

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: P522928

Luminaire Tested: **GLAN-SA9D-722-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-722-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51592 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

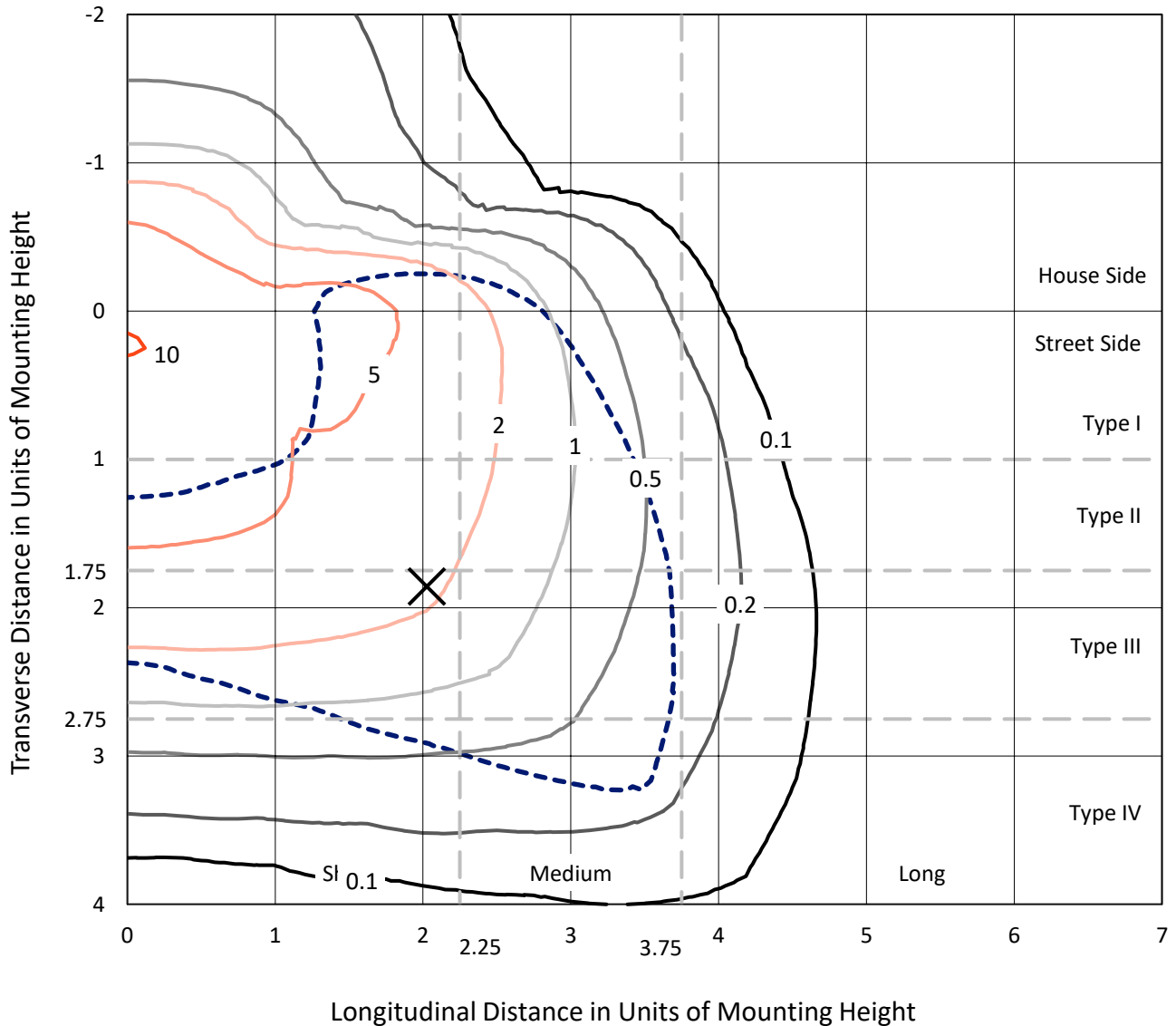
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

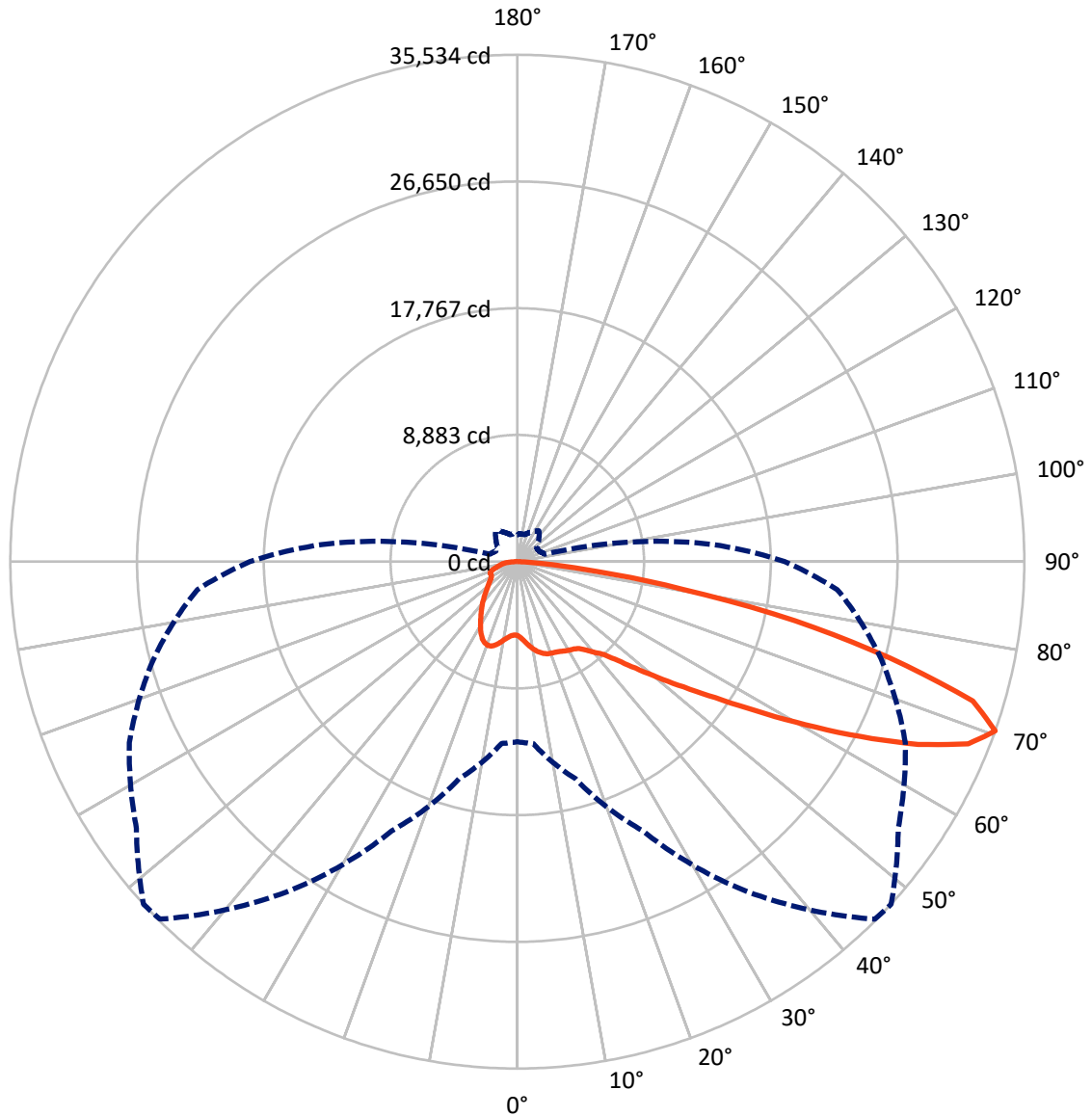
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11681.4  | 0.0    | 11681.4 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 39910.6  | 0.0    | 39910.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 51592.0  | 0.0    | 51592.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 533.9   | 1.0       |
| 10°-20°   | 1784.8  | 3.5       |
| 20°-30°   | 2968.0  | 5.8       |
| 30°-40°   | 4206.8  | 8.2       |
| 40°-50°   | 6210.1  | 12.0      |
| 50°-60°   | 10756.1 | 20.8      |
| 60°-70°   | 15193.3 | 29.4      |
| 70°-80°   | 8734.0  | 16.9      |
| 80°-90°   | 1205.1  | 2.3       |
| 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°    | 51592.0 | 100.0     |
| 0°-180°   | 51592.0 | 100.0     |

**Coefficient of Utilization**



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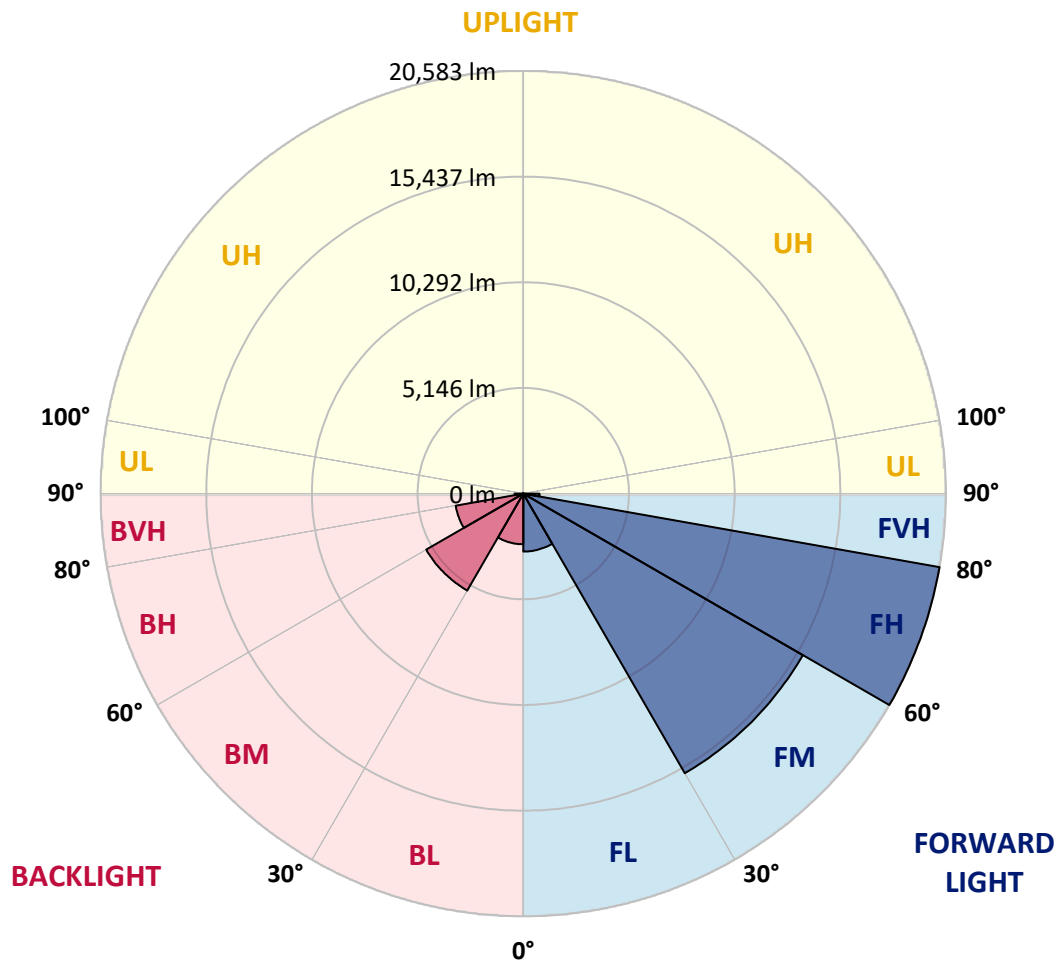
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2821.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 15719.1 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 20583.1 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 787.2   | 1.5       |                         |      | G5      |
