

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: P594201

Luminaire Tested: **ISC-PA1D-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1D-727-U-T2R  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7303 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63  
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: 28.75 FT

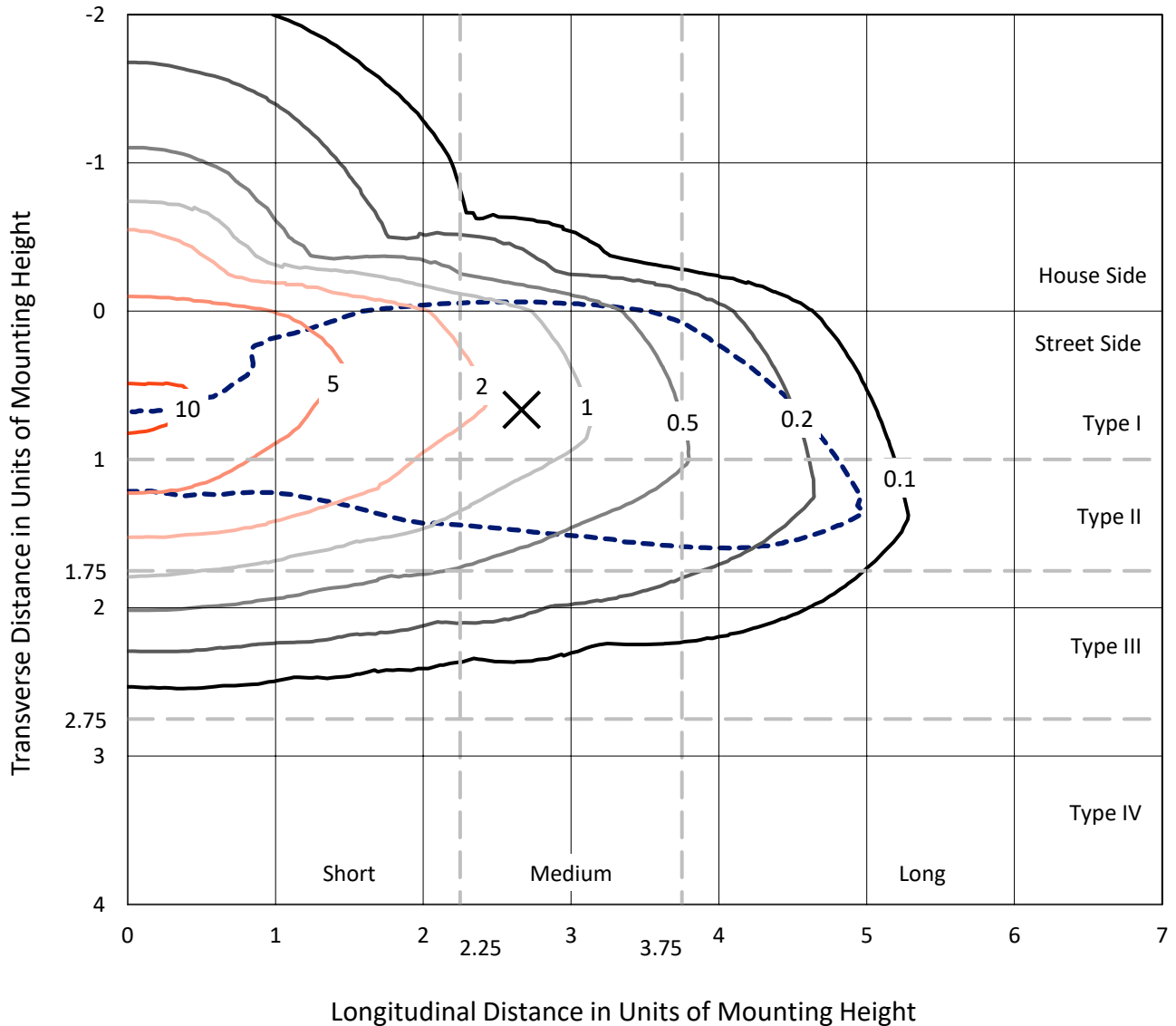




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### Iso-Footcandle Lines of Horizontal Illumination

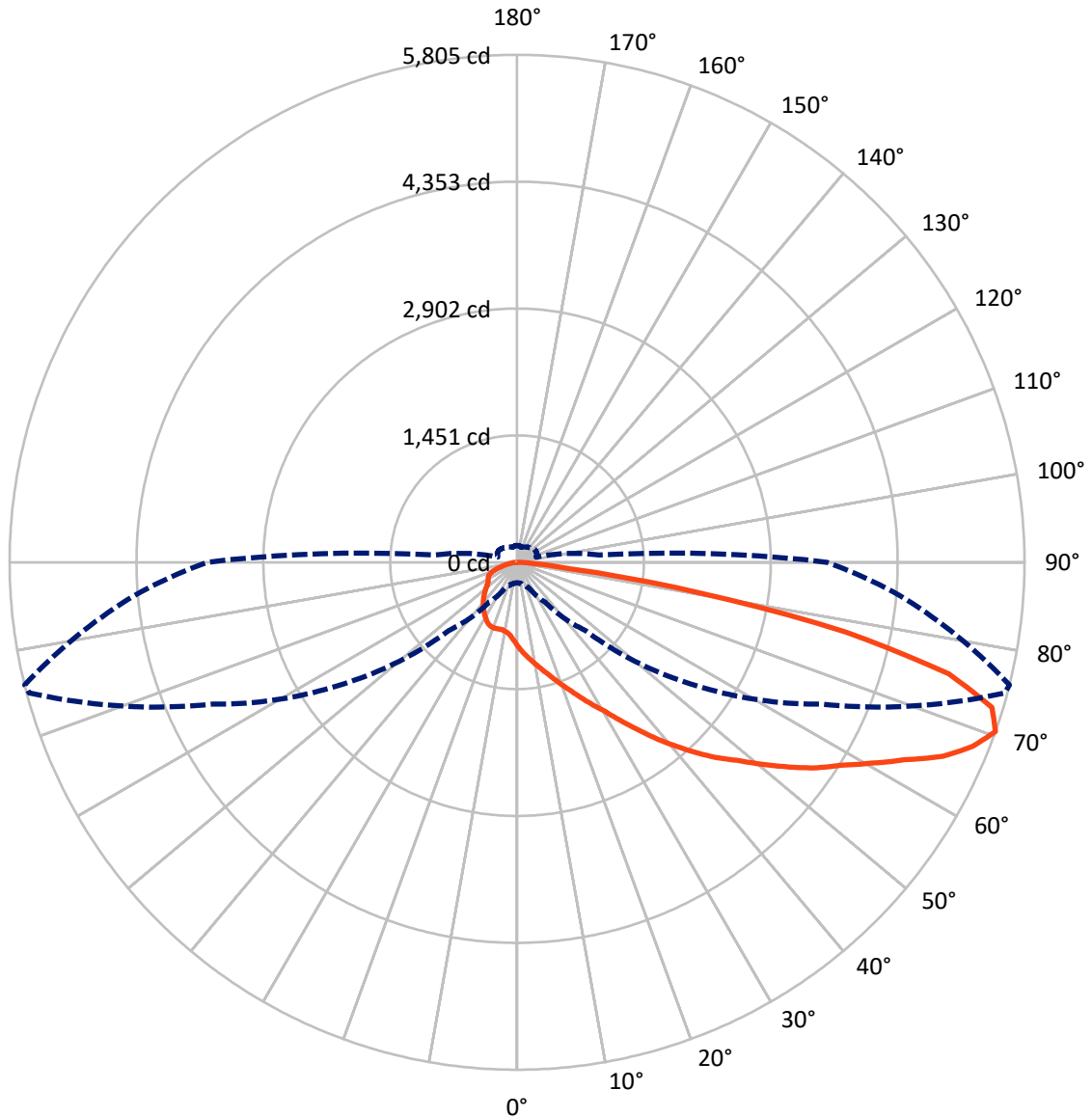
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1171.3   | 0.0    | 1171.3 |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 6131.7   | 0.0    | 6131.7 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 7303.0   | 0.0    | 7303.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.4   | 1.3       |
| 10°-20°   | 308.1  | 4.2       |
| 20°-30°   | 567.8  | 7.8       |
| 30°-40°   | 951.4  | 13.0      |
| 40°-50°   | 1351.8 | 18.5      |
| 50°-60°   | 1560.8 | 21.4      |
| 60°-70°   | 1434.8 | 19.6      |
| 70°-80°   | 904.7  | 12.4      |
| 80°-90°   | 130.1  | 1.8       |
| 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°    | 7303.0 | 100.0     |
| 0°-180°   | 7303.0 | 100.0     |

**Coefficient of Utilization**

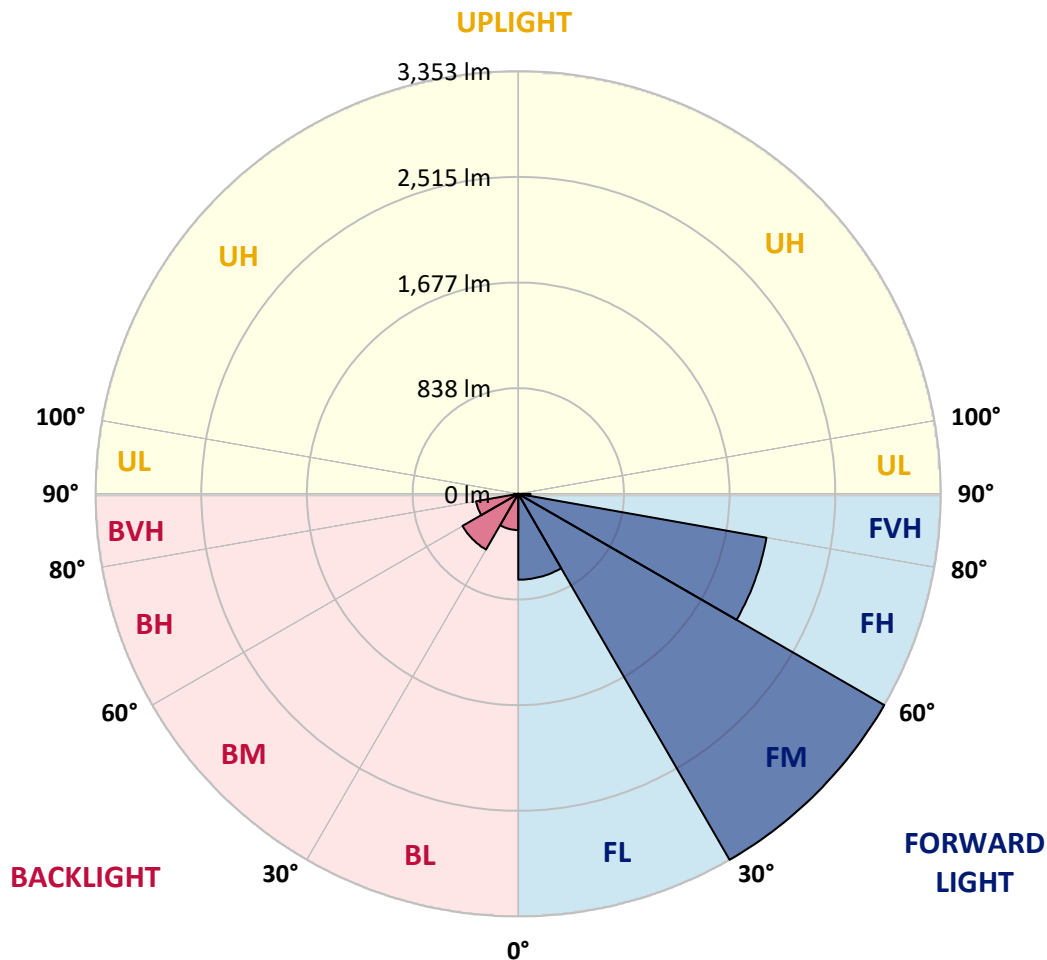


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 681.8  | 9.3       |                         |      |         |
| FM (30°-60°)   | 3353.4 | 45.9      |                         |      |         |
