

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: P594255

Luminaire Tested: **ISC-PA1D-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594255
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-827-U-T2R
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 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: 6420 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

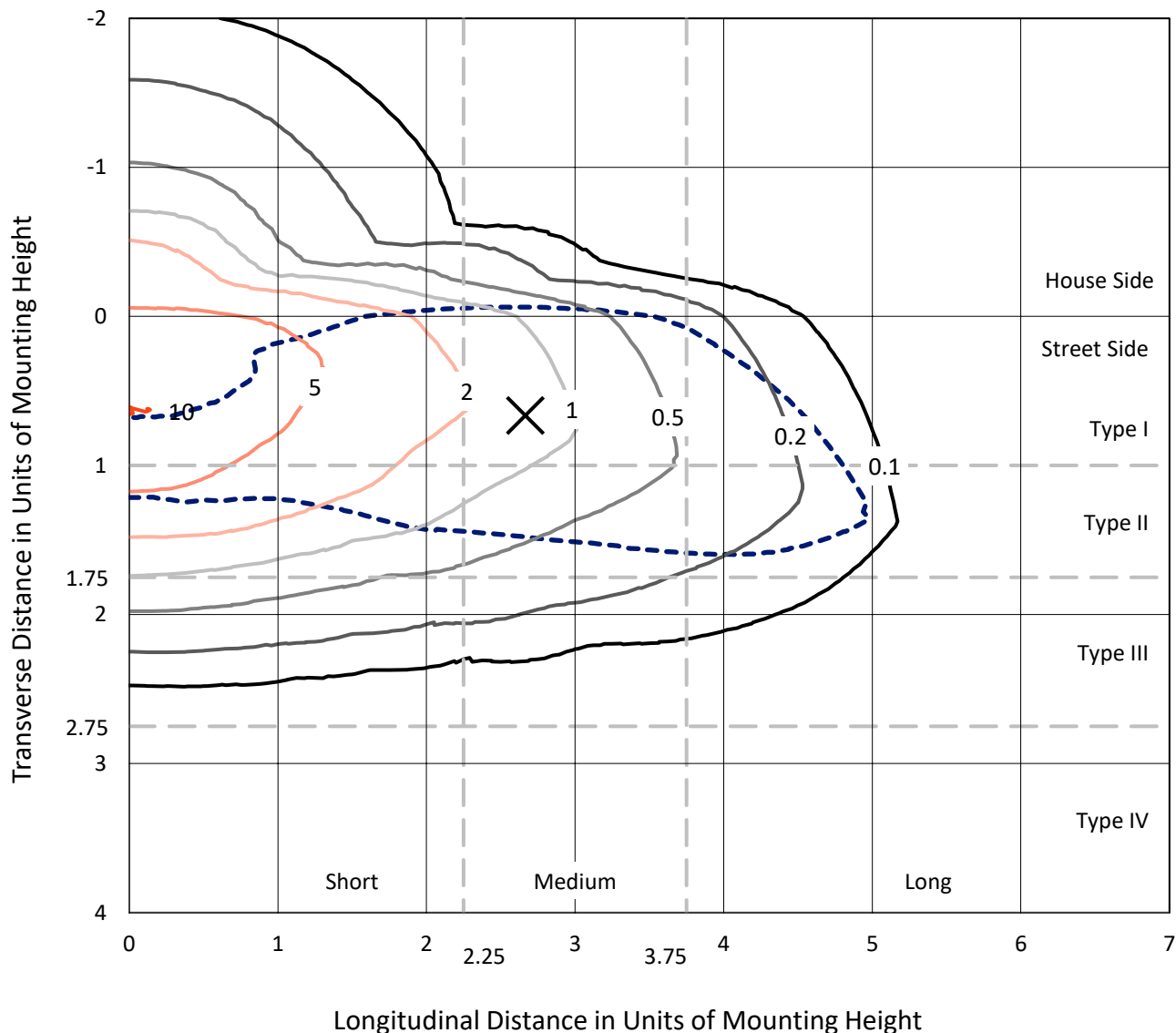
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

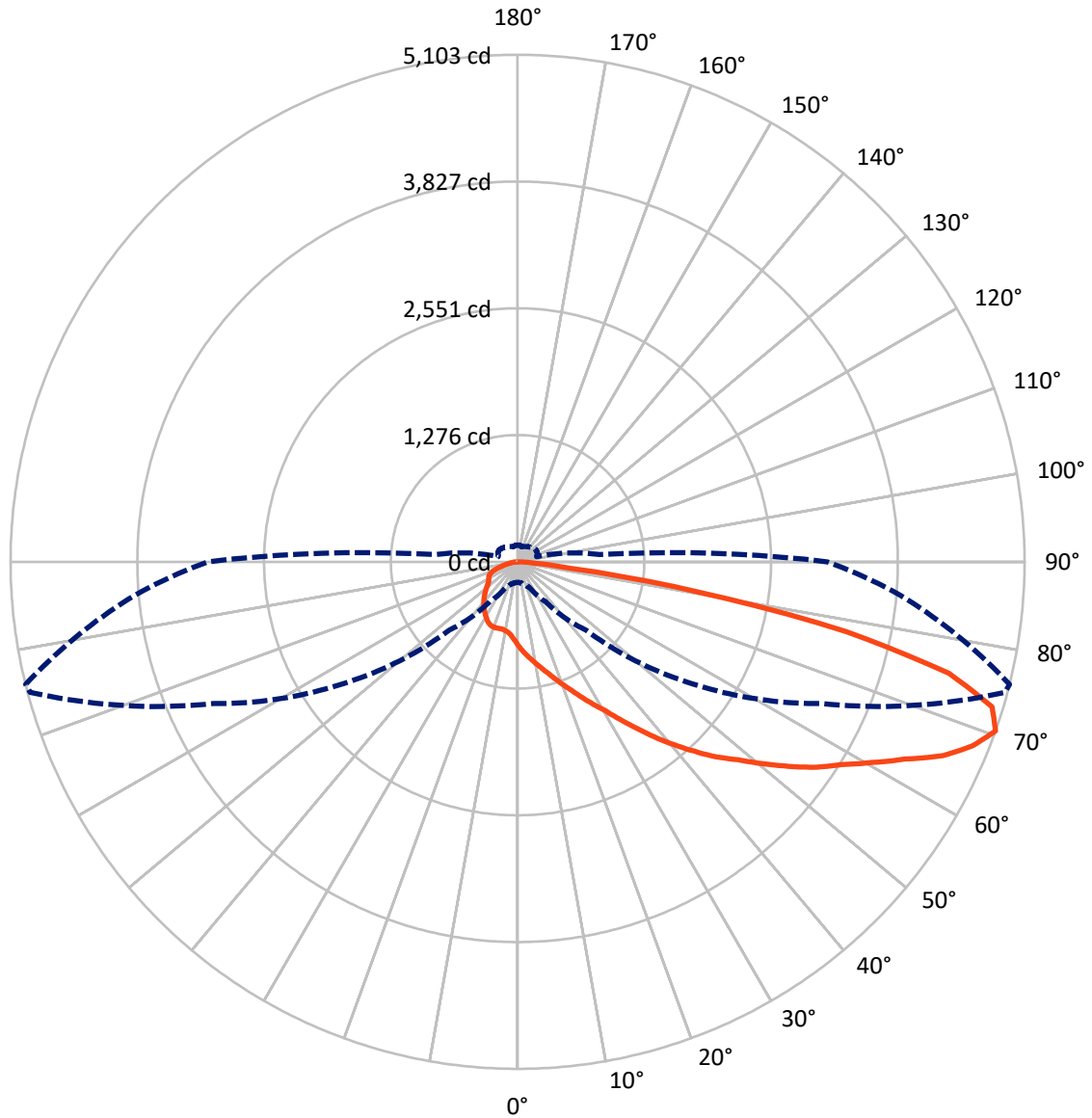
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.1 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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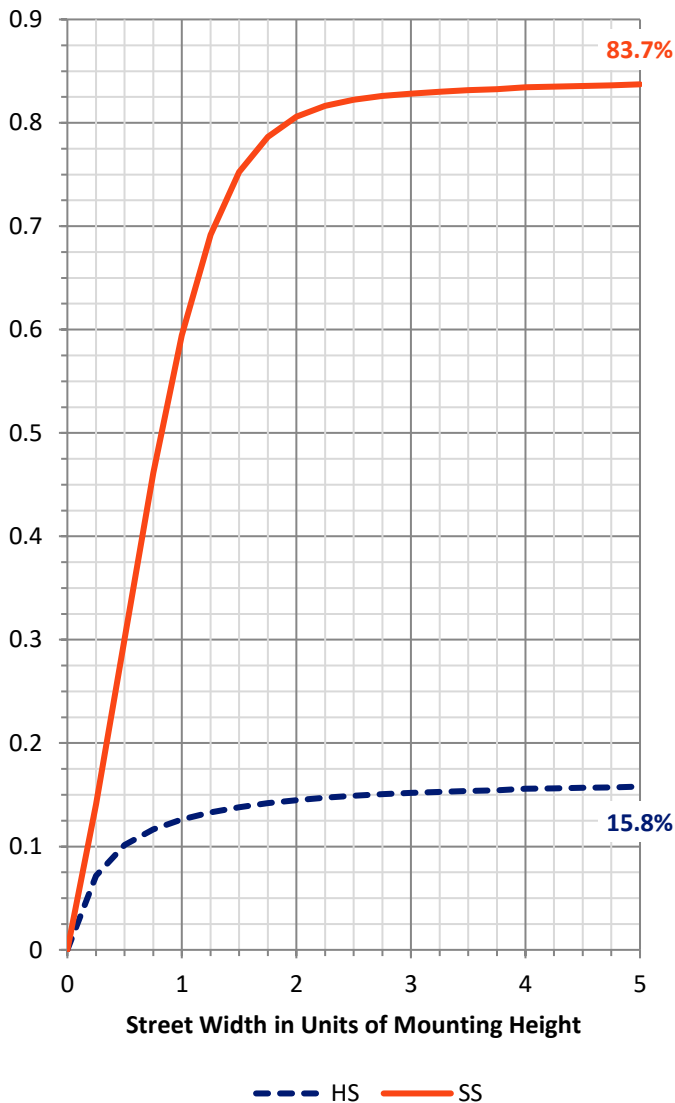
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1029.7 | 0.0 | 1029.7 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 5390.3 | 0.0 | 5390.3 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 6420.0 | 0.0 | 6420.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.1 | 1.3 |
| 10°-20° | 270.9 | 4.2 |
| 20°-30° | 499.2 | 7.8 |
| 30°-40° | 836.3 | 13.0 |
| 40°-50° | 1188.4 | 18.5 |
| 50°-60° | 1372.1 | 21.4 |
| 60°-70° | 1261.3 | 19.6 |
| 70°-80° | 795.3 | 12.4 |
| 80°-90° | 114.4 | 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° | 6420.0 | 100.0 |
