

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: P455775

Luminaire Tested: **GLAN-SA7A-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19914 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

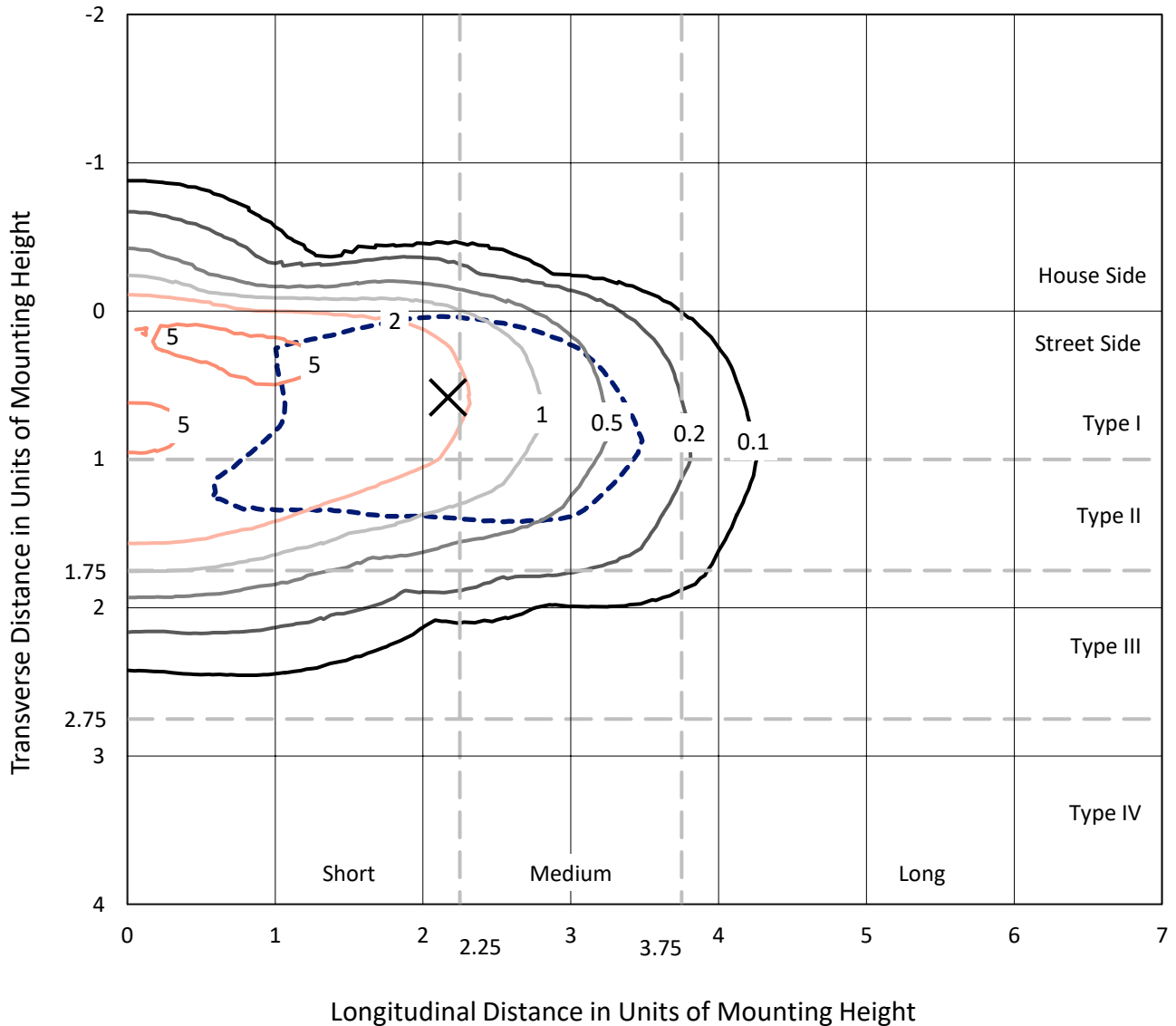
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

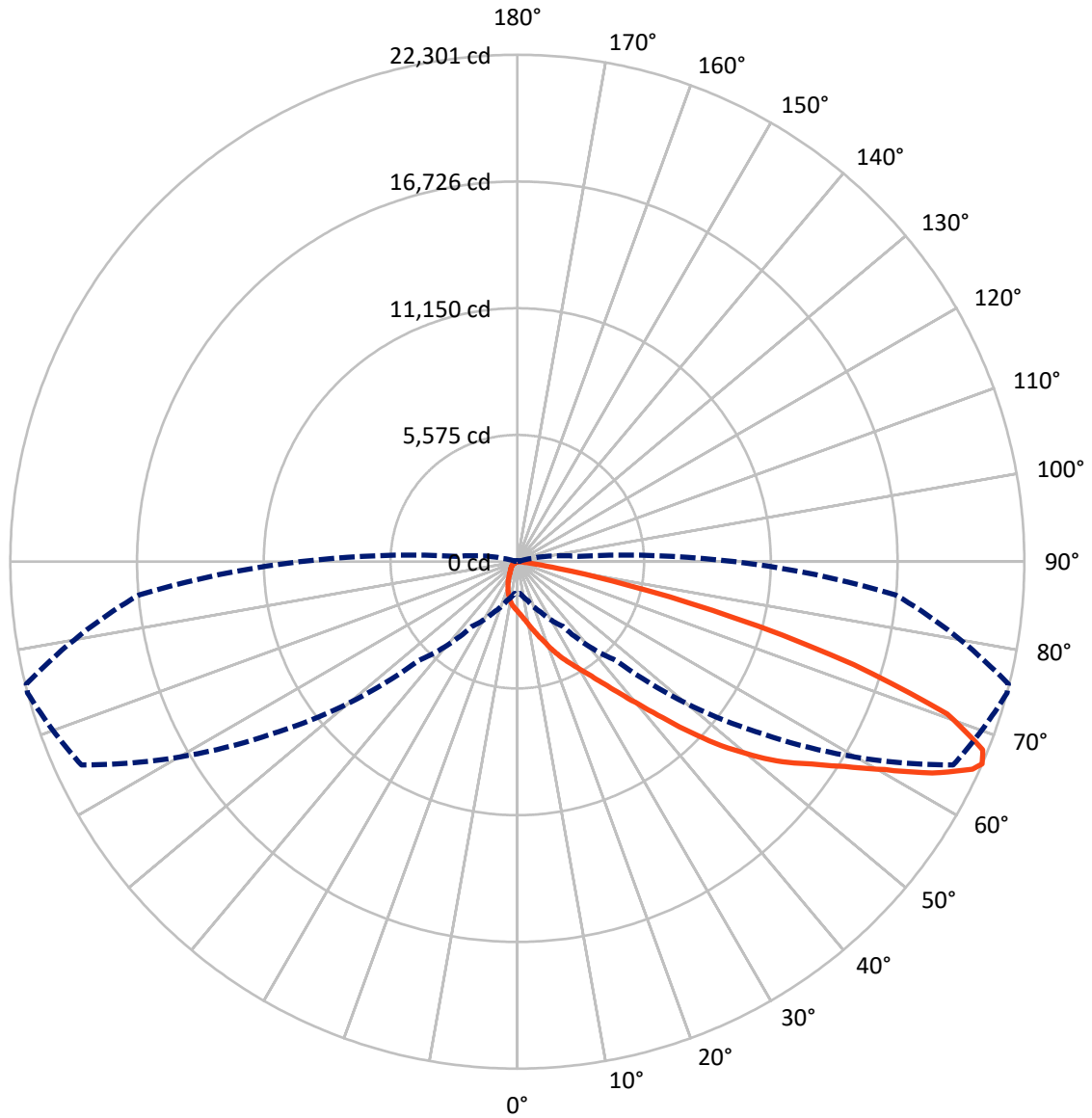
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1229.4   | 0.0    | 1229.4  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 18684.6  | 0.0    | 18684.6 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 19914.0  | 0.0    | 19914.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 210.1   | 1.1       |
| 10°-20°   | 618.2   | 3.1       |
| 20°-30°   | 1067.5  | 5.4       |
| 30°-40°   | 1925.5  | 9.7       |
| 40°-50°   | 3478.5  | 17.5      |
| 50°-60°   | 5423.0  | 27.2      |
| 60°-70°   | 5151.6  | 25.9      |
| 70°-80°   | 1930.7  | 9.7       |
| 80°-90°   | 108.9   | 0.5       |
| 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°    | 19914.0 | 100.0     |
| 0°-180°   | 19914.0 | 100.0     |



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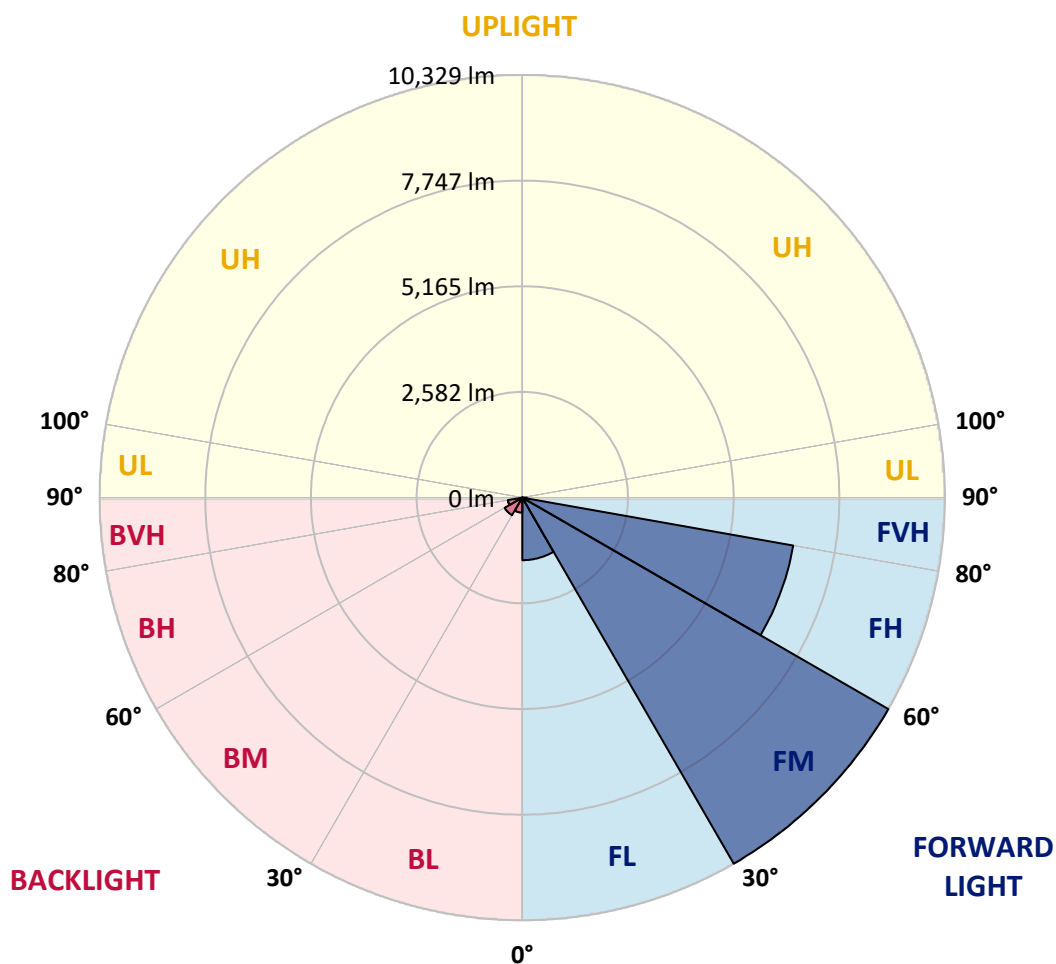
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1528.6  | 7.7       |                         |      |         |
| FM (30°-60°)   | 10329.4 | 51.9      |                         |      |         |
| FH (60°-80°)   | 6723.3  | 33.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 103.3   | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 367.2   | 1.8       | B1/500                  |      |         |
