

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: P401326

Luminaire Tested: **ENT-SA1C-740-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-740-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - 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

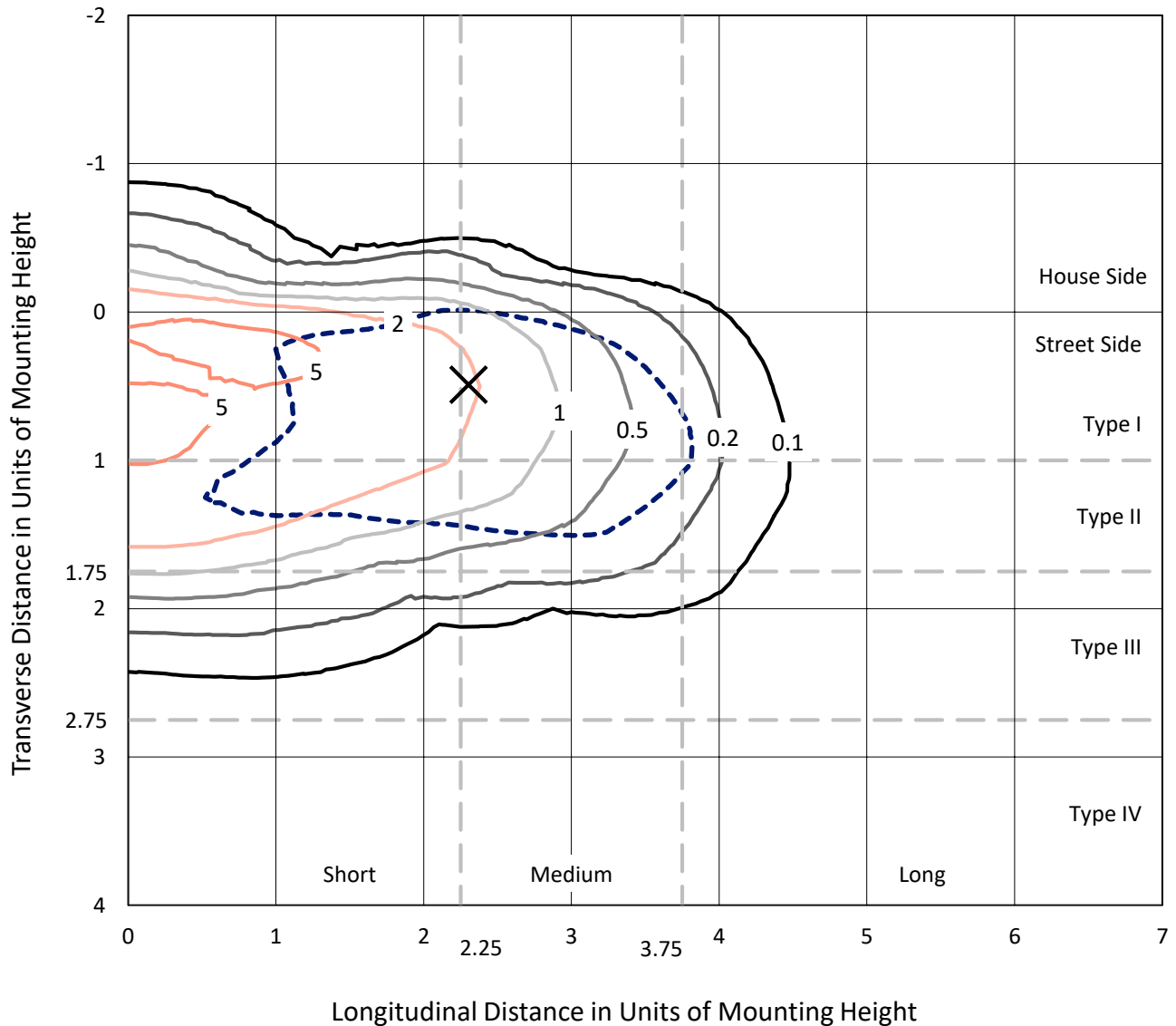


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

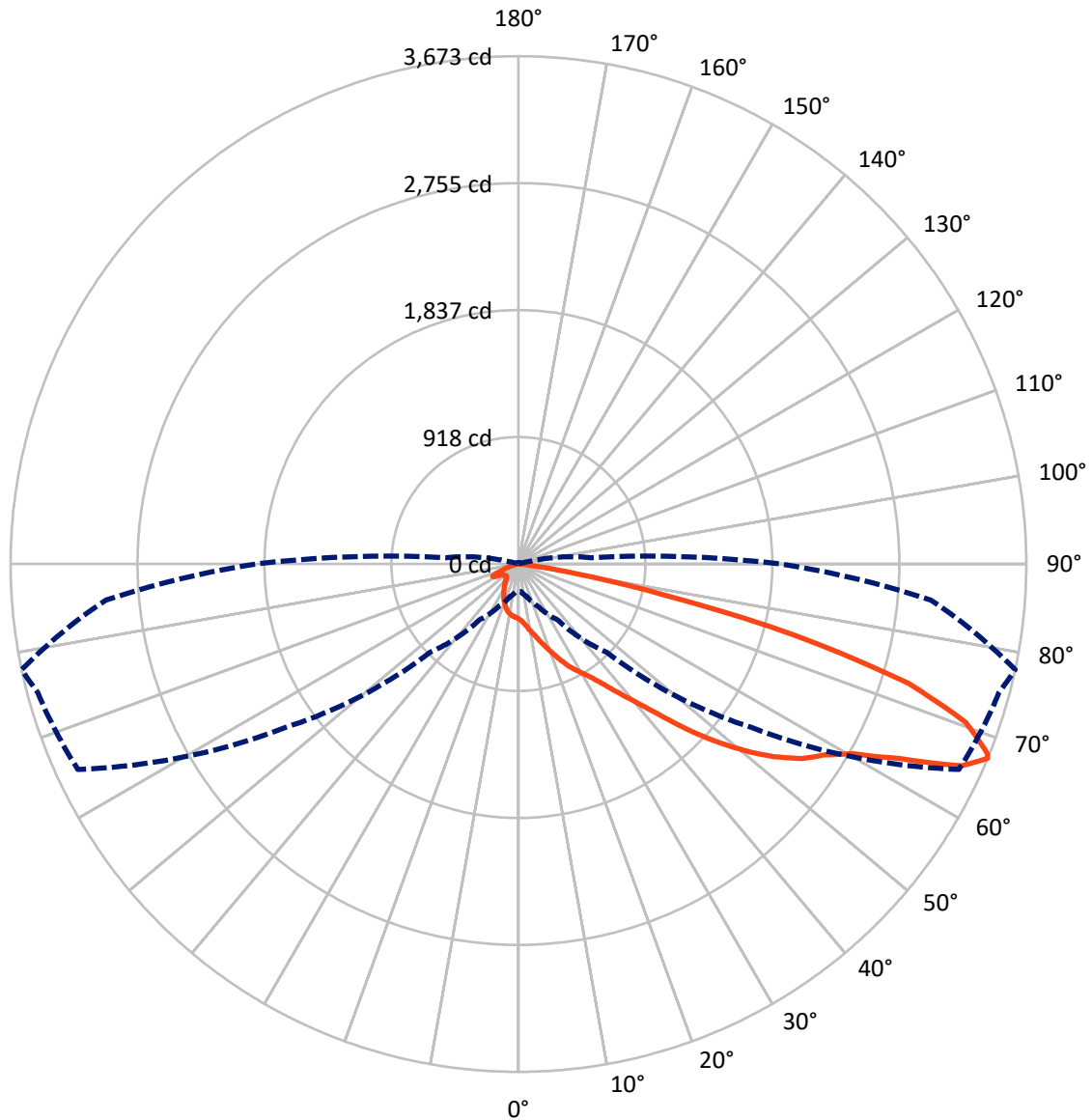


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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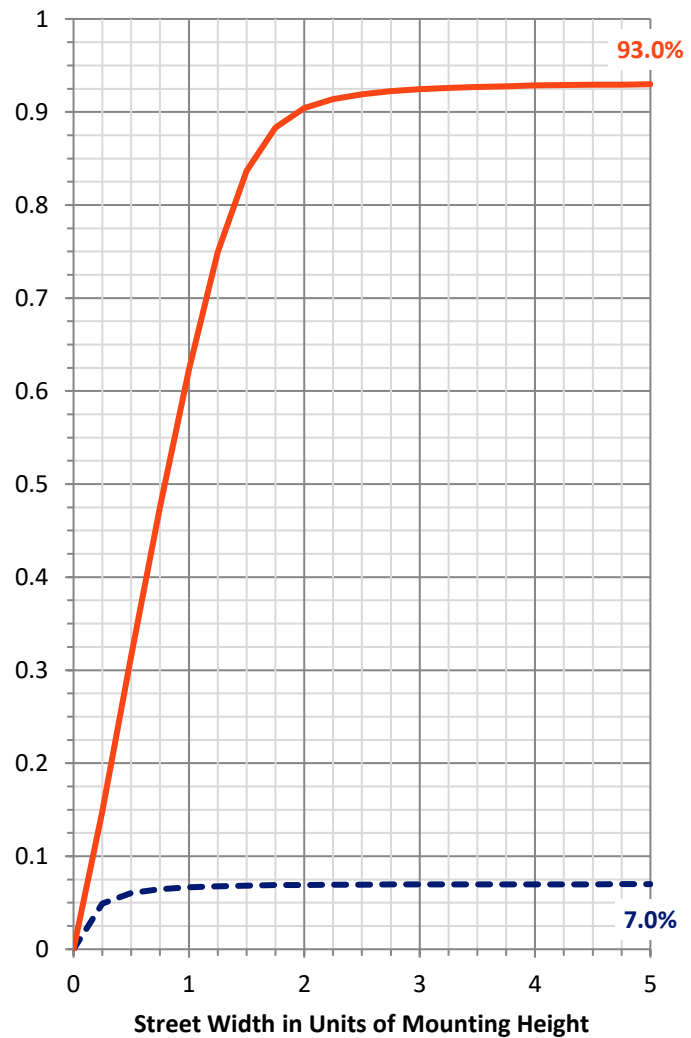
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 240.9 | 0.0 | 240.9 |
| | % Fixture | 7.1 | 0.0 | 7.1 |
| Street Side | Lumens | 3173.1 | 0.0 | 3173.1 |
| | % Fixture | 92.9 | 0.0 | 92.9 |
| Total | Lumens | 3414.0 | 0.0 | 3414.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.2 | 1.1 |
| 10°-20° | 109.4 | 3.2 |
| 20°-30° | 193.4 | 5.7 |
| 30°-40° | 340.9 | 10.0 |
| 40°-50° | 585.9 | 17.2 |
| 50°-60° | 882.0 | 25.8 |
| 60°-70° | 868.0 | 25.4 |
| 70°-80° | 379.3 | 11.1 |
| 80°-90° | 16.8 | 0.5 |
| 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° | 3414.0 | 100.0 |
| 0°-180° | 3414.0 | 100.0 |



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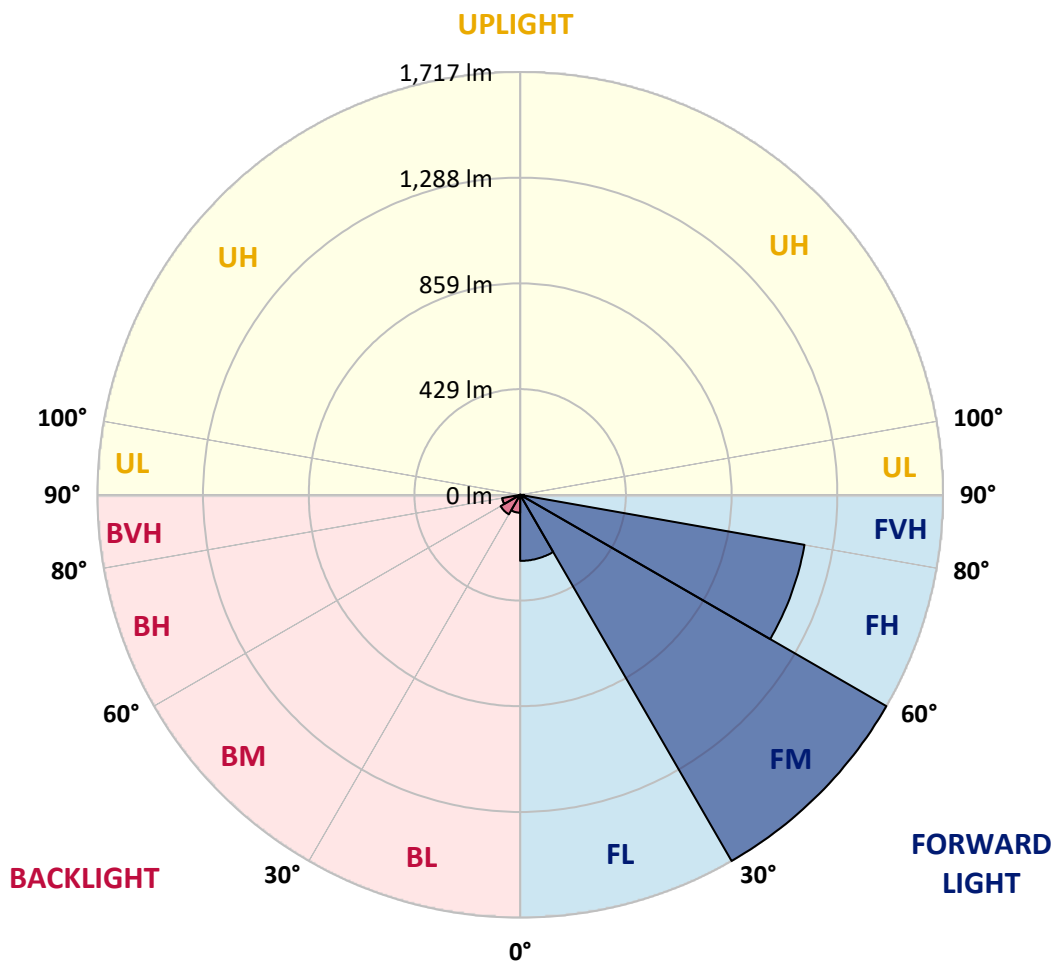
