

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: P594333

Luminaire Tested: **ISC-PA1E-760-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594333
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-760-U-T4W
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 5700K, 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: 10394 lumens
Efficiency: N/A
Efficacy: 126.1 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

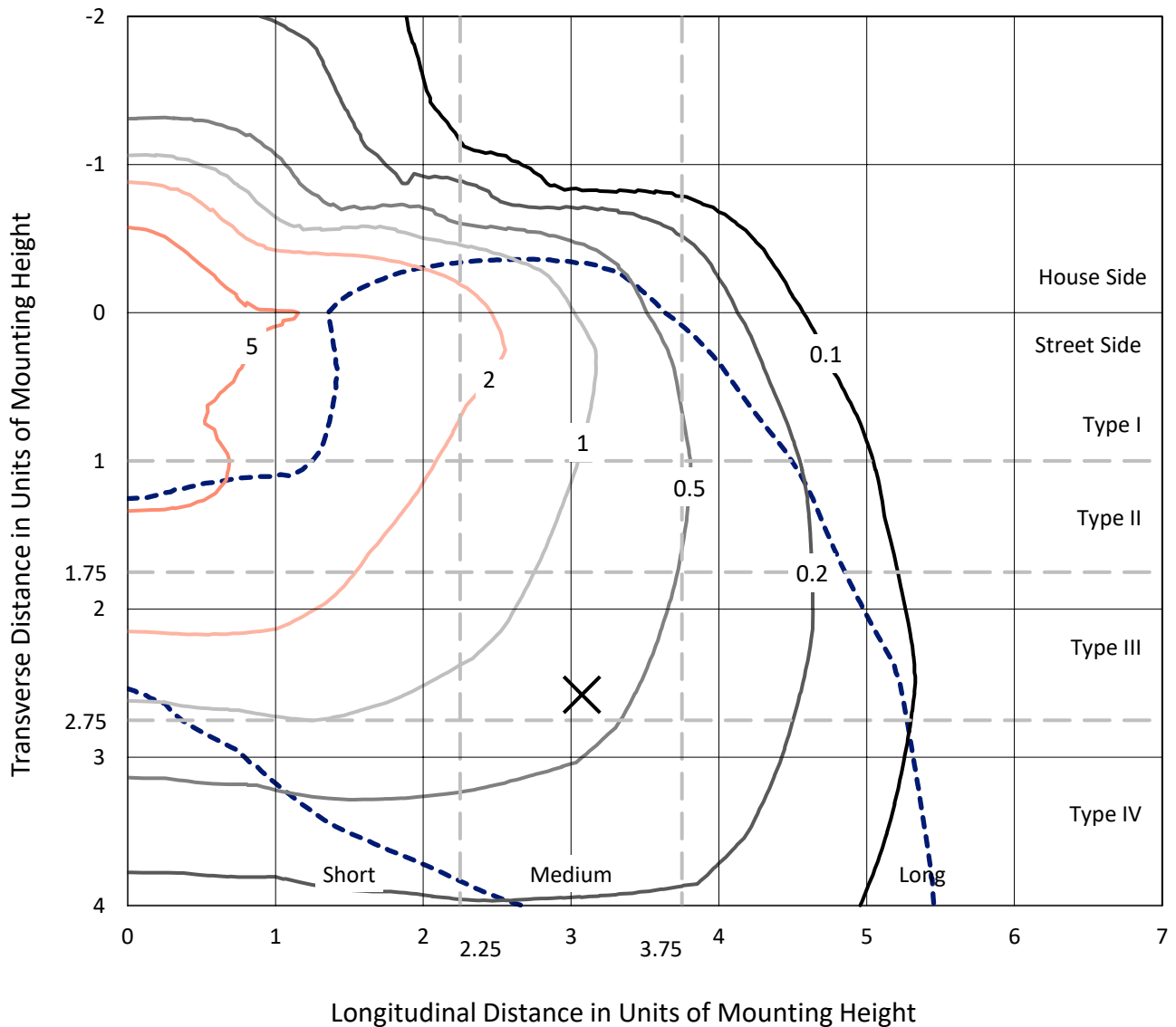
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

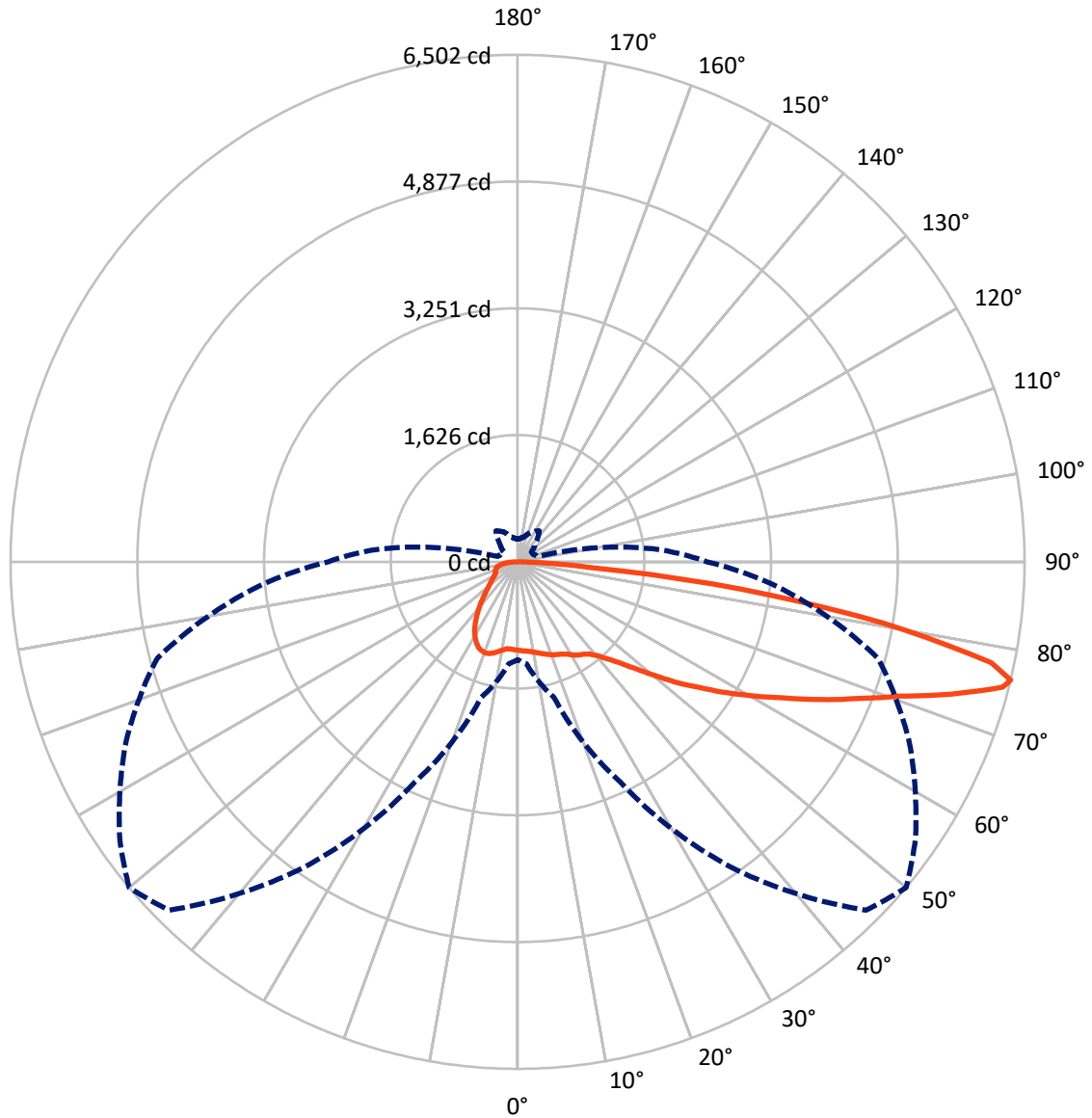
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2377.7 | 0.0 | 2377.7 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 8016.3 | 0.0 | 8016.3 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 10394.0 | 0.0 | 10394.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 110.0 | 1.1 |
| 10°-20° | 345.9 | 3.3 |
| 20°-30° | 584.2 | 5.6 |
| 30°-40° | 800.8 | 7.7 |
| 40°-50° | 1179.5 | 11.3 |
| 50°-60° | 1855.4 | 17.9 |
| 60°-70° | 2670.6 | 25.7 |
| 70°-80° | 2428.4 | 23.4 |
| 80°-90° | 419.2 | 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° | 10394.0 | 100.0 |
| 0°-180° | 10394.0 | 100.0 |

Coefficient of Utilization

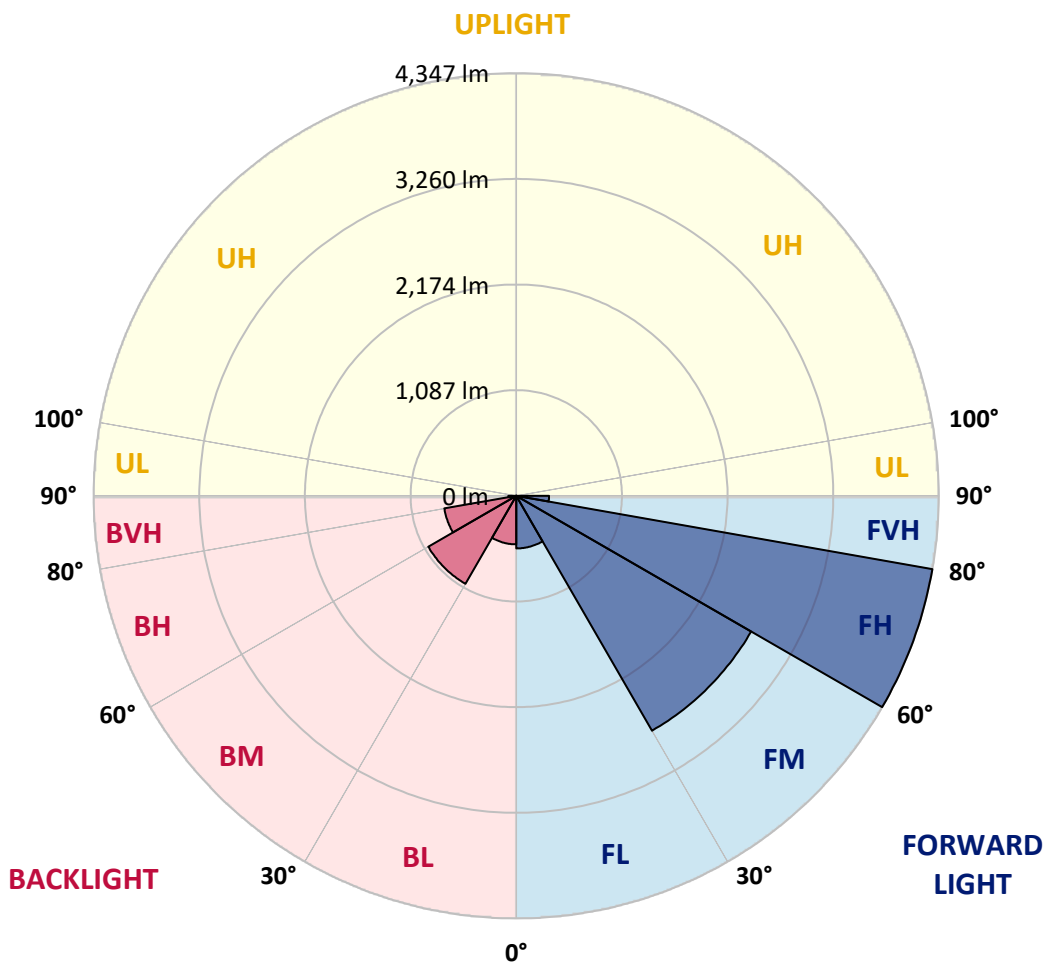


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 541.0 | 5.2 | | | |
| FM (30°-60°) | 2790.6 | 26.8 | | | |
