

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: P401342

Luminaire Tested: **ENC-SA1C-750-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401342
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-SA1C-750-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA 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: 4456 lumens
Efficiency: N/A
Efficacy: 133.8 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

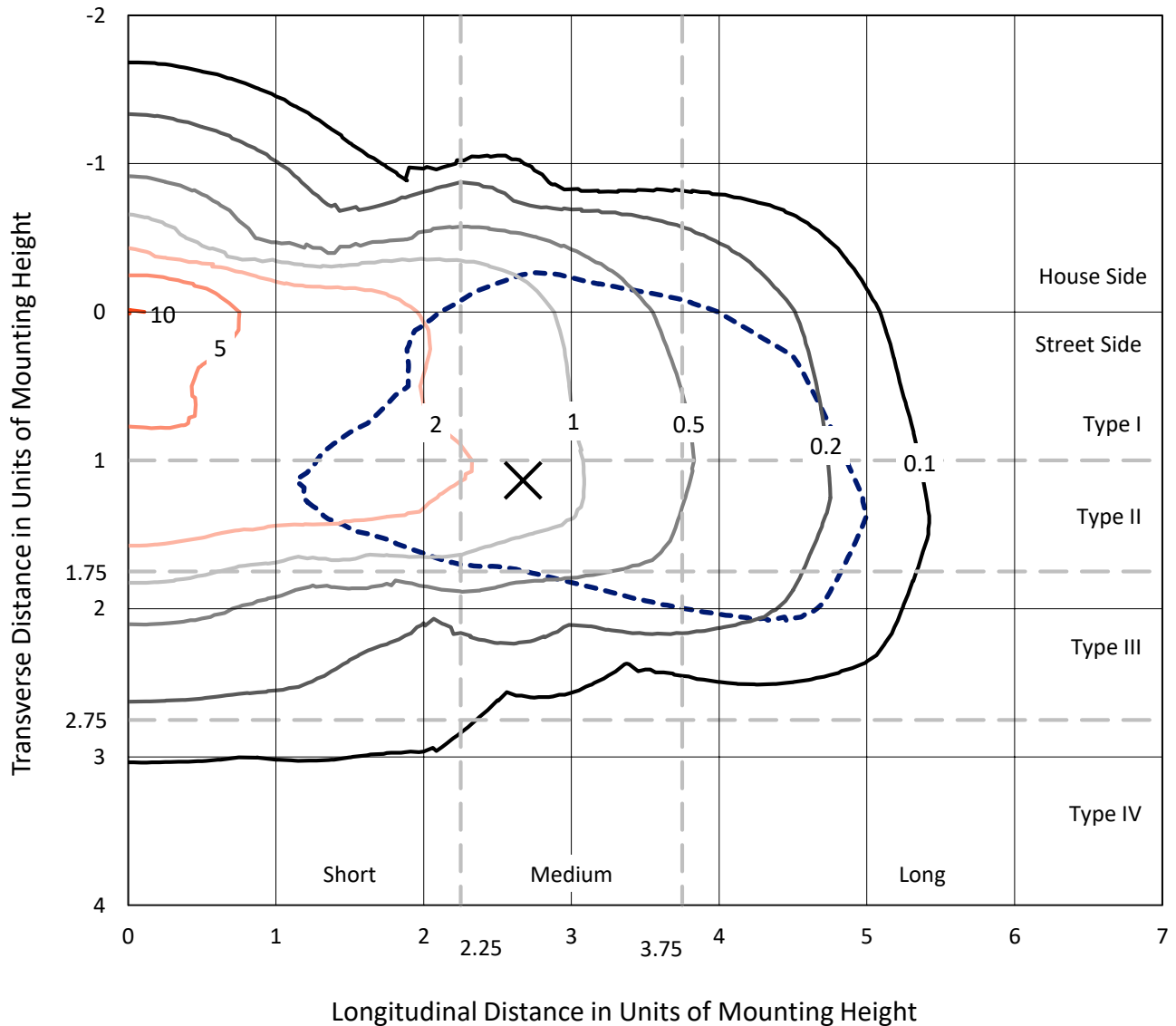
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

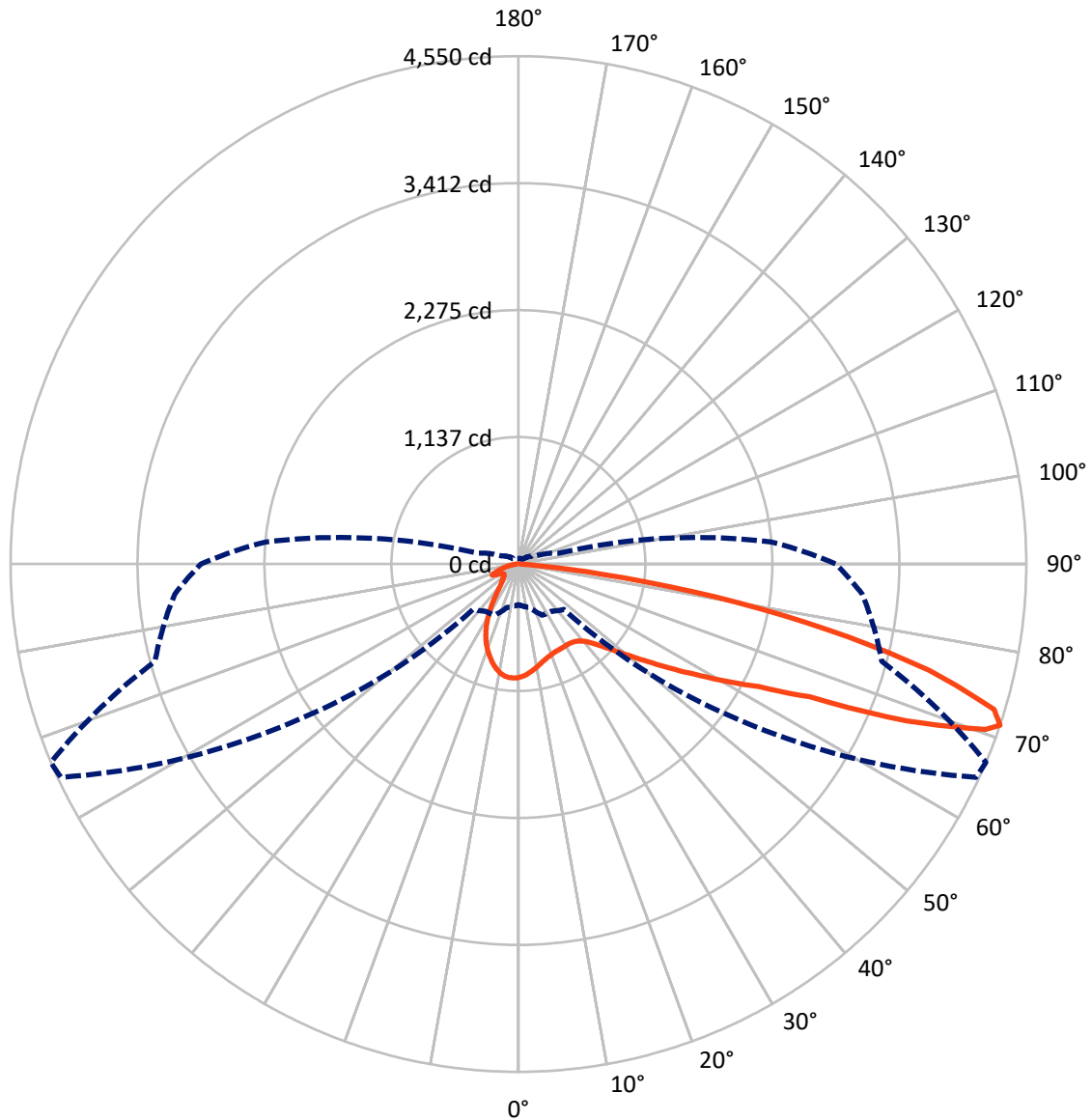


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - Non-Cutoff

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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 | 912.9 | 0.0 | 912.9 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 3543.1 | 0.0 | 3543.1 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 4456.0 | 0.0 | 4456.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.0 | 2.0 |
| 10°-20° | 221.3 | 5.0 |
| 20°-30° | 298.7 | 6.7 |
| 30°-40° | 393.5 | 8.8 |
| 40°-50° | 560.4 | 12.6 |
| 50°-60° | 856.1 | 19.2 |
| 60°-70° | 1069.0 | 24.0 |
| 70°-80° | 862.9 | 19.4 |
| 80°-90° | 104.0 | 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° | 4456.0 | 100.0 |
| 0°-180° | 4456.0 | 100.0 |



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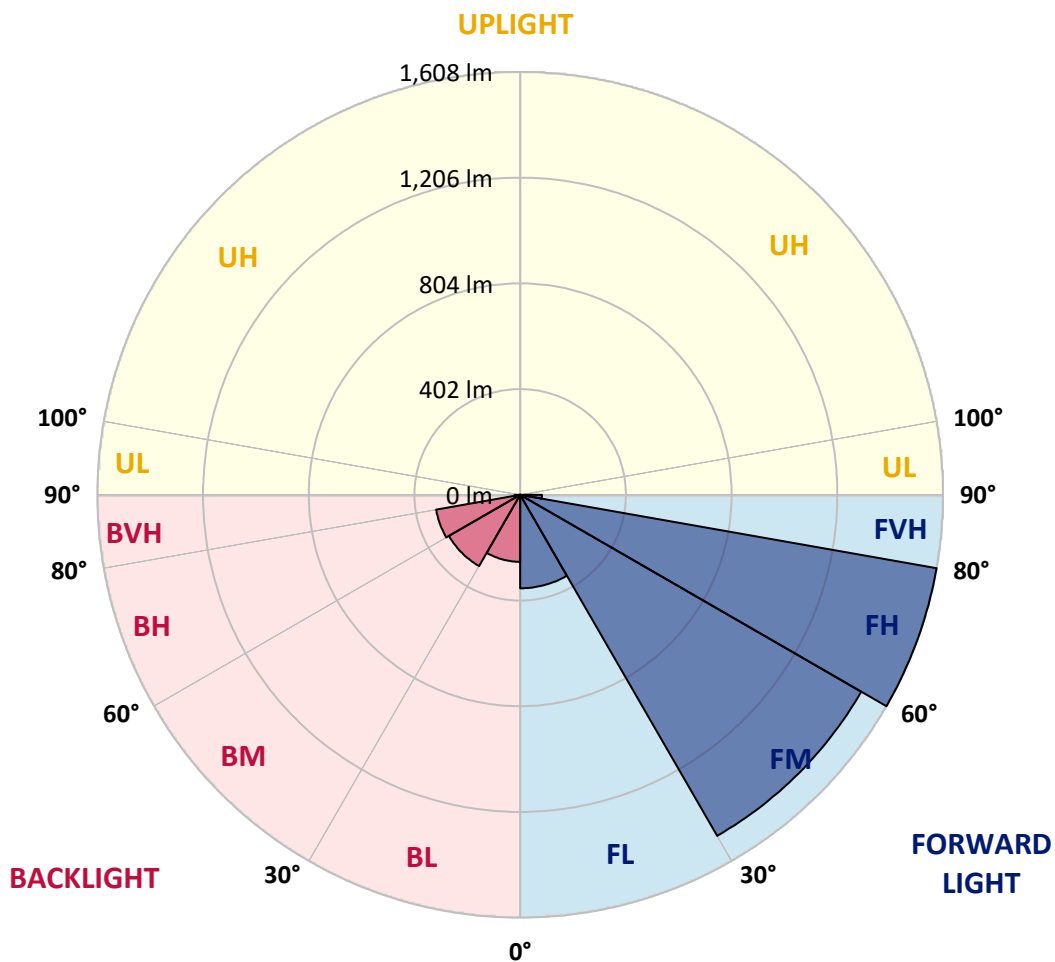
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 355.3 | 8.0 | | | |
| FM | (30°-60°) | 1497.3 | 33.6 | | | |
