

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: P472213

Luminaire Tested: **CCP-VA-1-727-U-T2**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472213
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-1-727-U-T2
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

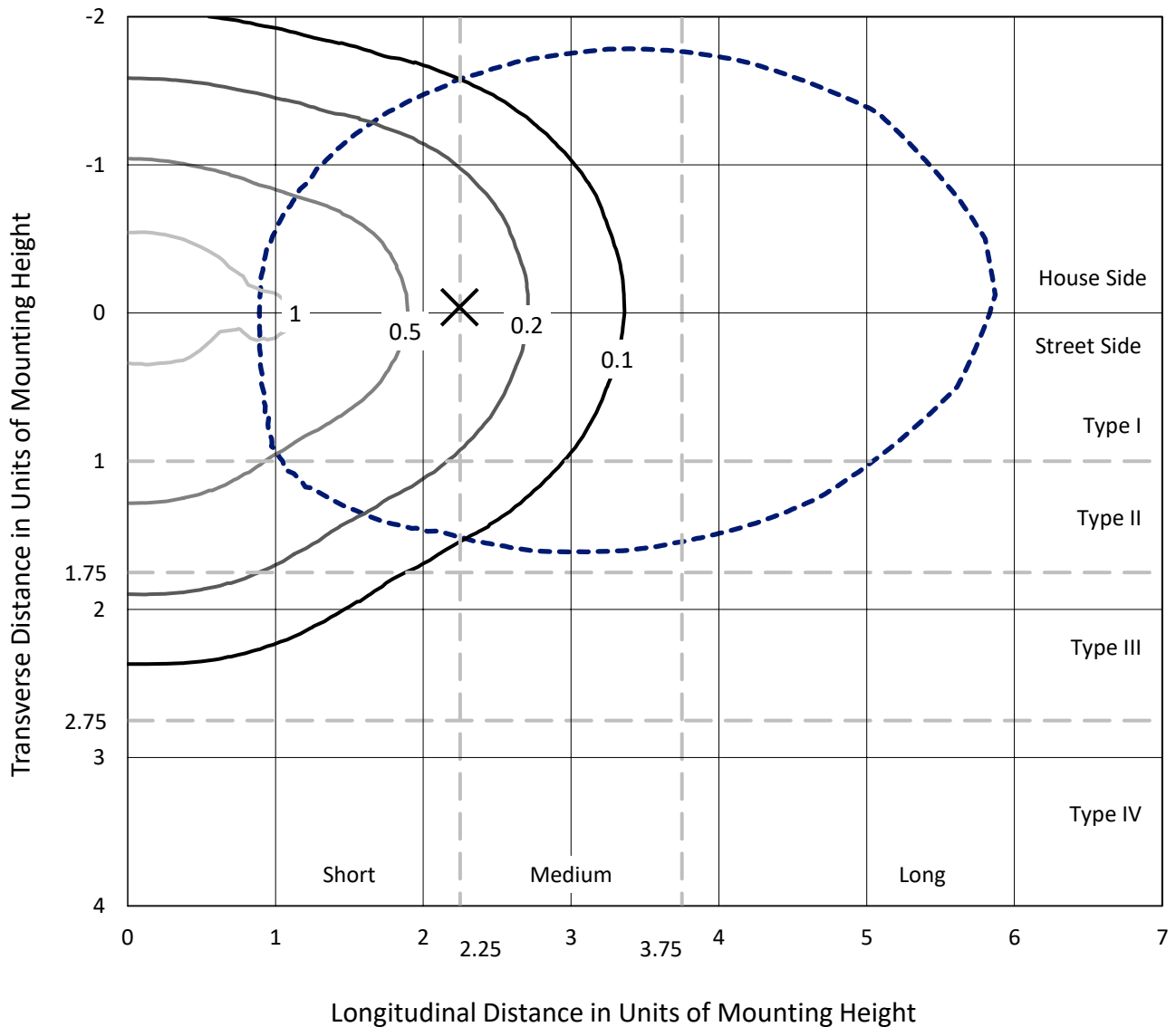
Lumens per Lamp: N/A
Luminaire Lumens: 2553.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 29.8
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

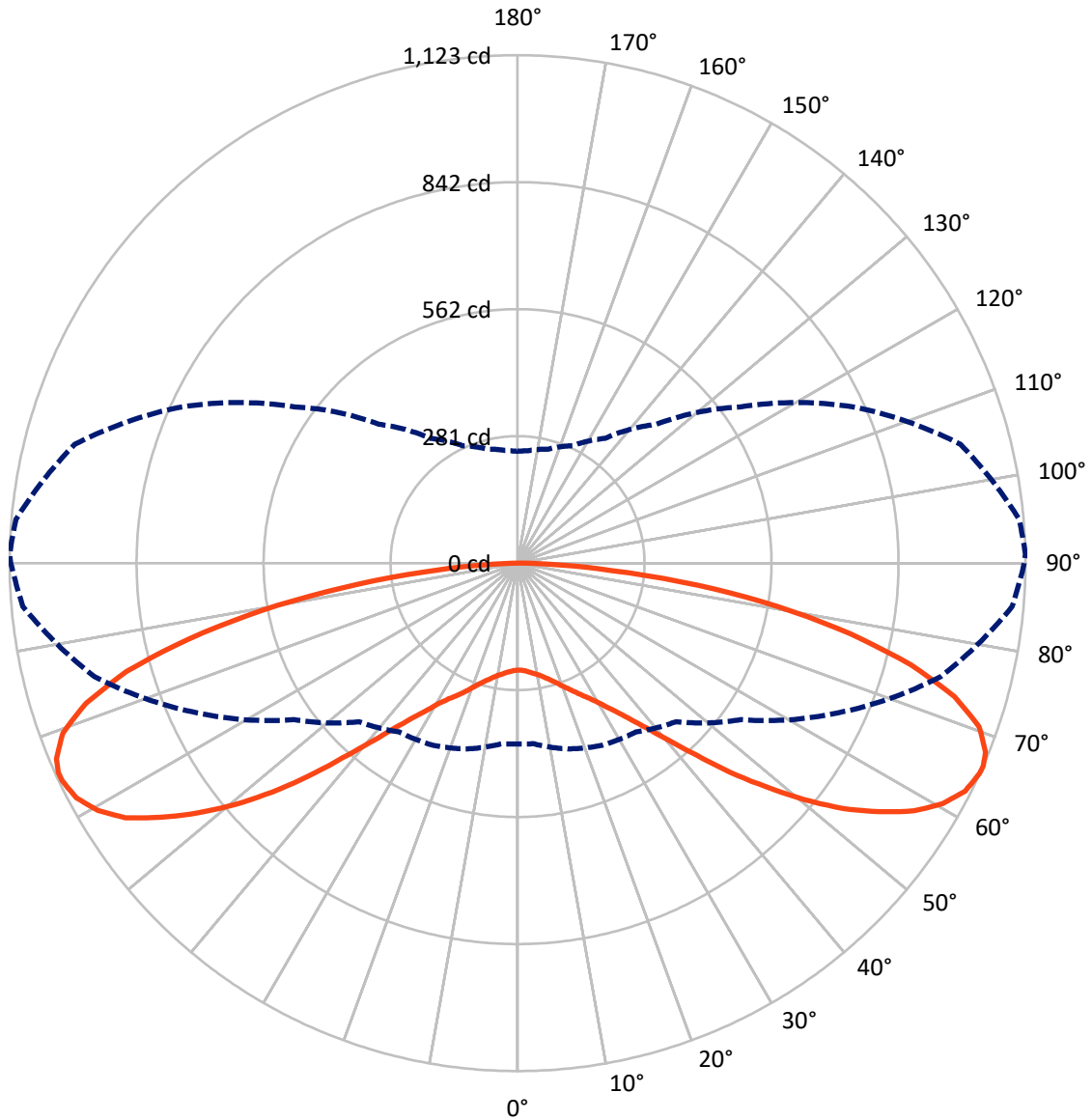
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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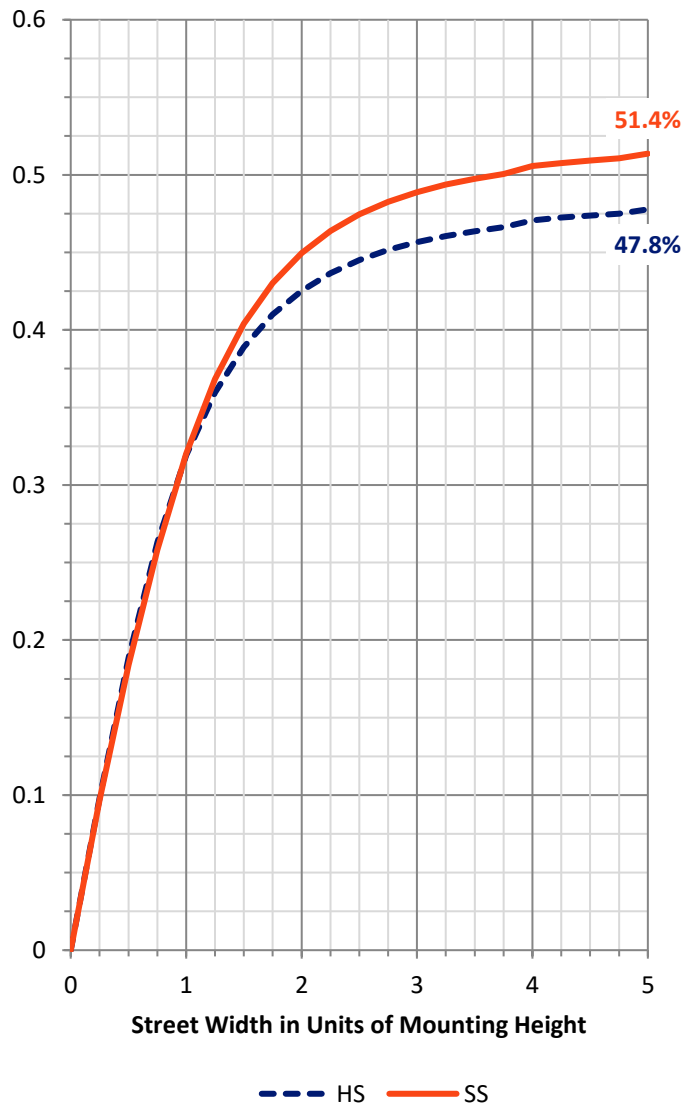
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1232.4 | 0.0 | 1232.4 |
| | % Fixture | 48.3 | 0.0 | 48.3 |
| Street Side | Lumens | 1320.9 | 0.0 | 1320.9 |
| | % Fixture | 51.7 | 0.0 | 51.7 |
| Total | Lumens | 2553.3 | 0.0 | 2553.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.3 | 0.9 |
| 10°-20° | 76.2 | 3.0 |
| 20°-30° | 147.4 | 5.8 |
| 30°-40° | 241.9 | 9.5 |
| 40°-50° | 383.1 | 15.0 |
| 50°-60° | 528.3 | 20.7 |
| 60°-70° | 593.2 | 23.2 |
| 70°-80° | 443.4 | 17.4 |
| 80°-90° | 116.5 | 4.6 |
| 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° | 2553.3 | 100.0 |
| 0°-180° | 2553.3 | 100.0 |



