

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: P553664

Luminaire Tested: **ARB-B3-LED-D1-T2-7030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34669)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B3-LED-D1-T2-7030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 3000K LEDS AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6815 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

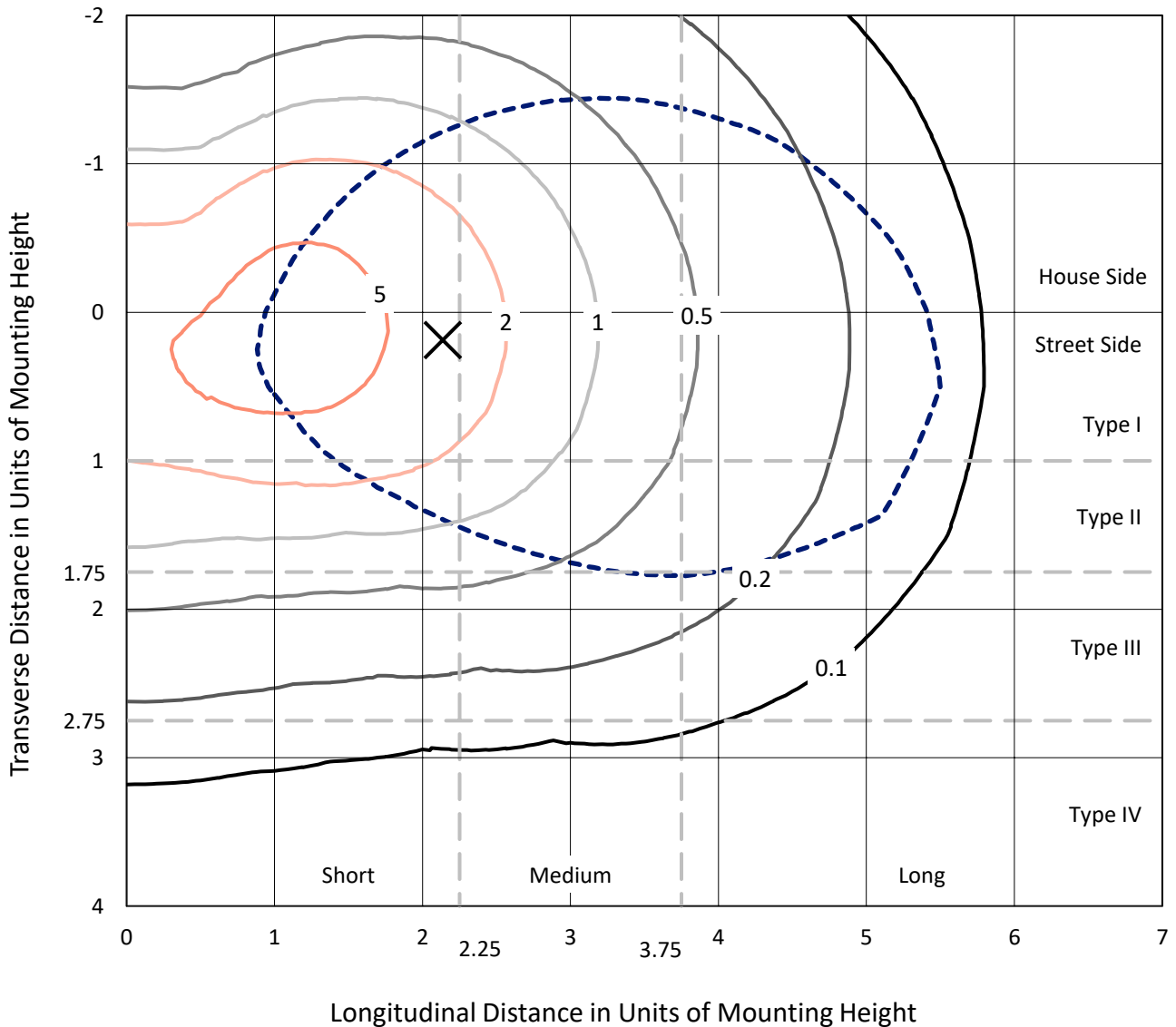


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Iso-Footcandle Lines of Horizontal Illumination

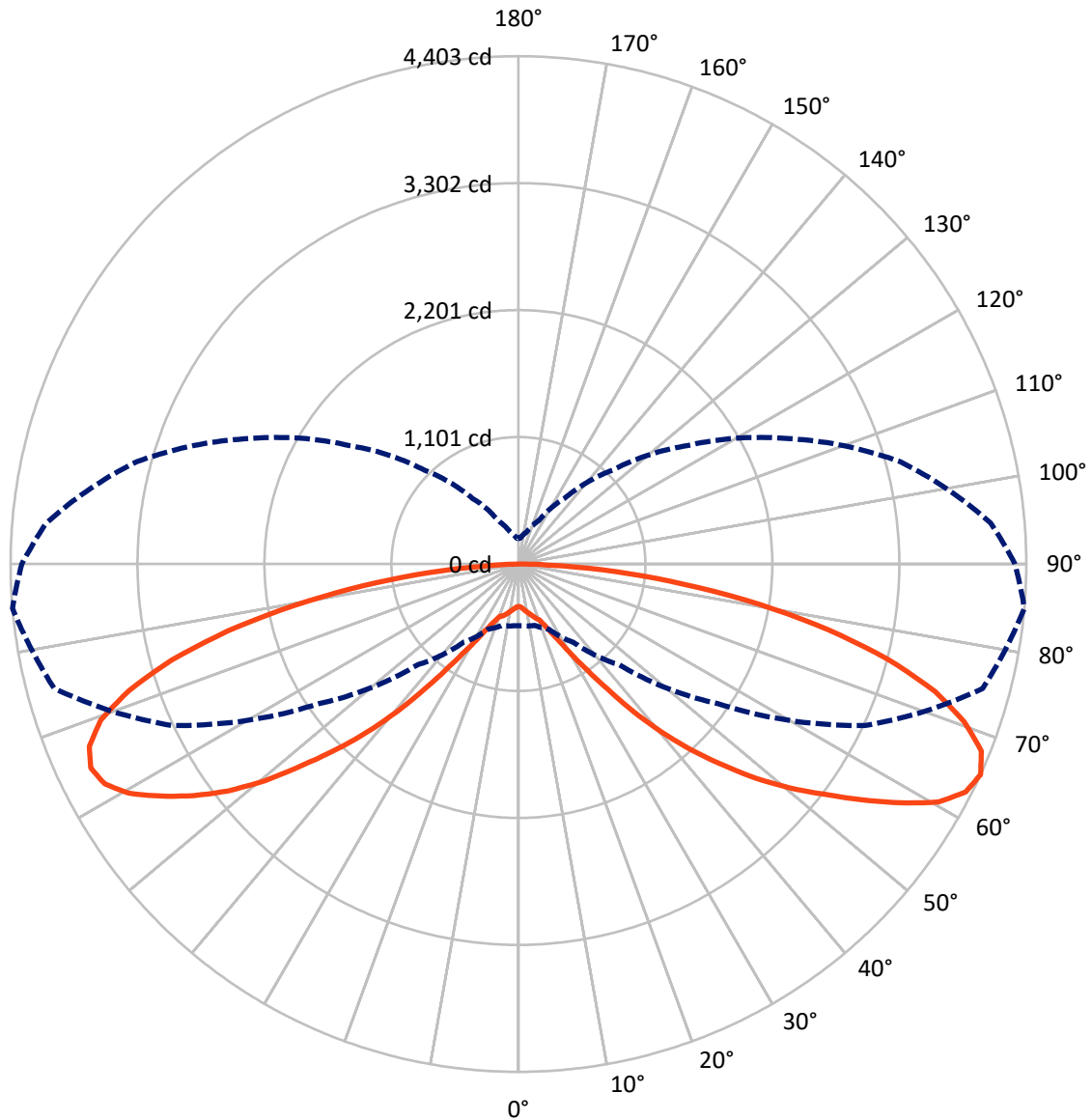
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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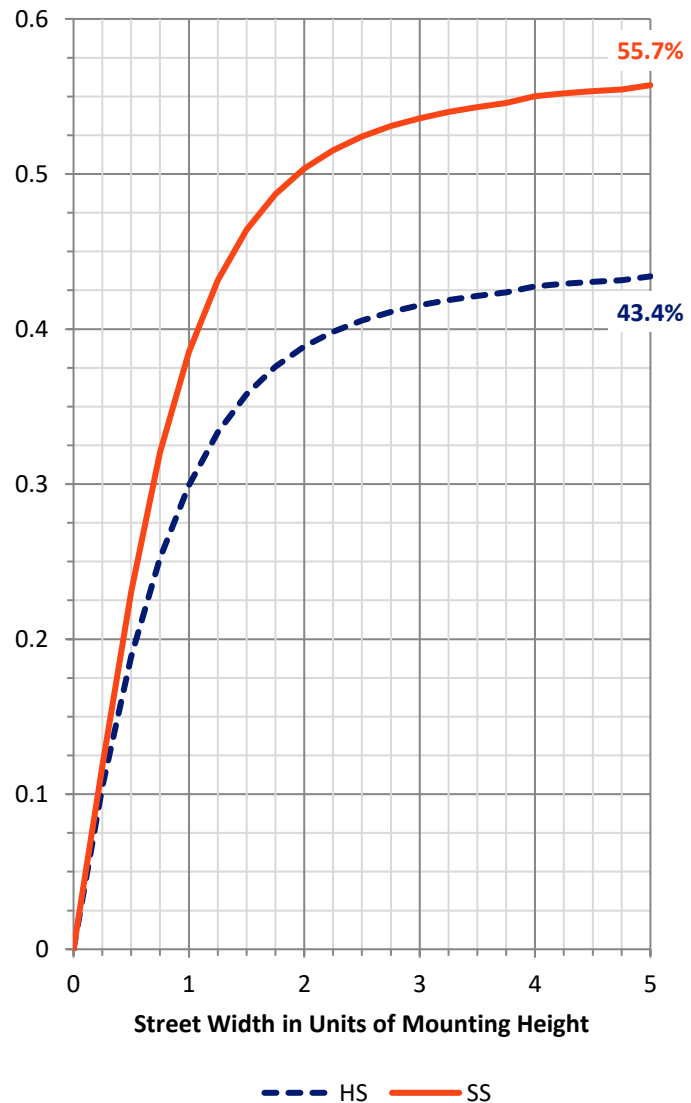
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2992.1 | 0.0 | 2992.1 |
| | % Fixture | 43.9 | 0.0 | 43.9 |
| Street Side | Lumens | 3822.9 | 0.0 | 3822.9 |
| | % Fixture | 56.1 | 0.0 | 56.1 |
| Total | Lumens | 6815.0 | 0.0 | 6815.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.2 | 0.5 |
| 10°-20° | 122.8 | 1.8 |
| 20°-30° | 248.5 | 3.6 |
| 30°-40° | 496.8 | 7.3 |
| 40°-50° | 922.6 | 13.5 |
| 50°-60° | 1443.2 | 21.2 |
| 60°-70° | 1757.9 | 25.8 |
| 70°-80° | 1379.0 | 20.2 |
| 80°-90° | 407.0 | 6.0 |
