

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: P450183

Luminaire Tested: **GALN-SA1A-722-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

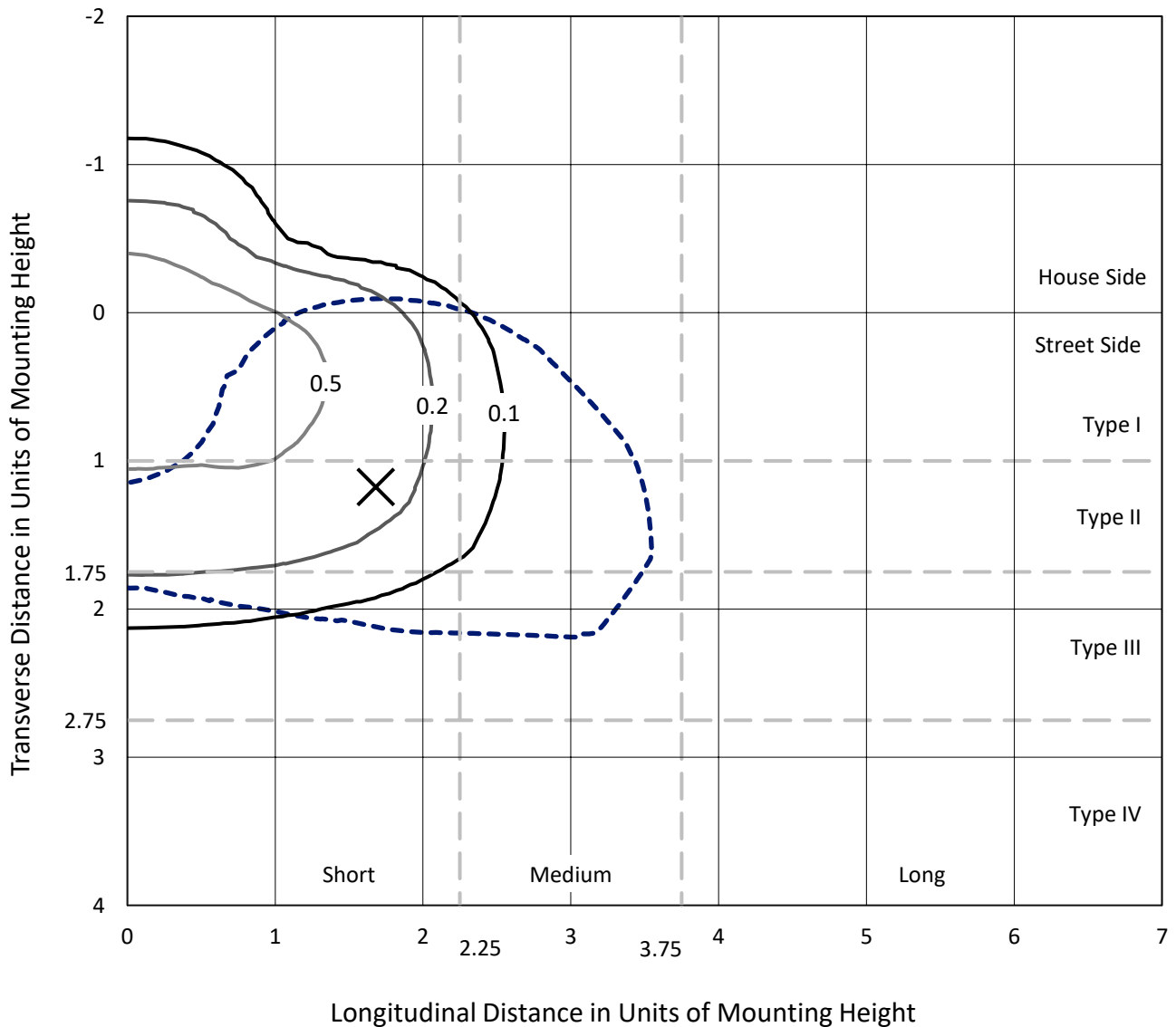
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

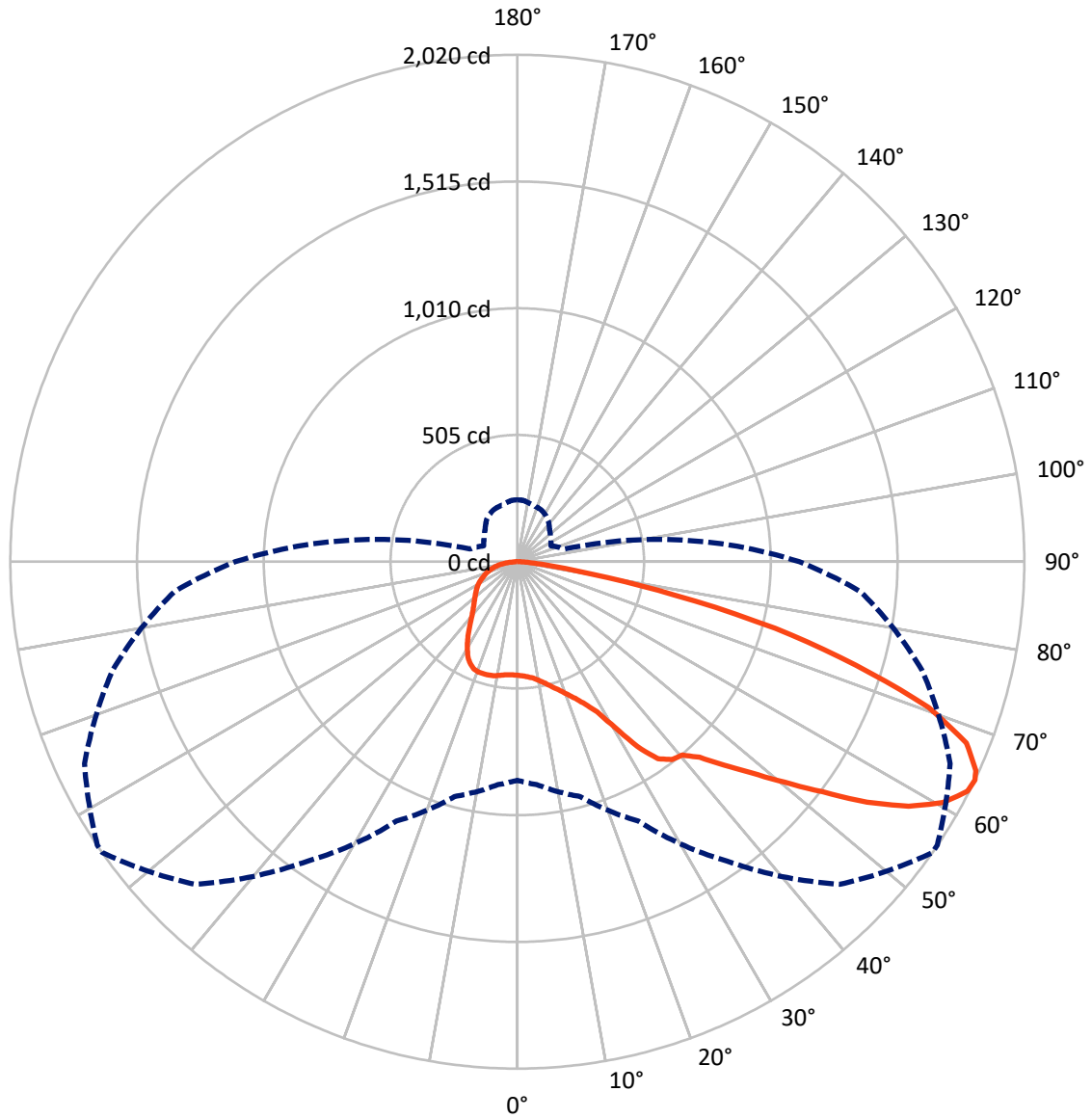
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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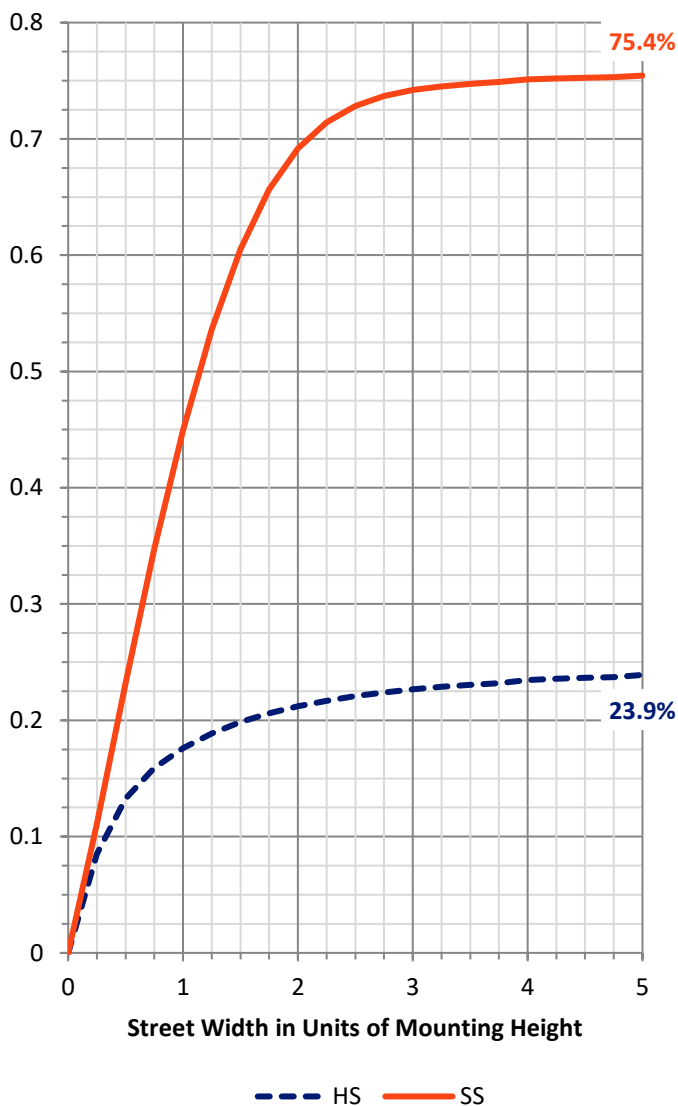
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 819.4 | 0.0 | 819.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 2553.6 | 0.0 | 2553.6 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 3373.0 | 0.0 | 3373.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.3 |
| 10°-20° | 138.9 | 4.1 |
| 20°-30° | 247.3 | 7.3 |
| 30°-40° | 380.5 | 11.3 |
| 40°-50° | 539.3 | 16.0 |
| 50°-60° | 780.7 | 23.1 |
| 60°-70° | 807.9 | 24.0 |
| 70°-80° | 378.4 | 11.2 |
| 80°-90° | 56.0 | 1.7 |
| 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° | 3373.0 | 100.0 |
| 0°-180° | 3373.0 | 100.0 |

Coefficient of Utilization



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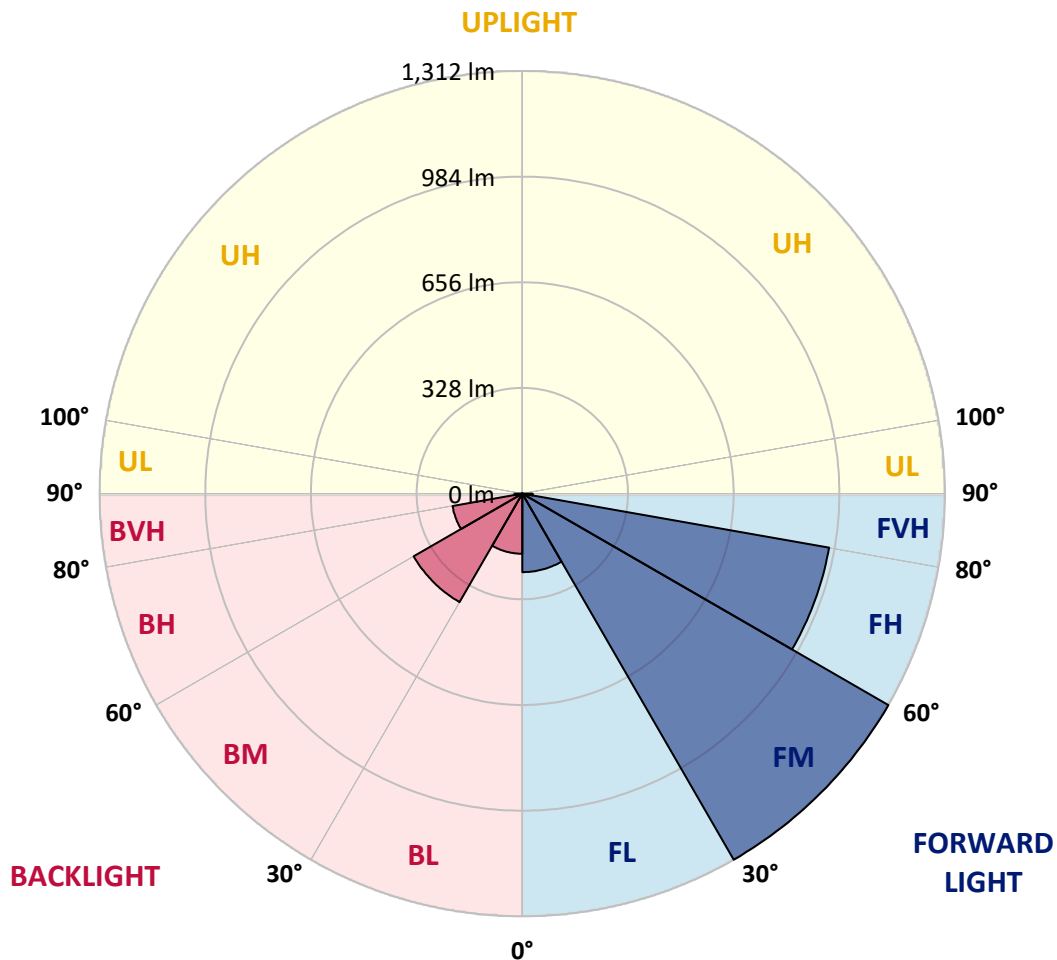
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 243.6 | 7.2 | | | |
| FM (30°-60°) | 1311.5 | 38.9 | | | |
