

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: P401128

Luminaire Tested: **ENC-SA1B-740-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1B-740-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3386 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

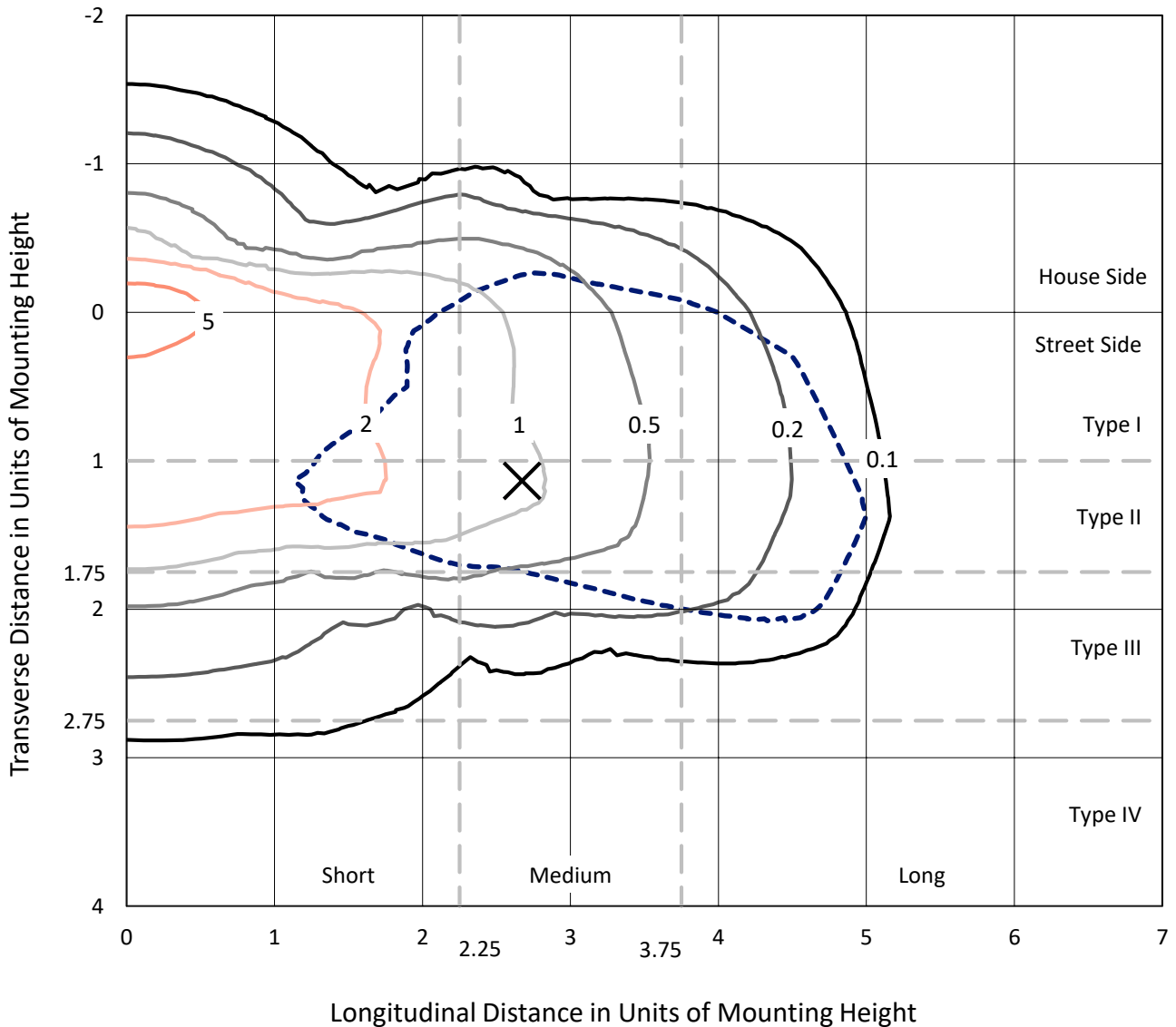
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

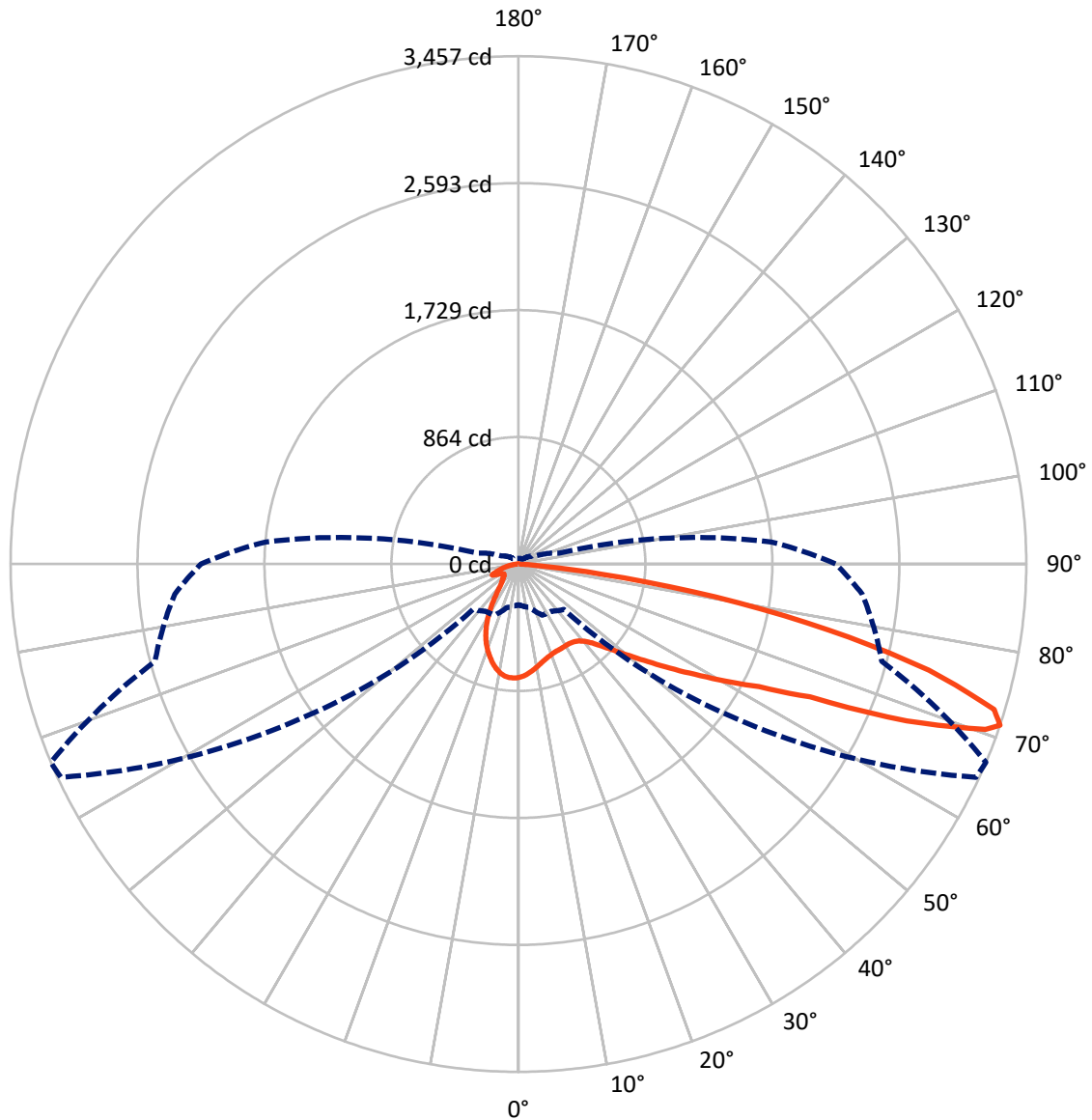


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 693.7 | 0.0 | 693.7 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 2692.3 | 0.0 | 2692.3 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 3386.0 | 0.0 | 3386.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.4 | 2.0 |
| 10°-20° | 168.1 | 5.0 |
| 20°-30° | 227.0 | 6.7 |
| 30°-40° | 299.0 | 8.8 |
| 40°-50° | 425.9 | 12.6 |
| 50°-60° | 650.6 | 19.2 |
| 60°-70° | 812.3 | 24.0 |
| 70°-80° | 655.7 | 19.4 |
| 80°-90° | 79.0 | 2.3 |
| 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° | 3386.0 | 100.0 |
| 0°-180° | 3386.0 | 100.0 |



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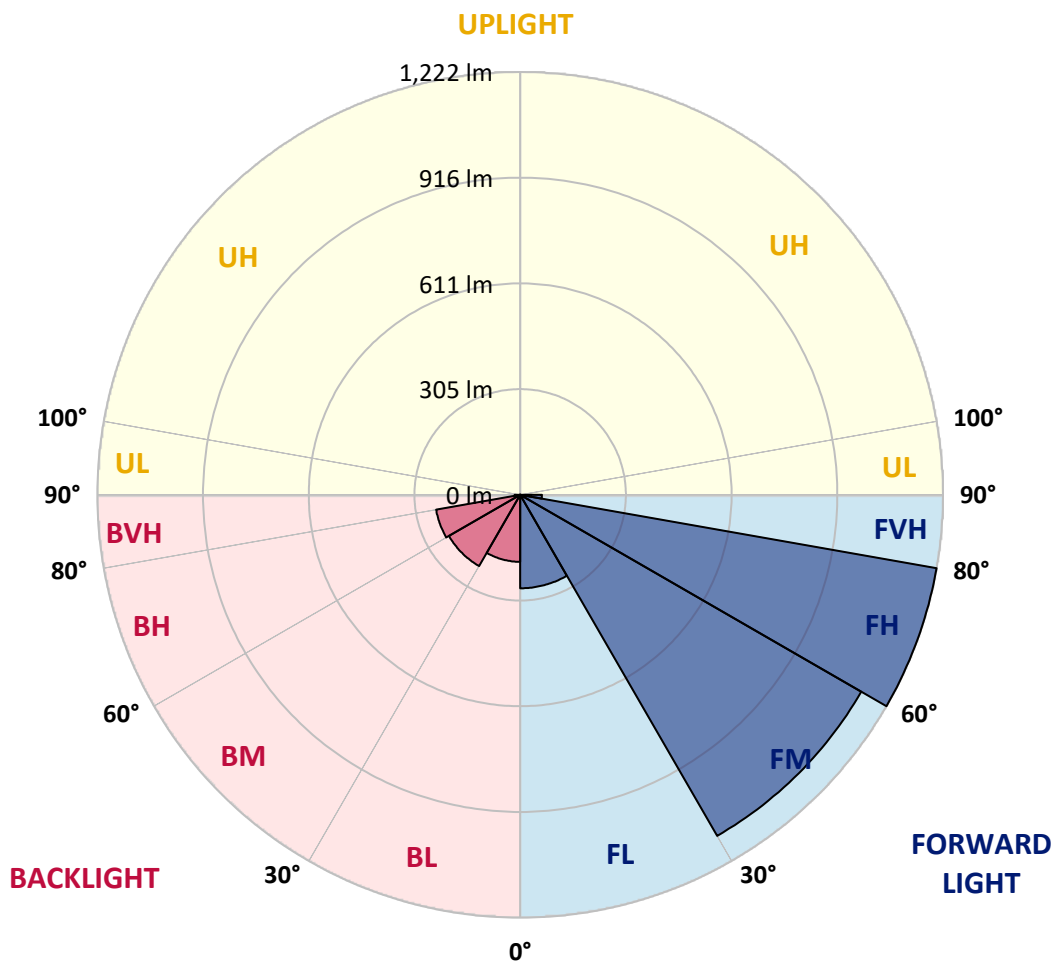
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 270.0 | 8.0 | | | |
| FM | (30°-60°) | 1137.7 | 33.6 | | | |
| FH | (60°-80°) | 1221.5 | 36.1 | | | G1/1800 |
| FVH | (80°-90°) | 63.0 | 1.9 | | | G1/100 |
| BL | (0°-30°) | 193.5 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 237.7 | 7.0 | B1/1000 | | |
