

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: P637561

Luminaire Tested: **IFLD-S-SA6C-727-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637561  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32641.9 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

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



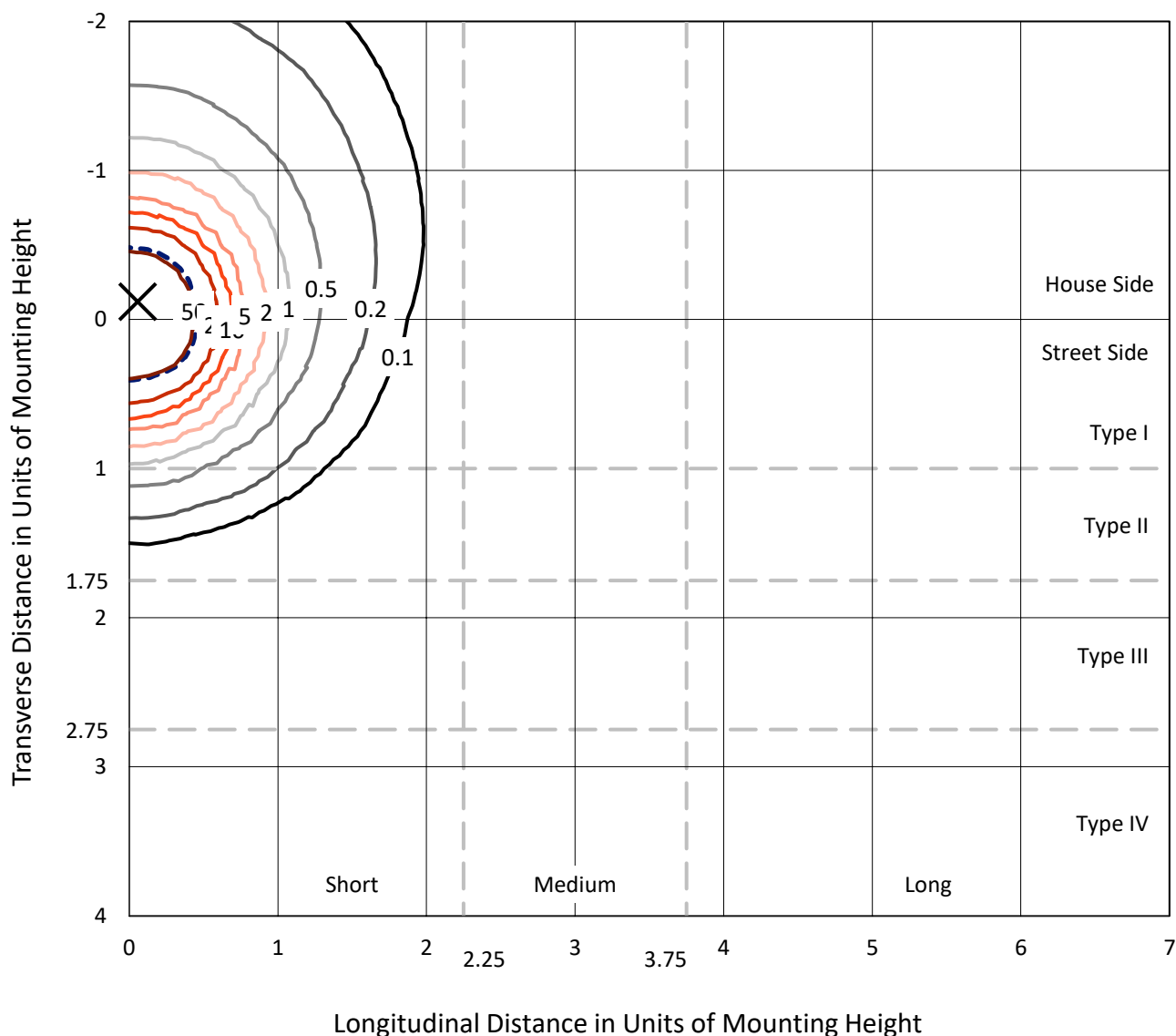
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

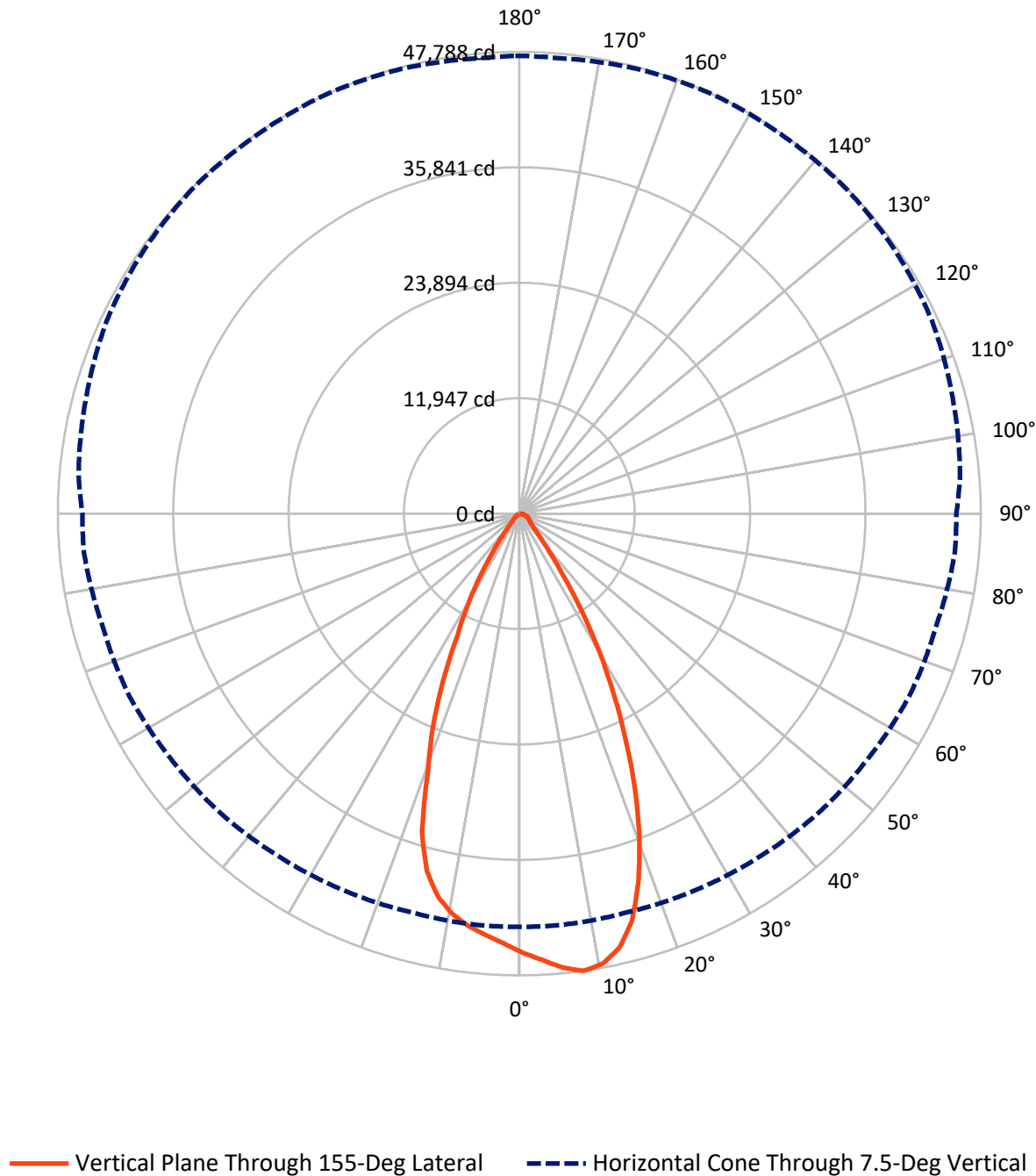


Based on 20 foot mounting height. Maximum calculated value = 115.6 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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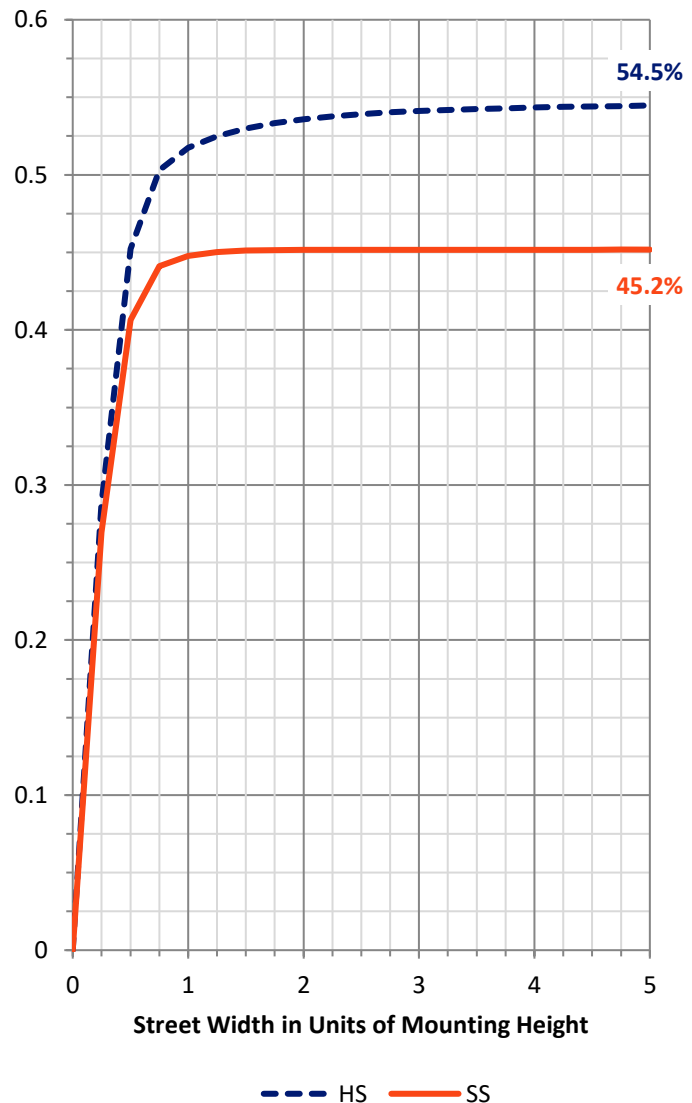
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18019.5  | 0.0    | 18019.5 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 14622.4  | 0.0    | 14622.4 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 32641.9  | 0.0    | 32641.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4336.1  | 13.3      |
| 10°-20°   | 11243.6 | 34.4      |
| 20°-30°   | 10302.3 | 31.6      |
| 30°-40°   | 4162.1  | 12.8      |
| 40°-50°   | 1221.0  | 3.7       |
| 50°-60°   | 682.7   | 2.1       |
| 60°-70°   | 414.6   | 1.3       |
| 70°-80°   | 210.7   | 0.6       |
| 80°-90°   | 68.9    | 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°    | 32641.9 | 100.0     |
| 0°-180°   | 32641.9 | 100.0     |

**Coefficient of Utilization**



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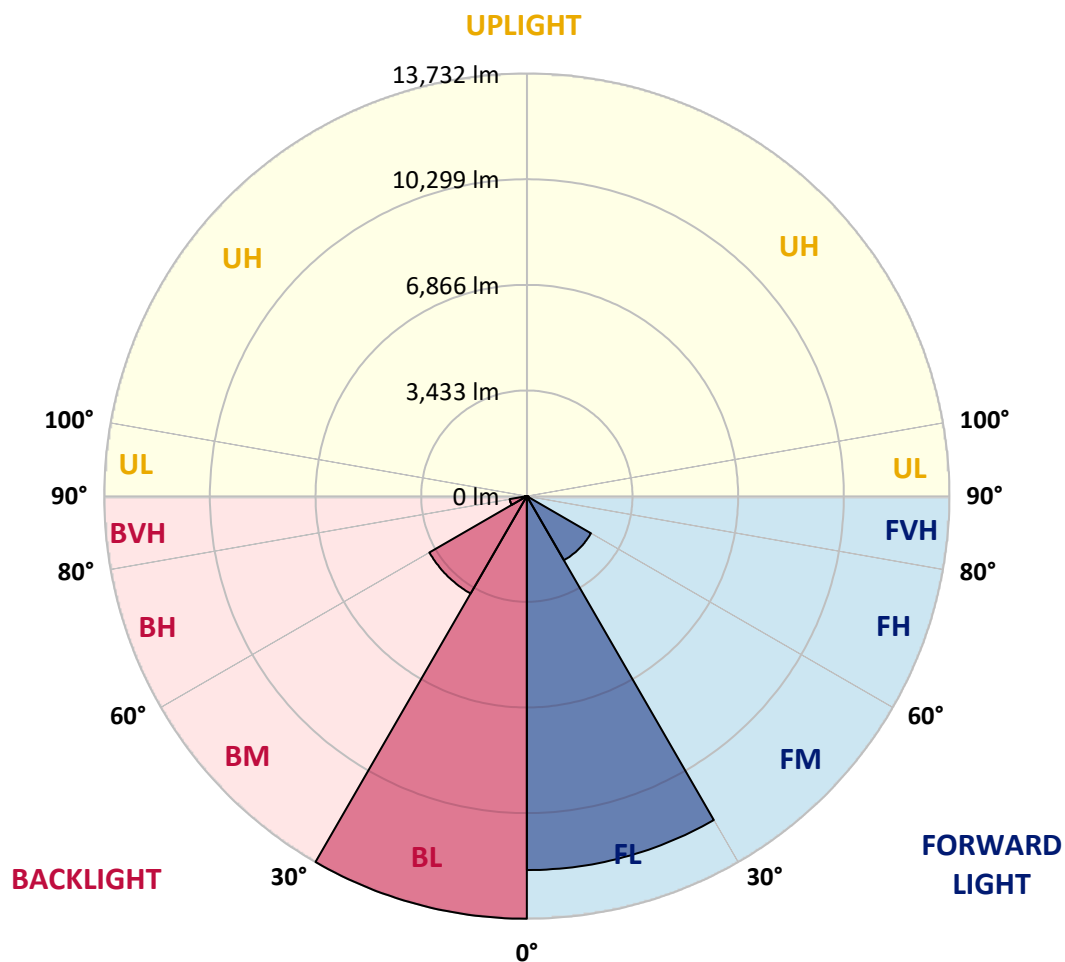
