

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: P483533

Luminaire Tested: **IFLD-S-SA2A-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483533  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

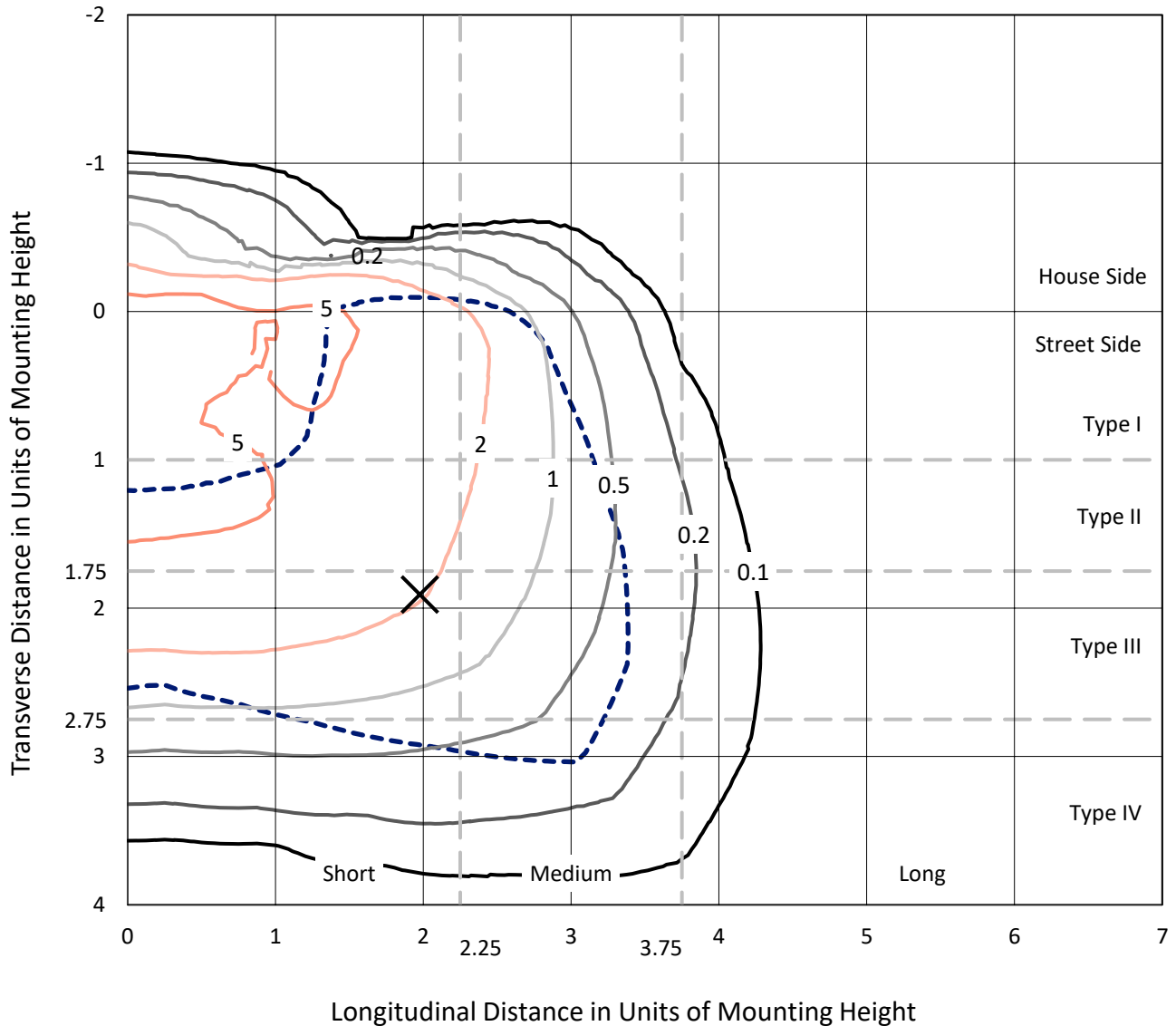
Lumens per Lamp: N/A  
Luminaire Lumens: 6202.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

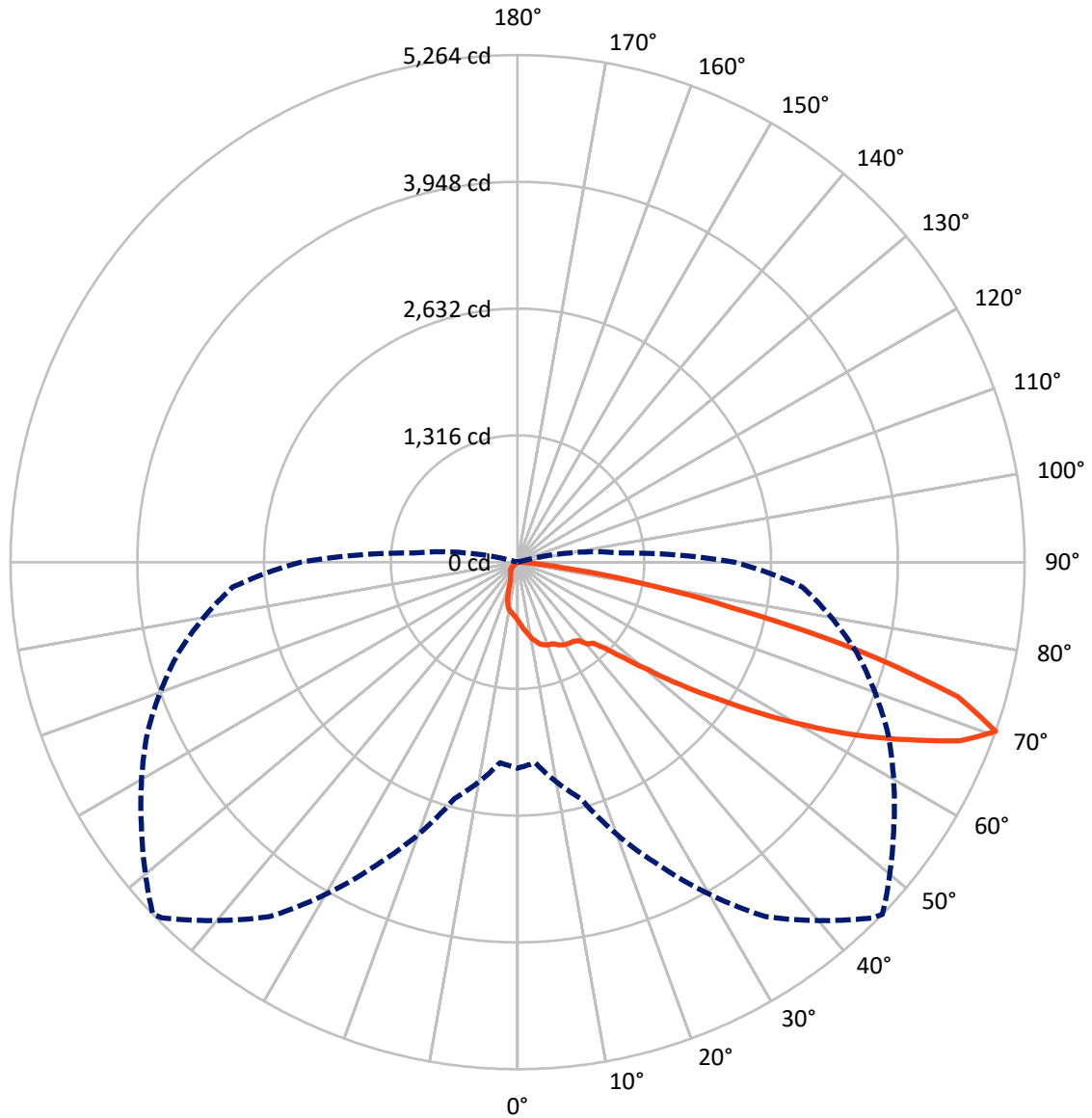
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 617.2    | 0.0    | 617.2  |
|                    | % Fixture | 10.0     | 0.0    | 10.0   |
| <b>Street Side</b> | Lumens    | 5585.7   | 0.0    | 5585.7 |
|                    | % Fixture | 90.0     | 0.0    | 90.0   |
| <b>Total</b>       | Lumens    | 6202.9   | 0.0    | 6202.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.7   | 1.0       |
| 10°-20°   | 183.4  | 3.0       |
| 20°-30°   | 293.7  | 4.7       |
| 30°-40°   | 419.2  | 6.8       |
| 40°-50°   | 723.9  | 11.7      |
| 50°-60°   | 1385.9 | 22.3      |
| 60°-70°   | 2052.4 | 33.1      |
| 70°-80°   | 1016.5 | 16.4      |
| 80°-90°   | 67.2   | 1.1       |
| 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°    | 6202.9 | 100.0     |
| 0°-180°   | 6202.9 | 100.0     |

**Coefficient of Utilization**



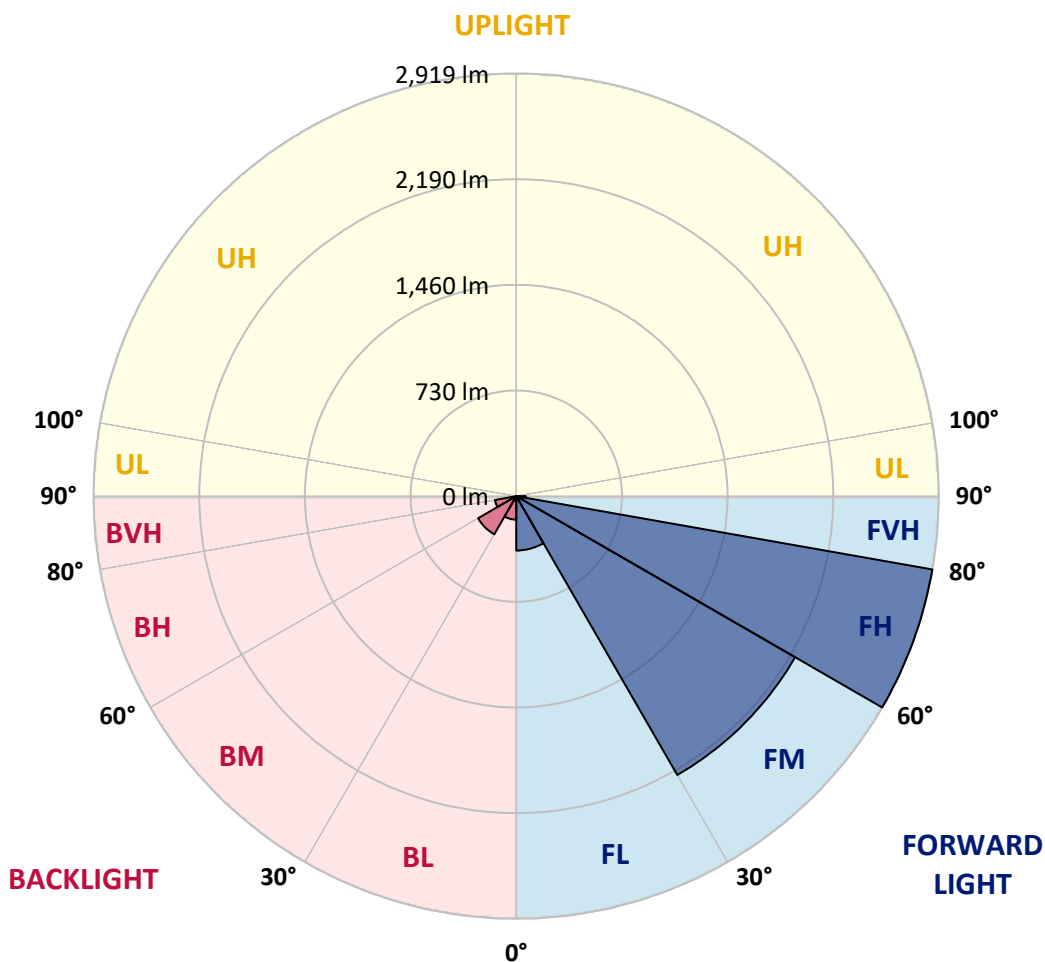
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 375.6  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2224.3 | 35.9      |                         |      |         |
