

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: P638068

Luminaire Tested: **IFLD-L-SA8B-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638068  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23059.1 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

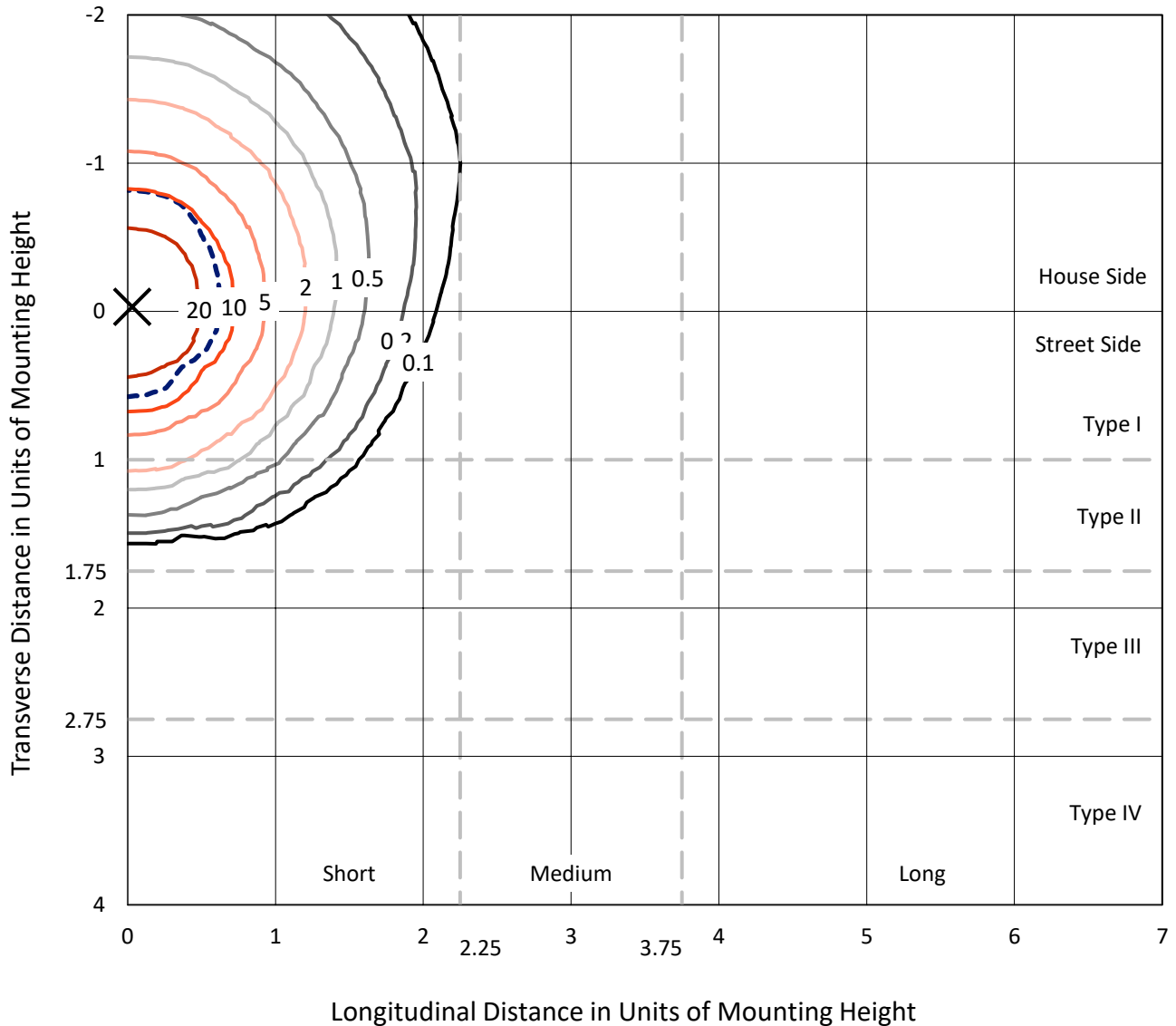
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

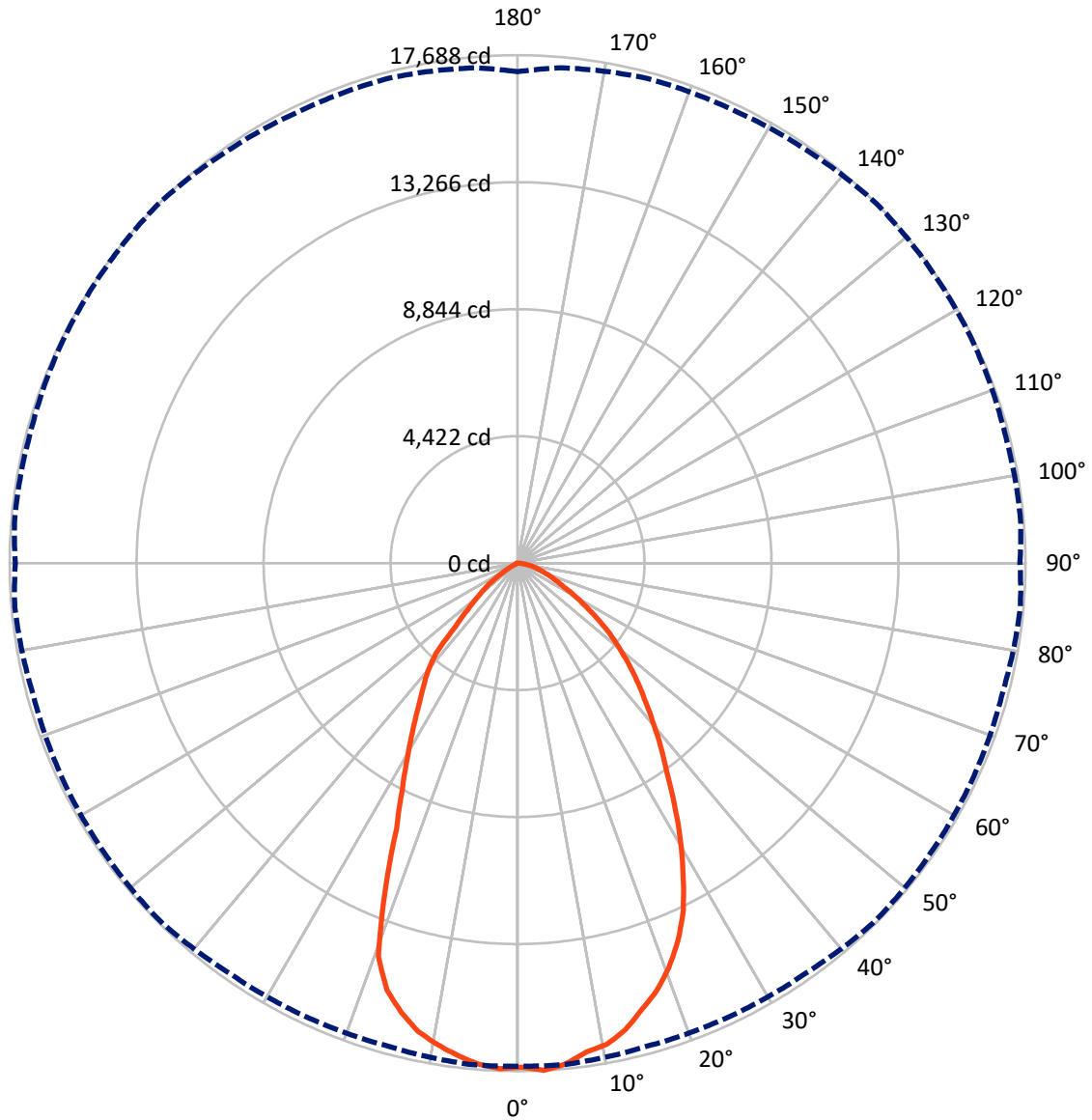
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral      - - - Horizontal Cone Through 2.5-Deg Vertical

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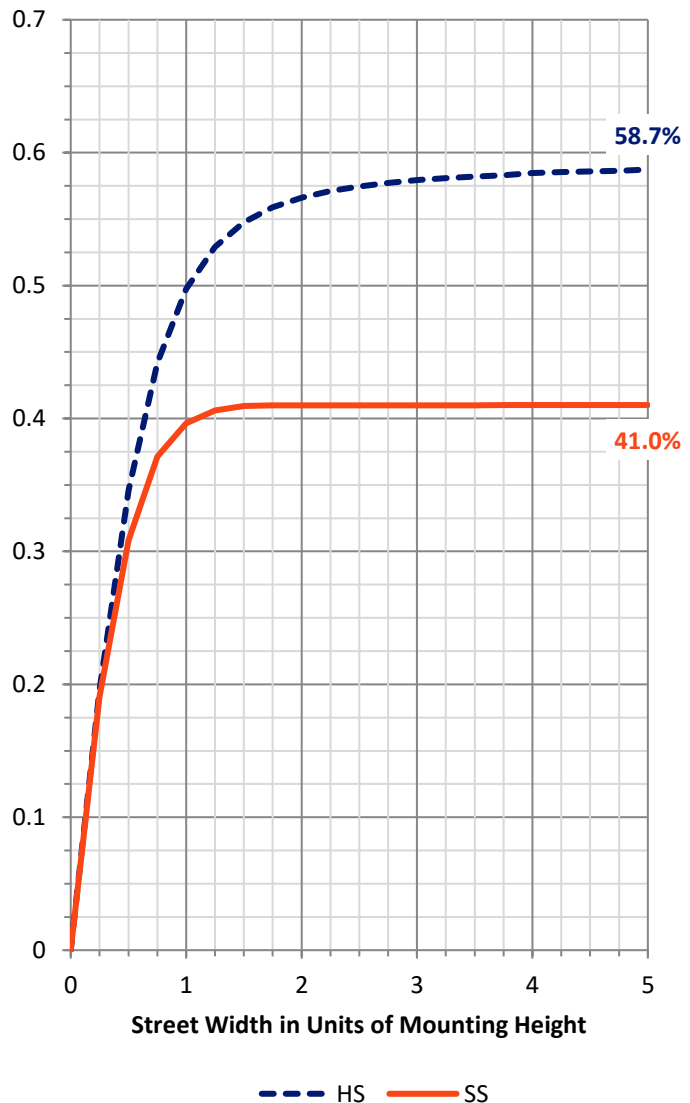
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13656.8  | 0.0    | 13656.8 |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 9402.3   | 0.0    | 9402.3  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 23059.1  | 0.0    | 23059.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1645.7  | 7.1       |
| 10°-20°   | 4413.1  | 19.1      |
| 20°-30°   | 5382.0  | 23.3      |
| 30°-40°   | 4913.7  | 21.3      |
| 40°-50°   | 3551.0  | 15.4      |
| 50°-60°   | 1938.9  | 8.4       |
| 60°-70°   | 801.7   | 3.5       |
| 70°-80°   | 324.7   | 1.4       |
| 80°-90°   | 88.3    | 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°    | 23059.1 | 100.0     |
| 0°-180°   | 23059.1 | 100.0     |



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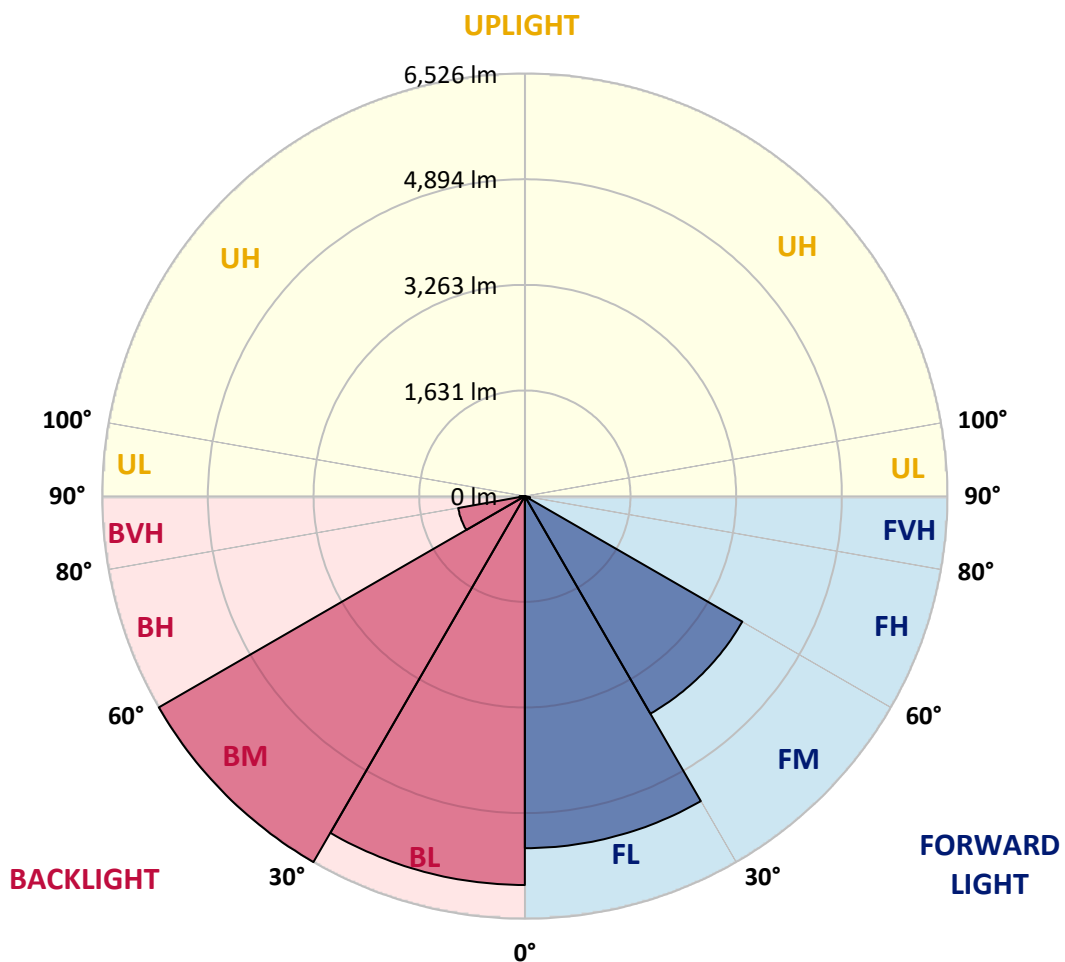
