

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: P451574

Luminaire Tested: **GLAN-SA2C-722-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451574  
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-SA2C-722-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1050mA 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: 7630 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108  
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

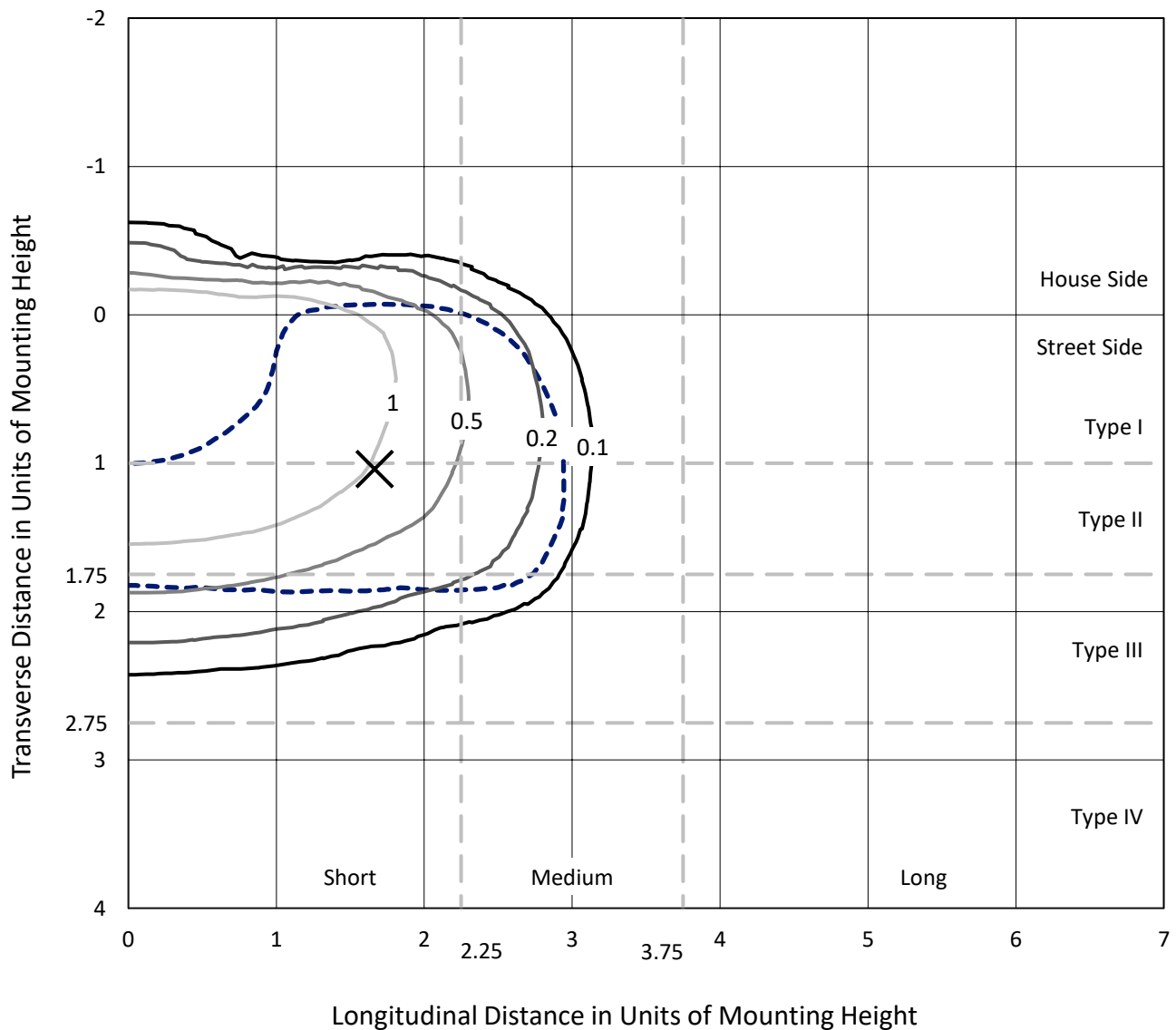


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

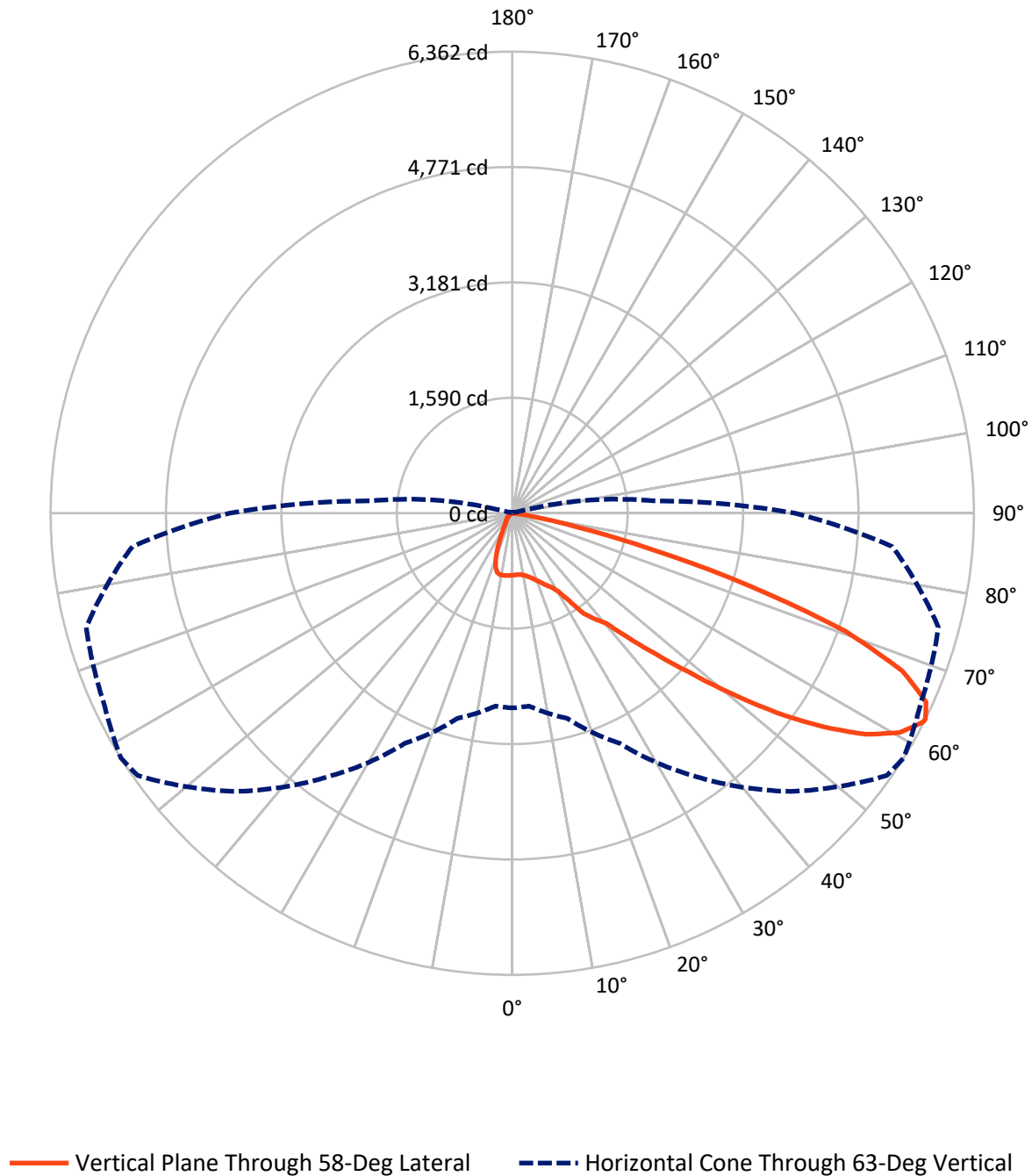


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 790.0    | 0.0    | 790.0  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 6840.0   | 0.0    | 6840.0 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 7630.0   | 0.0    | 7630.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.0   | 1.0       |
| 10°-20°   | 217.8  | 2.9       |
| 20°-30°   | 378.0  | 5.0       |
| 30°-40°   | 694.6  | 9.1       |
| 40°-50°   | 1307.6 | 17.1      |
| 50°-60°   | 2236.5 | 29.3      |
| 60°-70°   | 2141.5 | 28.1      |
| 70°-80°   | 546.1  | 7.2       |
| 80°-90°   | 27.9   | 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°    | 7630.0 | 100.0     |
| 0°-180°   | 7630.0 | 100.0     |

**Coefficient of Utilization**



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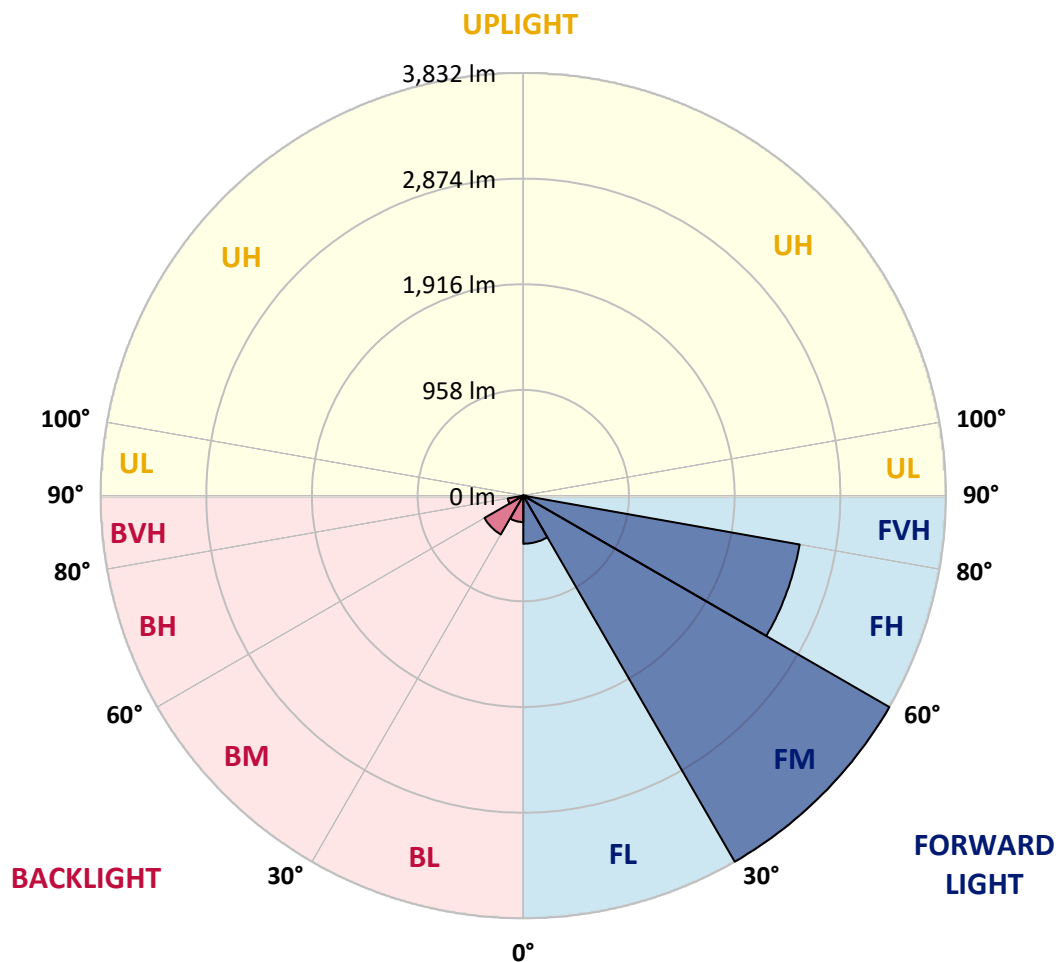
