

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: P533520

Luminaire Tested: **GLAN-SA9A-722-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-722-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26781 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 274  
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



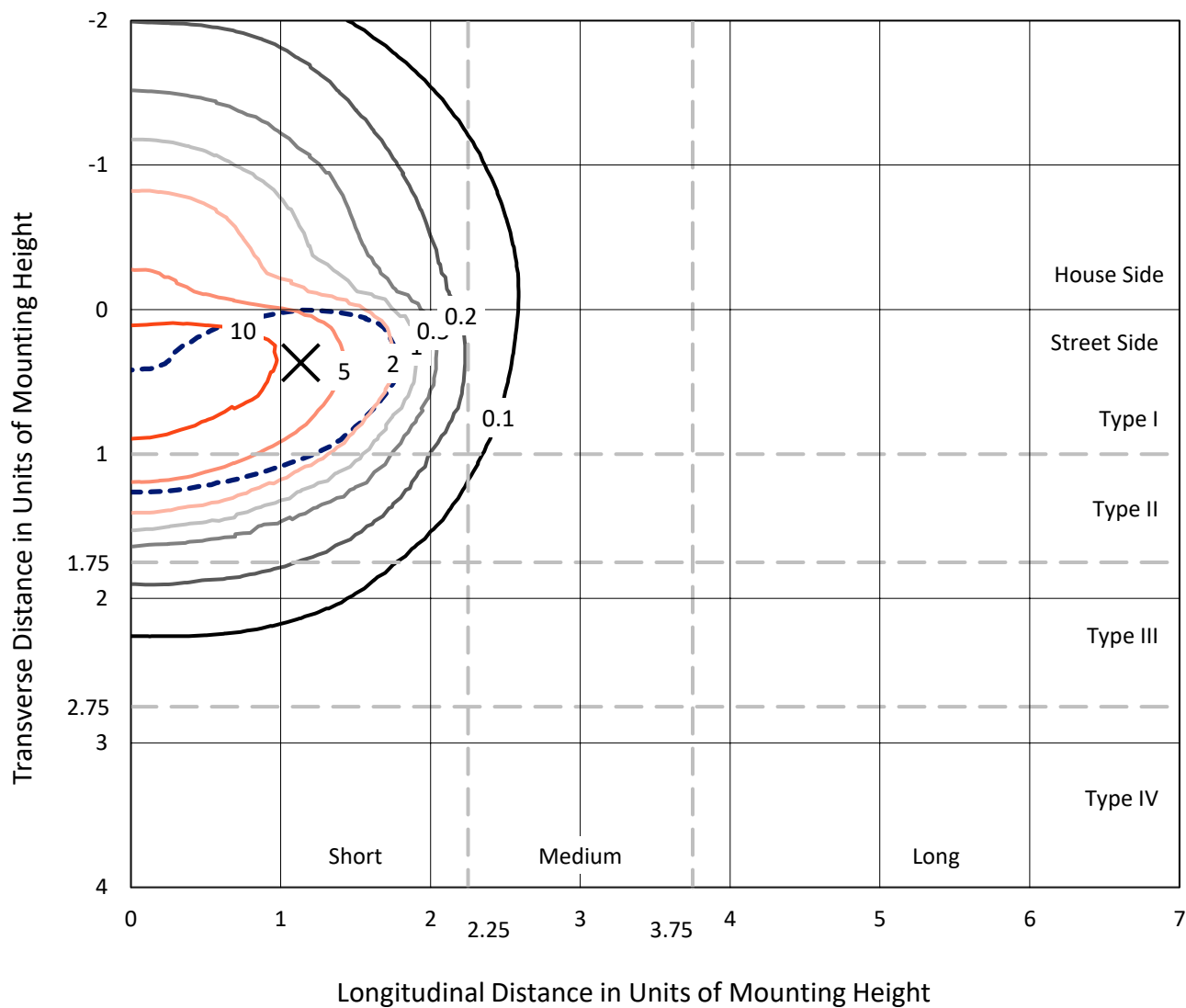
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

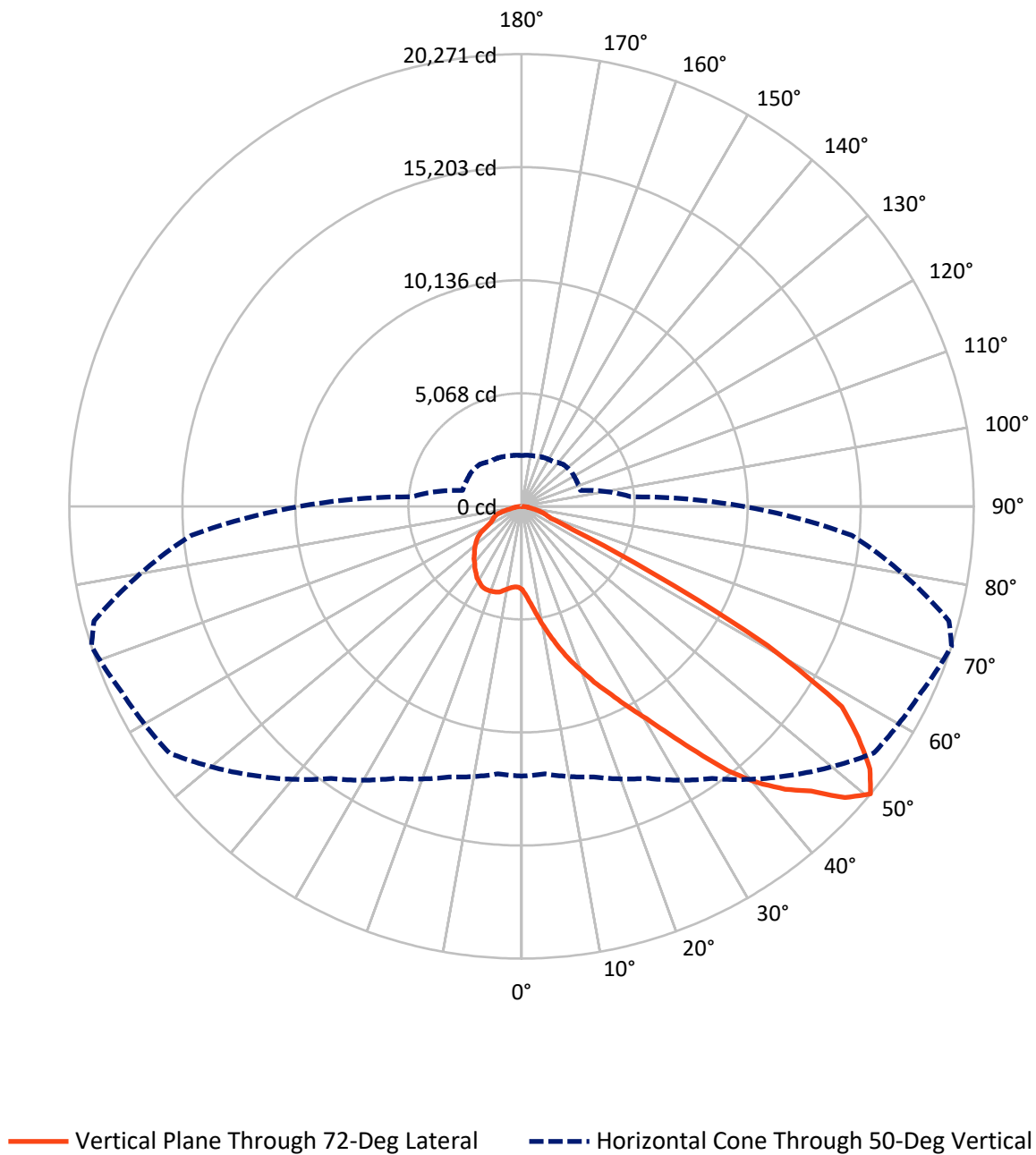


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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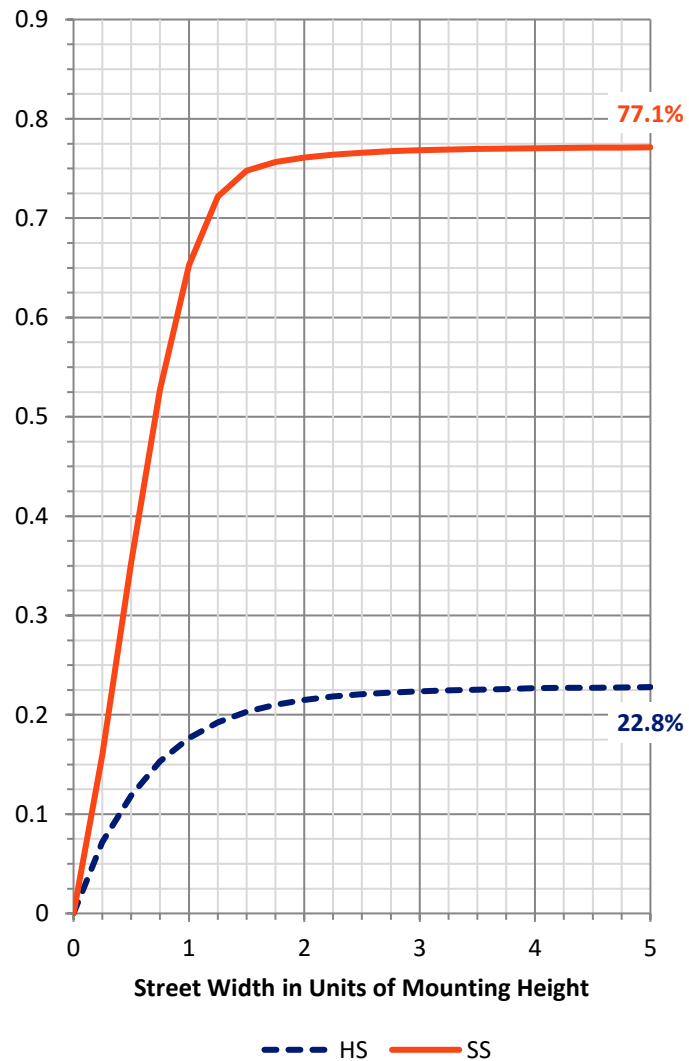
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6135.7   | 0.0    | 6135.7  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 20645.3  | 0.0    | 20645.3 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 26781.0  | 0.0    | 26781.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 438.5   | 1.6       |
| 10°-20°   | 1639.4  | 6.1       |
| 20°-30°   | 3178.6  | 11.9      |
| 30°-40°   | 5265.8  | 19.7      |
| 40°-50°   | 7368.0  | 27.5      |
| 50°-60°   | 6215.9  | 23.2      |
| 60°-70°   | 1894.6  | 7.1       |
| 70°-80°   | 664.7   | 2.5       |
| 80°-90°   | 115.6   | 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°    | 26781.0 | 100.0     |
| 0°-180°   | 26781.0 | 100.0     |

**Coefficient of Utilization**



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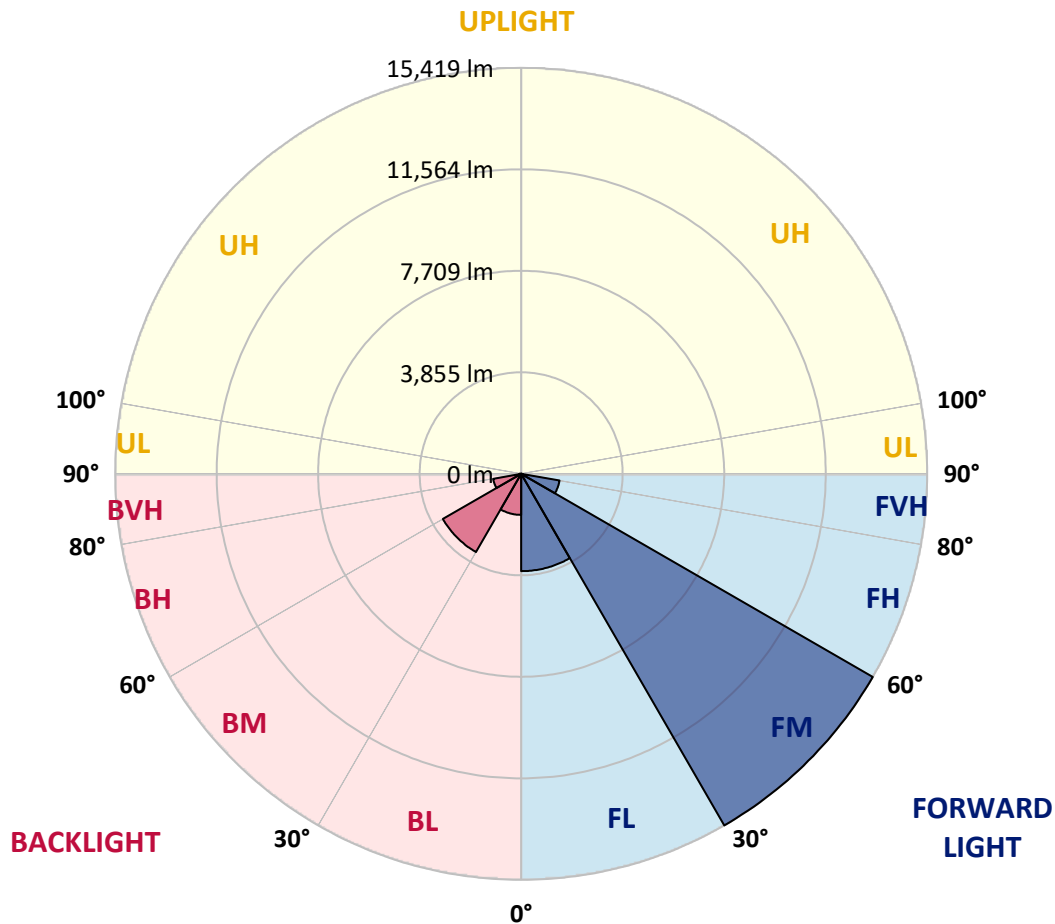
