

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: P452297

Luminaire Tested: **GLAN-SA3B-727-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452297  
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-SA3B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA 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: 11374 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

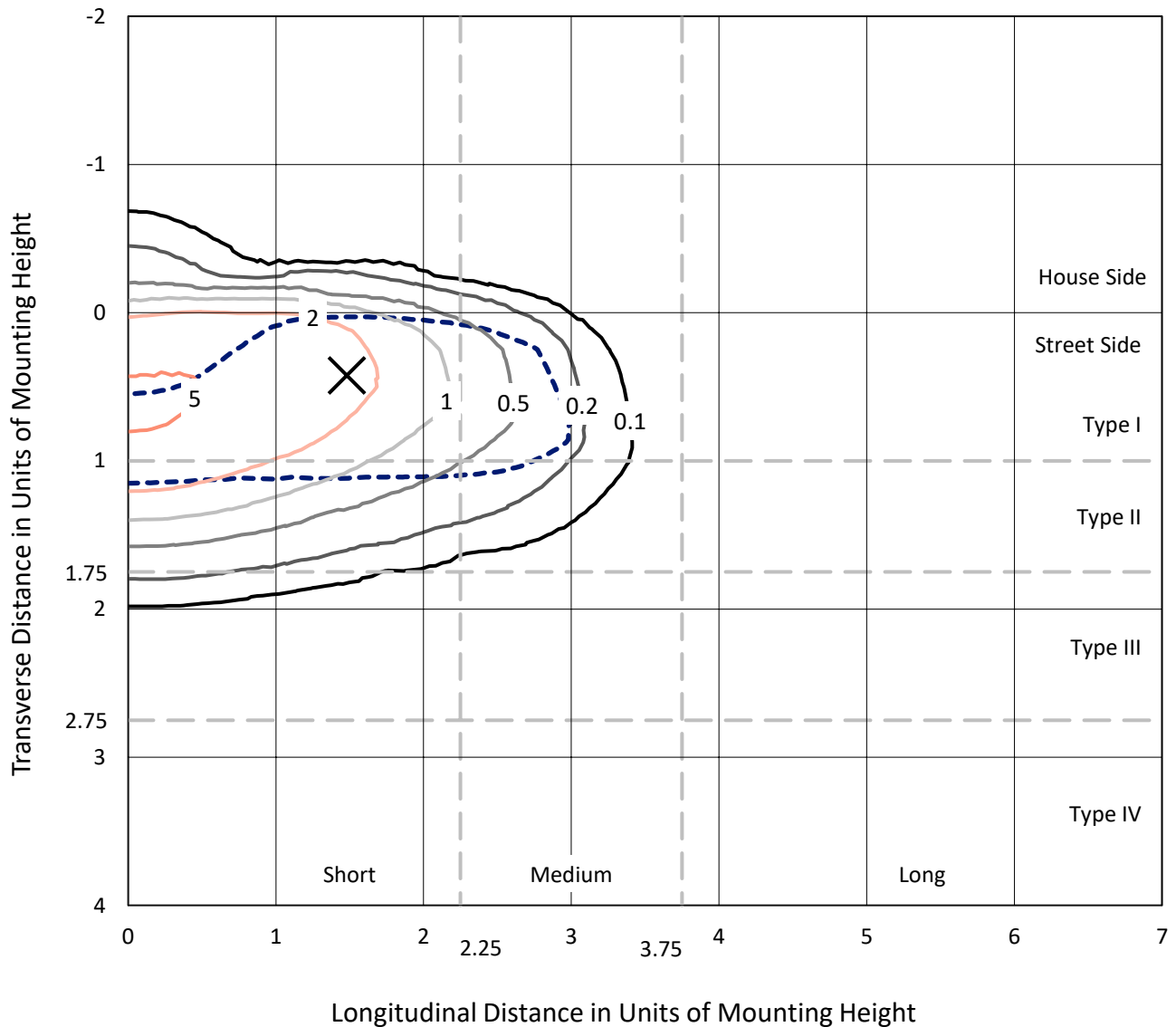
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

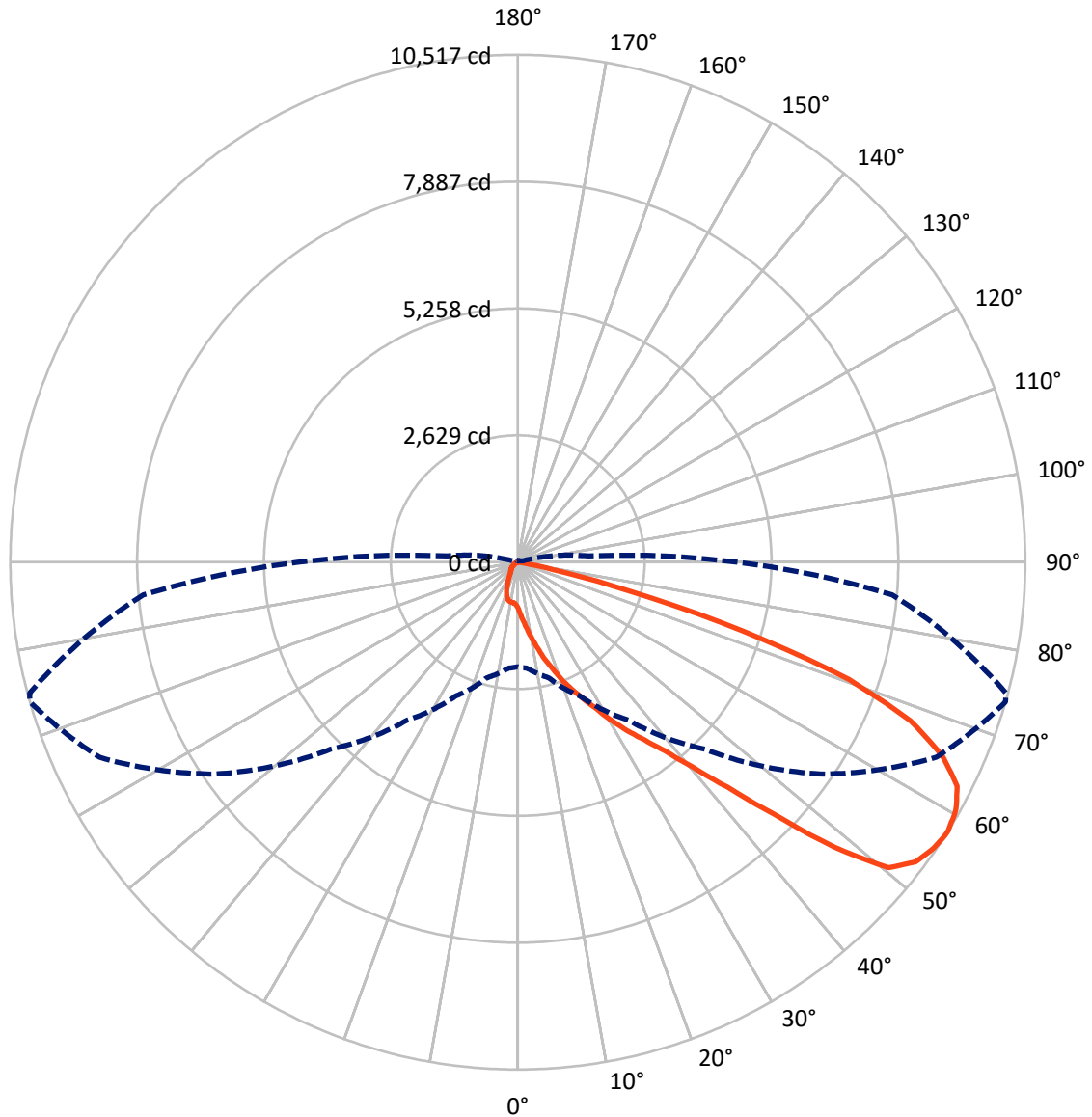
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 656.0    | 0.0    | 656.0   |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 10718.0  | 0.0    | 10718.0 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 11374.0  | 0.0    | 11374.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 115.0   | 1.0       |
| 10°-20°   | 453.2   | 4.0       |
| 20°-30°   | 969.7   | 8.5       |
| 30°-40°   | 1782.3  | 15.7      |
| 40°-50°   | 2732.3  | 24.0      |
| 50°-60°   | 2890.4  | 25.4      |
| 60°-70°   | 1887.5  | 16.6      |
| 70°-80°   | 515.7   | 4.5       |
| 80°-90°   | 27.8    | 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°    | 11374.0 | 100.0     |
| 0°-180°   | 11374.0 | 100.0     |

**Coefficient of Utilization**



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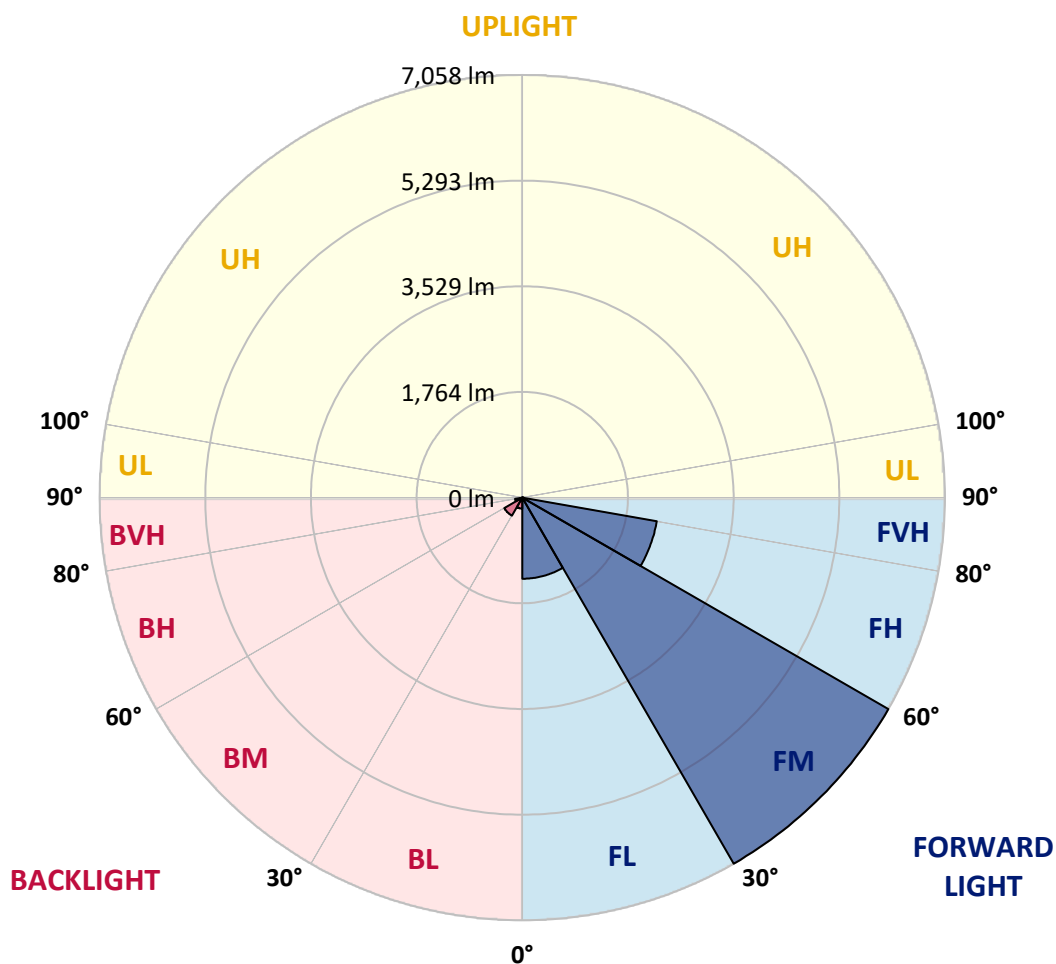
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1354.6 | 11.9      |                         |      |         |
| FM (30°-60°)   | 7057.8 | 62.1      |                         |      |         |
