

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: P594288

Luminaire Tested: **ISC-PA1E-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-727-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8693 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

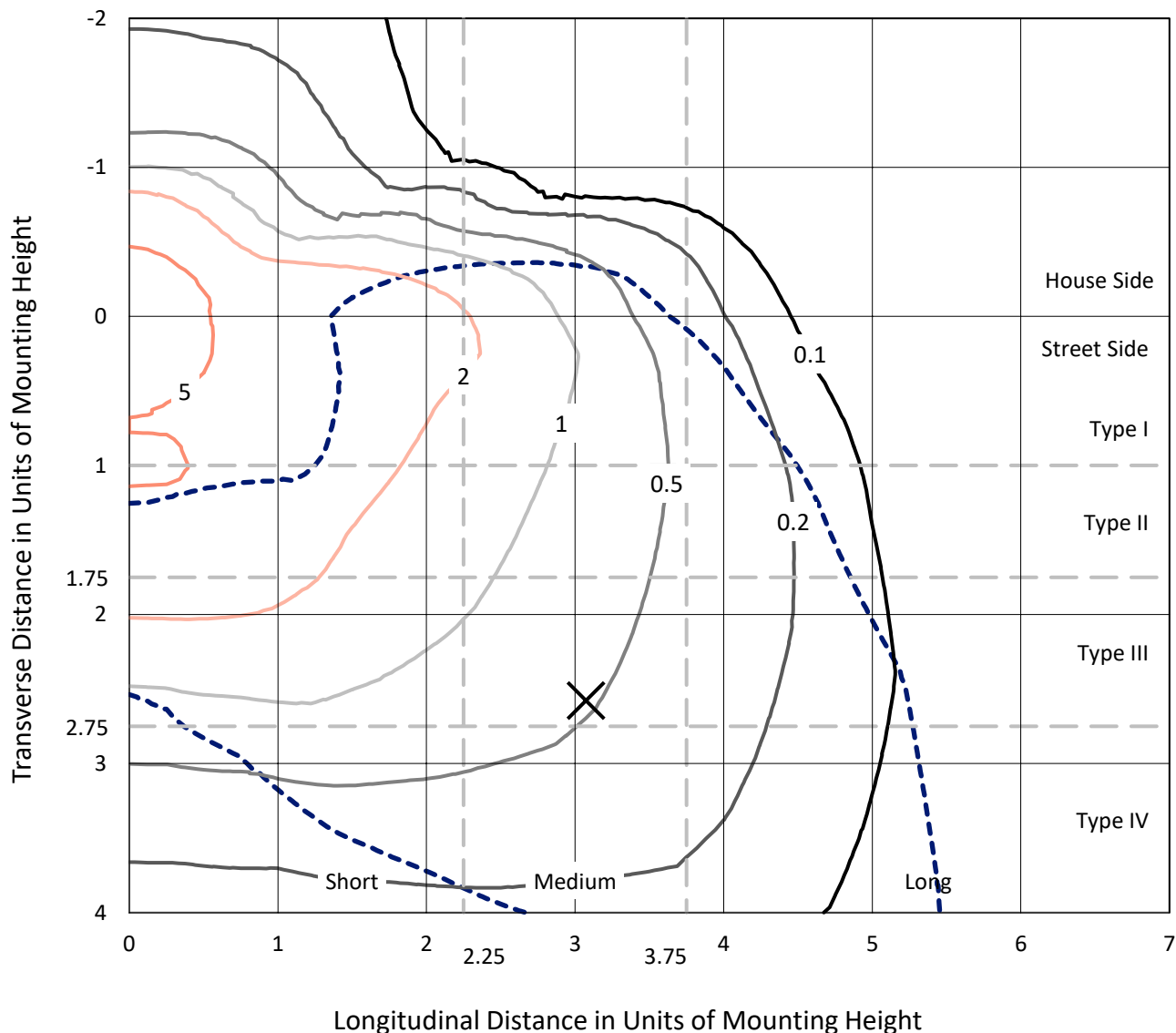
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

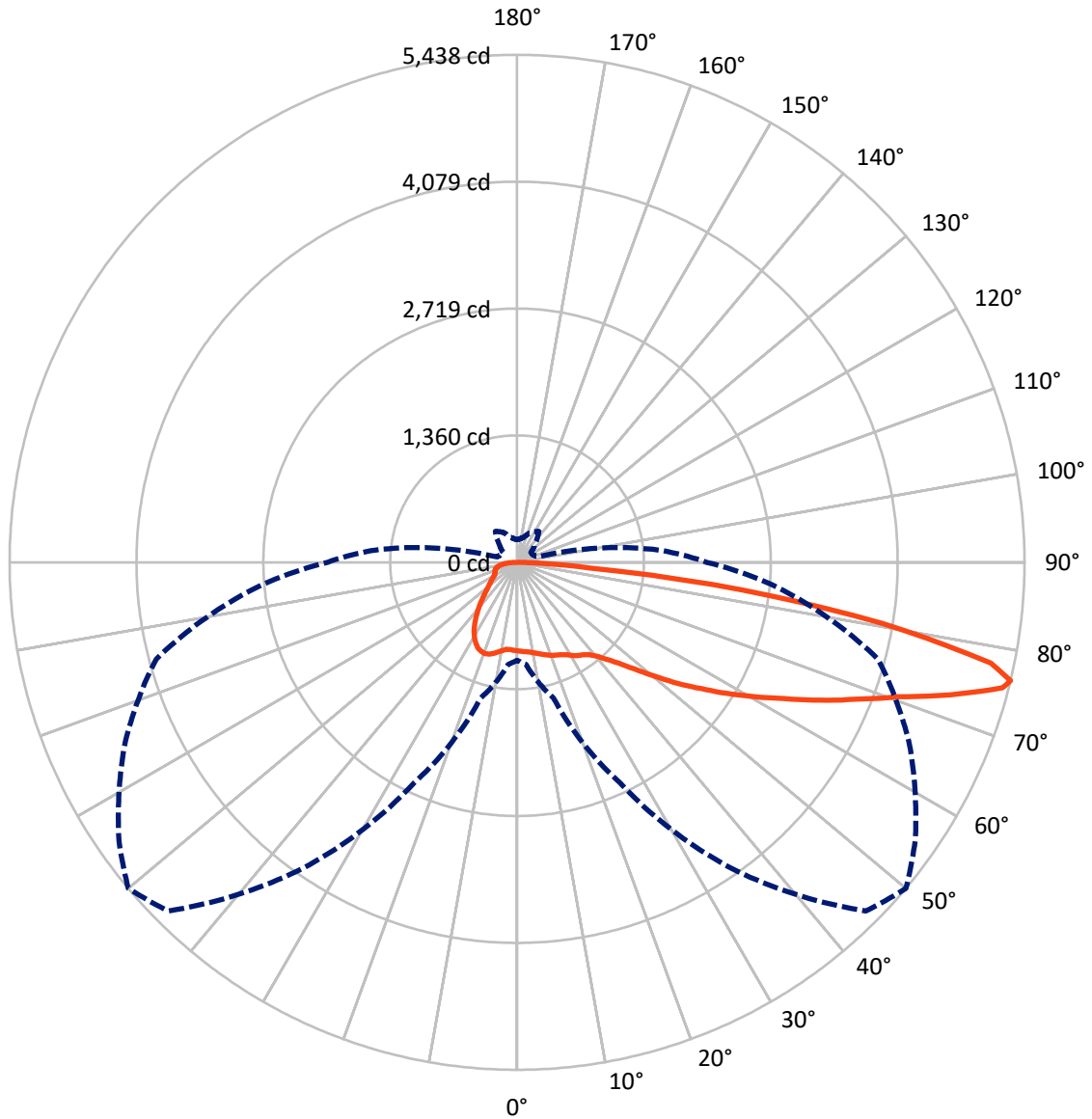
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1988.6   | 0.0    | 1988.6 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 6704.4   | 0.0    | 6704.4 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 8693.0   | 0.0    | 8693.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.0   | 1.1       |
| 10°-20°   | 289.3  | 3.3       |
| 20°-30°   | 488.6  | 5.6       |
| 30°-40°   | 669.8  | 7.7       |
| 40°-50°   | 986.4  | 11.3      |
| 50°-60°   | 1551.7 | 17.9      |
| 60°-70°   | 2233.6 | 25.7      |
| 70°-80°   | 2031.0 | 23.4      |
| 80°-90°   | 350.6  | 4.0       |
| 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°    | 8693.0 | 100.0     |
| 0°-180°   | 8693.0 | 100.0     |

**Coefficient of Utilization**

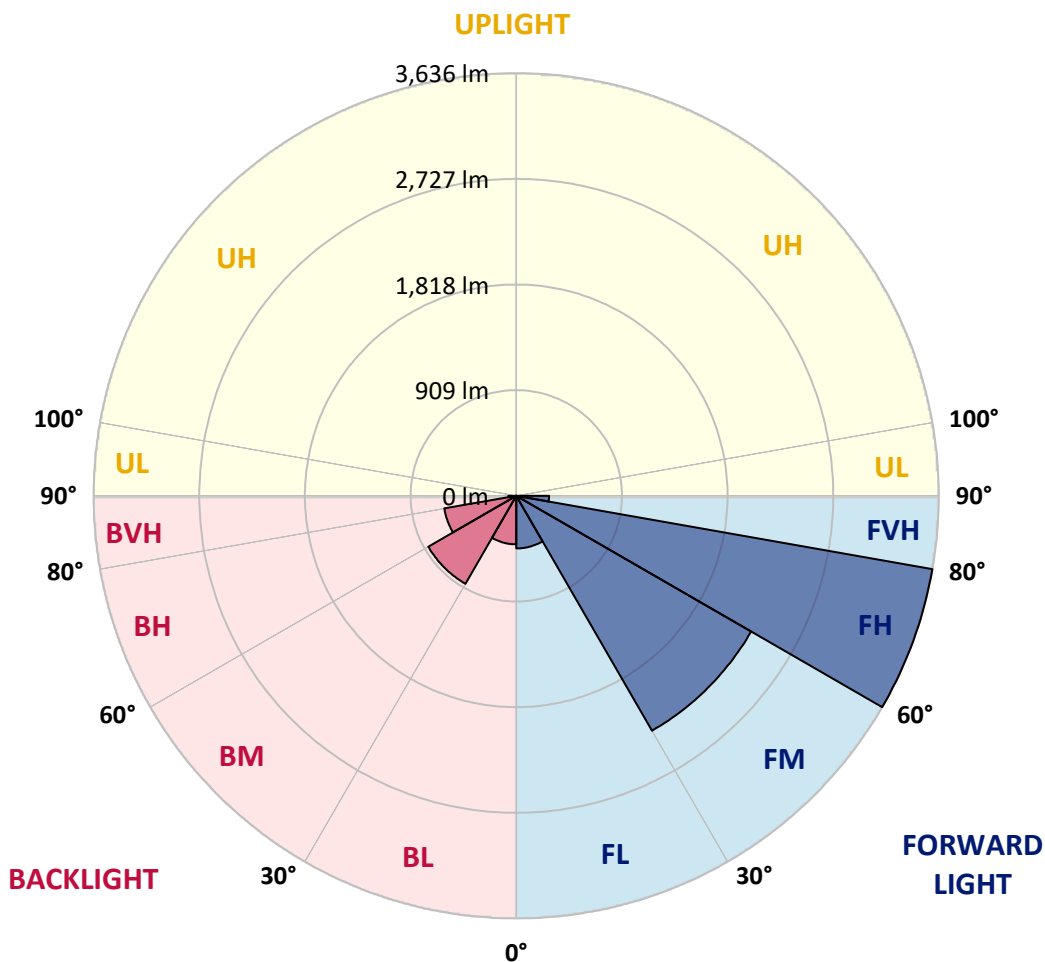


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 452.4  | 5.2       |                         |      |         |
| FM (30°-60°)   | 2333.9 | 26.8      |                         |      |         |
| FH (60°-80°)   | 3635.8 | 41.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 282.2  | 3.2       |                         |      | G3/500  |