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 12150.1 | 37.2      |                         |      |         |
| FM   | (30°-60°)   | 2407.9  | 7.4       |                         |      |         |
| FH   | (60°-80°)   | 58.3    | 0.2       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 6.0     | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 13731.8 | 42.1      | B5                      |      |         |
| BM   | (30°-60°)   | 3657.8  | 11.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 567.0   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 62.9    | 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-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 |
| 2.5°  | 44486.6 | 44637.1 | 44336.0 | 44535.5 | 44689.8 | 45058.7 | 45088.8 | 45216.8 | 45261.9 | 45596.9 |
| 5°    | 43643.4 | 43760.1 | 43515.4 | 43782.7 | 44001.0 | 44328.5 | 44580.7 | 44934.5 | 45130.2 | 45525.4 |
| 7.5°  | 42766.4 | 42792.8 | 42743.8 | 43026.1 | 43353.6 | 43805.3 | 44117.7 | 44580.7 | 44701.1 | 45265.7 |
| 10°   | 41705.0 | 41513.0 | 41607.1 | 42021.1 | 42510.5 | 43203.0 | 43417.6 | 43880.6 | 44095.1 | 44671.0 |
| 12.5° | 40011.2 | 40109.0 | 39992.4 | 40519.3 | 40925.8 | 41712.5 | 41938.3 | 42405.1 | 42815.3 | 43323.5 |
| 15°   | 37624.8 | 37568.3 | 37805.5 | 38215.8 | 38656.1 | 39281.0 | 39646.1 | 40154.2 | 40466.6 | 40993.6 |
| 17.5° | 32261.1 | 32453.1 | 33431.7 | 34459.3 | 35362.7 | 36092.9 | 36529.5 | 36951.1 | 37176.9 | 37749.0 |
