

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: P526914

Luminaire Tested: **GALN-SA1D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4827 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

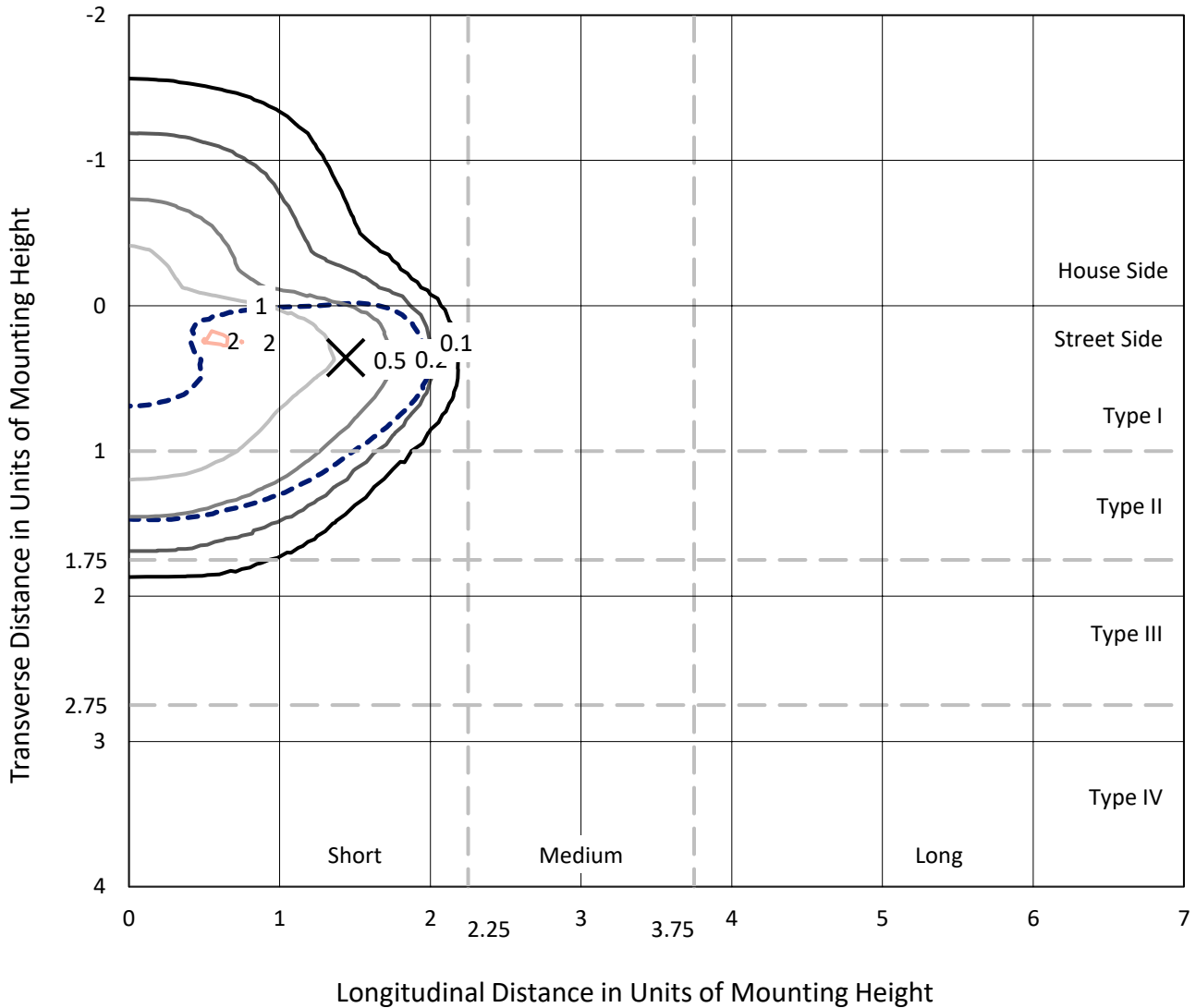
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

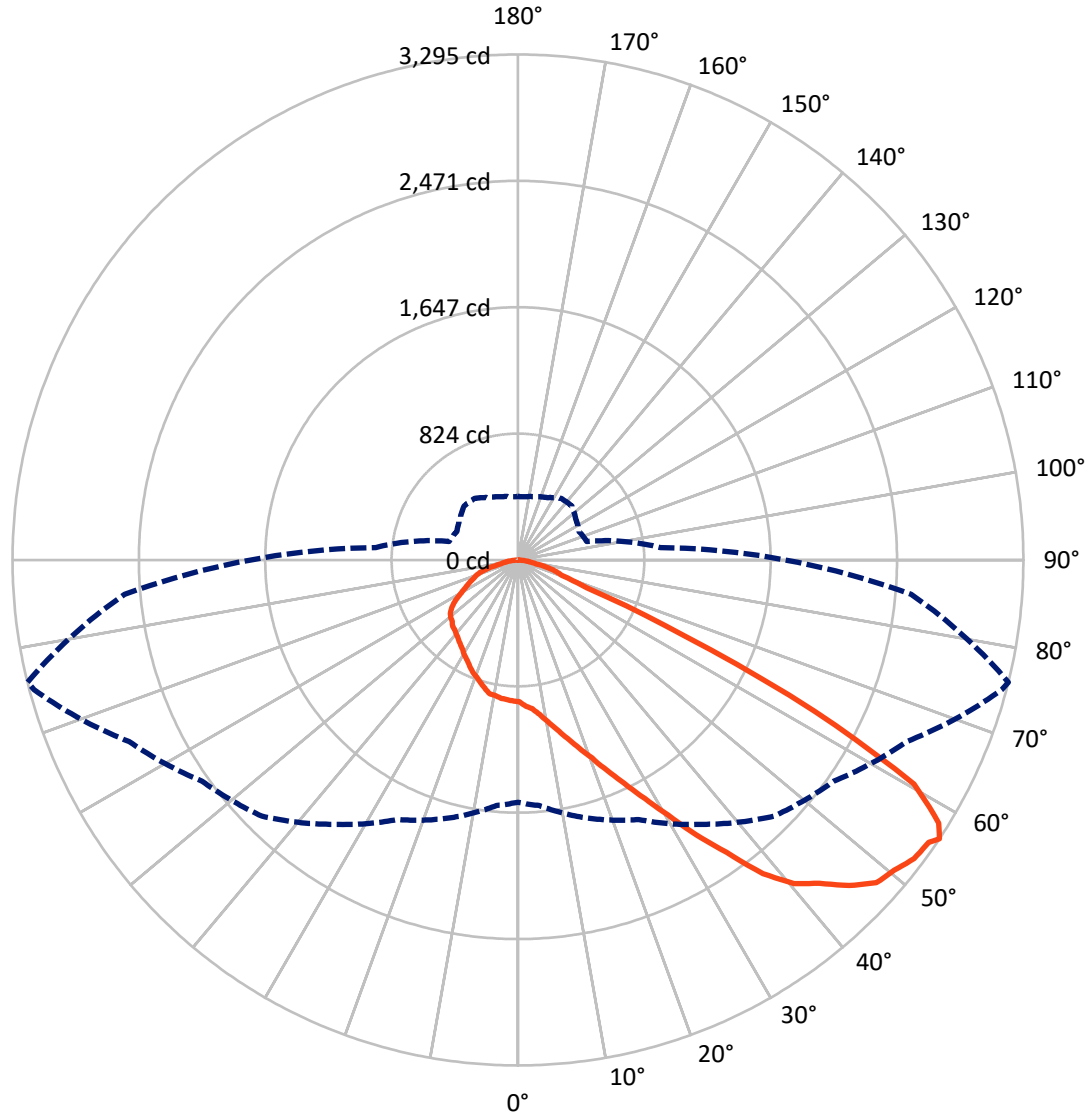
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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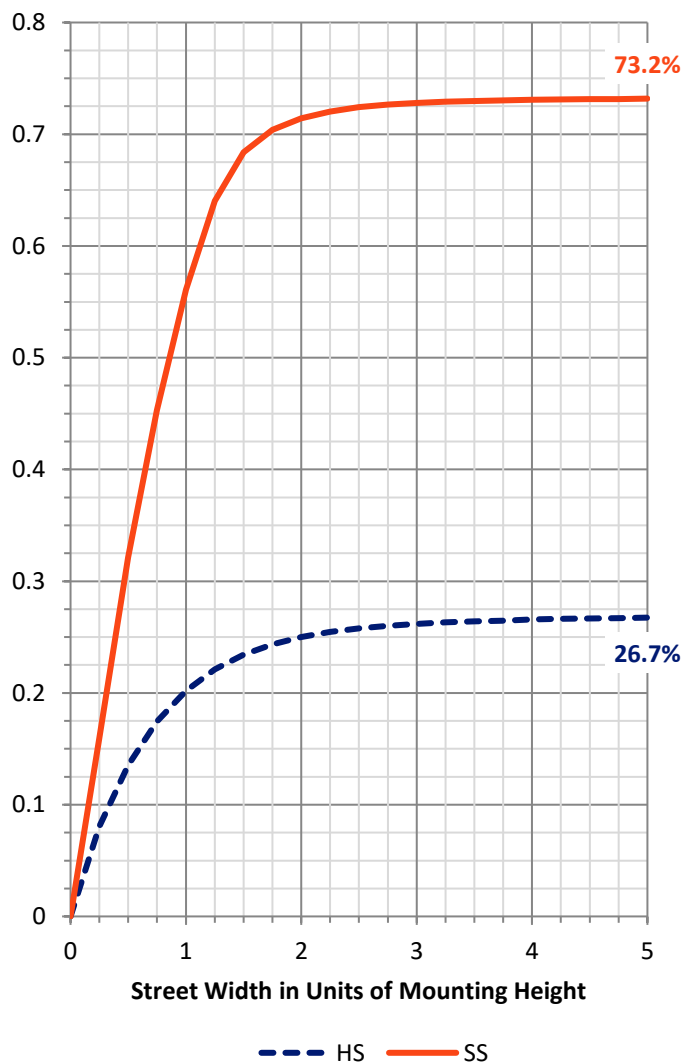
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1297.8 | 0.0 | 1297.8 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 3529.2 | 0.0 | 3529.2 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 4827.0 | 0.0 | 4827.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.6 | 1.9 |
| 10°-20° | 287.7 | 6.0 |
| 20°-30° | 503.2 | 10.4 |
| 30°-40° | 787.8 | 16.3 |
| 40°-50° | 1146.1 | 23.7 |
| 50°-60° | 1259.6 | 26.1 |
| 60°-70° | 562.2 | 11.6 |
| 70°-80° | 162.4 | 3.4 |
| 80°-90° | 26.3 | 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° | 4827.0 | 100.0 |
| 0°-180° | 4827.0 | 100.0 |

Coefficient of Utilization



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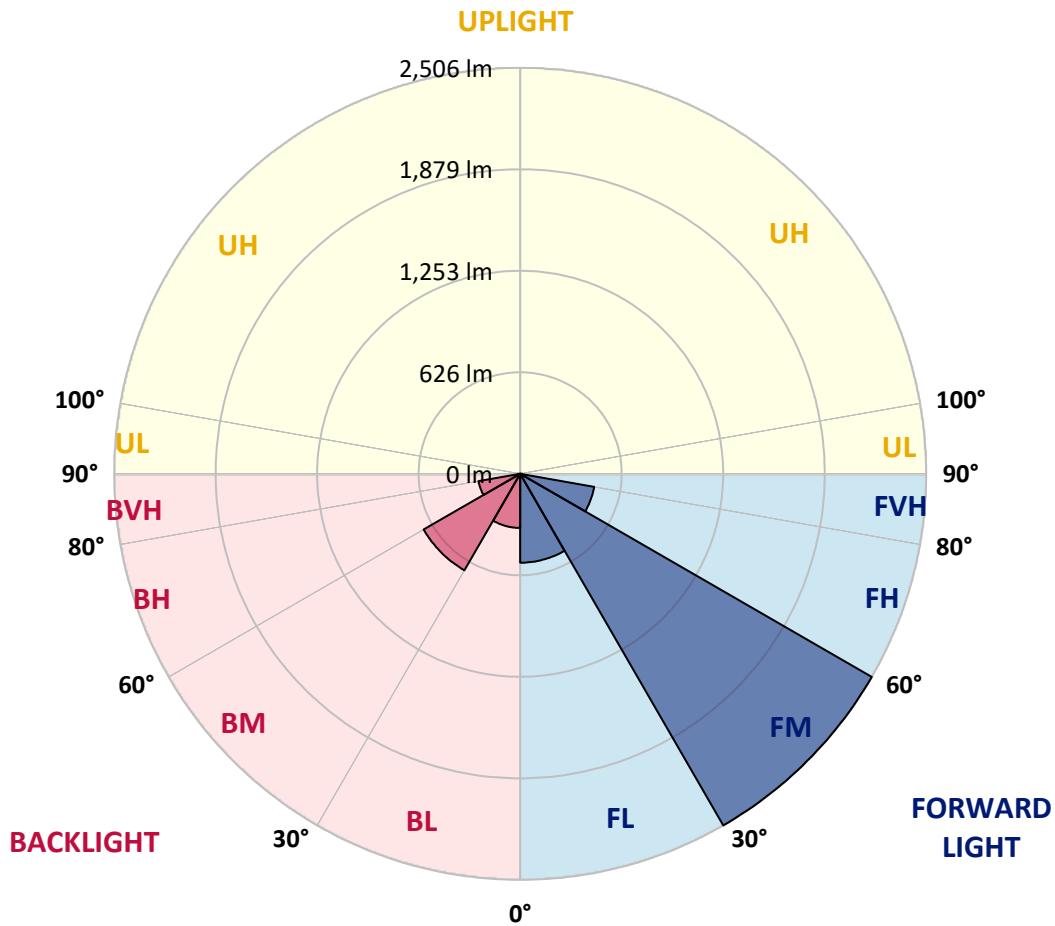
CATALOG NUMBER: GALN-SA1D-827-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 548.5 | 11.4 | | | |