| FH (60°-80°) | 4347.2 | 41.8 | | | G2/5000 |
| FVH (80°-90°) | 337.4 | 3.2 | | | G3/500 |
| BL (0°-30°) | 499.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 1045.0 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 751.8 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.8 | 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° | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 |
| 2.5° | 1158.4 | 1158.4 | 1160.9 | 1155.8 | 1155.8 | 1143.1 | 1143.1 | 1140.6 | 1135.5 | 1132.9 | 1127.8 |
| 5° | 1201.7 | 1201.7 | 1194.0 | 1181.3 | 1173.7 | 1158.4 | 1150.7 | 1145.7 | 1135.5 | 1122.7 | 1110.0 |
| 7.5° | 1247.5 | 1242.4 | 1237.3 | 1216.9 | 1201.7 | 1173.7 | 1160.9 | 1153.3 | 1132.9 | 1115.1 | 1107.5 |
| 10° | 1295.9 | 1288.2 | 1275.5 | 1250.0 | 1227.1 | 1194.0 | 1178.7 | 1168.6 | 1145.7 | 1130.4 | 1112.6 |
| 12.5° | 1323.9 | 1323.9 | 1308.6 | 1278.0 | 1247.5 | 1206.8 | 1199.1 | 1186.4 | 1163.5 | 1143.1 | 1125.3 |
| 15° | 1351.9 | 1354.4 | 1339.1 | 1303.5 | 1267.9 | 1237.3 | 1224.6 | 1216.9 | 1191.5 | 1160.9 | 1138.0 |
| 17.5° | 1379.9 | 1377.3 | 1362.1 | 1321.3 | 1283.1 | 1255.1 | 1247.5 | 1237.3 | 1211.8 | 1183.8 | 1160.9 |
| 20° | 1400.2 | 1395.1 | 1390.1 | 1339.1 | 1301.0 | 1283.1 | 1272.9 | 1265.3 | 1239.8 | 1209.3 | 1178.7 |
| 22.5° | 1405.3 | 1410.4 | 1405.3 | 1344.2 | 1313.7 | 1293.3 | 1290.8 | 1283.1 | 1262.8 | 1234.8 | 1204.2 |