| FH (60°-80°)   | 2919.4 | 47.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 66.3   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 162.2  | 2.6       | B1/500                  |      |         |
| BM (30°-60°)   | 304.7  | 4.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 149.5  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  | 608.9  |
| 2.5°  | 679.5  | 675.0  | 667.9  | 665.2  | 658.0  | 654.5  | 649.1  | 646.4  | 636.6  | 626.8  | 620.5  |
| 5°    | 762.5  | 751.8  | 755.4  | 744.6  | 721.4  | 702.7  | 701.8  | 681.3  | 658.9  | 641.1  | 617.0  |
| 7.5°  | 846.4  | 837.5  | 824.1  | 808.9  | 783.0  | 755.4  | 747.3  | 727.7  | 696.4  | 665.2  | 633.0  |
| 10°   | 909.8  | 903.6  | 892.0  | 870.5  | 834.8  | 803.6  | 804.5  | 771.4  | 738.4  | 702.7  | 658.9  |
| 12.5° | 949.1  | 951.8  | 934.8  | 913.4  | 882.1  | 842.9  | 842.0  | 819.6  | 782.1  | 744.6  | 692.9  |
| 15°   | 988.4  | 998.2  | 972.3  | 947.3  | 907.1  | 878.6  | 883.9  | 857.1  | 820.5  | 777.7  | 720.5  |
| 17.5° | 994.6  | 997.3  | 992.0  | 955.4  | 925.9  | 901.8  | 902.7  | 884.8  | 857.1  | 810.7  | 761.6  |
| 20°   | 983.9  | 982.1  | 975.9  | 949.1  | 929.5  | 915.2  | 916.1  | 911.6  | 896.4  | 858.9  | 792.0  |
| 22.5° | 952.7  | 952.7  | 944.6  | 926.8  | 917.9  | 931.3  | 920.5  | 937.5  | 921.4  | 899.1  | 843.8  |
| 25°   | 927.7  | 937.5  | 933.0  | 921.4  | 925.0  | 942.9  | 948.2  | 964.3  | 961.6  | 933.9  | 879.5  |
| 27.5° | 954.5  | 942.9  | 945.5  | 932.1  | 945.5  | 972.3  | 975.0  | 986.6  | 985.7  | 963.4  | 911.6  |
| 30°   | 972.3  | 983.0  | 962.5  | 933.0  | 947.3  | 992.9  | 991.1  | 1006.3 | 1013.4 | 986.6  | 942.0  |
