

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: P638054

Luminaire Tested: **IFLD-S-SA6C-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638054  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23542.5 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

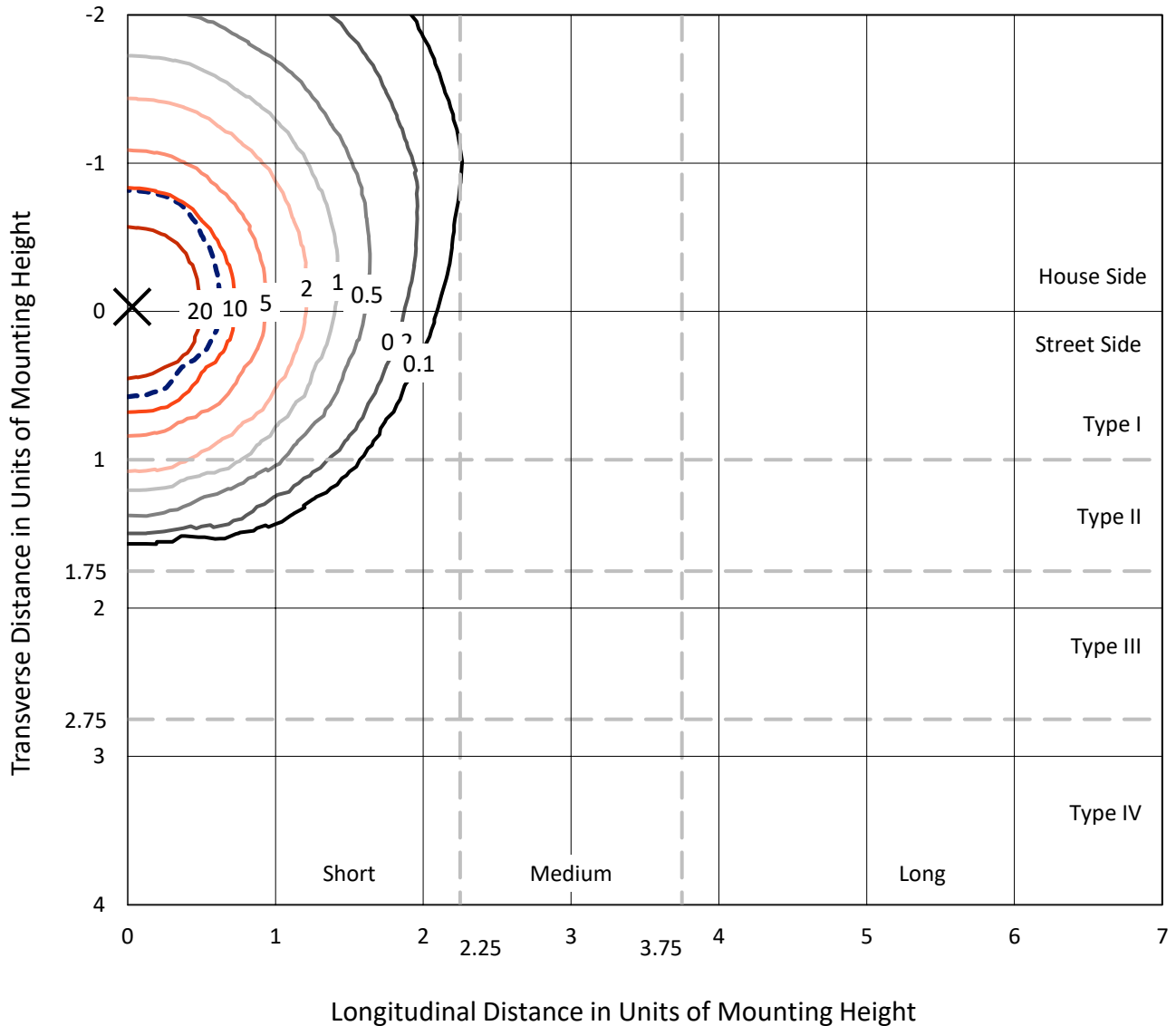
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

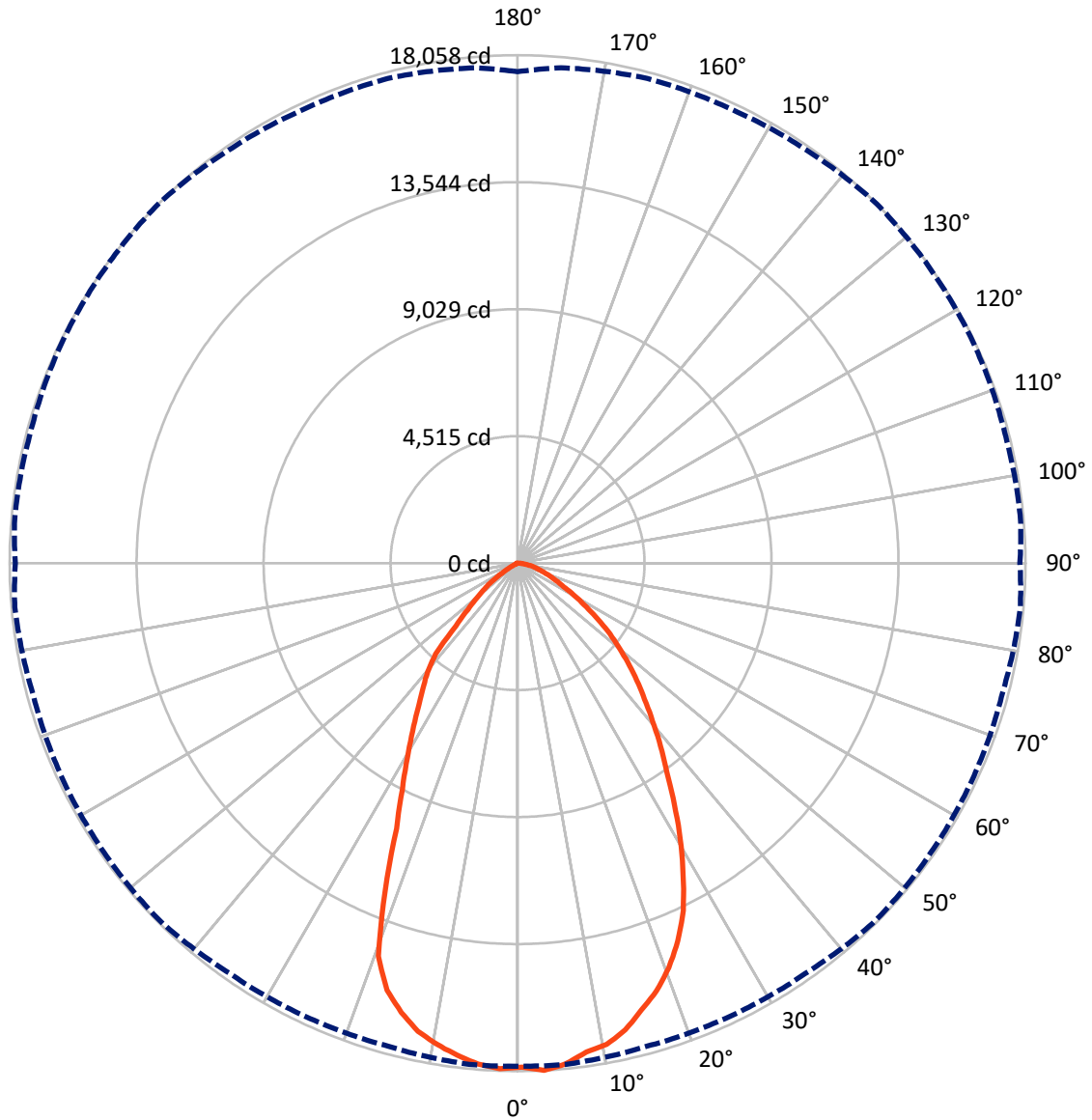
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.8 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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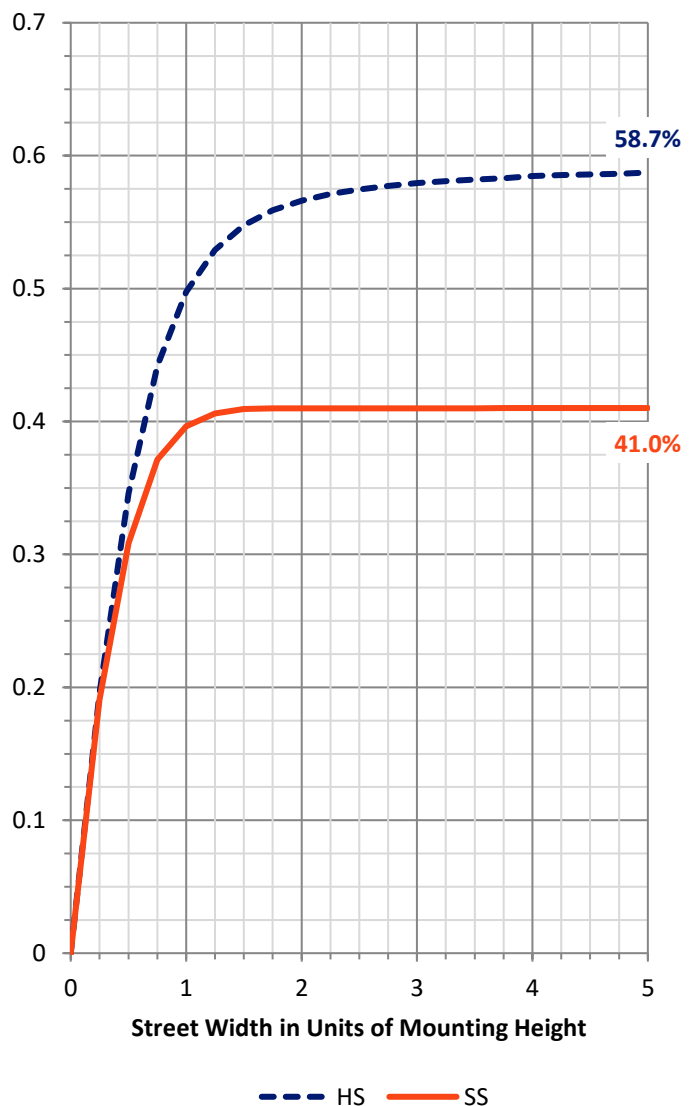
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13943.1  | 0.0    | 13943.1 |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 9599.4   | 0.0    | 9599.4  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 23542.5  | 0.0    | 23542.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1680.2  | 7.1       |
| 10°-20°   | 4505.6  | 19.1      |
| 20°-30°   | 5494.8  | 23.3      |
| 30°-40°   | 5016.7  | 21.3      |
| 40°-50°   | 3625.5  | 15.4      |
| 50°-60°   | 1979.5  | 8.4       |
| 60°-70°   | 818.5   | 3.5       |
| 70°-80°   | 331.5   | 1.4       |
| 80°-90°   | 90.2    | 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°    | 23542.5 | 100.0     |
| 0°-180°   | 23542.5 | 100.0     |



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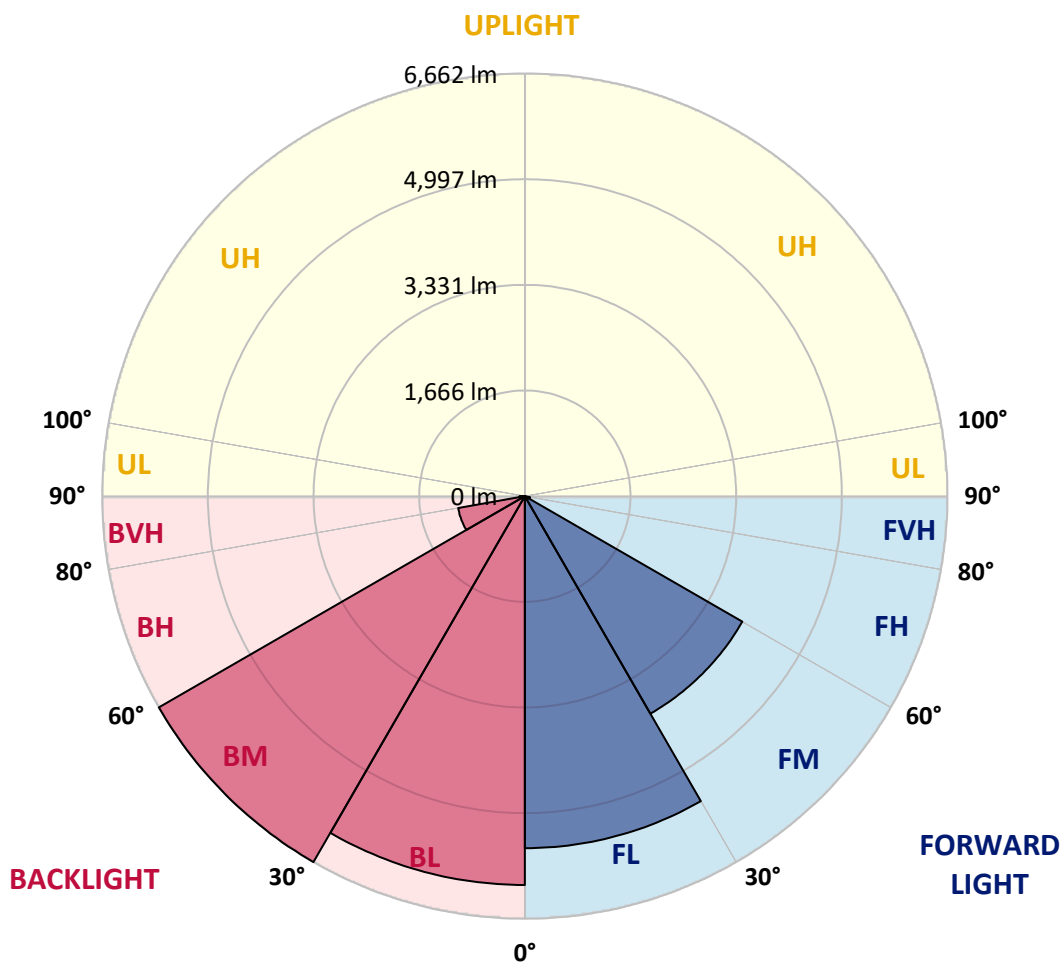
