

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: P401279

Luminaire Tested: **ENC-SA1C-730-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401279
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: ENC-SA1C-730-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 3109 lumens
Efficiency: N/A
Efficacy: 93.4 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

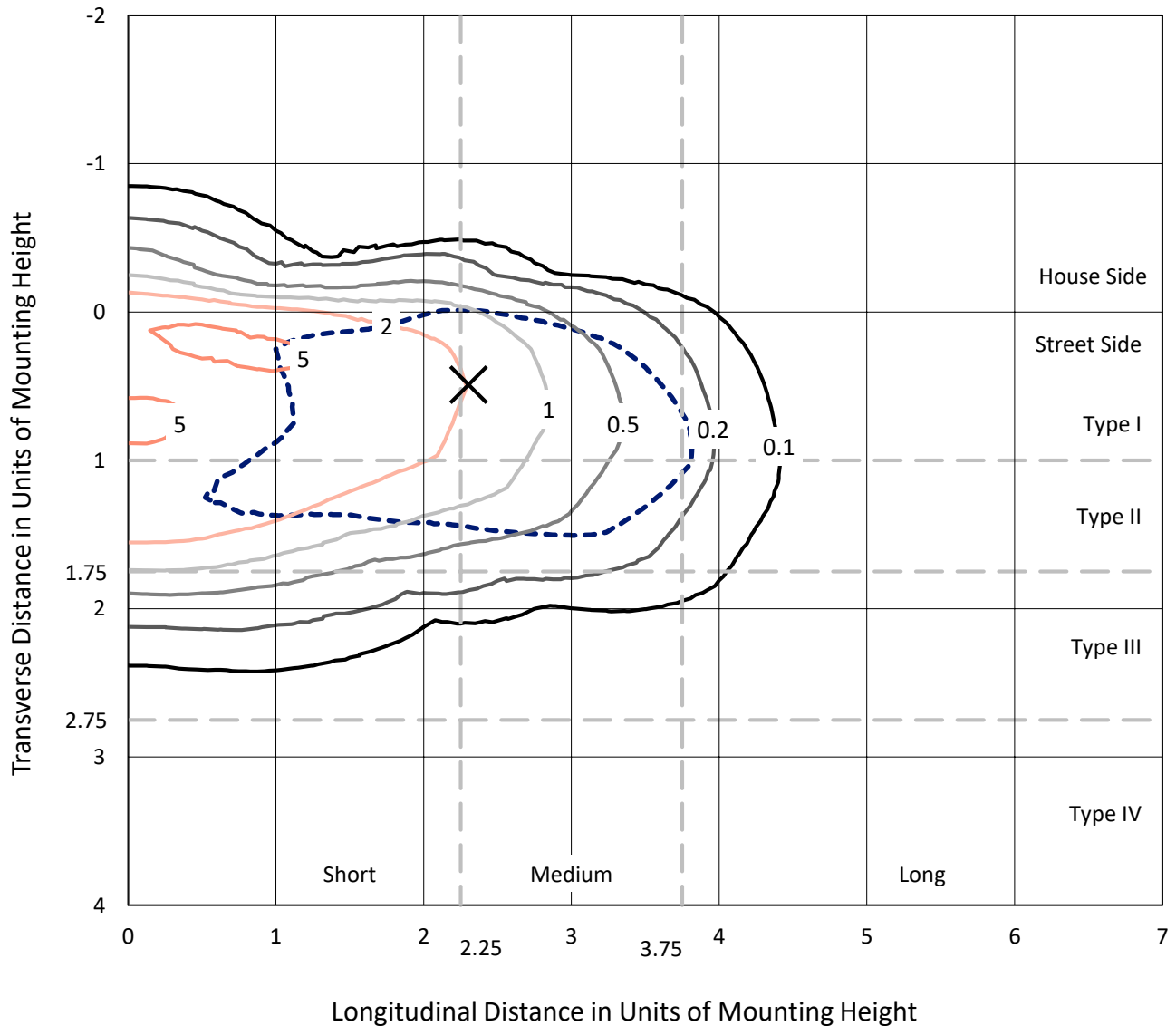


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

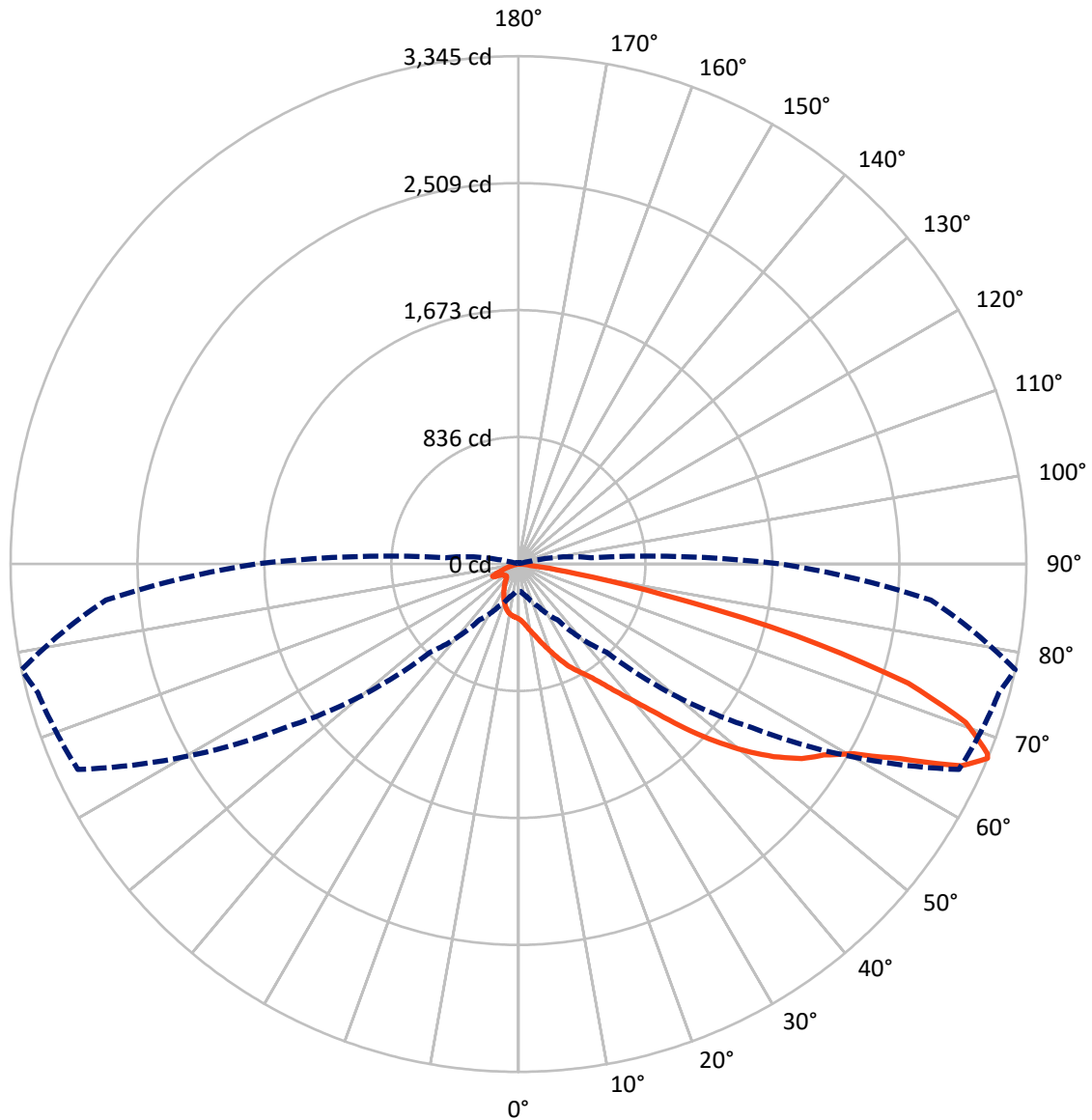


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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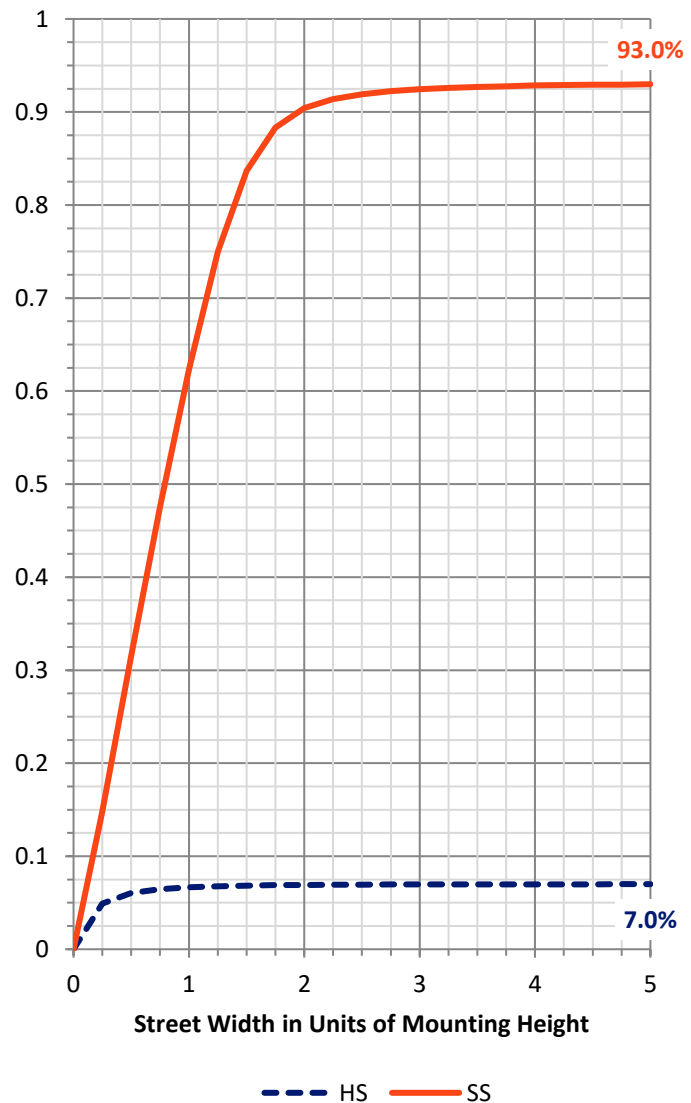
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 219.4 | 0.0 | 219.4 |
| | % Fixture | 7.1 | 0.0 | 7.1 |
| Street Side | Lumens | 2889.7 | 0.0 | 2889.7 |
| | % Fixture | 92.9 | 0.0 | 92.9 |
| Total | Lumens | 3109.0 | 0.0 | 3109.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.8 | 1.1 |
| 10°-20° | 99.7 | 3.2 |
| 20°-30° | 176.1 | 5.7 |
| 30°-40° | 310.5 | 10.0 |
| 40°-50° | 533.6 | 17.2 |
| 50°-60° | 803.2 | 25.8 |
| 60°-70° | 790.4 | 25.4 |
| 70°-80° | 345.4 | 11.1 |
| 80°-90° | 15.3 | 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° | 3109.0 | 100.0 |