| BL   | (0°-30°)    | 2465.4  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5453.9  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3344.2  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 417.9   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  | 5179.2  |
| 2.5°  | 5513.3  | 5493.9  | 5491.2  | 5449.8  | 5427.7  | 5386.3  | 5369.7  | 5331.1  | 5284.1  | 5237.2  | 5193.0  |
| 5°    | 5946.7  | 5946.7  | 5927.4  | 5869.4  | 5778.3  | 5684.4  | 5643.0  | 5568.5  | 5436.0  | 5328.3  | 5237.2  |
| 7.5°  | 6391.2  | 6396.7  | 6358.1  | 6272.5  | 6142.7  | 5990.9  | 5952.2  | 5841.8  | 5654.1  | 5496.7  | 5361.4  |
| 10°   | 6774.9  | 6774.9  | 6722.5  | 6606.5  | 6443.7  | 6278.0  | 6239.4  | 6115.1  | 5905.3  | 5709.3  | 5532.6  |
| 12.5° | 7067.6  | 7067.6  | 6998.6  | 6846.7  | 6670.0  | 6521.0  | 6476.8  | 6358.1  | 6162.1  | 5944.0  | 5720.3  |
| 15°   | 7258.1  | 7244.3  | 7167.0  | 6995.8  | 6824.6  | 6694.9  | 6664.5  | 6565.1  | 6385.7  | 6164.8  | 5913.6  |
| 17.5° | 7266.4  | 7260.8  | 7186.3  | 7042.7  | 6893.7  | 6805.3  | 6786.0  | 6719.7  | 6578.9  | 6369.1  | 6104.1  |
| 20°   | 7106.2  | 7117.3  | 7067.6  | 6965.4  | 6893.7  | 6855.0  | 6846.7  | 6824.6  | 6725.3  | 6529.2  | 6264.2  |
| 22.5° | 6935.1  | 6954.4  | 6907.5  | 6852.2  | 6846.7  | 6885.4  | 6890.9  | 6896.4  | 6832.9  | 6642.4  | 6399.5  |