| FM (30°-60°) | 2505.8 | 51.9 | | | |
| FH (60°-80°) | 463.5 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 11.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 334.0 | 6.9 | B1/500 | | |
| BM (30°-60°) | 687.7 | 14.2 | B1/1000 | | |
| BH (60°-80°) | 261.1 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.0 | 0.3 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 |
| 2.5° | 1017.4 | 1001.2 | 999.9 | 995.5 | 998.0 | 986.8 | 974.9 | 959.3 | 943.0 | 953.0 | 929.2 |
| 5° | 1088.8 | 1066.9 | 1075.6 | 1060.6 | 1062.5 | 1047.5 | 1023.1 | 1004.9 | 984.9 | 973.0 | 956.1 |
| 7.5° | 1113.8 | 1115.7 | 1121.9 | 1119.4 | 1106.9 | 1106.9 | 1090.7 | 1058.7 | 1023.7 | 1016.8 | 988.7 |
| 10° | 1147.6 | 1148.2 | 1141.3 | 1143.2 | 1160.7 | 1152.6 | 1138.2 | 1124.4 | 1079.4 | 1071.3 | 1021.2 |
| 12.5° | 1159.5 | 1148.2 | 1159.5 | 1169.5 | 1190.1 | 1201.4 | 1198.3 | 1188.3 | 1140.1 | 1134.5 | 1061.2 |
| 15° | 1161.4 | 1154.5 | 1163.9 | 1186.4 | 1204.5 | 1252.1 | 1275.9 | 1269.0 | 1205.2 | 1205.8 | 1106.3 |
| 17.5° | 1152.6 | 1162.0 | 1165.7 | 1185.1 | 1227.1 | 1271.5 | 1340.3 | 1349.7 | 1297.1 | 1289.0 | 1163.2 |
| 20° | 1164.5 | 1157.6 | 1162.6 | 1180.1 | 1235.8 | 1305.3 | 1395.4 | 1457.3 | 1383.5 | 1377.9 | 1222.1 |