| BH | (60°-80°) | 246.5 | 7.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.0 | 0.5 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 |
| 2.5° | 728.2 | 731.6 | 732.1 | 739.0 | 741.4 | 749.2 | 753.6 | 760.9 | 761.9 | 766.2 | 769.2 |
| 5° | 680.9 | 681.4 | 684.4 | 690.2 | 699.5 | 713.6 | 724.3 | 742.4 | 745.8 | 758.4 | 769.7 |
| 7.5° | 638.5 | 641.0 | 645.9 | 654.6 | 665.3 | 681.9 | 698.5 | 723.4 | 728.2 | 748.7 | 770.1 |
| 10° | 609.8 | 612.2 | 616.1 | 625.9 | 636.6 | 655.1 | 675.1 | 703.9 | 709.2 | 737.5 | 768.7 |
| 12.5° | 586.9 | 589.3 | 592.2 | 603.0 | 614.7 | 633.2 | 653.7 | 685.8 | 691.2 | 723.8 | 765.3 |
| 15° | 571.8 | 572.2 | 576.1 | 584.9 | 598.1 | 616.1 | 636.6 | 669.7 | 676.1 | 713.1 | 764.3 |
| 17.5° | 562.5 | 563.5 | 566.9 | 573.7 | 585.4 | 603.0 | 622.9 | 656.6 | 663.9 | 704.3 | 764.8 |
| 20° | 563.0 | 564.0 | 565.9 | 568.3 | 576.6 | 591.7 | 612.7 | 646.8 | 654.1 | 699.0 | 768.2 |
| 22.5° | 573.2 | 573.7 | 574.2 | 570.8 | 573.7 | 584.4 | 604.9 | 640.0 | 647.8 | 696.5 | 772.1 |
| 25° | 592.7 | 592.7 | 591.7 | 583.9 | 577.6 | 582.0 | 600.5 | 637.6 | 645.4 | 694.6 | 776.0 |
| 27.5° | 619.5 | 621.5 | 616.6 | 607.3 | 592.7 | 585.4 | 599.5 | 635.6 | 643.4 | 694.6 | 777.9 |
| 30° | 656.1 | 657.1 | 655.1 | 642.9 | 619.0 | 599.1 | 602.5 | 634.2 | 642.0 | 693.6 | 778.4 |
| 32.5° | 693.1 | 696.1 | 698.5 | 687.8 | 659.0 | 623.4 | 614.2 | 636.1 | 642.9 | 693.1 | 777.0 |