| 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° | 6815.0 | 100.0 |
| 0°-180° | 6815.0 | 100.0 |



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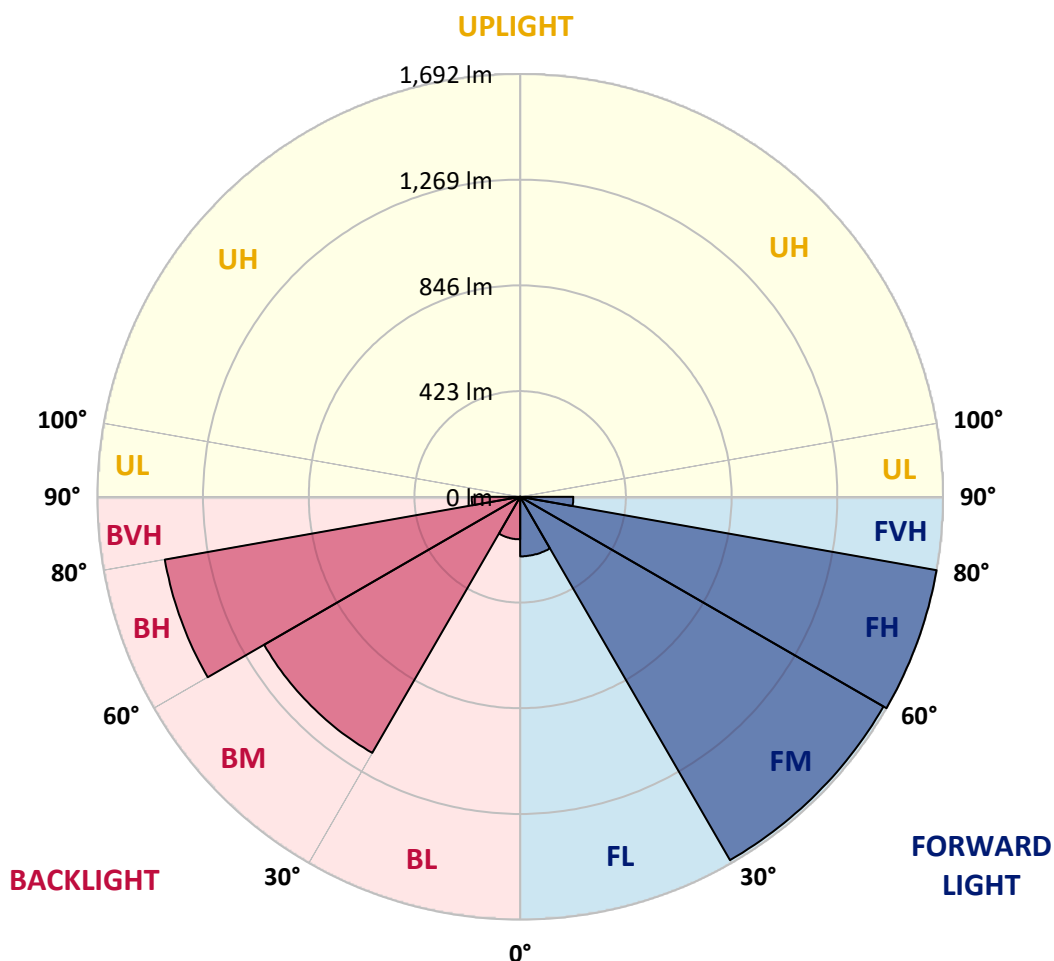
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 238.3 | 3.5 | | | |
| FM | (30°-60°) | 1679.2 | 24.6 | | | |
| FH | (60°-80°) | 1692.5 | 24.8 | | | G1/1800 |
| FVH | (80°-90°) | 212.8 | 3.1 | | | G2/225 |
| BL | (0°-30°) | 170.2 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 1183.4 | 17.4 | B2/2500 | | |
| BH | (60°-80°) | 1444.4 | 21.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 194.2 | 2.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 |
| 2.5° | 386.2 | 386.2 | 384.3 | 384.3 | 383.4 | 380.6 | 377.8 | 375.9 | 374.1 | 373.1 | 372.2 |
| 5° | 403.0 | 402.0 | 403.0 | 402.0 | 401.1 | 399.2 | 396.4 | 393.7 | 389.9 | 387.1 | 385.3 |
| 7.5° | 416.0 | 416.0 | 417.0 | 417.9 | 417.9 | 417.9 | 415.1 | 412.3 | 408.6 | 405.8 | 402.0 |
| 10° | 421.6 | 422.6 | 425.4 | 429.1 | 432.8 | 437.5 | 436.6 | 433.8 | 430.0 | 424.4 | 420.7 |
| 12.5° | 420.7 | 420.7 | 426.3 | 435.6 | 446.8 | 456.2 | 461.7 | 459.9 | 452.4 | 445.9 | 441.2 |
| 15° | 426.3 | 428.2 | 433.8 | 446.8 | 464.5 | 479.5 | 488.8 | 491.6 | 481.3 | 469.2 | 463.6 |
