

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: P675521

Luminaire Tested: **CCW-SA-1A-727-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675521
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-727-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL3 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

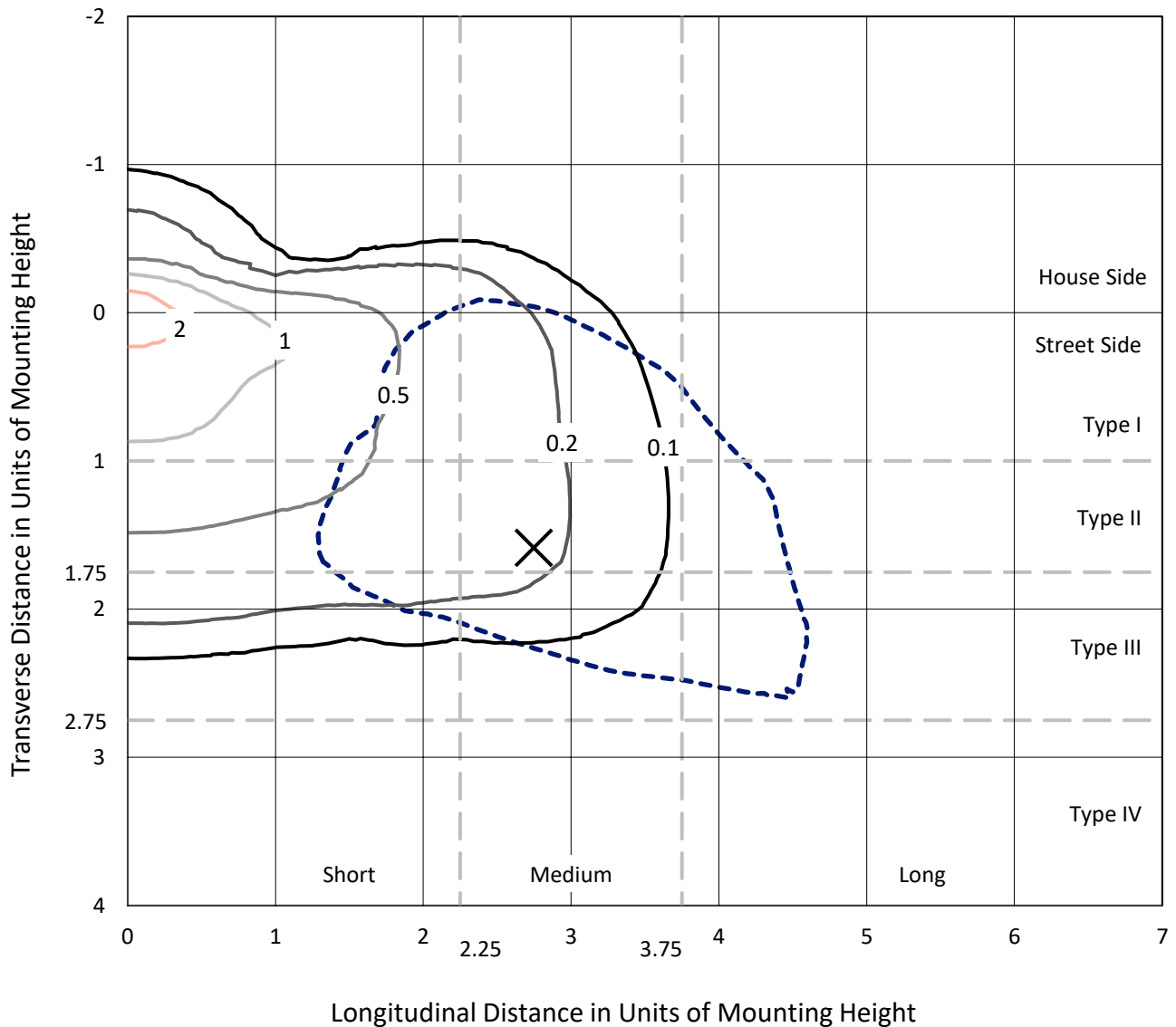
Lumens per Lamp: N/A
Luminaire Lumens: 2262.2 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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

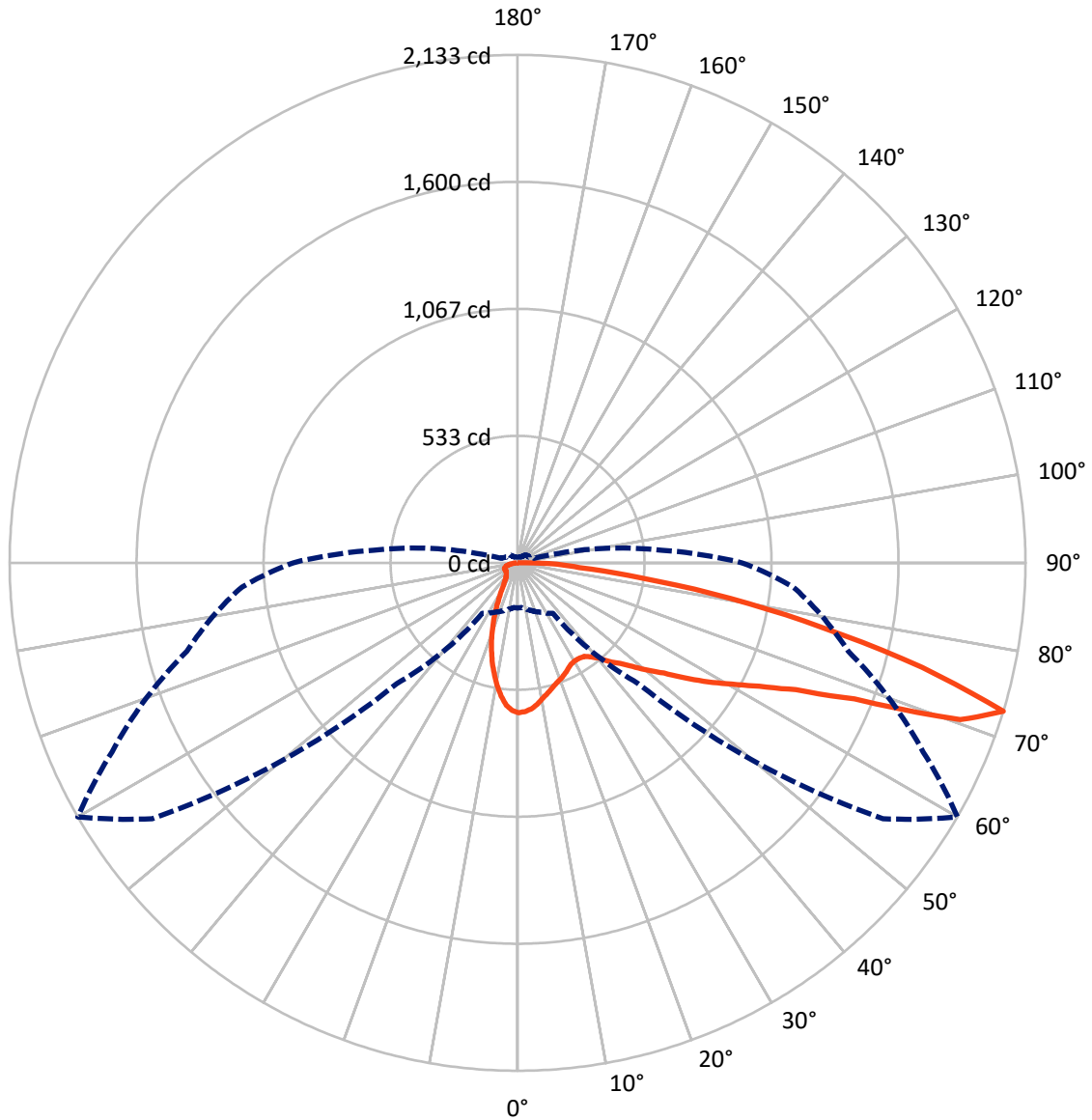
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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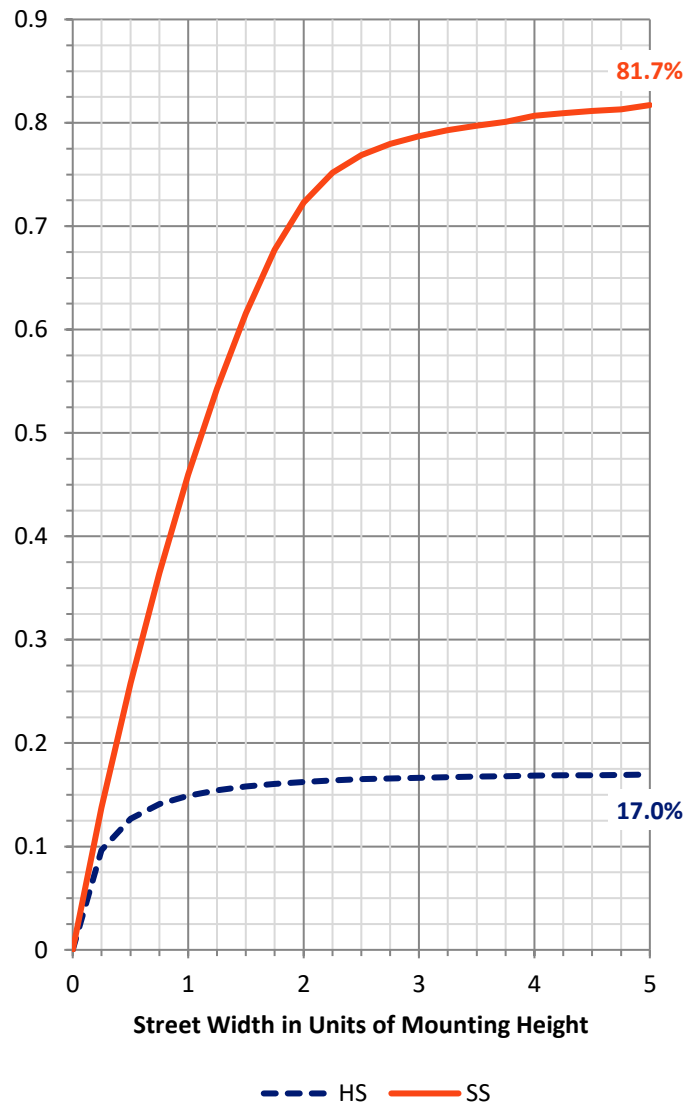
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 388.6 | 0.0 | 388.6 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 1873.6 | 0.0 | 1873.6 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 2262.2 | 0.0 | 2262.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.6 | 2.4 |
| 10°-20° | 123.8 | 5.5 |
| 20°-30° | 158.5 | 7.0 |
| 30°-40° | 202.7 | 9.0 |
| 40°-50° | 278.0 | 12.3 |
| 50°-60° | 402.1 | 17.8 |
| 60°-70° | 551.6 | 24.4 |
| 70°-80° | 413.9 | 18.3 |
| 80°-90° | 76.9 | 3.4 |
