

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: P594347

Luminaire Tested: **ISC-PA1E-830-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-830-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8410 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

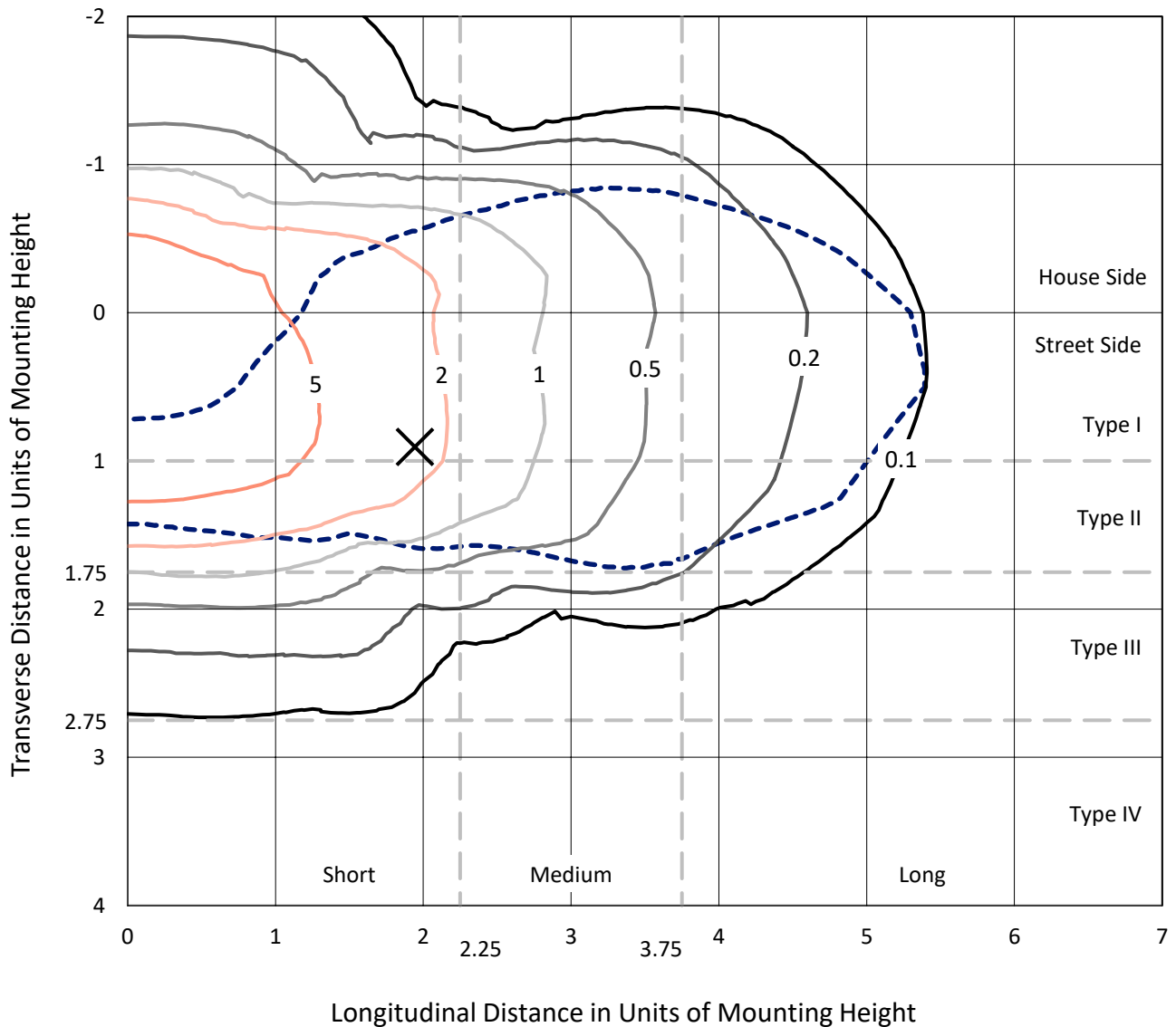
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

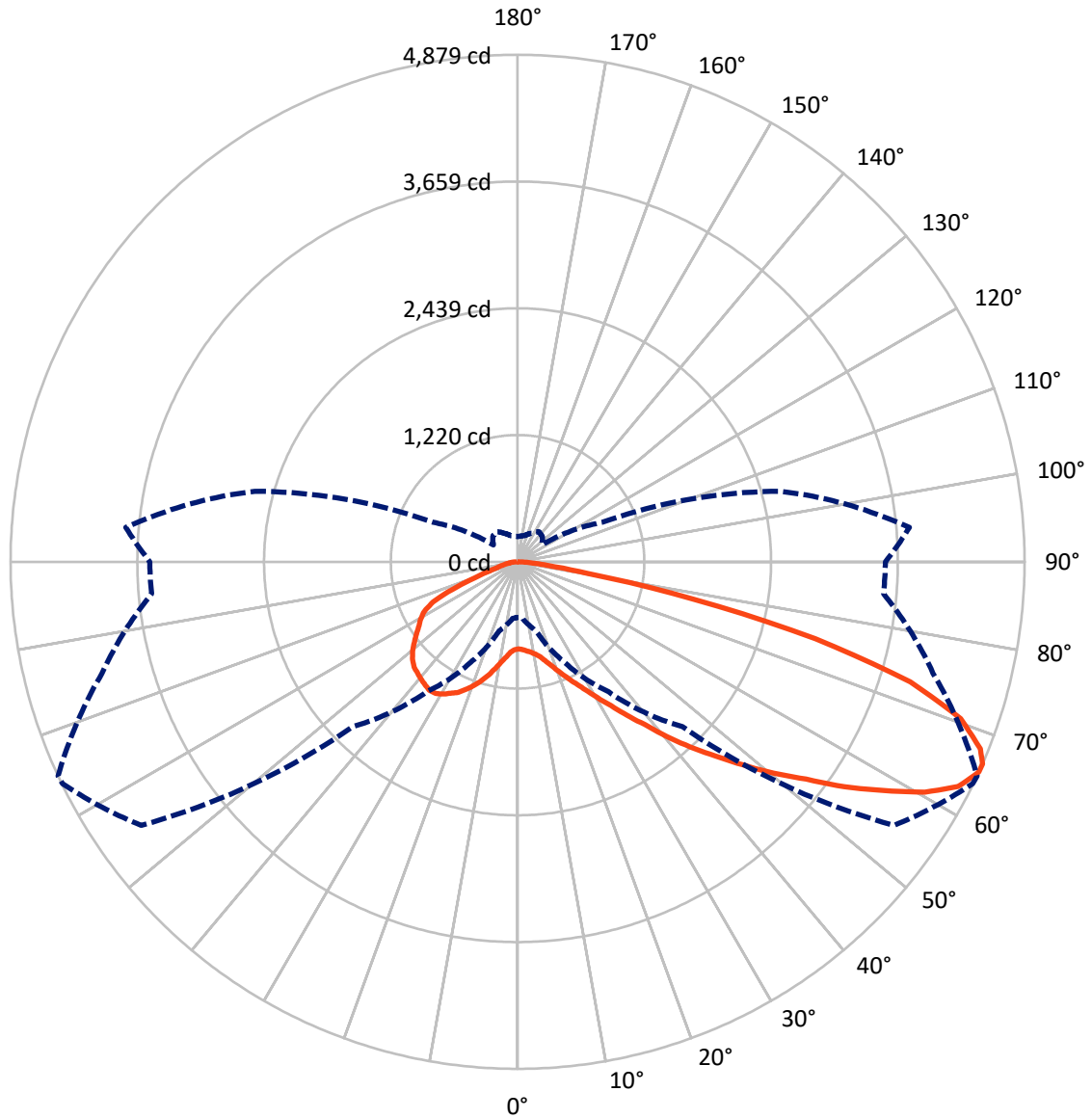
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2553.6   | 0.0    | 2553.6 |
|                    | % Fixture | 30.4     | 0.0    | 30.4   |
| <b>Street Side</b> | Lumens    | 5856.4   | 0.0    | 5856.4 |
|                    | % Fixture | 69.6     | 0.0    | 69.6   |
| <b>Total</b>       | Lumens    | 8410.0   | 0.0    | 8410.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.5   | 1.0       |
| 10°-20°   | 298.1  | 3.5       |
| 20°-30°   | 583.7  | 6.9       |
| 30°-40°   | 953.8  | 11.3      |
| 40°-50°   | 1514.0 | 18.0      |
| 50°-60°   | 1947.2 | 23.2      |
| 60°-70°   | 1756.0 | 20.9      |
| 70°-80°   | 1089.1 | 13.0      |
| 80°-90°   | 182.5  | 2.2       |
| 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°    | 8410.0 | 100.0     |
| 0°-180°   | 8410.0 | 100.0     |

**Coefficient of Utilization**

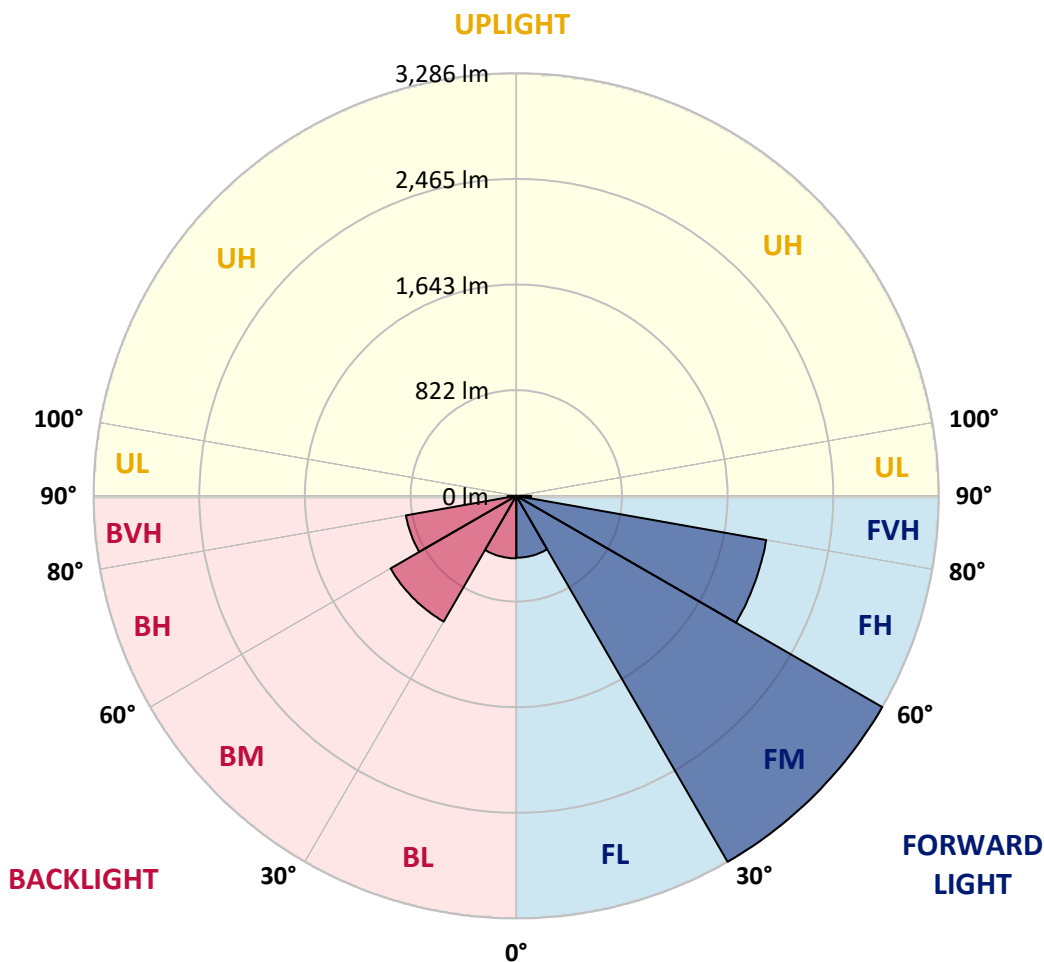


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 480.9  | 5.7       |                         |      |         |
