

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: P320889

Luminaire Tested: **GAN-SA5C-727-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30330 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 279  
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



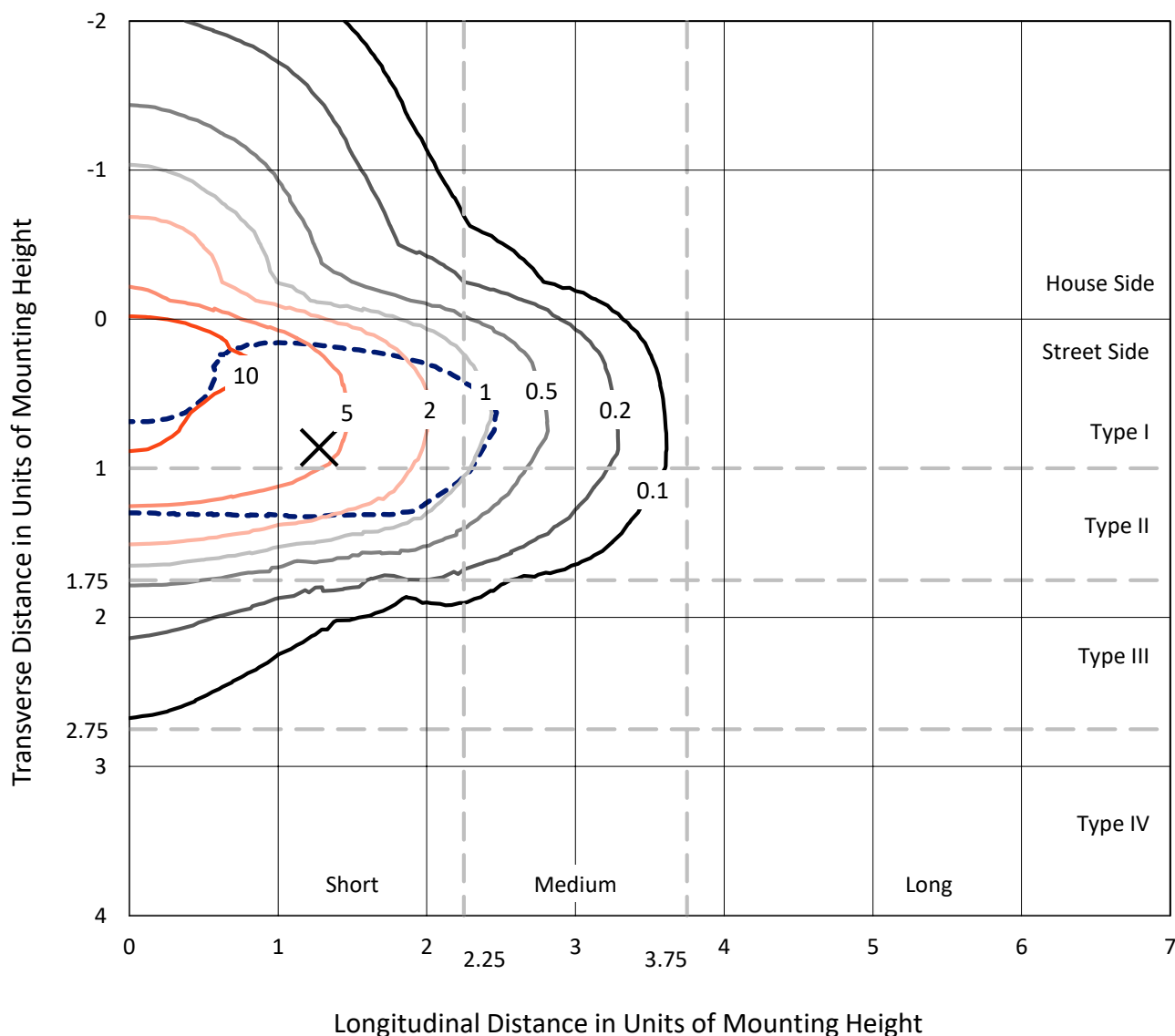
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

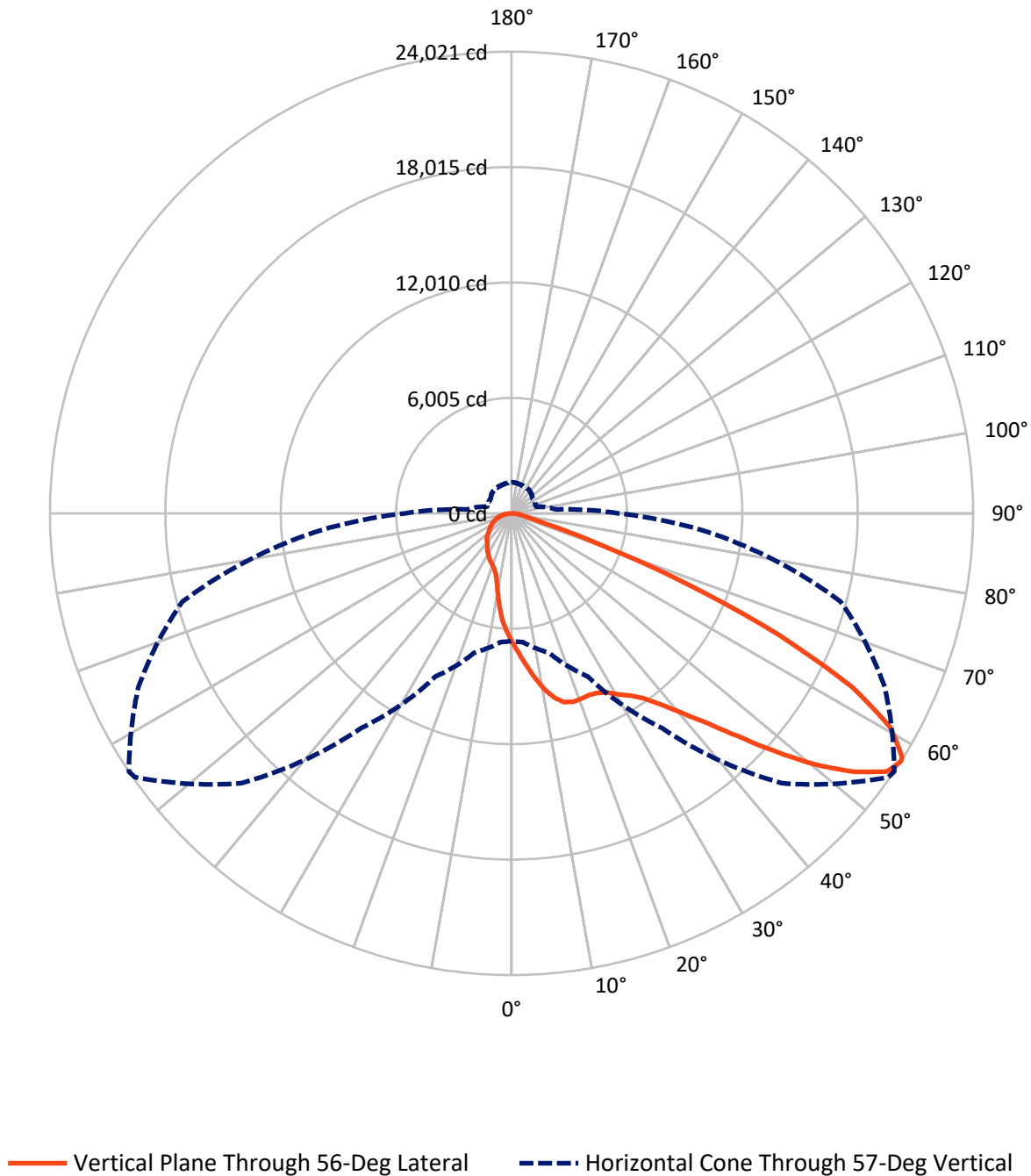


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc

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    | 5228.2   | 0.0    | 5228.2  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 25101.8  | 0.0    | 25101.8 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 30330.0  | 0.0    | 30330.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 642.6   | 2.1       |
| 10°-20°   | 1816.8  | 6.0       |
| 20°-30°   | 2959.3  | 9.8       |
| 30°-40°   | 4423.8  | 14.6      |
| 40°-50°   | 6709.9  | 22.1      |
| 50°-60°   | 7520.6  | 24.8      |
| 60°-70°   | 4442.0  | 14.6      |
| 70°-80°   | 1455.4  | 4.8       |
| 80°-90°   | 359.6   | 1.2       |
| 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°    | 30330.0 | 100.0     |
| 0°-180°   | 30330.0 | 100.0     |

**Coefficient of Utilization**



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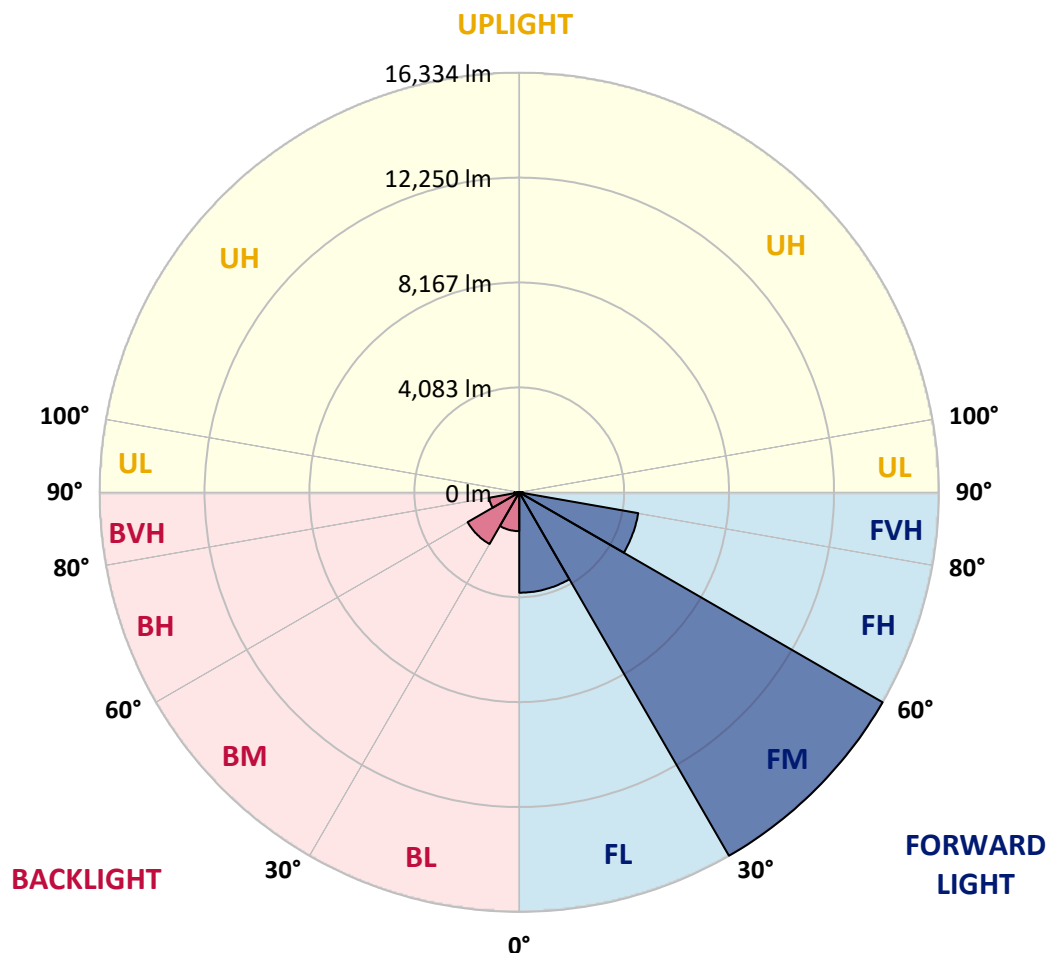