| FH (60°-80°) | 966.5 | 28.7 | | | G1/1800 |
| FVH (80°-90°) | 32.1 | 1.0 | | | G1/100 |
| BL (0°-30°) | 186.6 | 5.5 | B1/500 | | |
| BM (30°-60°) | 389.0 | 11.5 | B1/1000 | | |
| BH (60°-80°) | 219.8 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.9 | 0.7 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 |
| 2.5° | 457.6 | 457.4 | 458.0 | 457.4 | 457.8 | 456.5 | 455.9 | 456.3 | 455.8 | 454.8 | 453.1 |
| 5° | 463.3 | 463.1 | 463.3 | 462.5 | 462.9 | 462.1 | 460.8 | 461.2 | 460.3 | 458.2 | 455.8 |
| 7.5° | 472.9 | 472.1 | 472.1 | 471.9 | 471.2 | 470.0 | 469.1 | 468.7 | 467.8 | 465.2 | 461.4 |
| 10° | 485.3 | 485.3 | 485.5 | 484.0 | 484.9 | 482.8 | 481.9 | 481.7 | 478.5 | 475.1 | 469.9 |
| 12.5° | 501.6 | 502.6 | 502.0 | 501.3 | 500.9 | 500.1 | 496.9 | 497.7 | 494.1 | 488.3 | 481.9 |
| 15° | 521.9 | 523.4 | 522.5 | 522.1 | 521.2 | 518.4 | 517.0 | 516.5 | 511.8 | 503.3 | 494.9 |
| 17.5° | 548.8 | 546.9 | 546.2 | 545.2 | 541.3 | 539.2 | 537.0 | 536.6 | 532.5 | 522.5 | 509.3 |
| 20° | 572.3 | 575.0 | 573.4 | 572.5 | 568.6 | 564.6 | 562.9 | 562.4 | 558.8 | 547.9 | 526.8 |
| 22.5° | 600.3 | 600.9 | 601.5 | 599.2 | 597.3 | 594.3 | 591.3 | 590.4 | 589.1 | 577.8 | 552.0 |