| 32.5° | 1029.5 | 1020.5 | 1003.6 | 964.3  | 966.1  | 992.0  | 1000.0 | 1019.6 | 1024.1 | 1008.0 | 971.4  |
| 35°   | 1146.4 | 1133.0 | 1058.9 | 1000.0 | 991.1  | 1003.6 | 1008.9 | 1047.3 | 1055.4 | 1037.5 | 1002.7 |
| 37.5° | 1326.8 | 1296.4 | 1207.1 | 1076.8 | 1036.6 | 1033.9 | 1033.9 | 1084.8 | 1115.2 | 1074.1 | 1049.1 |
| 40°   | 1584.8 | 1542.0 | 1445.5 | 1218.8 | 1096.4 | 1107.1 | 1117.9 | 1145.5 | 1142.0 | 1115.2 | 1109.8 |
| 42.5° | 1913.4 | 1880.4 | 1775.9 | 1457.1 | 1210.7 | 1157.1 | 1148.2 | 1185.7 | 1242.0 | 1231.3 | 1227.7 |
| 45°   | 2187.5 | 2189.3 | 2122.3 | 1783.9 | 1408.0 | 1272.3 | 1278.6 | 1307.1 | 1401.8 | 1393.8 | 1392.9 |
| 47.5° | 2387.5 | 2362.5 | 2352.7 | 2099.1 | 1695.5 | 1491.1 | 1482.1 | 1501.8 | 1625.0 | 1675.9 | 1699.1 |
| 50°   | 2569.6 | 2552.7 | 2529.5 | 2405.4 | 2041.1 | 1765.2 | 1756.3 | 1758.0 | 1946.4 | 2017.9 | 2075.0 |
| 52.5° | 2795.5 | 2817.0 | 2740.2 | 2664.3 | 2488.4 | 2121.4 | 2111.6 | 2076.8 | 2310.7 | 2408.9 | 2476.8 |
| 55°   | 3074.1 | 3033.9 | 2947.3 | 2986.6 | 2916.1 | 2506.3 | 2488.4 | 2447.3 | 2725.9 | 2767.0 | 2838.4 |
| 57.5° | 3135.7 | 3105.4 | 3194.6 | 3333.9 | 3401.8 | 2958.0 | 2950.9 | 2876.8 | 3075.0 | 3037.5 | 3239.3 |
| 60°   | 3289.3 | 3297.3 | 3421.4 | 3698.2 | 3816.1 | 3479.5 | 3444.6 | 3314.3 | 3413.4 | 3420.5 | 3635.7 |
| 62.5° | 3447.3 | 3428.6 | 3706.3 | 3972.3 | 4153.6 | 3973.2 | 3961.6 | 3702.7 | 3815.2 | 3724.1 | 4008.9 |
| 65°   | 3331.3 | 3359.8 | 3757.1 | 4202.7 | 4591.1 | 4456.3 | 4446.4 | 4076.8 | 4138.4 | 4025.0 | 4160.7 |