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3907.0  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 16333.7 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 4702.8  | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 158.3   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1511.8  | 5.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2320.6  | 7.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1194.6  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 201.2   | 0.7       |                         |      | G2/225  |
| 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°     | 56°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2  | 6727.2 |
| 2.5°  | 7724.7  | 7795.6  | 7764.3  | 7655.9  | 7572.6  | 7454.8  | 7323.4  | 7283.8  | 7145.2  | 6989.9  | 6803.3 |
| 5°    | 8947.4  | 8912.0  | 8860.9  | 8692.0  | 8513.8  | 8306.4  | 7977.0  | 7924.9  | 7616.3  | 7265.1  | 6894.0 |
| 7.5°  | 9643.7  | 9640.5  | 9610.3  | 9511.3  | 9348.7  | 9077.7  | 8680.6  | 8619.1  | 8153.1  | 7588.2  | 7012.8 |
| 10°   | 9542.6  | 9535.3  | 9585.3  | 9688.5  | 9737.5  | 9681.2  | 9346.6  | 9285.1  | 8712.9  | 7945.7  | 7150.4 |
| 12.5° | 8968.2  | 8972.4  | 9052.7  | 9269.5  | 9564.5  | 9918.8  | 9864.6  | 9834.4  | 9293.4  | 8350.1  | 7317.2 |
| 15°   | 8521.1  | 8530.5  | 8594.0  | 8782.7  | 9130.8  | 9774.0  | 10179.4 | 10189.9 | 9855.3  | 8796.3  | 7512.1 |
| 17.5° | 8325.1  | 8344.9  | 8374.1  | 8506.5  | 8825.4  | 9485.2  | 10254.5 | 10310.8 | 10347.2 | 9259.1  | 7699.7 |
| 20°   | 8387.7  | 8406.4  | 8414.8  | 8499.2  | 8760.8  | 9310.1  | 10202.4 | 10303.5 | 10724.6 | 9694.7  | 7887.3 |