| FM (30°-60°)   | 3286.2 | 39.1      |                         |      |         |
| FH (60°-80°)   | 1973.8 | 23.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 115.4  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 486.4  | 5.8       | B1/500                  |      |         |
| BM (30°-60°)   | 1128.9 | 13.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 871.3  | 10.4      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 67.0   | 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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  |
| 2.5°  | 840.3  | 842.4  | 844.4  | 840.3  | 844.4  | 846.4  | 842.4  | 842.4  | 844.4  | 840.3  | 840.3  |
| 5°    | 834.2  | 836.2  | 840.3  | 842.4  | 850.5  | 854.6  | 856.6  | 856.6  | 858.7  | 856.6  | 858.7  |
| 7.5°  | 817.9  | 817.9  | 826.0  | 830.1  | 842.4  | 856.6  | 864.8  | 877.0  | 877.0  | 879.1  | 885.2  |
| 10°   | 834.2  | 834.2  | 840.3  | 846.4  | 856.6  | 868.9  | 881.1  | 895.4  | 899.5  | 913.7  | 921.9  |
| 12.5° | 858.7  | 862.8  | 870.9  | 879.1  | 891.3  | 905.6  | 915.8  | 930.1  | 932.1  | 946.4  | 962.7  |
| 15°   | 899.5  | 903.5  | 907.6  | 917.8  | 934.1  | 952.5  | 970.9  | 981.0  | 985.1  | 993.3  | 1005.5 |
| 17.5° | 960.7  | 964.7  | 966.8  | 972.9  | 985.1  | 1009.6 | 1036.1 | 1044.3 | 1048.4 | 1048.4 | 1058.6 |
| 20°   | 1064.7 | 1062.6 | 1058.6 | 1046.3 | 1046.3 | 1068.8 | 1105.5 | 1119.7 | 1123.8 | 1115.7 | 1109.5 |