| 67.5° | 2918.8 | 2860.7 | 3417.0 | 4097.3 | 4816.1 | 4962.5 | 4951.8 | 4484.8 | 4320.5 | 4023.2 | 3845.5 |
| 70°   | 2139.3 | 2089.3 | 2542.9 | 3469.6 | 4493.8 | 5221.4 | 5264.3 | 4768.8 | 4246.4 | 3648.2 | 2967.0 |
| 72.5° | 1048.2 | 1049.1 | 1425.0 | 2352.7 | 3555.4 | 4758.9 | 4780.4 | 4372.3 | 3648.2 | 2689.3 | 1680.4 |
| 75°   | 309.8  | 313.4  | 527.7  | 1153.6 | 2298.2 | 3614.3 | 3638.4 | 3318.8 | 2528.6 | 1389.3 | 573.2  |
| 77.5° | 113.4  | 113.4  | 175.0  | 433.0  | 1146.4 | 2281.3 | 2279.5 | 2037.5 | 1280.4 | 470.5  | 133.9  |
| 80°   | 58.9   | 61.6   | 91.1   | 176.8  | 496.4  | 1188.4 | 1233.0 | 997.3  | 486.6  | 198.2  | 39.3   |
| 82.5° | 24.1   | 26.8   | 50.0   | 91.1   | 238.4  | 417.0  | 456.3  | 391.1  | 211.6  | 138.4  | 17.9   |
| 85°   | 7.1    | 8.0    | 24.1   | 50.9   | 93.8   | 104.5  | 116.1  | 131.3  | 133.0  | 107.1  | 8.0    |
| 87.5° | 0.9    | 0.9    | 9.8    | 17.0   | 20.5   | 22.3   | 25.9   | 25.9   | 67.9   | 75.0   | 4.5    |
| 90°   | 0.0    | 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°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 608.9  | 608.9  | 608.9 | 608.9 | 608.9 | 608.9 | 608.9 | 608.9 | 608.9 | 608.9 | 608.9 |
| 2.5°  | 613.4  | 608.9  | 601.8 | 585.7 | 582.1 | 570.5 | 569.6 | 558.9 | 562.5 | 555.4 | 552.7 |
| 5°    | 608.9  | 599.1  | 579.5 | 567.0 | 554.5 | 546.4 | 541.1 | 536.6 | 535.7 | 532.1 | 530.4 |
| 7.5°  | 617.0  | 603.6  | 573.2 | 553.6 | 532.1 | 525.0 | 513.4 | 512.5 | 506.3 | 500.0 | 500.0 |
| 10°   | 643.8  | 619.6  | 586.6 | 553.6 | 525.9 | 502.7 | 475.9 | 456.3 | 449.1 | 433.0 | 434.8 |