| 22.5° | 8668.0  | 8679.5  | 8684.7  | 8706.6  | 8909.9  | 9360.2  | 10168.0 | 10274.3 | 10997.7 | 10085.6 | 8029.1 |
| 25°   | 9132.9  | 9124.6  | 9091.2  | 9063.1  | 9199.6  | 9558.2  | 10247.2 | 10348.3 | 11219.7 | 10440.0 | 8121.9 |
| 27.5° | 9689.5  | 9679.1  | 9614.5  | 9537.4  | 9615.5  | 9866.7  | 10475.5 | 10555.7 | 11418.8 | 10771.5 | 8168.8 |
| 30°   | 10357.7 | 10330.6 | 10208.6 | 10116.9 | 10147.1 | 10329.5 | 10851.7 | 10924.7 | 11726.3 | 11147.8 | 8214.6 |
| 32.5° | 11130.0 | 11100.9 | 10924.7 | 10772.5 | 10772.5 | 10924.7 | 11239.5 | 11299.9 | 11986.8 | 11573.0 | 8288.6 |
| 35°   | 12097.3 | 12060.8 | 11831.5 | 11576.2 | 11504.2 | 11581.4 | 11767.9 | 11810.7 | 12455.9 | 12108.8 | 8423.1 |
| 37.5° | 13237.6 | 13188.6 | 12891.6 | 12549.7 | 12392.3 | 12388.1 | 12522.6 | 12610.2 | 13205.3 | 12812.4 | 8651.4 |
| 40°   | 14381.1 | 14346.7 | 14087.1 | 13818.2 | 13509.7 | 13410.7 | 13618.1 | 13645.2 | 14185.1 | 13685.8 | 8943.2 |
| 42.5° | 15265.0 | 15258.7 | 15210.8 | 15246.2 | 14930.4 | 14730.3 | 14892.9 | 14914.8 | 15381.7 | 14631.2 | 9253.8 |
| 45°   | 15731.9 | 15742.4 | 15974.8 | 16489.7 | 16606.5 | 16460.5 | 16540.8 | 16547.0 | 16749.3 | 15585.0 | 9538.4 |
| 47.5° | 15357.7 | 15411.9 | 15999.8 | 17151.6 | 18107.4 | 18592.1 | 18458.7 | 18535.8 | 18075.1 | 16404.2 | 9761.5 |
| 50°   | 13899.5 | 13966.2 | 14966.9 | 16856.6 | 18807.9 | 20654.9 | 20585.0 | 20567.3 | 19144.5 | 17004.6 | 9882.4 |
| 52.5° | 12093.2 | 12145.3 | 12970.8 | 15323.3 | 18294.0 | 21795.2 | 22436.2 | 22344.5 | 20095.2 | 17453.9 | 9905.3 |
