

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: P453316

Luminaire Tested: **GLAN-SA4B-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17624 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

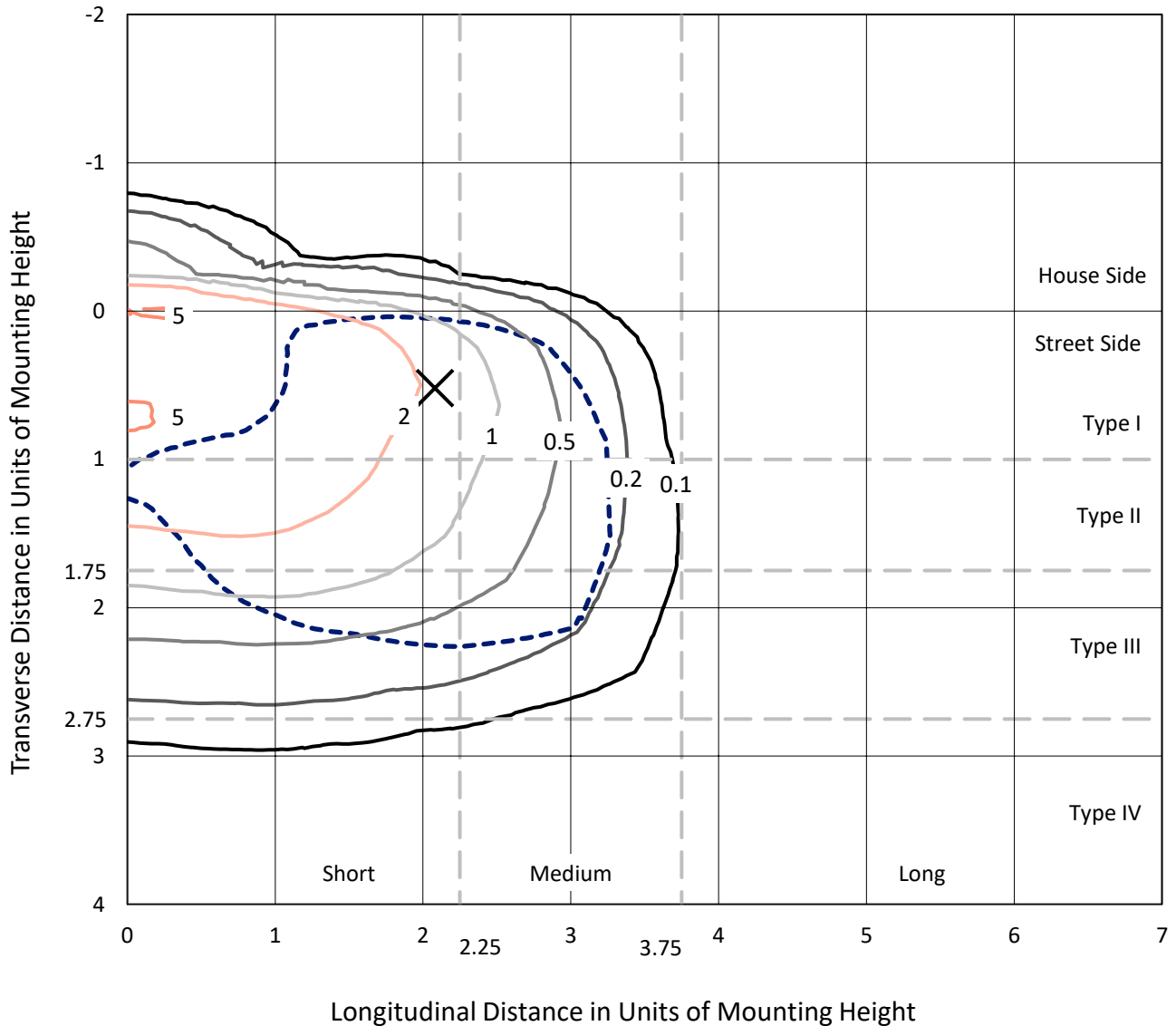
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

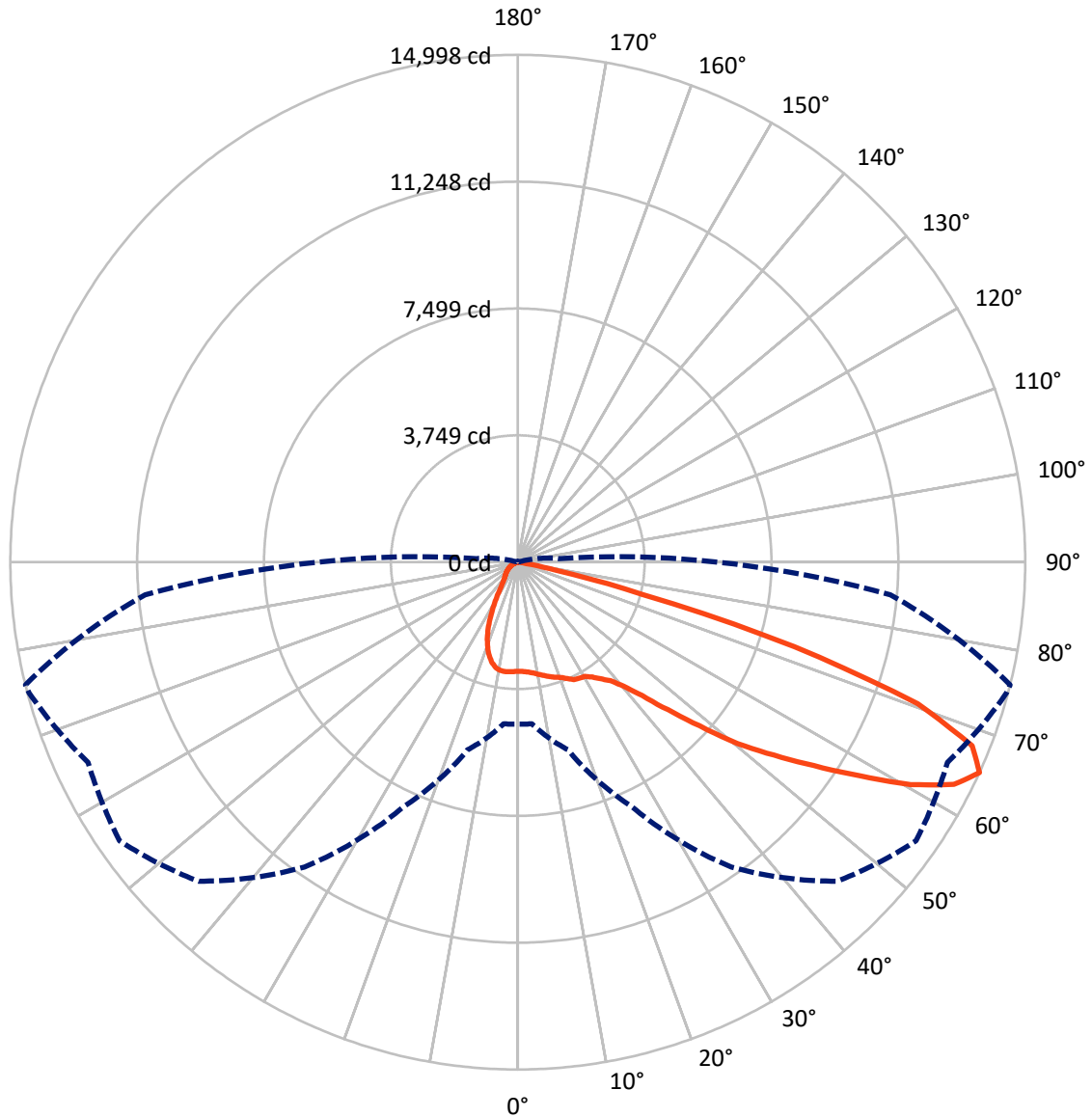
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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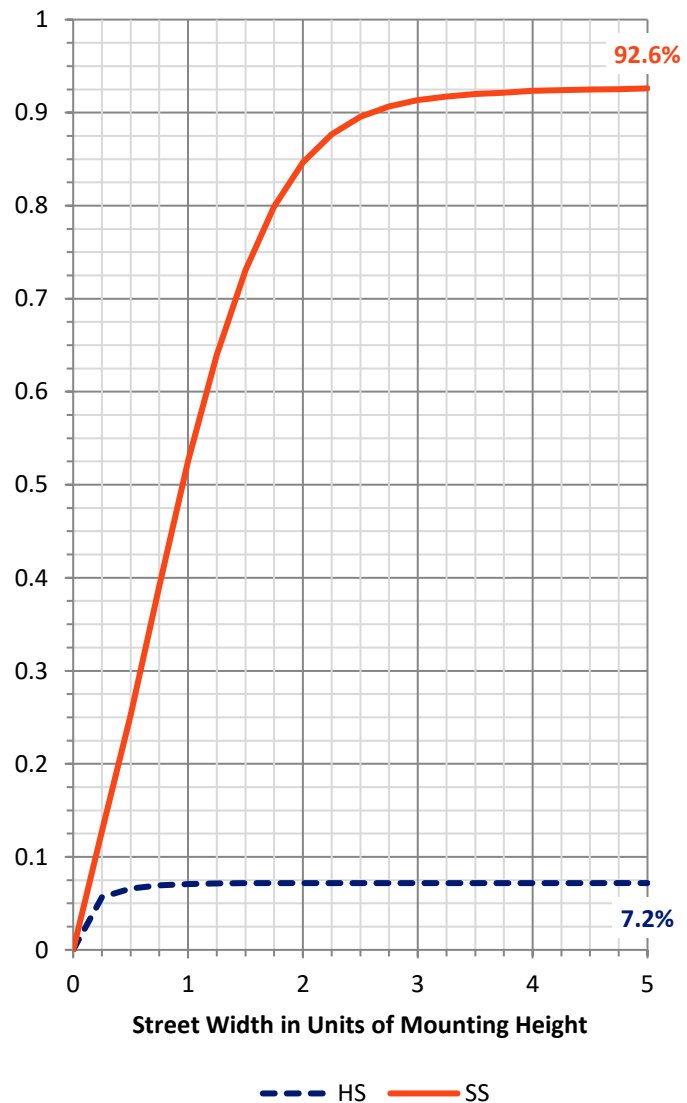
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1272.8   | 0.0    | 1272.8  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 16351.2  | 0.0    | 16351.2 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 17624.0  | 0.0    | 17624.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.6   | 1.5       |
| 10°-20°   | 591.3   | 3.4       |
| 20°-30°   | 952.9   | 5.4       |
| 30°-40°   | 1656.8  | 9.4       |
| 40°-50°   | 2737.8  | 15.5      |
| 50°-60°   | 4229.4  | 24.0      |
| 60°-70°   | 5164.6  | 29.3      |
| 70°-80°   | 1960.1  | 11.1      |
| 80°-90°   | 65.4    | 0.4       |
| 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°    | 17624.0 | 100.0     |
| 0°-180°   | 17624.0 | 100.0     |



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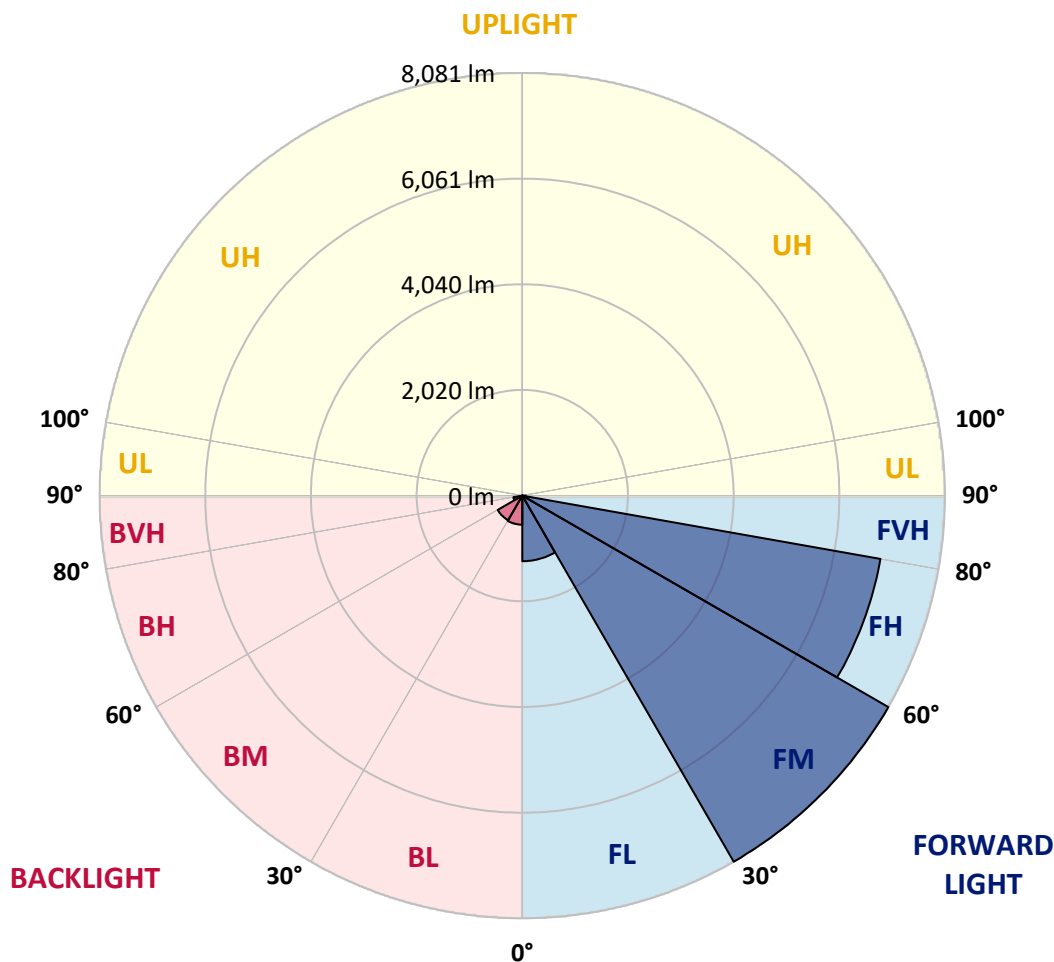