| 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° | 2262.2 | 100.0 |
| 0°-180° | 2262.2 | 100.0 |

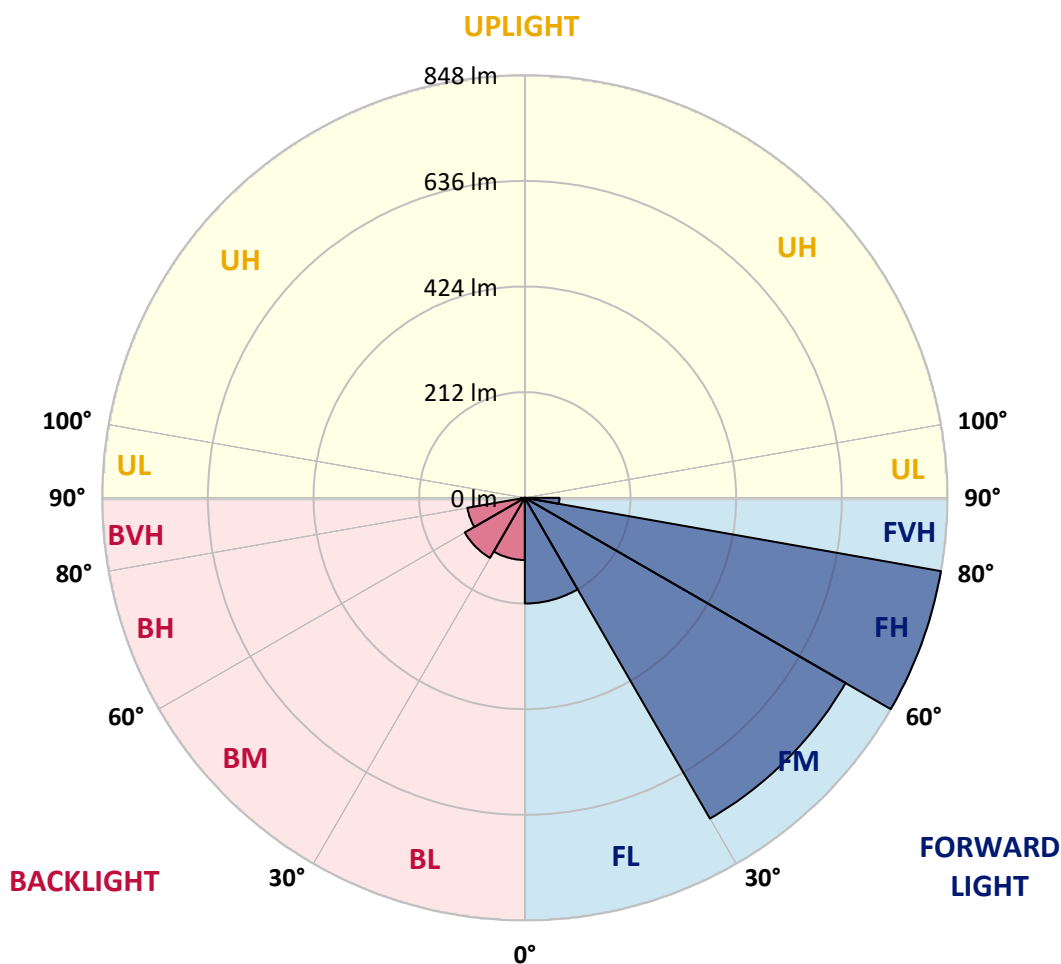


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 212.1 | 9.4 | | | |
| FM (30°-60°) | 743.6 | 32.9 | | | |
| FH (60°-80°) | 848.5 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 69.4 | 3.1 | | | G1/100 |
| BL (0°-30°) | 124.7 | 5.5 | B1/500 | | |
| BM (30°-60°) | 139.3 | 6.2 | B0/220 | | |
| BH (60°-80°) | 117.1 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.5 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 |
| 2.5° | 616.4 | 622.3 | 624.0 | 624.0 | 629.1 | 623.2 | 631.6 | 624.9 | 626.5 | 629.1 | 627.4 |
| 5° | 587.0 | 597.1 | 591.2 | 602.1 | 597.9 | 605.5 | 615.6 | 615.6 | 613.1 | 618.1 | 613.9 |
| 7.5° | 558.3 | 555.0 | 565.1 | 565.1 | 571.8 | 581.9 | 590.3 | 598.8 | 599.6 | 601.3 | 600.4 |
| 10° | 519.6 | 523.8 | 528.9 | 535.6 | 544.0 | 554.1 | 571.8 | 578.5 | 580.2 | 590.3 | 587.8 |
| 12.5° | 487.6 | 493.5 | 496.9 | 510.3 | 517.9 | 532.2 | 552.4 | 561.7 | 562.5 | 576.9 | 576.9 |
| 15° | 464.0 | 467.4 | 475.0 | 480.0 | 496.9 | 517.1 | 536.4 | 544.9 | 554.1 | 569.3 | 565.1 |
| 17.5° | 448.0 | 452.2 | 455.6 | 462.3 | 478.3 | 495.2 | 525.5 | 530.5 | 541.5 | 563.4 | 558.3 |