| BL (0°-30°)    | 417.5  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 874.0  | 10.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 628.7  | 7.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 68.4   | 0.8       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  |
| 2.5°  | 968.8  | 968.8  | 970.9  | 966.7  | 966.7  | 956.0  | 956.0  | 953.9  | 949.6  | 947.5  | 943.3  |
| 5°    | 1005.0 | 1005.0 | 998.6  | 988.0  | 981.6  | 968.8  | 962.4  | 958.2  | 949.6  | 939.0  | 928.4  |
| 7.5°  | 1043.3 | 1039.1 | 1034.8 | 1017.8 | 1005.0 | 981.6  | 970.9  | 964.6  | 947.5  | 932.6  | 926.2  |
| 10°   | 1083.8 | 1077.4 | 1066.8 | 1045.5 | 1026.3 | 998.6  | 985.8  | 977.3  | 958.2  | 945.4  | 930.5  |
| 12.5° | 1107.2 | 1107.2 | 1094.4 | 1068.9 | 1043.3 | 1009.3 | 1002.9 | 992.2  | 973.1  | 956.0  | 941.1  |
| 15°   | 1130.6 | 1132.8 | 1120.0 | 1090.2 | 1060.4 | 1034.8 | 1024.2 | 1017.8 | 996.5  | 970.9  | 951.8  |
| 17.5° | 1154.1 | 1151.9 | 1139.1 | 1105.1 | 1073.1 | 1049.7 | 1043.3 | 1034.8 | 1013.5 | 990.1  | 970.9  |
| 20°   | 1171.1 | 1166.8 | 1162.6 | 1120.0 | 1088.0 | 1073.1 | 1064.6 | 1058.2 | 1036.9 | 1011.4 | 985.8  |
| 22.5° | 1175.3 | 1179.6 | 1175.3 | 1124.2 | 1098.7 | 1081.7 | 1079.5 | 1073.1 | 1056.1 | 1032.7 | 1007.1 |
| 25°   | 1177.5 | 1179.6 | 1186.0 | 1137.0 | 1113.6 | 1100.8 | 1096.6 | 1092.3 | 1079.5 | 1060.4 | 1026.3 |
| 27.5° | 1188.1 | 1190.3 | 1190.3 | 1145.5 | 1132.8 | 1124.2 | 1120.0 | 1120.0 | 1113.6 | 1090.2 | 1056.1 |
| 30°   | 1190.3 | 1192.4 | 1196.6 | 1166.8 | 1162.6 | 1156.2 | 1158.3 | 1156.2 | 1145.5 | 1120.0 | 1081.7 |
| 32.5° | 1205.2 | 1207.3 | 1217.9 | 1179.6 | 1183.9 | 1190.3 | 1192.4 | 1190.3 | 1169.0 | 1147.7 | 1115.7 |