| 22.5° | 1185.0 | 1183.0 | 1166.7 | 1152.4 | 1142.2 | 1146.3 | 1183.0 | 1207.4 | 1205.4 | 1189.1 | 1164.6 |
| 25°   | 1342.1 | 1346.1 | 1319.6 | 1282.9 | 1252.3 | 1244.2 | 1266.6 | 1291.1 | 1295.1 | 1264.6 | 1223.8 |
| 27.5° | 1529.7 | 1523.6 | 1509.3 | 1450.2 | 1391.0 | 1354.3 | 1366.5 | 1393.0 | 1395.1 | 1362.5 | 1297.2 |
| 30°   | 1750.0 | 1739.8 | 1703.1 | 1641.9 | 1550.1 | 1499.1 | 1488.9 | 1511.3 | 1517.5 | 1462.4 | 1368.6 |
| 32.5° | 1994.7 | 1984.5 | 1937.6 | 1843.8 | 1743.9 | 1658.2 | 1625.6 | 1656.2 | 1652.1 | 1588.9 | 1458.3 |
| 35°   | 2290.5 | 2288.4 | 2202.8 | 2086.5 | 1960.1 | 1845.8 | 1801.0 | 1801.0 | 1813.2 | 1719.4 | 1572.5 |
| 37.5° | 2686.2 | 2702.5 | 2576.0 | 2394.5 | 2217.0 | 2064.1 | 1988.6 | 1984.5 | 1986.6 | 1884.6 | 1701.0 |
| 40°   | 3043.1 | 3037.0 | 2963.5 | 2794.3 | 2535.2 | 2339.4 | 2227.2 | 2202.8 | 2208.9 | 2078.4 | 1868.3 |
| 42.5° | 3249.1 | 3255.2 | 3236.8 | 3163.4 | 2937.0 | 2690.2 | 2498.5 | 2433.2 | 2435.3 | 2272.1 | 2027.4 |
| 45°   | 3377.6 | 3383.7 | 3381.7 | 3418.4 | 3328.6 | 3096.1 | 2822.8 | 2671.9 | 2663.7 | 2492.4 | 2215.0 |
| 47.5° | 3451.0 | 3455.1 | 3481.6 | 3557.1 | 3630.5 | 3577.5 | 3181.8 | 2937.0 | 2920.7 | 2698.4 | 2402.7 |
| 50°   | 3369.4 | 3371.5 | 3477.5 | 3657.0 | 3836.5 | 3997.6 | 3548.9 | 3200.1 | 3196.1 | 2926.8 | 2586.2 |
| 52.5° | 2941.1 | 2977.8 | 3212.4 | 3587.7 | 3989.5 | 4295.4 | 3973.1 | 3510.2 | 3475.5 | 3143.0 | 2769.8 |