| 55°   | 9342.4  | 9423.7  | 10214.9 | 12263.1 | 16215.6 | 21359.5 | 23797.5 | 23715.2 | 20961.3 | 17689.4 | 9878.2 |
| 57°   | 6641.8  | 6727.2  | 7513.1  | 9359.1  | 13641.0 | 19851.2 | 23933.0 | 24020.6 | 21429.3 | 17729.1 | 9908.4 |
| 57.5° | 5926.7  | 6014.3  | 6792.9  | 8585.7  | 12838.4 | 19306.1 | 23816.3 | 23962.2 | 21513.8 | 17722.8 | 9925.1 |
| 60°   | 2984.2  | 3017.6  | 3513.7  | 4792.7  | 8115.6  | 15607.9 | 22293.4 | 22669.7 | 21589.9 | 17416.4 | 9997.0 |
| 62.5° | 1855.4  | 1831.4  | 1815.7  | 2207.7  | 3948.4  | 10350.4 | 19150.8 | 19875.2 | 20133.7 | 16674.2 | 9823.0 |
| 65°   | 1631.3  | 1586.4  | 1414.4  | 1383.2  | 1743.8  | 5027.2  | 14421.7 | 15323.3 | 17022.4 | 15504.7 | 9408.1 |
| 67.5° | 1532.2  | 1488.5  | 1294.6  | 1177.8  | 1178.9  | 1992.9  | 8953.6  | 9968.9  | 13260.6 | 13527.4 | 8429.4 |
| 70°   | 1430.1  | 1390.5  | 1209.1  | 1071.5  | 1003.8  | 1103.8  | 4119.3  | 4889.6  | 8644.1  | 10632.8 | 7045.1 |
| 72.5° | 1298.7  | 1271.6  | 1099.7  | 957.9   | 886.0   | 826.6   | 1577.1  | 1862.7  | 5004.2  | 7141.0  | 4892.7 |
| 75°   | 1161.2  | 1136.1  | 989.2   | 853.7   | 766.1   | 650.4   | 888.1   | 956.9   | 2542.3  | 3653.4  | 2408.8 |
| 77.5° | 1010.0  | 995.4   | 879.7   | 754.6   | 684.8   | 538.9   | 628.5   | 661.9   | 1090.3  | 1566.6  | 1208.1 |
| 80°   | 803.6   | 831.8   | 769.2   | 672.3   | 607.7   | 431.5   | 445.1   | 467.0   | 634.8   | 765.1   | 685.9  |
