

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: P455835

Luminaire Tested: **GLAN-SA7A-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455835  
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-SA7A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 25502 lumens  
Efficiency: N/A  
Efficacy: 118.6 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): 215  
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

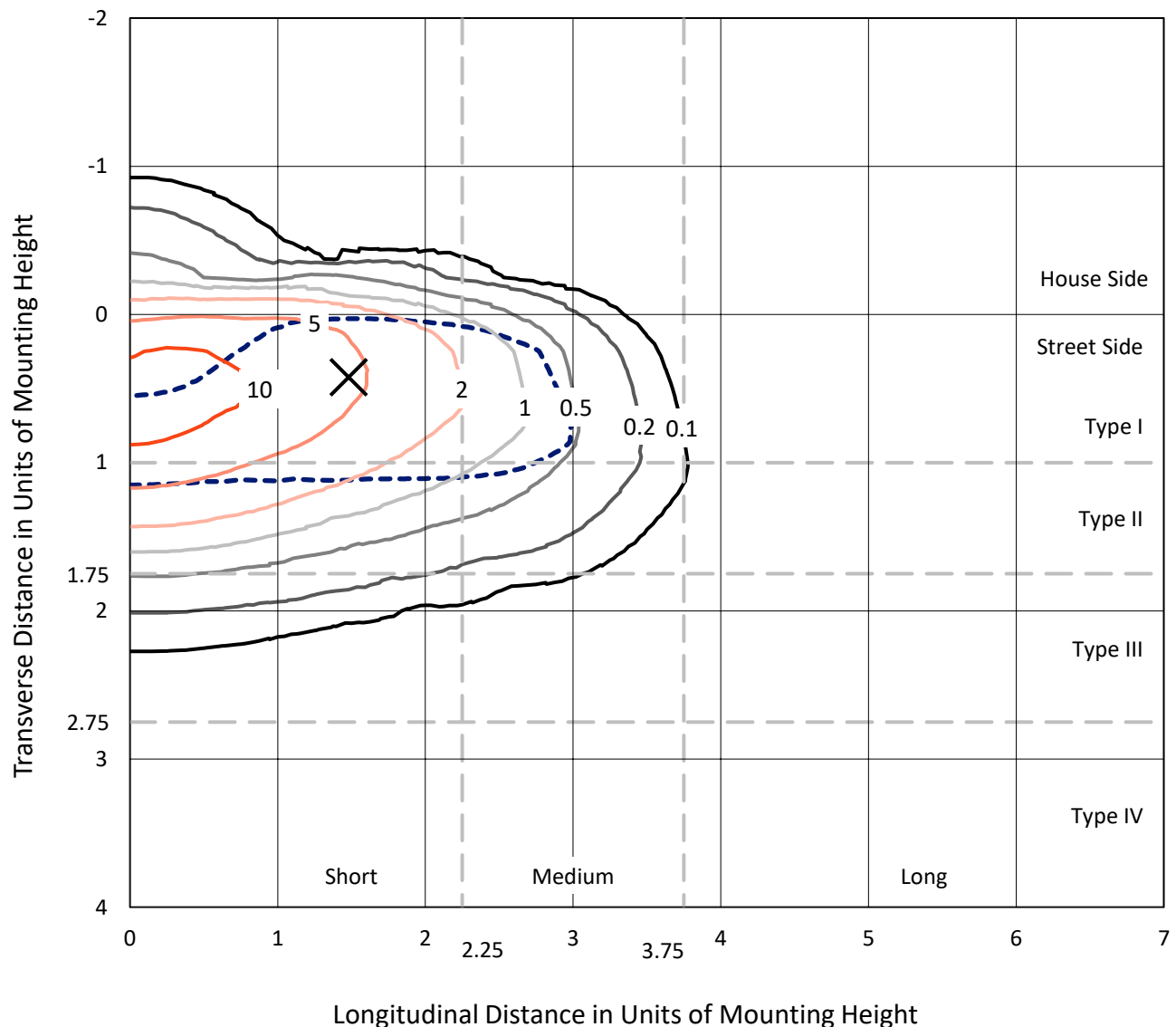


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

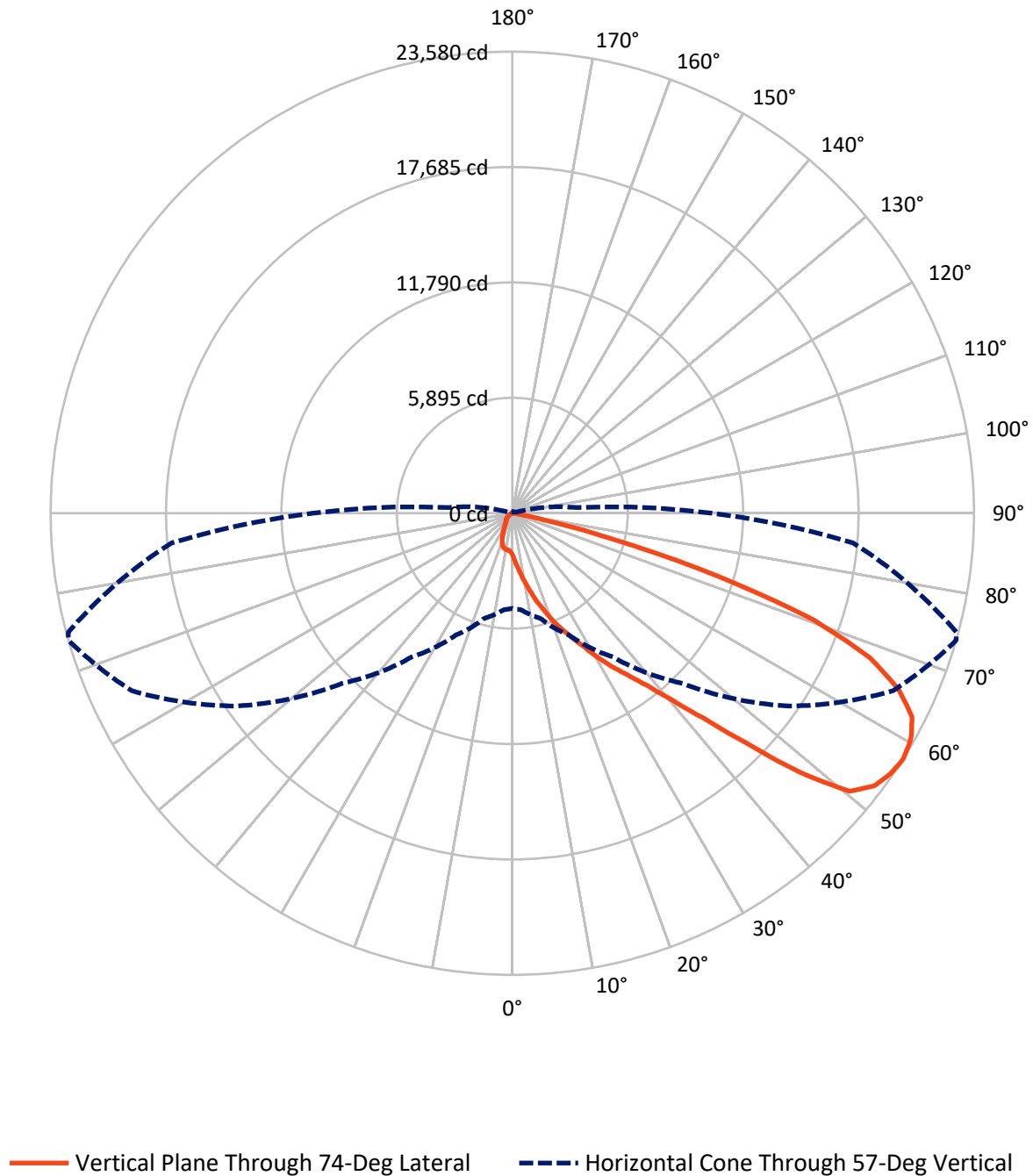


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1470.9   | 0.0    | 1470.9  |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 24031.1  | 0.0    | 24031.1 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 25502.0  | 0.0    | 25502.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 257.8   | 1.0       |
| 10°-20°   | 1016.1  | 4.0       |
| 20°-30°   | 2174.2  | 8.5       |
| 30°-40°   | 3996.2  | 15.7      |
| 40°-50°   | 6126.2  | 24.0      |
| 50°-60°   | 6480.7  | 25.4      |
| 60°-70°   | 4232.1  | 16.6      |
| 70°-80°   | 1156.4  | 4.5       |
| 80°-90°   | 62.3    | 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°    | 25502.0 | 100.0     |
| 0°-180°   | 25502.0 | 100.0     |

**Coefficient of Utilization**



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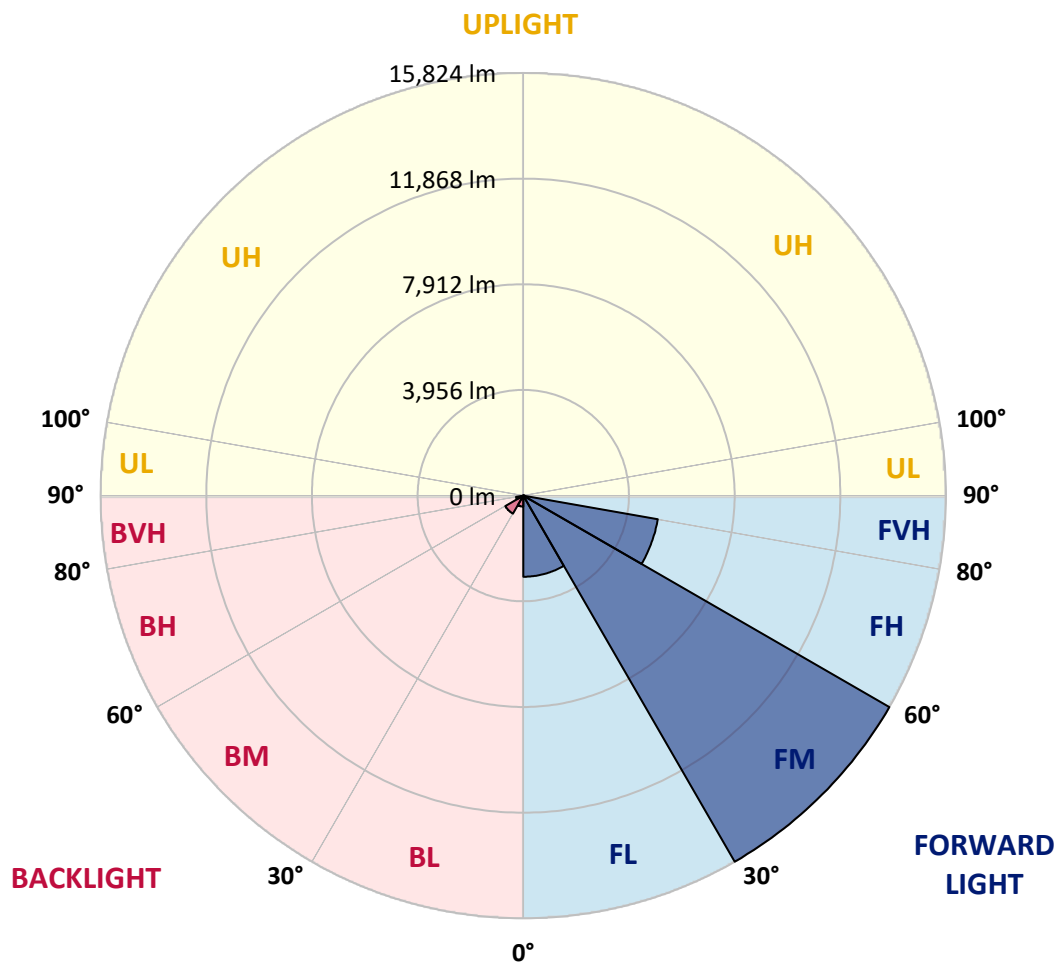
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3037.3  | 11.9      |                         |      |         |
| FM   | (30°-60°)   | 15824.5 | 62.1      |                         |      |         |
