

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: P594196

Luminaire Tested: **ISC-PA1D-722-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1D-722-U-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6266 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

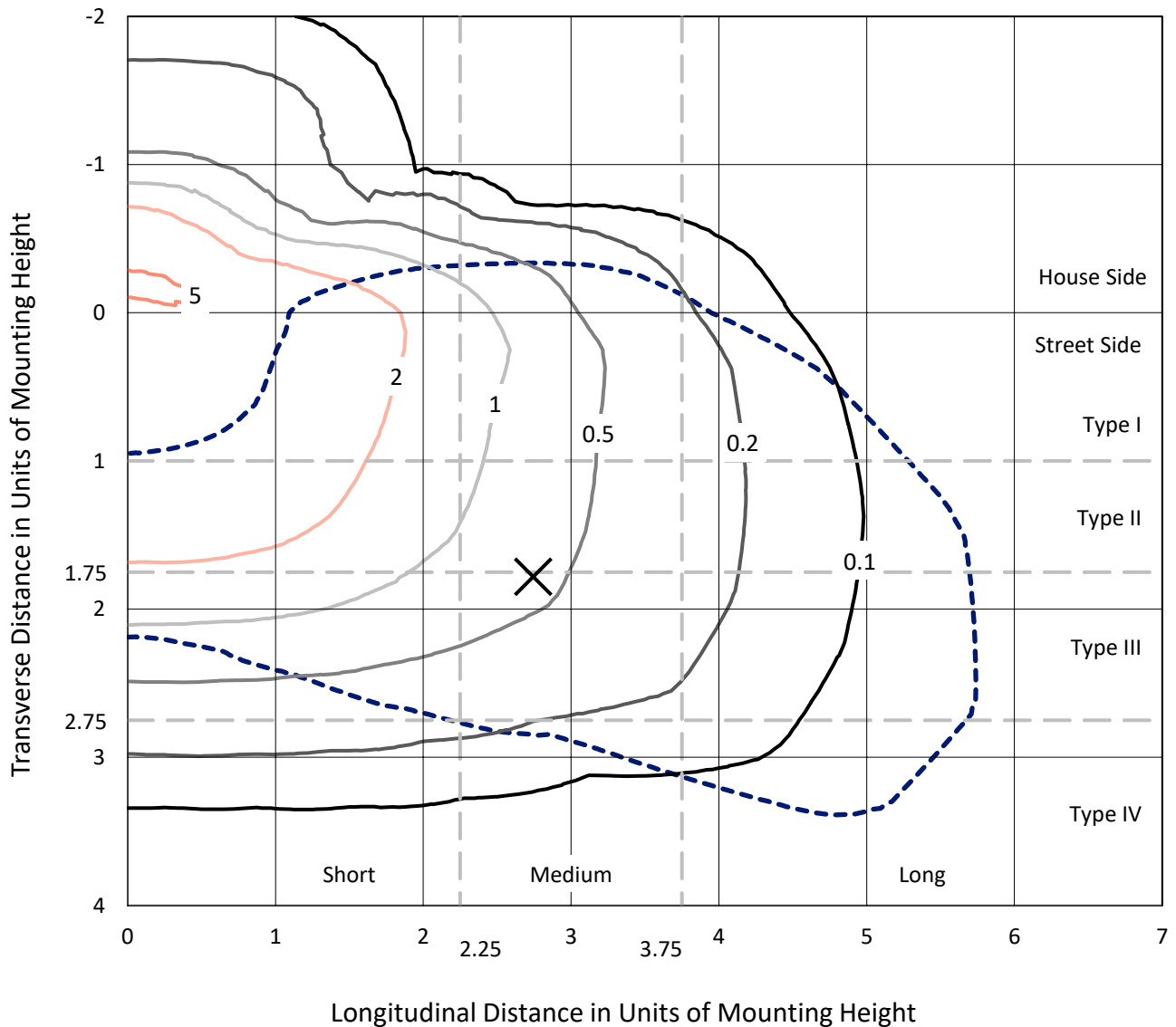
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

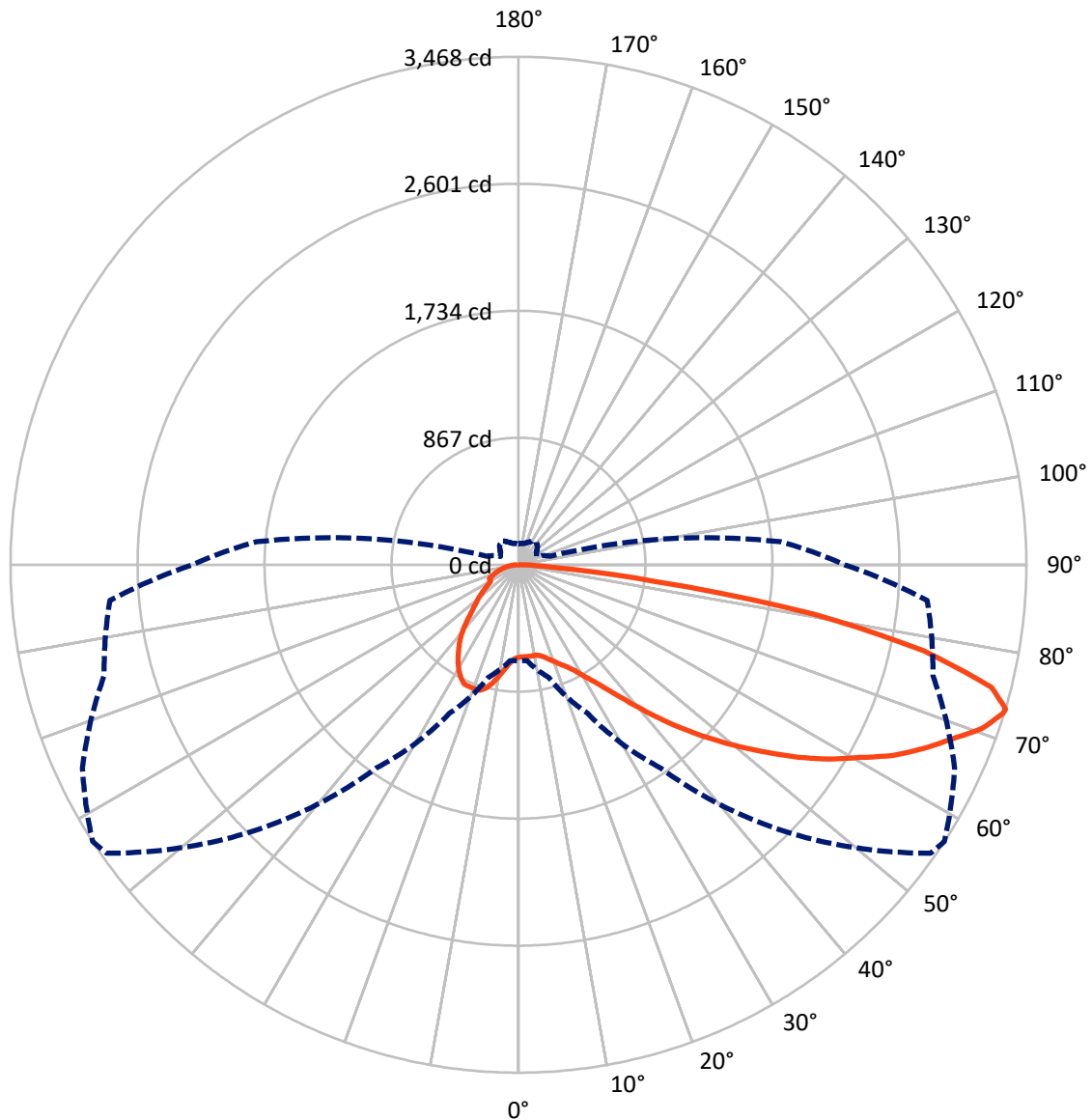
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1494.9 | 0.0 | 1494.9 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 4771.1 | 0.0 | 4771.1 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 6266.0 | 0.0 | 6266.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.0 | 1.0 |
| 10°-20° | 207.3 | 3.3 |
| 20°-30° | 382.7 | 6.1 |
| 30°-40° | 590.9 | 9.4 |
| 40°-50° | 889.5 | 14.2 |
| 50°-60° | 1301.8 | 20.8 |
| 60°-70° | 1537.3 | 24.5 |
| 70°-80° | 1100.6 | 17.6 |
| 80°-90° | 192.9 | 3.1 |
| 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° | 6266.0 | 100.0 |
| 0°-180° | 6266.0 | 100.0 |

Coefficient of Utilization

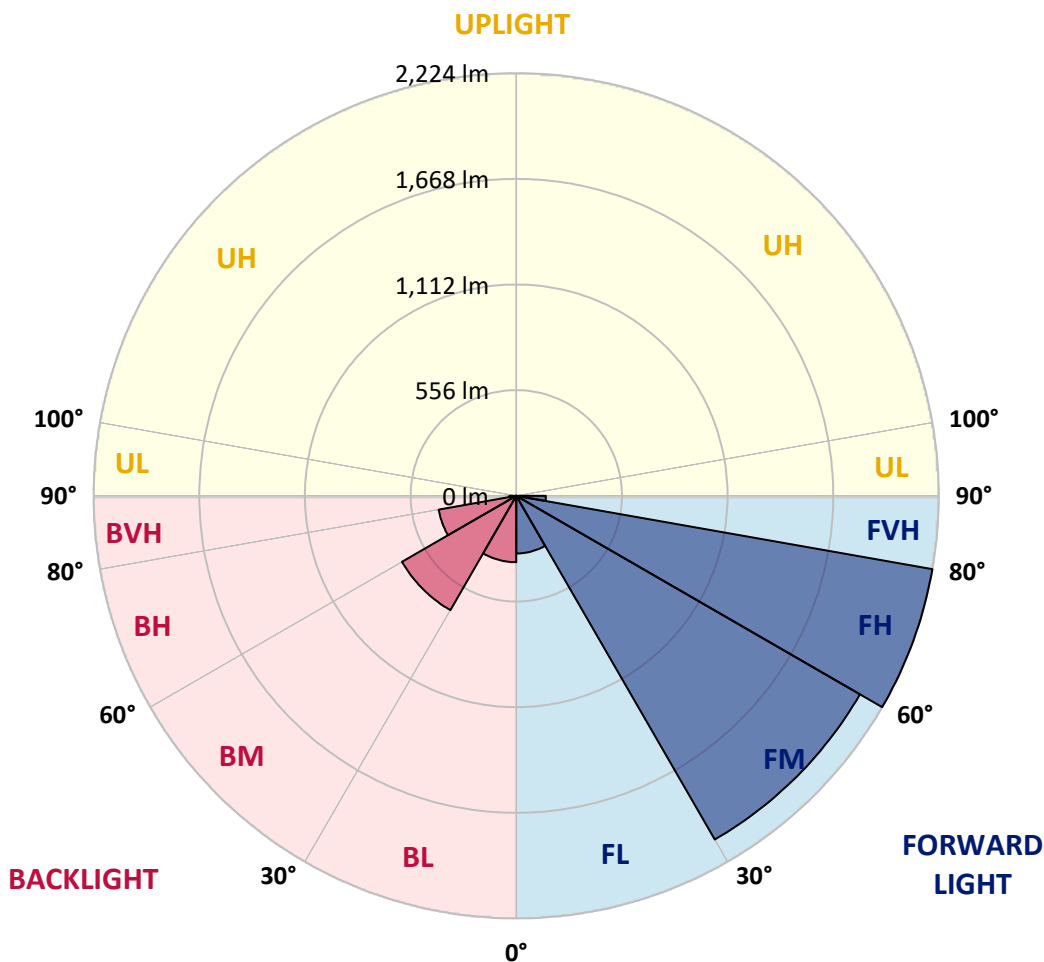


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 303.6 | 4.8 | | | |
| FM (30°-60°) | 2088.0 | 33.3 | | | |
| FH (60°-80°) | 2223.5 | 35.5 | | | G2/5000 |
| FVH (80°-90°) | 156.0 | 2.5 | | | G2/225 |
| BL (0°-30°) | 349.4 | 5.6 | B1/500 | | |
| BM (30°-60°) | 694.2 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 414.5 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.8 | 0.6 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 |
