

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: INVUE

Report Number: P553670

Luminaire Tested: **ARB-B3-LED-D1-T4-7030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34663)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B3-LED-D1-T4-7030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 3000K LEDS AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8090 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

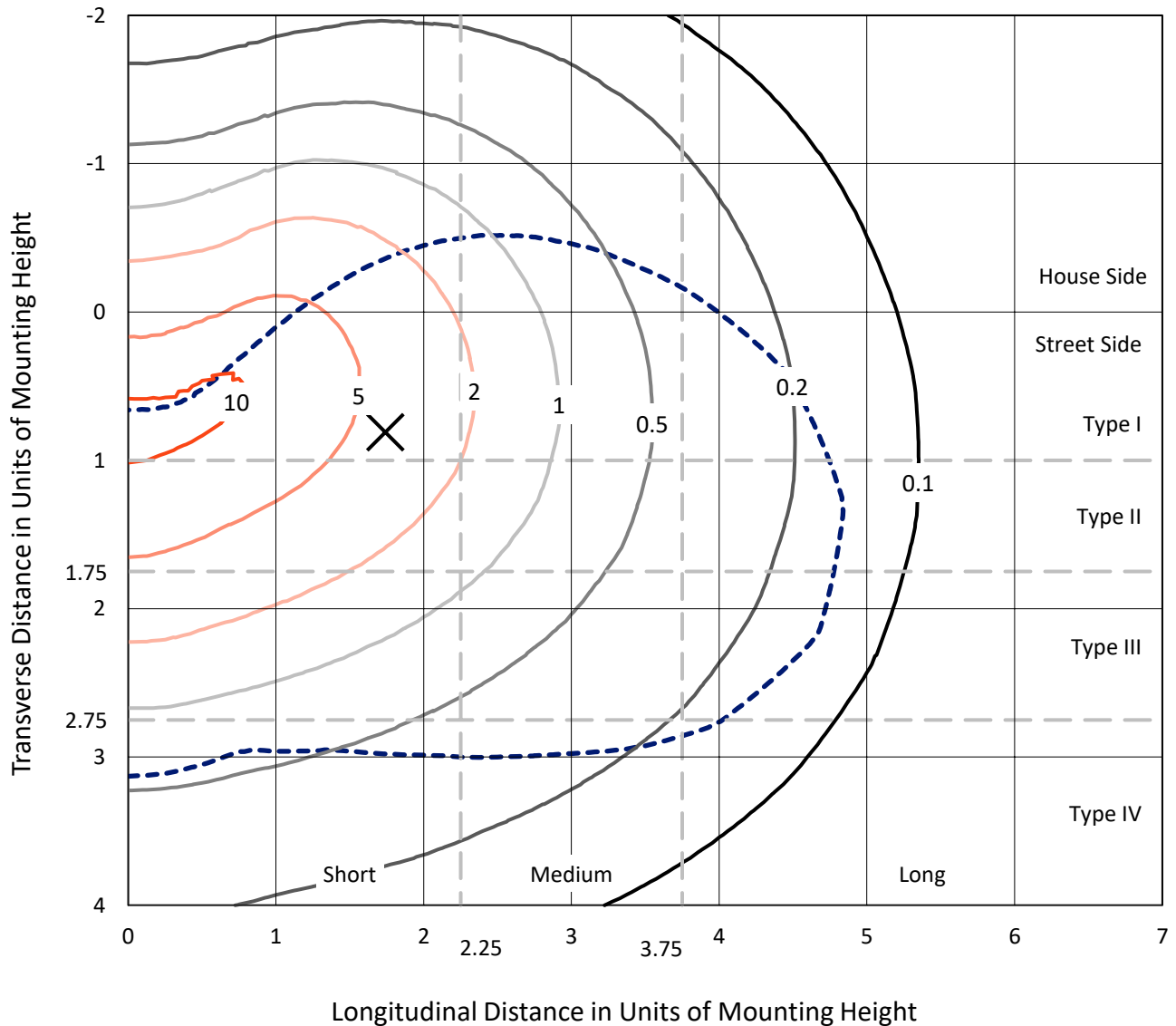
Input Watts (W): 99
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

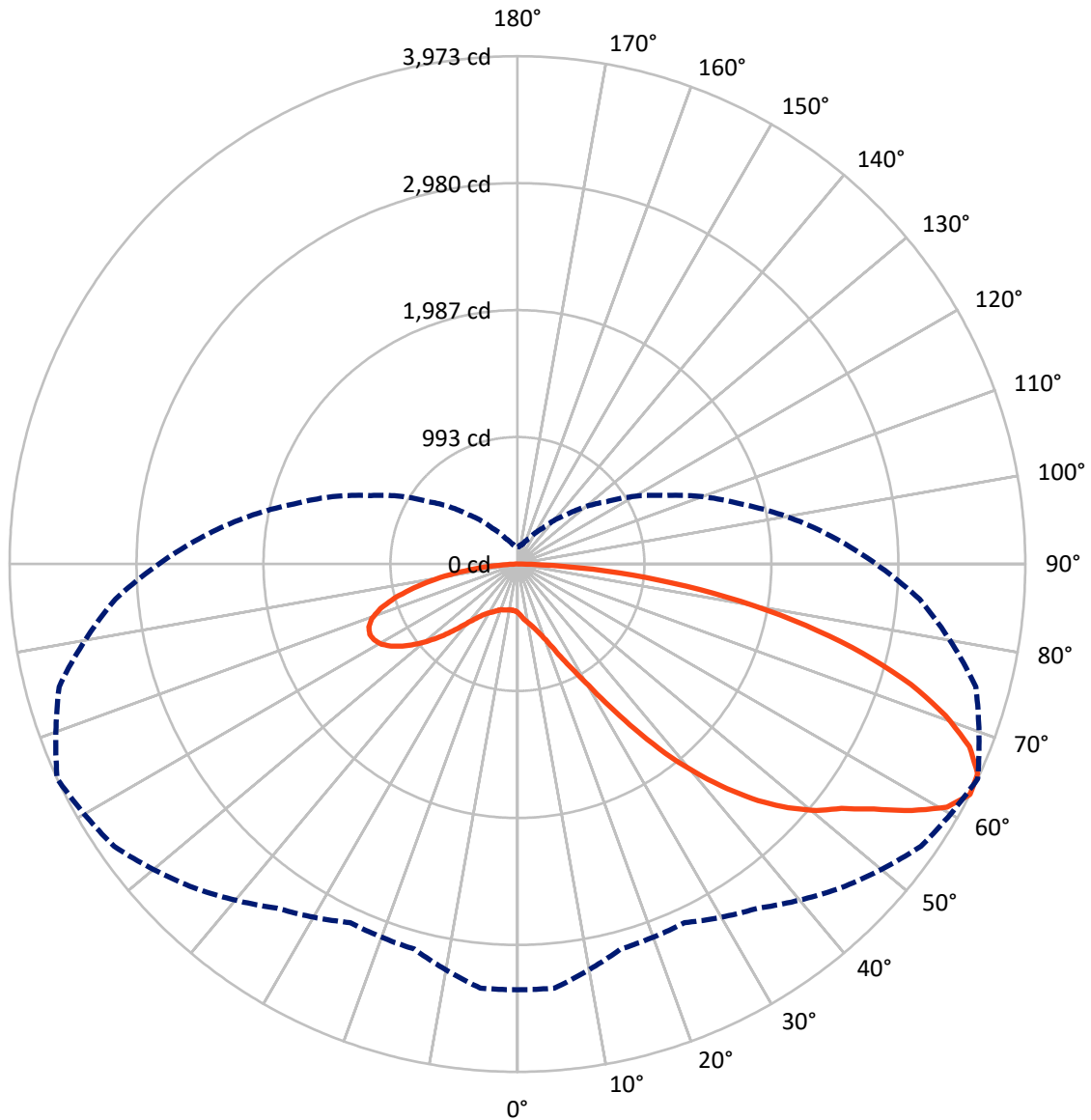
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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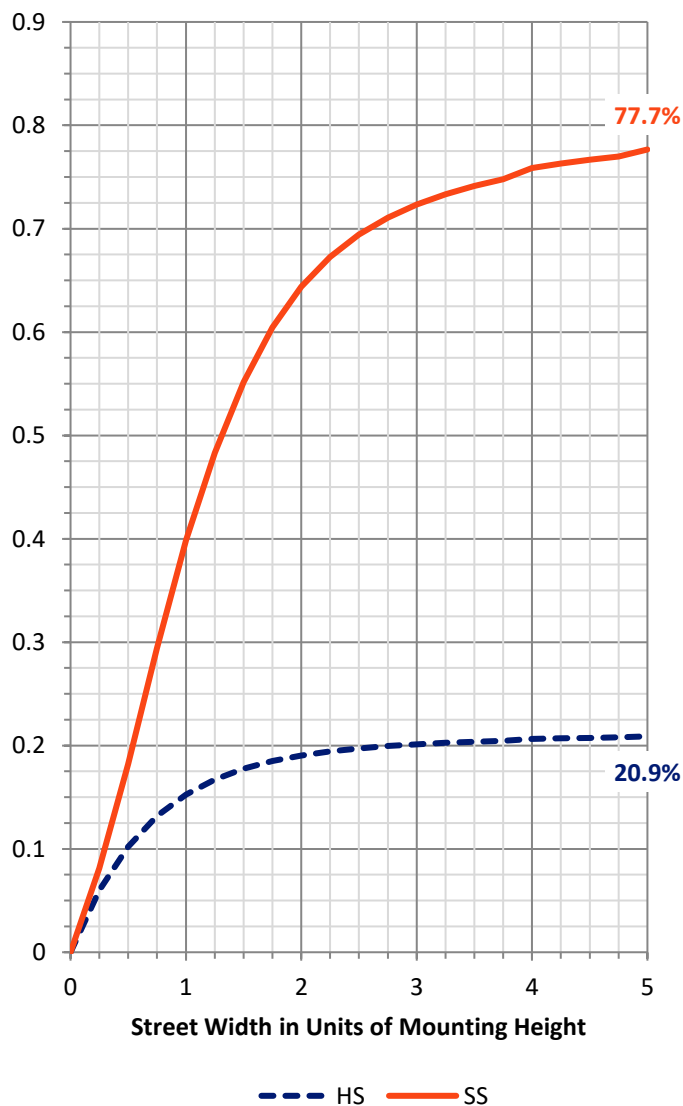
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1710.1 | 0.0 | 1710.1 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 6379.9 | 0.0 | 6379.9 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 8090.0 | 0.0 | 8090.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.3 | 0.5 |
| 10°-20° | 128.1 | 1.6 |
| 20°-30° | 289.6 | 3.6 |
| 30°-40° | 686.9 | 8.5 |
| 40°-50° | 1229.1 | 15.2 |
| 50°-60° | 1791.1 | 22.1 |
| 60°-70° | 2040.8 | 25.2 |
| 70°-80° | 1470.9 | 18.2 |
| 80°-90° | 415.2 | 5.1 |
