

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: P454648

Luminaire Tested: **GLAN-SA5D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25903 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 309  
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

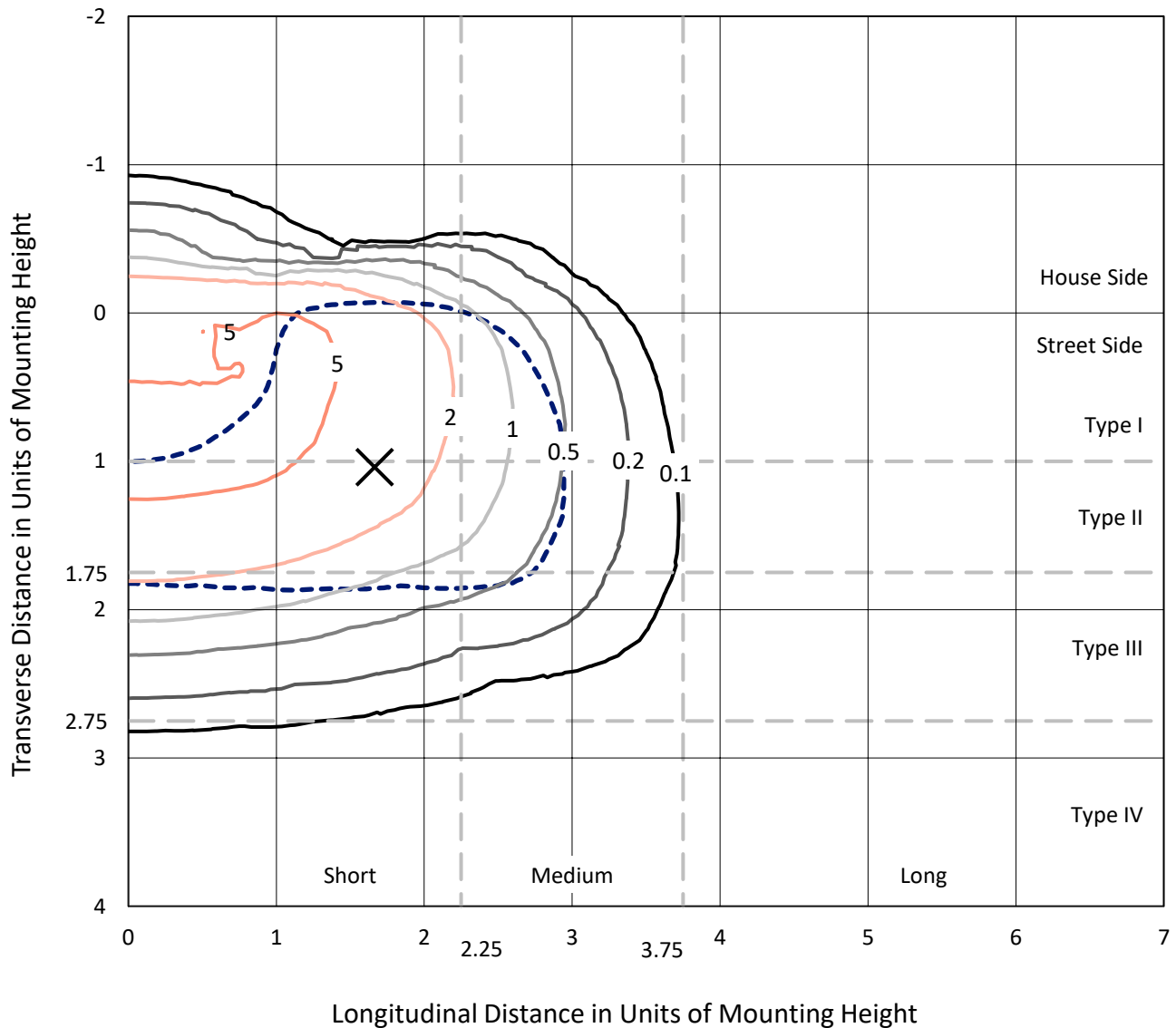


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

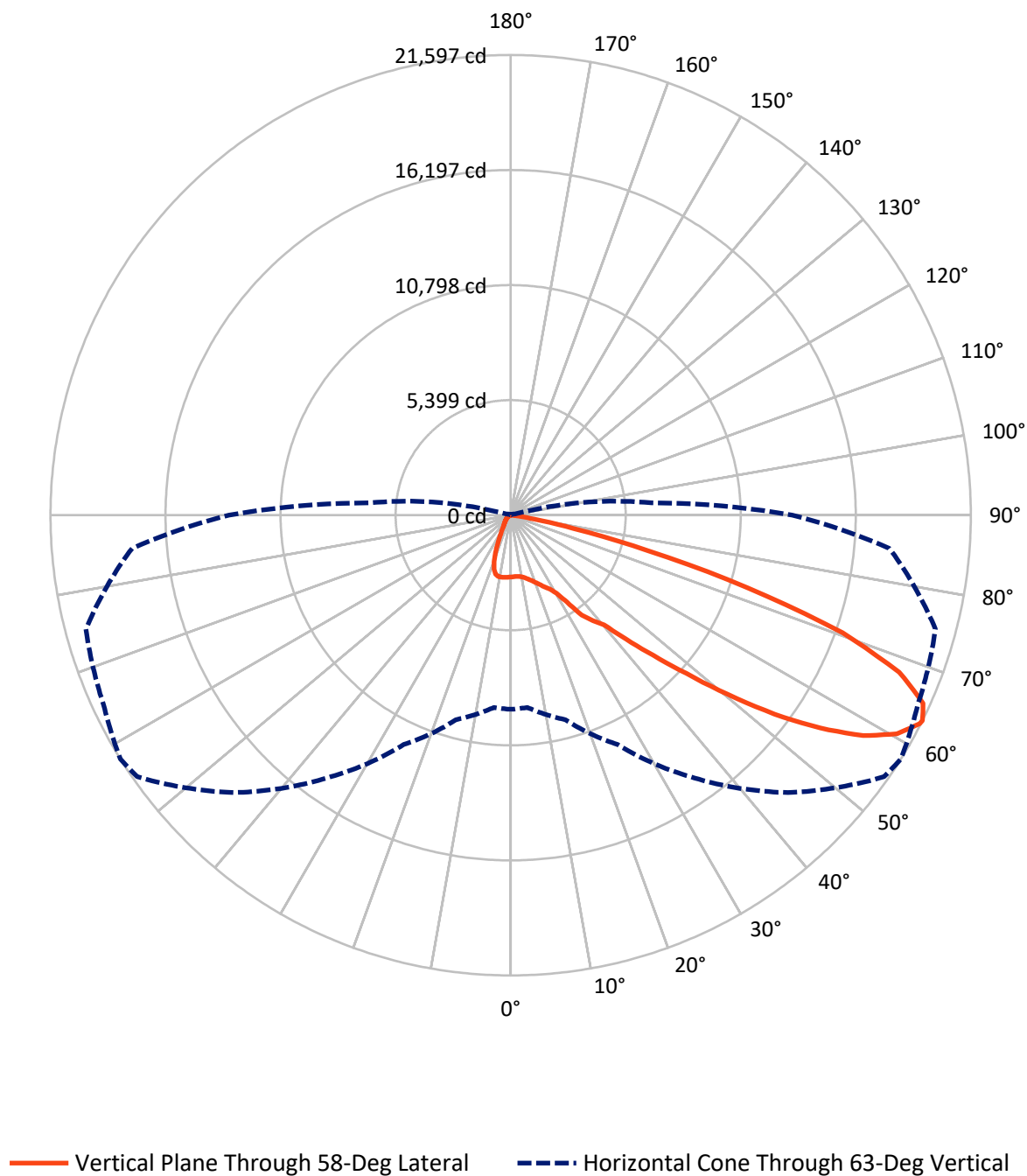


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2682.1   | 0.0    | 2682.1  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 23220.9  | 0.0    | 23220.9 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 25903.0  | 0.0    | 25903.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 271.5   | 1.0       |
| 10°-20°   | 739.4   | 2.9       |
| 20°-30°   | 1283.3  | 5.0       |
| 30°-40°   | 2358.1  | 9.1       |
| 40°-50°   | 4439.1  | 17.1      |
| 50°-60°   | 7592.8  | 29.3      |
| 60°-70°   | 7270.1  | 28.1      |
| 70°-80°   | 1853.9  | 7.2       |
| 80°-90°   | 94.8    | 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°    | 25903.0 | 100.0     |
| 0°-180°   | 25903.0 | 100.0     |

**Coefficient of Utilization**



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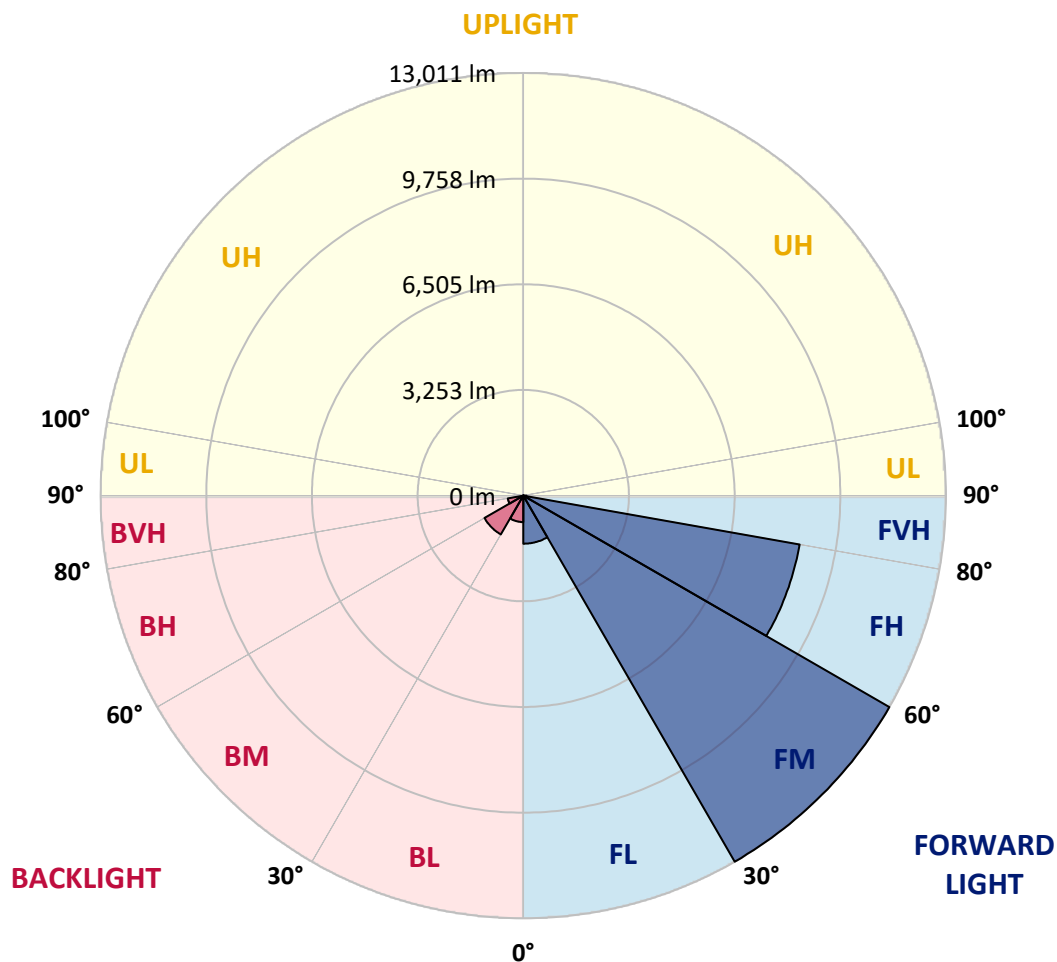
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1480.7  | 5.7       |                         |      |          |
| FM   | (30°-60°)   | 13010.6 | 50.2      |                         |      |          |
| FH   | (60°-80°)   | 8638.5  | 33.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 91.1    | 0.4       |                         |      | G1/100   |