| 82.5° | 523.3   | 572.2   | 602.5   | 546.2   | 500.3   | 339.8   | 320.0   | 329.4   | 413.8   | 467.0   | 298.1  |
| 85°   | 217.8   | 244.9   | 396.1   | 357.5   | 332.5   | 248.1   | 214.7   | 218.9   | 256.4   | 265.8   | 122.0  |
| 87.5° | 96.9    | 103.2   | 174.1   | 163.6   | 140.7   | 85.5    | 91.7    | 100.1   | 136.5   | 129.2   | 46.9   |
| 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°    | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 | 6727.2 |
| 2.5°  | 6733.5 | 6645.9 | 6495.8 | 6330.1 | 6194.6 | 6086.2 | 5976.7 | 5901.7 | 5814.1 | 5767.2 | 5743.3 |
| 5°    | 6738.7 | 6566.7 | 6250.9 | 5926.7 | 5636.9 | 5372.2 | 5119.9 | 4926.1 | 4744.7 | 4646.7 | 4619.6 |
| 7.5°  | 6760.6 | 6502.1 | 5991.3 | 5457.7 | 4942.7 | 4472.7 | 4109.9 | 3882.7 | 3719.0 | 3646.1 | 3625.2 |
| 10°   | 6778.3 | 6426.0 | 5670.3 | 4880.2 | 4179.8 | 3703.4 | 3422.0 | 3294.8 | 3238.5 | 3229.1 | 3219.8 |
| 12.5° | 6820.0 | 6347.8 | 5332.6 | 4277.7 | 3586.7 | 3257.3 | 3159.3 | 3151.0 | 3166.6 | 3189.5 | 3189.5 |
| 15°   | 6885.7 | 6270.7 | 4946.9 | 3760.7 | 3209.3 | 3093.6 | 3113.5 | 3159.3 | 3202.0 | 3237.5 | 3242.7 |
| 17.5° | 6933.6 | 6175.8 | 4532.1 | 3346.9 | 3008.2 | 3039.4 | 3110.3 | 3174.9 | 3218.7 | 3253.1 | 3256.3 |
| 20°   | 6968.0 | 6028.9 | 4089.1 | 3031.1 | 2892.5 | 2989.4 | 3078.0 | 3135.3 | 3165.6 | 3200.0 | 3205.2 |
| 22.5° | 6950.3 | 5831.9 | 3696.1 | 2804.9 | 2798.7 | 2916.4 | 3000.9 | 3069.7 | 3046.7 | 3013.4 | 3035.3 |