| FH   | (60°-80°)   | 5112.3  | 20.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 57.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 410.9   | 1.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 778.7   | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 276.1   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.1     | 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°    | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  | 2135.8  |
| 2.5°  | 3125.3  | 3097.1  | 3040.8  | 3021.4  | 2938.6  | 2810.1  | 2697.4  | 2546.0  | 2426.3  | 2414.0  | 2269.6  |
| 5°    | 4185.2  | 4121.9  | 4095.4  | 3968.7  | 3769.7  | 3583.1  | 3262.6  | 3019.6  | 2739.7  | 2718.6  | 2428.0  |
| 7.5°  | 5206.5  | 5118.4  | 5092.0  | 4972.3  | 4739.9  | 4445.8  | 4030.3  | 3588.4  | 3144.7  | 3104.2  | 2641.1  |
| 10°   | 5946.0  | 5958.3  | 5910.8  | 5831.5  | 5643.1  | 5343.8  | 4831.4  | 4227.5  | 3595.4  | 3544.3  | 2880.5  |
| 12.5° | 6475.9  | 6474.2  | 6483.0  | 6481.2  | 6380.9  | 6153.7  | 5615.0  | 4919.5  | 4091.9  | 3991.6  | 3155.2  |
| 15°   | 6821.0  | 6826.3  | 6852.7  | 6944.3  | 6954.9  | 6814.0  | 6365.0  | 5581.5  | 4667.7  | 4542.7  | 3452.8  |
| 17.5° | 7169.7  | 7206.6  | 7248.9  | 7335.2  | 7412.7  | 7356.3  | 7039.4  | 6271.7  | 5188.9  | 5095.5  | 3771.5  |
| 20°   | 7745.4  | 7796.5  | 7771.8  | 7824.7  | 7865.2  | 7870.4  | 7625.7  | 6909.1  | 5821.0  | 5664.3  | 4135.9  |
| 22.5° | 8666.3  | 8664.5  | 8601.1  | 8506.1  | 8426.8  | 8423.3  | 8201.5  | 7564.1  | 6395.0  | 6243.5  | 4502.2  |
| 25°   | 9830.1  | 9835.4  | 9712.2  | 9441.0  | 9243.8  | 9002.6  | 8747.3  | 8138.1  | 7009.4  | 6822.8  | 4887.8  |
| 27.5° | 11164.8 | 11131.3 | 10944.7 | 10571.4 | 10180.5 | 9768.5  | 9400.5  | 8805.4  | 7660.9  | 7506.0  | 5329.7  |
| 30°   | 12363.8 | 12351.5 | 12133.2 | 11677.1 | 11163.0 | 10749.2 | 10215.7 | 9641.7  | 8504.3  | 8314.1  | 5824.5  |
