

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: McGRAW-EDISON

Report Number: P594952

Luminaire Tested: **IST-PA1A-730-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-730-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3715 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

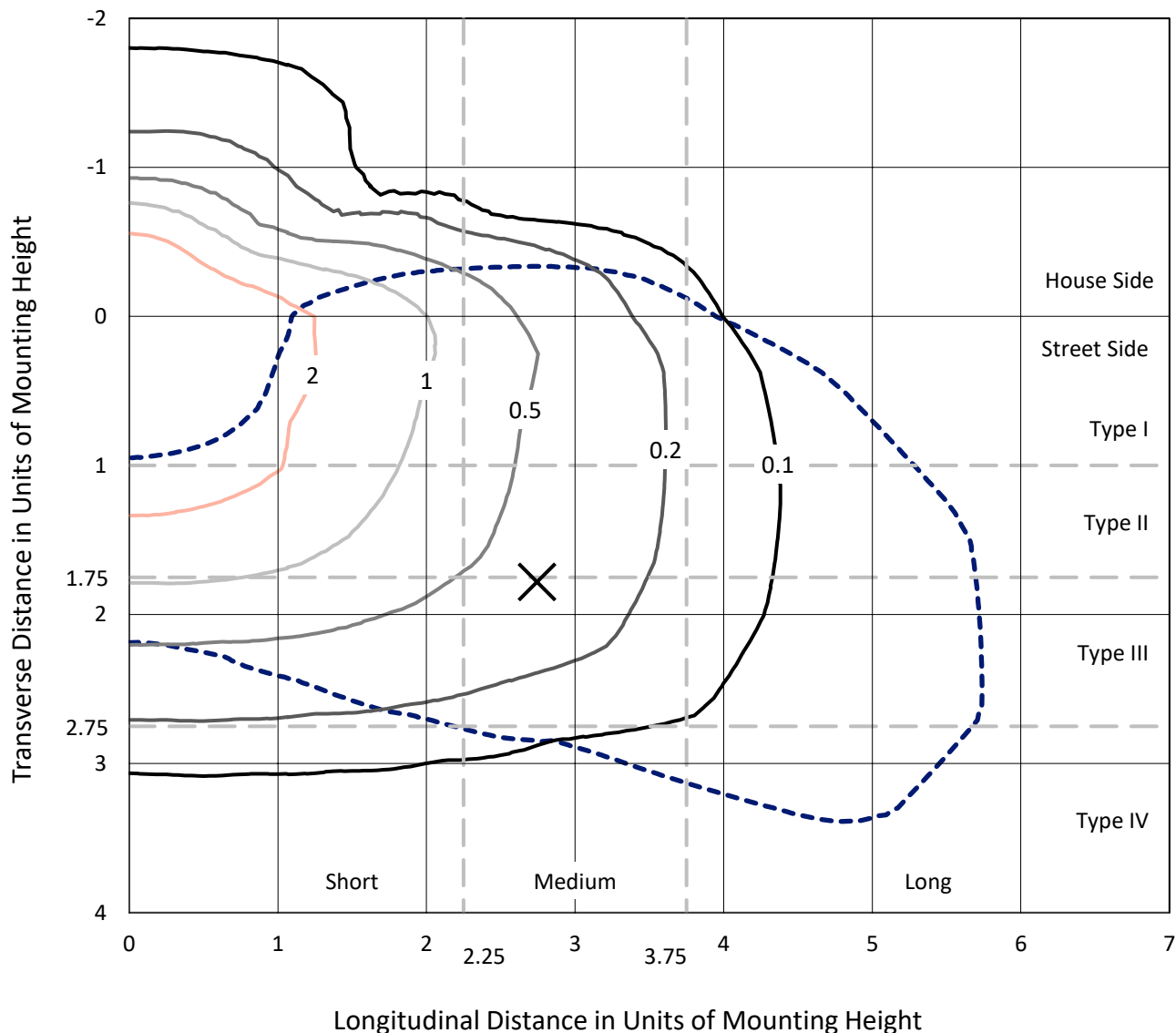
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

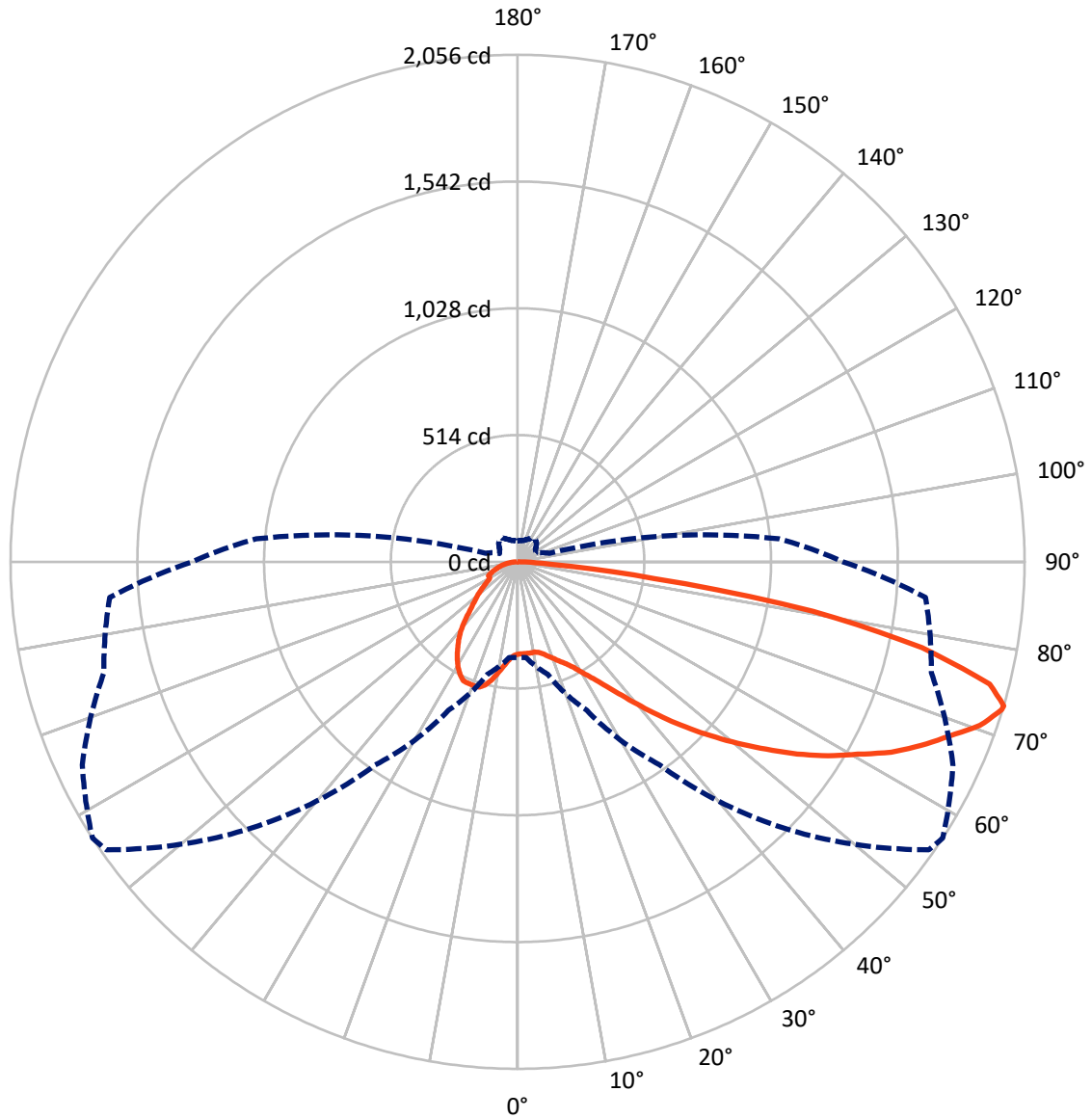
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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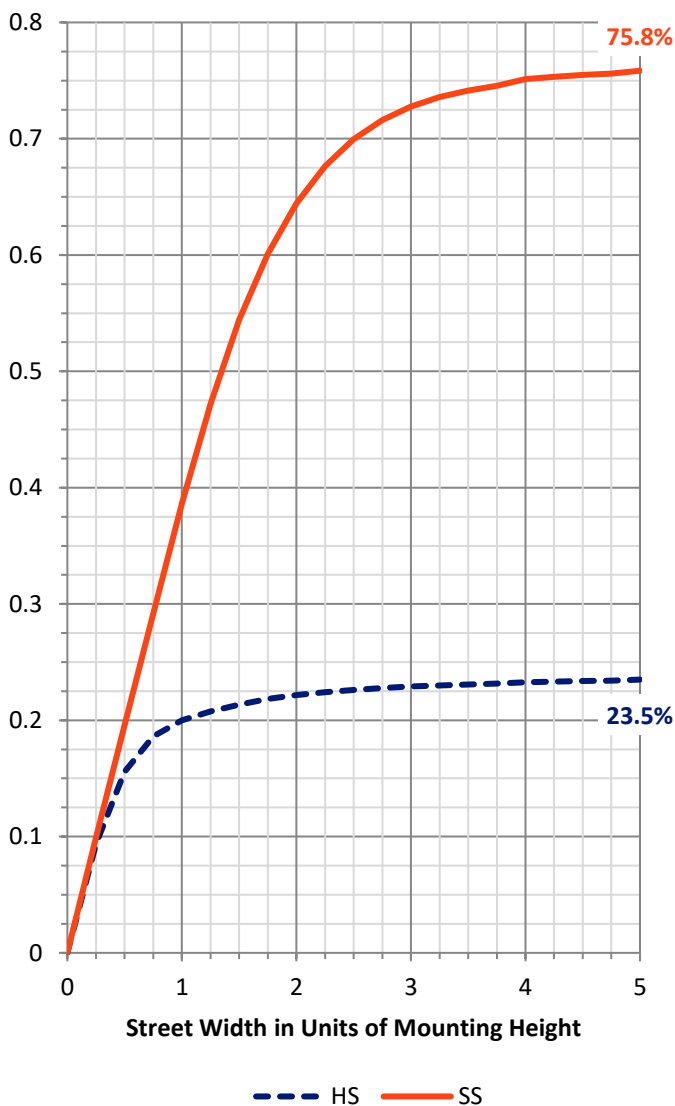
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 886.3 | 0.0 | 886.3 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 2828.7 | 0.0 | 2828.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 3715.0 | 0.0 | 3715.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.4 | 1.0 |
| 10°-20° | 122.9 | 3.3 |
| 20°-30° | 226.9 | 6.1 |
| 30°-40° | 350.3 | 9.4 |
| 40°-50° | 527.3 | 14.2 |
| 50°-60° | 771.8 | 20.8 |
| 60°-70° | 911.4 | 24.5 |
| 70°-80° | 652.6 | 17.6 |
| 80°-90° | 114.3 | 3.1 |
| 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° | 3715.0 | 100.0 |
| 0°-180° | 3715.0 | 100.0 |

Coefficient of Utilization

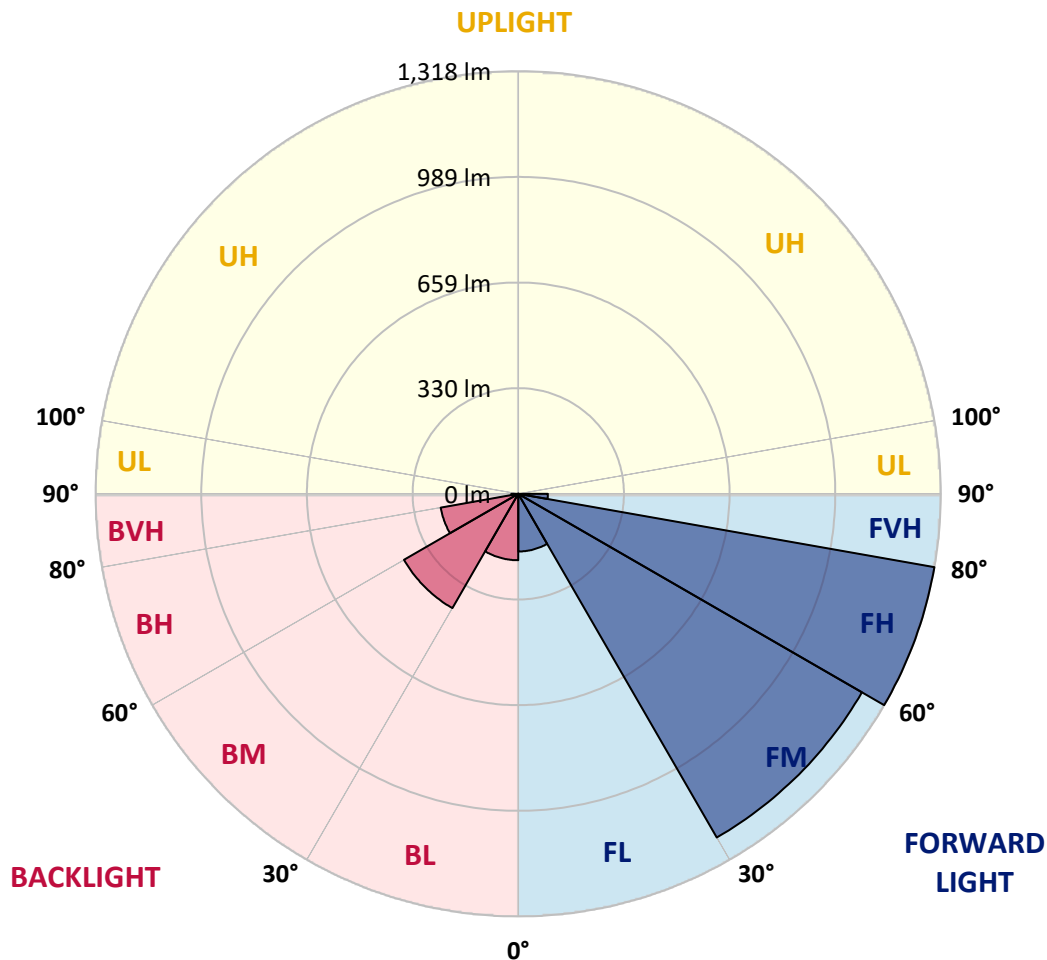