| 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° | 8090.0 | 100.0 |
| 0°-180° | 8090.0 | 100.0 |

Coefficient of Utilization



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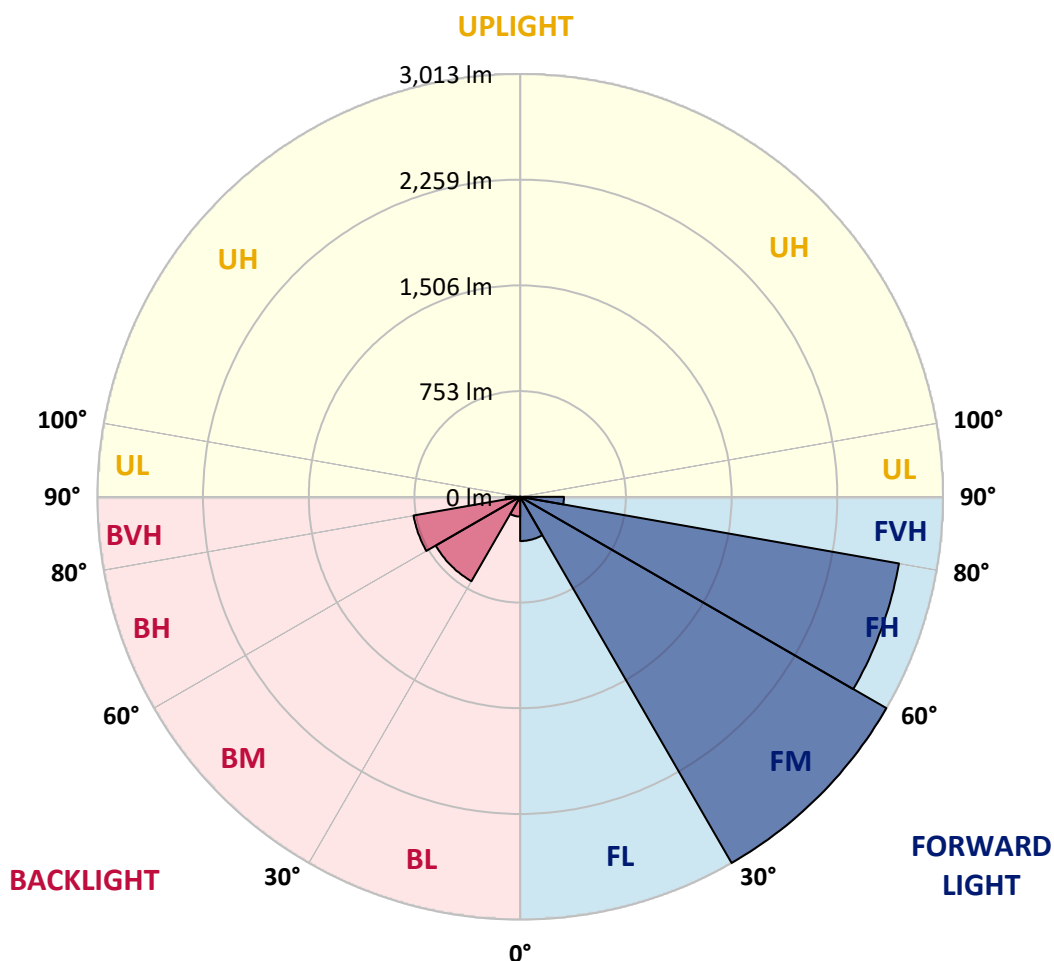
CATALOG NUMBER: ARB-B3-LED-D1-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 315.1 | 3.9 | | | |
| FM (30°-60°) | 3012.6 | 37.2 | | | |
| FH (60°-80°) | 2740.5 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 311.7 | 3.9 | | | G3/500 |
| BL (0°-30°) | 140.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 694.5 | 8.6 | B1/1000 | | |
| BH (60°-80°) | 771.2 | 9.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 103.5 | 1.3 | | | G2/225 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 |
| 2.5° | 423.6 | 419.9 | 419.9 | 418.9 | 415.2 | 410.5 | 405.0 | 397.5 | 392.9 | 385.4 | 381.7 |
| 5° | 460.8 | 460.8 | 459.0 | 456.2 | 450.6 | 443.1 | 432.9 | 422.6 | 411.5 | 398.4 | 392.9 |
| 7.5° | 496.2 | 496.2 | 494.3 | 487.8 | 481.3 | 472.9 | 459.9 | 445.9 | 430.1 | 412.4 | 404.0 |
| 10° | 535.3 | 533.4 | 528.8 | 521.3 | 512.0 | 499.9 | 485.9 | 469.2 | 450.6 | 429.2 | 418.0 |
| 12.5° | 567.9 | 567.9 | 566.0 | 558.6 | 546.5 | 530.6 | 514.8 | 495.3 | 474.8 | 447.8 | 434.7 |
| 15° | 604.2 | 603.2 | 603.2 | 597.7 | 587.4 | 570.7 | 550.2 | 530.6 | 504.6 | 469.2 | 454.3 |