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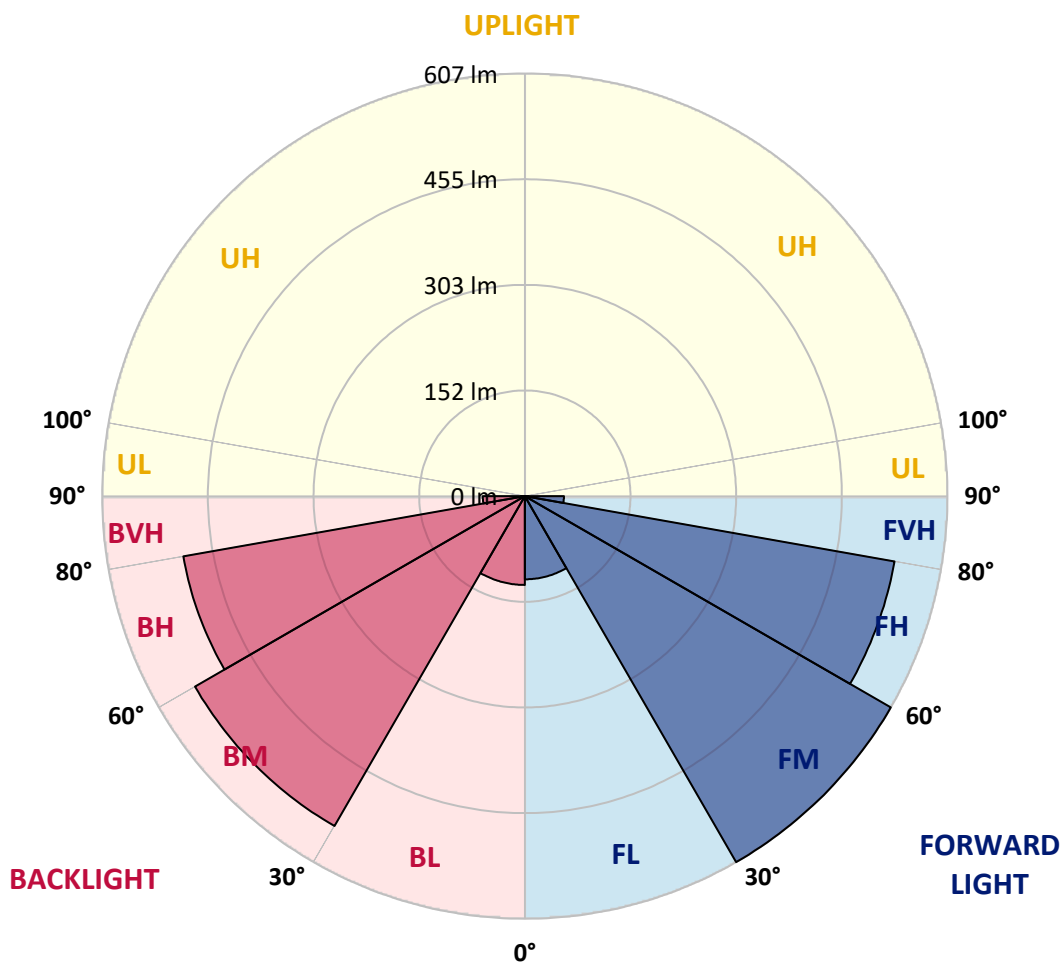
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 119.4 | 4.7 | | | |
| FM (30°-60°) | 606.6 | 23.8 | | | |
| FH (60°-80°) | 538.9 | 21.1 | | | G0/660 |
| FVH (80°-90°) | 56.1 | 2.2 | | | G1/100 |
| BL (0°-30°) | 127.5 | 5.0 | B1/500 | | |
| BM (30°-60°) | 546.7 | 21.4 | B1/1000 | | |
| BH (60°-80°) | 497.7 | 19.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 60.4 | 2.4 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 |
| 2.5° | 237.5 | 237.5 | 237.5 | 237.5 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 237.5 | 237.5 |
| 5° | 239.3 | 239.3 | 239.3 | 239.3 | 240.2 | 240.2 | 240.2 | 240.2 | 241.1 | 241.1 | 241.1 |
| 7.5° | 241.1 | 241.1 | 242.0 | 242.0 | 242.9 | 242.9 | 243.8 | 243.8 | 244.7 | 245.6 | 245.6 |
| 10° | 244.7 | 244.7 | 245.6 | 245.6 | 247.4 | 248.3 | 249.2 | 249.2 | 251.0 | 251.0 | 251.0 |
| 12.5° | 249.2 | 250.1 | 251.0 | 251.9 | 253.7 | 254.6 | 255.6 | 256.5 | 257.4 | 258.3 | 258.3 |
| 15° | 256.5 | 255.6 | 257.4 | 259.2 | 260.1 | 261.9 | 262.8 | 263.7 | 265.5 | 267.3 | 267.3 |
| 17.5° | 261.9 | 262.8 | 263.7 | 265.5 | 267.3 | 270.0 | 271.8 | 273.6 | 275.4 | 277.2 | 277.2 |