| 55°   | 2400.6 | 2416.9 | 2686.2 | 3163.4 | 3960.9 | 4479.0 | 4293.4 | 3844.7 | 3820.2 | 3383.7 | 2949.3 |
| 57.5° | 1874.4 | 1890.7 | 2210.9 | 2608.7 | 3524.4 | 4468.8 | 4519.8 | 4205.7 | 4150.6 | 3593.8 | 3128.8 |
| 60°   | 1209.5 | 1260.5 | 1631.7 | 2121.2 | 2853.4 | 4158.8 | 4634.0 | 4552.4 | 4501.4 | 3801.8 | 3281.7 |
| 62.5° | 822.0  | 830.1  | 1062.6 | 1572.5 | 2135.5 | 3379.6 | 4625.8 | 4766.6 | 4758.4 | 4009.9 | 3434.7 |
| 65°   | 534.4  | 546.6  | 687.3  | 1064.7 | 1527.7 | 2243.6 | 4421.9 | 4870.6 | 4878.7 | 4138.4 | 3534.6 |
| 66°   | 452.8  | 461.0  | 569.0  | 895.4  | 1338.0 | 1778.5 | 4242.4 | 4862.4 | 4878.7 | 4197.5 | 3565.2 |
| 67.5° | 393.6  | 399.8  | 454.8  | 660.8  | 1093.2 | 1278.8 | 3775.3 | 4754.3 | 4801.2 | 4252.6 | 3604.0 |
| 70°   | 338.6  | 346.7  | 397.7  | 450.8  | 781.2  | 746.5  | 2390.4 | 4476.9 | 4523.8 | 4279.1 | 3628.5 |
| 72.5° | 279.4  | 285.5  | 336.5  | 407.9  | 567.0  | 501.7  | 1054.5 | 3832.4 | 3950.7 | 4181.2 | 3589.7 |
| 75°   | 220.3  | 224.4  | 271.3  | 340.6  | 434.4  | 391.6  | 458.9  | 2810.6 | 2959.5 | 3685.6 | 3438.8 |
| 77.5° | 171.3  | 173.4  | 210.1  | 265.1  | 397.7  | 303.9  | 283.5  | 1368.6 | 1731.6 | 2847.3 | 3028.8 |
| 80°   | 118.3  | 122.4  | 155.0  | 199.9  | 291.7  | 240.7  | 189.7  | 534.4  | 679.2  | 1890.7 | 2296.6 |
| 82.5° | 77.5   | 79.5   | 106.1  | 150.9  | 193.8  | 230.5  | 124.4  | 259.0  | 285.5  | 870.9  | 995.3  |
