

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: P638186

Luminaire Tested: **IFLD-L-SA8D-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638186  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42880.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

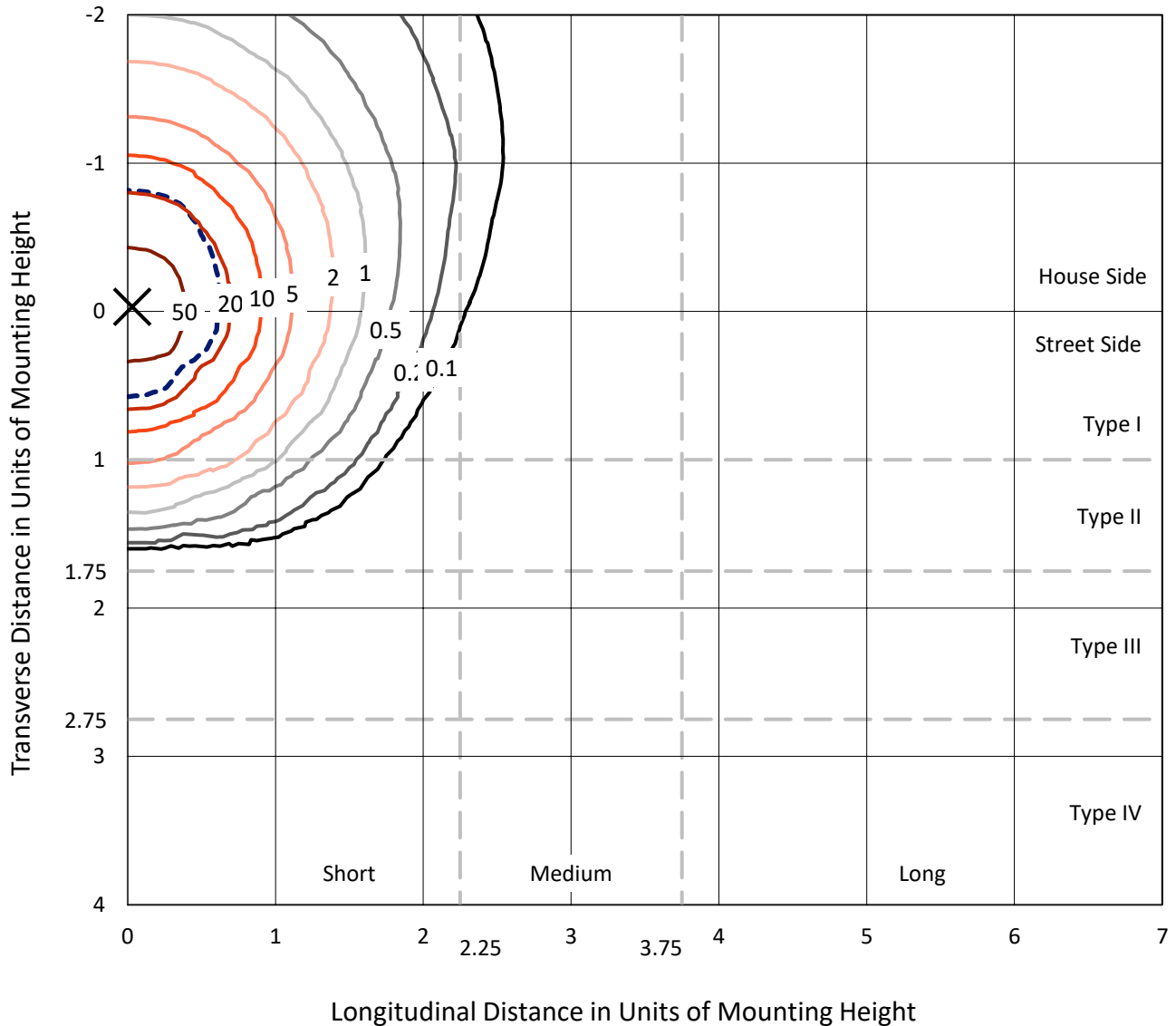
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

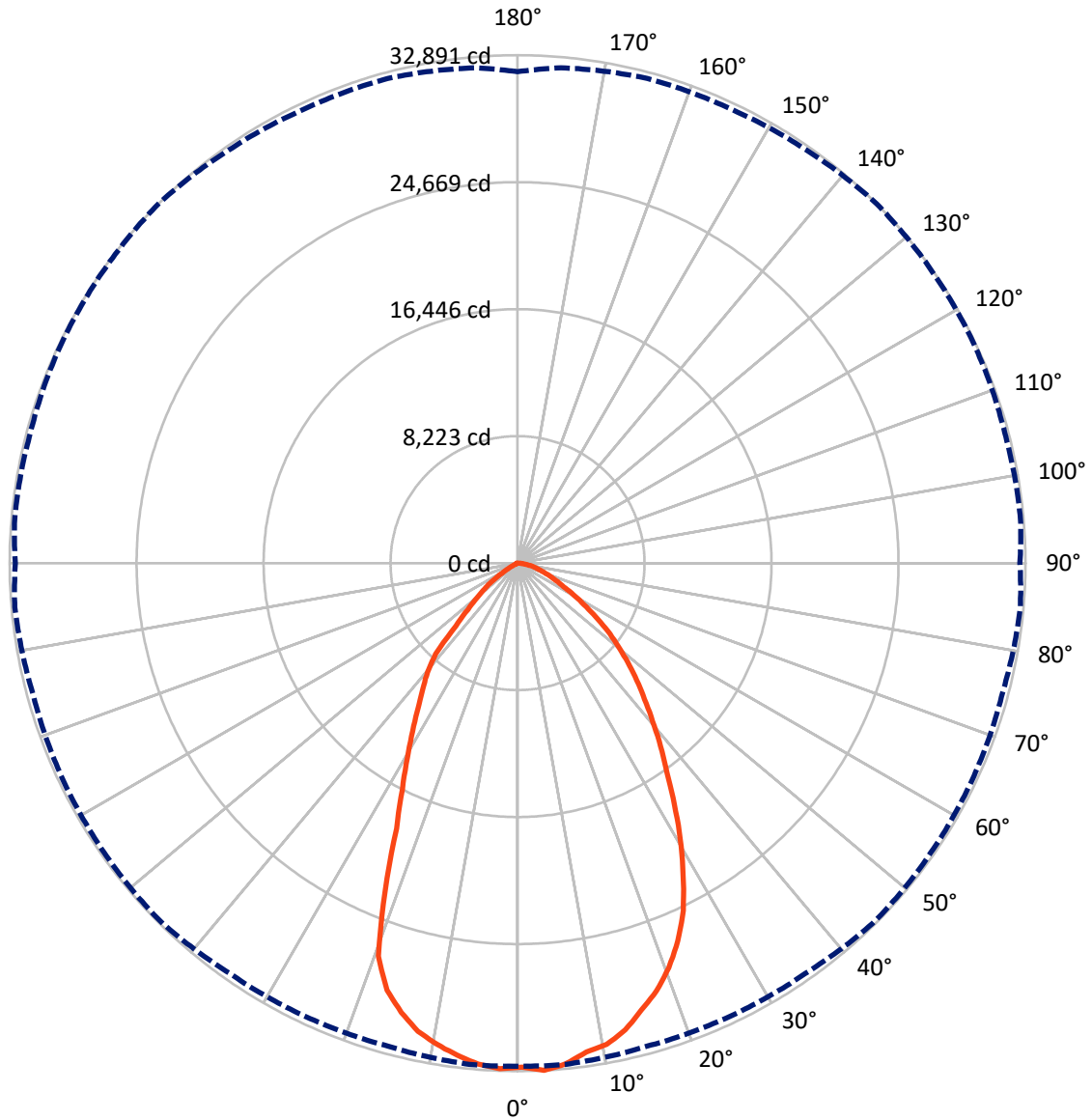
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.6 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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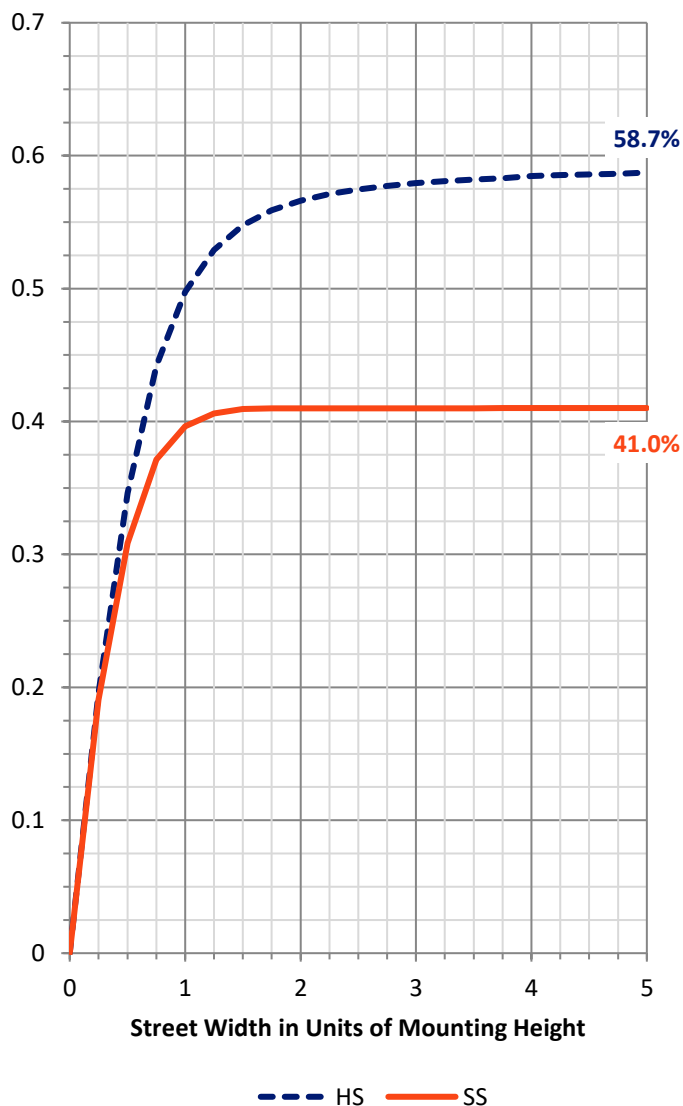
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 25395.9  | 0.0    | 25395.9 |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 17484.4  | 0.0    | 17484.4 |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 42880.2  | 0.0    | 42880.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3060.3  | 7.1       |
| 10°-20°   | 8206.5  | 19.1      |
| 20°-30°   | 10008.3 | 23.3      |
| 30°-40°   | 9137.4  | 21.3      |
| 40°-50°   | 6603.4  | 15.4      |
| 50°-60°   | 3605.5  | 8.4       |
| 60°-70°   | 1490.8  | 3.5       |
| 70°-80°   | 603.8   | 1.4       |
| 80°-90°   | 164.2   | 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°    | 42880.2 | 100.0     |
| 0°-180°   | 42880.2 | 100.0     |



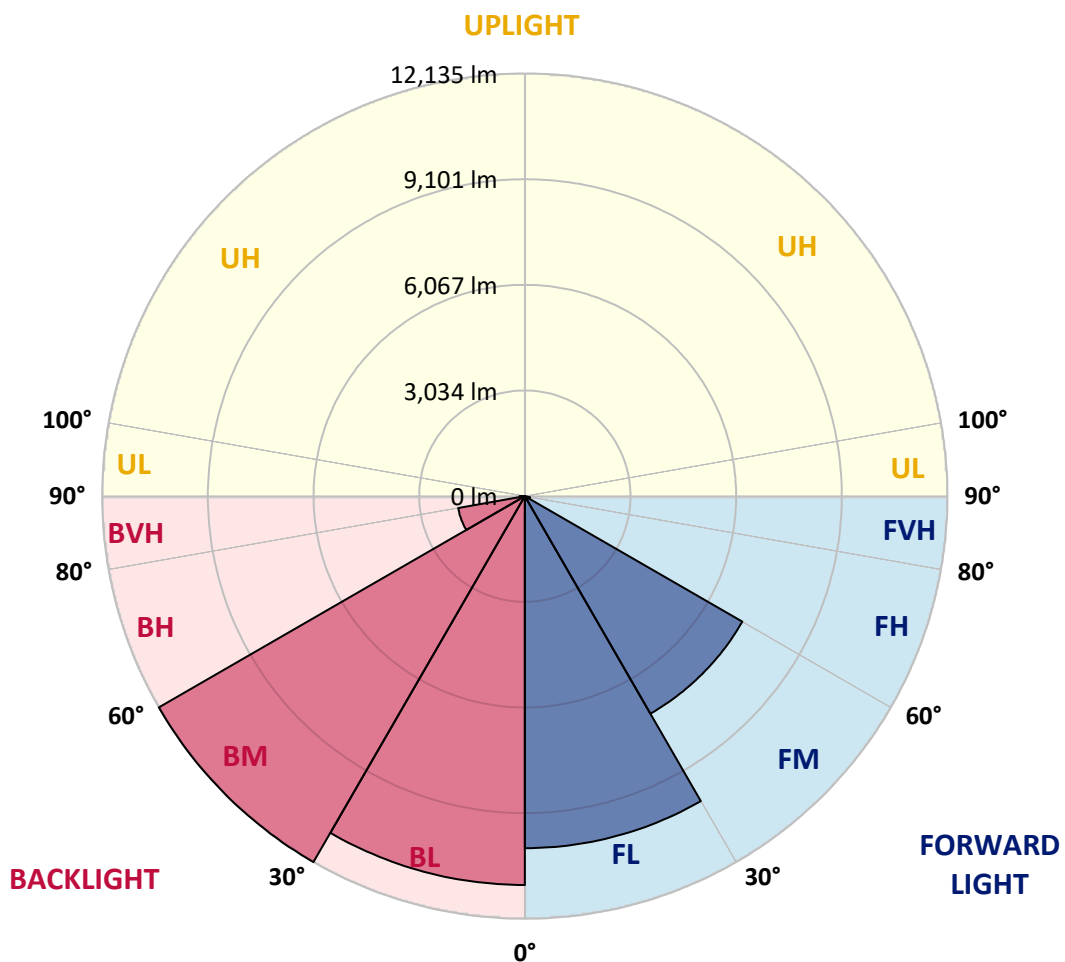
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 10108.5 | 23.6      |                         |      |         |