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 180.0 | 4.8 | | | |
| FM (30°-60°) | 1237.9 | 33.3 | | | |
| FH (60°-80°) | 1318.3 | 35.5 | | | G1/1800 |
| FVH (80°-90°) | 92.5 | 2.5 | | | G1/100 |
| BL (0°-30°) | 207.1 | 5.6 | B1/500 | | |
| BM (30°-60°) | 411.6 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 245.7 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.8 | 0.6 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 |
| 2.5° | 369.7 | 371.6 | 370.6 | 371.6 | 374.3 | 372.5 | 372.5 | 373.4 | 374.3 | 373.4 | 375.2 |
| 5° | 354.3 | 355.2 | 357.0 | 360.6 | 367.0 | 368.8 | 373.4 | 373.4 | 375.2 | 377.0 | 379.8 |
| 7.5° | 328.8 | 330.6 | 334.2 | 337.9 | 348.8 | 359.7 | 371.6 | 373.4 | 379.8 | 384.3 | 386.1 |
| 10° | 324.2 | 326.0 | 326.9 | 332.4 | 343.3 | 354.3 | 368.8 | 372.5 | 384.3 | 391.6 | 399.8 |
| 12.5° | 319.6 | 321.5 | 324.2 | 331.5 | 345.1 | 357.0 | 372.5 | 376.1 | 390.7 | 405.3 | 415.3 |
| 15° | 323.3 | 324.2 | 326.9 | 334.2 | 347.9 | 364.3 | 384.3 | 387.0 | 403.4 | 421.6 | 437.1 |
| 17.5° | 332.4 | 333.3 | 332.4 | 338.8 | 351.5 | 370.6 | 398.0 | 402.5 | 422.6 | 440.8 | 456.2 |
| 20° | 353.3 | 354.3 | 350.6 | 350.6 | 359.7 | 378.8 | 412.5 | 418.9 | 443.5 | 463.5 | 479.0 |
| 22.5° | 398.9 | 397.1 | 387.9 | 376.1 | 376.1 | 391.6 | 428.9 | 438.0 | 469.0 | 485.4 | 499.1 |