| 17.5° | 474.8 | 475.7 | 471.1 | 476.7 | 496.3 | 519.6 | 529.8 | 533.6 | 517.7 | 494.4 | 483.2 |
| 20° | 501.9 | 502.8 | 507.5 | 515.9 | 531.7 | 566.2 | 588.6 | 586.7 | 559.7 | 516.8 | 500.9 |
| 22.5° | 503.7 | 505.6 | 515.9 | 541.0 | 572.8 | 617.5 | 661.4 | 665.1 | 633.4 | 571.8 | 547.6 |
| 25° | 503.7 | 505.6 | 517.7 | 550.4 | 607.3 | 670.7 | 746.3 | 763.0 | 727.6 | 654.8 | 615.7 |
| 27.5° | 503.7 | 507.5 | 527.0 | 567.2 | 639.9 | 743.5 | 833.9 | 873.1 | 840.5 | 760.3 | 711.7 |
| 30° | 506.5 | 510.3 | 539.2 | 596.1 | 684.7 | 817.2 | 948.7 | 1017.7 | 993.5 | 908.6 | 844.2 |
| 32.5° | 538.2 | 539.2 | 566.2 | 627.8 | 741.6 | 892.7 | 1078.3 | 1176.3 | 1173.5 | 1098.9 | 1006.5 |
| 35° | 567.2 | 570.9 | 597.0 | 668.8 | 788.2 | 969.2 | 1209.9 | 1357.3 | 1411.4 | 1329.3 | 1226.7 |
| 37.5° | 571.8 | 576.5 | 615.7 | 703.3 | 833.9 | 1050.4 | 1351.7 | 1556.9 | 1680.9 | 1626.8 | 1513.0 |
| 40° | 575.6 | 582.1 | 624.1 | 717.3 | 869.4 | 1109.1 | 1480.4 | 1784.5 | 1943.1 | 1917.9 | 1811.5 |
| 42.5° | 578.3 | 586.7 | 627.8 | 719.2 | 881.5 | 1149.2 | 1586.7 | 1986.0 | 2199.6 | 2206.1 | 2106.3 |
| 45° | 563.4 | 572.8 | 620.3 | 716.4 | 879.7 | 1180.0 | 1679.1 | 2179.1 | 2441.2 | 2487.8 | 2421.6 |