| 0°-180° | 6420.0 | 100.0 |

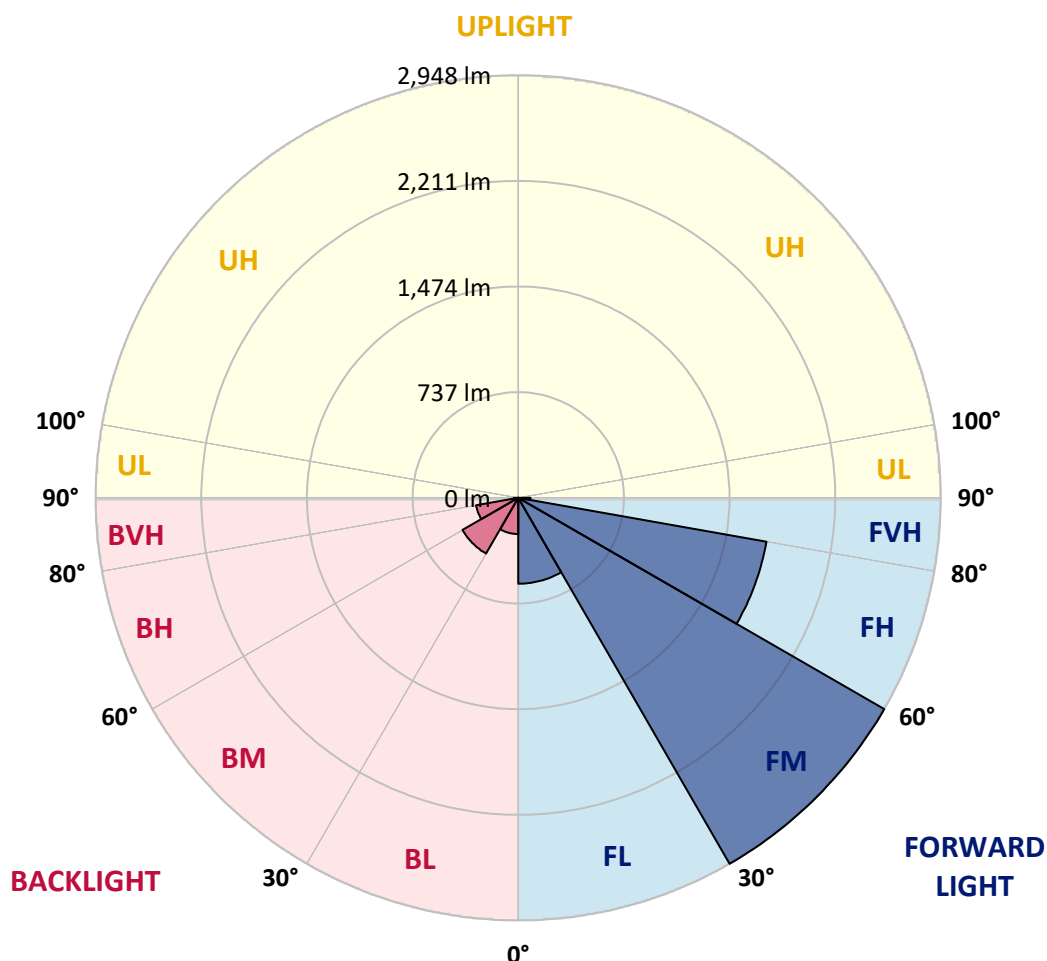


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 599.4 | 9.3 | | | |
| FM (30°-60°) | 2947.9 | 45.9 | | | |
| FH (60°-80°) | 1758.2 | 27.4 | | | G1/1800 |
| FVH (80°-90°) | 84.8 | 1.3 | | | G1/100 |
| BL (0°-30°) | 252.8 | 3.9 | B1/500 | | |
| BM (30°-60°) | 448.9 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 298.4 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.6 | 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-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 1013.7 | 1012.2 | 1007.6 | 999.8 | 993.7 | 975.1 | 950.4 | 928.7 | 896.3 | 893.2 | 860.8 |
| 5° | 1104.9 | 1098.7 | 1098.7 | 1091.0 | 1083.3 | 1063.2 | 1032.3 | 993.7 | 947.3 | 944.2 | 882.4 |
| 7.5° | 1148.2 | 1149.7 | 1146.6 | 1140.5 | 1142.0 | 1125.0 | 1097.2 | 1058.6 | 995.2 | 992.1 | 911.7 |
| 10° | 1210.0 | 1208.5 | 1202.3 | 1197.6 | 1196.1 | 1180.6 | 1155.9 | 1120.4 | 1053.9 | 1047.7 | 945.7 |
| 12.5° | 1270.3 | 1265.6 | 1267.2 | 1265.6 | 1262.5 | 1247.1 | 1223.9 | 1188.4 | 1106.5 | 1103.4 | 987.5 |
| 15° | 1304.3 | 1302.7 | 1313.5 | 1316.6 | 1329.0 | 1315.1 | 1295.0 | 1254.8 | 1180.6 | 1168.3 | 1036.9 |
| 17.5° | 1325.9 | 1324.4 | 1335.2 | 1359.9 | 1383.1 | 1383.1 | 1376.9 | 1333.6 | 1251.7 | 1242.5 | 1092.6 |
