

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: P1210070

Luminaire Tested: **ARCH2-100-722-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-100-722-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7954 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 103.3  
Input Voltage (V): NR  
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



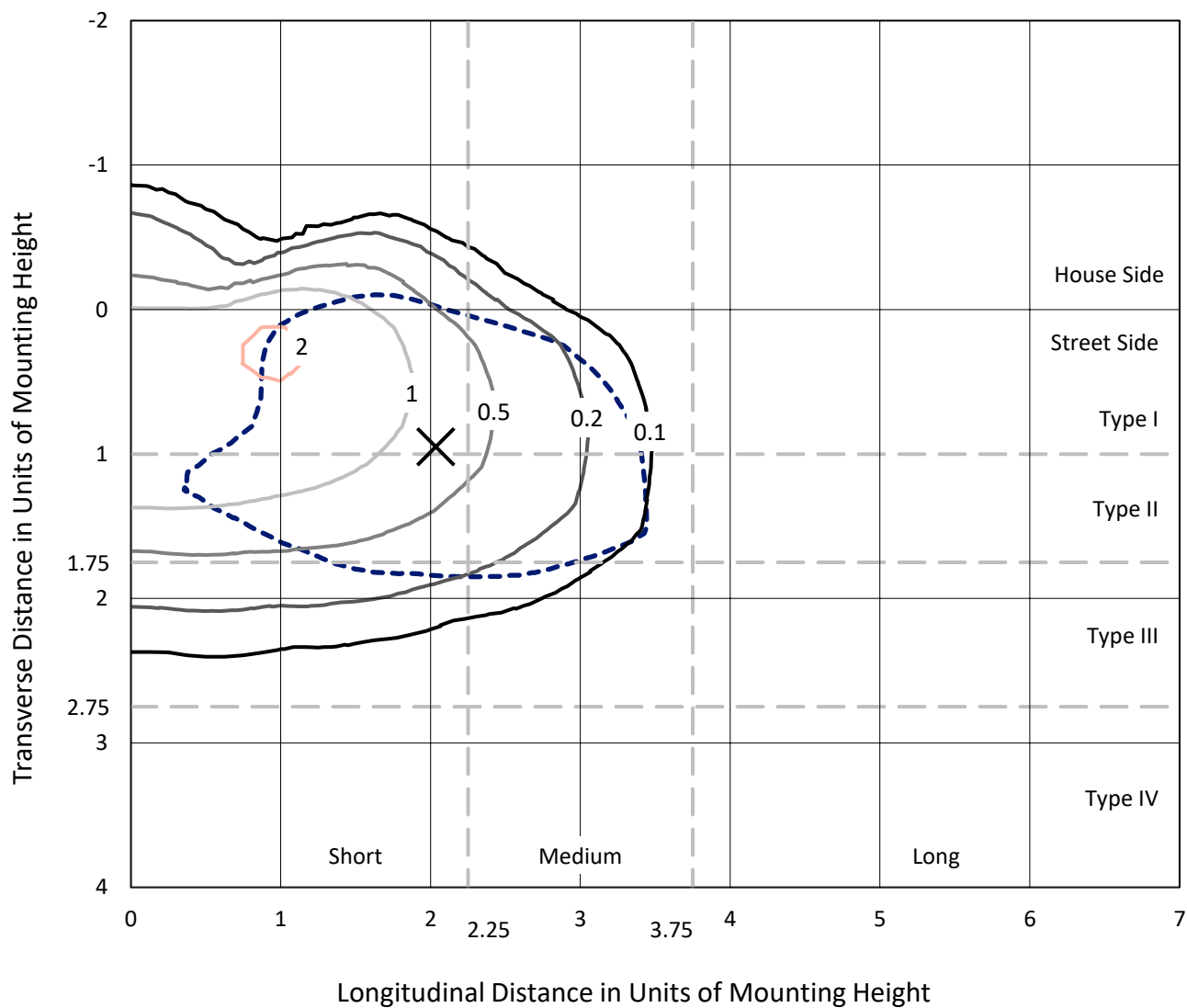
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## Iso-Footcandle Lines of Horizontal Illumination

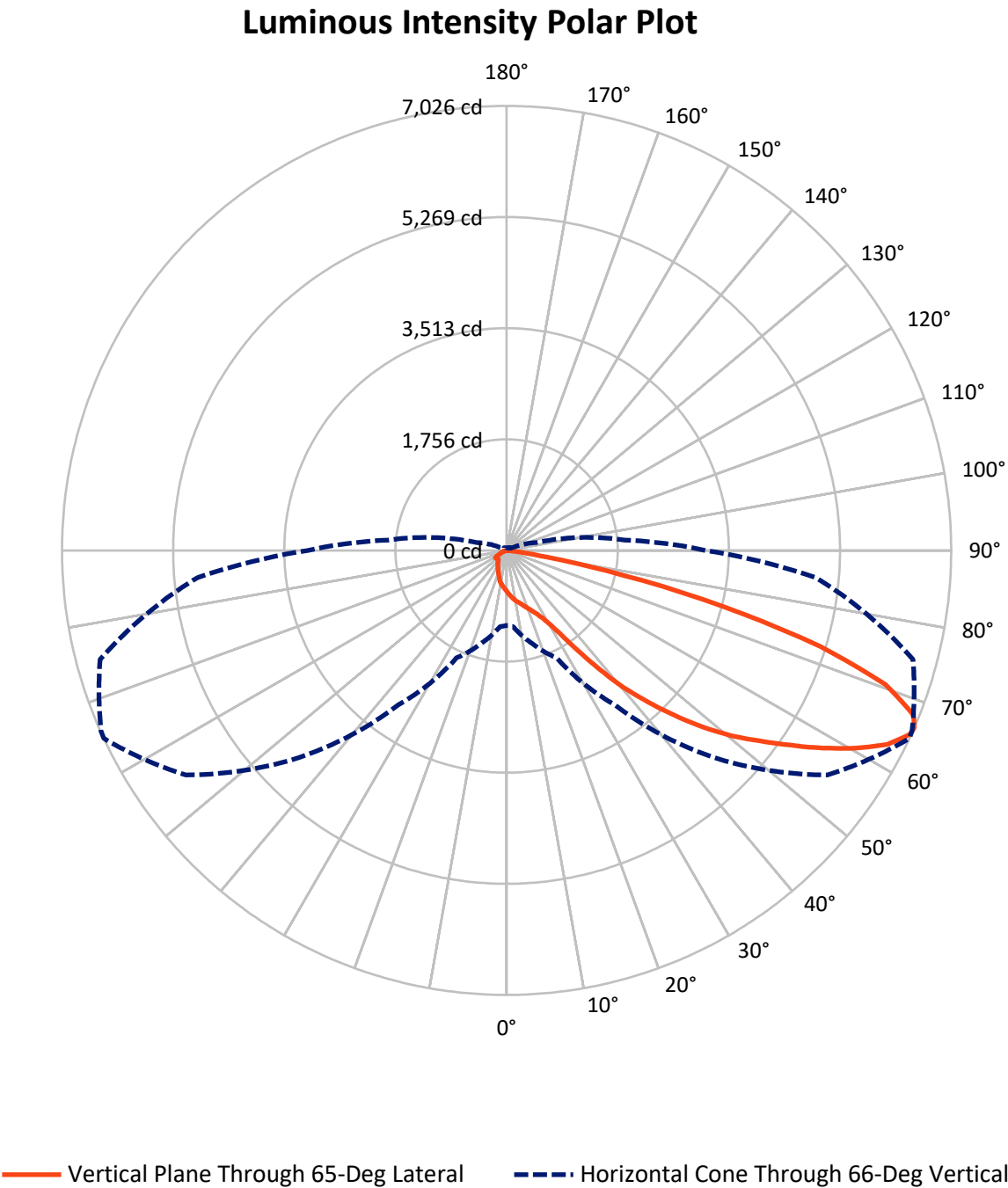
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 938.7    | 0.0    | 938.7  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 7015.3   | 0.0    | 7015.3 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 7954.0   | 0.0    | 7954.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.4   | 0.8       |
| 10°-20°   | 181.9  | 2.3       |
| 20°-30°   | 332.9  | 4.2       |
| 30°-40°   | 676.4  | 8.5       |
| 40°-50°   | 1428.3 | 18.0      |
| 50°-60°   | 2195.8 | 27.6      |
| 60°-70°   | 2210.2 | 27.8      |
| 70°-80°   | 825.9  | 10.4      |
| 80°-90°   | 41.3   | 0.5       |
| 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°    | 7954.0 | 100.0     |
| 0°-180°   | 7954.0 | 100.0     |

**Coefficient of Utilization**



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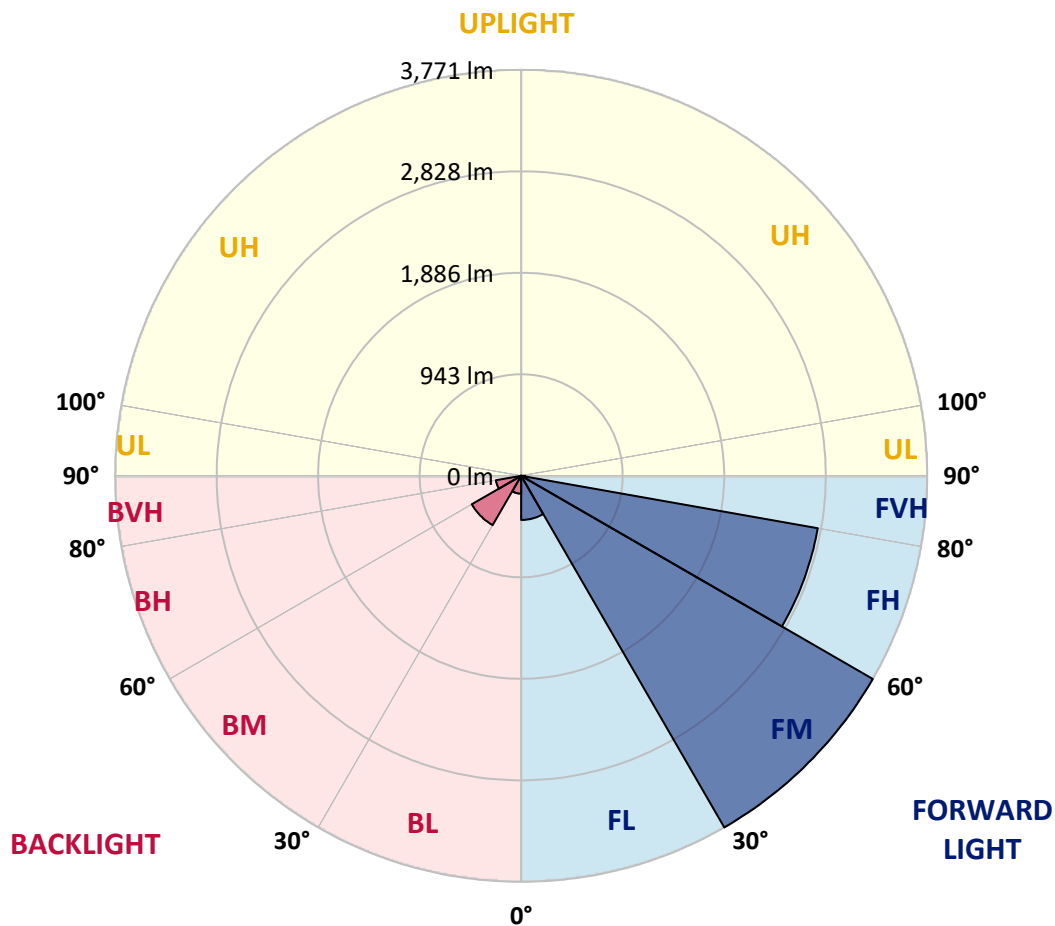