| 25° | 1407.9 | 1410.4 | 1418.1 | 1359.5 | 1331.5 | 1316.2 | 1311.1 | 1306.0 | 1290.8 | 1267.9 | 1227.1 |
| 27.5° | 1420.6 | 1423.2 | 1423.2 | 1369.7 | 1354.4 | 1344.2 | 1339.1 | 1339.1 | 1331.5 | 1303.5 | 1262.8 |
| 30° | 1423.2 | 1425.7 | 1430.8 | 1395.1 | 1390.1 | 1382.4 | 1385.0 | 1382.4 | 1369.7 | 1339.1 | 1293.3 |
| 32.5° | 1441.0 | 1443.5 | 1456.3 | 1410.4 | 1415.5 | 1423.2 | 1425.7 | 1423.2 | 1397.7 | 1372.2 | 1334.0 |
| 35° | 1499.5 | 1497.0 | 1507.2 | 1448.6 | 1443.5 | 1446.1 | 1453.7 | 1451.2 | 1441.0 | 1418.1 | 1392.6 |
| 37.5° | 1687.9 | 1687.9 | 1659.9 | 1537.7 | 1499.5 | 1494.4 | 1499.5 | 1512.3 | 1514.8 | 1494.4 | 1474.1 |
| 40° | 2018.9 | 2001.1 | 1985.8 | 1721.0 | 1598.8 | 1568.3 | 1583.5 | 1591.2 | 1611.6 | 1611.6 | 1611.6 |
| 42.5° | 2360.0 | 2362.6 | 2357.5 | 2006.2 | 1777.0 | 1700.7 | 1703.2 | 1721.0 | 1764.3 | 1771.9 | 1794.9 |
| 45° | 2663.0 | 2680.8 | 2719.0 | 2337.1 | 2039.3 | 1868.7 | 1850.9 | 1868.7 | 1929.8 | 1980.7 | 2039.3 |
| 47.5° | 2899.8 | 2879.4 | 2963.4 | 2683.4 | 2339.7 | 2097.8 | 2052.0 | 2057.1 | 2141.1 | 2222.6 | 2314.2 |
| 50° | 3103.4 | 3108.5 | 3146.7 | 3037.3 | 2719.0 | 2357.5 | 2296.4 | 2286.2 | 2405.9 | 2492.4 | 2647.7 |
| 52.5° | 3332.6 | 3317.3 | 3373.3 | 3347.8 | 3088.2 | 2675.7 | 2579.0 | 2548.4 | 2678.3 | 2800.5 | 2968.5 |