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1253.7 | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 8080.9 | 45.9      |                         |      |         |
| FH   | (60°-80°)   | 6952.1 | 39.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 64.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 556.1  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 543.1  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 172.7  | 1.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.9    | 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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0  | 3224.0  | 3224.0  | 3224.0  | 3224.0  | 3224.0  | 3224.0  |
| 2.5°  | 3080.9 | 3082.1 | 3089.6 | 3108.3 | 3136.9  | 3160.5  | 3180.4  | 3212.8  | 3235.2  | 3237.7  | 3245.1  |
| 5°    | 2868.1 | 2853.2 | 2868.1 | 2916.6 | 2960.2  | 3026.1  | 3107.0  | 3187.9  | 3260.1  | 3265.1  | 3299.9  |
| 7.5°  | 2629.2 | 2641.7 | 2665.3 | 2715.1 | 2797.2  | 2898.0  | 3014.9  | 3159.3  | 3296.2  | 3308.6  | 3377.0  |
| 10°   | 2386.6 | 2414.0 | 2452.5 | 2528.4 | 2642.9  | 2773.6  | 2932.8  | 3139.4  | 3353.4  | 3370.8  | 3489.0  |
| 12.5° | 2162.6 | 2175.0 | 2222.3 | 2324.4 | 2466.2  | 2650.4  | 2870.6  | 3128.2  | 3416.9  | 3438.0  | 3608.5  |
| 15°   | 1990.9 | 2007.1 | 2048.1 | 2140.2 | 2298.2  | 2534.6  | 2819.6  | 3124.4  | 3479.1  | 3508.9  | 3727.9  |
| 17.5° | 1958.5 | 1968.5 | 1985.9 | 2048.1 | 2186.2  | 2442.6  | 2773.6  | 3123.2  | 3538.8  | 3574.9  | 3838.7  |