| 20°   | 27861.0 | 27620.1 | 27751.9 | 28331.5 | 30902.3 | 32020.2 | 32479.4 | 32581.1 | 32675.2 | 33126.8 |
| 22.5° | 22941.5 | 22862.5 | 23302.8 | 23954.0 | 24563.8 | 27142.1 | 27766.9 | 27529.8 | 27725.5 | 28150.9 |
| 25°   | 17035.8 | 17434.8 | 17826.2 | 19075.9 | 19866.3 | 21131.0 | 22316.7 | 22422.1 | 22493.6 | 22760.8 |
| 27.5° | 13866.5 | 13727.3 | 13719.7 | 14069.8 | 15236.6 | 16290.5 | 17299.3 | 17532.6 | 17491.2 | 17747.2 |
| 30°   | 10900.5 | 10855.3 | 10697.2 | 10780.1 | 10663.4 | 11600.6 | 12074.9 | 13034.7 | 12982.0 | 12989.5 |
| 32.5° | 7863.0  | 7693.6  | 7629.6  | 7753.8  | 7633.4  | 7546.8  | 7960.8  | 9044.9  | 9026.0  | 9101.3  |
| 35°   | 4757.7  | 4735.1  | 4787.8  | 4896.9  | 4656.1  | 4648.5  | 4735.1  | 5755.1  | 5879.3  | 5999.8  |
| 37.5° | 2627.3  | 2604.7  | 2646.1  | 3048.8  | 2969.8  | 2898.3  | 2920.9  | 3459.1  | 3816.7  | 3907.0  |
| 40°   | 1731.4  | 1727.7  | 1757.8  | 1829.3  | 1964.8  | 1938.5  | 1949.7  | 2190.6  | 2529.4  | 2608.4  |
| 42.5° | 1159.3  | 1163.1  | 1181.9  | 1264.7  | 1283.5  | 1419.0  | 1396.4  | 1452.9  | 1769.1  | 1836.8  |
| 45°   | 925.9   | 922.2   | 933.5   | 895.8   | 918.4   | 1057.7  | 1072.7  | 1076.5  | 1347.5  | 1388.9  |
| 47.5° | 730.2   | 730.2   | 741.5   | 692.6   | 681.3   | 767.9   | 846.9   | 858.2   | 1076.5  | 1133.0  |
| 50°   | 511.9   | 511.9   | 568.4   | 545.8   | 572.1   | 598.5   | 685.0   | 696.3   | 880.8   | 941.0   |
| 52.5° | 376.4   | 383.9   | 391.5   | 395.2   | 481.8   | 478.0   | 553.3   | 606.0   | 666.2   | 771.6   |