| 0°-180° | 3109.0 | 100.0 |



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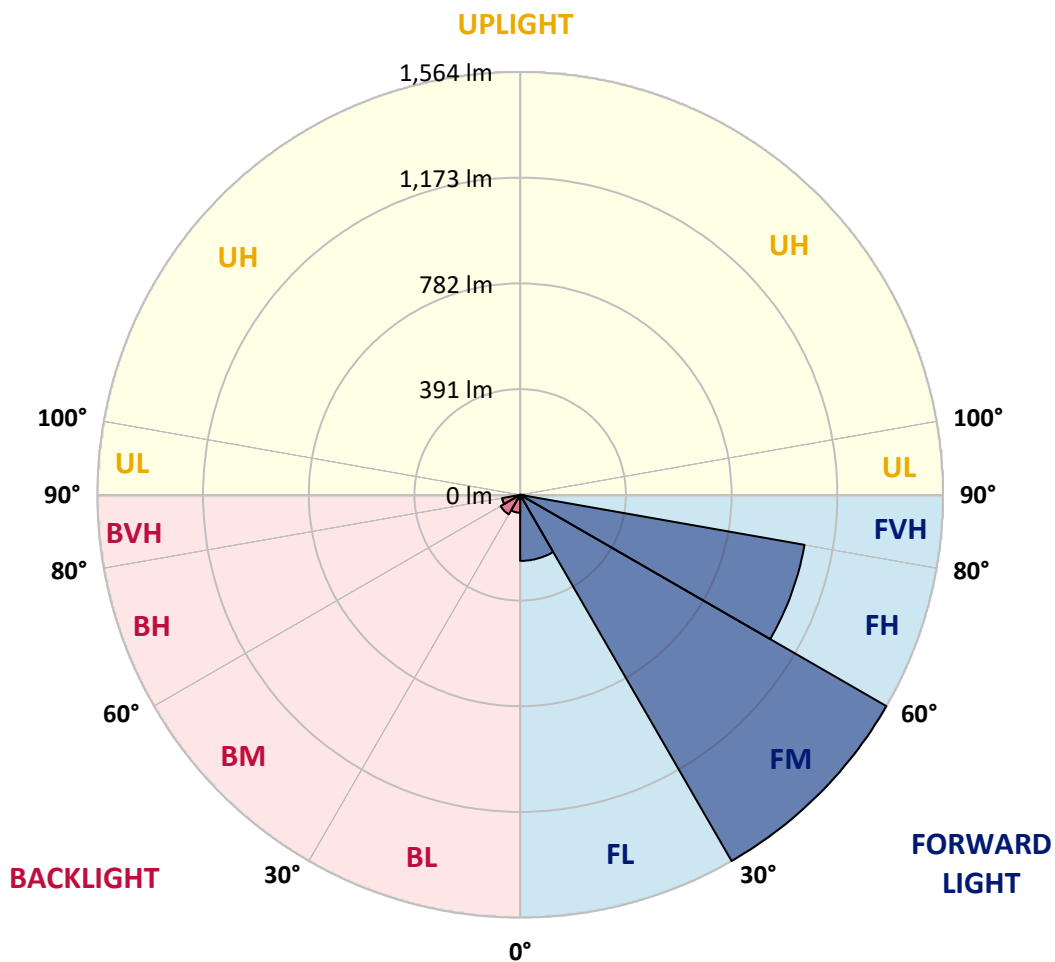
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 244.3 | 7.9 | | | |
| FM (30°-60°) | 1563.9 | 50.3 | | | |
| FH (60°-80°) | 1067.8 | 34.3 | | | G1/1800 |
| FVH (80°-90°) | 13.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 66.3 | 2.1 | B0/110 | | |
| BM (30°-60°) | 83.5 | 2.7 | B0/220 | | |
| BH (60°-80°) | 68.0 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 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° | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 |
| 2.5° | 414.1 | 415.9 | 413.5 | 411.8 | 407.1 | 401.3 | 395.4 | 386.7 | 377.3 | 373.8 | 368.0 |
| 5° | 464.9 | 464.9 | 464.9 | 460.3 | 456.2 | 445.1 | 431.6 | 418.2 | 400.7 | 394.3 | 380.8 |
| 7.5° | 491.8 | 492.4 | 494.1 | 494.1 | 491.8 | 484.2 | 469.6 | 454.4 | 428.1 | 419.4 | 397.8 |
| 10° | 494.7 | 497.1 | 501.7 | 508.7 | 514.0 | 518.1 | 509.3 | 493.0 | 461.4 | 450.9 | 419.4 |
| 12.5° | 487.1 | 488.3 | 495.9 | 508.7 | 525.7 | 542.6 | 543.2 | 533.3 | 498.2 | 483.6 | 445.7 |
| 15° | 469.6 | 471.4 | 482.5 | 502.9 | 529.2 | 559.6 | 577.1 | 574.2 | 541.5 | 524.5 | 474.9 |
| 17.5° | 441.6 | 443.3 | 457.3 | 487.7 | 526.3 | 570.7 | 608.0 | 622.6 | 584.1 | 567.7 | 504.7 |
