

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: P454430

Luminaire Tested: **GLAN-SA5C-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28815 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 269  
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

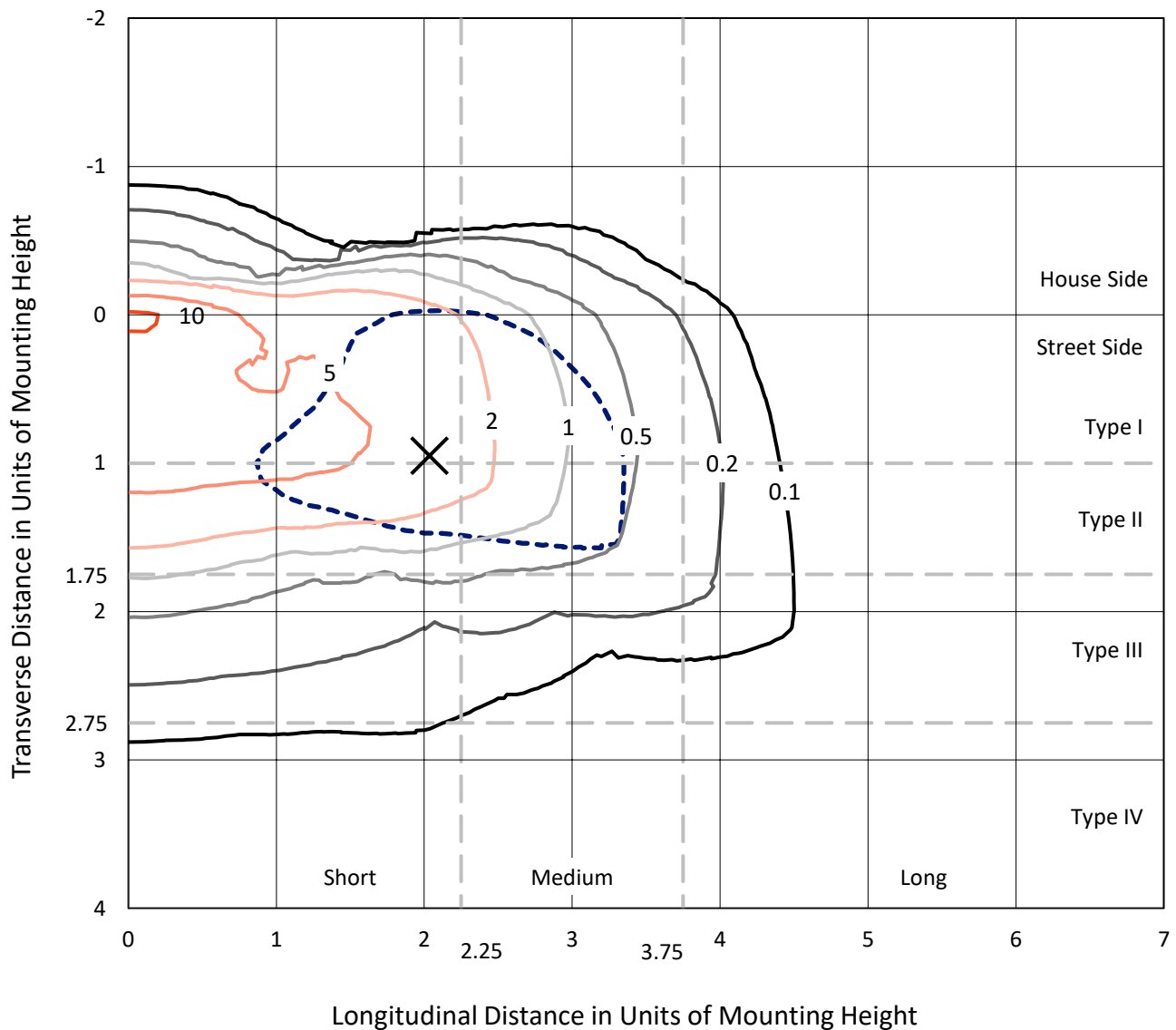


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## Iso-Footcandle Lines of Horizontal Illumination

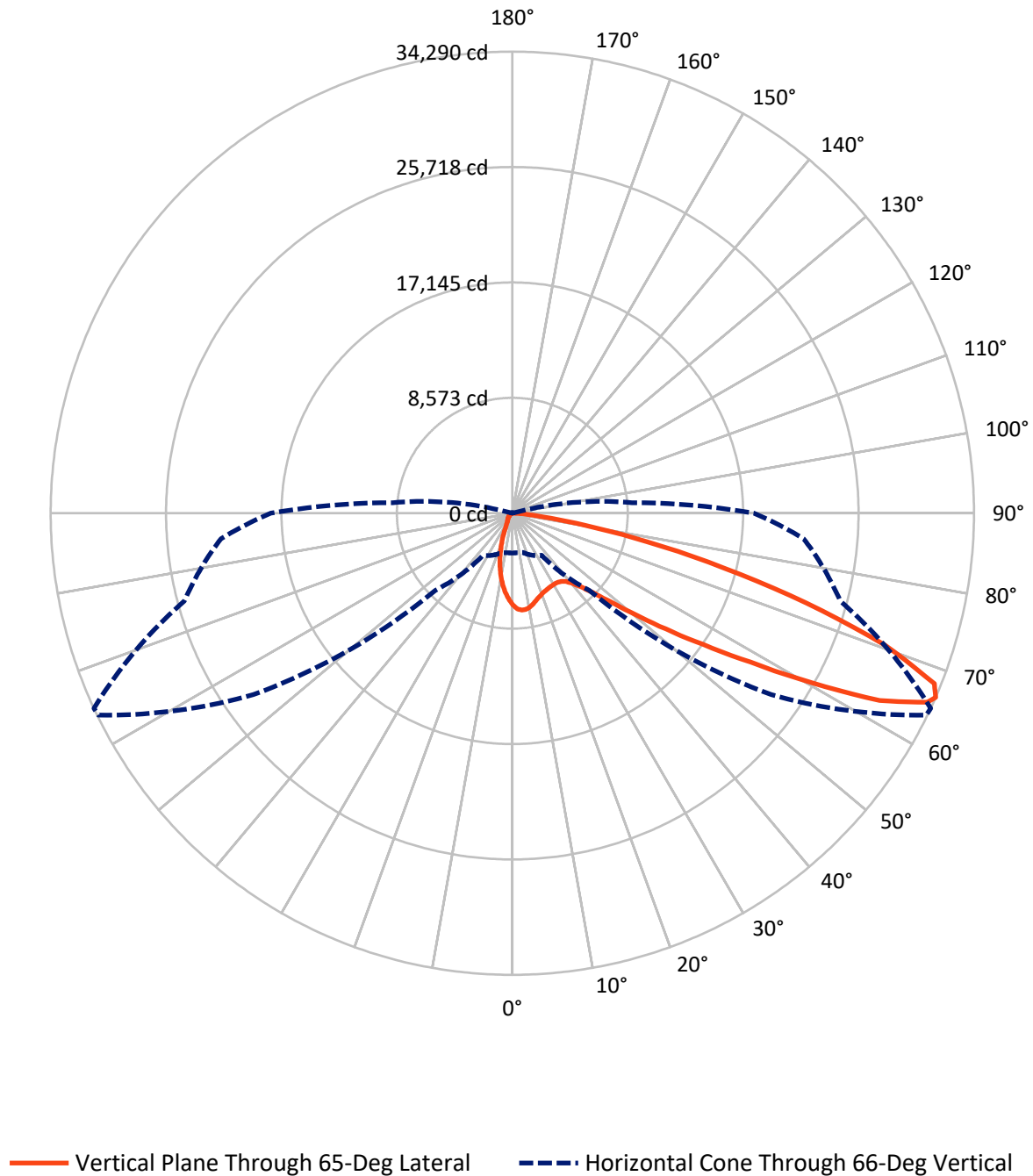
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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    | 2979.9   | 0.0    | 2979.9  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 25835.1  | 0.0    | 25835.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 28815.0  | 0.0    | 28815.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 558.8   | 1.9       |
| 10°-20°   | 1217.6  | 4.2       |
| 20°-30°   | 1744.3  | 6.1       |
| 30°-40°   | 2547.7  | 8.8       |
| 40°-50°   | 4272.0  | 14.8      |
| 50°-60°   | 7129.2  | 24.7      |
| 60°-70°   | 7567.4  | 26.3      |
| 70°-80°   | 3427.3  | 11.9      |
| 80°-90°   | 350.7   | 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°    | 28815.0 | 100.0     |
| 0°-180°   | 28815.0 | 100.0     |

**Coefficient of Utilization**



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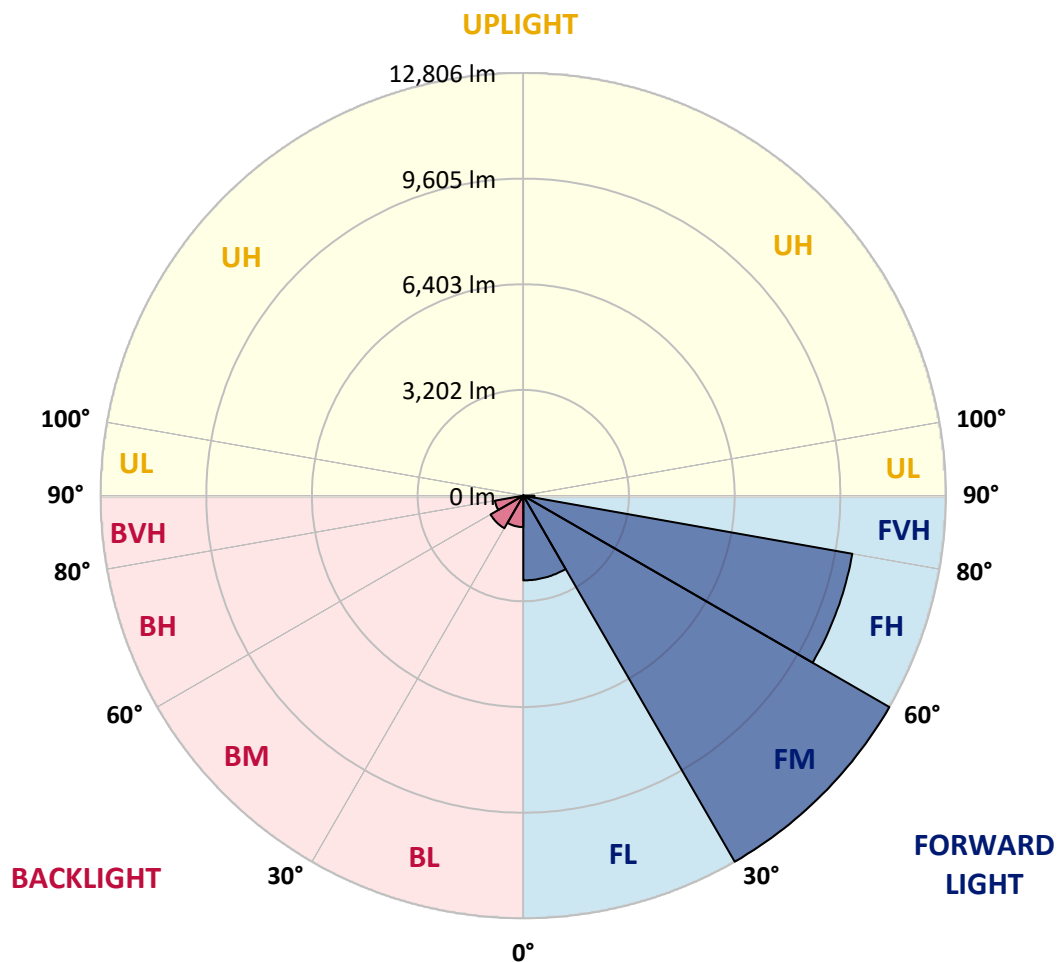
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2567.5  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 12806.0 | 44.4      |                         |      |          |