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3696.7  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 15418.5 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 1478.3  | 5.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 51.8    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1559.7  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3431.2  | 12.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1081.0  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 63.8    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  | 3728.1  |
| 2.5°  | 4795.2  | 4765.4  | 4675.9  | 4646.1  | 4540.1  | 4347.8  | 4281.6  | 4086.0  | 4003.2  | 3927.0  | 3837.5  |
| 5°    | 6064.4  | 5925.3  | 5915.3  | 5746.3  | 5501.1  | 5358.6  | 4934.4  | 4649.4  | 4387.6  | 4255.1  | 4009.8  |
| 7.5°  | 6873.0  | 6876.4  | 6876.4  | 6737.2  | 6541.6  | 6180.4  | 5799.3  | 5285.7  | 4891.3  | 4695.8  | 4278.3  |
| 10°   | 7641.9  | 7575.6  | 7539.1  | 7525.9  | 7393.3  | 7042.0  | 6634.4  | 5998.2  | 5458.0  | 5229.3  | 4480.4  |
| 12.5° | 8185.3  | 8129.0  | 8211.9  | 8168.8  | 8072.7  | 7844.0  | 7459.6  | 6733.9  | 6057.8  | 5749.6  | 4805.2  |
| 15°   | 8443.8  | 8483.6  | 8549.9  | 8669.2  | 8626.1  | 8539.9  | 8115.8  | 7489.4  | 6704.0  | 6356.1  | 5093.5  |
| 17.5° | 8841.5  | 8732.1  | 8811.7  | 8960.8  | 9080.1  | 9040.3  | 8798.4  | 8036.2  | 7343.6  | 6916.1  | 5481.2  |