| 20° | 440.4 | 441.0 | 446.3 | 469.0 | 514.6 | 577.1 | 638.4 | 672.9 | 636.1 | 618.6 | 539.7 |
| 22.5° | 515.2 | 510.5 | 498.8 | 484.2 | 504.1 | 575.3 | 665.9 | 726.0 | 700.3 | 672.9 | 580.0 |
| 25° | 598.7 | 600.5 | 587.6 | 553.1 | 528.0 | 572.4 | 686.9 | 786.2 | 760.5 | 733.0 | 621.5 |
| 27.5° | 686.3 | 683.4 | 672.3 | 640.8 | 598.7 | 593.4 | 702.1 | 834.7 | 818.3 | 785.0 | 658.3 |
| 30° | 771.6 | 769.3 | 761.1 | 729.0 | 683.4 | 647.8 | 713.8 | 878.5 | 873.2 | 836.4 | 688.1 |
| 32.5° | 869.1 | 873.2 | 862.7 | 820.7 | 765.2 | 721.4 | 738.9 | 924.6 | 939.8 | 894.8 | 719.0 |
| 35° | 982.5 | 982.5 | 960.8 | 922.3 | 865.0 | 803.7 | 789.1 | 975.4 | 1024.5 | 976.0 | 768.1 |
| 37.5° | 1075.9 | 1083.5 | 1070.7 | 1015.2 | 961.4 | 897.2 | 865.6 | 1037.9 | 1129.1 | 1080.0 | 834.1 |
| 40° | 1149.5 | 1162.4 | 1162.9 | 1108.0 | 1058.4 | 1016.3 | 972.5 | 1126.1 | 1260.5 | 1197.4 | 912.9 |
| 42.5° | 1217.8 | 1220.2 | 1230.1 | 1198.6 | 1148.9 | 1137.8 | 1092.8 | 1230.7 | 1424.6 | 1350.4 | 1018.1 |
| 45° | 1304.9 | 1309.5 | 1303.7 | 1280.3 | 1237.7 | 1252.3 | 1227.2 | 1363.3 | 1609.2 | 1546.7 | 1141.9 |
| 47.5° | 1432.8 | 1443.9 | 1435.1 | 1393.1 | 1341.1 | 1368.5 | 1350.4 | 1495.3 | 1817.7 | 1741.8 | 1276.3 |