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 410.0  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 3771.2 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 2797.6 | 35.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 36.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 166.2  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 529.3  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 238.5  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.8    | 0.1       |                         |      | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  | 648.0  |
| 2.5°  | 739.0  | 740.4  | 737.5  | 731.7  | 726.0  | 718.7  | 707.2  | 688.4  | 685.6  | 672.6  | 658.1  |
| 5°    | 789.5  | 792.4  | 788.0  | 786.6  | 783.7  | 773.6  | 757.7  | 730.3  | 727.4  | 701.4  | 668.2  |
| 7.5°  | 806.8  | 811.1  | 808.2  | 808.2  | 808.2  | 803.9  | 796.7  | 772.1  | 767.8  | 734.6  | 684.1  |
| 10°   | 819.8  | 822.7  | 821.2  | 827.0  | 831.3  | 828.4  | 824.1  | 809.7  | 805.3  | 772.1  | 705.8  |
| 12.5° | 840.0  | 841.4  | 842.9  | 845.8  | 853.0  | 855.9  | 854.4  | 841.4  | 838.5  | 815.4  | 733.2  |
| 15°   | 858.7  | 858.7  | 860.2  | 873.2  | 883.3  | 889.1  | 890.5  | 880.4  | 877.5  | 858.7  | 767.8  |
| 17.5° | 876.1  | 877.5  | 881.8  | 896.3  | 913.6  | 925.1  | 932.4  | 928.0  | 923.7  | 909.3  | 808.2  |
| 20°   | 902.0  | 904.9  | 909.3  | 929.5  | 946.8  | 965.5  | 980.0  | 978.5  | 977.1  | 967.0  | 855.9  |
| 22.5° | 946.8  | 949.7  | 956.9  | 975.6  | 993.0  | 1016.1 | 1040.6 | 1039.2 | 1034.8 | 1027.6 | 912.1  |
| 25°   | 1014.6 | 1014.6 | 1018.9 | 1034.8 | 1056.5 | 1083.9 | 1107.0 | 1111.3 | 1107.0 | 1102.7 | 982.9  |
| 27.5° | 1099.8 | 1101.2 | 1101.2 | 1118.5 | 1138.7 | 1173.4 | 1202.2 | 1206.6 | 1206.6 | 1202.2 | 1078.1 |
| 30°   | 1218.1 | 1213.8 | 1210.9 | 1225.3 | 1247.0 | 1297.5 | 1348.0 | 1356.7 | 1352.3 | 1359.6 | 1212.3 |