| 17.5° | 673.1 | 670.3 | 662.8 | 647.0 | 635.8 | 622.8 | 603.2 | 575.3 | 541.8 | 497.1 | 476.6 |
| 20° | 765.2 | 769.9 | 746.6 | 719.6 | 697.3 | 686.1 | 668.4 | 632.1 | 583.7 | 521.3 | 495.3 |
| 22.5° | 909.5 | 903.0 | 863.0 | 833.2 | 795.9 | 774.5 | 760.6 | 711.2 | 645.1 | 567.9 | 533.4 |
| 25° | 1056.6 | 1052.0 | 1010.1 | 969.1 | 928.1 | 907.7 | 878.8 | 820.2 | 722.4 | 627.4 | 580.0 |
| 27.5° | 1199.0 | 1200.0 | 1168.3 | 1130.2 | 1102.2 | 1080.8 | 1027.8 | 949.6 | 818.3 | 697.3 | 641.4 |
| 30° | 1431.8 | 1453.2 | 1391.7 | 1367.5 | 1354.5 | 1333.1 | 1259.6 | 1104.1 | 946.8 | 787.6 | 715.0 |
| 32.5° | 1871.2 | 1860.0 | 1773.4 | 1674.7 | 1645.9 | 1612.4 | 1517.4 | 1331.2 | 1122.7 | 907.7 | 812.7 |
| 35° | 2343.2 | 2313.4 | 2157.9 | 2017.3 | 1936.3 | 1880.5 | 1794.8 | 1586.3 | 1332.2 | 1075.2 | 950.5 |
| 37.5° | 2536.8 | 2527.5 | 2426.9 | 2317.1 | 2227.7 | 2157.9 | 2076.9 | 1879.6 | 1590.0 | 1267.9 | 1103.2 |
| 40° | 2693.2 | 2690.4 | 2610.3 | 2521.0 | 2476.3 | 2398.1 | 2313.4 | 2145.8 | 1859.1 | 1482.0 | 1299.6 |
| 42.5° | 2797.5 | 2798.4 | 2726.7 | 2657.8 | 2647.6 | 2599.2 | 2540.5 | 2400.9 | 2103.0 | 1697.1 | 1488.6 |
| 45° | 2882.2 | 2883.1 | 2773.3 | 2744.4 | 2772.3 | 2775.1 | 2742.5 | 2641.1 | 2345.0 | 1941.0 | 1697.1 |