| BL   | (0°-30°)    | 813.4   | 3.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1379.5  | 5.3       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 485.5   | 1.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.7     | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  | 2899.9  |
| 2.5°  | 2827.8  | 2837.5  | 2847.3  | 2851.2  | 2864.8  | 2878.5  | 2888.2  | 2886.3  | 2901.9  | 2909.7  | 2909.7  |
| 5°    | 2714.7  | 2714.7  | 2740.0  | 2763.4  | 2802.4  | 2841.4  | 2878.5  | 2886.3  | 2915.5  | 2942.8  | 2952.6  |
| 7.5°  | 2619.1  | 2625.0  | 2644.5  | 2687.4  | 2740.0  | 2808.3  | 2882.4  | 2899.9  | 2950.6  | 3011.1  | 3036.5  |
| 10°   | 2574.3  | 2578.2  | 2603.5  | 2648.4  | 2714.7  | 2808.3  | 2911.6  | 2944.8  | 3022.8  | 3118.4  | 3153.5  |
| 12.5° | 2564.5  | 2570.4  | 2595.7  | 2646.4  | 2722.5  | 2835.6  | 2976.0  | 3011.1  | 3124.2  | 3247.1  | 3299.7  |
| 15°   | 2582.1  | 2586.0  | 2611.3  | 2665.9  | 2749.8  | 2884.3  | 3061.8  | 3110.6  | 3245.1  | 3387.5  | 3455.7  |
| 17.5° | 2644.5  | 2640.6  | 2658.1  | 2703.0  | 2796.6  | 2944.8  | 3165.2  | 3223.7  | 3381.6  | 3576.7  | 3621.5  |
| 20°   | 2909.7  | 2884.3  | 2868.7  | 2829.7  | 2866.8  | 3030.6  | 3290.0  | 3375.8  | 3570.8  | 3769.7  | 3800.9  |
| 22.5° | 3481.1  | 3424.5  | 3313.4  | 3161.3  | 3044.3  | 3147.6  | 3440.1  | 3539.6  | 3791.2  | 3986.2  | 3986.2  |
| 25°   | 4208.5  | 4136.4  | 4025.2  | 3693.7  | 3407.0  | 3340.7  | 3609.8  | 3734.6  | 4031.1  | 4228.0  | 4163.7  |
| 27.5° | 5119.3  | 5062.7  | 4846.2  | 4460.1  | 4021.3  | 3678.1  | 3806.8  | 3921.8  | 4243.6  | 4481.5  | 4347.0  |
| 30°   | 5860.3  | 5833.0  | 5655.6  | 5310.4  | 4826.7  | 4325.5  | 4173.4  | 4249.5  | 4526.4  | 4801.4  | 4662.9  |
| 32.5° | 6486.4  | 6486.4  | 6305.0  | 5983.2  | 5530.8  | 5086.1  | 4795.5  | 4850.1  | 5115.4  | 5433.2  | 5175.8  |