| 25° | 630.2 | 632.5 | 630.6 | 628.3 | 626.1 | 625.9 | 628.7 | 628.3 | 627.8 | 616.9 | 585.5 |
| 27.5° | 678.9 | 681.0 | 681.6 | 679.1 | 670.5 | 671.2 | 677.6 | 679.7 | 688.3 | 670.3 | 628.5 |
| 30° | 706.4 | 708.4 | 713.1 | 722.4 | 736.1 | 748.1 | 763.5 | 768.2 | 776.5 | 742.5 | 679.7 |
| 32.5° | 723.3 | 724.1 | 732.5 | 749.6 | 790.8 | 835.7 | 877.7 | 879.4 | 884.6 | 836.9 | 726.5 |
| 35° | 750.0 | 750.6 | 757.3 | 776.1 | 824.5 | 899.3 | 964.1 | 966.2 | 961.9 | 866.2 | 748.3 |
| 37.5° | 782.9 | 784.4 | 788.7 | 804.3 | 862.1 | 952.5 | 1000.1 | 998.6 | 960.2 | 889.5 | 786.8 |
| 40° | 830.8 | 830.8 | 825.8 | 846.8 | 901.7 | 982.9 | 1012.7 | 1010.0 | 999.9 | 957.0 | 845.5 |
| 42.5° | 873.1 | 872.4 | 884.4 | 898.7 | 951.4 | 1030.0 | 1065.5 | 1069.8 | 1086.5 | 1041.8 | 912.3 |
| 45° | 928.2 | 931.6 | 938.4 | 964.3 | 1035.8 | 1110.2 | 1156.1 | 1160.2 | 1183.9 | 1141.6 | 990.3 |
| 47.5° | 983.9 | 985.0 | 1006.3 | 1040.9 | 1140.3 | 1219.1 | 1256.7 | 1263.5 | 1285.1 | 1258.4 | 1074.3 |
| 50° | 1023.4 | 1034.1 | 1068.1 | 1122.6 | 1248.1 | 1351.8 | 1381.2 | 1389.3 | 1427.4 | 1385.5 | 1172.3 |
| 52.5° | 1065.1 | 1075.6 | 1117.2 | 1200.3 | 1371.8 | 1487.6 | 1523.7 | 1529.1 | 1568.8 | 1514.1 | 1272.5 |
| 55° | 1100.8 | 1110.6 | 1157.8 | 1269.1 | 1470.3 | 1626.2 | 1691.6 | 1685.2 | 1704.2 | 1613.2 | 1349.8 |