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 5435.9 | 23.6      |                         |      |         |
| FM (30°-60°)   | 3878.1 | 16.8      |                         |      |         |
| FH (60°-80°)   | 81.2   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 7.1    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 6004.9 | 26.0      | B5                      |      |         |
| BM (30°-60°)   | 6525.5 | 28.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 1045.1 | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 81.2   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 |
| 2.5°  | 17515.4 | 17538.2 | 17414.8 | 17427.8 | 17450.5 | 17616.1 | 17573.9 | 17534.9 | 17479.7 | 17573.9 |
| 5°    | 17492.7 | 17505.7 | 17375.8 | 17330.3 | 17349.8 | 17499.2 | 17362.8 | 17362.8 | 17349.8 | 17333.6 |
| 7.5°  | 17317.4 | 17323.9 | 17223.2 | 17142.0 | 17194.0 | 17262.2 | 17161.5 | 17210.2 | 17138.8 | 17194.0 |
| 10°   | 17054.3 | 17012.1 | 16892.0 | 16869.2 | 16927.7 | 16992.6 | 16924.4 | 16969.9 | 16905.0 | 16947.2 |
| 12.5° | 16667.9 | 16603.0 | 16505.6 | 16476.3 | 16577.0 | 16664.7 | 16609.5 | 16583.5 | 16499.1 | 16603.0 |
| 15°   | 15177.4 | 15128.7 | 15349.5 | 15736.0 | 16083.4 | 16158.1 | 16099.7 | 16125.6 | 15950.3 | 15979.5 |
| 17.5° | 12492.0 | 12401.1 | 12638.1 | 13553.8 | 14859.2 | 15547.6 | 15495.7 | 15326.8 | 15067.0 | 15125.5 |
| 20°   | 11352.2 | 11326.3 | 11300.3 | 11517.8 | 12430.3 | 14518.3 | 14589.7 | 14161.1 | 13790.9 | 13709.7 |