| 32.5° | 1421.6 | 1414.4 | 1389.9 | 1392.8 | 1405.7 | 1475.0 | 1560.2 | 1590.5 | 1589.0 | 1602.0 | 1428.8 |
| 35°   | 1703.1 | 1688.6 | 1652.5 | 1622.2 | 1620.8 | 1695.8 | 1825.7 | 1939.8 | 1938.3 | 1983.0 | 1757.9 |
| 37.5° | 2020.6 | 2039.3 | 1971.5 | 1919.5 | 1903.7 | 1962.8 | 2130.3 | 2377.1 | 2390.1 | 2468.0 | 2189.4 |
| 40°   | 2444.9 | 2456.4 | 2369.8 | 2296.2 | 2221.2 | 2242.8 | 2463.7 | 2847.6 | 2870.7 | 2957.3 | 2621.0 |
| 42.5° | 2814.4 | 2825.9 | 2775.4 | 2685.9 | 2590.7 | 2550.3 | 2799.9 | 3274.8 | 3293.5 | 3413.3 | 3065.5 |
| 45°   | 3065.5 | 3074.2 | 3091.5 | 3100.1 | 2991.9 | 2908.2 | 3211.3 | 3713.5 | 3736.6 | 3875.2 | 3499.9 |
| 47.5° | 3261.8 | 3269.0 | 3303.6 | 3390.2 | 3368.6 | 3302.2 | 3629.8 | 4169.6 | 4175.4 | 4329.8 | 3922.8 |
| 50°   | 3352.7 | 3370.0 | 3455.2 | 3588.0 | 3683.2 | 3702.0 | 4084.4 | 4601.1 | 4617.0 | 4764.2 | 4322.6 |
| 52.5° | 3251.7 | 3257.5 | 3472.5 | 3722.2 | 3914.1 | 4104.7 | 4540.5 | 5000.9 | 5047.1 | 5156.8 | 4682.0 |
| 55°   | 2911.1 | 2952.9 | 3279.1 | 3717.9 | 4096.0 | 4487.1 | 5028.3 | 5432.5 | 5474.3 | 5543.6 | 4998.0 |
| 57.5° | 2515.6 | 2561.8 | 2958.7 | 3531.7 | 4173.9 | 4840.7 | 5480.1 | 5891.4 | 5920.3 | 5939.0 | 5288.1 |
| 60°   | 2173.6 | 2216.9 | 2625.3 | 3175.2 | 4096.0 | 5090.4 | 5900.1 | 6347.5 | 6372.0 | 6321.5 | 5433.9 |
| 62.5° | 1753.6 | 1796.9 | 2208.2 | 2703.2 | 3790.0 | 5140.9 | 6211.8 | 6753.0 | 6763.2 | 6626.0 | 5344.4 |
| 65°   | 1322.0 | 1350.9 | 1694.4 | 2118.7 | 3254.6 | 4872.5 | 6282.5 | 7005.6 | 6995.5 | 6714.1 | 5076.0 |