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 436.2  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 3832.4 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 2544.6 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 26.8   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 239.6  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 406.4  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 143.0  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.1    | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  | 854.2  |
| 2.5°  | 833.0  | 835.8  | 838.7  | 839.8  | 843.9  | 847.9  | 850.8  | 850.2  | 854.8  | 857.1  | 857.1  |
| 5°    | 799.6  | 799.6  | 807.1  | 814.0  | 825.5  | 837.0  | 847.9  | 850.2  | 858.8  | 866.8  | 869.7  |
| 7.5°  | 771.5  | 773.2  | 779.0  | 791.6  | 807.1  | 827.2  | 849.0  | 854.2  | 869.1  | 887.0  | 894.4  |
| 10°   | 758.3  | 759.4  | 766.9  | 780.1  | 799.6  | 827.2  | 857.7  | 867.4  | 890.4  | 918.5  | 928.9  |
| 12.5° | 755.4  | 757.1  | 764.6  | 779.5  | 801.9  | 835.3  | 876.6  | 887.0  | 920.3  | 956.5  | 972.0  |
| 15°   | 760.6  | 761.7  | 769.2  | 785.3  | 810.0  | 849.6  | 901.9  | 916.2  | 955.9  | 997.8  | 1017.9 |
| 17.5° | 779.0  | 777.8  | 783.0  | 796.2  | 823.8  | 867.4  | 932.3  | 949.6  | 996.1  | 1053.5 | 1066.8 |
| 20°   | 857.1  | 849.6  | 845.0  | 833.5  | 844.4  | 892.7  | 969.1  | 994.4  | 1051.8 | 1110.4 | 1119.6 |
| 22.5° | 1025.4 | 1008.7 | 976.0  | 931.2  | 896.7  | 927.2  | 1013.3 | 1042.6 | 1116.7 | 1174.2 | 1174.2 |
| 25°   | 1239.7 | 1218.4 | 1185.7 | 1088.0 | 1003.6 | 984.0  | 1063.3 | 1100.1 | 1187.4 | 1245.4 | 1226.5 |
| 27.5° | 1507.9 | 1491.3 | 1427.5 | 1313.8 | 1184.5 | 1083.4 | 1121.3 | 1155.2 | 1250.0 | 1320.1 | 1280.5 |