| 22.5° | 1210.2 | 1200.8 | 1199.5 | 1210.8 | 1250.8 | 1322.8 | 1453.6 | 1565.0 | 1488.6 | 1491.8 | 1295.3 |
| 25° | 1245.8 | 1250.8 | 1246.5 | 1245.8 | 1270.9 | 1349.1 | 1530.5 | 1693.2 | 1631.3 | 1613.1 | 1381.6 |
| 27.5° | 1307.2 | 1319.0 | 1310.3 | 1322.2 | 1316.5 | 1388.5 | 1585.6 | 1835.3 | 1785.2 | 1760.8 | 1459.8 |
| 30° | 1392.3 | 1398.5 | 1390.4 | 1390.4 | 1373.5 | 1443.6 | 1635.7 | 1983.6 | 1962.9 | 1929.8 | 1551.8 |
| 32.5° | 1504.3 | 1513.7 | 1497.4 | 1488.0 | 1485.5 | 1525.5 | 1725.8 | 2130.0 | 2165.0 | 2136.9 | 1673.8 |
| 35° | 1652.6 | 1646.9 | 1627.5 | 1618.8 | 1585.0 | 1651.3 | 1859.7 | 2298.3 | 2390.3 | 2340.2 | 1821.5 |
| 37.5° | 1783.3 | 1774.6 | 1773.3 | 1724.5 | 1732.7 | 1787.1 | 1973.6 | 2426.0 | 2608.7 | 2594.3 | 1977.3 |
| 40° | 1905.4 | 1913.5 | 1926.6 | 1899.1 | 1886.6 | 1946.7 | 2106.2 | 2523.6 | 2778.3 | 2772.6 | 2097.5 |
| 42.5° | 2036.1 | 2028.6 | 2051.8 | 2028.6 | 2009.9 | 2095.0 | 2250.1 | 2591.2 | 2927.2 | 2880.9 | 2223.2 |
| 45° | 2225.7 | 2202.0 | 2210.1 | 2212.0 | 2198.2 | 2229.5 | 2309.6 | 2640.0 | 3031.7 | 3026.7 | 2315.2 |
| 47.5° | 2384.0 | 2384.7 | 2370.9 | 2360.3 | 2318.3 | 2349.6 | 2375.9 | 2670.6 | 3151.8 | 3143.7 | 2350.9 |
| 50° | 2442.9 | 2434.7 | 2474.8 | 2497.9 | 2500.4 | 2436.6 | 2427.9 | 2687.5 | 3215.0 | 3179.4 | 2386.6 |