| 20° | 1363.0 | 1369.2 | 1387.7 | 1407.8 | 1441.8 | 1448.0 | 1446.4 | 1427.9 | 1333.6 | 1324.4 | 1154.4 |
| 22.5° | 1437.2 | 1434.1 | 1449.5 | 1480.4 | 1511.3 | 1520.6 | 1522.2 | 1522.2 | 1427.9 | 1410.9 | 1217.7 |
| 25° | 1596.3 | 1588.6 | 1576.2 | 1573.2 | 1610.2 | 1608.7 | 1604.1 | 1614.9 | 1526.8 | 1514.4 | 1290.4 |
| 27.5° | 1899.2 | 1882.2 | 1834.3 | 1738.5 | 1716.9 | 1724.6 | 1701.4 | 1703.0 | 1639.6 | 1624.1 | 1352.2 |
| 30° | 2186.7 | 2178.9 | 2134.1 | 2018.2 | 1896.1 | 1852.9 | 1812.7 | 1795.7 | 1764.8 | 1738.5 | 1418.6 |
| 32.5° | 2446.3 | 2447.8 | 2393.7 | 2267.0 | 2141.8 | 2005.8 | 1936.3 | 1900.8 | 1913.1 | 1889.9 | 1509.8 |
| 35° | 2622.4 | 2608.5 | 2574.5 | 2489.5 | 2353.5 | 2223.7 | 2090.8 | 2012.0 | 2078.5 | 2052.2 | 1601.0 |
| 37.5° | 2726.0 | 2715.2 | 2687.3 | 2627.1 | 2559.1 | 2433.9 | 2265.5 | 2144.9 | 2274.7 | 2236.1 | 1716.9 |
| 40° | 2778.5 | 2763.1 | 2735.2 | 2710.5 | 2678.1 | 2610.1 | 2461.7 | 2296.4 | 2454.0 | 2420.0 | 1831.2 |
| 42.5° | 2784.7 | 2773.9 | 2758.4 | 2746.1 | 2756.9 | 2747.6 | 2653.3 | 2472.5 | 2642.5 | 2605.4 | 1962.6 |
| 45° | 2780.1 | 2787.8 | 2769.2 | 2747.6 | 2769.2 | 2848.1 | 2848.1 | 2648.7 | 2829.5 | 2801.7 | 2087.7 |
| 47.5° | 2783.2 | 2775.4 | 2769.2 | 2763.1 | 2766.2 | 2874.3 | 2982.5 | 2814.1 | 3008.8 | 2976.3 | 2234.6 |