| 85°   | 53.0   | 53.0   | 75.5   | 93.8   | 132.6  | 153.0  | 81.6   | 136.7  | 148.9  | 330.4  | 120.3  |
| 87.5° | 26.5   | 26.5   | 36.7   | 49.0   | 63.2   | 59.1   | 49.0   | 49.0   | 49.0   | 108.1  | 34.7   |
| 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°    | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  | 838.3  |
| 2.5°  | 842.4  | 842.4  | 844.4  | 846.4  | 848.5  | 848.5  | 850.5  | 850.5  | 848.5  | 850.5  | 852.6  |
| 5°    | 860.7  | 862.8  | 866.8  | 873.0  | 883.1  | 893.3  | 903.5  | 909.7  | 915.8  | 917.8  | 913.7  |
| 7.5°  | 889.3  | 893.3  | 907.6  | 923.9  | 940.3  | 964.7  | 979.0  | 987.2  | 991.2  | 995.3  | 991.2  |
| 10°   | 926.0  | 934.1  | 954.5  | 983.1  | 1011.6 | 1042.2 | 1058.6 | 1070.8 | 1072.8 | 1076.9 | 1072.8 |
| 12.5° | 968.8  | 983.1  | 1013.7 | 1054.5 | 1089.1 | 1119.7 | 1132.0 | 1123.8 | 1105.5 | 1097.3 | 1095.3 |
| 15°   | 1019.8 | 1034.1 | 1076.9 | 1127.9 | 1168.7 | 1183.0 | 1164.6 | 1138.1 | 1117.7 | 1115.7 | 1113.6 |
| 17.5° | 1064.7 | 1085.1 | 1144.2 | 1197.2 | 1236.0 | 1221.7 | 1172.8 | 1156.5 | 1150.3 | 1158.5 | 1156.5 |
| 20°   | 1121.8 | 1138.1 | 1197.2 | 1262.5 | 1282.9 | 1227.8 | 1193.2 | 1183.0 | 1176.9 | 1176.9 | 1172.8 |
| 22.5° | 1168.7 | 1180.9 | 1252.3 | 1323.7 | 1311.5 | 1231.9 | 1207.4 | 1187.0 | 1166.7 | 1164.6 | 1158.5 |
| 25°   | 1223.8 | 1227.8 | 1303.3 | 1380.8 | 1315.5 | 1236.0 | 1193.2 | 1158.5 | 1138.1 | 1132.0 | 1134.0 |