| FH (60°-80°)   | 2280.1 | 20.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 25.5   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 183.2  | 1.6       | B1/500                  |      |         |
| BM (30°-60°)   | 347.3  | 3.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 123.2  | 1.1       | 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: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 952.6  | 952.6  | 952.6  | 952.6  | 952.6  | 952.6  | 952.6  | 952.6  | 952.6   | 952.6   | 952.6  |
| 2.5°  | 1393.9 | 1381.3 | 1356.2 | 1347.6 | 1310.7 | 1253.3 | 1203.1 | 1135.5 | 1082.1  | 1076.6  | 1012.2 |
| 5°    | 1866.6 | 1838.4 | 1826.6 | 1770.0 | 1681.3 | 1598.1 | 1455.1 | 1346.8 | 1221.9  | 1212.5  | 1082.9 |
| 7.5°  | 2322.1 | 2282.8 | 2271.1 | 2217.7 | 2114.0 | 1982.9 | 1797.5 | 1600.4 | 1402.5  | 1384.5  | 1177.9 |
| 10°   | 2651.9 | 2657.4 | 2636.2 | 2600.9 | 2516.9 | 2383.4 | 2154.8 | 1885.5 | 1603.6  | 1580.8  | 1284.7 |
| 12.5° | 2888.3 | 2887.5 | 2891.4 | 2890.7 | 2845.9 | 2744.6 | 2504.3 | 2194.1 | 1825.0  | 1780.3  | 1407.2 |
| 15°   | 3042.2 | 3044.6 | 3056.4 | 3097.2 | 3101.9 | 3039.1 | 2838.8 | 2489.4 | 2081.8  | 2026.1  | 1540.0 |
| 17.5° | 3197.7 | 3214.2 | 3233.0 | 3271.5 | 3306.1 | 3280.9 | 3139.6 | 2797.2 | 2314.3  | 2272.6  | 1682.1 |
| 20°   | 3454.5 | 3477.3 | 3466.3 | 3489.8 | 3507.9 | 3510.2 | 3401.1 | 3081.5 | 2596.2  | 2526.3  | 1844.6 |
| 22.5° | 3865.2 | 3864.4 | 3836.1 | 3793.7 | 3758.4 | 3756.8 | 3657.9 | 3373.6 | 2852.2  | 2784.6  | 2008.0 |
| 25°   | 4384.3 | 4386.6 | 4331.7 | 4210.7 | 4122.8 | 4015.2 | 3901.3 | 3629.6 | 3126.2  | 3043.0  | 2180.0 |
| 27.5° | 4979.5 | 4964.6 | 4881.4 | 4714.9 | 4540.6 | 4356.8 | 4192.7 | 3927.2 | 3416.8  | 3347.7  | 2377.1 |