| 47.5° | 568.1 | 576.5 | 616.6 | 715.5 | 889.9 | 1216.4 | 1764.0 | 2349.8 | 2673.5 | 2776.1 | 2701.5 |
| 50° | 608.2 | 611.0 | 634.3 | 733.2 | 931.0 | 1262.1 | 1847.0 | 2518.6 | 2893.6 | 3051.3 | 3003.7 |
| 52.5° | 633.4 | 627.8 | 640.8 | 745.3 | 963.6 | 1313.4 | 1944.9 | 2691.2 | 3138.9 | 3315.3 | 3319.9 |
| 55° | 673.5 | 671.6 | 667.9 | 758.4 | 984.1 | 1364.7 | 2055.9 | 2886.2 | 3420.7 | 3605.4 | 3604.4 |
| 57.5° | 660.4 | 664.2 | 668.8 | 751.9 | 988.8 | 1389.0 | 2160.4 | 3079.2 | 3700.5 | 3908.5 | 3864.7 |
| 60° | 619.4 | 625.0 | 639.0 | 722.9 | 960.8 | 1368.5 | 2198.7 | 3244.4 | 3934.6 | 4188.4 | 4103.5 |
| 62.5° | 583.0 | 586.7 | 598.9 | 679.1 | 905.8 | 1314.3 | 2177.2 | 3322.7 | 4099.8 | 4351.6 | 4263.0 |
| 65° | 534.5 | 538.2 | 551.3 | 623.1 | 827.4 | 1233.2 | 2108.2 | 3312.5 | 4166.9 | 4402.9 | 4305.0 |
| 67.5° | 476.7 | 481.3 | 498.1 | 569.0 | 750.0 | 1146.4 | 2016.8 | 3214.5 | 4097.9 | 4329.2 | 4239.7 |
| 70° | 423.5 | 427.2 | 440.3 | 503.7 | 668.8 | 1046.6 | 1897.4 | 3047.5 | 3878.7 | 4100.7 | 4032.6 |
| 72.5° | 370.3 | 372.2 | 382.5 | 442.2 | 584.9 | 933.8 | 1733.2 | 2783.5 | 3557.8 | 3777.9 | 3720.1 |
| 75° | 317.2 | 314.4 | 324.6 | 372.2 | 486.9 | 805.0 | 1536.4 | 2449.6 | 3115.6 | 3314.3 | 3252.8 |
| 77.5° | 259.3 | 258.4 | 267.7 | 301.3 | 391.8 | 671.6 | 1295.7 | 2035.4 | 2588.6 | 2746.2 | 2717.3 |