| 47.5° | 2952.9 | 2949.2 | 2808.6 | 2773.3 | 2846.8 | 2923.1 | 2911.0 | 2849.6 | 2585.2 | 2157.9 | 1901.0 |
| 50° | 2986.4 | 2976.2 | 2825.4 | 2794.7 | 2883.1 | 3002.3 | 3033.9 | 3032.0 | 2802.1 | 2350.6 | 2094.6 |
| 52.5° | 3126.1 | 3095.4 | 2925.0 | 2896.1 | 2974.3 | 3118.6 | 3173.6 | 3175.4 | 3003.2 | 2536.8 | 2268.7 |
| 55° | 3615.7 | 3605.5 | 3313.2 | 3162.4 | 3202.4 | 3360.7 | 3402.6 | 3383.9 | 3207.1 | 2709.9 | 2431.6 |
| 57.5° | 3661.4 | 3645.5 | 3427.7 | 3311.3 | 3385.8 | 3559.9 | 3659.5 | 3639.0 | 3426.8 | 2888.7 | 2560.1 |
| 60° | 3545.0 | 3515.2 | 3315.1 | 3261.1 | 3399.8 | 3633.4 | 3824.3 | 3861.5 | 3592.5 | 3058.1 | 2716.5 |
| 62.5° | 3330.9 | 3329.9 | 3118.6 | 3095.4 | 3285.3 | 3581.3 | 3852.2 | 3973.2 | 3712.6 | 3157.7 | 2804.9 |
| 65° | 3045.1 | 3036.7 | 2857.0 | 2879.4 | 3095.4 | 3427.7 | 3755.4 | 3956.5 | 3739.6 | 3174.5 | 2828.2 |
| 67.5° | 2579.6 | 2602.9 | 2515.4 | 2630.8 | 2850.5 | 3208.9 | 3570.1 | 3813.1 | 3641.8 | 3098.1 | 2773.3 |
| 70° | 2236.1 | 2259.4 | 2203.5 | 2331.1 | 2571.2 | 2930.6 | 3325.3 | 3553.4 | 3419.3 | 2935.2 | 2634.5 |
| 72.5° | 1956.8 | 1947.5 | 1902.8 | 2035.0 | 2263.1 | 2600.1 | 2988.3 | 3221.0 | 3103.7 | 2679.2 | 2412.0 |
| 75° | 1654.3 | 1636.6 | 1592.8 | 1705.5 | 1937.3 | 2233.3 | 2572.2 | 2793.7 | 2696.0 | 2358.1 | 2115.1 |