| 30°   | 5514.3 | 5508.8 | 5411.4 | 5208.0 | 4978.7 | 4794.2 | 4556.3 | 4300.3 | 3793.0  | 3708.1  | 2597.7 |
| 32.5° | 6012.2 | 6020.0 | 5885.0 | 5674.5 | 5453.1 | 5240.2 | 4989.0 | 4656.8 | 4162.0  | 4041.9  | 2838.0 |
| 35°   | 6400.9 | 6408.8 | 6269.0 | 6093.9 | 5866.1 | 5689.4 | 5449.9 | 5036.9 | 4526.4  | 4425.1  | 3114.5 |
| 37.5° | 6608.2 | 6618.4 | 6537.5 | 6405.6 | 6263.5 | 6174.7 | 5951.7 | 5526.1 | 4969.3  | 4908.1  | 3441.1 |
| 40°   | 6647.5 | 6659.3 | 6623.9 | 6588.6 | 6580.7 | 6644.3 | 6579.2 | 6102.5 | 5583.4  | 5487.6  | 3928.0 |
| 42.5° | 6529.7 | 6545.4 | 6561.1 | 6639.6 | 6799.8 | 7033.1 | 7260.0 | 6884.6 | 6374.2  | 6245.4  | 4523.3 |
| 45°   | 6220.3 | 6218.7 | 6280.8 | 6484.1 | 6843.0 | 7340.9 | 7971.5 | 7863.9 | 7451.6  | 7298.5  | 5364.3 |
| 47.5° | 5691.0 | 5683.1 | 5817.4 | 6107.2 | 6666.3 | 7397.4 | 8551.8 | 9052.8 | 8826.7  | 8685.3  | 6268.2 |
| 50°   | 4884.5 | 4923.0 | 5134.2 | 5538.7 | 6227.4 | 7226.2 | 8730.9 | 9832.6 | 9955.1  | 9805.1  | 6998.5 |
| 52.5° | 3939.8 | 3938.2 | 4269.6 | 4818.5 | 5577.1 | 6849.3 | 8606.0 | 9974.0 | 10321.9 | 10207.2 | 7358.2 |
| 55°   | 2915.8 | 2936.2 | 3280.9 | 3834.6 | 4732.9 | 6161.4 | 8198.4 | 9828.7 | 10461.6 | 10380.8 | 7595.3 |
| 57°   | 2169.0 | 2205.1 | 2481.5 | 3067.3 | 3997.9 | 5480.5 | 7655.8 | 9568.8 | 10516.6 | 10472.6 | 7792.4 |
| 57.5° | 2024.5 | 2026.1 | 2295.4 | 2827.8 | 3782.7 | 5219.0 | 7500.3 | 9460.4 | 10515.0 | 10490.7 | 7824.6 |
| 60°   | 1246.3 | 1285.5 | 1471.6 | 1911.4 | 2768.9 | 4073.3 | 6458.2 | 8837.7 | 10433.4 | 10468.7 | 7962.1 |
| 62.5° | 746.0  | 762.5  | 883.5  | 1152.0 | 1785.0 | 2973.1 | 5285.0 | 8040.6 | 10220.6 | 10328.1 | 7952.6 |