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 268.2 | 7.9 | | | |
| FM (30°-60°) | 1717.3 | 50.3 | | | |
| FH (60°-80°) | 1172.5 | 34.3 | | | G1/1800 |
| FVH (80°-90°) | 15.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 72.8 | 2.1 | B0/110 | | |
| BM (30°-60°) | 91.6 | 2.7 | B0/220 | | |
| BH (60°-80°) | 74.7 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 |
| 2.5° | 454.8 | 456.7 | 454.1 | 452.2 | 447.1 | 440.6 | 434.2 | 424.6 | 414.3 | 410.5 | 404.1 |
| 5° | 510.6 | 510.6 | 510.6 | 505.4 | 500.9 | 488.7 | 474.0 | 459.2 | 440.0 | 432.9 | 418.2 |
| 7.5° | 540.1 | 540.7 | 542.6 | 542.6 | 540.1 | 531.7 | 515.7 | 499.0 | 470.1 | 460.5 | 436.8 |
| 10° | 543.3 | 545.8 | 551.0 | 558.7 | 564.4 | 568.9 | 559.3 | 541.3 | 506.7 | 495.2 | 460.5 |
| 12.5° | 534.9 | 536.2 | 544.5 | 558.7 | 577.3 | 595.9 | 596.5 | 585.6 | 547.1 | 531.1 | 489.4 |
| 15° | 515.7 | 517.6 | 529.8 | 552.2 | 581.1 | 614.5 | 633.7 | 630.5 | 594.6 | 576.0 | 521.5 |
| 17.5° | 484.9 | 486.8 | 502.2 | 535.6 | 577.9 | 626.6 | 667.7 | 683.7 | 641.4 | 623.4 | 554.2 |
| 20° | 483.6 | 484.3 | 490.0 | 515.0 | 565.1 | 633.7 | 701.0 | 738.9 | 698.5 | 679.2 | 592.7 |