| FM (30°-60°)   | 7211.7  | 16.8      |                         |      |         |
| FH (60°-80°)   | 151.1   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 13.2    | 0.0       |                         |      | G1/100  |
| BL (0°-30°)    | 11166.6 | 26.0      | B5                      |      |         |
| BM (30°-60°)   | 12134.7 | 28.3      | B5                      |      |         |
| BH (60°-80°)   | 1943.4  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 151.1   | 0.4       |                         |      | G2/225  |
| 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°    | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 |
| 2.5°  | 32571.3 | 32613.6 | 32384.1 | 32408.3 | 32450.6 | 32758.5 | 32680.0 | 32607.6 | 32504.9 | 32680.0 |
| 5°    | 32529.1 | 32553.2 | 32311.7 | 32227.1 | 32263.4 | 32541.1 | 32287.5 | 32287.5 | 32263.4 | 32233.2 |
| 7.5°  | 32203.0 | 32215.1 | 32027.9 | 31876.9 | 31973.5 | 32100.3 | 31913.1 | 32003.7 | 31870.9 | 31973.5 |
| 10°   | 31713.9 | 31635.4 | 31411.9 | 31369.7 | 31478.4 | 31599.1 | 31472.3 | 31556.9 | 31436.1 | 31514.6 |
| 12.5° | 30995.3 | 30874.5 | 30693.4 | 30639.0 | 30826.2 | 30989.3 | 30886.6 | 30838.3 | 30681.3 | 30874.5 |
| 15°   | 28223.7 | 28133.1 | 28543.7 | 29262.3 | 29908.4 | 30047.3 | 29938.6 | 29986.9 | 29660.8 | 29715.1 |
| 17.5° | 23229.9 | 23060.8 | 23501.6 | 25204.4 | 27631.9 | 28912.0 | 28815.4 | 28501.4 | 28018.3 | 28127.0 |
| 20°   | 21110.4 | 21062.1 | 21013.8 | 21418.3 | 23115.1 | 26997.9 | 27130.7 | 26333.6 | 25645.2 | 25494.3 |