| 77.5° | 1338.7 | 1326.6 | 1282.8 | 1369.4 | 1550.0 | 1848.8 | 2155.1 | 2306.9 | 2245.4 | 1955.9 | 1754.8 |
| 80° | 1042.6 | 1017.5 | 970.0 | 1036.1 | 1187.9 | 1415.0 | 1646.8 | 1770.6 | 1706.4 | 1489.5 | 1339.6 |
| 82.5° | 688.9 | 711.2 | 690.8 | 693.5 | 829.5 | 996.1 | 1177.6 | 1223.2 | 1191.6 | 1022.2 | 927.2 |
| 85° | 408.7 | 398.4 | 383.5 | 387.3 | 458.0 | 574.4 | 665.6 | 695.4 | 666.5 | 561.4 | 516.7 |
| 87.5° | 87.5 | 92.2 | 95.9 | 85.6 | 118.2 | 156.4 | 175.9 | 179.7 | 182.5 | 157.3 | 138.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 | 378.9 |
| 2.5° | 378.9 | 373.3 | 368.6 | 364.0 | 360.3 | 358.4 | 356.5 | 355.6 | 354.7 | 355.6 |
| 5° | 387.3 | 376.1 | 365.9 | 356.5 | 349.1 | 343.5 | 337.9 | 335.1 | 332.3 | 332.3 |
| 7.5° | 395.6 | 378.9 | 363.1 | 349.1 | 337.0 | 325.8 | 318.4 | 313.7 | 310.0 | 310.0 |
| 10° | 405.9 | 384.5 | 363.1 | 343.5 | 326.8 | 313.7 | 301.6 | 295.1 | 290.5 | 289.5 |
| 12.5° | 420.8 | 392.9 | 366.8 | 342.6 | 321.2 | 303.5 | 289.5 | 279.3 | 273.7 | 272.8 |
| 15° | 437.5 | 403.1 | 370.5 | 342.6 | 316.5 | 292.3 | 275.6 | 263.5 | 256.9 | 255.1 |
| 17.5° | 454.3 | 413.3 | 376.1 | 341.7 | 310.0 | 283.0 | 263.5 | 249.5 | 243.0 | 241.1 |