| 22.5° | 10709.3 | 10699.5 | 10673.6 | 10722.3 | 10962.6 | 12303.7 | 13122.0 | 12725.8 | 12479.0 | 12456.3 |
| 25°   | 10121.5 | 10105.3 | 10027.4 | 10089.1 | 10089.1 | 10167.0 | 11215.9 | 11456.1 | 11238.6 | 11212.6 |
| 27.5° | 9524.1  | 9494.8  | 9481.8  | 9511.1  | 9361.7  | 8835.7  | 9101.9  | 10274.2 | 10160.5 | 10167.0 |
| 30°   | 8877.9  | 8868.1  | 8832.4  | 8894.1  | 8433.0  | 7780.3  | 7611.5  | 9202.6  | 9225.3  | 9218.8  |
| 32.5° | 7916.7  | 7958.9  | 8121.3  | 8189.5  | 7429.6  | 6890.6  | 6608.1  | 7962.2  | 8426.5  | 8416.8  |
| 35°   | 5750.8  | 5750.8  | 6280.1  | 7264.0  | 6510.7  | 6104.7  | 5952.1  | 6750.9  | 7637.4  | 7669.9  |
| 37.5° | 4727.9  | 4744.2  | 4848.1  | 5296.2  | 5617.7  | 5474.8  | 5429.3  | 5682.6  | 6624.3  | 6676.3  |
| 40°   | 4253.8  | 4253.8  | 4253.8  | 4068.8  | 4059.0  | 4932.5  | 4906.5  | 4825.4  | 5721.6  | 5835.2  |
| 42.5° | 3822.0  | 3831.7  | 3838.2  | 3370.6  | 3110.8  | 4263.6  | 4205.1  | 4081.7  | 4913.0  | 5046.2  |
| 45°   | 3377.1  | 3393.3  | 3412.8  | 2818.6  | 2704.9  | 3068.6  | 3558.9  | 3422.6  | 4114.2  | 4286.3  |
| 47.5° | 2062.0  | 2088.0  | 2529.6  | 2389.9  | 2402.9  | 2367.2  | 2903.0  | 2880.3  | 3373.8  | 3617.4  |
| 50°   | 1393.1  | 1402.8  | 1445.0  | 1516.4  | 2062.0  | 1860.6  | 2055.5  | 2383.5  | 2562.0  | 2932.2  |
| 52.5° | 1169.0  | 1185.2  | 1081.3  | 983.9   | 1354.1  | 1454.7  | 1435.3  | 1769.7  | 1841.2  | 2299.0  |
| 55°   | 821.5   | 873.5   | 824.8   | 815.0   | 769.6   | 1130.0  | 1087.8  | 1360.6  | 1406.0  | 1747.0  |