| 35°   | 7174.8  | 7151.4  | 7005.1  | 6698.9  | 6191.9  | 5799.9  | 5680.9  | 5755.0  | 5994.9  | 6230.9  | 5597.1  |
| 37.5° | 7898.3  | 7890.5  | 7738.4  | 7441.9  | 7028.5  | 6535.1  | 6256.2  | 6275.7  | 6398.6  | 6542.9  | 6090.5  |
| 40°   | 8684.2  | 8695.9  | 8497.0  | 8313.7  | 7923.6  | 7418.5  | 6884.2  | 6761.3  | 6876.4  | 7284.0  | 7001.2  |
| 42.5° | 9612.5  | 9585.2  | 9499.4  | 9249.8  | 8935.8  | 8633.5  | 7991.9  | 7947.0  | 8048.5  | 8485.3  | 8179.1  |
| 45°   | 10691.0 | 10730.0 | 10581.8 | 10443.3 | 10232.7 | 9981.1  | 9444.8  | 9366.8  | 9478.0  | 10156.6 | 9721.7  |
| 47.5° | 11771.4 | 11734.3 | 11829.9 | 11804.5 | 11917.6 | 11730.4 | 11256.5 | 11096.6 | 11363.8 | 12007.4 | 11367.7 |
| 50°   | 12594.4 | 12635.3 | 12834.2 | 13124.8 | 13610.4 | 13715.7 | 13261.3 | 13206.7 | 13325.7 | 13739.1 | 12840.1 |
| 52.5° | 13128.7 | 13265.2 | 13577.3 | 14324.2 | 15199.8 | 15880.4 | 15535.3 | 15506.0 | 15457.3 | 15568.4 | 14248.1 |
| 55°   | 13477.8 | 13616.3 | 14023.9 | 15123.8 | 16631.3 | 17737.0 | 17754.6 | 17629.8 | 17308.0 | 17228.0 | 15564.5 |
| 57.5° | 13263.3 | 13290.6 | 13871.7 | 15342.2 | 17425.0 | 19061.2 | 19634.6 | 19509.8 | 18914.9 | 18612.7 | 16726.8 |
| 60°   | 11921.5 | 11978.1 | 12787.4 | 14515.3 | 17079.8 | 19494.2 | 20880.7 | 20824.2 | 20172.8 | 19831.5 | 17631.7 |
| 62.5° | 9544.3  | 9708.1  | 10540.8 | 12467.6 | 15474.8 | 18764.8 | 21385.8 | 21545.8 | 21038.7 | 20568.7 | 17916.4 |
| 63°   | 9107.4  | 9054.8  | 9934.3  | 11870.8 | 15049.7 | 18404.0 | 21393.6 | 21596.5 | 21077.7 | 20638.9 | 17838.4 |
| 65°   | 6741.8  | 6899.8  | 7471.2  | 9360.9  | 12524.2 | 16724.9 | 20911.9 | 21270.8 | 20933.4 | 20328.8 | 16974.5 |