| 30°   | 1726.2 | 1718.2 | 1665.9 | 1564.2 | 1421.8 | 1274.1 | 1229.3 | 1251.7 | 1333.3 | 1414.3 | 1373.5 |
| 32.5° | 1910.6 | 1910.6 | 1857.2 | 1762.4 | 1629.1 | 1498.2 | 1412.6 | 1428.7 | 1506.8 | 1600.4 | 1524.6 |
| 35°   | 2113.4 | 2106.5 | 2063.4 | 1973.2 | 1823.9 | 1708.4 | 1673.4 | 1695.2 | 1765.9 | 1835.4 | 1648.7 |
| 37.5° | 2326.5 | 2324.2 | 2279.4 | 2192.1 | 2070.3 | 1925.0 | 1842.8 | 1848.6 | 1884.8 | 1927.3 | 1794.0 |
| 40°   | 2558.0 | 2561.5 | 2502.9 | 2448.9 | 2334.0 | 2185.2 | 2027.8 | 1991.6 | 2025.5 | 2145.6 | 2062.3 |
| 42.5° | 2831.5 | 2823.4 | 2798.1 | 2724.6 | 2632.1 | 2543.1 | 2354.1 | 2340.9 | 2370.8 | 2499.4 | 2409.2 |
| 45°   | 3149.1 | 3160.6 | 3117.0 | 3076.2 | 3014.1 | 2940.0 | 2782.1 | 2759.1 | 2791.8 | 2991.7 | 2863.6 |
| 47.5° | 3467.4 | 3456.5 | 3484.6 | 3477.1 | 3510.5 | 3455.3 | 3315.7 | 3268.6 | 3347.3 | 3536.9 | 3348.5 |
| 50°   | 3709.8 | 3721.9 | 3780.5 | 3866.1 | 4009.1 | 4040.1 | 3906.3 | 3890.2 | 3925.2 | 4047.0 | 3782.2 |
| 52.5° | 3867.2 | 3907.4 | 3999.3 | 4219.3 | 4477.3 | 4677.8 | 4576.1 | 4567.5 | 4553.1 | 4585.8 | 4196.9 |
| 55°   | 3970.0 | 4010.8 | 4130.9 | 4454.9 | 4898.9 | 5224.6 | 5229.8 | 5193.0 | 5098.2 | 5074.7 | 4584.7 |
| 57.5° | 3906.8 | 3914.9 | 4086.1 | 4519.2 | 5132.7 | 5614.7 | 5783.6 | 5746.8 | 5571.6 | 5482.6 | 4927.1 |
| 60°   | 3511.6 | 3528.3 | 3766.7 | 4275.6 | 5031.0 | 5742.2 | 6150.6 | 6134.0 | 5942.1 | 5841.6 | 5193.6 |
| 62.5° | 2811.4 | 2859.6 | 3104.9 | 3672.5 | 4558.3 | 5527.4 | 6299.4 | 6346.5 | 6197.2 | 6058.7 | 5277.5 |
| 63°   | 2682.7 | 2667.2 | 2926.3 | 3496.7 | 4433.0 | 5421.1 | 6301.7 | 6361.5 | 6208.7 | 6079.4 | 5254.5 |