| 20° | 269.1 | 268.2 | 271.8 | 274.5 | 276.3 | 279.9 | 282.6 | 286.3 | 288.1 | 289.9 | 290.8 |
| 22.5° | 275.4 | 276.3 | 278.1 | 281.7 | 285.4 | 290.8 | 296.2 | 298.9 | 301.6 | 303.4 | 306.1 |
| 25° | 283.5 | 284.4 | 287.2 | 290.8 | 296.2 | 302.5 | 308.8 | 312.4 | 315.2 | 318.8 | 321.5 |
| 27.5° | 291.7 | 291.7 | 296.2 | 301.6 | 307.9 | 316.1 | 323.3 | 326.9 | 331.4 | 335.9 | 337.7 |
| 30° | 300.7 | 300.7 | 305.2 | 312.4 | 321.5 | 330.5 | 336.8 | 344.0 | 350.4 | 354.9 | 358.5 |
| 32.5° | 314.2 | 314.2 | 319.7 | 326.9 | 336.8 | 347.7 | 356.7 | 363.9 | 372.0 | 380.2 | 387.4 |
| 35° | 329.6 | 330.5 | 337.7 | 346.8 | 358.5 | 372.0 | 380.2 | 390.1 | 399.1 | 412.7 | 419.9 |
| 37.5° | 354.0 | 354.9 | 363.0 | 374.7 | 386.5 | 400.9 | 414.5 | 426.2 | 439.8 | 455.1 | 460.5 |
| 40° | 390.1 | 392.8 | 400.9 | 406.4 | 417.2 | 428.0 | 447.9 | 467.8 | 491.2 | 512.0 | 515.6 |
| 42.5° | 455.1 | 452.4 | 447.0 | 445.2 | 447.9 | 459.6 | 481.3 | 512.0 | 553.5 | 579.7 | 579.7 |
| 45° | 480.4 | 480.4 | 481.3 | 479.5 | 477.7 | 485.8 | 511.1 | 559.9 | 618.6 | 654.7 | 661.9 |
| 47.5° | 484.9 | 485.8 | 493.9 | 501.2 | 503.0 | 512.0 | 542.7 | 606.8 | 685.4 | 738.7 | 743.2 |
| 50° | 484.9 | 486.7 | 497.6 | 510.2 | 519.2 | 531.9 | 569.8 | 648.4 | 751.3 | 812.7 | 824.4 |
| 52.5° | 483.1 | 484.9 | 496.7 | 512.0 | 526.5 | 544.5 | 593.3 | 691.7 | 810.0 | 893.1 | 898.5 |
