

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: P637538

Luminaire Tested: **IFLD-M-SA4D-722-U-55-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637538  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5  
distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21646 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 249.7  
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



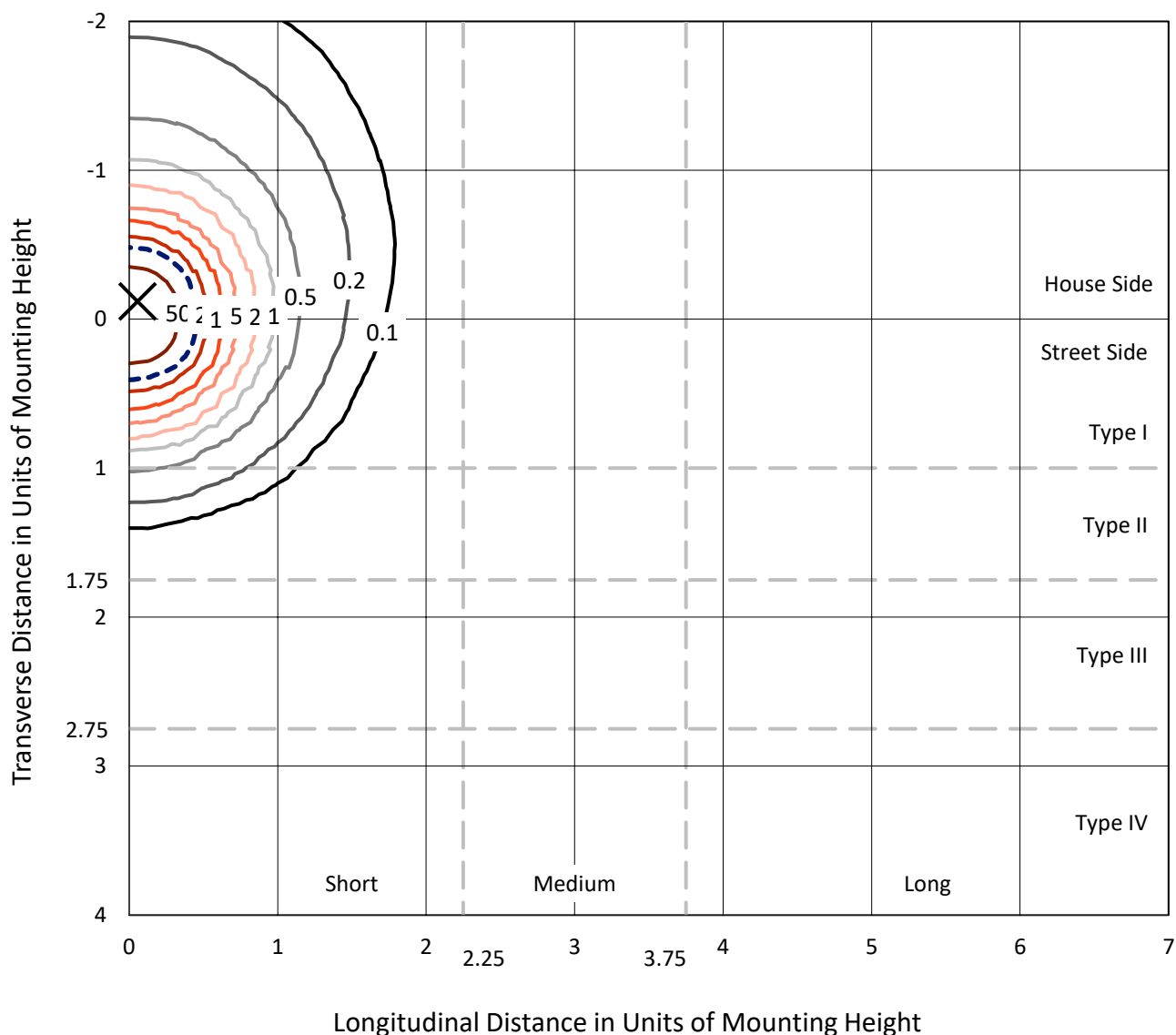
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

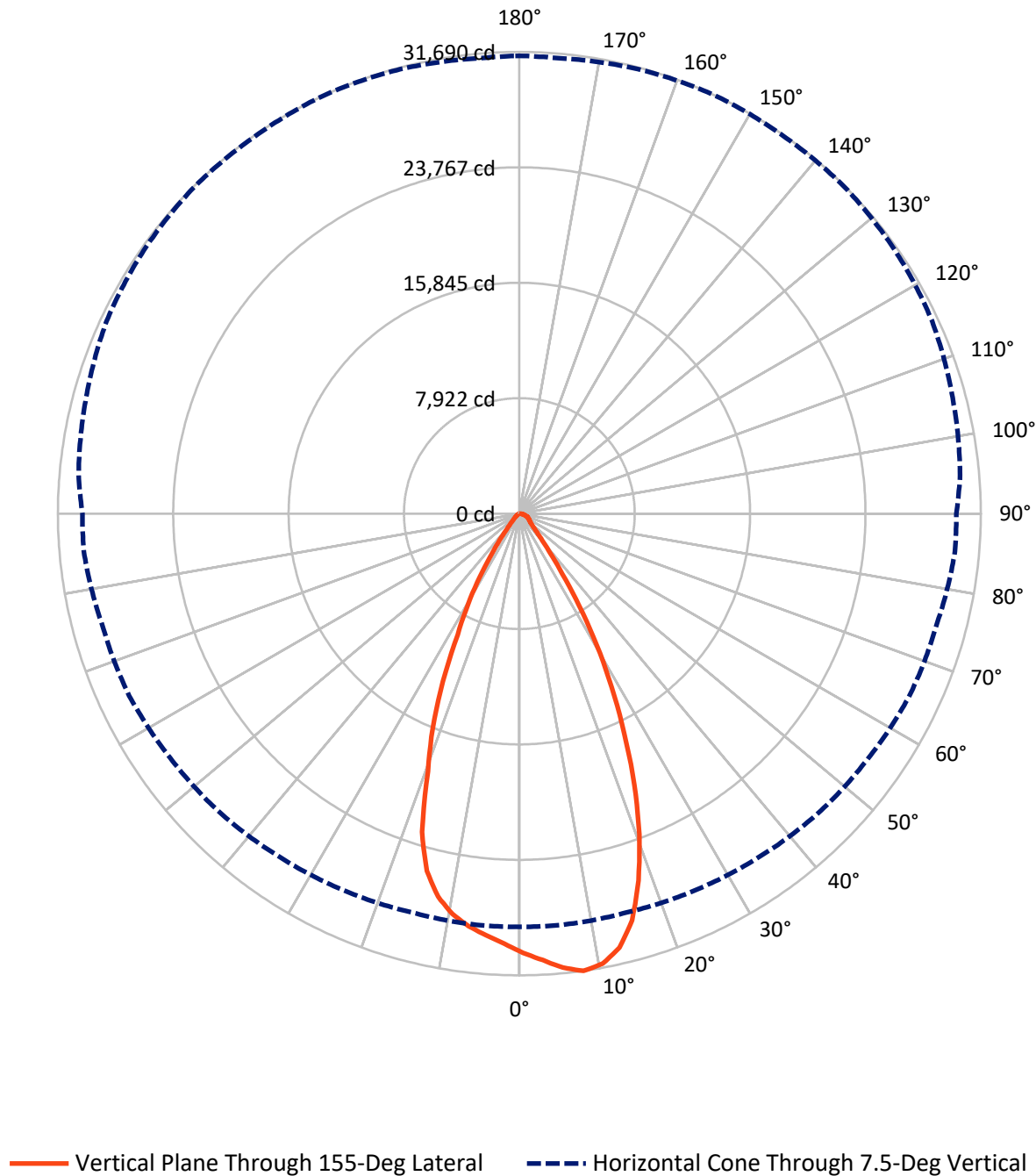


Based on 20 foot mounting height. Maximum calculated value = 76.6 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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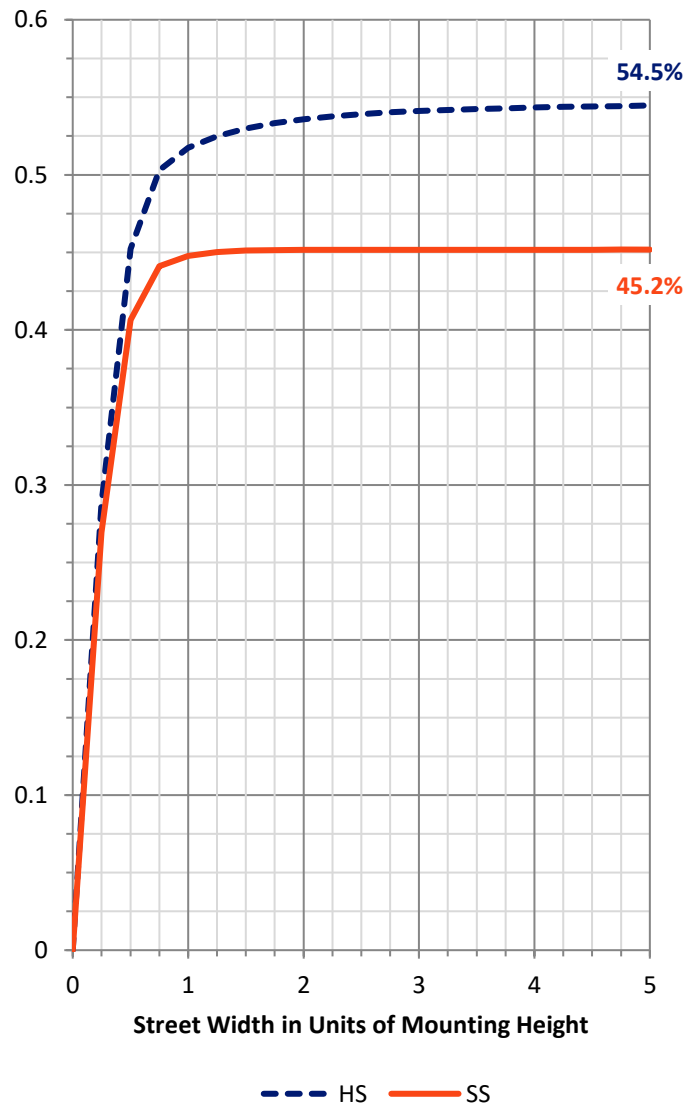
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11949.3  | 0.0    | 11949.3 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 9696.6   | 0.0    | 9696.6  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 21646.0  | 0.0    | 21646.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2875.4  | 13.3      |
| 10°-20°   | 7456.0  | 34.4      |
| 20°-30°   | 6831.8  | 31.6      |
| 30°-40°   | 2760.0  | 12.8      |
| 40°-50°   | 809.7   | 3.7       |
| 50°-60°   | 452.7   | 2.1       |
| 60°-70°   | 275.0   | 1.3       |
| 70°-80°   | 139.7   | 0.6       |
| 80°-90°   | 45.7    | 0.2       |
| 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°    | 21646.0 | 100.0     |
| 0°-180°   | 21646.0 | 100.0     |