| 67.5° | 3785.3  | 3777.5  | 4409.4  | 6125.6  | 8766.1  | 13119.0 | 18909.1 | 19667.7 | 19597.5 | 18242.1 | 14070.7 |
| 70°   | 1852.7  | 1881.9  | 2141.3  | 3174.9  | 5084.2  | 9050.9  | 15712.7 | 16531.8 | 16557.2 | 14328.1 | 9729.5  |
| 72.5° | 838.6   | 852.2   | 1037.5  | 1546.5  | 2613.3  | 4818.9  | 10827.5 | 11609.5 | 11465.2 | 9130.8  | 5372.8  |
| 75°   | 442.7   | 471.9   | 571.4   | 778.1   | 1259.8  | 1987.2  | 5889.6  | 6646.3  | 6344.0  | 4171.5  | 1977.5  |
| 77.5° | 327.6   | 337.4   | 388.1   | 495.3   | 674.8   | 774.2   | 2541.1  | 3022.8  | 2831.7  | 1509.5  | 655.3   |
| 80°   | 239.9   | 247.7   | 288.6   | 351.0   | 425.1   | 393.9   | 957.5   | 1098.0  | 984.8   | 512.9   | 200.9   |
| 82.5° | 146.3   | 148.2   | 210.6   | 261.3   | 267.2   | 220.4   | 315.9   | 339.3   | 354.9   | 288.6   | 109.2   |
| 85°   | 52.7    | 66.3    | 142.4   | 189.2   | 158.0   | 111.2   | 132.6   | 146.3   | 159.9   | 183.3   | 64.4    |
| 87.5° | 5.9     | 7.8     | 68.3    | 91.7    | 44.9    | 41.0    | 48.8    | 54.6    | 58.5    | 68.3    | 31.2    |
| 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°    | 2899.9  | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 | 2899.9 |
| 2.5°  | 2917.5  | 2925.3 | 2919.4 | 2909.7 | 2907.7 | 2901.9 | 2890.2 | 2890.2 | 2890.2 | 2894.1 | 2890.2 |
| 5°    | 2960.4  | 2966.2 | 2952.6 | 2933.1 | 2911.6 | 2884.3 | 2855.1 | 2837.5 | 2835.6 | 2831.7 | 2821.9 |
| 7.5°  | 3042.3  | 3050.1 | 3018.9 | 2972.1 | 2913.6 | 2847.3 | 2784.9 | 2726.4 | 2699.1 | 2677.6 | 2677.6 |
| 10°   | 3161.3  | 3169.1 | 3106.7 | 3022.8 | 2905.8 | 2771.2 | 2623.0 | 2488.4 | 2383.1 | 2334.4 | 2322.7 |