| 57.5° | 1106.7 | 1114.6 | 1174.0 | 1313.1 | 1544.4 | 1745.0 | 1838.8 | 1842.6 | 1820.6 | 1687.3 | 1413.5 |
| 60° | 1061.5 | 1077.7 | 1146.0 | 1308.4 | 1577.6 | 1827.7 | 1948.6 | 1951.2 | 1888.8 | 1725.2 | 1438.9 |
| 62.5° | 981.6 | 979.9 | 1062.5 | 1232.8 | 1531.0 | 1846.5 | 2013.3 | 2010.5 | 1915.5 | 1707.0 | 1414.3 |
| 64° | 871.3 | 891.6 | 968.7 | 1139.9 | 1455.8 | 1817.6 | 2020.0 | 2018.5 | 1902.7 | 1669.0 | 1372.3 |
| 65° | 804.0 | 802.8 | 879.0 | 1064.0 | 1381.0 | 1773.9 | 2008.0 | 2005.9 | 1876.0 | 1635.0 | 1339.8 |
| 67.5° | 580.4 | 583.0 | 658.2 | 821.1 | 1122.6 | 1603.4 | 1929.6 | 1921.9 | 1770.7 | 1522.2 | 1216.1 |
| 70° | 351.6 | 353.1 | 412.1 | 544.7 | 805.8 | 1296.2 | 1739.3 | 1739.7 | 1609.6 | 1353.7 | 1035.0 |
| 72.5° | 185.2 | 189.1 | 212.8 | 309.3 | 489.4 | 909.4 | 1411.1 | 1444.5 | 1381.9 | 1155.4 | 817.7 |
| 75° | 103.0 | 103.6 | 120.3 | 152.5 | 249.7 | 509.0 | 1060.6 | 1070.2 | 1094.1 | 929.9 | 604.7 |
| 77.5° | 78.6 | 79.7 | 85.0 | 98.5 | 135.9 | 236.0 | 641.9 | 690.0 | 771.1 | 655.6 | 345.0 |
| 80° | 63.7 | 64.9 | 69.4 | 77.5 | 90.4 | 111.9 | 298.2 | 324.1 | 412.7 | 291.0 | 134.6 |
| 82.5° | 49.6 | 48.9 | 54.7 | 60.0 | 65.8 | 66.2 | 122.4 | 135.4 | 168.1 | 125.2 | 58.3 |