| 25°   | 6893.7  | 6907.5  | 6860.5  | 6810.8  | 6841.2  | 6943.4  | 6965.4  | 6987.5  | 6937.8  | 6777.7  | 6559.6  |
| 27.5° | 7103.5  | 7092.4  | 7001.3  | 6893.7  | 6913.0  | 7051.0  | 7081.4  | 7106.2  | 7081.4  | 6943.4  | 6758.4  |
| 30°   | 7697.0  | 7661.2  | 7478.9  | 7164.2  | 7064.8  | 7161.5  | 7191.8  | 7260.8  | 7260.8  | 7158.7  | 6973.7  |
| 32.5° | 8690.9  | 8621.9  | 8287.8  | 7669.4  | 7324.3  | 7266.4  | 7296.7  | 7409.9  | 7467.9  | 7387.8  | 7186.3  |
| 35°   | 9897.4  | 9825.6  | 9348.0  | 8517.0  | 7799.2  | 7476.2  | 7467.9  | 7594.9  | 7749.5  | 7570.0  | 7307.8  |
| 37.5° | 11109.4 | 11034.8 | 10460.6 | 9527.4  | 8492.1  | 7917.9  | 7868.2  | 7912.4  | 7978.6  | 7650.1  | 7476.2  |
| 40°   | 12321.3 | 12233.0 | 11730.5 | 10656.6 | 9339.7  | 8503.2  | 8373.4  | 8174.7  | 8147.1  | 7912.4  | 7802.0  |
| 42.5° | 13522.3 | 13442.2 | 13188.2 | 11923.8 | 10355.7 | 9074.7  | 8875.9  | 8533.6  | 8638.5  | 8497.7  | 8401.0  |
| 45°   | 14734.3 | 14739.8 | 14469.2 | 13345.6 | 11581.5 | 10129.3 | 9861.5  | 9325.9  | 9574.4  | 9521.9  | 9577.1  |
| 47.5° | 15808.2 | 15794.4 | 15697.8 | 14726.0 | 13102.6 | 11487.6 | 11142.5 | 10521.3 | 10946.5 | 11139.7 | 11562.1 |
| 50°   | 16849.0 | 16840.7 | 16846.3 | 16291.3 | 14869.5 | 13102.6 | 12721.7 | 12070.1 | 13028.1 | 13699.0 | 14455.4 |
| 52.5° | 18339.8 | 18386.8 | 18052.7 | 17906.4 | 17017.4 | 15010.3 | 14590.7 | 13917.1 | 15488.0 | 16545.3 | 18022.3 |