| 35° | 730.7 | 732.6 | 744.3 | 742.4 | 711.2 | 660.0 | 633.2 | 643.9 | 649.8 | 695.6 | 777.9 |
| 37.5° | 762.8 | 767.2 | 784.3 | 797.4 | 773.1 | 709.7 | 665.8 | 661.0 | 664.4 | 707.8 | 783.3 |
| 40° | 797.4 | 803.8 | 829.1 | 854.0 | 843.3 | 772.1 | 712.1 | 691.7 | 690.7 | 730.2 | 796.5 |
| 42.5° | 836.4 | 843.8 | 876.4 | 912.5 | 915.9 | 851.5 | 774.0 | 735.1 | 734.1 | 768.7 | 825.2 |
| 45° | 882.3 | 889.1 | 933.4 | 976.3 | 997.3 | 940.3 | 850.1 | 796.5 | 797.0 | 822.3 | 871.0 |
| 47.5° | 938.8 | 949.5 | 992.4 | 1047.0 | 1084.5 | 1040.2 | 942.2 | 882.3 | 878.4 | 903.2 | 946.1 |
| 50° | 1018.3 | 1027.0 | 1062.6 | 1115.7 | 1181.5 | 1161.1 | 1058.2 | 985.6 | 982.7 | 994.4 | 1046.5 |
| 52.5° | 1101.6 | 1104.5 | 1121.6 | 1176.7 | 1287.3 | 1307.8 | 1201.0 | 1113.8 | 1102.6 | 1108.9 | 1171.3 |
| 55° | 1106.5 | 1112.8 | 1124.0 | 1193.7 | 1382.4 | 1483.8 | 1358.5 | 1264.9 | 1250.3 | 1245.9 | 1313.2 |
| 57.5° | 1005.1 | 1015.3 | 1030.0 | 1120.1 | 1386.3 | 1687.0 | 1582.2 | 1441.3 | 1415.0 | 1393.1 | 1464.7 |
| 60° | 790.1 | 803.3 | 830.1 | 940.8 | 1287.3 | 1803.0 | 1955.6 | 1639.2 | 1615.8 | 1541.3 | 1612.9 |
| 62.5° | 571.3 | 576.6 | 602.5 | 652.2 | 1021.7 | 1809.8 | 2344.6 | 1897.6 | 1839.6 | 1685.6 | 1740.6 |
| 65° | 460.1 | 468.9 | 476.7 | 476.2 | 604.9 | 1605.1 | 2602.9 | 2357.2 | 2182.2 | 1846.9 | 1881.0 |
| 67.5° | 379.2 | 382.1 | 401.2 | 434.3 | 411.4 | 991.4 | 2628.7 | 3028.9 | 2851.5 | 2064.3 | 2047.7 |
| 70° | 316.8 | 317.8 | 336.8 | 396.3 | 393.8 | 511.8 | 2204.2 | 3415.5 | 3372.6 | 2421.1 | 2308.5 |