| 22.5° | 19914.8 | 19896.6 | 19848.3 | 19938.9 | 20385.8 | 22879.6 | 24401.3 | 23664.6 | 23205.7 | 23163.4 |
| 25°   | 18821.8 | 18791.6 | 18646.7 | 18761.4 | 18761.4 | 18906.3 | 20856.8 | 21303.6 | 20899.0 | 20850.7 |
| 27.5° | 17710.7 | 17656.4 | 17632.2 | 17686.6 | 17408.8 | 16430.6 | 16925.7 | 19105.6 | 18894.3 | 18906.3 |
| 30°   | 16509.1 | 16491.0 | 16424.5 | 16539.3 | 15681.8 | 14468.1 | 14154.1 | 17112.9 | 17155.2 | 17143.1 |
| 32.5° | 14721.7 | 14800.2 | 15102.1 | 15228.9 | 13815.9 | 12813.6 | 12288.2 | 14806.2 | 15669.7 | 15651.6 |
| 35°   | 10694.1 | 10694.1 | 11678.3 | 13508.0 | 12107.1 | 11352.3 | 11068.5 | 12553.9 | 14202.4 | 14262.8 |
| 37.5° | 8792.0  | 8822.2  | 9015.4  | 9848.7  | 10446.5 | 10180.8 | 10096.3 | 10567.3 | 12318.4 | 12415.0 |
| 40°   | 7910.4  | 7910.4  | 7910.4  | 7566.2  | 7548.0  | 9172.4  | 9124.1  | 8973.1  | 10639.7 | 10851.1 |
| 42.5° | 7107.2  | 7125.4  | 7137.4  | 6267.9  | 5784.8  | 7928.5  | 7819.8  | 7590.3  | 9136.2  | 9383.7  |
| 45°   | 6280.0  | 6310.2  | 6346.4  | 5241.4  | 5030.0  | 5706.3  | 6618.1  | 6364.5  | 7650.7  | 7970.7  |
| 47.5° | 3834.4  | 3882.7  | 4703.9  | 4444.3  | 4468.4  | 4402.0  | 5398.4  | 5356.1  | 6273.9  | 6726.8  |
| 50°   | 2590.5  | 2608.6  | 2687.1  | 2819.9  | 3834.4  | 3460.0  | 3822.3  | 4432.2  | 4764.3  | 5452.7  |
| 52.5° | 2173.8  | 2204.0  | 2010.8  | 1829.6  | 2518.0  | 2705.2  | 2669.0  | 3290.9  | 3423.8  | 4275.2  |