| 55° | 478.6 | 480.4 | 494.9 | 511.1 | 527.4 | 551.7 | 612.2 | 728.7 | 866.9 | 959.9 | 969.8 |
| 57.5° | 473.2 | 475.9 | 491.2 | 508.4 | 523.7 | 553.5 | 624.9 | 757.6 | 912.9 | 1019.5 | 1037.6 |
| 60° | 462.3 | 466.9 | 484.0 | 501.2 | 515.6 | 547.2 | 631.2 | 780.2 | 947.3 | 1062.8 | 1080.9 |
| 62.5° | 440.7 | 445.2 | 464.1 | 483.1 | 497.6 | 531.9 | 627.6 | 791.0 | 967.1 | 1089.9 | 1108.9 |
| 65° | 413.6 | 415.4 | 436.2 | 456.0 | 470.5 | 506.6 | 612.2 | 789.2 | 971.6 | 1099.0 | 1120.6 |
| 66° | 400.0 | 400.9 | 425.3 | 444.3 | 456.0 | 495.8 | 603.2 | 782.9 | 968.9 | 1098.1 | 1120.6 |
| 67.5° | 375.7 | 380.2 | 400.9 | 420.8 | 434.3 | 471.4 | 581.5 | 768.5 | 958.1 | 1089.0 | 1112.5 |
| 70° | 333.2 | 336.8 | 354.0 | 373.8 | 388.3 | 423.5 | 534.6 | 726.0 | 918.4 | 1052.0 | 1079.1 |
| 72.5° | 287.2 | 289.9 | 307.9 | 322.4 | 331.4 | 369.3 | 477.7 | 656.5 | 848.8 | 982.5 | 1008.7 |
| 75° | 238.4 | 240.2 | 256.5 | 266.4 | 274.5 | 307.9 | 401.8 | 567.1 | 739.6 | 869.6 | 903.9 |
| 77.5° | 187.8 | 188.7 | 202.3 | 211.3 | 211.3 | 240.2 | 318.8 | 459.6 | 606.8 | 726.9 | 752.2 |
| 80° | 138.2 | 137.3 | 145.4 | 149.9 | 152.6 | 171.6 | 229.4 | 337.7 | 462.3 | 556.3 | 580.6 |
| 82.5° | 90.3 | 89.4 | 94.8 | 96.6 | 96.6 | 108.4 | 144.5 | 214.0 | 303.4 | 377.5 | 391.9 |