| 57.5° | 84.4    | 97.4    | 168.9   | 607.2   | 503.3   | 639.7   | 776.1   | 996.9   | 1042.4  | 1289.1  |
| 60°   | 6.5     | 6.5     | 16.2    | 84.4    | 366.9   | 383.2   | 535.8   | 613.7   | 701.4   | 899.5   |
| 62.5° | 0.0     | 3.2     | 6.5     | 13.0    | 58.4    | 204.6   | 269.5   | 321.5   | 422.1   | 581.3   |
| 65°   | 0.0     | 0.0     | 3.2     | 9.7     | 13.0    | 77.9    | 103.9   | 168.9   | 230.6   | 360.4   |
| 67.5° | 0.0     | 0.0     | 3.2     | 6.5     | 9.7     | 19.5    | 35.7    | 61.7    | 123.4   | 204.6   |
| 70°   | 0.0     | 0.0     | 3.2     | 6.5     | 9.7     | 16.2    | 26.0    | 39.0    | 55.2    | 110.4   |
| 72.5° | 0.0     | 0.0     | 3.2     | 3.2     | 6.5     | 16.2    | 19.5    | 26.0    | 39.0    | 55.2    |
| 75°   | 0.0     | 0.0     | 3.2     | 3.2     | 9.7     | 19.5    | 16.2    | 19.5    | 26.0    | 35.7    |
| 77.5° | 0.0     | 0.0     | 3.2     | 6.5     | 9.7     | 19.5    | 16.2    | 19.5    | 19.5    | 22.7    |
| 80°   | 0.0     | 0.0     | 3.2     | 6.5     | 13.0    | 22.7    | 19.5    | 19.5    | 16.2    | 16.2    |
| 82.5° | 0.0     | 0.0     | 3.2     | 9.7     | 13.0    | 29.2    | 29.2    | 26.0    | 13.0    | 9.7     |
| 85°   | 0.0     | 0.0     | 6.5     | 13.0    | 19.5    | 32.5    | 32.5    | 26.0    | 9.7     | 6.5     |
| 87.5° | 0.0     | 0.0     | 6.5     | 9.7     | 16.2    | 22.7    | 32.5    | 26.0    | 9.7     | 3.2     |