| 25° | 463.5 | 463.5 | 449.0 | 427.1 | 412.5 | 410.7 | 448.1 | 458.1 | 494.5 | 514.5 | 522.7 |
| 27.5° | 541.9 | 542.8 | 519.1 | 489.9 | 461.7 | 448.1 | 475.4 | 485.4 | 526.4 | 547.3 | 550.0 |
| 30° | 611.1 | 612.0 | 588.3 | 561.0 | 526.4 | 496.3 | 511.8 | 522.7 | 570.1 | 586.5 | 577.4 |
| 32.5° | 680.3 | 681.2 | 664.8 | 627.5 | 591.0 | 553.7 | 558.2 | 564.6 | 612.9 | 628.4 | 613.8 |
| 35° | 740.4 | 743.1 | 726.7 | 698.5 | 660.2 | 626.5 | 618.3 | 619.3 | 663.0 | 673.0 | 653.9 |
| 37.5° | 801.4 | 801.4 | 791.4 | 765.0 | 732.2 | 694.8 | 683.9 | 686.6 | 725.8 | 735.8 | 708.5 |
| 40° | 878.8 | 882.4 | 877.0 | 844.2 | 806.9 | 775.9 | 765.0 | 768.6 | 811.4 | 805.9 | 776.8 |
| 42.5° | 972.6 | 980.8 | 971.7 | 936.2 | 896.1 | 861.5 | 861.5 | 861.5 | 897.9 | 898.8 | 855.1 |
| 45° | 1092.8 | 1092.8 | 1083.7 | 1052.7 | 999.9 | 965.3 | 953.5 | 956.2 | 988.1 | 991.7 | 940.7 |
| 47.5° | 1193.0 | 1202.1 | 1192.1 | 1169.3 | 1127.4 | 1094.6 | 1057.3 | 1052.7 | 1079.2 | 1079.2 | 1035.4 |
| 50° | 1274.0 | 1290.4 | 1282.2 | 1292.2 | 1262.2 | 1245.8 | 1169.3 | 1156.6 | 1165.7 | 1174.8 | 1126.5 |
| 52.5° | 1341.4 | 1354.2 | 1351.4 | 1380.6 | 1395.2 | 1404.3 | 1283.1 | 1263.1 | 1270.4 | 1269.5 | 1225.8 |