| 32.5° | 13480.1 | 13497.7 | 13194.9 | 12723.0 | 12226.5 | 11749.3 | 11185.9 | 10441.1 | 9331.8  | 9062.5  | 6363.3  |
| 35°   | 14351.7 | 14369.3 | 14055.9 | 13663.2 | 13152.6 | 12756.5 | 12219.4 | 11293.3 | 10148.8 | 9921.7  | 6983.0  |
| 37.5° | 14816.5 | 14839.4 | 14658.0 | 14362.2 | 14043.5 | 13844.6 | 13344.5 | 12390.2 | 11141.9 | 11004.5 | 7715.5  |
| 40°   | 14904.5 | 14930.9 | 14851.7 | 14772.5 | 14754.9 | 14897.5 | 14751.4 | 13682.6 | 12518.8 | 12303.9 | 8807.1  |
| 42.5° | 14640.4 | 14675.6 | 14710.9 | 14886.9 | 15246.1 | 15769.1 | 16277.9 | 15436.3 | 14291.8 | 14003.0 | 10141.8 |
| 45°   | 13946.7 | 13943.2 | 14082.3 | 14538.3 | 15343.0 | 16459.3 | 17873.1 | 17631.9 | 16707.5 | 16364.2 | 12027.5 |
| 47.5° | 12760.0 | 12742.4 | 13043.4 | 13693.2 | 14946.8 | 16586.0 | 19174.3 | 20297.6 | 19790.5 | 19473.6 | 14054.1 |
| 50°   | 10951.7 | 11038.0 | 11511.6 | 12418.4 | 13962.5 | 16202.2 | 19575.7 | 22046.0 | 22320.7 | 21984.4 | 15691.6 |
| 52.5° | 8833.6  | 8830.0  | 9573.1  | 10803.8 | 12504.7 | 15357.0 | 19295.8 | 22363.0 | 23143.0 | 22885.9 | 16498.0 |
| 55°   | 6537.6  | 6583.4  | 7356.3  | 8597.6  | 10611.9 | 13814.6 | 18382.0 | 22037.2 | 23456.4 | 23275.0 | 17029.7 |
| 57°   | 4863.1  | 4944.1  | 5563.9  | 6877.4  | 8963.9  | 12288.1 | 17165.3 | 21454.4 | 23579.6 | 23481.0 | 17471.7 |
| 57.5° | 4539.1  | 4542.7  | 5146.6  | 6340.4  | 8481.4  | 11701.8 | 16816.7 | 21211.5 | 23576.1 | 23521.5 | 17543.9 |
| 60°   | 2794.3  | 2882.3  | 3299.6  | 4285.6  | 6208.3  | 9132.9  | 14480.2 | 19815.2 | 23393.0 | 23472.2 | 17852.0 |
| 62.5° | 1672.7  | 1709.7  | 1980.8  | 2583.0  | 4002.1  | 6666.1  | 11849.7 | 18028.1 | 22915.8 | 23157.1 | 17830.9 |