| 55°   | 286.1   | 293.6   | 274.8   | 293.6   | 357.6   | 399.0   | 414.0   | 489.3   | 530.7   | 647.4   |
| 57.5° | 188.2   | 207.0   | 192.0   | 225.8   | 240.9   | 308.6   | 331.2   | 402.7   | 429.1   | 530.7   |
| 60°   | 26.3    | 30.1    | 48.9    | 158.1   | 169.4   | 203.3   | 256.0   | 319.9   | 346.3   | 432.9   |
| 62.5° | 3.8     | 3.8     | 11.3    | 26.3    | 112.9   | 135.5   | 192.0   | 222.1   | 256.0   | 323.7   |
| 65°   | 0.0     | 0.0     | 3.8     | 7.5     | 22.6    | 79.0    | 97.9    | 120.4   | 176.9   | 233.4   |
| 67.5° | 0.0     | 0.0     | 3.8     | 7.5     | 11.3    | 26.3    | 41.4    | 79.0    | 101.6   | 161.9   |
| 70°   | 0.0     | 0.0     | 3.8     | 7.5     | 11.3    | 15.1    | 22.6    | 30.1    | 60.2    | 94.1    |
| 72.5° | 0.0     | 0.0     | 3.8     | 7.5     | 11.3    | 15.1    | 18.8    | 22.6    | 26.3    | 60.2    |
| 75°   | 0.0     | 0.0     | 3.8     | 7.5     | 11.3    | 18.8    | 22.6    | 22.6    | 22.6    | 26.3    |
| 77.5° | 0.0     | 0.0     | 3.8     | 7.5     | 15.1    | 22.6    | 26.3    | 22.6    | 18.8    | 18.8    |
| 80°   | 0.0     | 0.0     | 3.8     | 11.3    | 18.8    | 26.3    | 30.1    | 22.6    | 15.1    | 11.3    |
| 82.5° | 0.0     | 0.0     | 3.8     | 11.3    | 18.8    | 26.3    | 30.1    | 26.3    | 15.1    | 11.3    |
| 85°   | 0.0     | 0.0     | 3.8     | 11.3    | 15.1    | 18.8    | 30.1    | 26.3    | 15.1    | 7.5     |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.8     | 3.8     | 7.5     | 15.1    | 11.3    | 7.5     | 3.8     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45472.7 | 0°    | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 | 45472.7 |