| 12.5° | 3303.6  | 3307.5 | 3204.2 | 3057.9 | 2864.8 | 2605.5 | 2289.5 | 1995.1 | 1790.3 | 1696.7 | 1686.9 |
| 15°   | 3459.6  | 3432.3 | 3295.8 | 3071.6 | 2747.8 | 2264.2 | 1718.1 | 1357.3 | 1144.8 | 1082.4 | 1105.8 |
| 17.5° | 3617.6  | 3566.9 | 3366.0 | 3050.1 | 2484.5 | 1718.1 | 1154.5 | 926.3  | 860.0  | 842.5  | 842.5  |
| 20°   | 3765.8  | 3695.6 | 3416.7 | 2956.5 | 2028.2 | 1183.8 | 856.1  | 801.5  | 789.8  | 778.1  | 780.1  |
| 22.5° | 3914.0  | 3806.8 | 3461.6 | 2747.8 | 1511.4 | 846.4  | 766.4  | 748.9  | 733.3  | 717.7  | 715.7  |
| 25°   | 4058.4  | 3910.1 | 3479.1 | 2361.7 | 1029.7 | 727.4  | 700.1  | 676.7  | 645.5  | 628.0  | 624.1  |
| 27.5° | 4208.5  | 4035.0 | 3467.4 | 1874.1 | 750.8  | 651.4  | 624.1  | 590.9  | 553.9  | 522.7  | 522.7  |
| 30°   | 4497.2  | 4272.9 | 3426.5 | 1347.6 | 631.9  | 573.4  | 538.3  | 485.6  | 444.6  | 413.4  | 411.5  |
| 32.5° | 4891.1  | 4583.0 | 3286.1 | 947.8  | 561.7  | 505.1  | 452.4  | 393.9  | 351.0  | 327.6  | 327.6  |
| 35°   | 5242.1  | 4895.0 | 3022.8 | 698.2  | 505.1  | 438.8  | 374.4  | 317.9  | 284.7  | 269.1  | 263.3  |
| 37.5° | 5776.5  | 5351.3 | 2660.1 | 567.5  | 450.5  | 380.3  | 314.0  | 261.3  | 234.0  | 222.3  | 222.3  |
| 40°   | 6578.0  | 5909.1 | 2215.4 | 497.3  | 397.8  | 323.7  | 261.3  | 220.4  | 198.9  | 185.3  | 185.3  |
| 42.5° | 7572.6  | 6591.7 | 1764.9 | 446.6  | 349.1  | 278.9  | 218.4  | 187.2  | 167.7  | 158.0  | 156.0  |
| 45°   | 8824.6  | 7311.3 | 1359.3 | 399.8  | 310.1  | 237.9  | 185.3  | 158.0  | 138.5  | 132.6  | 134.6  |
| 47.5° | 10131.3 | 7945.1 | 1053.1 | 358.8  | 269.1  | 200.9  | 158.0  | 136.5  | 122.9  | 115.1  | 115.1  |
| 50°   | 11246.8 | 8381.9 | 799.6  | 312.0  | 237.9  | 169.7  | 138.5  | 122.9  | 111.2  | 107.3  | 105.3  |