| 20° | 438.7 | 439.6 | 444.6 | 448.9 | 463.2 | 479.2 | 506.1 | 519.6 | 533.9 | 553.3 | 548.2 |
| 22.5° | 440.4 | 437.1 | 436.2 | 442.1 | 444.6 | 459.8 | 492.6 | 507.0 | 527.2 | 549.9 | 541.5 |
| 25° | 443.8 | 444.6 | 443.0 | 437.9 | 438.7 | 452.2 | 474.1 | 492.6 | 515.4 | 549.1 | 532.2 |
| 27.5° | 452.2 | 456.4 | 449.7 | 444.6 | 439.6 | 444.6 | 467.4 | 480.9 | 506.1 | 553.3 | 531.4 |
| 30° | 460.6 | 464.9 | 463.2 | 455.6 | 445.5 | 443.8 | 459.8 | 476.6 | 501.1 | 556.6 | 531.4 |
| 32.5° | 473.3 | 479.2 | 473.3 | 475.8 | 464.0 | 456.4 | 462.3 | 477.5 | 506.1 | 568.4 | 532.2 |
| 35° | 487.6 | 492.6 | 494.3 | 488.4 | 485.9 | 471.6 | 475.0 | 482.5 | 511.2 | 581.9 | 540.6 |
| 37.5° | 503.6 | 509.5 | 514.5 | 515.4 | 507.0 | 498.5 | 496.9 | 501.1 | 523.8 | 605.5 | 549.9 |
| 40° | 514.5 | 517.9 | 528.0 | 536.4 | 539.0 | 527.2 | 526.3 | 526.3 | 546.5 | 626.5 | 566.8 |
| 42.5° | 533.1 | 531.4 | 545.7 | 560.9 | 565.1 | 558.3 | 560.0 | 566.8 | 578.5 | 656.9 | 593.7 |
| 45° | 542.3 | 540.6 | 557.5 | 582.8 | 602.1 | 598.8 | 600.4 | 603.0 | 613.9 | 704.9 | 639.2 |
| 47.5° | 555.0 | 556.6 | 581.1 | 609.7 | 629.9 | 641.7 | 651.0 | 650.1 | 658.5 | 753.7 | 689.7 |