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 5549.8 | 23.6      |                         |      |         |
| FM (30°-60°)   | 3959.4 | 16.8      |                         |      |         |
| FH (60°-80°)   | 83.0   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 7.2    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 6130.8 | 26.0      | B5                      |      |         |
| BM (30°-60°)   | 6662.3 | 28.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 1067.0 | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 82.9   | 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°    | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 |
| 2.5°  | 17882.6 | 17905.8 | 17779.8 | 17793.1 | 17816.3 | 17985.4 | 17942.3 | 17902.5 | 17846.1 | 17942.3 |
| 5°    | 17859.4 | 17872.7 | 17740.0 | 17693.6 | 17713.5 | 17866.0 | 17726.8 | 17726.8 | 17713.5 | 17696.9 |
| 7.5°  | 17680.4 | 17687.0 | 17584.2 | 17501.3 | 17554.4 | 17624.0 | 17521.2 | 17571.0 | 17498.0 | 17554.4 |
| 10°   | 17411.8 | 17368.7 | 17246.1 | 17222.9 | 17282.5 | 17348.8 | 17279.2 | 17325.6 | 17259.3 | 17302.4 |
| 12.5° | 17017.3 | 16951.0 | 16851.5 | 16821.7 | 16924.5 | 17014.0 | 16957.6 | 16931.1 | 16844.9 | 16951.0 |
| 15°   | 15495.6 | 15445.9 | 15671.3 | 16065.8 | 16420.6 | 16496.8 | 16437.1 | 16463.7 | 16284.6 | 16314.5 |
| 17.5° | 12753.9 | 12661.0 | 12903.1 | 13838.0 | 15170.7 | 15873.5 | 15820.5 | 15648.1 | 15382.9 | 15442.6 |
| 20°   | 11590.2 | 11563.7 | 11537.2 | 11759.3 | 12690.9 | 14822.6 | 14895.5 | 14457.9 | 14080.0 | 13997.1 |