| FH   | (60°-80°)   | 10122.1 | 35.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 339.5   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 953.2   | 3.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1142.8  | 4.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 872.7   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 11.2    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  | 6833.1  |
| 2.5°  | 7200.9  | 7208.7  | 7218.4  | 7232.1  | 7241.8  | 7212.6  | 7171.7  | 7125.0  | 7115.3  | 7016.0  | 6895.4  |
| 5°    | 6815.6  | 6827.3  | 6912.9  | 6959.6  | 7064.7  | 7160.1  | 7220.4  | 7228.2  | 7224.3  | 7130.9  | 6938.2  |
| 7.5°  | 6266.8  | 6299.8  | 6383.5  | 6465.3  | 6661.8  | 6842.8  | 7056.9  | 7206.8  | 7216.5  | 7191.2  | 6951.8  |
| 10°   | 5821.1  | 5842.5  | 5885.3  | 6046.8  | 6210.3  | 6486.7  | 6786.4  | 7068.6  | 7091.9  | 7193.1  | 6940.1  |
| 12.5° | 5472.7  | 5503.8  | 5556.4  | 5681.0  | 5877.5  | 6138.3  | 6478.9  | 6858.4  | 6907.1  | 7156.2  | 6907.1  |
| 15°   | 5229.4  | 5245.0  | 5297.5  | 5420.2  | 5610.9  | 5852.2  | 6196.7  | 6638.5  | 6681.3  | 7107.5  | 6901.2  |
| 17.5° | 5114.6  | 5132.1  | 5169.1  | 5266.4  | 5424.1  | 5647.9  | 5984.6  | 6461.4  | 6515.9  | 7076.4  | 6922.6  |
| 20°   | 5145.7  | 5161.3  | 5163.3  | 5213.9  | 5320.9  | 5509.7  | 5828.9  | 6295.9  | 6366.0  | 7056.9  | 6957.7  |
| 22.5° | 5322.9  | 5324.8  | 5301.4  | 5278.1  | 5315.1  | 5451.3  | 5733.5  | 6190.9  | 6262.9  | 7053.0  | 6998.5  |
| 25°   | 5587.5  | 5593.4  | 5554.4  | 5472.7  | 5398.8  | 5468.8  | 5712.1  | 6122.7  | 6187.0  | 7043.3  | 7023.8  |
| 27.5° | 5953.4  | 5951.5  | 5939.8  | 5803.6  | 5593.4  | 5546.7  | 5729.6  | 6085.8  | 6140.3  | 7016.0  | 7033.6  |
| 30°   | 6465.3  | 6449.7  | 6424.4  | 6270.6  | 5949.5  | 5735.4  | 5803.6  | 6062.4  | 6113.0  | 6977.1  | 7008.3  |
| 32.5° | 6969.3  | 7027.7  | 7023.8  | 6877.9  | 6476.9  | 6072.1  | 5957.3  | 6093.5  | 6130.5  | 6951.8  | 6971.3  |