| 50° | 1552.5 | 1561.3 | 1570.6 | 1557.2 | 1505.2 | 1478.9 | 1456.7 | 1634.9 | 1996.4 | 1932.2 | 1408.3 |
| 52.5° | 1565.4 | 1573.6 | 1625.0 | 1672.3 | 1706.7 | 1637.8 | 1568.3 | 1776.2 | 2161.7 | 2108.0 | 1529.2 |
| 55° | 1481.9 | 1487.1 | 1573.0 | 1666.4 | 1824.7 | 1848.1 | 1732.4 | 1915.8 | 2300.2 | 2263.4 | 1610.4 |
| 57.5° | 1249.4 | 1271.6 | 1393.7 | 1536.8 | 1795.5 | 1973.1 | 1965.5 | 2078.2 | 2390.1 | 2373.2 | 1714.9 |
| 60° | 820.7 | 845.2 | 991.2 | 1207.9 | 1580.6 | 1939.8 | 2221.3 | 2321.8 | 2516.3 | 2535.0 | 1898.3 |
| 62.5° | 425.2 | 453.8 | 582.3 | 774.5 | 1145.4 | 1689.2 | 2308.4 | 2721.9 | 2758.1 | 2821.8 | 2225.4 |
| 65° | 243.0 | 248.8 | 313.1 | 453.8 | 709.1 | 1209.7 | 2203.8 | 3117.9 | 3076.4 | 3205.5 | 2643.0 |
| 67° | 180.5 | 180.5 | 225.5 | 308.4 | 449.2 | 822.4 | 1879.6 | 3201.4 | 3276.8 | 3345.1 | 2727.2 |
| 67.5° | 161.8 | 170.6 | 209.1 | 284.5 | 403.0 | 729.5 | 1758.7 | 3179.2 | 3289.6 | 3332.3 | 2697.9 |
| 70° | 111.0 | 116.8 | 150.1 | 203.9 | 271.6 | 379.7 | 1153.0 | 2811.8 | 3169.3 | 3126.1 | 2445.0 |
| 72.5° | 66.6 | 68.9 | 99.3 | 146.6 | 202.7 | 203.3 | 629.1 | 2134.3 | 2685.7 | 2685.1 | 1997.0 |
| 75° | 41.5 | 43.8 | 58.4 | 98.1 | 141.9 | 127.3 | 290.9 | 1452.1 | 1928.7 | 1891.3 | 1338.2 |