| 71° | 277.4 | 285.6 | 306.6 | 383.6 | 391.9 | 437.2 | 1872.7 | 3435.9 | 3457.4 | 2561.0 | 2349.0 |
| 72.5° | 218.4 | 218.4 | 248.1 | 351.9 | 395.3 | 403.6 | 1379.9 | 3324.3 | 3386.2 | 2719.9 | 2278.8 |
| 75° | 128.2 | 127.2 | 143.3 | 245.2 | 404.1 | 402.1 | 753.6 | 2762.8 | 2888.1 | 2748.6 | 2109.1 |
| 77.5° | 72.1 | 73.6 | 82.4 | 136.5 | 320.7 | 386.0 | 432.8 | 2011.6 | 2159.3 | 2299.2 | 1783.5 |
| 80° | 33.1 | 35.1 | 41.4 | 66.3 | 189.1 | 333.4 | 309.0 | 1306.3 | 1362.4 | 1381.9 | 842.8 |
| 82.5° | 8.8 | 9.7 | 12.7 | 25.3 | 73.1 | 227.1 | 228.6 | 546.9 | 564.9 | 326.6 | 180.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 27.8 | 64.8 | 98.5 | 81.9 | 43.4 | 37.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 | 1.9 | 1.9 | 1.9 | 2.4 |
| 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° | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 | 772.1 |
| 2.5° | 771.6 | 773.6 | 777.0 | 776.5 | 775.5 | 769.7 | 773.1 | 769.7 | 769.2 | 767.7 | 768.2 |
| 5° | 773.6 | 776.5 | 778.4 | 774.0 | 766.7 | 754.1 | 749.7 | 738.5 | 731.2 | 727.3 | 725.3 |
| 7.5° | 776.5 | 778.4 | 777.5 | 765.3 | 746.3 | 722.4 | 701.9 | 685.8 | 668.8 | 665.8 | 664.9 |
| 10° | 776.5 | 778.4 | 770.6 | 747.2 | 714.6 | 677.0 | 645.9 | 619.5 | 593.2 | 583.5 | 584.9 |
| 12.5° | 774.5 | 775.5 | 757.5 | 719.9 | 672.7 | 621.5 | 577.6 | 534.2 | 500.6 | 480.1 | 476.2 |