| 22.5° | 10933.8 | 10923.8 | 10897.3 | 10947.0 | 11192.4 | 12561.6 | 13397.0 | 12992.6 | 12740.6 | 12717.4 |
| 25°   | 10333.7 | 10317.1 | 10237.6 | 10300.6 | 10300.6 | 10380.1 | 11451.0 | 11696.3 | 11474.2 | 11447.6 |
| 27.5° | 9723.7  | 9693.9  | 9680.6  | 9710.4  | 9557.9  | 9020.9  | 9292.7  | 10489.5 | 10373.5 | 10380.1 |
| 30°   | 9064.0  | 9054.0  | 9017.6  | 9080.5  | 8609.8  | 7943.4  | 7771.0  | 9395.5  | 9418.7  | 9412.1  |
| 32.5° | 8082.6  | 8125.7  | 8291.5  | 8361.1  | 7585.4  | 7035.0  | 6746.6  | 8129.1  | 8603.1  | 8593.2  |
| 35°   | 5871.4  | 5871.4  | 6411.7  | 7416.3  | 6647.1  | 6232.7  | 6076.9  | 6892.5  | 7797.5  | 7830.7  |
| 37.5° | 4827.0  | 4843.6  | 4949.7  | 5407.2  | 5735.4  | 5589.6  | 5543.1  | 5801.7  | 6763.2  | 6816.2  |
| 40°   | 4343.0  | 4343.0  | 4343.0  | 4154.0  | 4144.1  | 5035.9  | 5009.4  | 4926.5  | 5841.5  | 5957.6  |
| 42.5° | 3902.1  | 3912.0  | 3918.7  | 3441.3  | 3176.0  | 4353.0  | 4293.3  | 4167.3  | 5016.0  | 5151.9  |
| 45°   | 3447.9  | 3464.5  | 3484.4  | 2877.7  | 2761.6  | 3132.9  | 3633.5  | 3494.3  | 4200.5  | 4376.2  |
| 47.5° | 2105.2  | 2131.7  | 2582.6  | 2440.0  | 2453.3  | 2416.8  | 2963.9  | 2940.6  | 3444.6  | 3693.2  |
| 50°   | 1422.3  | 1432.2  | 1475.3  | 1548.2  | 2105.2  | 1899.7  | 2098.6  | 2433.4  | 2615.8  | 2993.7  |
| 52.5° | 1193.5  | 1210.1  | 1104.0  | 1004.5  | 1382.5  | 1485.2  | 1465.4  | 1806.8  | 1879.8  | 2347.2  |