| 55° | 1346.0 | 1350.5 | 1391.5 | 1457.1 | 1514.5 | 1557.3 | 1397.9 | 1376.0 | 1368.7 | 1365.1 | 1331.4 |
| 57.5° | 1319.6 | 1322.3 | 1404.3 | 1481.7 | 1606.4 | 1655.6 | 1506.3 | 1484.4 | 1474.4 | 1461.6 | 1448.0 |
| 60° | 1255.8 | 1269.5 | 1376.9 | 1496.2 | 1661.1 | 1732.1 | 1607.3 | 1584.6 | 1577.3 | 1550.0 | 1580.9 |
| 62.5° | 1174.8 | 1181.1 | 1288.6 | 1466.2 | 1668.4 | 1764.9 | 1713.9 | 1700.2 | 1677.5 | 1638.3 | 1699.3 |
| 65° | 1060.0 | 1059.1 | 1153.8 | 1377.9 | 1631.0 | 1781.3 | 1804.0 | 1796.8 | 1768.5 | 1701.1 | 1805.0 |
| 67.5° | 870.6 | 891.6 | 984.4 | 1221.2 | 1540.9 | 1797.7 | 1896.0 | 1886.9 | 1842.3 | 1757.6 | 1855.0 |
| 70° | 663.9 | 676.6 | 782.3 | 986.3 | 1361.5 | 1753.1 | 1986.2 | 1988.9 | 1907.9 | 1769.4 | 1833.2 |
| 72.5° | 423.5 | 445.3 | 529.1 | 718.5 | 1090.1 | 1587.3 | 2039.9 | 2052.7 | 1944.3 | 1753.1 | 1697.5 |
| 73° | 387.9 | 389.8 | 471.7 | 664.8 | 1005.4 | 1528.1 | 2036.3 | 2056.3 | 1947.9 | 1736.7 | 1660.2 |
| 75° | 231.3 | 241.3 | 290.5 | 441.7 | 717.6 | 1227.6 | 1937.9 | 1978.0 | 1928.8 | 1663.8 | 1455.3 |
| 77.5° | 108.4 | 115.7 | 143.0 | 233.1 | 390.7 | 738.6 | 1629.2 | 1676.6 | 1709.3 | 1456.2 | 1109.2 |
| 80° | 57.4 | 58.3 | 70.1 | 117.5 | 209.5 | 304.2 | 1135.6 | 1213.9 | 1260.4 | 1096.5 | 745.8 |
| 82.5° | 48.3 | 48.3 | 54.6 | 75.6 | 133.9 | 118.4 | 468.1 | 557.3 | 683.0 | 540.0 | 293.2 |