| FH (60°-80°)   | 2000.0 | 27.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 96.5   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 287.5  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 510.7  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 339.5  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 33.7   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  | 958.0  |
| 2.5°  | 1153.2 | 1151.4 | 1146.1 | 1137.3 | 1130.3 | 1109.2 | 1081.1 | 1056.5 | 1019.6 | 1016.1 | 979.1  |
| 5°    | 1256.9 | 1249.9 | 1249.9 | 1241.1 | 1232.3 | 1209.4 | 1174.3 | 1130.3 | 1077.6 | 1074.1 | 1003.7 |
| 7.5°  | 1306.1 | 1307.9 | 1304.3 | 1297.3 | 1299.1 | 1279.7 | 1248.1 | 1204.1 | 1132.1 | 1128.6 | 1037.1 |
| 10°   | 1376.4 | 1374.7 | 1367.6 | 1362.4 | 1360.6 | 1343.0 | 1314.9 | 1274.5 | 1198.9 | 1191.8 | 1075.8 |
| 12.5° | 1445.0 | 1439.7 | 1441.5 | 1439.7 | 1436.2 | 1418.6 | 1392.2 | 1351.8 | 1258.6 | 1255.1 | 1123.3 |
| 15°   | 1483.7 | 1481.9 | 1494.2 | 1497.7 | 1511.8 | 1496.0 | 1473.1 | 1427.4 | 1343.0 | 1329.0 | 1179.5 |
| 17.5° | 1508.3 | 1506.5 | 1518.8 | 1546.9 | 1573.3 | 1573.3 | 1566.3 | 1517.1 | 1423.9 | 1413.3 | 1242.8 |
| 20°   | 1550.5 | 1557.5 | 1578.6 | 1601.4 | 1640.1 | 1647.1 | 1645.4 | 1624.3 | 1517.1 | 1506.5 | 1313.1 |
| 22.5° | 1634.8 | 1631.3 | 1648.9 | 1684.0 | 1719.2 | 1729.8 | 1731.5 | 1731.5 | 1624.3 | 1604.9 | 1385.2 |
| 25°   | 1815.9 | 1807.1 | 1793.0 | 1789.5 | 1831.7 | 1830.0 | 1824.7 | 1837.0 | 1736.8 | 1722.7 | 1467.8 |
| 27.5° | 2160.4 | 2141.1 | 2086.6 | 1977.6 | 1953.0 | 1961.8 | 1935.4 | 1937.2 | 1865.1 | 1847.5 | 1538.1 |