**Coefficient of Utilization**



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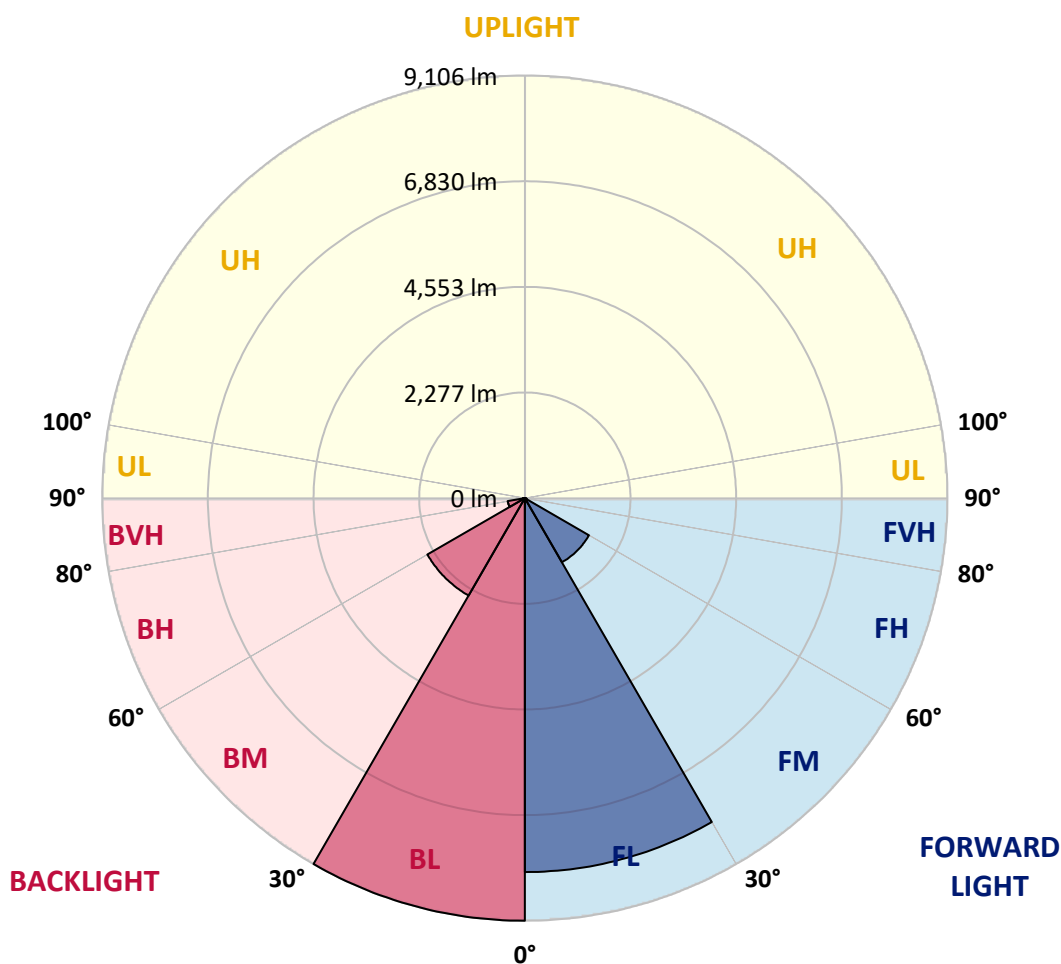
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 8057.2 | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 1596.8 | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 38.7   | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.0    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 9106.0 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 2425.6 | 11.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 376.0  | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 41.7   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 |
| 2.5°  | 29500.5 | 29600.4 | 29400.7 | 29533.0 | 29635.3 | 29879.9 | 29899.9 | 29984.7 | 30014.7 | 30236.8 |
| 5°    | 28941.4 | 29018.8 | 28856.5 | 29033.8 | 29178.5 | 29395.7 | 29562.9 | 29797.5 | 29927.3 | 30189.4 |
| 7.5°  | 28359.8 | 28377.3 | 28344.9 | 28532.1 | 28749.2 | 29048.7 | 29255.9 | 29562.9 | 29642.8 | 30017.2 |
| 10°   | 27656.0 | 27528.7 | 27591.1 | 27865.6 | 28190.1 | 28649.4 | 28791.6 | 29098.7 | 29240.9 | 29622.8 |
| 12.5° | 26532.7 | 26597.6 | 26520.3 | 26869.7 | 27139.3 | 27660.9 | 27810.7 | 28120.2 | 28392.3 | 28729.2 |
| 15°   | 24950.3 | 24912.8 | 25070.1 | 25342.1 | 25634.2 | 26048.5 | 26290.6 | 26627.6 | 26834.8 | 27184.2 |
| 17.5° | 21393.4 | 21520.7 | 22169.7 | 22851.1 | 23450.2 | 23934.4 | 24223.9 | 24503.5 | 24653.2 | 25032.6 |
| 20°   | 18475.6 | 18315.8 | 18403.2 | 18787.6 | 20492.4 | 21233.7 | 21538.2 | 21605.6 | 21668.0 | 21967.5 |