| 20°   | 9119.9  | 9056.9  | 9096.7  | 9269.0  | 9358.5  | 9583.8  | 9457.9  | 8752.0  | 7956.7  | 7506.0  | 5938.5  |
| 22.5° | 9915.2  | 9822.4  | 9693.2  | 9719.7  | 9752.8  | 9911.9  | 9941.7  | 9537.4  | 8669.2  | 8192.0  | 6372.6  |
| 25°   | 10896.1 | 10810.0 | 10657.5 | 10501.8 | 10405.7 | 10375.8 | 10478.6 | 10153.8 | 9351.8  | 8858.1  | 6839.9  |
| 27.5° | 11976.5 | 11830.6 | 11734.5 | 11413.1 | 11154.6 | 11114.8 | 11065.1 | 10889.5 | 10160.4 | 9626.9  | 7366.8  |
| 30°   | 13027.0 | 12911.0 | 12781.7 | 12268.1 | 11999.7 | 11956.6 | 11711.3 | 11761.1 | 11038.6 | 10445.4 | 7963.3  |
| 32.5° | 13822.3 | 13832.2 | 13537.3 | 13149.6 | 12897.7 | 12669.1 | 12579.6 | 12722.1 | 12165.3 | 11688.1 | 8629.4  |
| 35°   | 14465.2 | 14495.0 | 14213.3 | 13862.1 | 13590.3 | 13749.4 | 13709.6 | 13775.9 | 13510.8 | 12927.5 | 9404.9  |
| 37.5° | 15091.5 | 14942.4 | 14640.8 | 14471.8 | 14329.3 | 14591.1 | 14929.1 | 14985.5 | 15035.2 | 14349.2 | 10306.2 |
| 40°   | 15194.3 | 15207.5 | 15031.9 | 15151.2 | 14972.2 | 15366.6 | 16152.0 | 16079.1 | 16281.2 | 15681.4 | 11283.8 |
| 42.5° | 15048.4 | 15078.3 | 15147.9 | 15316.9 | 15747.7 | 16221.6 | 17388.1 | 17089.8 | 17335.0 | 16801.5 | 12234.9 |
| 45°   | 14809.8 | 14687.2 | 14773.4 | 15416.3 | 16161.9 | 17215.7 | 18518.1 | 18286.1 | 18206.6 | 17759.2 | 13368.3 |
| 47.5° | 13669.9 | 13795.8 | 14064.2 | 14856.2 | 15976.3 | 17388.1 | 19320.1 | 19267.0 | 19505.6 | 19190.8 | 14398.9 |
| 50°   | 12089.1 | 12039.4 | 12556.4 | 13447.8 | 14892.7 | 17050.0 | 19277.0 | 19757.5 | 20271.2 | 19833.7 | 14859.6 |