| 45589.4 | 2.5°  | 45928.2 | 46097.5 | 46394.9 | 46477.7 | 46733.7 | 46440.1 | 46278.2 | 46293.3 | 45943.2 |
| 45476.5 | 5°    | 45928.2 | 46315.9 | 46835.3 | 47083.7 | 47271.9 | 47256.8 | 47215.4 | 47110.1 | 46854.1 |
| 45250.6 | 7.5°  | 45807.7 | 46440.1 | 47155.2 | 47486.5 | 47712.3 | 47693.5 | 47787.6 | 47618.2 | 47305.8 |
| 44847.9 | 10°   | 45420.0 | 45969.6 | 46850.3 | 47121.3 | 47486.5 | 47494.0 | 47377.3 | 47411.2 | 46854.1 |
| 43376.2 | 12.5° | 44200.5 | 44629.6 | 45401.2 | 45709.9 | 46154.0 | 46225.5 | 46097.5 | 46048.6 | 45521.7 |
| 40963.5 | 15°   | 41840.5 | 42088.9 | 42864.3 | 43172.9 | 43613.3 | 43553.1 | 43681.1 | 43628.4 | 43165.4 |
| 37703.9 | 17.5° | 38388.9 | 38467.9 | 39281.0 | 39540.7 | 39954.7 | 40116.6 | 39924.6 | 40169.3 | 39770.3 |
| 33205.9 | 20°   | 33439.3 | 33864.6 | 34779.2 | 35178.2 | 35419.1 | 35708.9 | 35456.8 | 35731.5 | 35264.8 |
| 27748.1 | 22.5° | 28418.1 | 28670.3 | 29498.4 | 30074.3 | 30522.2 | 30578.6 | 30484.5 | 30676.5 | 30047.9 |
| 22937.7 | 25°   | 22934.0 | 23351.8 | 24006.7 | 24759.5 | 25199.9 | 25470.9 | 25226.2 | 25350.4 | 25248.8 |
| 17788.6 | 27.5° | 18089.7 | 18462.4 | 18955.4 | 19516.3 | 20178.7 | 20532.5 | 20336.8 | 20547.6 | 20050.8 |
| 13264.3 | 30°   | 13275.6 | 13463.8 | 14020.8 | 14615.6 | 15342.0 | 15771.1 | 15789.9 | 16004.5 | 15710.9 |