| 77.5° | 23.4 | 26.9 | 35.0 | 53.7 | 90.0 | 81.2 | 122.7 | 813.6 | 1042.0 | 977.8 | 664.7 |
| 80° | 9.3 | 11.1 | 19.9 | 25.7 | 50.8 | 48.5 | 50.2 | 286.2 | 421.7 | 380.2 | 222.5 |
| 82.5° | 2.3 | 2.9 | 7.0 | 12.3 | 19.9 | 19.9 | 15.8 | 78.3 | 99.9 | 92.9 | 57.2 |
| 85° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 4.1 | 8.8 | 10.5 | 12.3 | 9.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.8 | 1.8 | 1.8 | 1.8 |
| 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° | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 | 361.0 |
| 2.5° | 363.3 | 359.2 | 351.0 | 342.3 | 333.5 | 326.5 | 320.7 | 312.5 | 311.3 | 311.3 | 311.3 |
| 5° | 370.9 | 361.6 | 342.9 | 324.2 | 305.5 | 288.5 | 276.3 | 266.3 | 257.6 | 254.7 | 257.0 |
| 7.5° | 382.0 | 365.1 | 332.4 | 299.6 | 270.4 | 246.5 | 229.0 | 214.9 | 208.5 | 205.0 | 202.1 |
| 10° | 396.6 | 370.3 | 318.3 | 270.4 | 233.6 | 205.0 | 186.3 | 172.9 | 166.5 | 162.4 | 163.0 |
| 12.5° | 412.4 | 374.4 | 300.8 | 238.9 | 198.0 | 171.7 | 156.0 | 144.9 | 134.3 | 127.9 | 129.7 |
| 15° | 428.1 | 377.3 | 279.2 | 209.7 | 170.6 | 147.2 | 125.0 | 105.1 | 98.1 | 97.0 | 96.4 |
| 17.5° | 445.7 | 376.7 | 255.3 | 182.2 | 147.2 | 114.5 | 92.3 | 90.0 | 89.4 | 89.4 | 88.8 |