| 55°   | 1527.7  | 1624.3  | 1533.8  | 1515.6  | 1431.1  | 2101.4  | 2022.9  | 2530.1  | 2614.6  | 3248.7  |
| 57.5° | 157.0   | 181.2   | 314.0   | 1129.2  | 936.0   | 1189.6  | 1443.2  | 1853.8  | 1938.3  | 2397.3  |
| 60°   | 12.1    | 12.1    | 30.2    | 157.0   | 682.3   | 712.5   | 996.3   | 1141.3  | 1304.3  | 1672.6  |
| 62.5° | 0.0     | 6.0     | 12.1    | 24.2    | 108.7   | 380.4   | 501.2   | 597.8   | 785.0   | 1080.9  |
| 65°   | 0.0     | 0.0     | 6.0     | 18.1    | 24.2    | 144.9   | 193.2   | 314.0   | 428.7   | 670.3   |
| 67.5° | 0.0     | 0.0     | 6.0     | 12.1    | 18.1    | 36.2    | 66.4    | 114.7   | 229.5   | 380.4   |
| 70°   | 0.0     | 0.0     | 6.0     | 12.1    | 18.1    | 30.2    | 48.3    | 72.5    | 102.7   | 205.3   |
| 72.5° | 0.0     | 0.0     | 6.0     | 6.0     | 12.1    | 30.2    | 36.2    | 48.3    | 72.5    | 102.7   |
| 75°   | 0.0     | 0.0     | 6.0     | 6.0     | 18.1    | 36.2    | 30.2    | 36.2    | 48.3    | 66.4    |
| 77.5° | 0.0     | 0.0     | 6.0     | 12.1    | 18.1    | 36.2    | 30.2    | 36.2    | 36.2    | 42.3    |
| 80°   | 0.0     | 0.0     | 6.0     | 12.1    | 24.2    | 42.3    | 36.2    | 36.2    | 30.2    | 30.2    |
| 82.5° | 0.0     | 0.0     | 6.0     | 18.1    | 24.2    | 54.3    | 54.3    | 48.3    | 24.2    | 18.1    |
| 85°   | 0.0     | 0.0     | 12.1    | 24.2    | 36.2    | 60.4    | 60.4    | 48.3    | 18.1    | 12.1    |
| 87.5° | 0.0     | 0.0     | 12.1    | 18.1    | 30.2    | 42.3    | 60.4    | 48.3    | 18.1    | 6.0     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 32631.7 | 0°    | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 | 32631.7 |
