

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH4-110-AMB-U-5WQ-PFS**

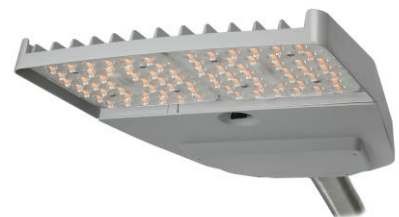
Issue Date: 12/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ARCH4-110-AMB-U-5WQ-PFS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V  
WIDE OPTICS WITH REAR PERIMETER FENCE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

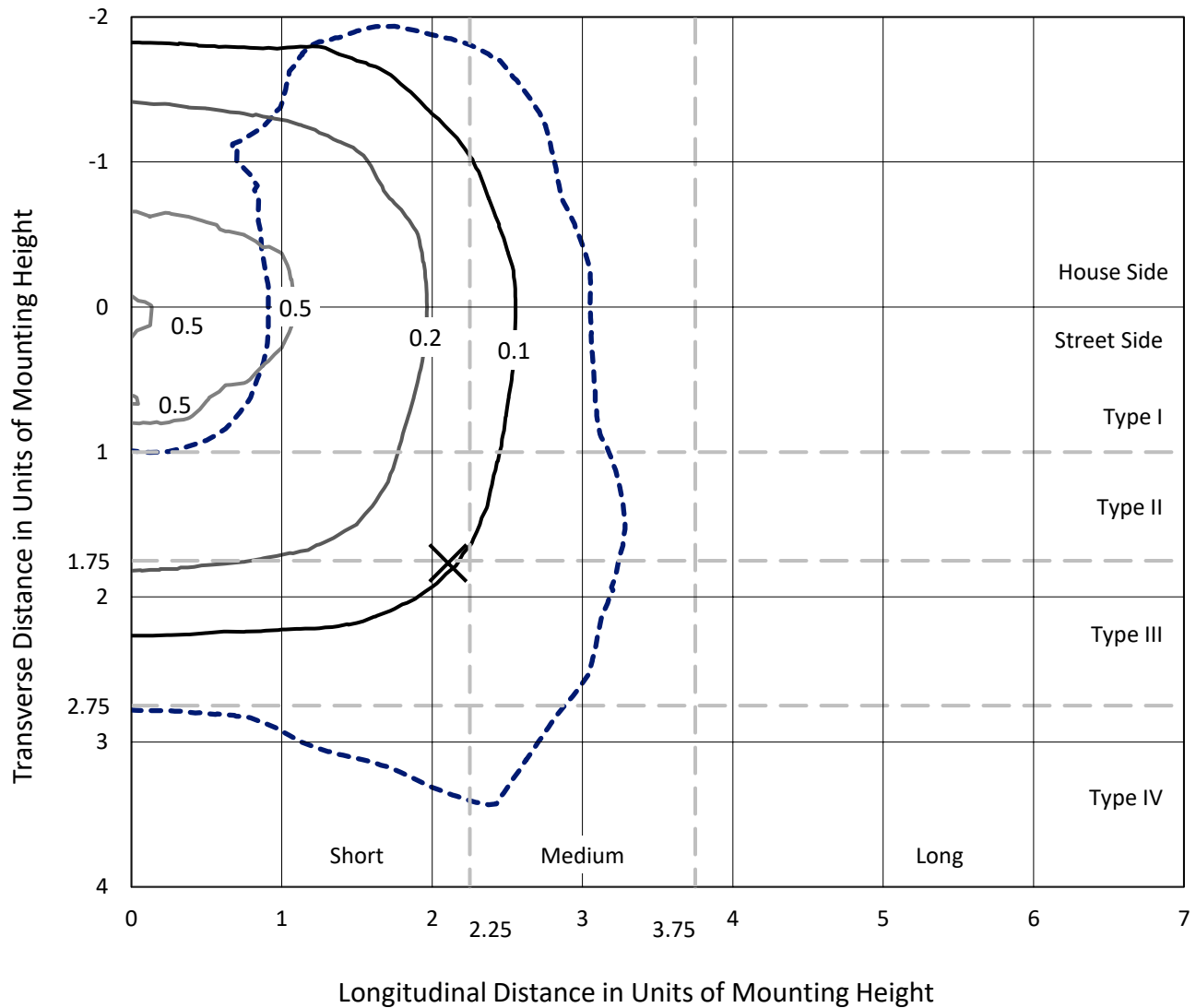
Lumens per Lamp: N/A  
Luminaire Lumens: 4022 lumens  
Efficiency: N/A  
Efficacy: 35.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 112.6  
Input Voltage (V): NR  
Input Current (Ain): 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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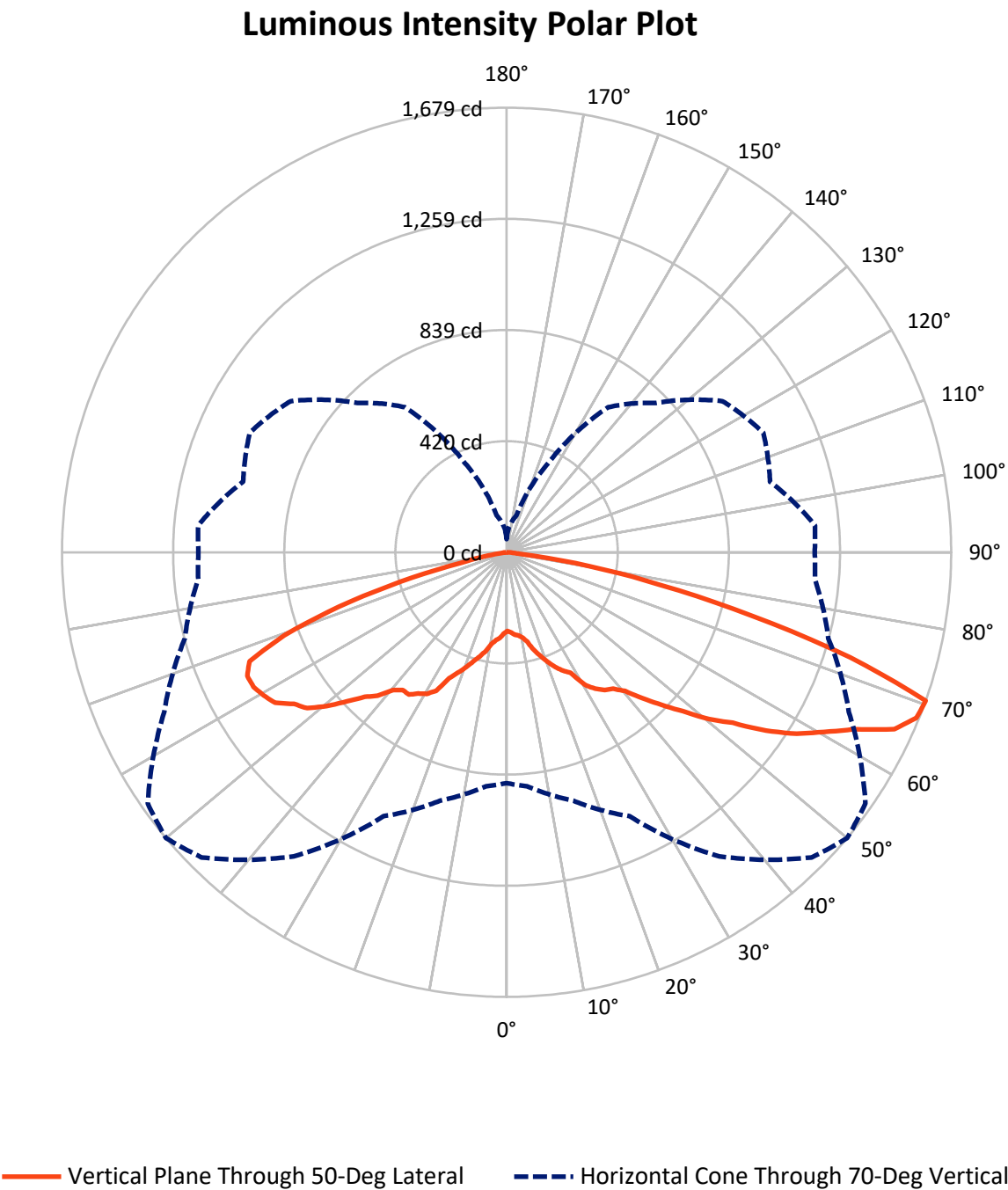
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
Type IV - Short - N/A

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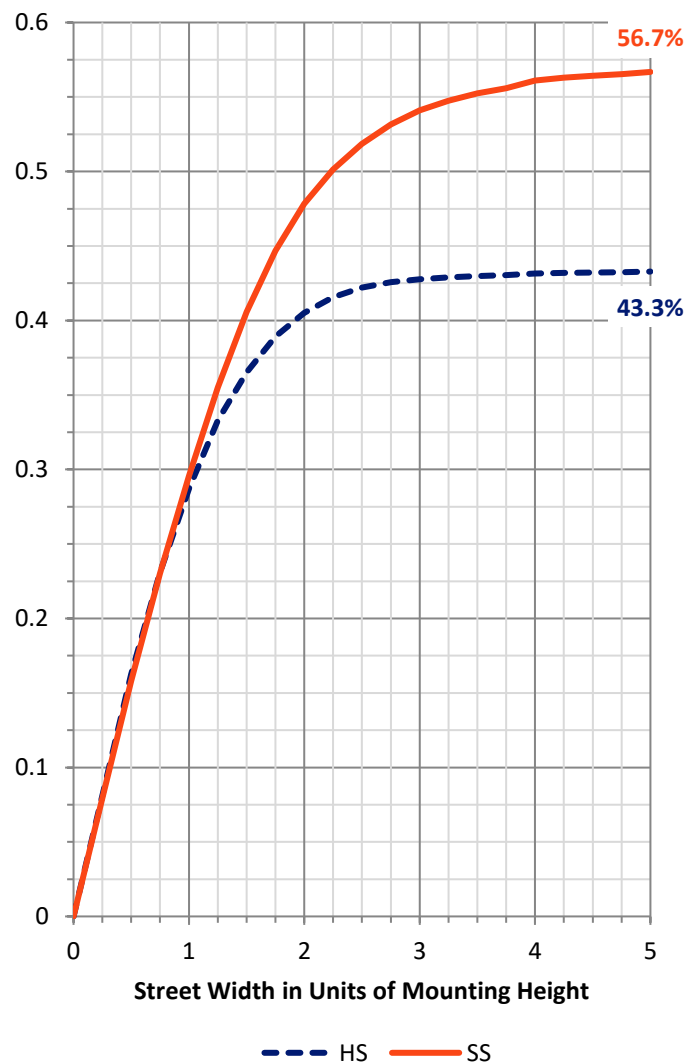
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1744.5   | 0.0    | 1744.5 |
|                    | % Fixture | 43.4     | 0.0    | 43.4   |
| <b>Street Side</b> | Lumens    | 2277.5   | 0.0    | 2277.5 |
|                    | % Fixture | 56.6     | 0.0    | 56.6   |
| <b>Total</b>       | Lumens    | 4022.0   | 0.0    | 4022.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.4   | 0.8       |
| 10°-20°   | 114.5  | 2.8       |
| 20°-30°   | 230.0  | 5.7       |
| 30°-40°   | 386.9  | 9.6       |