| 25°   | 6864.8 | 5560.9 | 3291.7 | 2636.1 | 2699.6 | 2818.5 | 2922.7 | 2876.8 | 2799.7 | 2785.1 | 2793.5 |
| 27.5° | 6712.6 | 5214.8 | 2917.5 | 2479.7 | 2585.0 | 2727.8 | 2721.5 | 2675.7 | 2648.6 | 2629.8 | 2641.3 |
| 30°   | 6549.0 | 4839.6 | 2590.2 | 2343.2 | 2457.8 | 2575.6 | 2551.6 | 2550.6 | 2523.5 | 2493.3 | 2507.9 |
| 32.5° | 6387.4 | 4462.2 | 2330.7 | 2230.6 | 2361.9 | 2377.6 | 2429.7 | 2445.3 | 2392.2 | 2328.6 | 2324.4 |
| 35°   | 6246.7 | 4105.8 | 2133.7 | 2128.4 | 2246.2 | 2248.3 | 2324.4 | 2302.5 | 2170.1 | 2104.5 | 2104.5 |
| 37.5° | 6141.4 | 3750.3 | 1983.6 | 2036.7 | 2094.0 | 2148.2 | 2186.8 | 2096.1 | 2074.2 | 2037.8 | 2036.7 |
| 40°   | 6095.6 | 3437.6 | 1889.8 | 1966.9 | 1986.7 | 2055.5 | 1956.5 | 1991.9 | 2002.3 | 1983.6 | 1983.6 |
| 42.5° | 6047.6 | 3165.6 | 1808.4 | 1913.7 | 1910.6 | 1901.2 | 1851.2 | 1897.0 | 1938.7 | 1939.8 | 1936.7 |
| 45°   | 5999.7 | 2931.0 | 1736.5 | 1800.1 | 1843.9 | 1742.8 | 1752.2 | 1801.2 | 1859.5 | 1880.4 | 1880.4 |
| 47.5° | 5946.5 | 2745.5 | 1670.9 | 1680.2 | 1748.0 | 1680.2 | 1672.9 | 1710.5 | 1779.3 | 1812.6 | 1819.9 |
| 50°   | 5829.8 | 2578.7 | 1595.8 | 1575.0 | 1593.7 | 1616.7 | 1622.9 | 1640.6 | 1716.7 | 1769.9 | 1782.4 |
| 52.5° | 5668.2 | 2429.7 | 1499.9 | 1478.0 | 1478.0 | 1564.5 | 1593.7 | 1598.9 | 1663.6 | 1727.1 | 1739.7 |
| 55°   | 5533.7 | 2334.8 | 1400.9 | 1396.7 | 1392.6 | 1509.3 | 1559.3 | 1567.7 | 1612.5 | 1662.5 | 1668.8 |
| 57°   | 5543.1 | 2327.5 | 1324.8 | 1329.0 | 1327.9 | 1453.0 | 1527.0 | 1544.7 | 1567.7 | 1610.4 | 1617.7 |