| BM (30°-60°)   | 497.6   | 2.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 359.0   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.6     | 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°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  | 2177.8  |
| 2.5°  | 2601.9  | 2569.5  | 2579.8  | 2565.1  | 2531.2  | 2481.1  | 2436.9  | 2373.6  | 2310.3  | 2300.0  | 2229.3  |
| 5°    | 2945.0  | 2936.1  | 2924.3  | 2881.6  | 2858.1  | 2781.5  | 2690.2  | 2581.3  | 2450.2  | 2426.6  | 2298.5  |
| 7.5°  | 3179.1  | 3174.7  | 3180.5  | 3158.5  | 3137.8  | 3068.6  | 2971.5  | 2822.7  | 2619.5  | 2606.3  | 2392.8  |
| 10°   | 3255.6  | 3267.4  | 3289.5  | 3324.9  | 3357.2  | 3335.2  | 3261.5  | 3076.0  | 2838.9  | 2800.7  | 2500.3  |
| 12.5° | 3211.5  | 3224.7  | 3277.7  | 3372.0  | 3476.5  | 3536.9  | 3507.4  | 3372.0  | 3071.6  | 3040.7  | 2621.0  |
| 15°   | 3098.1  | 3114.3  | 3189.4  | 3335.2  | 3522.2  | 3693.0  | 3766.6  | 3669.4  | 3342.5  | 3292.5  | 2766.8  |
| 17.5° | 2930.2  | 2953.8  | 3061.3  | 3254.2  | 3510.4  | 3804.9  | 4012.5  | 3980.1  | 3631.1  | 3584.0  | 2925.8  |
| 20°   | 2803.6  | 2821.3  | 2912.6  | 3133.4  | 3460.3  | 3866.7  | 4246.6  | 4337.9  | 3987.5  | 3906.5  | 3112.8  |
| 22.5° | 2887.5  | 2893.4  | 2924.3  | 3056.9  | 3370.5  | 3882.9  | 4452.8  | 4710.5  | 4365.9  | 4293.7  | 3307.2  |
| 25°   | 3298.3  | 3239.4  | 3208.5  | 3179.1  | 3351.4  | 3868.2  | 4639.8  | 5099.2  | 4742.8  | 4666.3  | 3500.1  |
| 27.5° | 3946.2  | 3919.7  | 3763.6  | 3554.6  | 3514.8  | 3887.3  | 4763.5  | 5467.3  | 5097.7  | 5015.3  | 3688.6  |
| 30°   | 4651.6  | 4605.9  | 4510.2  | 4203.9  | 3896.2  | 4022.8  | 4853.3  | 5825.1  | 5517.4  | 5408.4  | 3860.8  |
| 32.5° | 5299.4  | 5328.9  | 5186.1  | 4871.0  | 4514.6  | 4311.4  | 4969.6  | 6215.3  | 5998.9  | 5863.4  | 4061.1  |