| 2.5° | 623.6 | 626.7 | 625.2 | 626.7 | 631.3 | 628.2 | 628.2 | 629.8 | 631.3 | 629.8 | 632.8 |
| 5° | 597.5 | 599.0 | 602.1 | 608.3 | 619.0 | 622.1 | 629.8 | 629.8 | 632.8 | 635.9 | 640.5 |
| 7.5° | 554.5 | 557.6 | 563.7 | 569.9 | 588.3 | 606.7 | 626.7 | 629.8 | 640.5 | 648.2 | 651.3 |
| 10° | 546.8 | 549.9 | 551.4 | 560.6 | 579.1 | 597.5 | 622.1 | 628.2 | 648.2 | 660.5 | 674.3 |
| 12.5° | 539.1 | 542.2 | 546.8 | 559.1 | 582.1 | 602.1 | 628.2 | 634.4 | 659.0 | 683.5 | 700.4 |
| 15° | 545.3 | 546.8 | 551.4 | 563.7 | 586.8 | 614.4 | 648.2 | 652.8 | 680.5 | 711.2 | 737.3 |
| 17.5° | 560.6 | 562.2 | 560.6 | 571.4 | 592.9 | 625.2 | 671.2 | 678.9 | 712.7 | 743.4 | 769.5 |
| 20° | 596.0 | 597.5 | 591.4 | 591.4 | 606.7 | 639.0 | 695.8 | 706.6 | 748.0 | 781.8 | 807.9 |
| 22.5° | 672.8 | 669.7 | 654.3 | 634.4 | 634.4 | 660.5 | 723.5 | 738.8 | 791.0 | 818.7 | 841.7 |
| 25° | 781.8 | 781.8 | 757.3 | 720.4 | 695.8 | 692.7 | 755.7 | 772.6 | 834.1 | 867.8 | 881.7 |
| 27.5° | 913.9 | 915.5 | 875.5 | 826.4 | 778.8 | 755.7 | 801.8 | 818.7 | 887.8 | 923.1 | 927.8 |
| 30° | 1030.7 | 1032.2 | 992.3 | 946.2 | 887.8 | 837.1 | 863.2 | 881.7 | 961.5 | 989.2 | 973.8 |
| 32.5° | 1147.4 | 1148.9 | 1121.3 | 1058.3 | 996.9 | 933.9 | 941.6 | 952.3 | 1033.7 | 1059.9 | 1035.3 |
| 35° | 1248.8 | 1253.4 | 1225.7 | 1178.1 | 1113.6 | 1056.8 | 1043.0 | 1044.5 | 1118.2 | 1135.1 | 1102.9 |
