 713.8   | 736.7   | 801.4   | 818.1   | 901.6   | 1172.9  | 2650.6  | 8171.0  | 13000.5 | 13048.5 | 8014.4  |
| 75°   | 553.1   | 557.3   | 653.3   | 701.3   | 759.7   | 807.7   | 1183.4  | 4119.9  | 6244.6  | 5910.6  | 3088.9  |
| 77.5° | 413.2   | 432.0   | 475.9   | 536.4   | 619.9   | 578.1   | 530.1   | 1552.8  | 1938.9  | 1903.4  | 897.4   |
| 80°   | 265.1   | 275.5   | 331.8   | 402.8   | 482.1   | 377.8   | 298.5   | 455.0   | 425.8   | 438.3   | 215.0   |
| 82.5° | 133.6   | 135.7   | 212.9   | 327.7   | 306.8   | 189.9   | 187.8   | 185.8   | 158.6   | 156.5   | 100.2   |
| 85°   | 14.6    | 31.3    | 137.7   | 187.8   | 137.7   | 62.6    | 87.7    | 85.6    | 83.5    | 85.6    | 58.4    |
| 87.5° | 2.1     | 2.1     | 23.0    | 27.1    | 18.8    | 20.9    | 25.0    | 27.1    | 33.4    | 31.3    | 25.0    |
| 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°    | 2531.6  | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 | 2531.6 |
| 2.5°  | 2606.8  | 2523.3 | 2368.8 | 2220.7 | 2110.0 | 2039.1 | 1947.3 | 1913.9 | 1865.9 | 1859.6 | 1836.6 |
| 5°    | 2719.5  | 2560.9 | 2291.6 | 2078.7 | 1907.6 | 1778.2 | 1665.5 | 1571.6 | 1496.4 | 1479.7 | 1488.1 |
| 7.5°  | 2880.2  | 2644.3 | 2268.7 | 1978.6 | 1740.6 | 1519.4 | 1339.9 | 1229.3 | 1150.0 | 1120.8 | 1124.9 |
| 10°   | 3061.8  | 2755.0 | 2264.5 | 1872.1 | 1509.0 | 1237.6 | 1041.5 | 943.4  | 897.4  | 880.8  | 862.0  |
| 12.5° | 3276.7  | 2882.3 | 2254.1 | 1707.2 | 1254.3 | 987.2  | 847.4  | 788.9  | 745.1  | 732.6  | 732.6  |
| 15°   | 3518.8  | 3017.9 | 2204.0 | 1502.7 | 1018.5 | 816.1  | 722.1  | 676.2  | 661.6  | 649.1  | 649.1  |
| 17.5° | 3771.4  | 3151.5 | 2099.6 | 1250.2 | 845.3  | 699.2  | 640.7  | 613.6  | 592.7  | 578.1  | 578.1  |
| 20°   | 4059.4  | 3283.0 | 1932.6 | 1026.8 | 713.8  | 624.0  | 578.1  | 546.8  | 530.1  | 517.6  | 513.4  |
| 22.5° | 4332.8  | 3389.4 | 1719.8 | 843.2  | 622.0  | 561.4  | 519.7  | 486.3  | 469.6  | 463.3  | 463.3  |
| 25°   | 4616.6  | 3454.1 | 1463.0 | 697.1  | 567.7  | 509.2  | 463.3  | 436.2  | 421.6  | 417.4  | 415.3  |
| 27.5° | 4892.1  | 3491.7 | 1237.6 | 609.4  | 517.6  | 461.2  | 417.4  | 396.5  | 381.9  | 377.8  | 379.9  |
| 30°   | 5226.1  | 3498.0 | 1018.5 | 546.8  | 473.8  | 415.3  | 375.7  | 356.9  | 348.5  | 344.4  | 342.3  |
| 32.5° | 5564.2  | 3489.6 | 855.7  | 509.2  | 432.0  | 375.7  | 342.3  | 327.7  | 321.4  | 315.2  | 315.2  |
| 35°   | 5944.0  | 3445.8 | 728.4  | 471.7  | 392.4  | 342.3  | 313.1  | 300.5  | 292.2  | 285.9  | 283.8  |