| 35°   | 6054.8  | 6113.7  | 5894.3  | 5592.5  | 5175.8  | 4832.7  | 5196.4  | 6655.6  | 6609.9  | 6439.1  | 4370.3  |
| 37.5° | 6822.0  | 6857.3  | 6723.3  | 6299.3  | 5923.8  | 5495.3  | 5623.4  | 7198.9  | 7362.4  | 7216.6  | 4739.9  |
| 40°   | 7466.9  | 7515.5  | 7416.9  | 7039.9  | 6639.4  | 6262.4  | 6243.3  | 7790.9  | 8257.6  | 8107.5  | 5290.6  |
| 42.5° | 7960.2  | 7997.0  | 8000.0  | 7733.4  | 7372.7  | 7201.9  | 7034.0  | 8546.3  | 9379.7  | 9205.9  | 5929.7  |
| 45°   | 8583.1  | 8636.1  | 8605.2  | 8424.0  | 8154.6  | 8123.7  | 8036.8  | 9459.2  | 10722.6 | 10503.2 | 6758.7  |
| 47.5° | 9546.1  | 9581.4  | 9504.8  | 9291.3  | 9017.4  | 9066.0  | 9014.5  | 10482.6 | 12092.0 | 11903.5 | 7617.1  |
| 50°   | 10214.6 | 10273.5 | 10382.4 | 10467.8 | 10269.1 | 10089.4 | 9936.3  | 11438.2 | 13392.2 | 13222.8 | 8494.7  |
| 52.5° | 10207.2 | 10304.4 | 10649.0 | 11078.9 | 11513.3 | 11458.8 | 11018.5 | 12494.0 | 14633.5 | 14424.4 | 9319.3  |
| 55°   | 9519.6  | 9708.0  | 10214.6 | 10977.3 | 12180.3 | 12779.6 | 12579.4 | 13716.1 | 15705.4 | 15564.1 | 10274.9 |
| 57.5° | 8100.1  | 8214.9  | 8918.8  | 9984.9  | 11807.8 | 13401.0 | 14387.6 | 15372.7 | 16990.9 | 16924.6 | 11759.2 |
| 60°   | 5448.2  | 5499.7  | 6405.3  | 7723.1  | 10052.6 | 12781.1 | 15712.8 | 17376.7 | 18573.8 | 18541.4 | 13492.3 |
| 62.5° | 3121.7  | 3143.7  | 3800.5  | 4912.2  | 7153.3  | 10831.5 | 15824.7 | 19849.0 | 20471.8 | 20489.5 | 15497.8 |
| 65°   | 1680.1  | 1691.9  | 2222.0  | 2883.1  | 4352.6  | 7720.2  | 14230.0 | 21203.7 | 22006.2 | 22040.0 | 16740.6 |
| 66°   | 1450.4  | 1394.4  | 1768.4  | 2457.6  | 3463.3  | 6144.6  | 13221.4 | 21155.1 | 22300.7 | 22263.8 | 16696.4 |