| 55° | 3442.0 | 3457.3 | 3571.9 | 3635.5 | 3437.0 | 2960.9 | 2853.9 | 2864.1 | 3001.6 | 3131.4 | 3365.7 |
| 57.5° | 3635.5 | 3650.8 | 3783.2 | 3915.6 | 3747.6 | 3263.8 | 3169.6 | 3169.6 | 3324.9 | 3470.1 | 3831.6 |
| 60° | 3900.3 | 3902.9 | 4037.8 | 4266.9 | 4020.0 | 3556.6 | 3495.5 | 3493.0 | 3661.0 | 3829.0 | 4381.5 |
| 62.5° | 4017.4 | 4048.0 | 4249.1 | 4547.0 | 4376.4 | 3915.6 | 3844.3 | 3864.7 | 4014.9 | 4210.9 | 4995.0 |
| 65° | 3859.6 | 3925.8 | 4345.8 | 4735.4 | 4694.6 | 4289.8 | 4261.8 | 4289.8 | 4381.5 | 4592.8 | 5644.2 |
| 67.5° | 3337.7 | 3426.8 | 4167.6 | 4862.7 | 4949.2 | 4722.6 | 4681.9 | 4676.8 | 4735.4 | 4972.1 | 6054.1 |
| 70° | 3067.8 | 3121.3 | 3696.6 | 4911.0 | 5152.9 | 5160.5 | 5160.5 | 5127.4 | 5119.8 | 5292.9 | 6092.3 |
| 72.5° | 2525.5 | 2581.5 | 3118.7 | 4641.2 | 5346.4 | 5746.1 | 5804.6 | 5682.4 | 5494.0 | 5458.4 | 5453.3 |
| 75° | 1799.9 | 1840.7 | 2304.0 | 3650.8 | 5099.4 | 6308.7 | 6425.8 | 6189.1 | 5664.6 | 5096.9 | 3976.7 |
| 76° | 1255.1 | 1313.7 | 1799.9 | 3118.7 | 4788.8 | 6318.9 | 6502.2 | 6227.3 | 5550.0 | 4786.3 | 3276.6 |
| 77.5° | 636.5 | 656.8 | 1041.3 | 2095.3 | 4007.2 | 6028.7 | 6206.9 | 5898.8 | 5051.1 | 3867.2 | 2080.0 |
| 80° | 241.9 | 249.5 | 371.7 | 763.8 | 2199.7 | 4681.9 | 4750.6 | 4335.7 | 3342.8 | 1652.3 | 748.5 |
| 82.5° | 127.3 | 132.4 | 208.8 | 376.8 | 903.8 | 2573.9 | 2904.9 | 2418.6 | 1311.1 | 496.4 | 218.9 |