| 37.5° | 1351.7 | 1351.7 | 1334.8 | 1290.3 | 1235.0 | 1172.0 | 1153.5 | 1158.2 | 1224.2 | 1241.1 | 1195.0 |
| 40° | 1482.3 | 1488.4 | 1479.2 | 1423.9 | 1360.9 | 1308.7 | 1290.3 | 1296.4 | 1368.6 | 1359.4 | 1310.2 |
| 42.5° | 1640.5 | 1654.3 | 1638.9 | 1579.0 | 1511.4 | 1453.1 | 1453.1 | 1453.1 | 1514.5 | 1516.0 | 1442.3 |
| 45° | 1843.2 | 1843.2 | 1827.9 | 1775.6 | 1686.5 | 1628.2 | 1608.2 | 1612.8 | 1666.6 | 1672.7 | 1586.7 |
| 47.5° | 2012.2 | 2027.5 | 2010.6 | 1972.2 | 1901.6 | 1846.3 | 1783.3 | 1775.6 | 1820.2 | 1820.2 | 1746.4 |
| 50° | 2148.9 | 2176.5 | 2162.7 | 2179.6 | 2128.9 | 2101.3 | 1972.2 | 1950.7 | 1966.1 | 1981.5 | 1900.1 |
| 52.5° | 2262.6 | 2284.1 | 2279.4 | 2328.6 | 2353.2 | 2368.5 | 2164.2 | 2130.5 | 2142.7 | 2141.2 | 2067.5 |
| 55° | 2270.2 | 2277.9 | 2347.0 | 2457.6 | 2554.4 | 2626.6 | 2357.8 | 2320.9 | 2308.6 | 2302.5 | 2245.7 |
| 57.5° | 2225.7 | 2230.3 | 2368.5 | 2499.1 | 2709.5 | 2792.5 | 2540.6 | 2503.7 | 2486.8 | 2465.3 | 2442.3 |
| 60° | 2118.2 | 2141.2 | 2322.5 | 2523.7 | 2801.7 | 2921.5 | 2711.1 | 2672.7 | 2660.4 | 2614.3 | 2666.5 |
| 62.5° | 1981.5 | 1992.2 | 2173.5 | 2473.0 | 2814.0 | 2976.8 | 2890.8 | 2867.7 | 2829.3 | 2763.3 | 2866.2 |
| 65° | 1787.9 | 1786.4 | 1946.1 | 2324.0 | 2751.0 | 3004.4 | 3042.8 | 3030.6 | 2982.9 | 2869.3 | 3044.4 |
| 67.5° | 1468.4 | 1503.8 | 1660.4 | 2059.8 | 2598.9 | 3032.1 | 3198.0 | 3182.6 | 3107.4 | 2964.5 | 3128.9 |
| 70° | 1119.8 | 1141.3 | 1319.4 | 1663.5 | 2296.3 | 2956.8 | 3350.0 | 3354.7 | 3218.0 | 2984.5 | 3092.0 |