| 80° | 201.5 | 202.4 | 204.3 | 230.4 | 298.5 | 527.0 | 1014.0 | 1575.5 | 2022.4 | 2119.4 | 2059.7 |
| 82.5° | 146.5 | 145.5 | 146.5 | 162.3 | 217.3 | 381.5 | 730.4 | 1137.1 | 1417.9 | 1445.9 | 1432.8 |
| 85° | 88.6 | 88.6 | 87.7 | 94.2 | 132.5 | 216.4 | 405.8 | 638.1 | 784.5 | 848.9 | 801.3 |
| 87.5° | 29.9 | 30.8 | 31.7 | 38.2 | 45.7 | 58.8 | 99.8 | 172.6 | 209.0 | 252.8 | 220.1 |
| 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° | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 |
| 2.5° | 371.3 | 370.3 | 369.4 | 368.5 | 368.5 | 368.5 | 367.5 | 367.5 | 366.6 | 366.6 |
| 5° | 384.3 | 379.7 | 375.0 | 371.3 | 368.5 | 364.7 | 362.9 | 360.1 | 359.1 | 359.1 |
| 7.5° | 398.3 | 390.9 | 383.4 | 375.0 | 368.5 | 363.8 | 360.1 | 356.3 | 354.5 | 354.5 |
| 10° | 415.1 | 404.8 | 392.7 | 383.4 | 374.1 | 364.7 | 357.3 | 351.7 | 347.9 | 347.9 |
| 12.5° | 434.7 | 420.7 | 404.8 | 392.7 | 378.7 | 366.6 | 355.4 | 347.0 | 343.3 | 342.3 |
| 15° | 453.4 | 432.8 | 414.2 | 398.3 | 381.5 | 366.6 | 354.5 | 346.1 | 340.5 | 340.5 |
| 17.5° | 471.1 | 443.1 | 418.8 | 397.4 | 381.5 | 366.6 | 352.6 | 343.3 | 337.7 | 336.7 |
| 20° | 480.4 | 442.2 | 410.4 | 386.2 | 375.9 | 362.9 | 346.1 | 335.8 | 331.2 | 330.2 |