| 55°   | 838.8   | 891.8   | 842.1   | 832.1   | 785.7   | 1153.7  | 1110.6  | 1389.1  | 1435.5  | 1783.6  |
| 57.5° | 86.2    | 99.5    | 172.4   | 620.0   | 513.9   | 653.1   | 792.4   | 1017.8  | 1064.2  | 1316.2  |
| 60°   | 6.6     | 6.6     | 16.6    | 86.2    | 374.6   | 391.2   | 547.0   | 626.6   | 716.1   | 918.3   |
| 62.5° | 0.0     | 3.3     | 6.6     | 13.3    | 59.7    | 208.9   | 275.2   | 328.2   | 431.0   | 593.4   |
| 65°   | 0.0     | 0.0     | 3.3     | 9.9     | 13.3    | 79.6    | 106.1   | 172.4   | 235.4   | 368.0   |
| 67.5° | 0.0     | 0.0     | 3.3     | 6.6     | 9.9     | 19.9    | 36.5    | 63.0    | 126.0   | 208.9   |
| 70°   | 0.0     | 0.0     | 3.3     | 6.6     | 9.9     | 16.6    | 26.5    | 39.8    | 56.4    | 112.7   |
| 72.5° | 0.0     | 0.0     | 3.3     | 3.3     | 6.6     | 16.6    | 19.9    | 26.5    | 39.8    | 56.4    |
| 75°   | 0.0     | 0.0     | 3.3     | 3.3     | 9.9     | 19.9    | 16.6    | 19.9    | 26.5    | 36.5    |
| 77.5° | 0.0     | 0.0     | 3.3     | 6.6     | 9.9     | 19.9    | 16.6    | 19.9    | 19.9    | 23.2    |
| 80°   | 0.0     | 0.0     | 3.3     | 6.6     | 13.3    | 23.2    | 19.9    | 19.9    | 16.6    | 16.6    |
| 82.5° | 0.0     | 0.0     | 3.3     | 9.9     | 13.3    | 29.8    | 29.8    | 26.5    | 13.3    | 9.9     |
| 85°   | 0.0     | 0.0     | 6.6     | 13.3    | 19.9    | 33.2    | 33.2    | 26.5    | 9.9     | 6.6     |