| 20° | 471.1 | 422.6 | 378.0 | 337.9 | 302.6 | 273.7 | 251.4 | 237.4 | 229.0 | 229.0 |
| 22.5° | 501.8 | 442.2 | 390.1 | 340.7 | 300.7 | 268.1 | 242.0 | 227.1 | 219.7 | 217.8 |
| 25° | 542.7 | 467.3 | 404.0 | 346.3 | 299.8 | 262.5 | 234.6 | 217.8 | 210.4 | 208.5 |
| 27.5° | 591.1 | 497.1 | 419.9 | 352.8 | 299.8 | 257.9 | 228.1 | 210.4 | 201.1 | 201.1 |
| 30° | 650.7 | 532.5 | 436.6 | 360.3 | 298.8 | 253.2 | 221.6 | 202.9 | 194.6 | 193.6 |
| 32.5° | 727.1 | 580.0 | 457.1 | 366.8 | 298.8 | 249.5 | 216.0 | 196.4 | 187.1 | 186.2 |
| 35° | 832.3 | 635.8 | 486.9 | 378.9 | 300.7 | 248.6 | 213.2 | 191.8 | 181.5 | 180.6 |
| 37.5° | 960.7 | 715.0 | 527.8 | 402.2 | 310.0 | 251.4 | 213.2 | 189.9 | 179.7 | 178.7 |
| 40° | 1113.4 | 812.7 | 581.8 | 431.0 | 327.7 | 259.7 | 217.8 | 192.7 | 180.6 | 179.7 |
| 42.5° | 1289.3 | 920.7 | 657.2 | 475.7 | 353.8 | 270.9 | 220.6 | 192.7 | 180.6 | 178.7 |
| 45° | 1467.2 | 1054.7 | 745.7 | 521.3 | 374.2 | 280.2 | 219.7 | 190.8 | 178.7 | 176.9 |
| 47.5° | 1646.8 | 1196.2 | 838.8 | 574.4 | 396.6 | 288.6 | 221.6 | 189.0 | 175.0 | 173.2 |
| 50° | 1826.5 | 1331.2 | 931.9 | 633.0 | 425.4 | 294.2 | 224.4 | 184.3 | 171.3 | 168.5 |
| 52.5° | 1991.3 | 1475.5 | 1021.2 | 690.8 | 457.1 | 308.1 | 225.3 | 179.7 | 166.6 | 164.8 |