| 22.5° | 565.7 | 560.6 | 547.8 | 531.7 | 553.5 | 631.8 | 731.2 | 797.3 | 769.0 | 738.9 | 636.9 |
| 25° | 657.4 | 659.4 | 645.2 | 607.4 | 579.8 | 628.6 | 754.3 | 863.3 | 835.1 | 805.0 | 682.4 |
| 27.5° | 753.6 | 750.4 | 738.3 | 703.6 | 657.4 | 651.7 | 771.0 | 916.6 | 898.6 | 862.0 | 722.9 |
| 30° | 847.3 | 844.7 | 835.7 | 800.5 | 750.4 | 711.3 | 783.8 | 964.7 | 958.9 | 918.5 | 755.6 |
| 32.5° | 954.4 | 958.9 | 947.3 | 901.2 | 840.2 | 792.1 | 811.4 | 1015.3 | 1032.0 | 982.6 | 789.6 |
| 35° | 1078.8 | 1078.8 | 1055.1 | 1012.8 | 949.9 | 882.6 | 866.5 | 1071.1 | 1125.0 | 1071.8 | 843.4 |
| 37.5° | 1181.5 | 1189.8 | 1175.7 | 1114.8 | 1055.7 | 985.2 | 950.6 | 1139.8 | 1239.8 | 1185.9 | 915.9 |
| 40° | 1262.3 | 1276.4 | 1277.0 | 1216.7 | 1162.2 | 1116.0 | 1067.9 | 1236.6 | 1384.1 | 1314.9 | 1002.5 |
| 42.5° | 1337.3 | 1339.9 | 1350.8 | 1316.2 | 1261.6 | 1249.4 | 1200.1 | 1351.4 | 1564.4 | 1482.9 | 1118.0 |
| 45° | 1432.9 | 1438.0 | 1431.6 | 1405.9 | 1359.1 | 1375.2 | 1347.6 | 1497.0 | 1767.1 | 1698.4 | 1253.9 |
| 47.5° | 1573.4 | 1585.5 | 1575.9 | 1529.7 | 1472.7 | 1502.8 | 1482.9 | 1642.0 | 1996.0 | 1912.7 | 1401.5 |
| 50° | 1704.8 | 1714.5 | 1724.7 | 1710.0 | 1652.9 | 1624.0 | 1599.7 | 1795.3 | 2192.3 | 2121.7 | 1546.4 |