| 50° | 2654.9 | 2665.7 | 2718.2 | 2741.4 | 2755.3 | 2880.5 | 3090.7 | 2993.3 | 3231.3 | 3191.1 | 2398.4 |
| 52.5° | 2246.9 | 2253.1 | 2492.6 | 2665.7 | 2721.3 | 2855.8 | 3166.4 | 3192.7 | 3450.7 | 3419.8 | 2574.5 |
| 55° | 1730.8 | 1763.2 | 1990.4 | 2413.8 | 2644.1 | 2814.1 | 3189.6 | 3322.5 | 3674.8 | 3650.1 | 2752.2 |
| 57.5° | 1424.8 | 1429.4 | 1560.8 | 1939.4 | 2399.9 | 2775.4 | 3212.8 | 3441.5 | 3875.7 | 3847.9 | 2937.7 |
| 60° | 1182.2 | 1171.4 | 1251.7 | 1495.9 | 1993.5 | 2620.9 | 3217.4 | 3535.7 | 4109.0 | 4099.8 | 3129.3 |
| 62.5° | 868.5 | 880.8 | 958.1 | 1165.2 | 1559.2 | 2307.2 | 3194.2 | 3616.1 | 4387.2 | 4374.8 | 3342.6 |
| 65° | 533.1 | 548.6 | 642.9 | 832.9 | 1180.6 | 1831.2 | 3042.8 | 3657.8 | 4679.3 | 4707.1 | 3572.8 |
| 67.5° | 282.8 | 293.6 | 349.2 | 503.8 | 809.8 | 1395.4 | 2678.1 | 3605.3 | 4926.5 | 4938.9 | 3793.8 |
| 70° | 207.1 | 208.6 | 227.2 | 284.3 | 488.3 | 970.5 | 2132.6 | 3376.6 | 5078.0 | 5102.7 | 3866.4 |
| 72.5° | 180.8 | 182.3 | 190.1 | 204.0 | 265.8 | 591.9 | 1528.3 | 2977.9 | 5014.6 | 4993.0 | 3744.3 |
| 75° | 163.8 | 163.8 | 170.0 | 174.6 | 194.7 | 327.6 | 936.5 | 2437.0 | 4530.9 | 4483.0 | 3192.7 |
| 77.5° | 140.6 | 140.6 | 146.8 | 153.0 | 168.4 | 211.7 | 489.9 | 1806.5 | 3464.6 | 3382.7 | 2183.6 |