| 15° | 773.1 | 771.6 | 739.9 | 685.8 | 622.9 | 559.6 | 493.3 | 434.8 | 394.8 | 368.0 | 364.6 |
| 17.5° | 773.1 | 767.7 | 719.0 | 646.8 | 568.8 | 481.6 | 393.8 | 330.5 | 286.1 | 270.5 | 270.0 |
| 20° | 774.0 | 762.3 | 696.5 | 606.4 | 501.6 | 389.0 | 293.9 | 239.8 | 223.2 | 220.8 | 221.3 |
| 22.5° | 775.0 | 755.0 | 672.2 | 560.6 | 426.5 | 290.0 | 210.1 | 190.6 | 192.0 | 197.9 | 197.4 |
| 25° | 774.0 | 745.3 | 643.4 | 509.4 | 344.6 | 209.1 | 169.6 | 164.8 | 173.5 | 180.4 | 182.3 |
| 27.5° | 771.6 | 732.6 | 612.7 | 448.4 | 262.7 | 164.8 | 148.2 | 147.7 | 156.5 | 162.8 | 162.3 |
| 30° | 764.3 | 717.5 | 577.1 | 384.1 | 189.6 | 140.4 | 133.6 | 135.0 | 140.9 | 146.7 | 146.7 |
| 32.5° | 756.5 | 700.4 | 539.6 | 313.9 | 145.7 | 127.2 | 124.8 | 125.3 | 129.2 | 133.6 | 133.1 |
| 35° | 748.2 | 683.9 | 501.1 | 240.8 | 127.7 | 119.4 | 118.4 | 118.0 | 119.4 | 120.4 | 120.4 |
| 37.5° | 743.3 | 669.2 | 458.7 | 181.3 | 118.0 | 114.5 | 112.6 | 110.6 | 110.2 | 109.2 | 108.2 |
| 40° | 745.3 | 659.5 | 417.7 | 140.4 | 112.1 | 109.2 | 106.3 | 103.3 | 101.4 | 100.4 | 99.9 |
| 42.5° | 758.9 | 656.6 | 372.4 | 120.9 | 106.7 | 104.3 | 100.4 | 95.5 | 93.6 | 93.6 | 93.1 |
| 45° | 790.6 | 665.3 | 330.0 | 111.1 | 101.9 | 98.9 | 92.6 | 89.2 | 87.7 | 88.2 | 88.2 |
| 47.5° | 840.3 | 690.2 | 292.0 | 106.3 | 98.5 | 94.1 | 86.8 | 83.4 | 82.4 | 82.9 | 82.9 |
| 50° | 914.9 | 737.0 | 253.0 | 101.9 | 94.6 | 88.7 | 82.4 | 78.5 | 77.0 | 77.0 | 77.0 |
| 52.5° | 1024.1 | 814.0 | 224.7 | 98.9 | 91.2 | 84.3 | 78.0 | 73.6 | 71.7 | 71.7 | 71.2 |