| 40°-50°   | 638.0  | 15.9      |
| 50°-60°   | 937.1  | 23.3      |
| 60°-70°   | 1106.2 | 27.5      |
| 70°-80°   | 549.6  | 13.7      |
| 80°-90°   | 29.3   | 0.7       |
| 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°    | 4022.0 | 100.0     |
| 0°-180°   | 4022.0 | 100.0     |

**Coefficient of Utilization**



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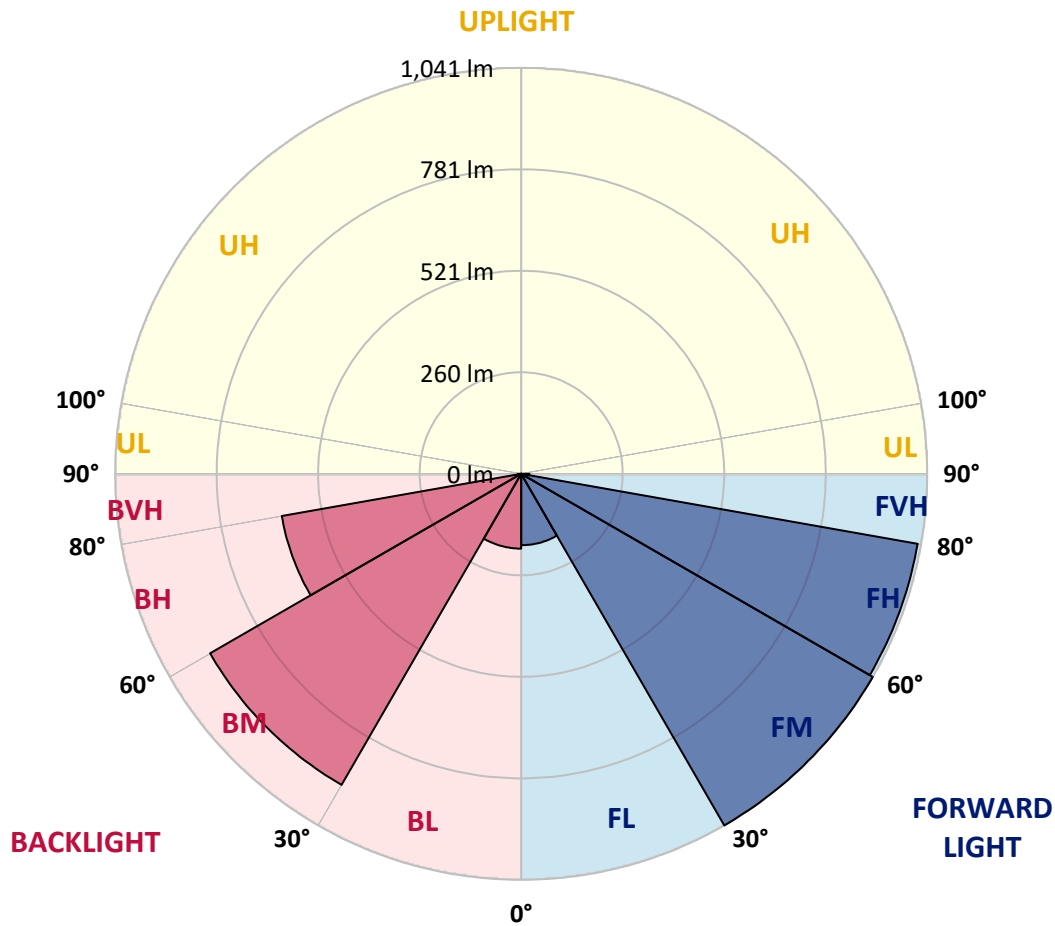
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 183.1  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 1041.1 | 25.9      |                         |      |         |
| FH   | (60°-80°)   | 1032.4 | 25.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 191.9  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 921.0  | 22.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 623.3  | 15.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 8.4    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  |
| 2.5°  | 302.1  | 302.1  | 302.1  | 302.1  | 302.1  | 297.1  | 302.1  | 302.1  | 302.1  | 302.1  | 302.1  |
| 5°    | 312.0  | 307.0  | 307.0  | 307.0  | 312.0  | 312.0  | 312.0  | 312.0  | 312.0  | 307.0  | 312.0  |
| 7.5°  | 307.0  | 307.0  | 312.0  | 316.9  | 316.9  | 316.9  | 316.9  | 316.9  | 312.0  | 312.0  | 312.0  |
| 10°   | 312.0  | 312.0  | 312.0  | 316.9  | 321.9  | 326.8  | 326.8  | 321.9  | 316.9  | 316.9  | 321.9  |