| 80° | 112.8 | 112.8 | 120.5 | 128.3 | 148.4 | 159.2 | 239.5 | 1208.5 | 1981.1 | 1860.6 | 993.7 |
| 82.5° | 77.3 | 83.4 | 97.4 | 106.6 | 123.6 | 112.8 | 140.6 | 522.3 | 624.3 | 540.9 | 224.1 |
| 85° | 46.4 | 49.5 | 69.5 | 80.4 | 92.7 | 60.3 | 86.5 | 200.9 | 187.0 | 163.8 | 51.0 |
| 87.5° | 4.6 | 7.7 | 27.8 | 32.5 | 32.5 | 17.0 | 37.1 | 47.9 | 54.1 | 55.6 | 12.4 |
| 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° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 842.2 | 823.7 | 788.1 | 755.7 | 723.2 | 701.6 | 679.9 | 672.2 | 661.4 | 653.7 | 659.9 |
| 5° | 849.9 | 811.3 | 743.3 | 686.1 | 647.5 | 618.1 | 604.2 | 596.5 | 590.3 | 588.8 | 587.2 |
| 7.5° | 859.2 | 802.0 | 710.9 | 647.5 | 610.4 | 596.5 | 593.4 | 593.4 | 593.4 | 595.0 | 596.5 |
| 10° | 879.3 | 805.1 | 693.9 | 625.9 | 605.8 | 602.7 | 604.2 | 610.4 | 610.4 | 612.0 | 612.0 |
| 12.5° | 902.5 | 812.8 | 681.5 | 622.8 | 610.4 | 612.0 | 613.5 | 616.6 | 616.6 | 621.2 | 619.7 |
| 15° | 936.5 | 828.3 | 679.9 | 625.9 | 615.0 | 612.0 | 612.0 | 610.4 | 610.4 | 610.4 | 613.5 |
| 17.5° | 979.7 | 849.9 | 681.5 | 625.9 | 610.4 | 604.2 | 599.6 | 595.0 | 588.8 | 591.9 | 588.8 |
| 20° | 1023.0 | 876.2 | 681.5 | 618.1 | 598.0 | 582.6 | 568.7 | 561.0 | 553.2 | 551.7 | 553.2 |
| 22.5° | 1077.1 | 907.1 | 673.8 | 601.1 | 571.8 | 550.1 | 530.1 | 519.2 | 506.9 | 502.2 | 499.1 |