| 72.5° | 714.2 | 751.1 | 892.4 | 1211.9 | 1838.6 | 2677.3 | 3440.7 | 3462.2 | 3279.4 | 2956.8 | 2863.1 |
| 73° | 654.3 | 657.4 | 795.7 | 1121.3 | 1695.8 | 2577.4 | 3434.5 | 3468.3 | 3285.5 | 2929.2 | 2800.2 |
| 75° | 390.1 | 407.0 | 490.0 | 745.0 | 1210.4 | 2070.5 | 3268.6 | 3336.2 | 3253.3 | 2806.3 | 2454.6 |
| 77.5° | 182.8 | 195.1 | 241.2 | 393.2 | 659.0 | 1245.7 | 2747.9 | 2827.8 | 2883.1 | 2456.1 | 1870.9 |
| 80° | 96.8 | 98.3 | 118.3 | 198.1 | 353.3 | 513.0 | 1915.4 | 2047.5 | 2125.8 | 1849.4 | 1258.0 |
| 82.5° | 81.4 | 81.4 | 92.2 | 127.5 | 225.8 | 199.7 | 789.5 | 940.0 | 1152.0 | 910.9 | 494.6 |
| 85° | 66.0 | 67.6 | 92.2 | 95.2 | 161.3 | 102.9 | 188.9 | 236.5 | 447.0 | 402.4 | 55.3 |
| 87.5° | 21.5 | 24.6 | 52.2 | 67.6 | 86.0 | 39.9 | 47.6 | 52.2 | 52.2 | 76.8 | 18.4 |
| 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° | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 |
| 2.5° | 634.4 | 634.4 | 635.9 | 637.4 | 640.5 | 640.5 | 643.6 | 645.1 | 648.2 | 649.7 | 645.1 |
| 5° | 640.5 | 643.6 | 646.7 | 655.9 | 666.6 | 675.8 | 685.1 | 692.7 | 700.4 | 705.0 | 703.5 |
| 7.5° | 657.4 | 662.0 | 674.3 | 691.2 | 712.7 | 726.5 | 740.4 | 754.2 | 760.3 | 763.4 | 763.4 |
| 10° | 680.5 | 689.7 | 712.7 | 740.4 | 764.9 | 786.4 | 797.2 | 806.4 | 809.5 | 812.6 | 809.5 |
| 12.5° | 712.7 | 725.0 | 760.3 | 795.7 | 823.3 | 834.1 | 832.5 | 820.2 | 803.3 | 800.3 | 797.2 |
| 15° | 754.2 | 769.5 | 809.5 | 851.0 | 872.5 | 858.6 | 823.3 | 811.0 | 807.9 | 817.2 | 814.1 |