| 52.5° | 1719.0 | 1727.9 | 1784.4 | 1836.3 | 1874.2 | 1798.5 | 1722.2 | 1950.5 | 2373.8 | 2314.8 | 1679.2 |
| 55° | 1627.2 | 1633.0 | 1727.3 | 1829.9 | 2003.7 | 2029.4 | 1902.4 | 2103.8 | 2525.8 | 2485.4 | 1768.3 |
| 57.5° | 1372.0 | 1396.3 | 1530.4 | 1687.5 | 1971.7 | 2166.6 | 2158.3 | 2282.1 | 2624.6 | 2606.0 | 1883.1 |
| 60° | 901.2 | 928.1 | 1088.5 | 1326.4 | 1735.6 | 2130.1 | 2439.2 | 2549.6 | 2763.1 | 2783.7 | 2084.5 |
| 62.5° | 466.9 | 498.4 | 639.5 | 850.5 | 1257.8 | 1854.9 | 2534.8 | 2988.9 | 3028.7 | 3098.6 | 2443.7 |
| 65° | 266.8 | 273.2 | 343.8 | 498.4 | 778.7 | 1328.3 | 2420.0 | 3423.8 | 3378.3 | 3520.0 | 2902.3 |
| 67° | 198.2 | 198.2 | 247.6 | 338.7 | 493.2 | 903.1 | 2064.0 | 3515.5 | 3598.3 | 3673.3 | 2994.7 |
| 67.5° | 177.7 | 187.3 | 229.6 | 312.4 | 442.6 | 801.1 | 1931.3 | 3491.1 | 3612.4 | 3659.2 | 2962.6 |
| 70° | 121.9 | 128.3 | 164.8 | 223.8 | 298.3 | 416.9 | 1266.1 | 3087.7 | 3480.2 | 3432.8 | 2684.9 |
| 72.5° | 73.1 | 75.7 | 109.0 | 161.0 | 222.6 | 223.2 | 690.8 | 2343.7 | 2949.2 | 2948.5 | 2192.9 |
| 75° | 45.5 | 48.1 | 64.1 | 107.8 | 155.9 | 139.8 | 319.4 | 1594.5 | 2117.9 | 2076.9 | 1469.4 |
| 77.5° | 25.7 | 29.5 | 38.5 | 59.0 | 98.8 | 89.2 | 134.7 | 893.5 | 1144.3 | 1073.7 | 729.9 |