| 35°   | 1254.1 | 1252.0 | 1260.5 | 1211.5 | 1207.3 | 1209.4 | 1215.8 | 1213.7 | 1205.2 | 1186.0 | 1164.7 |
| 37.5° | 1411.7 | 1411.7 | 1388.3 | 1286.1 | 1254.1 | 1249.9 | 1254.1 | 1264.8 | 1266.9 | 1249.9 | 1232.8 |
| 40°   | 1688.5 | 1673.6 | 1660.8 | 1439.4 | 1337.2 | 1311.6 | 1324.4 | 1330.8 | 1347.8 | 1347.8 | 1347.8 |
| 42.5° | 1973.8 | 1975.9 | 1971.7 | 1677.9 | 1486.2 | 1422.3 | 1424.5 | 1439.4 | 1475.6 | 1482.0 | 1501.1 |
| 45°   | 2227.2 | 2242.1 | 2274.0 | 1954.7 | 1705.5 | 1562.9 | 1548.0 | 1562.9 | 1614.0 | 1656.6 | 1705.5 |
| 47.5° | 2425.2 | 2408.2 | 2478.4 | 2244.2 | 1956.8 | 1754.5 | 1716.2 | 1720.4 | 1790.7 | 1858.8 | 1935.5 |
| 50°   | 2595.6 | 2599.8 | 2631.8 | 2540.2 | 2274.0 | 1971.7 | 1920.6 | 1912.1 | 2012.1 | 2084.5 | 2214.4 |
| 52.5° | 2787.2 | 2774.4 | 2821.3 | 2800.0 | 2582.8 | 2237.8 | 2156.9 | 2131.4 | 2240.0 | 2342.2 | 2482.7 |
| 55°   | 2878.7 | 2891.5 | 2987.3 | 3040.6 | 2874.5 | 2476.3 | 2386.9 | 2395.4 | 2510.4 | 2619.0 | 2814.9 |
| 57.5° | 3040.6 | 3053.3 | 3164.1 | 3274.8 | 3134.3 | 2729.7 | 2650.9 | 2650.9 | 2780.8 | 2902.2 | 3204.5 |
| 60°   | 3262.0 | 3264.1 | 3377.0 | 3568.6 | 3362.1 | 2974.6 | 2923.5 | 2921.3 | 3061.9 | 3202.4 | 3664.4 |
| 62.5° | 3360.0 | 3385.5 | 3553.7 | 3802.8 | 3660.2 | 3274.8 | 3215.2 | 3232.2 | 3357.8 | 3521.8 | 4177.6 |
| 65°   | 3227.9 | 3283.3 | 3634.6 | 3960.4 | 3926.3 | 3587.8 | 3564.4 | 3587.8 | 3664.4 | 3841.2 | 4720.6 |
| 67.5° | 2791.4 | 2866.0 | 3485.6 | 4066.9 | 4139.3 | 3949.8 | 3915.7 | 3911.4 | 3960.4 | 4158.4 | 5063.4 |
| 70°   | 2565.7 | 2610.5 | 3091.7 | 4107.3 | 4309.6 | 4316.0 | 4316.0 | 4288.3 | 4281.9 | 4426.7 | 5095.3 |