| 20° | 463.8 | 373.8 | 227.8 | 159.5 | 123.8 | 87.0 | 83.5 | 82.4 | 80.6 | 80.0 | 79.4 |
| 22.5° | 483.6 | 368.6 | 202.7 | 139.6 | 92.3 | 79.4 | 74.8 | 71.3 | 68.3 | 66.6 | 67.2 |
| 25° | 501.7 | 358.6 | 178.1 | 120.9 | 78.9 | 71.3 | 64.8 | 59.6 | 56.7 | 54.3 | 54.9 |
| 27.5° | 514.0 | 341.1 | 157.1 | 97.5 | 72.4 | 63.1 | 55.5 | 50.2 | 46.1 | 44.4 | 44.4 |
| 30° | 515.2 | 316.0 | 138.4 | 80.0 | 66.0 | 55.5 | 47.3 | 41.5 | 39.1 | 38.0 | 37.4 |
| 32.5° | 514.0 | 290.3 | 124.4 | 73.6 | 60.2 | 48.5 | 40.3 | 36.2 | 33.9 | 32.7 | 32.7 |
| 35° | 519.8 | 264.0 | 111.6 | 67.8 | 53.7 | 42.6 | 35.6 | 31.5 | 29.8 | 28.6 | 28.6 |
| 37.5° | 537.4 | 245.9 | 98.1 | 61.9 | 47.9 | 37.4 | 32.1 | 28.6 | 26.9 | 25.7 | 25.7 |
| 40° | 561.3 | 230.7 | 81.8 | 56.1 | 42.1 | 33.9 | 29.2 | 26.3 | 23.9 | 22.8 | 22.8 |
| 42.5° | 603.4 | 224.9 | 68.3 | 50.2 | 36.8 | 30.4 | 26.9 | 23.4 | 21.0 | 19.9 | 19.9 |
| 45° | 665.9 | 227.8 | 62.5 | 45.0 | 33.3 | 27.5 | 23.9 | 20.4 | 18.1 | 17.5 | 17.5 |
| 47.5° | 734.8 | 240.1 | 58.4 | 40.3 | 30.4 | 25.7 | 21.6 | 18.1 | 15.8 | 15.2 | 15.2 |
| 50° | 811.9 | 259.3 | 54.9 | 35.6 | 27.5 | 23.4 | 19.3 | 15.8 | 14.0 | 13.4 | 13.4 |
| 52.5° | 885.5 | 283.9 | 51.4 | 32.1 | 25.7 | 21.0 | 16.9 | 14.0 | 12.9 | 12.3 | 12.3 |