| 12.5° | 665.2  | 643.8  | 595.5 | 561.6 | 519.6 | 467.0 | 408.0 | 362.5 | 341.1 | 320.5 | 328.6 |
| 15°   | 695.5  | 664.3  | 612.5 | 563.4 | 495.5 | 404.5 | 308.0 | 257.1 | 237.5 | 233.0 | 232.1 |
| 17.5° | 728.6  | 695.5  | 633.9 | 558.9 | 446.4 | 312.5 | 226.8 | 197.3 | 200.9 | 206.3 | 205.4 |
| 20°   | 765.2  | 725.0  | 650.0 | 543.8 | 368.8 | 226.8 | 185.7 | 184.8 | 190.2 | 198.2 | 200.0 |
| 22.5° | 803.6  | 768.8  | 669.6 | 498.2 | 275.0 | 182.1 | 178.6 | 178.6 | 182.1 | 192.0 | 190.2 |
| 25°   | 846.4  | 800.0  | 679.5 | 427.7 | 197.3 | 167.9 | 169.6 | 173.2 | 175.0 | 183.0 | 183.9 |
| 27.5° | 879.5  | 834.8  | 682.1 | 342.9 | 160.7 | 155.4 | 159.8 | 164.3 | 167.0 | 173.2 | 175.9 |
| 30°   | 909.8  | 878.6  | 667.9 | 255.4 | 147.3 | 144.6 | 146.4 | 152.7 | 158.0 | 163.4 | 163.4 |
| 32.5° | 948.2  | 903.6  | 634.8 | 181.3 | 139.3 | 134.8 | 133.9 | 136.6 | 142.9 | 149.1 | 149.1 |
| 35°   | 987.5  | 945.5  | 582.1 | 145.5 | 132.1 | 125.9 | 122.3 | 119.6 | 122.3 | 126.8 | 130.4 |
| 37.5° | 1044.6 | 1008.9 | 516.1 | 133.9 | 126.8 | 117.9 | 110.7 | 104.5 | 100.0 | 99.1  | 101.8 |
| 40°   | 1125.9 | 1080.4 | 431.3 | 125.9 | 120.5 | 109.8 | 99.1  | 88.4  | 78.6  | 72.3  | 73.2  |
| 42.5° | 1249.1 | 1185.7 | 339.3 | 121.4 | 116.1 | 100.9 | 85.7  | 70.5  | 58.0  | 51.8  | 51.8  |
| 45°   | 1425.0 | 1325.0 | 249.1 | 117.0 | 110.7 | 90.2  | 70.5  | 52.7  | 40.2  | 36.6  | 37.5  |
| 47.5° | 1690.2 | 1492.9 | 178.6 | 109.8 | 103.6 | 78.6  | 55.4  | 37.5  | 29.5  | 27.7  | 28.6  |