| 72.5° | 2112.2 | 2159.1 | 2608.3 | 3881.6 | 4471.4 | 4805.7 | 4854.7 | 4752.5 | 4594.9 | 4565.1 | 4560.9 |
| 75°   | 1505.4 | 1539.4 | 1927.0 | 3053.3 | 4264.9 | 5276.3 | 5374.2 | 5176.2 | 4737.6 | 4262.8 | 3325.9 |
| 76°   | 1049.7 | 1098.7 | 1505.4 | 2608.3 | 4005.1 | 5284.8 | 5438.1 | 5208.2 | 4641.8 | 4003.0 | 2740.3 |
| 77.5° | 532.3  | 549.3  | 870.9  | 1752.4 | 3351.4 | 5042.1 | 5191.1 | 4933.5 | 4224.4 | 3234.3 | 1739.6 |
| 80°   | 202.3  | 208.7  | 310.9  | 638.8  | 1839.7 | 3915.7 | 3973.2 | 3626.1 | 2795.7 | 1381.9 | 626.0  |
| 82.5° | 106.5  | 110.7  | 174.6  | 315.1  | 755.9  | 2152.7 | 2429.5 | 2022.8 | 1096.6 | 415.2  | 183.1  |
| 85°   | 53.2   | 57.5   | 102.2  | 191.6  | 374.7  | 672.8  | 779.3  | 736.7  | 364.1  | 157.6  | 68.1   |
| 87.5° | 21.3   | 25.6   | 51.1   | 85.2   | 151.2  | 132.0  | 146.9  | 189.5  | 117.1  | 74.5   | 23.4   |
| 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°    | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  | 947.5  |
| 2.5°  | 943.3  | 941.1  | 943.3  | 941.1  | 943.3  | 943.3  | 945.4  | 941.1  | 941.1  | 945.4  | 939.0  |
| 5°    | 928.4  | 926.2  | 928.4  | 932.6  | 934.7  | 939.0  | 947.5  | 945.4  | 949.6  | 953.9  | 956.0  |
| 7.5°  | 922.0  | 919.8  | 926.2  | 928.4  | 934.7  | 943.3  | 956.0  | 964.6  | 968.8  | 977.3  | 973.1  |
| 10°   | 928.4  | 928.4  | 936.9  | 943.3  | 953.9  | 964.6  | 975.2  | 983.7  | 994.4  | 1000.7 | 998.6  |
| 12.5° | 939.0  | 936.9  | 951.8  | 960.3  | 975.2  | 985.8  | 994.4  | 998.6  | 1007.1 | 1015.7 | 1013.5 |
| 15°   | 949.6  | 951.8  | 973.1  | 990.1  | 1007.1 | 1011.4 | 1013.5 | 1009.3 | 1013.5 | 1017.8 | 1017.8 |