| 65°   | 479.8  | 483.7  | 538.7  | 697.3  | 1115.9 | 2009.6 | 4072.5 | 6987.5 | 9670.1  | 9868.0  | 7641.7 |
| 67.5° | 370.7  | 376.9  | 398.9  | 457.8  | 647.1  | 1251.8 | 2880.4 | 5863.8 | 8779.6  | 9034.8  | 6887.8 |
| 70°   | 329.0  | 332.2  | 340.0  | 358.9  | 428.0  | 706.8  | 1792.0 | 4580.6 | 7280.4  | 7352.7  | 5390.2 |
| 72.5° | 268.6  | 277.2  | 301.6  | 307.8  | 339.2  | 441.3  | 997.3  | 3074.4 | 4891.6  | 4909.6  | 3015.5 |
| 75°   | 208.1  | 209.7  | 245.8  | 263.9  | 285.8  | 303.9  | 445.3  | 1550.2 | 2349.6  | 2223.9  | 1162.2 |
| 77.5° | 155.5  | 162.6  | 179.0  | 201.8  | 233.2  | 217.5  | 199.5  | 584.3  | 729.5   | 716.2   | 337.7  |
| 80°   | 99.7   | 103.7  | 124.9  | 151.6  | 181.4  | 142.1  | 112.3  | 171.2  | 160.2   | 164.9   | 80.9   |
| 82.5° | 50.3   | 51.0   | 80.1   | 123.3  | 115.4  | 71.5   | 70.7   | 69.9   | 59.7    | 58.9    | 37.7   |
| 85°   | 5.5    | 11.8   | 51.8   | 70.7   | 51.8   | 23.6   | 33.0   | 32.2   | 31.4    | 32.2    | 22.0   |
| 87.5° | 0.8    | 0.8    | 8.6    | 10.2   | 7.1    | 7.9    | 9.4    | 10.2   | 12.6    | 11.8    | 9.4    |
| 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°    | 952.6  | 952.6  | 952.6 | 952.6 | 952.6 | 952.6 | 952.6 | 952.6 | 952.6 | 952.6 | 952.6 |
| 2.5°  | 980.8  | 949.4  | 891.3 | 835.5 | 793.9 | 767.2 | 732.7 | 720.1 | 702.0 | 699.7 | 691.1 |
| 5°    | 1023.2 | 963.6  | 862.2 | 782.1 | 717.8 | 669.1 | 626.7 | 591.3 | 563.1 | 556.8 | 559.9 |
| 7.5°  | 1083.7 | 995.0  | 853.6 | 744.5 | 654.9 | 571.7 | 504.2 | 462.5 | 432.7 | 421.7 | 423.3 |