| 35°   | 7557.1  | 7555.1  | 7705.0  | 7650.5  | 7181.5  | 6502.2  | 6220.0  | 6196.7  | 6225.9  | 6969.3  | 6953.8  |
| 37.5° | 8102.0  | 8152.6  | 8386.2  | 8442.6  | 8014.4  | 7109.5  | 6591.8  | 6418.6  | 6428.3  | 7088.1  | 6996.6  |
| 40°   | 8781.2  | 8878.6  | 9226.9  | 9415.7  | 9038.1  | 8010.5  | 7140.6  | 6825.3  | 6827.3  | 7380.0  | 7158.1  |
| 42.5° | 9657.0  | 9810.8  | 10135.8 | 10451.1 | 10248.7 | 9077.1  | 7963.8  | 7469.5  | 7465.6  | 7893.8  | 7527.9  |
| 45°   | 10721.6 | 10828.6 | 11198.4 | 11698.6 | 11570.1 | 10565.9 | 9162.7  | 8467.9  | 8417.3  | 8736.5  | 8183.8  |
| 47.5° | 11640.2 | 11786.2 | 12161.8 | 12732.0 | 13315.9 | 12383.7 | 10595.1 | 9840.0  | 9806.9  | 10077.4 | 9308.7  |
| 50°   | 12041.1 | 12169.6 | 12564.7 | 13364.5 | 14779.4 | 14769.7 | 12728.1 | 11842.6 | 11786.2 | 11932.1 | 11048.6 |
| 52.5° | 11601.3 | 11721.9 | 12120.9 | 13117.4 | 15468.4 | 17677.3 | 15818.7 | 14355.2 | 14287.0 | 14100.2 | 13127.1 |
| 55°   | 10094.9 | 10194.2 | 10783.9 | 11928.2 | 15203.7 | 19615.7 | 20077.0 | 17459.3 | 17194.7 | 16468.7 | 15480.1 |
| 57.5° | 8037.8  | 7987.2  | 8353.1  | 9682.3  | 13650.6 | 20265.8 | 24448.1 | 21326.4 | 20853.5 | 18516.1 | 17471.0 |
| 60°   | 5570.0  | 5725.7  | 5873.6  | 6749.4  | 10264.2 | 19138.9 | 27167.0 | 26188.0 | 25565.2 | 20530.4 | 19378.3 |
| 62.5° | 4094.8  | 4197.9  | 4295.3  | 4700.1  | 6453.6  | 15281.5 | 27647.7 | 31182.0 | 30629.3 | 22669.3 | 21198.0 |
| 65°   | 3238.5  | 3246.3  | 3285.2  | 3684.2  | 4252.4  | 9937.3  | 25337.5 | 33998.1 | 33856.1 | 24728.4 | 21935.6 |
| 66°   | 2950.4  | 2952.4  | 3012.7  | 3440.9  | 3816.5  | 8092.3  | 23486.7 | 34212.2 | 34290.1 | 25222.7 | 21719.6 |