| 17.5° | 970.9  | 973.1  | 996.5  | 1015.7 | 1030.6 | 1026.3 | 1015.7 | 1005.0 | 1005.0 | 1007.1 | 1009.3 |
| 20°   | 988.0  | 992.2  | 1019.9 | 1036.9 | 1045.5 | 1028.4 | 1011.4 | 998.6  | 992.2  | 994.4  | 992.2  |
| 22.5° | 1007.1 | 1015.7 | 1043.3 | 1051.9 | 1039.1 | 1017.8 | 996.5  | 979.5  | 979.5  | 981.6  | 981.6  |
| 25°   | 1030.6 | 1034.8 | 1054.0 | 1049.7 | 1026.3 | 994.4  | 977.3  | 970.9  | 968.8  | 970.9  | 973.1  |
| 27.5° | 1051.9 | 1054.0 | 1064.6 | 1034.8 | 990.1  | 956.0  | 949.6  | 951.8  | 953.9  | 956.0  | 958.2  |
| 30°   | 1079.5 | 1083.8 | 1073.1 | 1013.5 | 945.4  | 907.1  | 907.1  | 919.8  | 924.1  | 930.5  | 928.4  |
| 32.5° | 1113.6 | 1117.9 | 1085.9 | 985.8  | 887.9  | 849.6  | 851.7  | 870.9  | 883.6  | 887.9  | 890.0  |
| 35°   | 1171.1 | 1162.6 | 1094.4 | 947.5  | 826.1  | 779.3  | 781.4  | 804.9  | 821.9  | 828.3  | 824.0  |
| 37.5° | 1241.4 | 1239.2 | 1107.2 | 898.5  | 749.5  | 706.9  | 709.0  | 719.7  | 736.7  | 738.9  | 741.0  |
| 40°   | 1358.5 | 1341.4 | 1128.5 | 834.7  | 672.8  | 632.4  | 628.1  | 634.5  | 632.4  | 636.6  | 638.8  |
| 42.5° | 1526.7 | 1482.0 | 1156.2 | 762.3  | 604.7  | 562.1  | 557.9  | 547.2  | 534.4  | 521.7  | 515.3  |
| 45°   | 1724.7 | 1654.4 | 1190.3 | 687.7  | 534.4  | 496.1  | 485.5  | 472.7  | 447.1  | 419.5  | 410.9  |
| 47.5° | 1980.2 | 1846.1 | 1228.6 | 613.2  | 468.4  | 438.6  | 430.1  | 410.9  | 381.1  | 349.2  | 342.8  |
| 50°   | 2242.1 | 2071.8 | 1266.9 | 551.5  | 415.2  | 398.2  | 389.7  | 370.5  | 332.2  | 302.4  | 296.0  |
| 52.5° | 2546.6 | 2295.3 | 1307.4 | 496.1  | 368.4  | 368.4  | 362.0  | 332.2  | 296.0  | 268.3  | 264.0  |