| 32529.1 | 2.5°  | 32692.1 | 32655.9 | 32776.6 | 32824.9 | 32891.4 | 32637.8 | 32480.8 | 32486.8 | 32196.9 |
| 32160.7 | 5°    | 32353.9 | 32360.0 | 32517.0 | 32504.9 | 32571.3 | 32432.4 | 32372.1 | 32269.4 | 32015.8 |
| 31695.8 | 7.5°  | 31925.2 | 31870.9 | 32021.8 | 32136.6 | 31967.5 | 32064.1 | 31925.2 | 31973.5 | 31822.6 |
| 31285.1 | 10°   | 31593.1 | 31466.3 | 31605.2 | 31683.7 | 31689.7 | 31593.1 | 31460.3 | 31333.4 | 31279.1 |
| 30645.1 | 12.5° | 30856.4 | 30693.4 | 30928.9 | 31037.6 | 31019.4 | 30832.3 | 30681.3 | 30711.5 | 30536.4 |
| 29521.9 | 15°   | 29842.0 | 29848.0 | 30017.1 | 30119.7 | 30023.1 | 29980.8 | 29992.9 | 29920.5 | 29769.5 |
| 27970.0 | 17.5° | 28290.1 | 28380.7 | 28827.5 | 29075.1 | 29129.4 | 29044.9 | 29002.6 | 28918.1 | 28767.1 |
| 25494.3 | 20°   | 25705.6 | 26249.1 | 27046.2 | 27813.0 | 27964.0 | 27939.8 | 27788.9 | 27752.7 | 27668.1 |
| 23042.7 | 22.5° | 23435.2 | 23839.7 | 24763.6 | 25959.2 | 26575.2 | 26635.5 | 26454.4 | 26400.0 | 26309.5 |
| 20850.7 | 25°   | 21086.2 | 21521.0 | 22354.3 | 23652.6 | 24926.7 | 25186.3 | 25156.1 | 24993.1 | 24896.5 |
| 18906.3 | 27.5° | 19105.6 | 19540.4 | 20295.2 | 21466.6 | 22831.3 | 23664.6 | 23743.1 | 23483.5 | 23477.4 |
| 17173.3 | 30°   | 17318.2 | 17916.0 | 18489.7 | 19443.8 | 20766.2 | 22016.1 | 22149.0 | 21967.8 | 21985.9 |
| 15585.2 | 32.5° | 15917.3 | 16412.5 | 16901.6 | 17541.7 | 18640.7 | 20095.9 | 20615.2 | 20446.1 | 20379.7 |