| 65°   | 1075.8  | 1084.6  | 1207.9  | 1563.5  | 2502.0  | 4505.7  | 9131.1  | 15666.9 | 21681.6 | 22125.3 | 17133.6 |
| 67.5° | 831.1   | 845.1   | 894.4   | 1026.5  | 1450.8  | 2806.6  | 6458.3  | 13147.3 | 19684.9 | 20257.1 | 15443.3 |
| 70°   | 737.7   | 744.8   | 762.4   | 804.7   | 959.6   | 1584.7  | 4018.0  | 10270.3 | 16323.7 | 16485.7 | 12085.6 |
| 72.5° | 602.2   | 621.5   | 676.1   | 690.2   | 760.6   | 989.5   | 2236.1  | 6893.2  | 10967.6 | 11008.1 | 6761.2  |
| 75°   | 466.6   | 470.1   | 551.1   | 591.6   | 640.9   | 681.4   | 998.3   | 3475.7  | 5268.1  | 4986.4  | 2605.9  |
| 77.5° | 348.6   | 364.5   | 401.4   | 452.5   | 522.9   | 487.7   | 447.2   | 1310.0  | 1635.7  | 1605.8  | 757.1   |
| 80°   | 223.6   | 232.4   | 280.0   | 339.8   | 406.7   | 318.7   | 251.8   | 383.8   | 359.2   | 369.8   | 181.4   |
| 82.5° | 112.7   | 114.4   | 179.6   | 276.4   | 258.8   | 160.2   | 158.5   | 156.7   | 133.8   | 132.1   | 84.5    |
| 85°   | 12.3    | 26.4    | 116.2   | 158.5   | 116.2   | 52.8    | 74.0    | 72.2    | 70.4    | 72.2    | 49.3    |
| 87.5° | 1.8     | 1.8     | 19.4    | 22.9    | 15.8    | 17.6    | 21.1    | 22.9    | 28.2    | 26.4    | 21.1    |
| 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°    | 2135.8  | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 | 2135.8 |
| 2.5°  | 2199.1  | 2128.7 | 1998.4 | 1873.4 | 1780.1 | 1720.2 | 1642.8 | 1614.6 | 1574.1 | 1568.8 | 1549.4 |
| 5°    | 2294.2  | 2160.4 | 1933.3 | 1753.7 | 1609.3 | 1500.1 | 1405.1 | 1325.8 | 1262.4 | 1248.4 | 1255.4 |
| 7.5°  | 2429.8  | 2230.8 | 1913.9 | 1669.2 | 1468.4 | 1281.8 | 1130.4 | 1037.1 | 970.2  | 945.5  | 949.0  |
| 10°   | 2583.0  | 2324.2 | 1910.4 | 1579.4 | 1273.0 | 1044.1 | 878.6  | 795.8  | 757.1  | 743.0  | 727.2  |