| 90°   | 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 17547.9 | 0°    | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 | 17547.9 |
| 17492.7 | 2.5°  | 17580.4 | 17560.9 | 17625.8 | 17651.8 | 17687.5 | 17551.2 | 17466.7 | 17470.0 | 17314.1 |
| 17294.6 | 5°    | 17398.5 | 17401.8 | 17486.2 | 17479.7 | 17515.4 | 17440.8 | 17408.3 | 17353.1 | 17216.7 |
| 17044.6 | 7.5°  | 17168.0 | 17138.8 | 17219.9 | 17281.6 | 17190.7 | 17242.7 | 17168.0 | 17194.0 | 17112.8 |
| 16823.8 | 10°   | 16989.4 | 16921.2 | 16995.9 | 17038.1 | 17041.3 | 16989.4 | 16918.0 | 16849.8 | 16820.5 |
| 16479.6 | 12.5° | 16593.2 | 16505.6 | 16632.2 | 16690.6 | 16680.9 | 16580.2 | 16499.1 | 16515.3 | 16421.1 |
| 15875.6 | 15°   | 16047.7 | 16050.9 | 16141.9 | 16197.1 | 16145.1 | 16122.4 | 16128.9 | 16089.9 | 16008.7 |
| 15041.1 | 17.5° | 15213.2 | 15261.9 | 15502.2 | 15635.3 | 15664.5 | 15619.1 | 15596.3 | 15550.9 | 15469.7 |
| 13709.7 | 20°   | 13823.4 | 14115.6 | 14544.2 | 14956.6 | 15037.8 | 15024.8 | 14943.6 | 14924.2 | 14878.7 |
| 12391.3 | 22.5° | 12602.4 | 12820.0 | 13316.8 | 13959.7 | 14291.0 | 14323.4 | 14226.0 | 14196.8 | 14148.1 |
| 11212.6 | 25°   | 11339.2 | 11573.0 | 12021.2 | 12719.3 | 13404.5 | 13544.1 | 13527.9 | 13440.2 | 13388.2 |
| 10167.0 | 27.5° | 10274.2 | 10508.0 | 10913.9 | 11543.8 | 12277.7 | 12725.8 | 12768.0 | 12628.4 | 12625.1 |
| 9235.1  | 30°   | 9313.0  | 9634.5  | 9942.9  | 10456.0 | 11167.1 | 11839.3 | 11910.8 | 11813.3 | 11823.1 |