| 55° | 941.6 | 299.6 | 48.5 | 29.8 | 23.9 | 19.3 | 15.2 | 13.4 | 11.7 | 11.1 | 11.1 |
| 57.5° | 1019.8 | 325.9 | 45.0 | 26.9 | 21.6 | 17.5 | 14.0 | 12.3 | 10.5 | 10.5 | 10.5 |
| 60° | 1178.7 | 396.6 | 39.7 | 24.5 | 19.3 | 15.8 | 13.4 | 11.1 | 9.9 | 9.3 | 9.3 |
| 62.5° | 1464.9 | 513.4 | 34.5 | 22.8 | 16.9 | 14.0 | 11.7 | 9.9 | 8.8 | 7.6 | 7.6 |
| 65° | 1740.6 | 561.9 | 29.2 | 19.9 | 15.2 | 12.3 | 10.5 | 8.8 | 6.4 | 5.3 | 5.3 |
| 67° | 1725.4 | 480.7 | 24.5 | 16.9 | 12.9 | 11.1 | 8.8 | 7.0 | 4.7 | 2.9 | 2.9 |
| 67.5° | 1684.5 | 447.4 | 23.9 | 16.4 | 12.3 | 10.5 | 8.8 | 6.4 | 4.1 | 2.3 | 2.3 |
| 70° | 1431.6 | 313.1 | 18.7 | 12.9 | 10.5 | 9.3 | 7.0 | 4.7 | 2.3 | 1.2 | 1.2 |
| 72.5° | 1162.9 | 248.2 | 14.6 | 10.5 | 8.8 | 7.0 | 5.8 | 2.9 | 1.8 | 0.6 | 0.6 |
| 75° | 822.4 | 152.4 | 12.9 | 9.3 | 7.0 | 5.3 | 4.7 | 2.9 | 1.8 | 1.2 | 0.6 |
| 77.5° | 405.9 | 70.1 | 10.5 | 8.2 | 6.4 | 5.3 | 4.1 | 3.5 | 2.9 | 2.3 | 1.2 |
| 80° | 119.2 | 22.8 | 7.0 | 5.8 | 5.8 | 5.3 | 4.7 | 4.1 | 3.5 | 2.9 | 1.8 |
| 82.5° | 26.9 | 8.2 | 2.3 | 2.9 | 4.1 | 4.1 | 4.1 | 2.9 | 2.3 | 1.2 | 0.6 |
| 85° | 3.5 | 1.8 | 1.8 | 1.8 | 2.3 | 2.3 | 1.8 | 1.2 | 1.2 | 0.0 | 0.0 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 1.8 | 1.2 | 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)