| FH | (60°-80°) | 1607.5 | 36.1 | | | G1/1800 |
| FVH | (80°-90°) | 82.9 | 1.9 | | | G1/100 |
| BL | (0°-30°) | 254.7 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 312.7 | 7.0 | B1/1000 | | |
| BH | (60°-80°) | 324.4 | 7.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.1 | 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° | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 |
| 2.5° | 958.4 | 962.8 | 963.5 | 972.5 | 975.7 | 985.9 | 991.7 | 1001.3 | 1002.6 | 1008.4 | 1012.2 |
| 5° | 896.1 | 896.8 | 900.6 | 908.3 | 920.5 | 939.1 | 953.2 | 977.0 | 981.4 | 998.1 | 1012.9 |
| 7.5° | 840.3 | 843.5 | 849.9 | 861.5 | 875.6 | 897.4 | 919.2 | 951.9 | 958.4 | 985.3 | 1013.5 |
| 10° | 802.5 | 805.7 | 810.8 | 823.6 | 837.8 | 862.1 | 888.4 | 926.3 | 933.3 | 970.5 | 1011.6 |
| 12.5° | 772.3 | 775.5 | 779.4 | 793.5 | 808.9 | 833.3 | 860.2 | 902.5 | 909.6 | 952.6 | 1007.1 |
| 15° | 752.4 | 753.1 | 758.2 | 769.8 | 787.1 | 810.8 | 837.8 | 881.4 | 889.7 | 938.5 | 1005.8 |
| 17.5° | 740.3 | 741.5 | 746.0 | 755.0 | 770.4 | 793.5 | 819.8 | 864.1 | 873.7 | 926.9 | 1006.5 |
| 20° | 740.9 | 742.2 | 744.7 | 748.0 | 758.9 | 778.7 | 806.3 | 851.2 | 860.9 | 919.9 | 1011.0 |
| 22.5° | 754.4 | 755.0 | 755.6 | 751.2 | 755.0 | 769.1 | 796.1 | 842.2 | 852.5 | 916.7 | 1016.1 |
| 25° | 780.0 | 780.0 | 778.7 | 768.5 | 760.1 | 765.9 | 790.3 | 839.0 | 849.3 | 914.1 | 1021.2 |
| 27.5° | 815.3 | 817.9 | 811.5 | 799.3 | 780.0 | 770.4 | 789.0 | 836.5 | 846.7 | 914.1 | 1023.8 |
| 30° | 863.4 | 864.7 | 862.1 | 846.1 | 814.7 | 788.4 | 792.9 | 834.6 | 844.8 | 912.8 | 1024.4 |