| 25° | 1123.5 | 931.8 | 658.3 | 576.4 | 542.4 | 511.5 | 485.2 | 466.7 | 451.2 | 448.1 | 448.1 |
| 27.5° | 1171.4 | 953.5 | 635.1 | 545.5 | 500.7 | 466.7 | 437.3 | 414.2 | 398.7 | 397.2 | 395.6 |
| 30° | 1216.2 | 972.0 | 604.2 | 511.5 | 463.6 | 423.4 | 389.4 | 369.3 | 355.4 | 347.7 | 343.1 |
| 32.5° | 1274.9 | 996.7 | 574.9 | 477.5 | 420.3 | 380.2 | 349.2 | 332.2 | 313.7 | 301.3 | 296.7 |
| 35° | 1349.1 | 1026.1 | 542.4 | 440.4 | 381.7 | 341.5 | 323.0 | 298.2 | 275.1 | 261.2 | 256.5 |
| 37.5° | 1432.5 | 1067.8 | 508.4 | 401.8 | 343.1 | 313.7 | 302.9 | 264.3 | 239.5 | 234.9 | 233.3 |
| 40° | 1536.1 | 1108.0 | 469.8 | 361.6 | 306.0 | 298.2 | 279.7 | 239.5 | 227.2 | 225.6 | 224.1 |
| 42.5° | 1639.6 | 1151.3 | 432.7 | 321.4 | 276.6 | 279.7 | 253.4 | 233.3 | 222.5 | 219.4 | 217.9 |
| 45° | 1760.1 | 1194.5 | 395.6 | 285.9 | 253.4 | 253.4 | 239.5 | 227.2 | 217.9 | 214.8 | 214.8 |
| 47.5° | 1886.9 | 1237.8 | 355.4 | 255.0 | 236.4 | 227.2 | 228.7 | 219.4 | 213.3 | 210.2 | 208.6 |
| 50° | 2046.0 | 1279.5 | 318.3 | 233.3 | 225.6 | 213.3 | 217.9 | 211.7 | 208.6 | 205.5 | 204.0 |
| 52.5° | 2195.9 | 1298.1 | 284.3 | 221.0 | 219.4 | 207.1 | 208.6 | 205.5 | 204.0 | 199.3 | 197.8 |
| 55° | 2342.7 | 1293.4 | 258.1 | 214.8 | 211.7 | 205.5 | 202.4 | 200.9 | 199.3 | 194.7 | 193.2 |