| 85° | 39.2 | 40.1 | 54.6 | 56.5 | 95.6 | 61.0 | 112.0 | 140.2 | 265.0 | 238.6 | 32.8 |
| 87.5° | 12.7 | 14.6 | 31.0 | 40.1 | 51.0 | 23.7 | 28.2 | 31.0 | 31.0 | 45.5 | 10.9 |
| 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° | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 | 374.3 |
| 2.5° | 376.1 | 376.1 | 377.0 | 377.9 | 379.8 | 379.8 | 381.6 | 382.5 | 384.3 | 385.2 | 382.5 |
| 5° | 379.8 | 381.6 | 383.4 | 388.9 | 395.2 | 400.7 | 406.2 | 410.7 | 415.3 | 418.0 | 417.1 |
| 7.5° | 389.8 | 392.5 | 399.8 | 409.8 | 422.6 | 430.7 | 438.9 | 447.1 | 450.8 | 452.6 | 452.6 |
| 10° | 403.4 | 408.9 | 422.6 | 438.9 | 453.5 | 466.3 | 472.6 | 478.1 | 479.9 | 481.7 | 479.9 |
| 12.5° | 422.6 | 429.8 | 450.8 | 471.7 | 488.1 | 494.5 | 493.6 | 486.3 | 476.3 | 474.5 | 472.6 |
| 15° | 447.1 | 456.2 | 479.9 | 504.5 | 517.3 | 509.1 | 488.1 | 480.8 | 479.0 | 484.5 | 482.7 |
| 17.5° | 468.1 | 479.0 | 508.2 | 533.7 | 530.9 | 502.7 | 496.3 | 500.0 | 498.1 | 499.1 | 499.1 |
| 20° | 488.1 | 503.6 | 534.6 | 551.9 | 528.2 | 510.0 | 504.5 | 500.0 | 494.5 | 496.3 | 494.5 |
| 22.5° | 513.6 | 524.5 | 560.1 | 561.0 | 524.5 | 510.0 | 498.1 | 489.0 | 487.2 | 488.1 | 489.0 |
| 25° | 533.7 | 551.0 | 581.9 | 554.6 | 524.5 | 495.4 | 479.0 | 477.2 | 478.1 | 483.6 | 481.7 |