| 22.5° | 15213.3 | 15160.9 | 15452.9 | 15884.7 | 16289.1 | 17998.8 | 18413.2 | 18255.9 | 18385.7 | 18667.8 |
| 25°   | 11297.0 | 11561.6 | 11821.2 | 12649.9 | 13174.0 | 14012.7 | 14798.9 | 14868.8 | 14916.2 | 15093.5 |
| 27.5° | 9195.4  | 9103.0  | 9098.0  | 9330.1  | 10103.9 | 10802.8 | 11471.7 | 11626.5 | 11599.0 | 11768.8 |
| 30°   | 7228.5  | 7198.5  | 7093.7  | 7148.6  | 7071.2  | 7692.7  | 8007.2  | 8643.7  | 8608.8  | 8613.8  |
| 32.5° | 5214.2  | 5101.9  | 5059.4  | 5141.8  | 5061.9  | 5004.5  | 5279.1  | 5997.9  | 5985.5  | 6035.4  |
| 35°   | 3155.0  | 3140.0  | 3174.9  | 3247.3  | 3087.6  | 3082.6  | 3140.0  | 3816.4  | 3898.8  | 3978.7  |
| 37.5° | 1742.2  | 1727.2  | 1754.7  | 2021.8  | 1969.4  | 1921.9  | 1936.9  | 2293.8  | 2531.0  | 2590.9  |
| 40°   | 1148.2  | 1145.7  | 1165.6  | 1213.1  | 1302.9  | 1285.5  | 1292.9  | 1452.7  | 1677.3  | 1729.7  |
| 42.5° | 768.8   | 771.3   | 783.8   | 838.7   | 851.1   | 941.0   | 926.0   | 963.5   | 1173.1  | 1218.1  |
| 45°   | 614.0   | 611.5   | 619.0   | 594.1   | 609.0   | 701.4   | 711.4   | 713.9   | 893.6   | 921.0   |
| 47.5° | 484.2   | 484.2   | 491.7   | 459.3   | 451.8   | 509.2   | 561.6   | 569.1   | 713.9   | 751.3   |
| 50°   | 339.5   | 339.5   | 376.9   | 361.9   | 379.4   | 396.9   | 454.3   | 461.8   | 584.1   | 624.0   |
| 52.5° | 249.6   | 254.6   | 259.6   | 262.1   | 319.5   | 317.0   | 366.9   | 401.9   | 441.8   | 511.7   |