| 20°   | 2091.7 | 2083.0 | 2065.5 | 2059.3 | 2135.2  | 2371.6  | 2740.0  | 3133.2  | 3596.0  | 3637.1  | 3955.6  |
| 22.5° | 2425.1 | 2436.3 | 2334.3 | 2213.6 | 2188.7  | 2360.4  | 2735.0  | 3180.4  | 3686.9  | 3735.4  | 4086.3  |
| 25°   | 3133.2 | 3047.3 | 2888.0 | 2599.4 | 2381.6  | 2428.9  | 2791.0  | 3292.4  | 3792.6  | 3846.1  | 4204.5  |
| 27.5° | 3915.8 | 3889.7 | 3642.1 | 3166.8 | 2761.1  | 2573.2  | 2890.5  | 3378.3  | 3827.5  | 3882.2  | 4271.7  |
| 30°   | 4684.8 | 4715.9 | 4432.2 | 3907.1 | 3312.3  | 2840.7  | 2983.8  | 3410.6  | 3858.6  | 3915.8  | 4357.6  |
| 32.5° | 5397.8 | 5435.1 | 5186.3 | 4666.1 | 3961.9  | 3303.6  | 3144.4  | 3536.3  | 3989.2  | 4047.7  | 4500.6  |
| 35°   | 5959.0 | 5963.9 | 5776.1 | 5361.7 | 4671.1  | 3866.1  | 3491.5  | 3756.6  | 4165.9  | 4234.4  | 4652.5  |
| 37.5° | 6474.1 | 6466.6 | 6246.4 | 5889.3 | 5262.2  | 4424.7  | 3928.3  | 4010.4  | 4367.5  | 4438.4  | 4871.5  |
| 40°   | 6856.1 | 6861.1 | 6790.2 | 6454.2 | 5813.4  | 4941.1  | 4274.2  | 4248.1  | 4706.0  | 4816.7  | 5190.0  |
| 42.5° | 7111.2 | 7157.2 | 7192.1 | 7021.6 | 6506.5  | 5577.0  | 4805.5  | 4757.0  | 5293.3  | 5385.3  | 5640.4  |
| 45°   | 7317.8 | 7399.9 | 7574.1 | 7565.4 | 7172.2  | 6357.1  | 5534.7  | 5435.1  | 6125.7  | 6224.0  | 6214.1  |
| 47.5° | 7468.3 | 7551.7 | 7840.4 | 8014.6 | 7798.1  | 7113.7  | 6451.7  | 6365.9  | 7119.9  | 7226.9  | 6847.4  |