| 80° | 10.3 | 12.2 | 21.8 | 28.2 | 55.8 | 53.2 | 55.2 | 314.3 | 463.1 | 417.6 | 244.4 |
| 82.5° | 2.6 | 3.2 | 7.7 | 13.5 | 21.8 | 21.8 | 17.3 | 85.9 | 109.7 | 102.0 | 62.9 |
| 85° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.3 | 4.5 | 9.6 | 11.5 | 13.5 | 10.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.3 | 1.9 | 1.9 | 1.9 | 1.9 |
| 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° | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 | 396.4 |
| 2.5° | 399.0 | 394.5 | 385.5 | 375.9 | 366.2 | 358.5 | 352.1 | 343.1 | 341.9 | 341.9 | 341.9 |
| 5° | 407.3 | 397.0 | 376.5 | 356.0 | 335.5 | 316.9 | 303.4 | 292.5 | 282.9 | 279.7 | 282.2 |
| 7.5° | 419.5 | 400.9 | 365.0 | 329.0 | 297.0 | 270.7 | 251.4 | 236.0 | 229.0 | 225.1 | 221.9 |
| 10° | 435.5 | 406.6 | 349.6 | 297.0 | 256.6 | 225.1 | 204.6 | 189.9 | 182.8 | 178.3 | 179.0 |
| 12.5° | 452.8 | 411.1 | 330.3 | 262.3 | 217.4 | 188.6 | 171.3 | 159.1 | 147.5 | 140.5 | 142.4 |
| 15° | 470.1 | 414.3 | 306.6 | 230.3 | 187.3 | 161.6 | 137.3 | 115.5 | 107.8 | 106.5 | 105.8 |
| 17.5° | 489.4 | 413.7 | 280.3 | 200.1 | 161.6 | 125.7 | 101.3 | 98.8 | 98.1 | 98.1 | 97.5 |
| 20° | 509.3 | 410.5 | 250.1 | 175.1 | 136.0 | 95.6 | 91.7 | 90.4 | 88.5 | 87.9 | 87.2 |