| 10°   | 1152.0 | 1036.6 | 852.0 | 704.4 | 567.8 | 465.7 | 391.9 | 355.0 | 337.7 | 331.4 | 324.3 |
| 12.5° | 1232.9 | 1084.5 | 848.1 | 642.4 | 472.0 | 371.4 | 318.8 | 296.8 | 280.3 | 275.6 | 275.6 |
| 15°   | 1324.0 | 1135.5 | 829.3 | 565.4 | 383.2 | 307.0 | 271.7 | 254.4 | 248.9 | 244.2 | 244.2 |
| 17.5° | 1419.0 | 1185.8 | 790.0 | 470.4 | 318.0 | 263.1 | 241.1 | 230.9 | 223.0 | 217.5 | 217.5 |
| 20°   | 1527.4 | 1235.3 | 727.2 | 386.4 | 268.6 | 234.8 | 217.5 | 205.7 | 199.5 | 194.8 | 193.2 |
| 22.5° | 1630.3 | 1275.3 | 647.1 | 317.3 | 234.0 | 211.2 | 195.5 | 183.0 | 176.7 | 174.3 | 174.3 |
| 25°   | 1737.1 | 1299.7 | 550.5 | 262.3 | 213.6 | 191.6 | 174.3 | 164.1 | 158.6 | 157.1 | 156.3 |
| 27.5° | 1840.7 | 1313.8 | 465.7 | 229.3 | 194.8 | 173.5 | 157.1 | 149.2 | 143.7 | 142.1 | 142.9 |
| 30°   | 1966.4 | 1316.1 | 383.2 | 205.7 | 178.3 | 156.3 | 141.4 | 134.3 | 131.1 | 129.6 | 128.8 |
| 32.5° | 2093.6 | 1313.0 | 322.0 | 191.6 | 162.6 | 141.4 | 128.8 | 123.3 | 120.9 | 118.6 | 118.6 |
| 35°   | 2236.5 | 1296.5 | 274.1 | 177.5 | 147.6 | 128.8 | 117.8 | 113.1 | 109.9 | 107.6 | 106.8 |
| 37.5° | 2414.0 | 1287.9 | 246.6 | 161.8 | 134.3 | 117.0 | 106.8 | 102.1 | 99.7  | 96.6  | 95.8  |
| 40°   | 2693.5 | 1326.4 | 237.9 | 147.6 | 120.9 | 106.0 | 96.6  | 91.1  | 88.0  | 84.8  | 84.0  |
| 42.5° | 3042.2 | 1393.9 | 223.8 | 133.5 | 109.2 | 95.8  | 86.4  | 80.1  | 74.6  | 70.7  | 69.1  |
| 45°   | 3493.8 | 1482.6 | 201.8 | 118.6 | 98.9  | 84.8  | 76.2  | 68.3  | 61.3  | 58.1  | 57.3  |
| 47.5° | 3967.3 | 1568.2 | 182.2 | 106.8 | 88.0  | 75.4  | 66.0  | 57.3  | 51.0  | 48.7  | 47.9  |
| 50°   | 4257.8 | 1585.5 | 169.6 | 93.4  | 77.0  | 65.2  | 55.8  | 47.9  | 44.0  | 41.6  | 41.6  |