| 50°   | 7545.5 | 7645.0 | 8013.3 | 8350.5 | 8287.1  | 7842.8  | 7496.9  | 7501.9  | 8320.7  | 8423.9  | 7581.5  |
| 52.5° | 7365.0 | 7494.4 | 8105.4 | 8712.6 | 8835.8  | 8540.9  | 8476.2  | 8640.4  | 9389.5  | 9477.9  | 8244.8  |
| 55°   | 6788.9 | 6951.9 | 7979.7 | 9021.2 | 9471.6  | 9364.6  | 9588.6  | 9838.7  | 10557.9 | 10615.2 | 8925.4  |
| 57.5° | 6424.3 | 6597.3 | 7608.9 | 9283.8 | 10235.6 | 10399.9 | 10754.5 | 10937.4 | 11763.7 | 11909.2 | 9706.8  |
| 60°   | 6117.0 | 6252.6 | 7304.1 | 9339.7 | 11012.1 | 11666.6 | 12011.3 | 12200.4 | 13251.8 | 13346.4 | 10566.6 |
| 62.5° | 5605.6 | 5761.1 | 6788.9 | 8949.0 | 11402.8 | 12680.7 | 13394.9 | 13310.3 | 14402.8 | 14468.8 | 11094.2 |
| 65°   | 4783.1 | 4796.8 | 5743.7 | 7967.3 | 10999.6 | 13338.9 | 14366.7 | 14012.1 | 14952.8 | 14997.6 | 11053.2 |
| 67.5° | 3569.9 | 3701.8 | 4418.5 | 6262.6 | 9291.2  | 12776.5 | 14681.5 | 14030.8 | 14605.6 | 14481.2 | 10175.9 |
| 70°   | 2299.5 | 2400.3 | 2995.0 | 4342.6 | 6699.3  | 10662.4 | 13637.6 | 13068.9 | 12818.8 | 12542.6 | 8329.4  |
| 72.5° | 1061.4 | 1190.8 | 1779.4 | 2481.1 | 3973.1  | 7595.2  | 11070.6 | 10617.6 | 9226.5  | 8544.6  | 5294.5  |
| 75°   | 462.9  | 495.2  | 878.5  | 1309.0 | 1862.7  | 4016.6  | 7299.1  | 6591.1  | 4167.2  | 3806.3  | 2119.0  |
| 77.5° | 282.5  | 303.6  | 460.4  | 701.8  | 731.7   | 1530.5  | 3932.0  | 2875.6  | 1287.9  | 1136.0  | 574.9   |