| 67.5° | 1102.9  | 1152.9  | 1412.1  | 1889.2  | 2566.5  | 4368.8  | 10915.5 | 20214.2 | 22076.8 | 21962.0 | 16017.6 |
| 70°   | 789.2   | 809.9   | 1005.7  | 1347.3  | 1747.8  | 2397.2  | 6975.1  | 16789.2 | 20065.4 | 19910.8 | 13954.7 |
| 72.5° | 509.5   | 531.6   | 712.7   | 974.8   | 1263.4  | 1309.0  | 3905.0  | 12130.3 | 15469.8 | 15447.8 | 10509.1 |
| 75°   | 363.7   | 384.3   | 471.2   | 698.0   | 949.7   | 809.9   | 1880.4  | 8175.2  | 9834.7  | 9768.4  | 6501.0  |
| 77.5° | 263.6   | 273.9   | 315.1   | 456.5   | 678.8   | 580.2   | 871.7   | 4365.9  | 4896.0  | 5127.2  | 2872.8  |
| 80°   | 151.7   | 160.5   | 219.4   | 278.3   | 459.4   | 396.1   | 416.7   | 1752.2  | 1806.7  | 1719.9  | 898.2   |
| 82.5° | 75.1    | 85.4    | 131.1   | 189.9   | 287.1   | 266.5   | 191.4   | 527.1   | 556.6   | 541.9   | 226.8   |
| 85°   | 17.7    | 22.1    | 73.6    | 125.2   | 139.9   | 119.3   | 92.8    | 154.6   | 191.4   | 187.0   | 86.9    |
| 87.5° | 1.5     | 2.9     | 26.5    | 22.1    | 23.6    | 39.8    | 32.4    | 39.8    | 61.8    | 57.4    | 30.9    |
| 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°    | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 | 2177.8 |
| 2.5°  | 2196.9 | 2169.0 | 2088.0 | 2008.5 | 1942.2 | 1873.0 | 1809.7 | 1772.9 | 1758.1 | 1741.9 | 1749.3 |
| 5°    | 2227.9 | 2160.1 | 1996.7 | 1855.3 | 1716.9 | 1599.1 | 1504.9 | 1444.5 | 1415.0 | 1410.6 | 1403.3 |
| 7.5°  | 2269.1 | 2152.8 | 1899.5 | 1678.6 | 1497.5 | 1366.5 | 1259.0 | 1172.1 | 1145.6 | 1122.0 | 1102.9 |
| 10°   | 2319.2 | 2139.5 | 1778.8 | 1493.1 | 1300.2 | 1135.3 | 993.9  | 890.8  | 837.8  | 823.1  | 833.4  |
| 12.5° | 2372.2 | 2114.5 | 1652.1 | 1322.3 | 1099.9 | 889.4  | 758.3  | 706.8  | 692.1  | 686.2  | 687.6  |