| 22.5° | 524.2 | 473.9 | 430.0 | 399.2 | 382.5 | 364.7 | 344.2 | 333.0 | 329.3 | 328.4 |
| 25° | 583.0 | 515.9 | 458.9 | 418.8 | 391.8 | 367.5 | 344.2 | 330.2 | 324.6 | 323.7 |
| 27.5° | 663.2 | 571.8 | 494.4 | 440.3 | 399.2 | 370.3 | 343.3 | 326.5 | 320.0 | 320.0 |
| 30° | 777.0 | 639.9 | 536.4 | 465.5 | 408.6 | 372.2 | 340.5 | 322.8 | 316.2 | 315.3 |
| 32.5° | 919.8 | 741.6 | 591.4 | 494.4 | 424.4 | 374.1 | 340.5 | 319.0 | 310.6 | 309.7 |
| 35° | 1115.7 | 865.7 | 681.9 | 538.2 | 445.0 | 381.5 | 340.5 | 317.2 | 307.8 | 306.9 |
| 37.5° | 1362.9 | 1070.9 | 806.0 | 616.6 | 476.7 | 395.5 | 347.9 | 322.8 | 312.5 | 311.6 |
| 40° | 1660.4 | 1299.4 | 951.5 | 707.1 | 536.4 | 420.7 | 365.7 | 336.7 | 324.6 | 323.7 |
| 42.5° | 1961.7 | 1539.2 | 1109.1 | 820.0 | 611.9 | 455.2 | 377.8 | 342.3 | 329.3 | 327.4 |
| 45° | 2252.8 | 1794.8 | 1304.1 | 950.5 | 681.0 | 487.9 | 379.7 | 343.3 | 330.2 | 328.4 |
| 47.5° | 2555.9 | 2083.0 | 1529.8 | 1084.9 | 753.7 | 514.9 | 385.3 | 341.4 | 328.4 | 326.5 |
| 50° | 2892.7 | 2389.0 | 1731.3 | 1204.3 | 832.1 | 545.7 | 393.7 | 337.7 | 326.5 | 324.6 |
| 52.5° | 3194.9 | 2669.7 | 1939.3 | 1341.4 | 915.1 | 588.6 | 401.1 | 329.3 | 320.0 | 320.0 |
| 55° | 3457.0 | 2917.9 | 2125.0 | 1472.0 | 991.6 | 630.6 | 404.8 | 325.6 | 308.8 | 308.8 |