| 55°   | 19836.2 | 19797.5 | 19535.3 | 19687.1 | 19264.7 | 17268.7 | 16829.7 | 16294.1 | 18226.6 | 19383.4 | 21603.1 |
| 57.5° | 20716.9 | 20730.7 | 20998.5 | 21741.1 | 22039.3 | 20084.6 | 19687.1 | 19273.0 | 21304.9 | 22124.9 | 24789.0 |
| 60°   | 21509.2 | 21572.7 | 22343.0 | 23745.4 | 24554.3 | 23543.9 | 23190.5 | 22787.4 | 24129.2 | 24455.0 | 27555.3 |
| 62.5° | 21757.7 | 21953.7 | 23298.2 | 25396.4 | 27005.9 | 27447.6 | 27008.7 | 26119.7 | 26818.2 | 26691.2 | 29429.9 |
| 65°   | 20518.1 | 20785.9 | 23196.0 | 26014.8 | 29195.2 | 31152.6 | 30873.8 | 29222.8 | 29109.6 | 28344.9 | 29736.3 |
| 67.5° | 17254.9 | 17522.6 | 20617.5 | 24717.2 | 30100.7 | 34360.6 | 34081.8 | 31486.7 | 30501.1 | 28499.5 | 27417.3 |
| 70°   | 12625.0 | 12793.4 | 15753.0 | 20810.7 | 28281.4 | 35437.3 | 35533.9 | 32591.0 | 30004.1 | 26398.5 | 22511.4 |
| 72.5° | 7274.6  | 7647.3  | 9720.7  | 14640.4 | 23104.9 | 32715.2 | 33386.1 | 30294.0 | 26862.4 | 22022.7 | 15739.2 |
| 75°   | 3128.0  | 3136.2  | 4494.5  | 8075.3  | 15648.1 | 26296.4 | 26945.2 | 25112.0 | 21095.1 | 15228.4 | 8403.8  |
| 77.5° | 1488.1  | 1515.7  | 1976.7  | 3605.6  | 8613.6  | 18168.7 | 19919.0 | 17740.7 | 13491.9 | 7316.1  | 3174.9  |
| 80°   | 966.3   | 985.6   | 1209.2  | 1789.0  | 4224.0  | 10535.1 | 11755.4 | 10234.2 | 5952.2  | 2614.5  | 1369.3  |
| 82.5° | 585.3   | 590.8   | 808.9   | 1093.3  | 2324.6  | 4770.6  | 5623.7  | 4442.1  | 2539.9  | 1565.4  | 806.1   |