| 14262.8 | 35°   | 14486.2 | 14824.4 | 15325.6 | 15911.3 | 16660.0 | 18103.2 | 19003.0 | 18876.2 | 18809.7 |
| 12475.4 | 37.5° | 12855.8 | 13435.5 | 13797.8 | 14456.0 | 15041.7 | 16189.0 | 17457.1 | 17439.0 | 17300.1 |
| 10953.7 | 40°   | 11183.2 | 11793.1 | 12342.6 | 13006.8 | 13459.7 | 14371.5 | 15778.4 | 15772.4 | 15790.5 |
| 9377.7  | 42.5° | 9667.5  | 10229.1 | 10893.3 | 11618.0 | 12052.7 | 12716.9 | 14226.6 | 14311.1 | 14413.7 |
| 8079.4  | 45°   | 8296.8  | 8804.0  | 9420.0  | 10301.6 | 10826.9 | 11207.3 | 12547.9 | 12934.3 | 12928.3 |
| 6920.0  | 47.5° | 7065.0  | 7542.0  | 8061.3  | 8918.8  | 9589.0  | 9933.2  | 11044.3 | 11593.8 | 11557.6 |
| 5676.1  | 50°   | 5929.7  | 6352.4  | 6895.9  | 7517.9  | 8417.6  | 8719.5  | 9546.8  | 10271.4 | 10217.0 |
| 4522.8  | 52.5° | 4770.4  | 5356.1  | 5815.0  | 6382.6  | 7330.7  | 7626.5  | 8266.6  | 8973.1  | 8930.8  |
| 3393.6  | 55°   | 3719.7  | 4287.3  | 4842.8  | 5331.9  | 6129.0  | 6569.8  | 7028.7  | 7753.4  | 7741.3  |
| 2656.9  | 57.5° | 2813.9  | 3435.9  | 3961.2  | 4426.2  | 5060.2  | 5603.7  | 5972.0  | 6630.2  | 6714.7  |
| 1817.6  | 60°   | 2083.3  | 2560.3  | 3127.9  | 3647.2  | 4148.4  | 4710.0  | 4957.6  | 5603.7  | 5639.9  |
| 1243.9  | 62.5° | 1419.0  | 1944.4  | 2499.9  | 2970.9  | 3345.3  | 3925.0  | 4148.4  | 4679.8  | 4746.2  |
| 797.1   | 65°   | 984.3   | 1322.4  | 1956.5  | 2294.6  | 2753.5  | 3248.7  | 3472.1  | 3894.8  | 4027.6  |