| 32.5° | 912.2 | 916.0 | 919.2 | 905.1 | 867.3 | 820.4 | 808.3 | 837.1 | 846.1 | 912.2 | 1022.5 |
| 35° | 961.6 | 964.1 | 979.5 | 977.0 | 935.9 | 868.5 | 833.3 | 847.4 | 855.1 | 915.4 | 1023.8 |
| 37.5° | 1003.9 | 1009.7 | 1032.1 | 1049.4 | 1017.4 | 934.0 | 876.2 | 869.8 | 874.3 | 931.4 | 1030.8 |
| 40° | 1049.4 | 1057.8 | 1091.1 | 1123.9 | 1109.7 | 1016.1 | 937.2 | 910.2 | 909.0 | 960.9 | 1048.2 |
| 42.5° | 1100.8 | 1110.4 | 1153.4 | 1200.8 | 1205.3 | 1120.6 | 1018.7 | 967.3 | 966.1 | 1011.6 | 1086.0 |
| 45° | 1161.1 | 1170.0 | 1228.4 | 1284.9 | 1312.4 | 1237.4 | 1118.7 | 1048.2 | 1048.8 | 1082.2 | 1146.3 |
| 47.5° | 1235.5 | 1249.6 | 1306.0 | 1377.9 | 1427.3 | 1368.9 | 1240.0 | 1161.1 | 1155.9 | 1188.6 | 1245.1 |
| 50° | 1340.0 | 1351.6 | 1398.4 | 1468.3 | 1554.9 | 1528.0 | 1392.6 | 1297.0 | 1293.2 | 1308.6 | 1377.2 |
| 52.5° | 1449.7 | 1453.6 | 1476.0 | 1548.5 | 1694.1 | 1721.1 | 1580.6 | 1465.8 | 1451.0 | 1459.3 | 1541.4 |
| 55° | 1456.1 | 1464.5 | 1479.2 | 1571.0 | 1819.2 | 1952.6 | 1787.8 | 1664.6 | 1645.4 | 1639.6 | 1728.1 |
| 57.5° | 1322.7 | 1336.2 | 1355.4 | 1474.1 | 1824.3 | 2220.1 | 2082.2 | 1896.8 | 1862.2 | 1833.3 | 1927.6 |
| 60° | 1039.8 | 1057.1 | 1092.4 | 1238.0 | 1694.1 | 2372.8 | 2573.6 | 2157.3 | 2126.5 | 2028.3 | 2122.6 |
| 62.5° | 751.8 | 758.9 | 792.9 | 858.3 | 1344.5 | 2381.8 | 3085.5 | 2497.2 | 2420.9 | 2218.2 | 2290.7 |
| 65° | 605.5 | 617.1 | 627.4 | 626.7 | 796.1 | 2112.4 | 3425.4 | 3102.1 | 2871.9 | 2430.5 | 2475.4 |