| 85° | 47.9 | 49.7 | 48.8 | 48.8 | 48.8 | 53.3 | 72.2 | 112.0 | 161.6 | 202.3 | 212.2 |
| 87.5° | 8.1 | 8.1 | 8.1 | 9.0 | 10.8 | 14.4 | 19.0 | 31.6 | 46.1 | 62.3 | 70.4 |
| 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):

| | 91° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 | 236.6 |
| 2.5° | 237.5 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 | 238.4 |
| 5° | 241.1 | 241.1 | 241.1 | 242.0 | 242.0 | 242.0 | 242.0 | 242.0 | 242.0 | 242.0 | 242.0 |
| 7.5° | 245.6 | 245.6 | 246.5 | 246.5 | 246.5 | 247.4 | 247.4 | 246.5 | 246.5 | 246.5 | 246.5 |
| 10° | 251.0 | 251.0 | 251.9 | 252.8 | 252.8 | 253.7 | 253.7 | 252.8 | 252.8 | 251.9 | 251.9 |
| 12.5° | 258.3 | 259.2 | 260.1 | 261.0 | 261.9 | 261.9 | 261.0 | 260.1 | 259.2 | 258.3 | 258.3 |
| 15° | 267.3 | 268.2 | 269.1 | 270.9 | 270.9 | 270.9 | 270.0 | 269.1 | 267.3 | 266.4 | 267.3 |
| 17.5° | 278.1 | 279.0 | 280.8 | 281.7 | 282.6 | 281.7 | 281.7 | 280.8 | 280.8 | 279.9 | 279.9 |
| 20° | 291.7 | 292.6 | 295.3 | 296.2 | 296.2 | 297.1 | 299.8 | 301.6 | 304.3 | 305.2 | 305.2 |
| 22.5° | 305.2 | 307.0 | 309.7 | 313.3 | 315.2 | 318.8 | 319.7 | 321.5 | 320.6 | 317.9 | 317.9 |
| 25° | 321.5 | 323.3 | 328.7 | 333.2 | 336.8 | 338.6 | 336.8 | 334.1 | 329.6 | 326.0 | 325.1 |