| 87.5° | 0.0     | 0.0     | 6.6     | 9.9     | 16.6    | 23.2    | 33.2    | 26.5    | 9.9     | 3.3     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 17915.8 | 0°    | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 | 17915.8 |
| 17859.4 | 2.5°  | 17948.9 | 17929.0 | 17995.3 | 18021.8 | 18058.3 | 17919.1 | 17832.9 | 17836.2 | 17677.1 |
| 17657.2 | 5°    | 17763.2 | 17766.6 | 17852.8 | 17846.1 | 17882.6 | 17806.3 | 17773.2 | 17716.8 | 17577.6 |
| 17401.9 | 7.5°  | 17527.9 | 17498.0 | 17580.9 | 17643.9 | 17551.1 | 17604.1 | 17527.9 | 17554.4 | 17471.5 |
| 17176.4 | 10°   | 17345.5 | 17275.9 | 17352.2 | 17395.3 | 17398.6 | 17345.5 | 17272.6 | 17203.0 | 17173.1 |
| 16825.0 | 12.5° | 16941.1 | 16851.5 | 16980.8 | 17040.5 | 17030.6 | 16927.8 | 16844.9 | 16861.5 | 16765.4 |
| 16208.4 | 15°   | 16384.1 | 16387.4 | 16480.2 | 16536.6 | 16483.6 | 16460.3 | 16467.0 | 16427.2 | 16344.3 |
| 15356.4 | 17.5° | 15532.1 | 15581.8 | 15827.1 | 15963.1 | 15992.9 | 15946.5 | 15923.3 | 15876.9 | 15794.0 |
| 13997.1 | 20°   | 14113.1 | 14411.5 | 14849.1 | 15270.2 | 15353.0 | 15339.8 | 15256.9 | 15237.0 | 15190.6 |
| 12651.1 | 22.5° | 12866.6 | 13088.7 | 13595.9 | 14252.4 | 14590.5 | 14623.7 | 14524.2 | 14494.4 | 14444.7 |
| 11447.6 | 25°   | 11576.9 | 11815.6 | 12273.2 | 12985.9 | 13685.5 | 13828.0 | 13811.4 | 13721.9 | 13668.9 |
| 10380.1 | 27.5° | 10489.5 | 10728.2 | 11142.6 | 11785.8 | 12535.1 | 12992.6 | 13035.7 | 12893.1 | 12889.8 |
| 9428.6  | 30°   | 9508.2  | 9836.4  | 10151.4 | 10675.2 | 11401.2 | 12087.5 | 12160.4 | 12061.0 | 12070.9 |