| 85° | 36.9 | 36.9 | 41.6 | 40.4 | 42.5 | 38.7 | 54.0 | 59.6 | 67.3 | 53.2 | 27.1 |
| 87.5° | 14.7 | 16.2 | 27.3 | 24.4 | 19.0 | 15.2 | 19.9 | 21.1 | 23.3 | 20.9 | 11.3 |
| 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° | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 | 452.6 |
| 2.5° | 453.3 | 453.9 | 452.6 | 451.6 | 451.2 | 450.7 | 450.1 | 450.3 | 451.1 | 451.8 | 451.6 |
| 5° | 455.6 | 455.8 | 453.5 | 452.4 | 451.6 | 450.9 | 450.9 | 451.4 | 452.9 | 454.1 | 454.1 |
| 7.5° | 461.2 | 461.2 | 458.0 | 455.9 | 454.8 | 453.5 | 453.1 | 453.3 | 454.4 | 455.9 | 456.1 |
| 10° | 470.0 | 469.3 | 465.2 | 462.0 | 459.9 | 456.7 | 453.9 | 452.4 | 452.9 | 453.9 | 453.9 |
| 12.5° | 480.8 | 478.7 | 473.4 | 469.1 | 464.0 | 458.0 | 452.2 | 449.2 | 449.0 | 449.9 | 449.5 |
| 15° | 492.2 | 490.0 | 482.6 | 474.7 | 465.9 | 457.1 | 450.1 | 445.8 | 442.4 | 441.5 | 443.5 |
| 17.5° | 505.6 | 500.9 | 490.7 | 479.8 | 466.7 | 455.2 | 444.3 | 435.4 | 429.4 | 427.7 | 428.3 |
| 20° | 521.7 | 515.5 | 501.8 | 484.7 | 466.1 | 448.4 | 431.5 | 419.7 | 409.9 | 406.9 | 407.2 |
| 22.5° | 544.1 | 533.4 | 513.3 | 487.1 | 461.4 | 435.6 | 412.1 | 396.7 | 384.9 | 380.2 | 383.0 |
| 25° | 569.5 | 557.8 | 524.2 | 486.6 | 449.2 | 415.1 | 389.2 | 369.1 | 358.4 | 351.4 | 352.9 |