| 8381.0  | 32.5° | 8559.6  | 8825.9  | 9088.9  | 9433.1  | 10024.1 | 10806.7 | 11086.0 | 10995.0 | 10959.3 |
| 7669.9  | 35°   | 7790.1  | 7971.9  | 8241.4  | 8556.4  | 8959.0  | 9735.1  | 10219.0 | 10150.8 | 10115.1 |
| 6708.7  | 37.5° | 6913.3  | 7225.0  | 7419.9  | 7773.8  | 8088.8  | 8705.8  | 9387.7  | 9377.9  | 9303.2  |
| 5890.4  | 40°   | 6013.8  | 6341.8  | 6637.3  | 6994.5  | 7238.0  | 7728.4  | 8485.0  | 8481.7  | 8491.4  |
| 5042.9  | 42.5° | 5198.8  | 5500.8  | 5858.0  | 6247.6  | 6481.4  | 6838.6  | 7650.4  | 7695.9  | 7751.1  |
| 4344.8  | 45°   | 4461.7  | 4734.4  | 5065.6  | 5539.7  | 5822.2  | 6026.8  | 6747.7  | 6955.5  | 6952.3  |
| 3721.3  | 47.5° | 3799.2  | 4055.8  | 4335.0  | 4796.1  | 5156.6  | 5341.7  | 5939.1  | 6234.6  | 6215.2  |
| 3052.4  | 50°   | 3188.8  | 3416.1  | 3708.3  | 4042.8  | 4526.6  | 4689.0  | 5133.8  | 5523.5  | 5494.3  |
| 2432.2  | 52.5° | 2565.3  | 2880.3  | 3127.1  | 3432.3  | 3942.1  | 4101.2  | 4445.4  | 4825.4  | 4802.6  |
| 1824.9  | 55°   | 2000.3  | 2305.5  | 2604.3  | 2867.3  | 3295.9  | 3533.0  | 3779.7  | 4169.4  | 4162.9  |
| 1428.8  | 57.5° | 1513.2  | 1847.7  | 2130.2  | 2380.2  | 2721.2  | 3013.4  | 3211.5  | 3565.4  | 3610.9  |
| 977.4   | 60°   | 1120.3  | 1376.8  | 1682.1  | 1961.3  | 2230.8  | 2532.8  | 2666.0  | 3013.4  | 3032.9  |
| 668.9   | 62.5° | 763.1   | 1045.6  | 1344.3  | 1597.6  | 1799.0  | 2110.7  | 2230.8  | 2516.6  | 2552.3  |