| 12.5° | 2764.3  | 2431.6 | 1901.6 | 1440.3 | 1058.2 | 832.8  | 714.9  | 665.6  | 628.6  | 618.0  | 618.0  |
| 15°   | 2968.6  | 2546.0 | 1859.3 | 1267.7 | 859.2  | 688.4  | 609.2  | 570.5  | 558.1  | 547.6  | 547.6  |
| 17.5° | 3181.6  | 2658.7 | 1771.3 | 1054.7 | 713.1  | 589.8  | 540.5  | 517.7  | 500.0  | 487.7  | 487.7  |
| 20°   | 3424.6  | 2769.6 | 1630.4 | 866.3  | 602.2  | 526.5  | 487.7  | 461.3  | 447.2  | 436.7  | 433.1  |
| 22.5° | 3655.3  | 2859.4 | 1450.8 | 711.3  | 524.7  | 473.6  | 438.4  | 410.2  | 396.2  | 390.9  | 390.9  |
| 25°   | 3894.7  | 2914.0 | 1234.3 | 588.1  | 478.9  | 429.6  | 390.9  | 368.0  | 355.7  | 352.1  | 350.4  |
| 27.5° | 4127.1  | 2945.7 | 1044.1 | 514.1  | 436.7  | 389.1  | 352.1  | 334.5  | 322.2  | 318.7  | 320.5  |
| 30°   | 4408.9  | 2951.0 | 859.2  | 461.3  | 399.7  | 350.4  | 316.9  | 301.1  | 294.0  | 290.5  | 288.8  |
| 32.5° | 4694.1  | 2943.9 | 721.9  | 429.6  | 364.5  | 316.9  | 288.8  | 276.4  | 271.2  | 265.9  | 265.9  |
| 35°   | 5014.5  | 2907.0 | 614.5  | 397.9  | 331.0  | 288.8  | 264.1  | 253.5  | 246.5  | 241.2  | 239.5  |
| 37.5° | 5412.5  | 2887.6 | 552.9  | 362.7  | 301.1  | 262.3  | 239.5  | 228.9  | 223.6  | 216.6  | 214.8  |
| 40°   | 6039.3  | 2973.9 | 533.5  | 331.0  | 271.2  | 237.7  | 216.6  | 204.2  | 197.2  | 190.2  | 188.4  |
| 42.5° | 6821.0  | 3125.3 | 501.8  | 299.3  | 244.7  | 214.8  | 193.7  | 179.6  | 167.3  | 158.5  | 154.9  |
| 45°   | 7833.5  | 3324.2 | 452.5  | 265.9  | 221.9  | 190.2  | 170.8  | 153.2  | 137.3  | 130.3  | 128.5  |
| 47.5° | 8895.2  | 3516.2 | 408.5  | 239.5  | 197.2  | 169.0  | 147.9  | 128.5  | 114.4  | 109.2  | 107.4  |
| 50°   | 9546.7  | 3554.9 | 380.3  | 209.5  | 172.6  | 146.1  | 125.0  | 107.4  | 98.6   | 93.3   | 93.3   |