| 27.5° | 604.5 | 583.8 | 535.8 | 481.5 | 431.7 | 390.1 | 360.1 | 341.1 | 331.3 | 327.7 | 329.4 |
| 30° | 649.2 | 617.4 | 548.4 | 467.8 | 404.0 | 358.5 | 330.7 | 318.3 | 312.5 | 308.0 | 309.5 |
| 32.5° | 681.6 | 641.1 | 551.3 | 444.7 | 374.2 | 329.8 | 310.8 | 301.6 | 295.2 | 290.9 | 291.8 |
| 35° | 704.7 | 661.3 | 549.9 | 416.3 | 342.9 | 306.1 | 295.0 | 287.5 | 277.1 | 267.7 | 266.0 |
| 37.5° | 735.7 | 686.4 | 540.4 | 385.2 | 312.1 | 290.1 | 282.2 | 268.3 | 253.4 | 240.8 | 240.3 |
| 40° | 783.3 | 716.0 | 519.9 | 348.8 | 285.8 | 278.3 | 268.7 | 250.6 | 234.6 | 224.5 | 223.7 |
| 42.5° | 832.3 | 743.2 | 492.0 | 310.4 | 264.2 | 265.9 | 254.2 | 236.3 | 226.6 | 220.0 | 219.2 |
| 45° | 892.3 | 772.7 | 462.0 | 277.1 | 248.2 | 254.2 | 241.6 | 231.3 | 225.4 | 221.1 | 220.0 |
| 47.5° | 957.2 | 803.0 | 428.1 | 247.2 | 234.6 | 243.5 | 236.3 | 231.6 | 228.4 | 225.4 | 224.1 |
| 50° | 1027.1 | 836.9 | 396.3 | 223.2 | 222.4 | 232.4 | 235.8 | 234.1 | 232.2 | 231.3 | 230.1 |
| 52.5° | 1103.8 | 871.5 | 369.6 | 206.3 | 211.7 | 224.5 | 236.0 | 237.3 | 237.3 | 236.7 | 236.0 |
| 55° | 1155.7 | 895.5 | 342.6 | 192.5 | 200.8 | 218.1 | 235.6 | 240.7 | 242.5 | 241.8 | 241.0 |
| 57.5° | 1194.1 | 908.7 | 308.5 | 180.7 | 191.6 | 211.9 | 233.5 | 241.0 | 242.9 | 243.9 | 243.5 |