| 8556.7  | 32.5° | 8739.1  | 9010.9  | 9279.5  | 9630.9  | 10234.3 | 11033.2 | 11318.4 | 11225.5 | 11189.1 |
| 7830.7  | 35°   | 7953.3  | 8139.0  | 8414.2  | 8735.8  | 9146.8  | 9939.2  | 10433.2 | 10363.6 | 10327.1 |
| 6849.4  | 37.5° | 7058.2  | 7376.5  | 7575.4  | 7936.8  | 8258.4  | 8888.3  | 9584.5  | 9574.5  | 9498.3  |
| 6013.9  | 40°   | 6139.9  | 6474.7  | 6776.4  | 7141.1  | 7389.8  | 7890.4  | 8662.8  | 8659.5  | 8669.4  |
| 5148.6  | 42.5° | 5307.8  | 5616.1  | 5980.8  | 6378.6  | 6617.3  | 6982.0  | 7810.8  | 7857.2  | 7913.6  |
| 4435.8  | 45°   | 4555.2  | 4833.7  | 5171.8  | 5655.9  | 5944.3  | 6153.2  | 6889.1  | 7101.3  | 7098.0  |
| 3799.3  | 47.5° | 3878.9  | 4140.8  | 4425.9  | 4896.7  | 5264.7  | 5453.6  | 6063.6  | 6365.3  | 6345.4  |
| 3116.4  | 50°   | 3255.6  | 3487.7  | 3786.0  | 4127.5  | 4621.5  | 4787.3  | 5241.5  | 5639.3  | 5609.4  |
| 2483.1  | 52.5° | 2619.1  | 2940.6  | 3192.6  | 3504.2  | 4024.7  | 4187.2  | 4538.6  | 4926.5  | 4903.3  |
| 1863.2  | 55°   | 2042.2  | 2353.8  | 2658.9  | 2927.4  | 3365.0  | 3607.0  | 3859.0  | 4256.8  | 4250.2  |
| 1458.7  | 57.5° | 1544.9  | 1886.4  | 2174.8  | 2430.1  | 2778.2  | 3076.6  | 3278.8  | 3640.2  | 3686.6  |
| 997.9   | 60°   | 1143.8  | 1405.7  | 1717.3  | 2002.4  | 2277.6  | 2585.9  | 2721.8  | 3076.6  | 3096.5  |
| 682.9   | 62.5° | 779.1   | 1067.5  | 1372.5  | 1631.1  | 1836.7  | 2154.9  | 2277.6  | 2569.3  | 2605.8  |