| 65°   | 1985.9 | 2032.4 | 2200.7 | 2757.4 | 3689.1 | 4926.5 | 6159.8 | 6265.5 | 6166.2 | 5988.1 | 5000.0 |
| 67.5° | 1115.0 | 1112.7 | 1298.8 | 1804.3 | 2582.2 | 3864.3 | 5569.9 | 5793.3 | 5772.7 | 5373.4 | 4144.7 |
| 70°   | 545.7  | 554.3  | 630.7  | 935.2  | 1497.6 | 2666.0 | 4628.3 | 4869.6 | 4877.1 | 4220.5 | 2865.9 |
| 72.5° | 247.0  | 251.0  | 305.6  | 455.5  | 769.8  | 1419.5 | 3189.3 | 3419.7 | 3377.2 | 2689.6 | 1582.6 |
| 75°   | 130.4  | 139.0  | 168.3  | 229.2  | 371.1  | 585.4  | 1734.8 | 1957.7 | 1868.7 | 1228.7 | 582.5  |
| 77.5° | 96.5   | 99.4   | 114.3  | 145.9  | 198.8  | 228.1  | 748.5  | 890.4  | 834.1  | 444.6  | 193.0  |
| 80°   | 70.7   | 73.0   | 85.0   | 103.4  | 125.2  | 116.0  | 282.1  | 323.4  | 290.1  | 151.1  | 59.2   |
| 82.5° | 43.1   | 43.7   | 62.0   | 77.0   | 78.7   | 64.9   | 93.1   | 100.0  | 104.6  | 85.0   | 32.2   |
| 85°   | 15.5   | 19.5   | 41.9   | 55.7   | 46.5   | 32.7   | 39.1   | 43.1   | 47.1   | 54.0   | 19.0   |
| 87.5° | 1.7    | 2.3    | 20.1   | 27.0   | 13.2   | 12.1   | 14.4   | 16.1   | 17.2   | 20.1   | 9.2    |
| 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°    | 854.2  | 854.2  | 854.2  | 854.2 | 854.2 | 854.2 | 854.2 | 854.2 | 854.2 | 854.2 | 854.2 |
| 2.5°  | 859.4  | 861.7  | 860.0  | 857.1 | 856.5 | 854.8 | 851.3 | 851.3 | 851.3 | 852.5 | 851.3 |
| 5°    | 872.0  | 873.7  | 869.7  | 864.0 | 857.7 | 849.6 | 841.0 | 835.8 | 835.3 | 834.1 | 831.2 |
| 7.5°  | 896.1  | 898.4  | 889.2  | 875.5 | 858.2 | 838.7 | 820.3 | 803.1 | 795.0 | 788.7 | 788.7 |
| 10°   | 931.2  | 933.5  | 915.1  | 890.4 | 855.9 | 816.3 | 772.6 | 733.0 | 702.0 | 687.6 | 684.2 |