| 52.5° | 2231.4 | 2238.9 | 2302.1 | 2439.7 | 2519.2 | 2526.1 | 2488.5 | 2722.6 | 3240.7 | 3233.2 | 2415.3 |
| 55° | 1795.9 | 1832.2 | 1936.0 | 2095.0 | 2283.3 | 2490.4 | 2554.2 | 2758.9 | 3254.4 | 3248.2 | 2543.0 |
| 56° | 1578.7 | 1606.9 | 1742.0 | 1866.6 | 2103.1 | 2360.9 | 2513.0 | 2797.7 | 3265.1 | 3294.5 | 2573.0 |
| 57.5° | 1270.9 | 1303.4 | 1400.4 | 1541.8 | 1820.9 | 2114.4 | 2399.1 | 2750.1 | 3223.8 | 3235.0 | 2594.9 |
| 60° | 794.7 | 797.8 | 914.2 | 1007.4 | 1203.9 | 1490.5 | 1830.9 | 2392.8 | 2983.5 | 2967.2 | 2330.9 |
| 62.5° | 521.2 | 521.9 | 627.6 | 704.0 | 793.4 | 859.1 | 1077.5 | 1586.9 | 2201.3 | 2172.6 | 1659.4 |
| 65° | 366.1 | 374.2 | 456.2 | 558.2 | 594.4 | 560.0 | 553.1 | 836.6 | 1229.6 | 1188.3 | 891.7 |
| 67.5° | 267.8 | 268.4 | 341.0 | 450.5 | 503.1 | 426.1 | 346.0 | 408.6 | 486.8 | 485.6 | 413.0 |
| 70° | 177.1 | 184.6 | 240.3 | 336.6 | 396.7 | 342.3 | 282.8 | 292.2 | 309.7 | 309.7 | 307.2 |
| 72.5° | 103.2 | 110.1 | 147.0 | 213.4 | 222.8 | 214.0 | 224.0 | 250.3 | 261.6 | 260.9 | 257.8 |
| 75° | 58.8 | 61.9 | 70.1 | 88.9 | 110.8 | 130.8 | 164.6 | 189.6 | 200.9 | 207.7 | 199.6 |
| 77.5° | 34.4 | 36.3 | 41.3 | 50.7 | 57.6 | 70.7 | 89.5 | 107.0 | 122.0 | 120.1 | 121.4 |
| 80° | 18.1 | 18.1 | 23.2 | 30.0 | 40.0 | 50.1 | 59.4 | 69.5 | 77.6 | 79.5 | 81.3 |