| 67.5° | 2578.7  | 2570.9  | 2658.5  | 3092.5  | 3475.9  | 5834.7  | 20174.3 | 33344.2 | 33805.4 | 25602.2 | 20943.0 |
| 70°   | 1998.7  | 1989.0  | 2096.1  | 2594.3  | 3201.5  | 3892.4  | 13409.3 | 28630.5 | 29374.0 | 24825.7 | 18529.7 |
| 72.5° | 1331.2  | 1339.0  | 1521.9  | 2047.4  | 3055.5  | 3427.3  | 8067.0  | 21779.9 | 22830.8 | 20501.2 | 14577.0 |
| 75°   | 776.5   | 790.2   | 998.4   | 1521.9  | 2652.7  | 3267.7  | 4565.8  | 15530.7 | 16202.1 | 14156.6 | 9081.0  |
| 77.5° | 406.8   | 412.6   | 558.6   | 1004.2  | 2033.8  | 3034.1  | 3041.9  | 9921.7  | 10237.0 | 6879.8  | 3594.6  |
| 80°   | 216.0   | 210.2   | 299.7   | 605.3   | 1399.3  | 2664.3  | 2467.8  | 5252.8  | 5461.0  | 2043.5  | 908.9   |
| 82.5° | 81.7    | 89.5    | 159.6   | 397.0   | 827.1   | 1913.1  | 2125.2  | 2321.8  | 2249.8  | 449.6   | 381.5   |
| 85°   | 15.6    | 19.5    | 68.1    | 235.5   | 416.5   | 799.9   | 1566.7  | 1138.5  | 1054.8  | 169.3   | 219.9   |
| 87.5° | 1.9     | 3.9     | 19.5    | 56.4    | 60.3    | 270.5   | 463.2   | 315.3   | 272.5   | 62.3    | 91.5    |
| 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°    | 6833.1  | 6833.1  | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 |
| 2.5°  | 6837.0  | 6784.4  | 6609.3 | 6436.1 | 6259.0 | 6099.4 | 5990.4 | 5813.3 | 5768.5 | 5704.3 | 5667.3 |
| 5°    | 6823.4  | 6700.8  | 6364.1 | 5996.2 | 5653.7 | 5283.9 | 5001.7 | 4729.3 | 4583.3 | 4509.3 | 4482.1 |
| 7.5°  | 6784.4  | 6589.8  | 6064.4 | 5488.3 | 4939.4 | 4386.7 | 3906.0 | 3540.1 | 3304.6 | 3143.1 | 3034.1 |
| 10°   | 6706.6  | 6438.0  | 5716.0 | 4923.9 | 4094.8 | 3365.0 | 2755.8 | 2292.6 | 1934.5 | 1821.6 | 1825.5 |
| 12.5° | 6626.8  | 6268.7  | 5326.7 | 4297.2 | 3269.6 | 2349.1 | 1702.9 | 1337.0 | 1165.8 | 1109.3 | 1097.7 |