| 12.5° | 973.1  | 974.3  | 943.8  | 900.7 | 843.9 | 767.5 | 674.4 | 587.7 | 527.3 | 499.8 | 496.9 |
| 15°   | 1019.1 | 1011.0 | 970.8  | 904.8 | 809.4 | 666.9 | 506.1 | 399.8 | 337.2 | 318.8 | 325.7 |
| 17.5° | 1065.6 | 1050.7 | 991.5  | 898.4 | 731.9 | 506.1 | 340.1 | 272.9 | 253.3 | 248.2 | 248.2 |
| 20°   | 1109.3 | 1088.6 | 1006.4 | 870.9 | 597.4 | 348.7 | 252.2 | 236.1 | 232.7 | 229.2 | 229.8 |
| 22.5° | 1152.9 | 1121.3 | 1019.6 | 809.4 | 445.2 | 249.3 | 225.8 | 220.6 | 216.0 | 211.4 | 210.8 |
| 25°   | 1195.4 | 1151.8 | 1024.8 | 695.7 | 303.3 | 214.3 | 206.2 | 199.3 | 190.1 | 185.0 | 183.8 |
| 27.5° | 1239.7 | 1188.5 | 1021.4 | 552.0 | 221.2 | 191.9 | 183.8 | 174.1 | 163.1 | 154.0 | 154.0 |
| 30°   | 1324.7 | 1258.6 | 1009.3 | 396.9 | 186.1 | 168.9 | 158.5 | 143.0 | 131.0 | 121.8 | 121.2 |
| 32.5° | 1440.7 | 1350.0 | 967.9  | 279.2 | 165.4 | 148.8 | 133.3 | 116.0 | 103.4 | 96.5  | 96.5  |
| 35°   | 1544.1 | 1441.9 | 890.4  | 205.7 | 148.8 | 129.3 | 110.3 | 93.6  | 83.9  | 79.3  | 77.6  |
| 37.5° | 1701.5 | 1576.3 | 783.6  | 167.2 | 132.7 | 112.0 | 92.5  | 77.0  | 68.9  | 65.5  | 65.5  |
| 40°   | 1937.6 | 1740.6 | 652.6  | 146.5 | 117.2 | 95.4  | 77.0  | 64.9  | 58.6  | 54.6  | 54.6  |
| 42.5° | 2230.6 | 1941.6 | 519.9  | 131.5 | 102.8 | 82.1  | 64.3  | 55.1  | 49.4  | 46.5  | 46.0  |
| 45°   | 2599.4 | 2153.6 | 400.4  | 117.8 | 91.3  | 70.1  | 54.6  | 46.5  | 40.8  | 39.1  | 39.6  |
| 47.5° | 2984.3 | 2340.3 | 310.2  | 105.7 | 79.3  | 59.2  | 46.5  | 40.2  | 36.2  | 33.9  | 33.9  |
| 50°   | 3312.9 | 2469.0 | 235.5  | 91.9  | 70.1  | 50.0  | 40.8  | 36.2  | 32.7  | 31.6  | 31.0  |