| 12.5° | 326.8  | 326.8  | 331.8  | 331.8  | 341.7  | 346.6  | 346.6  | 346.6  | 341.7  | 346.6  | 351.6  |
| 15°   | 361.5  | 366.5  | 366.5  | 371.4  | 376.4  | 376.4  | 381.3  | 381.3  | 386.3  | 396.2  | 406.1  |
| 17.5° | 420.9  | 425.9  | 416.0  | 406.1  | 411.0  | 411.0  | 411.0  | 411.0  | 425.9  | 440.7  | 445.7  |
| 20°   | 465.5  | 465.5  | 455.6  | 440.7  | 435.8  | 440.7  | 440.7  | 440.7  | 455.6  | 465.5  | 465.5  |
| 22.5° | 475.4  | 475.4  | 480.4  | 470.4  | 465.5  | 470.4  | 470.4  | 470.4  | 475.4  | 470.4  | 475.4  |
| 25°   | 490.3  | 490.3  | 490.3  | 490.3  | 490.3  | 495.2  | 495.2  | 490.3  | 480.4  | 475.4  | 480.4  |
| 27.5° | 500.2  | 495.2  | 490.3  | 495.2  | 515.0  | 524.9  | 515.0  | 505.1  | 485.3  | 475.4  | 470.4  |
| 30°   | 490.3  | 490.3  | 505.1  | 529.9  | 574.4  | 584.3  | 579.4  | 569.5  | 529.9  | 500.2  | 475.4  |
| 32.5° | 510.1  | 515.0  | 549.7  | 589.3  | 614.1  | 614.1  | 614.1  | 614.1  | 579.4  | 554.6  | 559.6  |
| 35°   | 599.2  | 594.2  | 579.4  | 609.1  | 628.9  | 633.9  | 638.8  | 633.9  | 614.1  | 599.2  | 619.0  |
| 37.5° | 633.9  | 633.9  | 643.8  | 638.8  | 643.8  | 653.7  | 653.7  | 653.7  | 673.5  | 668.5  | 658.6  |
| 40°   | 668.5  | 668.5  | 703.2  | 708.1  | 678.4  | 678.4  | 688.3  | 708.1  | 737.9  | 737.9  | 742.8  |
| 42.5° | 747.8  | 747.8  | 742.8  | 747.8  | 747.8  | 723.0  | 752.7  | 787.4  | 792.3  | 812.1  | 846.8  |