| 30°   | 2487.4 | 2478.6 | 2427.6 | 2295.8 | 2156.9 | 2107.7 | 2062.0 | 2042.7 | 2007.5 | 1977.6 | 1613.7 |
| 32.5° | 2782.7 | 2784.5 | 2723.0 | 2578.8 | 2436.4 | 2281.7 | 2202.6 | 2162.2 | 2176.3 | 2149.9 | 1717.4 |
| 35°   | 2983.1 | 2967.3 | 2928.6 | 2831.9 | 2677.3 | 2529.6 | 2378.4 | 2288.8 | 2364.3 | 2334.5 | 1821.2 |
| 37.5° | 3100.9 | 3088.6 | 3057.0 | 2988.4 | 2911.0 | 2768.7 | 2577.1 | 2439.9 | 2587.6 | 2543.7 | 1953.0 |
| 40°   | 3160.7 | 3143.1 | 3111.4 | 3083.3 | 3046.4 | 2969.1 | 2800.3 | 2612.2 | 2791.5 | 2752.8 | 2083.1 |
| 42.5° | 3167.7 | 3155.4 | 3137.8 | 3123.8 | 3136.1 | 3125.5 | 3018.3 | 2812.6 | 3006.0 | 2963.8 | 2232.5 |
| 45°   | 3162.4 | 3171.2 | 3150.1 | 3125.5 | 3150.1 | 3239.8 | 3239.8 | 3013.0 | 3218.7 | 3187.0 | 2374.9 |
| 47.5° | 3165.9 | 3157.2 | 3150.1 | 3143.1 | 3146.6 | 3269.7 | 3392.7 | 3201.1 | 3422.6 | 3385.7 | 2541.9 |
| 50°   | 3020.0 | 3032.3 | 3092.1 | 3118.5 | 3134.3 | 3276.7 | 3515.8 | 3405.0 | 3675.7 | 3630.0 | 2728.2 |
| 52.5° | 2556.0 | 2563.0 | 2835.5 | 3032.3 | 3095.6 | 3248.6 | 3601.9 | 3631.8 | 3925.3 | 3890.2 | 2928.6 |
| 55°   | 1968.8 | 2005.7 | 2264.1 | 2745.8 | 3007.7 | 3201.1 | 3628.3 | 3779.4 | 4180.2 | 4152.1 | 3130.8 |
| 57.5° | 1620.8 | 1626.0 | 1775.5 | 2206.1 | 2730.0 | 3157.2 | 3654.6 | 3914.8 | 4408.8 | 4377.1 | 3341.7 |
| 60°   | 1344.8 | 1332.5 | 1423.9 | 1701.6 | 2267.7 | 2981.4 | 3659.9 | 4022.0 | 4674.2 | 4663.7 | 3559.7 |
| 62.5° | 987.9  | 1002.0 | 1089.9 | 1325.4 | 1773.7 | 2624.5 | 3633.5 | 4113.4 | 4990.6 | 4976.6 | 3802.3 |
| 65°   | 606.5  | 624.0  | 731.3  | 947.5  | 1343.0 | 2083.1 | 3461.3 | 4160.9 | 5322.9 | 5354.5 | 4064.2 |