| 82.5° | 10.6 | 11.3 | 15.0 | 21.9 | 28.8 | 35.7 | 45.7 | 52.6 | 60.1 | 60.7 | 61.9 |
| 85° | 5.6 | 6.3 | 9.4 | 14.4 | 19.4 | 21.9 | 22.5 | 21.3 | 23.2 | 21.9 | 25.0 |
| 87.5° | 1.9 | 1.9 | 3.1 | 2.5 | 2.5 | 3.1 | 3.8 | 3.8 | 5.0 | 5.0 | 5.0 |
| 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° | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 | 923.6 |
| 2.5° | 928.6 | 928.6 | 918.0 | 897.9 | 894.8 | 886.7 | 879.2 | 878.5 | 872.9 | 867.9 | 865.4 |
| 5° | 946.1 | 926.7 | 911.1 | 892.9 | 871.6 | 861.6 | 850.4 | 837.9 | 832.9 | 837.9 | 837.2 |
| 7.5° | 966.1 | 949.9 | 902.9 | 869.1 | 844.7 | 834.7 | 822.2 | 809.1 | 810.3 | 810.3 | 801.6 |
| 10° | 985.5 | 963.6 | 888.5 | 845.4 | 809.7 | 802.2 | 795.3 | 800.3 | 806.6 | 807.8 | 802.2 |
| 12.5° | 1018.1 | 968.6 | 881.7 | 821.6 | 799.1 | 782.8 | 787.2 | 800.9 | 814.1 | 810.3 | 814.7 |
| 15° | 1042.5 | 973.0 | 850.4 | 797.2 | 769.0 | 776.5 | 792.2 | 801.6 | 823.5 | 821.0 | 825.3 |
| 17.5° | 1066.3 | 975.5 | 819.7 | 764.6 | 752.8 | 773.4 | 785.3 | 812.2 | 819.1 | 834.1 | 839.7 |
| 20° | 1115.1 | 980.5 | 788.4 | 744.6 | 740.9 | 764.6 | 785.3 | 797.8 | 812.8 | 826.0 | 826.0 |
| 22.5° | 1140.1 | 978.0 | 767.8 | 718.3 | 730.2 | 745.3 | 764.0 | 785.3 | 785.3 | 797.8 | 798.4 |
| 25° | 1171.4 | 968.0 | 735.2 | 705.8 | 714.6 | 729.0 | 750.3 | 742.7 | 750.9 | 750.9 | 760.9 |