| 9293.3  | 32.5° | 9361.0  | 9526.6  | 9869.2  | 10264.4 | 10957.0 | 11435.0 | 11359.7 | 11389.8 | 11209.2 |
| 6056.3  | 35°   | 6086.4  | 6308.4  | 6553.1  | 6741.3  | 7159.1  | 7686.1  | 7644.7  | 7607.0  | 7482.8  |
| 3982.3  | 37.5° | 4068.9  | 4155.4  | 4290.9  | 4460.3  | 4731.3  | 5062.6  | 5171.7  | 5036.2  | 4983.5  |
| 2687.5  | 40°   | 2751.5  | 2902.0  | 2992.4  | 3120.3  | 3248.3  | 3526.9  | 3602.1  | 3575.8  | 3523.1  |
| 1882.0  | 42.5° | 1953.5  | 2070.2  | 2183.1  | 2307.3  | 2375.1  | 2548.2  | 2695.0  | 2653.6  | 2631.0  |
| 1430.3  | 45°   | 1483.0  | 1588.4  | 1720.1  | 1814.2  | 1882.0  | 1983.6  | 2122.9  | 2137.9  | 2104.1  |
| 1148.0  | 47.5° | 1189.4  | 1283.5  | 1388.9  | 1505.6  | 1584.6  | 1648.6  | 1769.1  | 1814.2  | 1791.7  |
| 967.3   | 50°   | 1008.7  | 1080.3  | 1181.9  | 1298.6  | 1385.1  | 1441.6  | 1547.0  | 1595.9  | 1580.9  |
| 809.3   | 52.5° | 858.2   | 944.8   | 1038.9  | 1136.7  | 1242.1  | 1298.6  | 1396.4  | 1468.0  | 1456.7  |
| 670.0   | 55°   | 711.4   | 824.3   | 922.2   | 1020.0  | 1140.5  | 1196.9  | 1283.5  | 1377.6  | 1358.8  |
| 568.4   | 57.5° | 621.1   | 715.2   | 816.8   | 910.9   | 1038.9  | 1114.1  | 1193.2  | 1291.0  | 1287.3  |
| 466.7   | 60°   | 519.4   | 613.5   | 726.4   | 805.5   | 941.0   | 1046.4  | 1117.9  | 1219.5  | 1227.1  |
| 353.8   | 62.5° | 414.0   | 530.7   | 617.3   | 726.4   | 850.7   | 974.9   | 1042.6  | 1144.3  | 1181.9  |
| 271.0   | 65°   | 308.6   | 436.6   | 534.5   | 643.6   | 760.3   | 899.6   | 959.8   | 1061.4  | 1099.1  |