| 428.6   | 65°   | 529.3   | 711.1   | 1052.1  | 1233.9  | 1480.7  | 1747.0  | 1867.1  | 2094.4  | 2165.9  |
| 246.8   | 67.5° | 350.7   | 506.6   | 821.5   | 987.2   | 1230.7  | 1412.5  | 1565.2  | 1750.2  | 1828.2  |
| 155.9   | 70°   | 191.6   | 373.4   | 587.7   | 779.3   | 990.4   | 1165.7  | 1315.1  | 1464.5  | 1532.7  |
| 71.4    | 72.5° | 129.9   | 250.0   | 409.1   | 617.0   | 798.8   | 970.9   | 1104.1  | 1214.5  | 1217.7  |
| 42.2    | 75°   | 64.9    | 168.9   | 311.7   | 477.3   | 623.5   | 792.3   | 912.5   | 977.4   | 899.5   |
| 26.0    | 77.5° | 39.0    | 123.4   | 253.3   | 383.2   | 506.6   | 639.7   | 707.9   | 743.6   | 617.0   |
| 19.5    | 80°   | 22.7    | 87.7    | 198.1   | 305.2   | 350.7   | 470.8   | 535.8   | 545.5   | 412.4   |
| 13.0    | 82.5° | 16.2    | 64.9    | 155.9   | 224.1   | 214.3   | 331.2   | 402.7   | 389.7   | 263.0   |
| 9.7     | 85°   | 9.7     | 45.5    | 97.4    | 139.6   | 129.9   | 217.6   | 233.8   | 240.3   | 152.6   |
| 6.5     | 87.5° | 6.5     | 26.0    | 52.0    | 74.7    | 61.7    | 94.2    | 94.2    | 113.7   | 74.7    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
17547.9  
*17112.8*  
17184.2  
16976.4  
16690.6  
16339.9  
15927.6  
15434.0  
14774.8  
14135.1  
13333.0  
12618.6  
11774.4  
10962.6  
10066.3  
9364.9  
8491.4  
7721.9  
6958.8  
6221.6  
5520.3  
4851.3  
4179.2  
3591.4  
3062.1  
2558.8  
2149.7  
1818.4  
1506.7  
1188.5  
841.0  
594.2  
386.4  
243.5  
139.6  
64.9  
0.0

(END OF REPORT)