| 15°   | 6552.8  | 6107.2  | 4945.3 | 3690.0 | 2434.7 | 1521.9 | 1097.7 | 969.2  | 922.5  | 912.8  | 910.8  |
| 17.5° | 6513.9  | 5957.3  | 4538.5 | 2995.2 | 1699.0 | 1033.4 | 879.7  | 844.6  | 831.0  | 821.3  | 817.4  |
| 20°   | 6480.8  | 5826.9  | 4149.3 | 2345.2 | 1161.9 | 846.6  | 788.2  | 755.1  | 731.8  | 722.0  | 716.2  |
| 22.5° | 6457.5  | 5692.6  | 3746.4 | 1815.8 | 889.4  | 751.2  | 698.7  | 655.9  | 622.8  | 611.1  | 603.3  |
| 25°   | 6422.5  | 5544.7  | 3339.7 | 1327.3 | 749.3  | 667.5  | 607.2  | 556.6  | 513.8  | 492.4  | 488.5  |
| 27.5° | 6371.9  | 5377.3  | 2894.0 | 982.8  | 669.5  | 593.6  | 519.6  | 457.4  | 414.5  | 391.2  | 393.1  |
| 30°   | 6290.1  | 5202.2  | 2448.3 | 780.4  | 605.3  | 517.7  | 437.9  | 377.6  | 336.7  | 319.2  | 317.2  |
| 32.5° | 6192.8  | 4990.1  | 2039.6 | 669.5  | 546.9  | 449.6  | 365.9  | 313.3  | 282.2  | 268.6  | 266.6  |
| 35°   | 6101.3  | 4776.0  | 1623.1 | 601.4  | 486.5  | 387.3  | 307.5  | 262.7  | 239.4  | 227.7  | 229.7  |
| 37.5° | 6050.7  | 4585.2  | 1265.0 | 546.9  | 437.9  | 332.8  | 264.7  | 225.8  | 204.4  | 194.6  | 192.7  |
| 40°   | 6083.8  | 4429.5  | 1006.2 | 498.2  | 383.4  | 286.1  | 227.7  | 194.6  | 173.2  | 159.6  | 159.6  |
| 42.5° | 6239.5  | 4361.4  | 811.6  | 451.5  | 332.8  | 247.2  | 198.5  | 167.4  | 144.0  | 130.4  | 132.3  |
| 45°   | 6714.4  | 4433.4  | 679.2  | 408.7  | 286.1  | 214.1  | 171.3  | 138.2  | 116.8  | 107.0  | 105.1  |
| 47.5° | 7502.6  | 4704.0  | 587.8  | 363.9  | 245.2  | 182.9  | 144.0  | 114.8  | 93.4   | 85.6   | 83.7   |
| 50°   | 8880.5  | 5262.5  | 519.6  | 319.2  | 208.2  | 155.7  | 118.7  | 91.5   | 74.0   | 66.2   | 66.2   |
| 52.5° | 10776.1 | 6480.8  | 471.0  | 268.6  | 175.2  | 132.3  | 97.3   | 74.0   | 58.4   | 52.5   | 50.6   |