| 27.5° | 1274.8 | 1284.9 | 1350.2 | 1419.6 | 1305.3 | 1213.6 | 1144.2 | 1099.3 | 1068.8 | 1066.7 | 1066.7 |
| 30°   | 1340.0 | 1340.0 | 1399.2 | 1462.4 | 1282.9 | 1156.5 | 1064.7 | 999.4  | 974.9  | 972.9  | 968.8  |
| 32.5° | 1413.4 | 1401.2 | 1458.3 | 1493.0 | 1234.0 | 1078.9 | 956.6  | 883.1  | 844.4  | 836.2  | 830.1  |
| 35°   | 1515.4 | 1488.9 | 1529.7 | 1499.1 | 1185.0 | 968.8  | 819.9  | 736.3  | 707.7  | 695.5  | 695.5  |
| 37.5° | 1633.7 | 1595.0 | 1637.8 | 1480.8 | 1109.5 | 840.3  | 677.1  | 613.9  | 583.3  | 565.0  | 571.1  |
| 40°   | 1772.4 | 1723.5 | 1747.9 | 1460.4 | 1028.0 | 697.5  | 558.9  | 520.1  | 483.4  | 458.9  | 458.9  |
| 42.5° | 1935.6 | 1854.0 | 1872.4 | 1440.0 | 911.7  | 573.1  | 483.4  | 456.9  | 428.3  | 403.8  | 410.0  |
| 45°   | 2092.6 | 2013.1 | 1994.7 | 1419.6 | 789.3  | 489.5  | 452.8  | 434.4  | 407.9  | 379.4  | 379.4  |
| 47.5° | 2274.2 | 2172.2 | 2102.8 | 1382.9 | 669.0  | 463.0  | 461.0  | 434.4  | 383.4  | 342.7  | 338.6  |
| 50°   | 2445.5 | 2351.7 | 2200.7 | 1327.8 | 601.7  | 485.4  | 458.9  | 395.7  | 346.7  | 320.2  | 318.2  |
| 52.5° | 2627.0 | 2529.1 | 2280.3 | 1260.5 | 567.0  | 475.2  | 422.2  | 363.0  | 326.3  | 299.8  | 293.7  |
| 55°   | 2806.5 | 2755.5 | 2351.7 | 1195.2 | 511.9  | 442.6  | 391.6  | 342.7  | 303.9  | 279.4  | 275.3  |
| 57.5° | 3010.5 | 2990.1 | 2412.9 | 1129.9 | 426.3  | 401.8  | 369.2  | 328.4  | 291.7  | 273.3  | 271.3  |