| 55°   | 2897.9 | 2525.3 | 1371.2 | 442.9  | 334.3  | 342.8  | 334.3  | 304.5  | 270.4  | 251.3  | 249.1  |
| 57.5° | 3317.4 | 2817.0 | 1452.1 | 385.4  | 304.5  | 310.9  | 310.9  | 289.6  | 266.2  | 253.4  | 251.3  |
| 60°   | 3739.0 | 3113.0 | 1503.3 | 342.8  | 281.1  | 287.4  | 300.2  | 289.6  | 274.7  | 268.3  | 266.2  |
| 62.5° | 4143.5 | 3415.3 | 1416.0 | 306.6  | 257.6  | 276.8  | 308.7  | 310.9  | 296.0  | 298.1  | 298.1  |
| 65°   | 4445.9 | 3645.3 | 1145.5 | 274.7  | 242.7  | 283.2  | 334.3  | 336.4  | 310.9  | 304.5  | 302.4  |
| 67.5° | 4550.2 | 3709.2 | 770.8  | 253.4  | 234.2  | 287.4  | 364.1  | 355.6  | 310.9  | 298.1  | 291.7  |
| 70°   | 4352.2 | 3474.9 | 500.4  | 234.2  | 221.4  | 283.2  | 387.5  | 366.2  | 308.7  | 289.6  | 281.1  |
| 72.5° | 3649.5 | 2963.9 | 334.3  | 217.2  | 208.7  | 278.9  | 402.4  | 366.2  | 302.4  | 274.7  | 266.2  |
| 75°   | 2533.8 | 2024.9 | 249.1  | 195.9  | 189.5  | 272.5  | 406.7  | 359.8  | 287.4  | 257.6  | 251.3  |
| 76°   | 2033.4 | 1518.2 | 225.7  | 187.4  | 181.0  | 268.3  | 404.6  | 353.5  | 276.8  | 249.1  | 242.7  |
| 77.5° | 1283.9 | 873.0  | 189.5  | 172.5  | 168.2  | 259.8  | 396.0  | 338.6  | 261.9  | 234.2  | 227.8  |
| 80°   | 449.3  | 319.4  | 144.8  | 140.5  | 142.7  | 240.6  | 372.6  | 308.7  | 232.1  | 206.5  | 198.0  |
| 82.5° | 178.9  | 146.9  | 108.6  | 108.6  | 112.9  | 206.5  | 336.4  | 272.5  | 202.3  | 170.3  | 157.6  |
| 85°   | 70.3   | 63.9   | 76.7   | 76.7   | 80.9   | 168.2  | 281.1  | 212.9  | 138.4  | 106.5  | 102.2  |
| 87.5° | 21.3   | 29.8   | 34.1   | 36.2   | 38.3   | 85.2   | 159.7  | 93.7   | 61.7   | 44.7   | 36.2   |
| 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)