| 22.5° | 531.1 | 404.7 | 222.6 | 153.3 | 101.3 | 87.2 | 82.1 | 78.3 | 75.0 | 73.1 | 73.8 |
| 25° | 551.0 | 393.8 | 195.6 | 132.8 | 86.6 | 78.3 | 71.2 | 65.4 | 62.2 | 59.7 | 60.3 |
| 27.5° | 564.4 | 374.6 | 172.5 | 107.1 | 79.5 | 69.3 | 60.9 | 55.2 | 50.7 | 48.7 | 48.7 |
| 30° | 565.7 | 347.0 | 152.0 | 87.9 | 72.5 | 60.9 | 52.0 | 45.5 | 43.0 | 41.7 | 41.0 |
| 32.5° | 564.4 | 318.8 | 136.6 | 80.8 | 66.1 | 53.2 | 44.3 | 39.8 | 37.2 | 35.9 | 35.9 |
| 35° | 570.8 | 289.9 | 122.5 | 74.4 | 59.0 | 46.8 | 39.1 | 34.6 | 32.7 | 31.4 | 31.4 |
| 37.5° | 590.1 | 270.0 | 107.8 | 68.0 | 52.6 | 41.0 | 35.3 | 31.4 | 29.5 | 28.2 | 28.2 |
| 40° | 616.4 | 253.4 | 89.8 | 61.6 | 46.2 | 37.2 | 32.1 | 28.9 | 26.3 | 25.0 | 25.0 |
| 42.5° | 662.6 | 246.9 | 75.0 | 55.2 | 40.4 | 33.4 | 29.5 | 25.7 | 23.1 | 21.8 | 21.8 |
| 45° | 731.2 | 250.1 | 68.6 | 49.4 | 36.6 | 30.1 | 26.3 | 22.4 | 19.9 | 19.2 | 19.2 |
| 47.5° | 806.9 | 263.6 | 64.1 | 44.3 | 33.4 | 28.2 | 23.7 | 19.9 | 17.3 | 16.7 | 16.7 |
| 50° | 891.5 | 284.8 | 60.3 | 39.1 | 30.1 | 25.7 | 21.2 | 17.3 | 15.4 | 14.8 | 14.8 |
| 52.5° | 972.4 | 311.7 | 56.4 | 35.3 | 28.2 | 23.1 | 18.6 | 15.4 | 14.1 | 13.5 | 13.5 |
| 55° | 1033.9 | 329.0 | 53.2 | 32.7 | 26.3 | 21.2 | 16.7 | 14.8 | 12.8 | 12.2 | 12.2 |