| 52.5° | 9053.6  | 9318.7  | 9762.8  | 10869.6 | 12930.9 | 15207.5 | 18335.8 | 19137.8 | 19555.4 | 19462.6 | 14488.4 |
| 55°   | 5723.1  | 5802.6  | 6071.1  | 7386.7  | 9242.5  | 12205.1 | 15717.9 | 17577.0 | 18322.6 | 18670.5 | 14147.1 |
| 57.5° | 2780.4  | 2631.2  | 2959.3  | 4016.5  | 5338.7  | 8208.5  | 12122.3 | 15310.2 | 16930.7 | 17560.4 | 13404.7 |
| 60°   | 1451.5  | 1507.8  | 1637.1  | 2014.9  | 2760.5  | 4261.7  | 7555.7  | 10203.5 | 12679.0 | 13646.7 | 10160.4 |
| 62.5° | 1202.9  | 1222.8  | 1309.0  | 1497.9  | 1835.9  | 2452.3  | 3857.4  | 4974.2  | 6465.4  | 7337.0  | 5779.5  |
| 65°   | 1020.7  | 1030.6  | 1123.4  | 1249.3  | 1464.7  | 1726.5  | 1985.0  | 2077.8  | 2515.3  | 2581.5  | 2054.6  |
| 67.5° | 851.7   | 861.6   | 961.0   | 1080.3  | 1219.5  | 1289.1  | 1355.4  | 1348.8  | 1398.5  | 1378.6  | 1375.3  |
| 70°   | 656.2   | 666.1   | 768.8   | 894.8   | 964.3   | 924.6   | 1130.0  | 1176.4  | 1196.3  | 1212.9  | 1239.4  |
| 72.5° | 473.9   | 493.8   | 573.3   | 662.8   | 626.3   | 719.1   | 931.2   | 1000.8  | 1027.3  | 1037.3  | 1070.4  |
| 75°   | 344.6   | 351.3   | 371.2   | 344.6   | 397.7   | 500.4   | 656.2   | 742.3   | 775.5   | 785.4   | 835.1   |
| 77.5° | 152.4   | 155.8   | 159.1   | 198.8   | 255.2   | 311.5   | 391.0   | 460.6   | 507.0   | 520.3   | 533.5   |
| 80°   | 79.5    | 82.8    | 102.7   | 135.9   | 182.3   | 228.7   | 285.0   | 324.8   | 354.6   | 357.9   | 371.2   |