| 52.5° | 12179.0 | 8508.7 | 612.4  | 271.1  | 208.7  | 146.3  | 122.9  | 111.2  | 101.4  | 95.6   | 95.6   |
| 55°   | 12972.7 | 8397.5 | 479.7  | 228.2  | 175.5  | 126.8  | 109.2  | 99.5   | 87.8   | 81.9   | 80.0   |
| 57.5° | 13436.8 | 8040.7 | 366.6  | 189.2  | 142.4  | 105.3  | 95.6   | 83.9   | 70.2   | 60.5   | 60.5   |
| 60°   | 13670.9 | 7521.9 | 280.8  | 156.0  | 109.2  | 83.9   | 78.0   | 62.4   | 48.8   | 41.0   | 39.0   |
| 62.5° | 13390.0 | 6833.5 | 212.6  | 122.9  | 81.9   | 62.4   | 52.7   | 44.9   | 31.2   | 23.4   | 23.4   |
| 63°   | 13216.5 | 6634.6 | 204.8  | 117.0  | 76.1   | 58.5   | 48.8   | 41.0   | 27.3   | 21.5   | 19.5   |
| 65°   | 12048.3 | 5766.7 | 167.7  | 93.6   | 60.5   | 41.0   | 33.2   | 29.3   | 19.5   | 9.8    | 7.8    |
| 67.5° | 9567.7  | 4411.3 | 132.6  | 70.2   | 42.9   | 29.3   | 19.5   | 17.6   | 5.9    | 0.0    | 0.0    |
| 70°   | 6468.8  | 2849.2 | 103.4  | 50.7   | 29.3   | 17.6   | 9.8    | 7.8    | 2.0    | 0.0    | 0.0    |
| 72.5° | 3373.8  | 1460.7 | 80.0   | 37.1   | 17.6   | 11.7   | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1193.5  | 497.3  | 58.5   | 23.4   | 11.7   | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 360.8   | 185.3  | 37.1   | 17.6   | 7.8    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 126.8   | 68.3   | 21.5   | 11.7   | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 62.4    | 33.2   | 13.7   | 9.8    | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 35.1    | 21.5   | 11.7   | 9.8    | 5.9    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 25.4    | 15.6   | 11.7   | 9.8    | 7.8    | 3.9    | 2.0    | 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)