| 52.5° | 9844.2  | 3493.3 | 341.6  | 183.1  | 149.7  | 128.5  | 107.4  | 93.3   | 88.0   | 84.5   | 82.8   |
| 55°   | 10052.0 | 3398.2 | 290.5  | 158.5  | 128.5  | 109.2  | 95.1   | 84.5   | 77.5   | 74.0   | 72.2   |
| 57°   | 10173.5 | 3269.7 | 251.8  | 139.1  | 110.9  | 95.1   | 84.5   | 75.7   | 68.7   | 61.6   | 61.6   |
| 57.5° | 10178.8 | 3220.4 | 241.2  | 137.3  | 105.6  | 91.6   | 82.8   | 74.0   | 65.1   | 58.1   | 56.3   |
| 60°   | 10022.0 | 2882.3 | 193.7  | 116.2  | 84.5   | 77.5   | 68.7   | 58.1   | 45.8   | 38.7   | 37.0   |
| 62.5° | 9518.5  | 2452.7 | 160.2  | 98.6   | 68.7   | 59.9   | 49.3   | 44.0   | 31.7   | 22.9   | 22.9   |
| 65°   | 8756.1  | 1989.6 | 137.3  | 79.2   | 56.3   | 44.0   | 33.5   | 31.7   | 19.4   | 10.6   | 8.8    |
| 67.5° | 7653.9  | 1549.4 | 116.2  | 65.1   | 47.5   | 31.7   | 22.9   | 21.1   | 10.6   | 3.5    | 0.0    |
| 70°   | 5831.5  | 1056.4 | 96.8   | 52.8   | 35.2   | 22.9   | 15.8   | 12.3   | 7.0    | 1.8    | 0.0    |
| 72.5° | 3361.2  | 581.0  | 81.0   | 40.5   | 26.4   | 17.6   | 12.3   | 7.0    | 7.0    | 0.0    | 0.0    |
| 75°   | 1200.8  | 250.0  | 61.6   | 29.9   | 21.1   | 14.1   | 8.8    | 3.5    | 5.3    | 1.8    | 0.0    |
| 77.5° | 382.1   | 133.8  | 40.5   | 22.9   | 17.6   | 10.6   | 7.0    | 3.5    | 3.5    | 1.8    | 0.0    |
| 80°   | 112.7   | 70.4   | 24.7   | 19.4   | 12.3   | 8.8    | 5.3    | 1.8    | 3.5    | 1.8    | 0.0    |
| 82.5° | 61.6    | 35.2   | 19.4   | 14.1   | 12.3   | 7.0    | 5.3    | 1.8    | 1.8    | 1.8    | 0.0    |
| 85°   | 31.7    | 21.1   | 15.8   | 14.1   | 12.3   | 7.0    | 5.3    | 1.8    | 0.0    | 1.8    | 1.8    |
| 87.5° | 17.6    | 15.8   | 15.8   | 14.1   | 12.3   | 8.8    | 5.3    | 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)