| 67.5° | 499.1 | 502.9 | 527.9 | 571.5 | 541.4 | 1304.7 | 3459.4 | 3986.1 | 3752.6 | 2716.6 | 2694.8 |
| 70° | 417.0 | 418.2 | 443.3 | 521.5 | 518.3 | 673.5 | 2900.7 | 4494.8 | 4438.3 | 3186.2 | 3038.0 |
| 71° | 365.0 | 375.9 | 403.5 | 504.8 | 515.7 | 575.4 | 2464.5 | 4521.7 | 4549.9 | 3370.3 | 3091.2 |
| 72.5° | 287.4 | 287.4 | 326.5 | 463.1 | 520.2 | 531.1 | 1816.0 | 4374.8 | 4456.3 | 3579.4 | 2998.9 |
| 75° | 168.7 | 167.4 | 188.6 | 322.7 | 531.8 | 529.2 | 991.7 | 3635.8 | 3800.7 | 3617.2 | 2775.6 |
| 77.5° | 94.9 | 96.9 | 108.4 | 179.6 | 422.1 | 508.0 | 569.6 | 2647.3 | 2841.7 | 3025.8 | 2347.1 |
| 80° | 43.6 | 46.2 | 54.5 | 87.2 | 248.9 | 438.8 | 406.7 | 1719.1 | 1792.9 | 1818.6 | 1109.1 |
| 82.5° | 11.5 | 12.8 | 16.7 | 33.4 | 96.2 | 298.9 | 300.8 | 719.7 | 743.5 | 429.8 | 238.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 36.6 | 85.3 | 129.6 | 107.8 | 57.1 | 48.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.9 | 2.6 | 2.6 | 2.6 | 3.2 |
| 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° | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 |
| 2.5° | 1015.4 | 1018.0 | 1022.5 | 1021.9 | 1020.6 | 1012.9 | 1017.4 | 1012.9 | 1012.2 | 1010.3 | 1011.0 |
| 5° | 1018.0 | 1021.9 | 1024.4 | 1018.7 | 1009.0 | 992.4 | 986.6 | 971.8 | 962.2 | 957.1 | 954.5 |
| 7.5° | 1021.9 | 1024.4 | 1023.1 | 1007.1 | 982.1 | 950.7 | 923.7 | 902.5 | 880.1 | 876.2 | 875.0 |
| 10° | 1021.9 | 1024.4 | 1014.2 | 983.4 | 940.4 | 891.0 | 849.9 | 815.3 | 780.7 | 767.8 | 769.8 |