| 55°   | 189.7   | 194.7   | 182.2   | 194.7   | 237.1   | 264.6   | 274.6   | 324.5   | 351.9   | 429.3   |
| 57.5° | 124.8   | 137.3   | 127.3   | 149.8   | 159.7   | 204.7   | 219.7   | 267.1   | 284.5   | 351.9   |
| 60°   | 17.5    | 20.0    | 32.4    | 104.8   | 112.3   | 134.8   | 169.7   | 212.2   | 229.6   | 287.0   |
| 62.5° | 2.5     | 2.5     | 7.5     | 17.5    | 74.9    | 89.9    | 127.3   | 147.3   | 169.7   | 214.7   |
| 65°   | 0.0     | 0.0     | 2.5     | 5.0     | 15.0    | 52.4    | 64.9    | 79.9    | 117.3   | 154.8   |
| 67.5° | 0.0     | 0.0     | 2.5     | 5.0     | 7.5     | 17.5    | 27.5    | 52.4    | 67.4    | 107.3   |
| 70°   | 0.0     | 0.0     | 2.5     | 5.0     | 7.5     | 10.0    | 15.0    | 20.0    | 39.9    | 62.4    |
| 72.5° | 0.0     | 0.0     | 2.5     | 5.0     | 7.5     | 10.0    | 12.5    | 15.0    | 17.5    | 39.9    |
| 75°   | 0.0     | 0.0     | 2.5     | 5.0     | 7.5     | 12.5    | 15.0    | 15.0    | 15.0    | 17.5    |
| 77.5° | 0.0     | 0.0     | 2.5     | 5.0     | 10.0    | 15.0    | 17.5    | 15.0    | 12.5    | 12.5    |
| 80°   | 0.0     | 0.0     | 2.5     | 7.5     | 12.5    | 17.5    | 20.0    | 15.0    | 10.0    | 7.5     |
| 82.5° | 0.0     | 0.0     | 2.5     | 7.5     | 12.5    | 17.5    | 20.0    | 17.5    | 10.0    | 7.5     |
| 85°   | 0.0     | 0.0     | 2.5     | 7.5     | 10.0    | 12.5    | 20.0    | 17.5    | 10.0    | 5.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.5     | 2.5     | 5.0     | 10.0    | 7.5     | 5.0     | 2.5     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30154.5 | 0°    | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 | 30154.5 |