| 45°   | 841.9  | 831.9  | 802.2  | 797.3  | 792.3  | 812.1  | 822.0  | 841.9  | 871.6  | 896.3  | 931.0  |
| 47.5° | 916.1  | 911.2  | 901.3  | 871.6  | 866.6  | 896.3  | 896.3  | 911.2  | 960.7  | 995.4  | 1005.3 |
| 50°   | 1005.3 | 1000.3 | 980.5  | 960.7  | 970.6  | 960.7  | 990.4  | 1025.1 | 1025.1 | 1064.7 | 1089.5 |
| 52.5° | 1079.6 | 1074.6 | 1059.7 | 1064.7 | 1059.7 | 1064.7 | 1069.6 | 1099.4 | 1114.2 | 1104.3 | 1134.0 |
| 55°   | 1094.4 | 1094.4 | 1124.1 | 1143.9 | 1173.6 | 1183.5 | 1188.5 | 1193.4 | 1173.6 | 1163.7 | 1124.1 |
| 57.5° | 1124.1 | 1134.0 | 1153.8 | 1198.4 | 1267.7 | 1297.4 | 1292.5 | 1282.6 | 1228.1 | 1178.6 | 1208.3 |
| 60°   | 1168.7 | 1153.8 | 1158.8 | 1243.0 | 1351.9 | 1401.4 | 1376.7 | 1347.0 | 1257.8 | 1257.8 | 1267.7 |
| 62.5° | 1049.8 | 1059.7 | 1148.9 | 1282.6 | 1426.2 | 1485.6 | 1470.8 | 1451.0 | 1361.8 | 1332.1 | 1322.2 |
| 65°   | 995.4  | 1000.3 | 1049.8 | 1238.0 | 1510.4 | 1624.3 | 1609.4 | 1584.7 | 1446.0 | 1396.5 | 1406.4 |
| 67.5° | 896.3  | 906.2  | 975.6  | 1158.8 | 1480.7 | 1663.9 | 1668.8 | 1634.2 | 1510.4 | 1431.1 | 1391.5 |
| 70°   | 871.6  | 886.4  | 970.6  | 1099.4 | 1401.4 | 1629.2 | 1678.8 | 1654.0 | 1426.2 | 1257.8 | 1168.7 |
| 72.5° | 450.6  | 465.5  | 668.5  | 1005.3 | 1163.7 | 1307.3 | 1356.9 | 1312.3 | 1114.2 | 846.8  | 742.8  |
| 75°   | 326.8  | 336.7  | 396.2  | 658.6  | 1030.0 | 985.5  | 955.8  | 866.6  | 777.5  | 624.0  | 604.2  |