| 85° | 63.6 | 68.7 | 122.2 | 229.1 | 448.1 | 804.5 | 931.8 | 880.9 | 435.3 | 188.4 | 81.5 |
| 87.5° | 25.5 | 30.6 | 61.1 | 101.8 | 180.8 | 157.8 | 175.7 | 226.6 | 140.0 | 89.1 | 28.0 |
| 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° | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 | 1132.9 |
| 2.5° | 1127.8 | 1125.3 | 1127.8 | 1125.3 | 1127.8 | 1127.8 | 1130.4 | 1125.3 | 1125.3 | 1130.4 | 1122.7 |
| 5° | 1110.0 | 1107.5 | 1110.0 | 1115.1 | 1117.6 | 1122.7 | 1132.9 | 1130.4 | 1135.5 | 1140.6 | 1143.1 |
| 7.5° | 1102.4 | 1099.8 | 1107.5 | 1110.0 | 1117.6 | 1127.8 | 1143.1 | 1153.3 | 1158.4 | 1168.6 | 1163.5 |
| 10° | 1110.0 | 1110.0 | 1120.2 | 1127.8 | 1140.6 | 1153.3 | 1166.0 | 1176.2 | 1188.9 | 1196.6 | 1194.0 |
| 12.5° | 1122.7 | 1120.2 | 1138.0 | 1148.2 | 1166.0 | 1178.7 | 1188.9 | 1194.0 | 1204.2 | 1214.4 | 1211.8 |
| 15° | 1135.5 | 1138.0 | 1163.5 | 1183.8 | 1204.2 | 1209.3 | 1211.8 | 1206.8 | 1211.8 | 1216.9 | 1216.9 |
| 17.5° | 1160.9 | 1163.5 | 1191.5 | 1214.4 | 1232.2 | 1227.1 | 1214.4 | 1201.7 | 1201.7 | 1204.2 | 1206.8 |
| 20° | 1181.3 | 1186.4 | 1219.5 | 1239.8 | 1250.0 | 1229.7 | 1209.3 | 1194.0 | 1186.4 | 1188.9 | 1186.4 |
| 22.5° | 1204.2 | 1214.4 | 1247.5 | 1257.7 | 1242.4 | 1216.9 | 1191.5 | 1171.1 | 1171.1 | 1173.7 | 1173.7 |