| 85°   | 356.1   | 358.9   | 491.4   | 676.4   | 1410.8  | 1648.2  | 1692.4  | 1678.6  | 1490.8  | 1024.2  | 430.7   |
| 87.5° | 171.2   | 176.7   | 254.0   | 320.3   | 554.9   | 510.7   | 483.1   | 560.4   | 704.0   | 552.2   | 185.0   |
| 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°    | 5179.2  | 5179.2  | 5179.2 | 5179.2 | 5179.2 | 5179.2 | 5179.2 | 5179.2 | 5179.2 | 5179.2 | 5179.2 |
| 2.5°  | 5173.7  | 5165.4  | 5146.1 | 5137.8 | 5132.3 | 5135.0 | 5132.3 | 5132.3 | 5135.0 | 5135.0 | 5135.0 |
| 5°    | 5198.5  | 5184.7  | 5154.4 | 5154.4 | 5170.9 | 5209.6 | 5245.5 | 5273.1 | 5303.5 | 5300.7 | 5300.7 |
| 7.5°  | 5306.2  | 5281.4  | 5245.5 | 5256.5 | 5297.9 | 5358.7 | 5422.2 | 5482.9 | 5543.6 | 5549.2 | 5546.4 |
| 10°   | 5463.6  | 5438.7  | 5400.1 | 5413.9 | 5480.1 | 5571.2 | 5651.3 | 5739.7 | 5805.9 | 5825.2 | 5819.7 |
| 12.5° | 5643.0  | 5593.3  | 5560.2 | 5598.9 | 5703.8 | 5825.2 | 5902.5 | 5968.8 | 6015.7 | 6043.3 | 6032.3 |
| 15°   | 5825.2  | 5778.3  | 5739.7 | 5819.7 | 5946.7 | 6059.9 | 6098.6 | 6109.6 | 6117.9 | 6145.5 | 6140.0 |
| 17.5° | 6001.9  | 5938.4  | 5924.6 | 6029.5 | 6151.0 | 6200.7 | 6178.6 | 6131.7 | 6095.8 | 6117.9 | 6115.1 |
| 20°   | 6159.3  | 6109.6  | 6104.1 | 6209.0 | 6255.9 | 6209.0 | 6115.1 | 6032.3 | 5968.8 | 5974.3 | 5971.6 |
| 22.5° | 6308.4  | 6269.7  | 6275.2 | 6319.4 | 6244.9 | 6084.8 | 5930.1 | 5817.0 | 5747.9 | 5761.7 | 5770.0 |