| 30231.9 | 2.5°  | 30456.5 | 30568.8 | 30766.0 | 30820.9 | 30990.6 | 30796.0 | 30688.6 | 30698.6 | 30466.5 |
| 30157.0 | 5°    | 30456.5 | 30713.6 | 31058.0 | 31222.8 | 31347.6 | 31337.6 | 31310.1 | 31240.2 | 31070.5 |
| 30007.2 | 7.5°  | 30376.6 | 30796.0 | 31270.2 | 31489.8 | 31639.6 | 31627.1 | 31689.5 | 31577.2 | 31370.0 |
| 29740.1 | 10°   | 30119.5 | 30484.0 | 31068.0 | 31247.7 | 31489.8 | 31494.8 | 31417.5 | 31439.9 | 31070.5 |
| 28764.2 | 12.5° | 29310.8 | 29595.4 | 30107.1 | 30311.7 | 30606.3 | 30653.7 | 30568.8 | 30536.4 | 30186.9 |
| 27164.2 | 15°   | 27745.8 | 27910.5 | 28424.7 | 28629.4 | 28921.4 | 28881.5 | 28966.4 | 28931.4 | 28624.4 |
| 25002.7 | 17.5° | 25457.0 | 25509.4 | 26048.5 | 26220.7 | 26495.3 | 26602.6 | 26475.3 | 26637.6 | 26373.0 |
| 22019.9 | 20°   | 22174.7 | 22456.7 | 23063.3 | 23327.8 | 23487.6 | 23679.8 | 23512.6 | 23694.8 | 23385.3 |
| 18400.7 | 22.5° | 18845.0 | 19012.2 | 19561.3 | 19943.2 | 20240.3 | 20277.7 | 20215.3 | 20342.6 | 19925.8 |
| 15210.8 | 25°   | 15208.3 | 15485.3 | 15919.6 | 16418.9 | 16710.9 | 16890.6 | 16728.4 | 16810.7 | 16743.3 |
| 11796.2 | 27.5° | 11995.9 | 12243.0 | 12570.0 | 12941.9 | 13381.2 | 13615.8 | 13486.0 | 13625.8 | 13296.3 |
| 8796.0  | 30°   | 8803.5  | 8928.3  | 9297.7  | 9692.1  | 10173.8 | 10458.3 | 10470.8 | 10613.1 | 10418.4 |