| 12.5° | 1019.3 | 1020.6 | 996.8 | 947.4 | 885.2 | 817.9 | 760.1 | 703.0 | 658.8 | 631.8 | 626.7 |
| 15° | 1017.4 | 1015.4 | 973.7 | 902.5 | 819.8 | 736.4 | 649.2 | 572.2 | 519.6 | 484.3 | 479.8 |
| 17.5° | 1017.4 | 1010.3 | 946.2 | 851.2 | 748.6 | 633.8 | 518.3 | 434.9 | 376.5 | 356.0 | 355.4 |
| 20° | 1018.7 | 1003.3 | 916.7 | 798.0 | 660.1 | 511.9 | 386.8 | 315.6 | 293.8 | 290.6 | 291.2 |
| 22.5° | 1019.9 | 993.6 | 884.6 | 737.7 | 561.3 | 381.7 | 276.5 | 250.8 | 252.7 | 260.4 | 259.8 |
| 25° | 1018.7 | 980.8 | 846.7 | 670.3 | 453.5 | 275.2 | 223.2 | 216.8 | 228.4 | 237.3 | 239.9 |
| 27.5° | 1015.4 | 964.1 | 806.3 | 590.2 | 345.8 | 216.8 | 195.0 | 194.4 | 205.9 | 214.3 | 213.6 |
| 30° | 1005.8 | 944.2 | 759.5 | 505.5 | 249.5 | 184.7 | 175.8 | 177.7 | 185.4 | 193.1 | 193.1 |
| 32.5° | 995.6 | 921.8 | 710.1 | 413.1 | 191.8 | 167.4 | 164.2 | 164.9 | 170.0 | 175.8 | 175.1 |
| 35° | 984.7 | 900.0 | 659.4 | 316.9 | 168.1 | 157.2 | 155.9 | 155.2 | 157.2 | 158.4 | 158.4 |
| 37.5° | 978.2 | 880.7 | 603.6 | 238.6 | 155.2 | 150.7 | 148.2 | 145.6 | 145.0 | 143.7 | 142.4 |
| 40° | 980.8 | 867.9 | 549.7 | 184.7 | 147.5 | 143.7 | 139.8 | 136.0 | 133.4 | 132.1 | 131.5 |
| 42.5° | 998.8 | 864.1 | 490.1 | 159.1 | 140.5 | 137.3 | 132.1 | 125.7 | 123.2 | 123.2 | 122.5 |
| 45° | 1040.5 | 875.6 | 434.3 | 146.3 | 134.1 | 130.2 | 121.9 | 117.4 | 115.5 | 116.1 | 116.1 |
| 47.5° | 1105.9 | 908.3 | 384.2 | 139.8 | 129.6 | 123.8 | 114.2 | 109.7 | 108.4 | 109.0 | 109.0 |
| 50° | 1204.0 | 969.9 | 332.9 | 134.1 | 124.4 | 116.7 | 108.4 | 103.3 | 101.4 | 101.4 | 101.4 |