| 57.5° | 5548.3 | 2332.7 | 1308.1 | 1310.2 | 1309.2 | 1437.4 | 1517.6 | 1537.4 | 1555.2 | 1600.0 | 1607.3 |
| 60°   | 5626.5 | 2346.3 | 1240.4 | 1217.4 | 1222.7 | 1354.0 | 1464.5 | 1489.5 | 1501.0 | 1560.4 | 1569.8 |
| 62.5° | 5510.8 | 2285.8 | 1186.2 | 1130.9 | 1130.9 | 1266.4 | 1390.5 | 1430.1 | 1447.8 | 1528.1 | 1543.7 |
| 65°   | 5175.2 | 2115.9 | 1122.6 | 1033.0 | 1043.4 | 1178.9 | 1301.9 | 1366.5 | 1393.6 | 1493.7 | 1510.3 |
| 67.5° | 4657.1 | 1918.9 | 1054.8 | 945.4  | 955.8  | 1087.2 | 1210.1 | 1280.0 | 1322.7 | 1456.1 | 1469.7 |
| 70°   | 3982.8 | 1678.2 | 963.1  | 852.6  | 865.1  | 987.1  | 1101.7 | 1181.0 | 1244.5 | 1420.7 | 1424.9 |
| 72.5° | 2936.3 | 1375.9 | 834.9  | 750.5  | 764.0  | 870.3  | 992.3  | 1084.0 | 1169.5 | 1332.1 | 1330.0 |
| 75°   | 1745.9 | 1075.7 | 693.2  | 647.3  | 656.7  | 755.7  | 893.3  | 1004.8 | 1133.0 | 1297.7 | 1317.5 |
| 77.5° | 1059.0 | 809.9  | 564.9  | 542.0  | 553.5  | 654.6  | 822.4  | 941.2  | 1117.4 | 1223.7 | 1217.4 |
| 80°   | 640.0  | 578.5  | 451.3  | 436.7  | 448.2  | 559.7  | 760.9  | 893.3  | 976.7  | 1045.5 | 1045.5 |
| 82.5° | 334.6  | 353.4  | 331.5  | 320.0  | 335.6  | 454.5  | 692.1  | 779.7  | 863.1  | 741.1  | 692.1  |
| 85°   | 136.5  | 184.5  | 201.2  | 200.1  | 209.5  | 314.8  | 597.3  | 667.1  | 556.6  | 528.5  | 541.0  |
| 87.5° | 45.9   | 78.2   | 98.0   | 84.4   | 88.6   | 198.0  | 413.8  | 322.1  | 382.5  | 266.8  | 253.3  |
| 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)