| 25° | 1232.2 | 1237.3 | 1260.2 | 1255.1 | 1227.1 | 1188.9 | 1168.6 | 1160.9 | 1158.4 | 1160.9 | 1163.5 |
| 27.5° | 1257.7 | 1260.2 | 1272.9 | 1237.3 | 1183.8 | 1143.1 | 1135.5 | 1138.0 | 1140.6 | 1143.1 | 1145.7 |
| 30° | 1290.8 | 1295.9 | 1283.1 | 1211.8 | 1130.4 | 1084.6 | 1084.6 | 1099.8 | 1104.9 | 1112.6 | 1110.0 |
| 32.5° | 1331.5 | 1336.6 | 1298.4 | 1178.7 | 1061.6 | 1015.8 | 1018.4 | 1041.3 | 1056.5 | 1061.6 | 1064.2 |
| 35° | 1400.2 | 1390.1 | 1308.6 | 1132.9 | 987.8 | 931.8 | 934.3 | 962.3 | 982.7 | 990.4 | 985.3 |
| 37.5° | 1484.3 | 1481.7 | 1323.9 | 1074.4 | 896.2 | 845.2 | 847.8 | 860.5 | 880.9 | 883.4 | 886.0 |
| 40° | 1624.3 | 1603.9 | 1349.3 | 998.0 | 804.5 | 756.1 | 751.0 | 758.7 | 756.1 | 761.2 | 763.8 |
| 42.5° | 1825.4 | 1771.9 | 1382.4 | 911.4 | 723.0 | 672.1 | 667.0 | 654.3 | 639.0 | 623.7 | 616.1 |
| 45° | 2062.2 | 1978.2 | 1423.2 | 822.3 | 639.0 | 593.2 | 580.5 | 565.2 | 534.6 | 501.5 | 491.4 |
| 47.5° | 2367.7 | 2207.3 | 1469.0 | 733.2 | 560.1 | 524.5 | 514.3 | 491.4 | 455.7 | 417.5 | 409.9 |
| 50° | 2680.8 | 2477.2 | 1514.8 | 659.4 | 496.4 | 476.1 | 465.9 | 443.0 | 397.2 | 361.5 | 353.9 |
| 52.5° | 3044.9 | 2744.5 | 1563.2 | 593.2 | 440.4 | 440.4 | 432.8 | 397.2 | 353.9 | 320.8 | 315.7 |
| 55° | 3465.0 | 3019.4 | 1639.6 | 529.5 | 399.7 | 409.9 | 399.7 | 364.1 | 323.3 | 300.4 | 297.9 |
| 57.5° | 3966.5 | 3368.2 | 1736.3 | 460.8 | 364.1 | 371.7 | 371.7 | 346.2 | 318.2 | 303.0 | 300.4 |