| 27.5° | 1207.0 | 946.7 | 707.1 | 683.3 | 700.8 | 716.5 | 719.6 | 714.6 | 705.2 | 704.0 | 700.2 |
| 30° | 1235.8 | 920.5 | 686.4 | 675.8 | 690.2 | 698.9 | 688.9 | 678.3 | 662.0 | 660.8 | 652.0 |
| 32.5° | 1275.2 | 887.9 | 660.8 | 657.0 | 673.3 | 673.9 | 670.8 | 654.5 | 630.7 | 620.7 | 610.7 |
| 35° | 1341.6 | 869.1 | 641.4 | 647.0 | 652.0 | 650.1 | 644.5 | 627.0 | 603.2 | 598.8 | 595.1 |
| 37.5° | 1390.4 | 855.4 | 621.4 | 628.2 | 632.6 | 635.1 | 618.2 | 598.8 | 599.5 | 590.7 | 588.2 |
| 40° | 1445.4 | 846.6 | 605.1 | 608.2 | 608.8 | 617.0 | 596.3 | 586.9 | 591.3 | 585.7 | 589.4 |
| 42.5° | 1516.2 | 849.1 | 588.2 | 585.7 | 597.6 | 594.4 | 584.4 | 571.9 | 574.4 | 557.5 | 560.0 |
| 45° | 1553.7 | 866.0 | 578.2 | 566.9 | 580.1 | 579.4 | 566.3 | 554.4 | 539.4 | 506.8 | 508.1 |
| 47.5° | 1578.7 | 870.4 | 554.4 | 546.9 | 560.7 | 568.8 | 553.8 | 526.2 | 505.0 | 481.8 | 476.2 |
| 50° | 1604.4 | 878.5 | 543.1 | 527.5 | 533.1 | 552.5 | 533.8 | 507.5 | 486.8 | 466.2 | 469.3 |
| 52.5° | 1626.9 | 894.2 | 521.2 | 498.1 | 508.1 | 529.4 | 519.4 | 487.4 | 464.9 | 448.0 | 443.0 |
| 55° | 1727.0 | 929.2 | 484.3 | 454.3 | 478.1 | 505.0 | 499.3 | 460.5 | 436.1 | 427.4 | 426.1 |
| 56° | 1742.7 | 930.5 | 464.9 | 439.3 | 461.2 | 496.8 | 490.0 | 448.7 | 426.8 | 413.0 | 413.6 |