| 27.5° | 338.6 | 341.3 | 349.5 | 355.8 | 357.6 | 355.8 | 348.6 | 342.2 | 336.8 | 332.3 | 330.5 |
| 30° | 360.3 | 364.8 | 373.8 | 377.5 | 376.6 | 369.3 | 358.5 | 350.4 | 342.2 | 336.8 | 335.9 |
| 32.5° | 387.4 | 391.9 | 400.0 | 400.9 | 395.5 | 382.0 | 367.5 | 356.7 | 346.8 | 340.4 | 339.5 |
| 35° | 419.9 | 424.4 | 428.9 | 426.2 | 410.9 | 393.7 | 375.7 | 360.3 | 350.4 | 343.1 | 343.1 |
| 37.5° | 461.4 | 464.1 | 464.1 | 450.6 | 427.1 | 404.5 | 382.0 | 363.9 | 353.1 | 345.9 | 345.0 |
| 40° | 515.6 | 514.7 | 502.1 | 475.9 | 445.2 | 414.5 | 386.5 | 367.5 | 354.0 | 346.8 | 345.9 |
| 42.5° | 580.6 | 574.3 | 547.2 | 504.8 | 462.3 | 423.5 | 391.9 | 368.4 | 353.1 | 345.9 | 345.0 |
| 45° | 660.1 | 649.3 | 600.5 | 538.2 | 480.4 | 431.6 | 394.6 | 367.5 | 350.4 | 342.2 | 341.3 |
| 47.5° | 738.7 | 732.3 | 665.5 | 573.4 | 498.5 | 440.7 | 396.4 | 364.8 | 345.0 | 333.2 | 333.2 |
| 50° | 821.7 | 806.4 | 730.5 | 615.9 | 517.4 | 447.0 | 396.4 | 360.3 | 335.9 | 323.3 | 321.5 |
| 52.5° | 902.1 | 886.8 | 796.5 | 658.3 | 538.2 | 453.3 | 394.6 | 354.0 | 327.8 | 314.2 | 312.4 |
| 55° | 970.7 | 958.1 | 860.6 | 706.2 | 559.9 | 457.8 | 391.9 | 346.8 | 319.7 | 307.0 | 305.2 |
| 57.5° | 1033.9 | 1021.3 | 916.6 | 746.8 | 580.6 | 460.5 | 385.6 | 337.7 | 309.7 | 297.1 | 296.2 |