| 52.5° | 4390.6 | 1558.0 | 152.3 | 81.7  | 66.7  | 57.3  | 47.9  | 41.6  | 39.3  | 37.7  | 36.9  |
| 55°   | 4483.2 | 1515.6 | 129.6 | 70.7  | 57.3  | 48.7  | 42.4  | 37.7  | 34.6  | 33.0  | 32.2  |
| 57°   | 4537.4 | 1458.3 | 112.3 | 62.0  | 49.5  | 42.4  | 37.7  | 33.8  | 30.6  | 27.5  | 27.5  |
| 57.5° | 4539.8 | 1436.3 | 107.6 | 61.3  | 47.1  | 40.8  | 36.9  | 33.0  | 29.1  | 25.9  | 25.1  |
| 60°   | 4469.9 | 1285.5 | 86.4  | 51.8  | 37.7  | 34.6  | 30.6  | 25.9  | 20.4  | 17.3  | 16.5  |
| 62.5° | 4245.3 | 1093.9 | 71.5  | 44.0  | 30.6  | 26.7  | 22.0  | 19.6  | 14.1  | 10.2  | 10.2  |
| 65°   | 3905.3 | 887.4  | 61.3  | 35.3  | 25.1  | 19.6  | 14.9  | 14.1  | 8.6   | 4.7   | 3.9   |
| 67.5° | 3413.7 | 691.1  | 51.8  | 29.1  | 21.2  | 14.1  | 10.2  | 9.4   | 4.7   | 1.6   | 0.0   |
| 70°   | 2600.9 | 471.2  | 43.2  | 23.6  | 15.7  | 10.2  | 7.1   | 5.5   | 3.1   | 0.8   | 0.0   |
| 72.5° | 1499.1 | 259.1  | 36.1  | 18.1  | 11.8  | 7.9   | 5.5   | 3.1   | 3.1   | 0.0   | 0.0   |
| 75°   | 535.6  | 111.5  | 27.5  | 13.3  | 9.4   | 6.3   | 3.9   | 1.6   | 2.4   | 0.8   | 0.0   |
| 77.5° | 170.4  | 59.7   | 18.1  | 10.2  | 7.9   | 4.7   | 3.1   | 1.6   | 1.6   | 0.8   | 0.0   |
| 80°   | 50.3   | 31.4   | 11.0  | 8.6   | 5.5   | 3.9   | 2.4   | 0.8   | 1.6   | 0.8   | 0.0   |
| 82.5° | 27.5   | 15.7   | 8.6   | 6.3   | 5.5   | 3.1   | 2.4   | 0.8   | 0.8   | 0.8   | 0.0   |
| 85°   | 14.1   | 9.4    | 7.1   | 6.3   | 5.5   | 3.1   | 2.4   | 0.8   | 0.0   | 0.8   | 0.8   |
| 87.5° | 7.9    | 7.1    | 7.1   | 6.3   | 5.5   | 3.9   | 2.4   | 0.8   | 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)