| 57.5° | 2506.5 | 1287.3 | 241.1 | 213.3 | 207.1 | 200.9 | 200.9 | 196.3 | 190.1 | 190.1 | 190.1 |
| 60° | 2676.5 | 1267.2 | 233.3 | 213.3 | 205.5 | 200.9 | 197.8 | 193.2 | 187.0 | 188.5 | 187.0 |
| 62.5° | 2868.1 | 1228.5 | 228.7 | 217.9 | 207.1 | 199.3 | 196.3 | 190.1 | 182.3 | 183.9 | 182.3 |
| 65° | 3036.6 | 1149.7 | 225.6 | 222.5 | 210.2 | 200.9 | 193.2 | 185.4 | 176.2 | 177.7 | 176.2 |
| 67.5° | 3150.9 | 1016.8 | 216.3 | 225.6 | 214.8 | 199.3 | 190.1 | 179.3 | 166.9 | 173.1 | 171.5 |
| 70° | 3118.5 | 826.8 | 199.3 | 219.4 | 219.4 | 200.9 | 185.4 | 171.5 | 157.6 | 170.0 | 165.4 |
| 72.5° | 2866.6 | 621.2 | 166.9 | 197.8 | 216.3 | 200.9 | 176.2 | 159.2 | 146.8 | 154.5 | 145.3 |
| 75° | 2353.5 | 421.9 | 132.9 | 157.6 | 202.4 | 202.4 | 168.4 | 146.8 | 131.4 | 126.7 | 123.6 |
| 77.5° | 1468.1 | 262.7 | 103.5 | 115.9 | 170.0 | 200.9 | 160.7 | 131.4 | 109.7 | 106.6 | 103.5 |
| 80° | 581.0 | 140.6 | 81.9 | 83.4 | 125.2 | 183.9 | 149.9 | 111.3 | 88.1 | 85.0 | 78.8 |
| 82.5° | 132.9 | 71.1 | 57.2 | 55.6 | 77.3 | 149.9 | 136.0 | 88.1 | 68.0 | 68.0 | 57.2 |
| 85° | 40.2 | 37.1 | 37.1 | 35.5 | 38.6 | 77.3 | 105.1 | 60.3 | 46.4 | 32.5 | 27.8 |
| 87.5° | 10.8 | 15.5 | 13.9 | 12.4 | 12.4 | 10.8 | 34.0 | 15.5 | 9.3 | 4.6 | 3.1 |
| 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)