| 25°   | 6474.0  | 6435.4  | 6449.2 | 6377.4 | 6131.7 | 5852.8 | 5629.2 | 5532.6 | 5505.0 | 5532.6 | 5551.9 |
| 27.5° | 6689.4  | 6664.5  | 6656.2 | 6380.2 | 5930.1 | 5510.5 | 5256.5 | 5220.6 | 5245.5 | 5306.2 | 5336.6 |
| 30°   | 6921.3  | 6921.3  | 6877.1 | 6333.2 | 5654.1 | 5099.2 | 4878.3 | 4883.8 | 4969.4 | 5055.0 | 5085.3 |
| 32.5° | 7144.9  | 7191.8  | 7053.8 | 6206.2 | 5297.9 | 4698.8 | 4530.4 | 4536.0 | 4610.5 | 4715.4 | 4743.0 |
| 35°   | 7329.9  | 7465.1  | 7205.6 | 5974.3 | 4878.3 | 4362.0 | 4235.0 | 4160.5 | 4163.3 | 4243.3 | 4265.4 |
| 37.5° | 7583.9  | 7835.1  | 7294.0 | 5629.2 | 4431.0 | 4074.9 | 3931.3 | 3801.6 | 3716.0 | 3682.9 | 3682.9 |
| 40°   | 8025.6  | 8395.5  | 7316.1 | 5118.5 | 4008.6 | 3801.6 | 3597.3 | 3442.7 | 3277.0 | 3128.0 | 3100.4 |
| 42.5° | 8773.7  | 9240.3  | 7271.9 | 4530.4 | 3627.7 | 3500.7 | 3301.9 | 3111.4 | 2882.3 | 2672.4 | 2655.9 |
| 45°   | 10098.9 | 10339.1 | 7153.2 | 3920.3 | 3288.1 | 3210.8 | 3017.5 | 2810.5 | 2567.5 | 2379.8 | 2366.0 |
| 47.5° | 12222.0 | 11882.4 | 6995.8 | 3379.2 | 2978.9 | 2956.8 | 2807.7 | 2567.5 | 2324.6 | 2194.8 | 2181.0 |
| 50°   | 15322.3 | 14311.9 | 6973.7 | 2987.2 | 2730.4 | 2741.5 | 2620.0 | 2399.1 | 2186.5 | 2078.9 | 2062.3 |
| 52.5° | 19054.9 | 17246.6 | 7120.0 | 2711.1 | 2512.3 | 2553.7 | 2493.0 | 2288.7 | 2101.0 | 2009.8 | 1993.3 |
| 55°   | 22677.0 | 19885.9 | 7208.4 | 2495.7 | 2308.0 | 2385.3 | 2393.6 | 2222.4 | 2051.3 | 1960.2 | 1949.1 |