| 60° | 1080.0 | 1070.1 | 964.4 | 784.7 | 597.8 | 460.5 | 376.6 | 326.9 | 298.9 | 286.3 | 285.4 |
| 62.5° | 1110.7 | 1100.8 | 998.7 | 810.0 | 608.6 | 454.2 | 363.0 | 312.4 | 285.4 | 273.6 | 270.9 |
| 65° | 1122.4 | 1113.4 | 1014.1 | 819.9 | 606.8 | 441.6 | 345.0 | 294.4 | 268.2 | 256.5 | 254.6 |
| 66° | 1123.3 | 1113.4 | 1014.1 | 818.1 | 602.3 | 434.3 | 336.8 | 286.3 | 261.0 | 249.2 | 247.4 |
| 67.5° | 1116.1 | 1107.1 | 1007.8 | 809.1 | 589.7 | 420.8 | 320.6 | 272.7 | 247.4 | 235.7 | 234.8 |
| 70° | 1082.7 | 1075.5 | 973.4 | 774.8 | 559.9 | 391.0 | 293.5 | 246.5 | 222.1 | 214.0 | 211.3 |
| 72.5° | 1010.5 | 1002.3 | 904.8 | 710.7 | 511.1 | 350.4 | 259.2 | 215.8 | 196.0 | 186.0 | 185.1 |
| 75° | 898.5 | 894.9 | 800.1 | 625.8 | 440.7 | 301.6 | 219.4 | 182.4 | 166.2 | 158.9 | 158.9 |
| 77.5° | 752.2 | 745.0 | 664.6 | 517.4 | 362.1 | 243.8 | 176.1 | 148.1 | 135.5 | 129.1 | 130.0 |
| 80° | 585.2 | 579.7 | 512.0 | 388.3 | 273.6 | 183.3 | 131.8 | 112.9 | 103.8 | 100.2 | 98.4 |
| 82.5° | 400.9 | 386.5 | 341.3 | 257.4 | 177.9 | 123.7 | 91.2 | 78.6 | 74.0 | 73.1 | 72.2 |
| 85° | 208.6 | 214.0 | 179.7 | 136.4 | 96.6 | 68.6 | 55.1 | 50.6 | 48.8 | 49.7 | 49.7 |
| 87.5° | 68.6 | 70.4 | 54.2 | 41.5 | 31.6 | 24.4 | 20.8 | 19.9 | 17.2 | 19.0 | 19.9 |
| 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)