| 60° | 4470.6 | 3722.1 | 1797.4 | 409.9 | 336.1 | 343.7 | 359.0 | 346.2 | 328.4 | 320.8 | 318.2 |
| 62.5° | 4954.3 | 4083.6 | 1693.0 | 366.6 | 308.1 | 331.0 | 369.2 | 371.7 | 353.9 | 356.4 | 356.4 |
| 65° | 5315.8 | 4358.6 | 1369.7 | 328.4 | 290.2 | 338.6 | 399.7 | 402.3 | 371.7 | 364.1 | 361.5 |
| 67.5° | 5440.6 | 4434.9 | 921.6 | 303.0 | 280.0 | 343.7 | 435.3 | 425.2 | 371.7 | 356.4 | 348.8 |
| 70° | 5203.8 | 4154.9 | 598.3 | 280.0 | 264.8 | 338.6 | 463.4 | 437.9 | 369.2 | 346.2 | 336.1 |
| 72.5° | 4363.7 | 3543.9 | 399.7 | 259.7 | 249.5 | 333.5 | 481.2 | 437.9 | 361.5 | 328.4 | 318.2 |
| 75° | 3029.6 | 2421.1 | 297.9 | 234.2 | 226.6 | 325.9 | 486.3 | 430.3 | 343.7 | 308.1 | 300.4 |
| 76° | 2431.3 | 1815.2 | 269.9 | 224.0 | 216.4 | 320.8 | 483.7 | 422.6 | 331.0 | 297.9 | 290.2 |
| 77.5° | 1535.2 | 1043.8 | 226.6 | 206.2 | 201.1 | 310.6 | 473.5 | 404.8 | 313.1 | 280.0 | 272.4 |
| 80° | 537.2 | 381.9 | 173.1 | 168.0 | 170.6 | 287.7 | 445.5 | 369.2 | 277.5 | 247.0 | 236.8 |
| 82.5° | 213.9 | 175.7 | 129.8 | 129.8 | 134.9 | 247.0 | 402.3 | 325.9 | 241.9 | 203.7 | 188.4 |
| 85° | 84.0 | 76.4 | 91.7 | 91.7 | 96.7 | 201.1 | 336.1 | 254.6 | 165.5 | 127.3 | 122.2 |
| 87.5° | 25.5 | 35.6 | 40.7 | 43.3 | 45.8 | 101.8 | 190.9 | 112.0 | 73.8 | 53.5 | 43.3 |
| 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)