| 60°   | 3187.9 | 3259.3 | 2486.3 | 1081.0 | 363.0  | 371.2  | 359.0  | 326.3  | 299.8  | 279.4  | 279.4  |
| 62.5° | 3375.5 | 3518.3 | 2551.5 | 1017.8 | 316.1  | 352.9  | 361.0  | 324.3  | 289.6  | 271.3  | 271.3  |
| 65°   | 3538.7 | 3783.5 | 2618.9 | 901.5  | 283.5  | 338.6  | 354.9  | 301.9  | 261.1  | 246.8  | 242.7  |
| 66°   | 3608.1 | 3858.9 | 2639.2 | 830.1  | 271.3  | 328.4  | 344.7  | 289.6  | 248.8  | 236.6  | 234.6  |
| 67.5° | 3689.6 | 3977.2 | 2663.7 | 677.1  | 252.9  | 305.9  | 322.3  | 271.3  | 228.4  | 220.3  | 216.2  |
| 70°   | 3803.9 | 4001.7 | 2649.4 | 442.6  | 220.3  | 263.1  | 287.6  | 242.7  | 204.0  | 197.8  | 191.7  |
| 72.5° | 3816.1 | 3834.5 | 2506.7 | 279.4  | 191.7  | 226.4  | 252.9  | 218.2  | 179.5  | 173.4  | 169.3  |
| 75°   | 3614.2 | 3398.0 | 2121.2 | 199.9  | 169.3  | 199.9  | 222.3  | 189.7  | 148.9  | 140.7  | 136.7  |
| 77.5° | 3085.9 | 2696.4 | 1525.6 | 148.9  | 146.9  | 171.3  | 185.6  | 165.2  | 124.4  | 118.3  | 116.3  |
| 80°   | 2166.1 | 1829.5 | 764.9  | 112.2  | 116.3  | 142.8  | 155.0  | 138.7  | 104.0  | 95.9   | 91.8   |
| 82.5° | 877.0  | 777.1  | 263.1  | 83.6   | 87.7   | 108.1  | 132.6  | 114.2  | 79.5   | 69.3   | 61.2   |
| 85°   | 99.9   | 169.3  | 114.2  | 57.1   | 59.1   | 73.4   | 89.7   | 69.3   | 46.9   | 38.8   | 32.6   |
| 87.5° | 20.4   | 36.7   | 40.8   | 22.4   | 20.4   | 28.6   | 40.8   | 24.5   | 16.3   | 6.1    | 8.2    |
| 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)