| 52.5° | 3587.4 | 2506.3 | 180.4  | 79.8  | 61.5  | 43.1  | 36.2  | 32.7  | 29.9  | 28.1  | 28.1  |
| 55°   | 3821.2 | 2473.6 | 141.3  | 67.2  | 51.7  | 37.3  | 32.2  | 29.3  | 25.9  | 24.1  | 23.6  |
| 57.5° | 3958.0 | 2368.5 | 108.0  | 55.7  | 41.9  | 31.0  | 28.1  | 24.7  | 20.7  | 17.8  | 17.8  |
| 60°   | 4026.9 | 2215.7 | 82.7   | 46.0  | 32.2  | 24.7  | 23.0  | 18.4  | 14.4  | 12.1  | 11.5  |
| 62.5° | 3944.2 | 2012.9 | 62.6   | 36.2  | 24.1  | 18.4  | 15.5  | 13.2  | 9.2   | 6.9   | 6.9   |
| 63°   | 3893.1 | 1954.3 | 60.3   | 34.5  | 22.4  | 17.2  | 14.4  | 12.1  | 8.0   | 6.3   | 5.7   |
| 65°   | 3549.0 | 1698.7 | 49.4   | 27.6  | 17.8  | 12.1  | 9.8   | 8.6   | 5.7   | 2.9   | 2.3   |
| 67.5° | 2818.3 | 1299.4 | 39.1   | 20.7  | 12.6  | 8.6   | 5.7   | 5.2   | 1.7   | 0.0   | 0.0   |
| 70°   | 1905.5 | 839.3  | 30.4   | 14.9  | 8.6   | 5.2   | 2.9   | 2.3   | 0.6   | 0.0   | 0.0   |
| 72.5° | 993.8  | 430.3  | 23.6   | 10.9  | 5.2   | 3.4   | 1.7   | 0.6   | 0.0   | 0.0   | 0.0   |
| 75°   | 351.6  | 146.5  | 17.2   | 6.9   | 3.4   | 1.7   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 106.3  | 54.6   | 10.9   | 5.2   | 2.3   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 37.3   | 20.1   | 6.3    | 3.4   | 1.7   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 18.4   | 9.8    | 4.0    | 2.9   | 1.7   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 10.3   | 6.3    | 3.4    | 2.9   | 1.7   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 7.5    | 4.6    | 3.4    | 2.9   | 2.3   | 1.1   | 0.6   | 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)