| 50° | 567.6 | 571.0 | 600.4 | 630.8 | 666.1 | 686.3 | 699.8 | 709.1 | 717.5 | 805.1 | 747.8 |
| 52.5° | 592.0 | 595.4 | 628.2 | 661.1 | 706.5 | 736.0 | 769.7 | 768.9 | 769.7 | 856.4 | 805.9 |
| 55° | 627.4 | 628.2 | 647.6 | 685.5 | 747.0 | 800.9 | 847.2 | 852.2 | 837.9 | 920.4 | 872.4 |
| 57.5° | 667.8 | 671.2 | 688.0 | 716.6 | 779.0 | 863.2 | 933.9 | 944.0 | 905.3 | 972.7 | 933.1 |
| 60° | 705.7 | 708.2 | 734.3 | 767.2 | 834.5 | 941.5 | 1021.5 | 1033.3 | 991.2 | 1036.7 | 996.2 |
| 62.5° | 662.8 | 675.4 | 721.7 | 796.7 | 932.2 | 1060.2 | 1132.7 | 1140.2 | 1074.6 | 1101.5 | 1063.6 |
| 65° | 530.5 | 539.0 | 605.5 | 726.8 | 939.0 | 1275.8 | 1304.5 | 1284.2 | 1189.1 | 1184.9 | 1165.5 |
| 67.5° | 295.6 | 302.3 | 347.8 | 475.0 | 790.8 | 1356.7 | 1674.1 | 1525.9 | 1366.8 | 1310.3 | 1303.6 |
| 70° | 233.3 | 235.0 | 240.8 | 267.0 | 438.7 | 1195.8 | 1965.5 | 1972.3 | 1657.3 | 1483.0 | 1333.1 |
| 72.5° | 189.5 | 188.6 | 206.3 | 229.1 | 259.4 | 717.5 | 1873.7 | 2133.1 | 1879.6 | 1437.5 | 1161.3 |
| 75° | 144.8 | 147.4 | 170.1 | 203.0 | 237.5 | 337.7 | 1397.9 | 1755.0 | 1760.9 | 1339.8 | 979.4 |
| 77.5° | 110.3 | 111.2 | 136.4 | 179.4 | 232.4 | 238.3 | 912.0 | 1307.8 | 1313.7 | 1037.5 | 539.8 |
| 80° | 82.5 | 82.5 | 103.6 | 151.6 | 226.5 | 219.8 | 561.7 | 907.0 | 821.1 | 364.6 | 117.9 |