| 80°   | 191.6  | 215.3  | 334.7  | 367.1  | 250.1   | 426.8   | 1475.7  | 767.7   | 260.1   | 248.9   | 123.2   |
| 82.5° | 93.3   | 118.2  | 247.6  | 205.3  | 108.3   | 136.9   | 429.3   | 164.2   | 75.9    | 70.9    | 43.6    |
| 85°   | 13.7   | 23.6   | 139.4  | 134.4  | 48.5    | 32.4    | 75.9    | 41.1    | 26.1    | 24.9    | 19.9    |
| 87.5° | 0.0    | 0.0    | 47.3   | 21.2   | 5.0     | 5.0     | 8.7     | 8.7     | 10.0    | 8.7     | 10.0    |
| 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°    | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 | 3224.0 |
| 2.5°  | 3248.9 | 3255.1 | 3231.5 | 3197.9 | 3161.8 | 3125.7 | 3074.7 | 3028.6 | 3001.3 | 3017.4 | 2977.6 |
| 5°    | 3307.4 | 3302.4 | 3240.2 | 3138.1 | 3002.5 | 2839.5 | 2677.7 | 2539.6 | 2494.8 | 2427.6 | 2420.2 |
| 7.5°  | 3388.2 | 3374.6 | 3242.7 | 3008.7 | 2702.6 | 2396.5 | 2097.9 | 1900.1 | 1786.8 | 1691.0 | 1693.5 |
| 10°   | 3501.5 | 3461.7 | 3214.0 | 2781.0 | 2277.1 | 1815.4 | 1434.7 | 1173.4 | 1060.1 | 1024.1 | 995.4  |
| 12.5° | 3618.4 | 3541.3 | 3134.4 | 2473.7 | 1773.1 | 1240.6 | 872.3  | 713.0  | 643.3  | 620.9  | 618.4  |
| 15°   | 3723.0 | 3601.0 | 2995.0 | 2104.1 | 1289.1 | 792.6  | 594.8  | 542.5  | 533.8  | 535.1  | 533.8  |
| 17.5° | 3826.2 | 3648.3 | 2802.2 | 1712.2 | 876.0  | 568.6  | 511.4  | 499.0  | 502.7  | 507.7  | 506.4  |