| 50°   | 2036.6 | 1692.0 | 139.3 | 101.8 | 94.6  | 66.1  | 41.1  | 27.7  | 23.2  | 22.3  | 23.2  |
| 52.5° | 2400.0 | 1892.9 | 122.3 | 94.6  | 81.3  | 52.7  | 30.4  | 22.3  | 19.6  | 18.8  | 19.6  |
| 55°   | 2710.7 | 2022.3 | 106.3 | 83.9  | 65.2  | 39.3  | 24.1  | 19.6  | 17.0  | 14.3  | 14.3  |
| 57.5° | 3025.0 | 2087.5 | 83.9  | 69.6  | 48.2  | 29.5  | 20.5  | 17.0  | 14.3  | 11.6  | 10.7  |
| 60°   | 3280.4 | 2133.9 | 59.8  | 51.8  | 33.9  | 23.2  | 17.9  | 15.2  | 11.6  | 8.9   | 8.0   |
| 62.5° | 3448.2 | 2000.9 | 43.8  | 39.3  | 25.0  | 19.6  | 15.2  | 12.5  | 8.9   | 6.3   | 6.3   |
| 65°   | 3365.2 | 1817.0 | 33.9  | 27.7  | 18.8  | 15.2  | 12.5  | 8.9   | 6.3   | 3.6   | 2.7   |
| 67.5° | 3019.6 | 1480.4 | 27.7  | 20.5  | 14.3  | 11.6  | 9.8   | 7.1   | 3.6   | 0.9   | 0.9   |
| 70°   | 2252.7 | 1084.8 | 22.3  | 15.2  | 11.6  | 8.9   | 7.1   | 4.5   | 1.8   | 0.9   | 0.0   |
| 72.5° | 1232.1 | 593.8  | 17.9  | 12.5  | 8.9   | 7.1   | 5.4   | 3.6   | 1.8   | 0.0   | 0.0   |
| 75°   | 407.1  | 158.0  | 13.4  | 8.9   | 5.4   | 4.5   | 3.6   | 2.7   | 0.9   | 0.0   | 0.0   |
| 77.5° | 98.2   | 41.1   | 10.7  | 8.0   | 4.5   | 2.7   | 1.8   | 0.9   | 0.9   | 0.0   | 0.0   |
| 80°   | 30.4   | 17.0   | 8.0   | 5.4   | 3.6   | 2.7   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 12.5   | 8.0    | 3.6   | 3.6   | 2.7   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.3    | 4.5    | 2.7   | 1.8   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.5    | 1.8    | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)