| 458.9   | 67.5° | 652.2   | 942.0   | 1527.7  | 1835.7  | 2288.6  | 2626.7  | 2910.5  | 3254.7  | 3399.6  |
| 289.8   | 70°   | 356.3   | 694.4   | 1093.0  | 1449.2  | 1841.7  | 2167.8  | 2445.6  | 2723.3  | 2850.1  |
| 132.8   | 72.5° | 241.5   | 465.0   | 760.8   | 1147.3  | 1485.5  | 1805.5  | 2053.1  | 2258.4  | 2264.4  |
| 78.5    | 75°   | 120.8   | 314.0   | 579.7   | 887.7   | 1159.4  | 1473.4  | 1696.8  | 1817.6  | 1672.6  |
| 48.3    | 77.5° | 72.5    | 229.5   | 471.0   | 712.5   | 942.0   | 1189.6  | 1316.4  | 1382.8  | 1147.3  |
| 36.2    | 80°   | 42.3    | 163.0   | 368.3   | 567.6   | 652.2   | 875.6   | 996.3   | 1014.5  | 766.9   |
| 24.2    | 82.5° | 30.2    | 120.8   | 289.8   | 416.7   | 398.5   | 615.9   | 748.8   | 724.6   | 489.1   |
| 18.1    | 85°   | 18.1    | 84.5    | 181.2   | 259.7   | 241.5   | 404.6   | 434.8   | 446.8   | 283.8   |
| 12.1    | 87.5° | 12.1    | 48.3    | 96.6    | 138.9   | 114.7   | 175.1   | 175.1   | 211.3   | 138.9   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





| 180°    |
|---------|
| 32631.7 |
| 31822.6 |
| 31955.4 |
| 31568.9 |
| 31037.6 |
| 30385.4 |
| 29618.5 |
| 28700.7 |
| 27474.9 |
| 26285.3 |
| 24793.8 |
| 23465.4 |
| 21895.4 |
| 20385.8 |
| 18719.2 |
| 17414.9 |
| 15790.5 |
| 14359.4 |
| 12940.4 |
| 11569.6 |
| 10265.3 |
| 9021.4  |
| 7771.5  |
| 6678.5  |
| 5694.2  |
| 4758.3  |
| 3997.4  |
| 3381.5  |
| 2801.8  |
| 2210.1  |
| 1564.0  |
| 1105.0  |
| 718.6   |
| 452.9   |
| 259.7   |
| 120.8   |
| 0.0     |

(END OF REPORT)