| 82.5° | 47.2 | 50.5 | 69.1 | 115.4 | 205.5 | 211.4 | 316.6 | 519.6 | 347.0 | 99.4 | 54.7 |
| 85° | 25.3 | 26.1 | 42.1 | 77.5 | 169.3 | 202.1 | 241.7 | 258.5 | 138.1 | 53.1 | 25.3 |
| 87.5° | 9.3 | 9.3 | 19.4 | 39.6 | 107.0 | 149.9 | 192.0 | 165.1 | 79.2 | 24.4 | 12.6 |
| 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° | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 | 629.9 |
| 2.5° | 629.1 | 625.7 | 623.2 | 625.7 | 616.4 | 612.2 | 617.3 | 614.8 | 609.7 | 607.2 | 605.5 |
| 5° | 616.4 | 612.2 | 608.0 | 605.5 | 595.4 | 585.3 | 580.2 | 570.1 | 561.7 | 564.2 | 559.2 |
| 7.5° | 603.0 | 598.8 | 586.1 | 574.3 | 554.1 | 533.9 | 524.6 | 510.3 | 505.3 | 501.1 | 498.5 |
| 10° | 586.1 | 578.5 | 559.2 | 535.6 | 506.1 | 483.4 | 459.8 | 443.0 | 425.3 | 417.7 | 420.2 |
| 12.5° | 565.1 | 560.9 | 530.5 | 494.3 | 453.1 | 415.2 | 387.4 | 360.4 | 336.9 | 324.2 | 320.9 |
| 15° | 555.8 | 543.2 | 499.4 | 451.4 | 399.2 | 352.0 | 310.7 | 263.6 | 235.8 | 222.3 | 222.3 |
| 17.5° | 545.7 | 522.1 | 469.9 | 404.2 | 344.4 | 283.8 | 225.7 | 182.7 | 160.8 | 153.3 | 153.3 |
| 20° | 529.7 | 503.6 | 435.4 | 359.6 | 287.2 | 213.9 | 161.7 | 138.1 | 131.4 | 126.3 | 127.2 |