| 55°   | 12757.3 | 7765.3  | 445.7  | 225.8  | 146.0  | 109.0  | 77.8   | 58.4   | 44.8   | 38.9   | 37.0   |
| 57.5° | 14662.7 | 8773.5  | 416.5  | 182.9  | 116.8  | 83.7   | 60.3   | 44.8   | 31.1   | 27.2   | 25.3   |
| 60°   | 16490.1 | 9588.9  | 354.2  | 146.0  | 91.5   | 60.3   | 44.8   | 31.1   | 21.4   | 17.5   | 17.5   |
| 62.5° | 18124.9 | 10063.8 | 278.3  | 116.8  | 70.1   | 42.8   | 29.2   | 23.4   | 15.6   | 11.7   | 11.7   |
| 65°   | 18315.7 | 9446.8  | 210.2  | 89.5   | 50.6   | 27.2   | 17.5   | 17.5   | 11.7   | 7.8    | 7.8    |
| 66°   | 17932.3 | 8923.3  | 184.9  | 81.7   | 44.8   | 23.4   | 15.6   | 13.6   | 9.7    | 5.8    | 5.8    |
| 67.5° | 17075.9 | 8030.0  | 159.6  | 70.1   | 37.0   | 17.5   | 11.7   | 11.7   | 7.8    | 3.9    | 3.9    |
| 70°   | 14754.1 | 6558.7  | 126.5  | 52.5   | 27.2   | 13.6   | 7.8    | 7.8    | 5.8    | 3.9    | 3.9    |
| 72.5° | 11245.1 | 4896.6  | 103.1  | 38.9   | 19.5   | 9.7    | 5.8    | 5.8    | 5.8    | 3.9    | 3.9    |
| 75°   | 6782.5  | 2637.1  | 79.8   | 29.2   | 17.5   | 7.8    | 3.9    | 5.8    | 7.8    | 5.8    | 3.9    |
| 77.5° | 2498.9  | 897.2   | 62.3   | 23.4   | 13.6   | 7.8    | 3.9    | 3.9    | 7.8    | 5.8    | 5.8    |
| 80°   | 613.1   | 233.5   | 44.8   | 19.5   | 13.6   | 7.8    | 3.9    | 3.9    | 7.8    | 7.8    | 7.8    |
| 82.5° | 284.1   | 99.3    | 31.1   | 17.5   | 13.6   | 7.8    | 3.9    | 3.9    | 5.8    | 7.8    | 7.8    |
| 85°   | 163.5   | 46.7    | 25.3   | 19.5   | 13.6   | 7.8    | 3.9    | 3.9    | 5.8    | 7.8    | 7.8    |
| 87.5° | 66.2    | 23.4    | 23.4   | 19.5   | 15.6   | 9.7    | 3.9    | 3.9    | 3.9    | 5.8    | 5.8    |
| 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)