| 60° | 1202.0 | 896.5 | 264.0 | 168.3 | 181.6 | 202.9 | 226.0 | 235.4 | 237.8 | 243.7 | 244.2 |
| 62.5° | 1166.5 | 858.9 | 219.6 | 156.1 | 169.4 | 189.1 | 215.8 | 229.0 | 233.9 | 242.9 | 243.9 |
| 64° | 1122.8 | 816.7 | 195.0 | 148.3 | 161.5 | 181.4 | 210.8 | 227.3 | 233.7 | 245.7 | 246.5 |
| 65° | 1090.9 | 786.1 | 179.6 | 143.5 | 156.4 | 176.4 | 207.9 | 227.9 | 235.4 | 250.1 | 251.2 |
| 67.5° | 973.2 | 680.6 | 148.5 | 132.0 | 144.4 | 167.7 | 208.5 | 232.6 | 235.0 | 251.8 | 251.6 |
| 70° | 805.3 | 541.9 | 124.5 | 121.5 | 132.7 | 160.8 | 206.3 | 225.1 | 225.2 | 236.3 | 233.7 |
| 72.5° | 603.0 | 400.5 | 107.9 | 110.6 | 119.8 | 144.2 | 194.8 | 214.9 | 211.7 | 213.2 | 210.6 |
| 75° | 414.2 | 264.9 | 92.9 | 98.9 | 106.2 | 127.5 | 178.6 | 195.2 | 190.1 | 188.2 | 186.3 |
| 77.5° | 221.1 | 146.5 | 77.3 | 87.4 | 92.3 | 110.2 | 155.9 | 171.8 | 166.6 | 159.2 | 156.8 |
| 80° | 89.5 | 69.0 | 62.2 | 72.4 | 75.2 | 88.7 | 129.7 | 139.7 | 135.7 | 123.0 | 118.8 |
| 82.5° | 44.9 | 41.4 | 48.9 | 57.0 | 57.2 | 63.4 | 96.5 | 105.9 | 97.0 | 81.4 | 77.8 |
| 85° | 23.5 | 24.3 | 33.7 | 40.0 | 35.3 | 34.2 | 57.9 | 64.1 | 58.8 | 51.1 | 46.1 |
| 87.5° | 8.5 | 9.8 | 17.7 | 17.5 | 12.4 | 6.6 | 12.8 | 6.2 | 3.4 | 2.1 | 2.6 |
| 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)