| 17.5° | 789.5 | 807.9 | 857.1 | 900.1 | 895.5 | 847.9 | 837.1 | 843.3 | 840.2 | 841.7 | 841.7 |
| 20° | 823.3 | 849.4 | 901.6 | 930.8 | 890.9 | 860.2 | 851.0 | 843.3 | 834.1 | 837.1 | 834.1 |
| 22.5° | 866.3 | 884.7 | 944.6 | 946.2 | 884.7 | 860.2 | 840.2 | 824.8 | 821.8 | 823.3 | 824.8 |
| 25° | 900.1 | 929.3 | 981.5 | 935.4 | 884.7 | 835.6 | 807.9 | 804.9 | 806.4 | 815.6 | 812.6 |
| 27.5° | 946.2 | 975.4 | 1010.7 | 929.3 | 847.9 | 795.7 | 784.9 | 783.4 | 772.6 | 775.7 | 775.7 |
| 30° | 989.2 | 1024.5 | 1026.1 | 929.3 | 801.8 | 761.9 | 746.5 | 718.9 | 695.8 | 700.4 | 698.9 |
| 32.5° | 1047.6 | 1078.3 | 1029.1 | 892.4 | 749.6 | 717.3 | 675.8 | 632.8 | 622.1 | 628.2 | 629.8 |
| 35° | 1115.1 | 1139.7 | 1032.2 | 831.0 | 697.4 | 654.3 | 579.1 | 554.5 | 553.0 | 557.6 | 562.2 |
| 37.5° | 1204.2 | 1218.1 | 1055.2 | 760.3 | 646.7 | 556.0 | 497.7 | 491.5 | 477.7 | 468.5 | 470.0 |
| 40° | 1313.3 | 1296.4 | 1099.8 | 697.4 | 586.8 | 466.9 | 442.4 | 425.5 | 399.4 | 373.3 | 377.9 |
| 42.5° | 1434.6 | 1387.0 | 1113.6 | 646.7 | 505.3 | 411.7 | 388.6 | 362.5 | 330.2 | 302.6 | 301.1 |
| 45° | 1565.2 | 1488.4 | 1101.3 | 606.7 | 423.9 | 370.2 | 345.6 | 314.9 | 276.5 | 253.4 | 253.4 |
| 47.5° | 1720.3 | 1585.2 | 1062.9 | 574.5 | 367.1 | 333.3 | 302.6 | 271.9 | 245.8 | 224.3 | 224.3 |
| 50° | 1890.8 | 1697.3 | 1035.3 | 517.6 | 327.2 | 298.0 | 267.3 | 242.7 | 222.7 | 205.8 | 205.8 |
| 52.5° | 2070.5 | 1803.3 | 1012.2 | 434.7 | 291.8 | 265.7 | 244.2 | 224.3 | 207.4 | 185.9 | 182.8 |