| 15°   | 2425.2 | 2083.6 | 1519.6 | 1157.4 | 876.1  | 709.7  | 649.4  | 636.1  | 630.2  | 627.3  | 624.3  |
| 17.5° | 2473.8 | 2033.5 | 1370.9 | 996.9  | 709.7  | 606.7  | 584.6  | 572.8  | 561.0  | 556.6  | 549.2  |
| 20°   | 2531.2 | 1976.1 | 1236.9 | 817.2  | 600.8  | 549.2  | 522.7  | 500.6  | 483.0  | 471.2  | 469.7  |
| 22.5° | 2585.7 | 1902.4 | 1097.0 | 677.3  | 547.8  | 493.3  | 450.6  | 427.0  | 406.4  | 391.7  | 396.1  |
| 25°   | 2615.1 | 1812.6 | 971.8  | 590.5  | 499.2  | 437.3  | 390.2  | 360.8  | 338.7  | 331.3  | 329.8  |
| 27.5° | 2615.1 | 1702.2 | 849.6  | 540.4  | 455.0  | 387.3  | 338.7  | 310.7  | 296.0  | 285.7  | 287.1  |
| 30°   | 2594.5 | 1580.0 | 736.2  | 502.1  | 416.7  | 343.1  | 297.4  | 272.4  | 260.6  | 253.3  | 251.8  |
| 32.5° | 2578.3 | 1463.6 | 639.1  | 465.3  | 377.0  | 304.8  | 265.0  | 245.9  | 234.1  | 226.8  | 226.8  |
| 35°   | 2603.3 | 1363.5 | 564.0  | 428.5  | 340.1  | 275.4  | 240.0  | 222.3  | 210.6  | 204.7  | 203.2  |
| 37.5° | 2669.6 | 1272.2 | 506.5  | 388.7  | 306.3  | 250.3  | 222.3  | 201.7  | 189.9  | 182.6  | 179.6  |
| 40°   | 2833.0 | 1220.7 | 463.8  | 351.9  | 273.9  | 229.7  | 201.7  | 182.6  | 167.9  | 160.5  | 159.0  |
| 42.5° | 3095.1 | 1222.2 | 422.6  | 318.1  | 248.8  | 212.0  | 184.1  | 162.0  | 145.8  | 138.4  | 136.9  |
| 45°   | 3489.8 | 1278.1 | 390.2  | 285.7  | 226.8  | 192.9  | 164.9  | 141.4  | 126.6  | 119.3  | 119.3  |
| 47.5° | 3962.4 | 1387.1 | 362.2  | 257.7  | 206.1  | 175.2  | 145.8  | 122.2  | 107.5  | 101.6  | 101.6  |
| 50°   | 4474.9 | 1528.4 | 334.3  | 228.2  | 188.5  | 156.1  | 125.2  | 106.0  | 94.2   | 89.8   | 89.8   |
| 52.5° | 4997.6 | 1699.2 | 306.3  | 204.7  | 169.3  | 135.5  | 107.5  | 94.2   | 83.9   | 81.0   | 79.5   |