| 82.5° | 49.7    | 53.0    | 72.9    | 96.1    | 129.2   | 169.0   | 208.8   | 241.9   | 265.1   | 268.4   | 271.7   |
| 85°   | 23.2    | 29.8    | 43.1    | 59.7    | 86.2    | 109.4   | 112.7   | 96.1    | 102.7   | 106.0   | 99.4    |
| 87.5° | 6.6     | 9.9     | 13.3    | 9.9     | 13.3    | 13.3    | 16.6    | 19.9    | 19.9    | 19.9    | 23.2    |
| 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°    | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 | 3728.1 |
| 2.5°  | 3787.8 | 3758.0 | 3642.0 | 3598.9 | 3486.2 | 3506.1 | 3446.5 | 3443.1 | 3429.9 | 3426.6 | 3423.3 |
| 5°    | 3880.6 | 3787.8 | 3648.6 | 3542.6 | 3479.6 | 3473.0 | 3429.9 | 3429.9 | 3443.1 | 3453.1 | 3429.9 |
| 7.5°  | 4033.0 | 3927.0 | 3691.7 | 3592.3 | 3535.9 | 3526.0 | 3496.2 | 3473.0 | 3502.8 | 3492.9 | 3466.3 |
| 10°   | 4208.7 | 4023.1 | 3774.5 | 3688.4 | 3595.6 | 3572.4 | 3572.4 | 3582.3 | 3532.6 | 3549.2 | 3522.7 |
| 12.5° | 4404.2 | 4155.6 | 3880.6 | 3781.2 | 3671.8 | 3658.6 | 3651.9 | 3579.0 | 3605.5 | 3592.3 | 3526.0 |
| 15°   | 4652.7 | 4308.1 | 4016.5 | 3847.4 | 3754.7 | 3695.0 | 3608.8 | 3595.6 | 3579.0 | 3545.9 | 3516.1 |
| 17.5° | 4921.1 | 4473.8 | 4079.4 | 3867.3 | 3728.1 | 3685.1 | 3618.8 | 3549.2 | 3499.5 | 3506.1 | 3482.9 |
| 20°   | 5149.8 | 4626.2 | 4102.6 | 3887.2 | 3708.3 | 3625.4 | 3522.7 | 3479.6 | 3426.6 | 3423.3 | 3420.0 |
| 22.5° | 5421.5 | 4831.7 | 4135.8 | 3834.2 | 3648.6 | 3562.4 | 3492.9 | 3416.6 | 3380.2 | 3333.8 | 3357.0 |