| 67.5° | 321.7  | 334.0  | 397.3  | 573.1  | 921.1  | 1587.4 | 3046.4 | 4101.1 | 5604.1 | 5618.2 | 4315.6 |
| 70°   | 235.6  | 237.3  | 258.4  | 323.4  | 555.5  | 1103.9 | 2425.9 | 3841.0 | 5776.4 | 5804.5 | 4398.2 |
| 72.5° | 205.7  | 207.4  | 216.2  | 232.0  | 302.4  | 673.3  | 1738.5 | 3387.4 | 5704.3 | 5679.7 | 4259.3 |
| 75°   | 186.3  | 186.3  | 193.4  | 198.6  | 221.5  | 372.7  | 1065.3 | 2772.2 | 5154.1 | 5099.6 | 3631.8 |
| 77.5° | 160.0  | 160.0  | 167.0  | 174.0  | 191.6  | 240.8  | 557.2  | 2055.0 | 3941.2 | 3848.0 | 2483.9 |
| 80°   | 128.3  | 128.3  | 137.1  | 145.9  | 168.8  | 181.1  | 272.5  | 1374.7 | 2253.6 | 2116.5 | 1130.3 |
| 82.5° | 87.9   | 94.9   | 110.7  | 121.3  | 140.6  | 128.3  | 160.0  | 594.2  | 710.2  | 615.3  | 254.9  |
| 85°   | 52.7   | 56.3   | 79.1   | 91.4   | 105.5  | 68.6   | 98.4   | 228.5  | 212.7  | 186.3  | 58.0   |
| 87.5° | 5.3    | 8.8    | 31.6   | 36.9   | 36.9   | 19.3   | 42.2   | 54.5   | 61.5   | 63.3   | 14.1   |
| 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°    | 958.0  | 958.0  | 958.0 | 958.0 | 958.0 | 958.0 | 958.0 | 958.0 | 958.0 | 958.0 | 958.0 |
| 2.5°  | 958.0  | 937.0  | 896.5 | 859.6 | 822.7 | 798.1 | 773.5 | 764.7 | 752.4 | 743.6 | 750.6 |
| 5°    | 966.8  | 922.9  | 845.5 | 780.5 | 736.6 | 703.2 | 687.3 | 678.5 | 671.5 | 669.8 | 668.0 |
| 7.5°  | 977.4  | 912.3  | 808.6 | 736.6 | 694.4 | 678.5 | 675.0 | 675.0 | 675.0 | 676.8 | 678.5 |
| 10°   | 1000.2 | 915.9  | 789.3 | 711.9 | 689.1 | 685.6 | 687.3 | 694.4 | 694.4 | 696.1 | 696.1 |