| 57.5° | 1119.9 | 357.9 | 49.4 | 29.5 | 23.7 | 19.2 | 15.4 | 13.5 | 11.5 | 11.5 | 11.5 |
| 60° | 1294.3 | 435.5 | 43.6 | 26.9 | 21.2 | 17.3 | 14.8 | 12.2 | 10.9 | 10.3 | 10.3 |
| 62.5° | 1608.6 | 563.8 | 37.8 | 25.0 | 18.6 | 15.4 | 12.8 | 10.9 | 9.6 | 8.3 | 8.3 |
| 65° | 1911.4 | 617.0 | 32.1 | 21.8 | 16.7 | 13.5 | 11.5 | 9.6 | 7.1 | 5.8 | 5.8 |
| 67° | 1894.7 | 527.9 | 26.9 | 18.6 | 14.1 | 12.2 | 9.6 | 7.7 | 5.1 | 3.2 | 3.2 |
| 67.5° | 1849.8 | 491.3 | 26.3 | 18.0 | 13.5 | 11.5 | 9.6 | 7.1 | 4.5 | 2.6 | 2.6 |
| 70° | 1572.1 | 343.8 | 20.5 | 14.1 | 11.5 | 10.3 | 7.7 | 5.1 | 2.6 | 1.3 | 1.3 |
| 72.5° | 1277.0 | 272.6 | 16.0 | 11.5 | 9.6 | 7.7 | 6.4 | 3.2 | 1.9 | 0.6 | 0.6 |
| 75° | 903.1 | 167.4 | 14.1 | 10.3 | 7.7 | 5.8 | 5.1 | 3.2 | 1.9 | 1.3 | 0.6 |
| 77.5° | 445.8 | 77.0 | 11.5 | 9.0 | 7.1 | 5.8 | 4.5 | 3.8 | 3.2 | 2.6 | 1.3 |
| 80° | 130.8 | 25.0 | 7.7 | 6.4 | 6.4 | 5.8 | 5.1 | 4.5 | 3.8 | 3.2 | 1.9 |
| 82.5° | 29.5 | 9.0 | 2.6 | 3.2 | 4.5 | 4.5 | 4.5 | 3.2 | 2.6 | 1.3 | 0.6 |
| 85° | 3.8 | 1.9 | 1.9 | 1.9 | 2.6 | 2.6 | 1.9 | 1.3 | 1.3 | 0.0 | 0.0 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.9 | 1.9 | 1.9 | 1.3 | 0.6 | 0.6 | 0.0 | 0.0 |
| 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)