| 22.5° | 517.9 | 485.9 | 403.4 | 315.8 | 227.4 | 159.2 | 127.2 | 119.6 | 117.1 | 115.4 | 116.2 |
| 25° | 504.4 | 464.9 | 369.7 | 268.6 | 178.5 | 125.5 | 110.3 | 107.0 | 108.6 | 109.5 | 109.5 |
| 27.5° | 493.5 | 447.2 | 335.2 | 218.1 | 134.7 | 106.1 | 99.4 | 98.5 | 101.9 | 103.6 | 104.4 |
| 30° | 485.9 | 431.2 | 301.5 | 171.8 | 107.8 | 94.3 | 90.9 | 90.9 | 95.2 | 96.8 | 97.7 |
| 32.5° | 478.3 | 417.7 | 265.3 | 131.4 | 91.8 | 84.2 | 83.4 | 84.2 | 86.7 | 86.7 | 87.6 |
| 35° | 480.9 | 405.1 | 230.7 | 106.1 | 82.5 | 77.5 | 77.5 | 77.5 | 78.3 | 79.2 | 79.2 |
| 37.5° | 485.9 | 401.7 | 193.7 | 89.3 | 75.8 | 72.4 | 72.4 | 71.6 | 72.4 | 71.6 | 72.4 |
| 40° | 491.0 | 396.6 | 160.0 | 79.2 | 71.6 | 69.1 | 68.2 | 66.5 | 65.7 | 65.7 | 66.5 |
| 42.5° | 512.0 | 403.4 | 131.4 | 72.4 | 68.2 | 66.5 | 64.0 | 62.3 | 61.5 | 61.5 | 61.5 |
| 45° | 539.0 | 416.0 | 108.6 | 69.1 | 65.7 | 61.5 | 59.8 | 58.9 | 57.3 | 58.1 | 58.9 |
| 47.5° | 579.4 | 435.4 | 95.2 | 66.5 | 63.2 | 58.1 | 56.4 | 54.7 | 54.7 | 56.4 | 56.4 |
| 50° | 632.4 | 467.4 | 86.7 | 64.0 | 60.6 | 55.6 | 53.1 | 52.2 | 52.2 | 54.7 | 54.7 |
| 52.5° | 689.7 | 504.4 | 83.4 | 63.2 | 58.1 | 53.1 | 50.5 | 49.7 | 49.7 | 53.1 | 53.1 |
| 55° | 747.0 | 549.9 | 85.9 | 63.2 | 56.4 | 50.5 | 48.0 | 46.3 | 47.2 | 49.7 | 49.7 |