| 27.5° | 561.0 | 578.3 | 599.2 | 551.0 | 502.7 | 471.7 | 465.4 | 464.4 | 458.1 | 459.9 | 459.9 |
| 30° | 586.5 | 607.4 | 608.3 | 551.0 | 475.4 | 451.7 | 442.6 | 426.2 | 412.5 | 415.3 | 414.4 |
| 32.5° | 621.1 | 639.3 | 610.2 | 529.1 | 444.4 | 425.3 | 400.7 | 375.2 | 368.8 | 372.5 | 373.4 |
| 35° | 661.2 | 675.7 | 612.0 | 492.7 | 413.4 | 387.9 | 343.3 | 328.8 | 327.8 | 330.6 | 333.3 |
| 37.5° | 714.0 | 722.2 | 625.6 | 450.8 | 383.4 | 329.7 | 295.1 | 291.4 | 283.2 | 277.8 | 278.7 |
| 40° | 778.6 | 768.6 | 652.0 | 413.4 | 347.9 | 276.8 | 262.3 | 252.3 | 236.8 | 221.3 | 224.0 |
| 42.5° | 850.6 | 822.3 | 660.2 | 383.4 | 299.6 | 244.1 | 230.4 | 214.9 | 195.8 | 179.4 | 178.5 |
| 45° | 928.0 | 882.4 | 653.0 | 359.7 | 251.3 | 219.5 | 204.9 | 186.7 | 163.9 | 150.3 | 150.3 |
| 47.5° | 1020.0 | 939.8 | 630.2 | 340.6 | 217.7 | 197.6 | 179.4 | 161.2 | 145.7 | 133.0 | 133.0 |
| 50° | 1121.0 | 1006.3 | 613.8 | 306.9 | 194.0 | 176.7 | 158.5 | 143.9 | 132.0 | 122.0 | 122.0 |
| 52.5° | 1227.6 | 1069.1 | 600.1 | 257.7 | 173.0 | 157.5 | 144.8 | 133.0 | 122.9 | 110.2 | 108.4 |
| 55° | 1336.0 | 1129.2 | 606.5 | 210.4 | 153.9 | 143.9 | 135.7 | 123.9 | 120.2 | 117.5 | 115.7 |
| 57.5° | 1448.9 | 1194.8 | 622.0 | 172.1 | 137.5 | 136.6 | 133.0 | 141.2 | 149.4 | 143.9 | 141.2 |