| 66°   | 1184.9 | 1209.5 | 1512.5 | 1873.4 | 2976.0 | 4627.1 | 6187.3 | 7025.8 | 7015.7 | 6649.1 | 4899.9 |
| 67.5° | 1021.8 | 1029.0 | 1278.7 | 1532.8 | 2489.6 | 4106.1 | 5897.2 | 6933.5 | 6942.1 | 6470.2 | 4578.0 |
| 70°   | 798.1  | 796.7  | 941.0  | 1066.6 | 1700.2 | 2921.2 | 4918.7 | 6351.8 | 6393.7 | 5794.7 | 3904.0 |
| 72.5° | 510.9  | 493.6  | 577.3  | 652.4  | 990.1  | 1695.8 | 3586.5 | 5177.0 | 5247.7 | 4552.1 | 2908.2 |
| 75°   | 304.5  | 287.2  | 307.4  | 326.2  | 474.8  | 815.4  | 2108.6 | 3523.0 | 3590.9 | 2918.3 | 1730.5 |
| 77.5° | 228.0  | 220.8  | 222.3  | 206.4  | 210.7  | 306.0  | 962.7  | 1861.8 | 1910.9 | 1195.0 | 656.7  |
| 80°   | 174.6  | 155.9  | 145.8  | 153.0  | 138.6  | 121.2  | 357.9  | 640.8  | 671.1  | 282.9  | 137.1  |
| 82.5° | 116.9  | 101.0  | 93.8   | 102.5  | 88.0   | 67.8   | 86.6   | 124.1  | 121.2  | 76.5   | 53.4   |
| 85°   | 60.6   | 52.0   | 52.0   | 52.0   | 44.7   | 33.2   | 37.5   | 50.5   | 50.5   | 40.4   | 31.8   |
| 87.5° | 17.3   | 15.9   | 18.8   | 17.3   | 13.0   | 13.0   | 14.4   | 17.3   | 17.3   | 15.9   | 14.4   |
| 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°    | 648.0  | 648.0  | 648.0  | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 |
| 2.5°  | 646.6  | 640.8  | 624.9  | 613.4 | 601.8 | 591.7 | 580.2 | 577.3 | 571.5 | 573.0 | 570.1 |
| 5°    | 650.9  | 635.0  | 607.6  | 581.6 | 561.4 | 544.1 | 522.5 | 513.8 | 502.3 | 497.9 | 495.0 |
| 7.5°  | 656.7  | 633.6  | 593.2  | 557.1 | 522.5 | 487.8 | 453.2 | 433.0 | 420.0 | 414.2 | 409.9 |
| 10°   | 669.7  | 639.4  | 586.0  | 529.7 | 470.5 | 421.4 | 386.8 | 372.4 | 363.7 | 362.3 | 360.8 |