| 77.5° | 49.5   | 59.4   | 222.8  | 480.4  | 732.9  | 584.3  | 594.2  | 559.6  | 648.7  | 465.5  | 425.9  |
| 80°   | 34.7   | 34.7   | 44.6   | 163.4  | 287.2  | 381.3  | 316.9  | 188.2  | 108.9  | 113.9  | 89.1   |
| 82.5° | 19.8   | 24.8   | 24.8   | 34.7   | 49.5   | 54.5   | 49.5   | 39.6   | 49.5   | 59.4   | 49.5   |
| 85°   | 9.9    | 9.9    | 14.9   | 14.9   | 19.8   | 19.8   | 24.8   | 24.8   | 29.7   | 34.7   | 29.7   |
| 87.5° | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 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°    | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1  | 297.1 | 297.1 | 297.1 | 297.1 | 297.1 |
| 2.5°  | 302.1  | 302.1  | 302.1  | 302.1  | 307.0  | 307.0  | 307.0 | 307.0 | 307.0 | 307.0 | 307.0 |
| 5°    | 312.0  | 312.0  | 316.9  | 321.9  | 321.9  | 326.8  | 321.9 | 321.9 | 321.9 | 316.9 | 316.9 |
| 7.5°  | 316.9  | 316.9  | 316.9  | 321.9  | 331.8  | 336.7  | 331.8 | 331.8 | 326.8 | 326.8 | 331.8 |
| 10°   | 326.8  | 326.8  | 331.8  | 341.7  | 346.6  | 356.5  | 356.5 | 351.6 | 351.6 | 346.6 | 346.6 |
| 12.5° | 356.5  | 356.5  | 361.5  | 371.4  | 376.4  | 386.3  | 386.3 | 391.2 | 396.2 | 401.1 | 401.1 |
| 15°   | 406.1  | 401.1  | 396.2  | 396.2  | 401.1  | 411.0  | 411.0 | 420.9 | 440.7 | 445.7 | 445.7 |
| 17.5° | 450.6  | 445.7  | 440.7  | 425.9  | 425.9  | 435.8  | 435.8 | 455.6 | 465.5 | 475.4 | 475.4 |
| 20°   | 470.4  | 465.5  | 470.4  | 460.5  | 455.6  | 465.5  | 470.4 | 480.4 | 480.4 | 480.4 | 480.4 |