| 6162.7  | 32.5° | 6207.6  | 6317.4  | 6544.6  | 6806.7  | 7265.9  | 7582.9  | 7533.0  | 7553.0  | 7433.2  |
| 4016.1  | 35°   | 4036.1  | 4183.3  | 4345.6  | 4470.4  | 4747.4  | 5096.9  | 5069.4  | 5044.5  | 4962.1  |
| 2640.8  | 37.5° | 2698.2  | 2755.6  | 2845.5  | 2957.8  | 3137.5  | 3357.2  | 3429.5  | 3339.7  | 3304.7  |
| 1782.2  | 40°   | 1824.6  | 1924.4  | 1984.3  | 2069.2  | 2154.1  | 2338.8  | 2388.7  | 2371.2  | 2336.3  |
| 1248.0  | 42.5° | 1295.4  | 1372.8  | 1447.7  | 1530.1  | 1575.0  | 1689.8  | 1787.2  | 1759.7  | 1744.7  |
| 948.5   | 45°   | 983.4   | 1053.3  | 1140.7  | 1203.1  | 1248.0  | 1315.4  | 1407.8  | 1417.7  | 1395.3  |
| 761.3   | 47.5° | 788.7   | 851.1   | 921.0   | 998.4   | 1050.8  | 1093.3  | 1173.1  | 1203.1  | 1188.1  |
| 641.5   | 50°   | 668.9   | 716.4   | 783.8   | 861.1   | 918.5   | 956.0   | 1025.9  | 1058.3  | 1048.3  |
| 536.6   | 52.5° | 569.1   | 626.5   | 688.9   | 753.8   | 823.7   | 861.1   | 926.0   | 973.4   | 966.0   |
| 444.3   | 55°   | 471.7   | 546.6   | 611.5   | 676.4   | 756.3   | 793.7   | 851.1   | 913.5   | 901.1   |
| 376.9   | 57.5° | 411.8   | 474.2   | 541.6   | 604.0   | 688.9   | 738.8   | 791.2   | 856.1   | 853.6   |
| 309.5   | 60°   | 344.5   | 406.9   | 481.7   | 534.1   | 624.0   | 693.9   | 741.3   | 808.7   | 813.7   |
| 234.6   | 62.5° | 274.6   | 351.9   | 409.3   | 481.7   | 564.1   | 646.5   | 691.4   | 758.8   | 783.8   |
| 179.7   | 65°   | 204.7   | 289.5   | 354.4   | 426.8   | 504.2   | 596.5   | 636.5   | 703.9   | 728.8   |