| 25°   | 5746.3 | 4911.2 | 4142.4 | 3804.4 | 3605.5 | 3453.1 | 3416.6 | 3333.8 | 3320.5 | 3254.3 | 3267.5 |
| 27.5° | 5981.6 | 4954.3 | 4089.4 | 3711.6 | 3506.1 | 3390.1 | 3323.8 | 3264.2 | 3241.0 | 3191.3 | 3178.0 |
| 30°   | 6296.4 | 5020.6 | 3976.7 | 3595.6 | 3406.7 | 3277.5 | 3237.7 | 3224.4 | 3158.2 | 3105.1 | 3098.5 |
| 32.5° | 6654.3 | 5063.6 | 3903.8 | 3476.3 | 3304.0 | 3204.5 | 3224.4 | 3161.5 | 3078.6 | 3032.2 | 3019.0 |
| 35°   | 6939.3 | 5080.2 | 3721.5 | 3340.4 | 3234.4 | 3171.4 | 3148.2 | 3135.0 | 3015.7 | 2972.6 | 2939.4 |
| 37.5° | 7373.4 | 5043.8 | 3569.1 | 3244.3 | 3158.2 | 3135.0 | 3115.1 | 3025.6 | 2889.7 | 2826.8 | 2780.4 |
| 40°   | 7880.5 | 5033.8 | 3373.6 | 3108.4 | 3085.2 | 3111.8 | 3052.1 | 2912.9 | 2724.0 | 2654.4 | 2621.3 |
| 42.5° | 8367.6 | 5103.4 | 3250.9 | 3035.5 | 3005.7 | 3015.7 | 2932.8 | 2724.0 | 2631.2 | 2591.5 | 2538.5 |
| 45°   | 9182.8 | 5249.2 | 3048.8 | 2922.9 | 2909.6 | 2903.0 | 2803.6 | 2584.8 | 2531.8 | 2482.1 | 2472.2 |
| 47.5° | 9918.5 | 5153.1 | 2919.6 | 2806.9 | 2820.1 | 2783.7 | 2571.6 | 2502.0 | 2442.3 | 2392.6 | 2376.1 |
| 50°   | 9961.6 | 4924.5 | 2737.3 | 2717.4 | 2720.7 | 2657.8 | 2455.6 | 2409.2 | 2333.0 | 2299.9 | 2276.7 |
| 52.5° | 9736.3 | 4550.0 | 2568.3 | 2574.9 | 2584.8 | 2482.1 | 2313.1 | 2280.0 | 2217.0 | 2170.6 | 2157.4 |
| 55°   | 9103.3 | 3966.7 | 2402.6 | 2429.1 | 2455.6 | 2260.1 | 2207.1 | 2124.2 | 2074.5 | 2008.2 | 2011.5 |