| 12.5° | 1026.6 | 924.6  | 775.2 | 708.4 | 694.4 | 696.1 | 697.9 | 701.4 | 701.4 | 706.7 | 704.9 |
| 15°   | 1065.3 | 942.2  | 773.5 | 711.9 | 699.6 | 696.1 | 696.1 | 694.4 | 694.4 | 694.4 | 697.9 |
| 17.5° | 1114.5 | 966.8  | 775.2 | 711.9 | 694.4 | 687.3 | 682.1 | 676.8 | 669.8 | 673.3 | 669.8 |
| 20°   | 1163.7 | 996.7  | 775.2 | 703.2 | 680.3 | 662.7 | 646.9 | 638.1 | 629.3 | 627.6 | 629.3 |
| 22.5° | 1225.2 | 1031.9 | 766.4 | 683.8 | 650.4 | 625.8 | 603.0 | 590.6 | 576.6 | 571.3 | 567.8 |
| 25°   | 1278.0 | 1060.0 | 748.9 | 655.7 | 617.0 | 581.9 | 552.0 | 530.9 | 513.3 | 509.8 | 509.8 |
| 27.5° | 1332.5 | 1084.6 | 722.5 | 620.5 | 569.6 | 530.9 | 497.5 | 471.1 | 453.5 | 451.8 | 450.0 |
| 30°   | 1383.5 | 1105.7 | 687.3 | 581.9 | 527.4 | 481.7 | 443.0 | 420.1 | 404.3 | 395.5 | 390.2 |
| 32.5° | 1450.3 | 1133.8 | 653.9 | 543.2 | 478.1 | 432.4 | 397.3 | 377.9 | 356.8 | 342.8 | 337.5 |
| 35°   | 1534.6 | 1167.2 | 617.0 | 501.0 | 434.2 | 388.5 | 367.4 | 339.3 | 312.9 | 297.1 | 291.8 |
| 37.5° | 1629.6 | 1214.7 | 578.3 | 457.0 | 390.2 | 356.8 | 344.5 | 300.6 | 272.5 | 267.2 | 265.4 |
| 40°   | 1747.3 | 1260.4 | 534.4 | 411.3 | 348.1 | 339.3 | 318.2 | 272.5 | 258.4 | 256.7 | 254.9 |
| 42.5° | 1865.1 | 1309.6 | 492.2 | 365.6 | 314.7 | 318.2 | 288.3 | 265.4 | 253.1 | 249.6 | 247.9 |
| 45°   | 2002.2 | 1358.8 | 450.0 | 325.2 | 288.3 | 288.3 | 272.5 | 258.4 | 247.9 | 244.3 | 244.3 |
| 47.5° | 2146.4 | 1408.1 | 404.3 | 290.1 | 269.0 | 258.4 | 260.2 | 249.6 | 242.6 | 239.1 | 237.3 |
| 50°   | 2327.4 | 1455.5 | 362.1 | 265.4 | 256.7 | 242.6 | 247.9 | 240.8 | 237.3 | 233.8 | 232.0 |