| 12.5° | 687.0  | 648.0  | 578.8  | 495.0 | 417.1 | 370.9 | 349.3 | 344.9 | 343.5 | 343.5 | 342.1 |
| 15°   | 713.0  | 662.5  | 567.2  | 454.6 | 375.2 | 343.5 | 333.4 | 326.2 | 323.3 | 323.3 | 323.3 |
| 17.5° | 739.0  | 679.8  | 549.9  | 412.8 | 346.4 | 326.2 | 316.1 | 311.7 | 308.9 | 310.3 | 308.9 |
| 20°   | 772.1  | 700.0  | 526.8  | 376.7 | 327.6 | 311.7 | 301.6 | 297.3 | 295.9 | 295.9 | 295.9 |
| 22.5° | 809.7  | 723.1  | 497.9  | 349.3 | 311.7 | 297.3 | 287.2 | 282.9 | 280.0 | 281.4 | 281.4 |
| 25°   | 860.2  | 751.9  | 467.6  | 321.8 | 295.9 | 282.9 | 271.3 | 265.6 | 265.6 | 267.0 | 268.4 |
| 27.5° | 925.1  | 786.6  | 437.3  | 304.5 | 281.4 | 268.4 | 255.5 | 249.7 | 251.1 | 254.0 | 254.0 |
| 30°   | 1020.4 | 834.2  | 407.0  | 285.8 | 265.6 | 251.1 | 239.6 | 233.8 | 236.7 | 242.5 | 242.5 |
| 32.5° | 1156.1 | 912.1  | 381.0  | 264.1 | 242.5 | 226.6 | 215.0 | 210.7 | 217.9 | 229.5 | 229.5 |
| 35°   | 1398.5 | 1055.0 | 365.1  | 242.5 | 217.9 | 199.2 | 184.7 | 180.4 | 190.5 | 204.9 | 204.9 |
| 37.5° | 1723.3 | 1284.5 | 370.9  | 223.7 | 197.7 | 176.1 | 160.2 | 154.4 | 161.6 | 174.6 | 179.0 |
| 40°   | 2085.5 | 1561.6 | 421.4  | 207.8 | 179.0 | 157.3 | 141.4 | 135.7 | 140.0 | 145.8 | 147.2 |
| 42.5° | 2447.8 | 1856.0 | 516.7  | 196.3 | 164.5 | 141.4 | 127.0 | 122.7 | 125.6 | 127.0 | 128.5 |
| 45°   | 2808.6 | 2147.6 | 636.5  | 189.1 | 151.5 | 128.5 | 114.0 | 114.0 | 115.5 | 115.5 | 115.5 |
| 47.5° | 3150.7 | 2431.9 | 762.0  | 187.6 | 140.0 | 115.5 | 103.9 | 105.4 | 105.4 | 106.8 | 106.8 |
| 50°   | 3473.9 | 2685.9 | 889.1  | 192.0 | 129.9 | 103.9 | 95.3  | 95.3  | 95.3  | 96.7  | 95.3  |