| 129.8   | 67.5° | 152.3   | 217.2   | 299.5   | 361.9   | 449.3   | 529.2   | 576.6   | 639.0   | 656.5   |
| 77.4    | 70°   | 114.8   | 167.2   | 249.6   | 304.5   | 394.4   | 459.3   | 506.7   | 554.1   | 576.6   |
| 52.4    | 72.5° | 67.4    | 124.8   | 197.2   | 262.1   | 339.5   | 394.4   | 429.3   | 466.8   | 481.7   |
| 25.0    | 75°   | 47.4    | 94.8    | 154.8   | 217.2   | 274.6   | 319.5   | 351.9   | 384.4   | 399.4   |
| 12.5    | 77.5° | 25.0    | 69.9    | 122.3   | 174.7   | 214.7   | 252.1   | 284.5   | 309.5   | 319.5   |
| 10.0    | 80°   | 15.0    | 49.9    | 99.8    | 137.3   | 164.7   | 197.2   | 229.6   | 247.1   | 244.6   |
| 7.5     | 82.5° | 10.0    | 39.9    | 72.4    | 99.8    | 119.8   | 144.8   | 167.2   | 179.7   | 179.7   |
| 5.0     | 85°   | 7.5     | 27.5    | 49.9    | 77.4    | 79.9    | 99.8    | 104.8   | 117.3   | 119.8   |
| 5.0     | 87.5° | 5.0     | 17.5    | 27.5    | 44.9    | 42.4    | 52.4    | 54.9    | 62.4    | 67.4    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 30154.5 |
| 30279.3 |
| 31125.4 |
| 31417.5 |
| 30963.2 |
| 30107.1 |
| 28721.8 |
| 26308.1 |
| 23360.3 |
| 19868.4 |
| 16700.9 |
| 13381.2 |
| 10453.4 |
| 7500.6  |
| 4889.7  |
| 3297.2  |
| 2341.3  |
| 1732.2  |
| 1392.8  |
| 1180.6  |
| 1045.8  |
| 961.0   |
| 901.1   |
| 851.1   |
| 813.7   |
| 781.3   |
| 726.3   |
| 656.5   |
| 571.6   |
| 476.7   |
| 394.4   |
| 317.0   |
| 242.1   |
| 177.2   |
| 117.3   |
| 64.9    |
| 0.0     |

(END OF REPORT)