| 55°   | 5683.8 | 1917.2 | 276.8  | 179.6  | 148.7  | 116.3  | 95.7   | 82.5   | 70.7   | 66.3   | 64.8   |
| 57.5° | 6739.5 | 2245.5 | 244.4  | 157.6  | 122.2  | 97.2   | 82.5   | 69.2   | 56.0   | 48.6   | 47.1   |
| 60°   | 8013.2 | 2646.0 | 210.6  | 138.4  | 98.7   | 79.5   | 66.3   | 53.0   | 41.2   | 32.4   | 30.9   |
| 62.5° | 9205.9 | 2900.8 | 178.2  | 116.3  | 78.0   | 60.4   | 47.1   | 39.8   | 29.4   | 20.6   | 19.1   |
| 65°   | 9733.1 | 2815.4 | 147.2  | 94.2   | 61.8   | 42.7   | 30.9   | 28.0   | 17.7   | 8.8    | 7.4    |
| 66°   | 9557.8 | 2688.7 | 135.5  | 85.4   | 56.0   | 36.8   | 26.5   | 23.6   | 13.3   | 4.4    | 4.4    |
| 67.5° | 9041.0 | 2389.8 | 117.8  | 73.6   | 48.6   | 29.4   | 20.6   | 17.7   | 7.4    | 1.5    | 0.0    |
| 70°   | 7746.7 | 1933.4 | 92.8   | 54.5   | 35.3   | 20.6   | 11.8   | 8.8    | 4.4    | 0.0    | 0.0    |
| 72.5° | 5950.3 | 1440.1 | 73.6   | 41.2   | 25.0   | 11.8   | 5.9    | 2.9    | 4.4    | 0.0    | 0.0    |
| 75°   | 3645.9 | 823.1  | 57.4   | 30.9   | 16.2   | 7.4    | 4.4    | 0.0    | 4.4    | 1.5    | 0.0    |
| 77.5° | 1618.3 | 369.6  | 38.3   | 20.6   | 11.8   | 5.9    | 2.9    | 0.0    | 2.9    | 1.5    | 0.0    |
| 80°   | 409.3  | 120.7  | 22.1   | 14.7   | 8.8    | 4.4    | 1.5    | 0.0    | 2.9    | 2.9    | 1.5    |
| 82.5° | 111.9  | 44.2   | 16.2   | 11.8   | 7.4    | 4.4    | 1.5    | 0.0    | 2.9    | 2.9    | 2.9    |
| 85°   | 44.2   | 20.6   | 14.7   | 11.8   | 8.8    | 4.4    | 1.5    | 0.0    | 2.9    | 2.9    | 2.9    |
| 87.5° | 20.6   | 14.7   | 14.7   | 13.3   | 10.3   | 4.4    | 1.5    | 0.0    | 2.9    | 1.5    | 2.9    |
| 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)