| 55° | 2130.0 | 1593.8 | 1105.9 | 754.1 | 492.5 | 323.0 | 224.4 | 177.8 | 161.1 | 159.2 |
| 57.5° | 2262.2 | 1688.7 | 1179.5 | 798.7 | 517.6 | 331.4 | 226.2 | 174.1 | 154.5 | 152.7 |
| 60° | 2386.0 | 1761.3 | 1235.3 | 833.2 | 536.2 | 338.9 | 225.3 | 168.5 | 146.2 | 146.2 |
| 62.5° | 2467.0 | 1810.7 | 1267.9 | 849.9 | 547.4 | 340.7 | 222.5 | 162.0 | 137.8 | 135.0 |
| 65° | 2487.5 | 1835.8 | 1280.0 | 853.7 | 545.5 | 335.1 | 212.3 | 155.5 | 126.6 | 122.9 |
| 67.5° | 2434.4 | 1813.5 | 1263.3 | 836.9 | 529.7 | 320.2 | 197.4 | 144.3 | 111.7 | 110.8 |
| 70° | 2315.2 | 1735.3 | 1214.9 | 798.7 | 500.8 | 300.7 | 179.7 | 130.3 | 100.5 | 96.8 |
| 72.5° | 2127.2 | 1597.5 | 1125.5 | 740.1 | 458.0 | 275.6 | 163.8 | 115.4 | 92.2 | 88.4 |
| 75° | 1868.4 | 1414.1 | 995.2 | 657.2 | 405.0 | 243.0 | 147.1 | 99.6 | 84.7 | 81.9 |
| 77.5° | 1556.5 | 1175.8 | 833.2 | 556.7 | 343.5 | 208.5 | 127.5 | 82.9 | 76.3 | 76.3 |
| 80° | 1183.2 | 926.3 | 653.5 | 435.7 | 270.9 | 165.7 | 105.2 | 68.9 | 66.1 | 67.0 |
| 82.5° | 809.0 | 633.0 | 454.3 | 305.3 | 195.5 | 124.7 | 80.1 | 55.9 | 54.9 | 54.9 |
| 85° | 439.4 | 358.4 | 257.9 | 181.5 | 116.4 | 81.0 | 54.9 | 42.8 | 42.8 | 42.8 |
| 87.5° | 135.9 | 109.9 | 76.3 | 57.7 | 47.5 | 38.2 | 32.6 | 28.9 | 30.7 | 30.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)