| 52.5° | 2497.9 | 1476.6 | 323.4 | 251.4 | 249.6 | 235.6 | 237.3 | 233.8 | 232.0 | 226.8 | 225.0 |
| 55°   | 2664.9 | 1471.3 | 293.6 | 244.3 | 240.8 | 233.8 | 230.3 | 228.5 | 226.8 | 221.5 | 219.7 |
| 57.5° | 2851.3 | 1464.3 | 274.2 | 242.6 | 235.6 | 228.5 | 228.5 | 223.3 | 216.2 | 216.2 | 216.2 |
| 60°   | 3044.6 | 1441.5 | 265.4 | 242.6 | 233.8 | 228.5 | 225.0 | 219.7 | 212.7 | 214.5 | 212.7 |
| 62.5° | 3262.6 | 1397.5 | 260.2 | 247.9 | 235.6 | 226.8 | 223.3 | 216.2 | 207.4 | 209.2 | 207.4 |
| 65°   | 3454.2 | 1307.9 | 256.7 | 253.1 | 239.1 | 228.5 | 219.7 | 210.9 | 200.4 | 202.2 | 200.4 |
| 67.5° | 3584.3 | 1156.7 | 246.1 | 256.7 | 244.3 | 226.8 | 216.2 | 203.9 | 189.9 | 196.9 | 195.1 |
| 70°   | 3547.4 | 940.5  | 226.8 | 249.6 | 249.6 | 228.5 | 210.9 | 195.1 | 179.3 | 193.4 | 188.1 |
| 72.5° | 3260.9 | 706.7  | 189.9 | 225.0 | 246.1 | 228.5 | 200.4 | 181.1 | 167.0 | 175.8 | 165.2 |
| 75°   | 2677.3 | 479.9  | 151.2 | 179.3 | 230.3 | 230.3 | 191.6 | 167.0 | 149.4 | 144.1 | 140.6 |
| 77.5° | 1670.0 | 298.8  | 117.8 | 131.8 | 193.4 | 228.5 | 182.8 | 149.4 | 124.8 | 121.3 | 117.8 |
| 80°   | 661.0  | 160.0  | 93.2  | 94.9  | 142.4 | 209.2 | 170.5 | 126.6 | 100.2 | 96.7  | 89.7  |
| 82.5° | 151.2  | 80.9   | 65.0  | 63.3  | 87.9  | 170.5 | 154.7 | 100.2 | 77.3  | 77.3  | 65.0  |
| 85°   | 45.7   | 42.2   | 42.2  | 40.4  | 43.9  | 87.9  | 119.5 | 68.6  | 52.7  | 36.9  | 31.6  |
| 87.5° | 12.3   | 17.6   | 15.8  | 14.1  | 14.1  | 12.3  | 38.7  | 17.6  | 10.5  | 5.3   | 3.5   |
| 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)