| 60° | 1537.2 | 1245.8 | 623.8 | 144.8 | 127.5 | 143.9 | 162.1 | 164.8 | 143.0 | 130.2 | 129.3 |
| 62.5° | 1607.3 | 1294.1 | 581.0 | 125.7 | 130.2 | 169.4 | 173.0 | 145.7 | 123.9 | 118.4 | 118.4 |
| 65° | 1643.8 | 1311.4 | 467.2 | 114.7 | 135.7 | 162.1 | 156.6 | 131.1 | 115.7 | 114.7 | 114.7 |
| 67.5° | 1625.6 | 1297.7 | 326.9 | 102.9 | 120.2 | 140.2 | 140.2 | 120.2 | 106.5 | 111.1 | 109.3 |
| 70° | 1538.1 | 1230.3 | 215.8 | 92.9 | 105.6 | 126.6 | 130.2 | 112.0 | 99.3 | 102.0 | 99.3 |
| 72.5° | 1356.0 | 1110.1 | 142.1 | 82.0 | 91.1 | 112.0 | 121.1 | 102.9 | 91.1 | 90.2 | 87.4 |
| 73° | 1320.5 | 1064.6 | 133.9 | 80.1 | 88.3 | 108.4 | 118.4 | 101.1 | 89.2 | 86.5 | 84.7 |
| 75° | 1120.1 | 887.9 | 101.1 | 71.9 | 78.3 | 97.4 | 110.2 | 94.7 | 82.0 | 78.3 | 76.5 |
| 77.5° | 816.0 | 615.6 | 75.6 | 61.0 | 65.6 | 84.7 | 97.4 | 86.5 | 72.9 | 68.3 | 67.4 |
| 80° | 509.1 | 335.1 | 56.5 | 49.2 | 51.9 | 71.0 | 85.6 | 77.4 | 62.8 | 57.4 | 56.5 |
| 82.5° | 199.4 | 109.3 | 39.2 | 36.4 | 38.2 | 53.7 | 71.9 | 67.4 | 52.8 | 48.3 | 45.5 |
| 85° | 32.8 | 37.3 | 25.5 | 24.6 | 24.6 | 38.2 | 54.6 | 51.9 | 35.5 | 31.0 | 27.3 |
| 87.5° | 9.1 | 17.3 | 10.0 | 9.1 | 9.1 | 16.4 | 30.1 | 23.7 | 14.6 | 11.8 | 10.9 |
| 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)