| 55° | 1157.2 | 914.4 | 214.0 | 97.0 | 86.8 | 80.4 | 73.6 | 69.2 | 66.3 | 65.3 | 65.8 |
| 57.5° | 1302.9 | 1044.6 | 229.6 | 96.5 | 81.9 | 76.0 | 69.2 | 63.9 | 60.9 | 60.4 | 60.0 |
| 60° | 1453.0 | 1173.7 | 274.4 | 94.1 | 78.0 | 70.7 | 64.3 | 59.5 | 56.5 | 55.6 | 55.1 |
| 62.5° | 1582.7 | 1302.4 | 348.5 | 92.1 | 75.1 | 65.8 | 59.0 | 54.6 | 52.2 | 50.7 | 50.7 |
| 65° | 1739.2 | 1450.1 | 461.6 | 94.6 | 73.6 | 60.9 | 54.1 | 50.2 | 48.3 | 46.8 | 46.8 |
| 67.5° | 1952.7 | 1669.0 | 547.4 | 106.3 | 77.0 | 57.0 | 48.7 | 45.8 | 44.4 | 43.4 | 43.4 |
| 70° | 2162.8 | 1791.8 | 380.7 | 124.8 | 85.8 | 53.6 | 43.9 | 41.9 | 40.9 | 40.0 | 40.0 |
| 71° | 2159.8 | 1726.0 | 286.1 | 129.2 | 88.7 | 52.6 | 41.9 | 40.5 | 39.5 | 39.0 | 38.5 |
| 72.5° | 2051.6 | 1569.1 | 205.2 | 125.3 | 87.3 | 49.7 | 39.5 | 38.0 | 37.0 | 37.0 | 36.6 |
| 75° | 1840.1 | 1382.9 | 160.4 | 104.8 | 73.1 | 44.4 | 35.1 | 34.1 | 33.1 | 32.7 | 33.1 |
| 77.5° | 1507.6 | 1106.5 | 126.2 | 82.9 | 55.6 | 36.6 | 31.2 | 29.7 | 29.2 | 28.8 | 29.2 |
| 80° | 692.6 | 482.1 | 92.1 | 64.3 | 41.4 | 29.2 | 26.3 | 25.8 | 25.3 | 24.9 | 24.9 |
| 82.5° | 166.7 | 135.0 | 49.2 | 42.9 | 28.3 | 22.4 | 21.0 | 21.0 | 21.0 | 20.5 | 20.5 |
| 85° | 36.6 | 36.6 | 20.0 | 20.0 | 17.1 | 15.6 | 16.6 | 16.6 | 16.6 | 15.6 | 15.6 |
| 87.5° | 1.9 | 5.8 | 6.3 | 9.3 | 9.7 | 9.3 | 11.2 | 11.7 | 11.2 | 10.7 | 10.2 |
| 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)