| 55° | 2253.3 | 1904.7 | 1023.0 | 354.8 | 259.6 | 242.7 | 228.9 | 208.9 | 202.8 | 198.1 | 195.1 |
| 57.5° | 2443.8 | 2015.3 | 1049.1 | 290.3 | 231.9 | 230.4 | 224.3 | 238.1 | 251.9 | 242.7 | 238.1 |
| 60° | 2592.8 | 2101.3 | 1052.2 | 244.2 | 215.0 | 242.7 | 273.4 | 278.0 | 241.2 | 219.7 | 218.1 |
| 62.5° | 2711.1 | 2182.7 | 980.0 | 212.0 | 219.7 | 285.7 | 291.8 | 245.8 | 208.9 | 199.7 | 199.7 |
| 65° | 2772.5 | 2211.9 | 788.0 | 193.5 | 228.9 | 273.4 | 264.2 | 221.2 | 195.1 | 193.5 | 193.5 |
| 67.5° | 2741.8 | 2188.8 | 551.4 | 173.6 | 202.8 | 236.5 | 236.5 | 202.8 | 179.7 | 187.4 | 184.3 |
| 70° | 2594.3 | 2075.2 | 364.0 | 156.7 | 178.2 | 213.5 | 219.7 | 188.9 | 167.4 | 172.0 | 167.4 |
| 72.5° | 2287.1 | 1872.4 | 239.6 | 138.2 | 153.6 | 188.9 | 204.3 | 173.6 | 153.6 | 152.1 | 147.5 |
| 73° | 2227.2 | 1795.6 | 225.8 | 135.2 | 149.0 | 182.8 | 199.7 | 170.5 | 150.5 | 145.9 | 142.8 |
| 75° | 1889.3 | 1497.6 | 170.5 | 121.3 | 132.1 | 164.4 | 185.9 | 159.7 | 138.2 | 132.1 | 129.0 |
| 77.5° | 1376.3 | 1038.3 | 127.5 | 102.9 | 110.6 | 142.8 | 164.4 | 145.9 | 122.9 | 115.2 | 113.7 |
| 80° | 858.6 | 565.3 | 95.2 | 82.9 | 87.6 | 119.8 | 144.4 | 130.6 | 106.0 | 96.8 | 95.2 |
| 82.5° | 336.4 | 184.3 | 66.0 | 61.4 | 64.5 | 90.6 | 121.3 | 113.7 | 89.1 | 81.4 | 76.8 |
| 85° | 55.3 | 63.0 | 43.0 | 41.5 | 41.5 | 64.5 | 92.2 | 87.6 | 59.9 | 52.2 | 46.1 |
| 87.5° | 15.4 | 29.2 | 16.9 | 15.4 | 15.4 | 27.6 | 50.7 | 39.9 | 24.6 | 20.0 | 18.4 |
| 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)