| 20°   | 3912.1 | 3658.3 | 2555.8 | 1306.5 | 619.7  | 499.0  | 480.3  | 477.8  | 481.5  | 485.3  | 485.3  |
| 22.5° | 4005.4 | 3665.7 | 2263.4 | 904.6  | 506.4  | 464.1  | 454.2  | 454.2  | 459.1  | 464.1  | 465.4  |
| 25°   | 4075.1 | 3624.7 | 1913.7 | 649.5  | 446.7  | 430.5  | 425.6  | 426.8  | 431.8  | 434.3  | 433.0  |
| 27.5° | 4086.3 | 3508.9 | 1542.9 | 497.7  | 405.6  | 389.5  | 384.5  | 389.5  | 383.2  | 387.0  | 384.5  |
| 30°   | 4096.2 | 3362.1 | 1167.2 | 419.3  | 368.3  | 343.4  | 336.0  | 328.5  | 323.5  | 317.3  | 316.1  |
| 32.5° | 4127.4 | 3189.2 | 852.3  | 377.0  | 333.5  | 306.1  | 288.7  | 267.5  | 251.3  | 246.4  | 245.1  |
| 35°   | 4141.0 | 2981.4 | 625.9  | 343.4  | 302.4  | 272.5  | 241.4  | 211.5  | 187.9  | 179.2  | 185.4  |
| 37.5° | 4193.3 | 2779.8 | 485.3  | 318.5  | 275.0  | 237.7  | 197.8  | 160.5  | 138.1  | 133.1  | 135.6  |
| 40°   | 4300.3 | 2560.8 | 406.9  | 297.4  | 251.3  | 205.3  | 156.8  | 120.7  | 105.8  | 100.8  | 99.5   |
| 42.5° | 4472.0 | 2343.0 | 362.1  | 277.5  | 227.7  | 173.0  | 123.2  | 94.6   | 82.1   | 78.4   | 78.4   |
| 45°   | 4681.1 | 2134.0 | 331.0  | 256.3  | 202.8  | 139.4  | 97.1   | 75.9   | 68.4   | 65.9   | 65.9   |
| 47.5° | 4956.1 | 1951.1 | 304.9  | 235.2  | 175.4  | 110.7  | 78.4   | 65.9   | 61.0   | 62.2   | 63.5   |
| 50°   | 5234.8 | 1815.4 | 276.2  | 211.5  | 144.3  | 90.8   | 67.2   | 58.5   | 57.2   | 58.5   | 58.5   |