| 52.5° | 3743.8 | 2908.2 | 1021.8 | 199.2 | 119.8 | 95.3  | 86.6  | 86.6  | 86.6  | 88.0  | 86.6  |
| 55°   | 3999.3 | 3110.2 | 1157.5 | 209.3 | 111.1 | 88.0  | 79.4  | 76.5  | 76.5  | 77.9  | 76.5  |
| 57.5° | 4207.1 | 3244.5 | 1286.0 | 210.7 | 103.9 | 80.8  | 73.6  | 69.3  | 69.3  | 69.3  | 69.3  |
| 60°   | 4215.8 | 3166.5 | 1323.5 | 184.7 | 95.3  | 73.6  | 66.4  | 60.6  | 62.1  | 62.1  | 62.1  |
| 62.5° | 3940.1 | 2756.6 | 1063.7 | 138.6 | 85.2  | 66.4  | 60.6  | 54.8  | 54.8  | 54.8  | 54.8  |
| 65°   | 3398.9 | 2144.7 | 623.5  | 109.7 | 73.6  | 59.2  | 53.4  | 49.1  | 49.1  | 49.1  | 47.6  |
| 66°   | 3144.9 | 1880.6 | 477.7  | 99.6  | 69.3  | 57.7  | 52.0  | 47.6  | 46.2  | 44.7  | 44.7  |
| 67.5° | 2730.7 | 1486.6 | 298.8  | 88.0  | 63.5  | 53.4  | 47.6  | 43.3  | 41.9  | 40.4  | 40.4  |
| 70°   | 2056.7 | 943.9  | 145.8  | 67.8  | 54.8  | 46.2  | 41.9  | 37.5  | 36.1  | 34.6  | 33.2  |
| 72.5° | 1443.3 | 552.8  | 76.5   | 52.0  | 44.7  | 40.4  | 36.1  | 31.8  | 30.3  | 28.9  | 28.9  |
| 75°   | 815.4  | 267.0  | 50.5   | 37.5  | 36.1  | 33.2  | 30.3  | 26.0  | 24.5  | 24.5  | 24.5  |
| 77.5° | 308.9  | 92.4   | 34.6   | 27.4  | 28.9  | 26.0  | 21.6  | 21.6  | 20.2  | 21.6  | 20.2  |
| 80°   | 80.8   | 40.4   | 21.6   | 20.2  | 21.6  | 18.8  | 15.9  | 17.3  | 17.3  | 17.3  | 17.3  |
| 82.5° | 43.3   | 23.1   | 13.0   | 14.4  | 13.0  | 13.0  | 10.1  | 11.5  | 13.0  | 11.5  | 13.0  |
| 85°   | 30.3   | 11.5   | 7.2    | 7.2   | 5.8   | 5.8   | 4.3   | 5.8   | 7.2   | 5.8   | 5.8   |
| 87.5° | 15.9   | 4.3    | 4.3    | 4.3   | 4.3   | 2.9   | 1.4   | 0.0   | 1.4   | 1.4   | 1.4   |
| 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)