| 22.5° | 475.4  | 470.4  | 480.4  | 480.4  | 485.3  | 495.2  | 485.3 | 485.3 | 480.4 | 480.4 | 480.4 |
| 25°   | 480.4  | 475.4  | 475.4  | 485.3  | 515.0  | 529.9  | 500.2 | 480.4 | 475.4 | 470.4 | 470.4 |
| 27.5° | 470.4  | 470.4  | 500.2  | 529.9  | 574.4  | 599.2  | 574.4 | 539.8 | 495.2 | 450.6 | 440.7 |
| 30°   | 480.4  | 490.3  | 544.7  | 584.3  | 609.1  | 619.0  | 614.1 | 559.6 | 510.1 | 490.3 | 495.2 |
| 32.5° | 574.4  | 559.6  | 574.4  | 609.1  | 628.9  | 628.9  | 604.2 | 539.8 | 515.0 | 529.9 | 534.8 |
| 35°   | 628.9  | 628.9  | 653.7  | 643.8  | 653.7  | 648.7  | 589.3 | 574.4 | 579.4 | 544.7 | 534.8 |
| 37.5° | 658.6  | 668.5  | 713.1  | 713.1  | 673.5  | 628.9  | 594.2 | 609.1 | 584.3 | 564.5 | 569.5 |
| 40°   | 747.8  | 742.8  | 752.7  | 762.6  | 732.9  | 614.1  | 638.8 | 604.2 | 604.2 | 624.0 | 638.8 |
| 42.5° | 851.8  | 831.9  | 827.0  | 802.2  | 762.6  | 693.3  | 643.8 | 643.8 | 658.6 | 673.5 | 683.4 |
| 45°   | 935.9  | 926.0  | 916.1  | 876.5  | 792.3  | 737.9  | 683.4 | 688.3 | 708.1 | 718.1 | 732.9 |
| 47.5° | 1015.2 | 1010.2 | 1010.2 | 1000.3 | 881.5  | 767.6  | 767.6 | 742.8 | 757.7 | 767.6 | 777.5 |
| 50°   | 1099.4 | 1094.4 | 1104.3 | 1104.3 | 950.8  | 836.9  | 822.0 | 812.1 | 777.5 | 757.7 | 762.6 |
| 52.5° | 1134.0 | 1139.0 | 1188.5 | 1124.1 | 1000.3 | 911.2  | 866.6 | 802.2 | 718.1 | 648.7 | 648.7 |
| 55°   | 1134.0 | 1163.7 | 1228.1 | 1124.1 | 1015.2 | 955.8  | 856.7 | 728.0 | 658.6 | 633.9 | 643.8 |