| 37.5° | 6415.7  | 3422.8 | 655.3  | 429.9  | 356.9  | 311.0  | 283.8  | 271.3  | 265.1  | 256.7  | 254.6  |
| 40°   | 7158.7  | 3525.1 | 632.4  | 392.4  | 321.4  | 281.8  | 256.7  | 242.1  | 233.8  | 225.4  | 223.3  |
| 42.5° | 8085.4  | 3704.6 | 594.8  | 354.8  | 290.1  | 254.6  | 229.6  | 212.9  | 198.3  | 187.8  | 183.7  |
| 45°   | 9285.5  | 3940.4 | 536.4  | 315.2  | 263.0  | 225.4  | 202.4  | 181.6  | 162.8  | 154.4  | 152.4  |
| 47.5° | 10544.0 | 4167.9 | 484.2  | 283.8  | 233.8  | 200.4  | 175.3  | 152.4  | 135.7  | 129.4  | 127.3  |
| 50°   | 11316.2 | 4213.8 | 450.8  | 248.4  | 204.5  | 173.2  | 148.2  | 127.3  | 116.9  | 110.6  | 110.6  |
| 52.5° | 11668.9 | 4140.8 | 404.9  | 217.1  | 177.4  | 152.4  | 127.3  | 110.6  | 104.4  | 100.2  | 98.1   |
| 55°   | 11915.2 | 4028.1 | 344.4  | 187.8  | 152.4  | 129.4  | 112.7  | 100.2  | 91.8   | 87.7   | 85.6   |
| 57°   | 12059.2 | 3875.7 | 298.5  | 164.9  | 131.5  | 112.7  | 100.2  | 89.7   | 81.4   | 73.0   | 73.0   |
| 57.5° | 12065.5 | 3817.3 | 285.9  | 162.8  | 125.2  | 108.5  | 98.1   | 87.7   | 77.2   | 68.9   | 66.8   |
| 60°   | 11879.7 | 3416.6 | 229.6  | 137.7  | 100.2  | 91.8   | 81.4   | 68.9   | 54.3   | 45.9   | 43.8   |
| 62.5° | 11282.8 | 2907.3 | 189.9  | 116.9  | 81.4   | 71.0   | 58.4   | 52.2   | 37.6   | 27.1   | 27.1   |
| 65°   | 10379.1 | 2358.4 | 162.8  | 93.9   | 66.8   | 52.2   | 39.7   | 37.6   | 23.0   | 12.5   | 10.4   |
| 67.5° | 9072.6  | 1836.6 | 137.7  | 77.2   | 56.4   | 37.6   | 27.1   | 25.0   | 12.5   | 4.2    | 0.0    |
| 70°   | 6912.4  | 1252.3 | 114.8  | 62.6   | 41.7   | 27.1   | 18.8   | 14.6   | 8.3    | 2.1    | 0.0    |
| 72.5° | 3984.3  | 688.7  | 96.0   | 48.0   | 31.3   | 20.9   | 14.6   | 8.3    | 8.3    | 0.0    | 0.0    |
| 75°   | 1423.4  | 296.4  | 73.0   | 35.5   | 25.0   | 16.7   | 10.4   | 4.2    | 6.3    | 2.1    | 0.0    |
| 77.5° | 452.9   | 158.6  | 48.0   | 27.1   | 20.9   | 12.5   | 8.3    | 4.2    | 4.2    | 2.1    | 0.0    |
| 80°   | 133.6   | 83.5   | 29.2   | 23.0   | 14.6   | 10.4   | 6.3    | 2.1    | 4.2    | 2.1    | 0.0    |
| 82.5° | 73.0    | 41.7   | 23.0   | 16.7   | 14.6   | 8.3    | 6.3    | 2.1    | 2.1    | 2.1    | 0.0    |
| 85°   | 37.6    | 25.0   | 18.8   | 16.7   | 14.6   | 8.3    | 6.3    | 2.1    | 0.0    | 2.1    | 2.1    |
| 87.5° | 20.9    | 18.8   | 18.8   | 16.7   | 14.6   | 10.4   | 6.3    | 2.1    | 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)