| 52.5° | 5445.1 | 1735.8 | 237.7  | 179.2  | 113.2  | 75.9   | 59.7   | 54.7   | 53.5   | 51.0   | 51.0   |
| 55°   | 5728.8 | 1718.4 | 189.1  | 145.6  | 89.6   | 63.5   | 53.5   | 49.8   | 46.0   | 43.6   | 42.3   |
| 57.5° | 6093.4 | 1738.3 | 145.6  | 113.2  | 69.7   | 52.3   | 47.3   | 41.1   | 36.1   | 31.1   | 31.1   |
| 60°   | 6319.8 | 1693.5 | 113.2  | 87.1   | 51.0   | 42.3   | 36.1   | 29.9   | 23.6   | 19.9   | 18.7   |
| 62.5° | 6247.7 | 1504.4 | 89.6   | 64.7   | 36.1   | 31.1   | 23.6   | 19.9   | 13.7   | 10.0   | 8.7    |
| 65°   | 5875.6 | 1214.4 | 72.2   | 44.8   | 26.1   | 18.7   | 12.4   | 12.4   | 6.2    | 1.2    | 0.0    |
| 67.5° | 5142.7 | 899.6  | 57.2   | 29.9   | 14.9   | 8.7    | 6.2    | 3.7    | 0.0    | 0.0    | 0.0    |
| 70°   | 4185.8 | 649.5  | 44.8   | 18.7   | 8.7    | 6.2    | 2.5    | 1.2    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2657.8 | 372.0  | 34.8   | 11.2   | 6.2    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1027.8 | 145.6  | 23.6   | 7.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 291.2  | 68.4   | 13.7   | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 75.9   | 29.9   | 7.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 36.1   | 12.4   | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 21.2   | 5.0    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.0   | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)