| 57.5° | 1218.2 | 1213.3 | 1243.0 | 1139.0 | 1064.7 | 1020.1 | 822.0 | 693.3 | 643.8 | 653.7 | 663.6 |
| 60°   | 1267.7 | 1277.6 | 1317.3 | 1139.0 | 1143.9 | 985.5  | 822.0 | 718.1 | 673.5 | 638.8 | 628.9 |
| 62.5° | 1317.3 | 1317.3 | 1347.0 | 1183.5 | 1208.3 | 955.8  | 871.6 | 698.2 | 549.7 | 480.4 | 485.3 |
| 65°   | 1406.4 | 1411.3 | 1327.2 | 1223.2 | 1163.7 | 1005.3 | 901.3 | 574.4 | 420.9 | 381.3 | 376.4 |
| 67.5° | 1381.6 | 1386.6 | 1277.6 | 1233.1 | 1079.6 | 1030.0 | 747.8 | 505.1 | 386.3 | 351.6 | 302.1 |
| 70°   | 1163.7 | 1168.7 | 1030.0 | 1069.6 | 995.4  | 797.3  | 668.5 | 371.4 | 143.6 | 94.1  | 49.5  |
| 72.5° | 718.1  | 732.9  | 653.7  | 732.9  | 718.1  | 614.1  | 401.1 | 148.6 | 54.5  | 34.7  | 34.7  |
| 75°   | 599.2  | 594.2  | 480.4  | 495.2  | 485.3  | 346.6  | 252.6 | 113.9 | 54.5  | 24.8  | 24.8  |
| 77.5° | 440.7  | 401.1  | 316.9  | 336.7  | 212.9  | 138.7  | 133.7 | 108.9 | 34.7  | 9.9   | 5.0   |
| 80°   | 79.2   | 74.3   | 69.3   | 74.3   | 79.2   | 89.1   | 44.6  | 29.7  | 5.0   | 0.0   | 0.0   |
| 82.5° | 44.6   | 44.6   | 39.6   | 29.7   | 19.8   | 14.9   | 14.9  | 5.0   | 5.0   | 0.0   | 0.0   |
| 85°   | 24.8   | 24.8   | 24.8   | 19.8   | 9.9    | 9.9    | 5.0   | 5.0   | 5.0   | 0.0   | 0.0   |
| 87.5° | 9.9    | 9.9    | 9.9    | 9.9    | 5.0    | 5.0    | 5.0   | 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)