| 57.5° | 810.1 | 598.8 | 98.5 | 63.2 | 54.7 | 49.7 | 46.3 | 43.8 | 44.6 | 45.5 | 45.5 |
| 60° | 879.2 | 662.8 | 120.4 | 63.2 | 53.9 | 48.0 | 43.8 | 40.4 | 40.4 | 41.3 | 41.3 |
| 62.5° | 949.1 | 725.9 | 151.6 | 64.0 | 54.7 | 47.2 | 40.4 | 37.1 | 36.2 | 37.1 | 37.1 |
| 65° | 1040.9 | 827.0 | 182.7 | 64.0 | 57.3 | 45.5 | 37.9 | 33.7 | 32.8 | 32.8 | 33.7 |
| 67.5° | 1169.7 | 899.4 | 141.5 | 61.5 | 58.9 | 45.5 | 35.4 | 31.2 | 29.5 | 29.5 | 29.5 |
| 70° | 1101.5 | 758.8 | 90.1 | 57.3 | 56.4 | 47.2 | 33.7 | 28.6 | 26.9 | 26.1 | 26.1 |
| 72.5° | 943.2 | 607.2 | 72.4 | 53.9 | 52.2 | 46.3 | 32.0 | 26.9 | 24.4 | 23.6 | 23.6 |
| 75° | 756.2 | 479.2 | 63.2 | 48.8 | 45.5 | 38.7 | 29.5 | 24.4 | 22.7 | 21.1 | 21.1 |
| 77.5° | 370.5 | 200.4 | 48.0 | 42.9 | 38.7 | 29.5 | 26.1 | 22.7 | 20.2 | 18.5 | 18.5 |
| 80° | 92.6 | 69.9 | 35.4 | 33.7 | 28.6 | 22.7 | 21.1 | 19.4 | 17.7 | 16.0 | 16.0 |
| 82.5° | 49.7 | 41.3 | 25.3 | 22.7 | 19.4 | 16.0 | 16.0 | 15.2 | 14.3 | 12.6 | 11.8 |
| 85° | 25.3 | 24.4 | 16.8 | 15.2 | 12.6 | 10.1 | 10.9 | 10.9 | 10.1 | 7.6 | 7.6 |
| 87.5° | 13.5 | 13.5 | 8.4 | 6.7 | 5.9 | 5.1 | 5.1 | 5.1 | 4.2 | 3.4 | 3.4 |
| 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)