| 195.7   | 67.5° | 229.6   | 327.5   | 451.7   | 545.8   | 677.5   | 798.0   | 869.5   | 963.6   | 989.9   |
| 116.7   | 70°   | 173.1   | 252.2   | 376.4   | 459.2   | 594.7   | 692.6   | 764.1   | 835.6   | 869.5   |
| 79.0    | 72.5° | 101.6   | 188.2   | 297.4   | 395.2   | 511.9   | 594.7   | 647.4   | 703.9   | 726.4   |
| 37.6    | 75°   | 71.5    | 143.0   | 233.4   | 327.5   | 414.0   | 481.8   | 530.7   | 579.7   | 602.2   |
| 18.8    | 77.5° | 37.6    | 105.4   | 184.4   | 263.5   | 323.7   | 380.2   | 429.1   | 466.7   | 481.8   |
| 15.1    | 80°   | 22.6    | 75.3    | 150.6   | 207.0   | 248.4   | 297.4   | 346.3   | 372.6   | 368.9   |
| 11.3    | 82.5° | 15.1    | 60.2    | 109.2   | 150.6   | 180.7   | 218.3   | 252.2   | 271.0   | 271.0   |
| 7.5     | 85°   | 11.3    | 41.4    | 75.3    | 116.7   | 120.4   | 150.6   | 158.1   | 176.9   | 180.7   |
| 7.5     | 87.5° | 7.5     | 26.3    | 41.4    | 67.8    | 64.0    | 79.0    | 82.8    | 94.1    | 101.6   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 45472.7 |
| 45660.9 |
| 46936.9 |
| 47377.3 |
| 46692.3 |
| 45401.2 |
| 43312.2 |
| 39672.4 |
| 35227.1 |
| 29961.3 |
| 25184.8 |
| 20178.7 |
| 15763.6 |
| 11310.8 |
| 7373.6  |
| 4972.2  |
| 3530.6  |
| 2612.2  |
| 2100.3  |
| 1780.4  |
| 1577.1  |
| 1449.1  |
| 1358.8  |
| 1283.5  |
| 1227.1  |
| 1178.1  |
| 1095.3  |
| 989.9   |
| 862.0   |
| 718.9   |
| 594.7   |
| 478.0   |
| 365.1   |
| 267.2   |
| 176.9   |
| 97.9    |
| 0.0     |

(END OF REPORT)