| 57.5° | 8019.7 | 3194.6 | 2170.6 | 2213.7 | 2270.0 | 2054.6 | 2014.9 | 1912.1 | 1839.2 | 1786.2 | 1779.6 |
| 60°   | 5375.2 | 2273.3 | 1822.6 | 1839.2 | 1965.1 | 1879.0 | 1875.7 | 1772.9 | 1673.5 | 1627.1 | 1600.6 |
| 62.5° | 3171.4 | 1736.5 | 1574.1 | 1557.5 | 1554.2 | 1603.9 | 1686.8 | 1650.3 | 1521.1 | 1431.6 | 1458.1 |
| 65°   | 1660.3 | 1501.2 | 1464.7 | 1408.4 | 1375.3 | 1362.0 | 1425.0 | 1441.5 | 1355.4 | 1259.3 | 1252.7 |
| 67.5° | 1395.2 | 1395.2 | 1365.3 | 1345.4 | 1299.1 | 1242.7 | 1202.9 | 1149.9 | 1136.7 | 1110.2 | 1077.0 |
| 70°   | 1269.2 | 1302.4 | 1292.4 | 1246.0 | 1206.3 | 1143.3 | 1040.6 | 954.4  | 871.6  | 841.7  | 861.6  |
| 72.5° | 1106.8 | 1140.0 | 1140.0 | 1116.8 | 1063.8 | 967.7  | 868.2  | 768.8  | 699.2  | 646.2  | 639.6  |
| 75°   | 851.7  | 868.2  | 908.0  | 881.5  | 811.9  | 752.3  | 649.5  | 546.8  | 480.5  | 430.8  | 420.9  |
| 77.5° | 543.5  | 570.0  | 570.0  | 566.7  | 517.0  | 460.6  | 394.4  | 321.4  | 271.7  | 235.3  | 225.3  |
| 80°   | 361.2  | 377.8  | 391.0  | 377.8  | 344.6  | 301.6  | 251.9  | 202.1  | 165.7  | 135.9  | 129.2  |
| 82.5° | 265.1  | 285.0  | 294.9  | 281.7  | 248.5  | 215.4  | 179.0  | 142.5  | 106.0  | 82.8   | 76.2   |
| 85°   | 102.7  | 106.0  | 119.3  | 142.5  | 139.2  | 135.9  | 109.4  | 79.5   | 59.7   | 43.1   | 39.8   |
| 87.5° | 26.5   | 23.2   | 26.5   | 26.5   | 23.2   | 19.9   | 19.9   | 19.9   | 19.9   | 9.9    | 13.3   |
| 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)