| 57.5° | 25617.2 | 21873.6 | 6816.4 | 2299.7 | 2131.3 | 2250.0 | 2310.8 | 2183.8 | 2026.4 | 1957.4 | 1946.3 |
| 60°   | 27663.0 | 22812.3 | 5701.0 | 2125.8 | 2001.6 | 2142.4 | 2280.4 | 2186.5 | 2087.1 | 2095.4 | 2101.0 |
| 62.5° | 28314.5 | 22395.4 | 4276.4 | 1996.0 | 1913.2 | 2106.5 | 2330.1 | 2299.7 | 2197.6 | 2261.1 | 2272.1 |
| 65°   | 27235.1 | 20672.7 | 3100.4 | 1893.9 | 1835.9 | 2131.3 | 2479.2 | 2382.5 | 2158.9 | 2205.9 | 2205.9 |
| 67.5° | 23621.2 | 17809.8 | 2412.9 | 1800.0 | 1747.6 | 2178.3 | 2628.3 | 2374.3 | 2067.8 | 2123.0 | 2073.3 |
| 70°   | 18737.4 | 13776.3 | 2009.8 | 1695.1 | 1653.7 | 2109.2 | 2642.1 | 2288.7 | 1960.2 | 1971.2 | 1877.3 |
| 72.5° | 12434.5 | 9058.1  | 1728.2 | 1595.7 | 1510.1 | 1896.7 | 2528.9 | 2178.3 | 1855.2 | 1791.7 | 1697.9 |
| 75°   | 6093.0  | 4516.6  | 1507.4 | 1471.5 | 1322.4 | 1650.9 | 2374.3 | 2073.3 | 1742.0 | 1642.7 | 1590.2 |
| 77.5° | 2360.5  | 1921.5  | 1286.5 | 1314.1 | 1151.2 | 1454.9 | 2170.0 | 1924.3 | 1593.0 | 1457.7 | 1416.3 |
| 80°   | 1145.7  | 1090.5  | 1054.6 | 1096.0 | 946.9  | 1239.6 | 1982.2 | 1794.5 | 1454.9 | 1305.8 | 1245.1 |
| 82.5° | 712.3   | 673.6   | 808.9  | 853.1  | 728.8  | 1131.9 | 1880.1 | 1684.1 | 1281.0 | 1082.2 | 1032.5 |
| 85°   | 361.7   | 386.5   | 541.1  | 582.5  | 521.8  | 900.0  | 1548.8 | 1264.4 | 924.9  | 767.5  | 773.0  |
| 87.5° | 138.0   | 185.0   | 284.4  | 306.4  | 278.8  | 474.9  | 853.1  | 737.1  | 593.6  | 403.1  | 372.7  |
| 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)