| 52.5° | 1347.7 | 1071.3 | 295.7 | 130.2 | 120.0 | 111.0 | 102.6 | 96.9 | 94.3 | 94.3 | 93.7 |
| 55° | 1522.8 | 1203.4 | 281.6 | 127.7 | 114.2 | 105.8 | 96.9 | 91.1 | 87.2 | 86.0 | 86.6 |
| 57.5° | 1714.6 | 1374.7 | 302.1 | 127.0 | 107.8 | 100.1 | 91.1 | 84.0 | 80.2 | 79.5 | 78.9 |
| 60° | 1912.2 | 1544.7 | 361.1 | 123.8 | 102.6 | 93.0 | 84.7 | 78.3 | 74.4 | 73.1 | 72.5 |
| 62.5° | 2082.8 | 1714.0 | 458.7 | 121.2 | 98.8 | 86.6 | 77.6 | 71.8 | 68.6 | 66.7 | 66.7 |
| 65° | 2288.8 | 1908.4 | 607.5 | 124.4 | 96.9 | 80.2 | 71.2 | 66.1 | 63.5 | 61.6 | 61.6 |
| 67.5° | 2569.7 | 2196.4 | 720.4 | 139.8 | 101.4 | 75.1 | 64.1 | 60.3 | 58.4 | 57.1 | 57.1 |
| 70° | 2846.2 | 2358.0 | 501.0 | 164.2 | 112.9 | 70.6 | 57.7 | 55.2 | 53.9 | 52.6 | 52.6 |
| 71° | 2842.3 | 2271.4 | 376.5 | 170.0 | 116.7 | 69.3 | 55.2 | 53.2 | 52.0 | 51.3 | 50.7 |
| 72.5° | 2699.9 | 2064.9 | 270.1 | 164.9 | 114.8 | 65.4 | 52.0 | 50.0 | 48.8 | 48.8 | 48.1 |
| 75° | 2421.5 | 1819.8 | 211.0 | 137.9 | 96.2 | 58.4 | 46.2 | 44.9 | 43.6 | 43.0 | 43.6 |
| 77.5° | 1984.1 | 1456.1 | 166.1 | 109.0 | 73.1 | 48.1 | 41.1 | 39.1 | 38.5 | 37.8 | 38.5 |
| 80° | 911.5 | 634.4 | 121.2 | 84.7 | 54.5 | 38.5 | 34.6 | 34.0 | 33.4 | 32.7 | 32.7 |
| 82.5° | 219.4 | 177.7 | 64.8 | 56.4 | 37.2 | 29.5 | 27.6 | 27.6 | 27.6 | 26.9 | 26.9 |
| 85° | 48.1 | 48.1 | 26.3 | 26.3 | 22.5 | 20.5 | 21.8 | 21.8 | 21.8 | 20.5 | 20.5 |
| 87.5° | 2.6 | 7.7 | 8.3 | 12.2 | 12.8 | 12.2 | 14.8 | 15.4 | 14.8 | 14.1 | 13.5 |
| 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)