| 57.5° | 3694.0 | 3111.0 | 2295.7 | 1579.3 | 1059.7 | 660.4 | 421.6 | 317.2 | 293.8 | 295.7 |
| 60° | 3916.9 | 3257.4 | 2434.7 | 1680.0 | 1109.1 | 686.6 | 430.0 | 305.0 | 274.2 | 276.1 |
| 62.5° | 4060.6 | 3372.2 | 2530.7 | 1754.6 | 1140.8 | 699.6 | 429.1 | 298.5 | 254.7 | 254.7 |
| 65° | 4107.2 | 3426.3 | 2572.7 | 1789.2 | 1149.2 | 695.0 | 415.1 | 291.0 | 230.4 | 220.1 |
| 67.5° | 4041.0 | 3396.4 | 2555.9 | 1778.9 | 1126.8 | 672.6 | 395.5 | 278.9 | 201.5 | 195.9 |
| 70° | 3865.6 | 3248.1 | 2466.4 | 1722.9 | 1072.7 | 627.8 | 369.4 | 250.0 | 182.8 | 168.8 |
| 72.5° | 3549.4 | 3005.6 | 2293.8 | 1610.1 | 994.4 | 570.9 | 338.6 | 218.3 | 167.9 | 162.3 |
| 75° | 3119.4 | 2626.8 | 2044.7 | 1435.6 | 885.2 | 506.5 | 298.5 | 185.6 | 153.9 | 155.8 |
| 77.5° | 2586.7 | 2191.2 | 1708.9 | 1222.0 | 761.2 | 426.3 | 253.7 | 153.0 | 138.1 | 146.5 |
| 80° | 1972.0 | 1697.7 | 1320.9 | 967.3 | 616.6 | 339.5 | 205.2 | 124.1 | 118.5 | 122.2 |
| 82.5° | 1362.9 | 1177.2 | 934.7 | 681.0 | 444.0 | 257.5 | 151.1 | 97.9 | 92.3 | 90.5 |
| 85° | 774.2 | 644.6 | 521.4 | 392.7 | 264.9 | 158.6 | 102.6 | 71.8 | 65.3 | 65.3 |
| 87.5° | 210.8 | 190.3 | 152.1 | 114.7 | 84.9 | 62.5 | 50.4 | 39.2 | 35.4 | 34.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)