| 437.6   | 65°   | 540.4   | 726.0   | 1074.1  | 1259.8  | 1511.8  | 1783.6  | 1906.3  | 2138.4  | 2211.3  |
| 252.0   | 67.5° | 358.0   | 517.2   | 838.8   | 1007.8  | 1256.5  | 1442.1  | 1598.0  | 1786.9  | 1866.5  |
| 159.1   | 70°   | 195.6   | 381.3   | 600.1   | 795.7   | 1011.2  | 1190.2  | 1342.7  | 1495.2  | 1564.8  |
| 72.9    | 72.5° | 132.6   | 255.3   | 417.7   | 629.9   | 815.6   | 991.3   | 1127.2  | 1239.9  | 1243.2  |
| 43.1    | 75°   | 66.3    | 172.4   | 318.3   | 487.3   | 636.5   | 808.9   | 931.6   | 997.9   | 918.3   |
| 26.5    | 77.5° | 39.8    | 126.0   | 258.6   | 391.2   | 517.2   | 653.1   | 722.7   | 759.2   | 629.9   |
| 19.9    | 80°   | 23.2    | 89.5    | 202.2   | 311.6   | 358.0   | 480.7   | 547.0   | 557.0   | 421.0   |
| 13.3    | 82.5° | 16.6    | 66.3    | 159.1   | 228.8   | 218.8   | 338.2   | 411.1   | 397.8   | 268.5   |
| 9.9     | 85°   | 9.9     | 46.4    | 99.5    | 142.6   | 132.6   | 222.1   | 238.7   | 245.3   | 155.8   |
| 6.6     | 87.5° | 6.6     | 26.5    | 53.0    | 76.3    | 63.0    | 96.1    | 96.1    | 116.0   | 76.3    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
17915.8  
*17471.5*  
17544.4  
17332.3  
17040.5  
16682.5  
16261.4  
15757.5  
15084.5  
14431.4  
13612.5  
12883.2  
12021.2  
11192.4  
10277.4  
9561.3  
8669.4  
7883.7  
7104.6  
6352.1  
5636.0  
4953.0  
4266.8  
3666.7  
3126.3  
2612.4  
2194.7  
1856.6  
1538.3  
1213.4  
858.7  
606.7  
394.5  
248.6  
142.6  
66.3  
0.0

(END OF REPORT)