| 57.5° | 1745.2 | 915.4 | 437.4 | 425.5 | 444.3 | 484.9 | 476.2 | 439.3 | 409.2 | 396.7 | 393.0 |
| 60° | 1535.6 | 714.6 | 403.0 | 395.5 | 417.4 | 448.7 | 445.5 | 413.6 | 379.8 | 365.4 | 372.3 |
| 62.5° | 1046.9 | 523.7 | 376.1 | 374.8 | 386.1 | 416.7 | 408.6 | 379.8 | 351.7 | 342.3 | 337.9 |
| 65° | 609.5 | 397.3 | 349.8 | 344.8 | 354.2 | 370.4 | 376.1 | 346.0 | 316.6 | 310.4 | 308.5 |
| 67.5° | 359.8 | 328.5 | 316.0 | 307.9 | 304.7 | 314.7 | 319.1 | 301.6 | 272.2 | 263.4 | 270.9 |
| 70° | 301.0 | 292.2 | 292.8 | 279.1 | 271.6 | 264.7 | 260.9 | 245.3 | 220.9 | 209.6 | 206.5 |
| 72.5° | 259.7 | 255.9 | 253.4 | 240.9 | 234.0 | 218.4 | 202.1 | 186.5 | 168.3 | 158.9 | 159.6 |
| 75° | 198.4 | 197.1 | 198.4 | 192.1 | 180.2 | 167.7 | 152.7 | 132.7 | 118.9 | 107.0 | 109.5 |
| 77.5° | 118.3 | 122.0 | 123.9 | 121.4 | 116.4 | 105.1 | 95.7 | 82.6 | 69.5 | 60.1 | 58.8 |
| 80° | 81.3 | 84.5 | 87.6 | 84.5 | 79.5 | 71.3 | 61.3 | 51.3 | 41.9 | 36.9 | 35.7 |
| 82.5° | 61.9 | 65.1 | 67.0 | 63.8 | 57.6 | 48.8 | 41.9 | 35.0 | 27.5 | 22.5 | 21.3 |
| 85° | 22.5 | 25.7 | 25.0 | 30.0 | 32.5 | 31.3 | 26.9 | 20.6 | 15.6 | 11.3 | 10.6 |
| 87.5° | 6.3 | 5.6 | 6.3 | 6.3 | 6.3 | 5.6 | 5.0 | 5.0 | 5.0 | 3.1 | 2.5 |
| 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)