

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: P526086

Luminaire Tested: **GALN-SA1A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593 lumens
Efficiency: N/A
Efficacy: 108.9 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

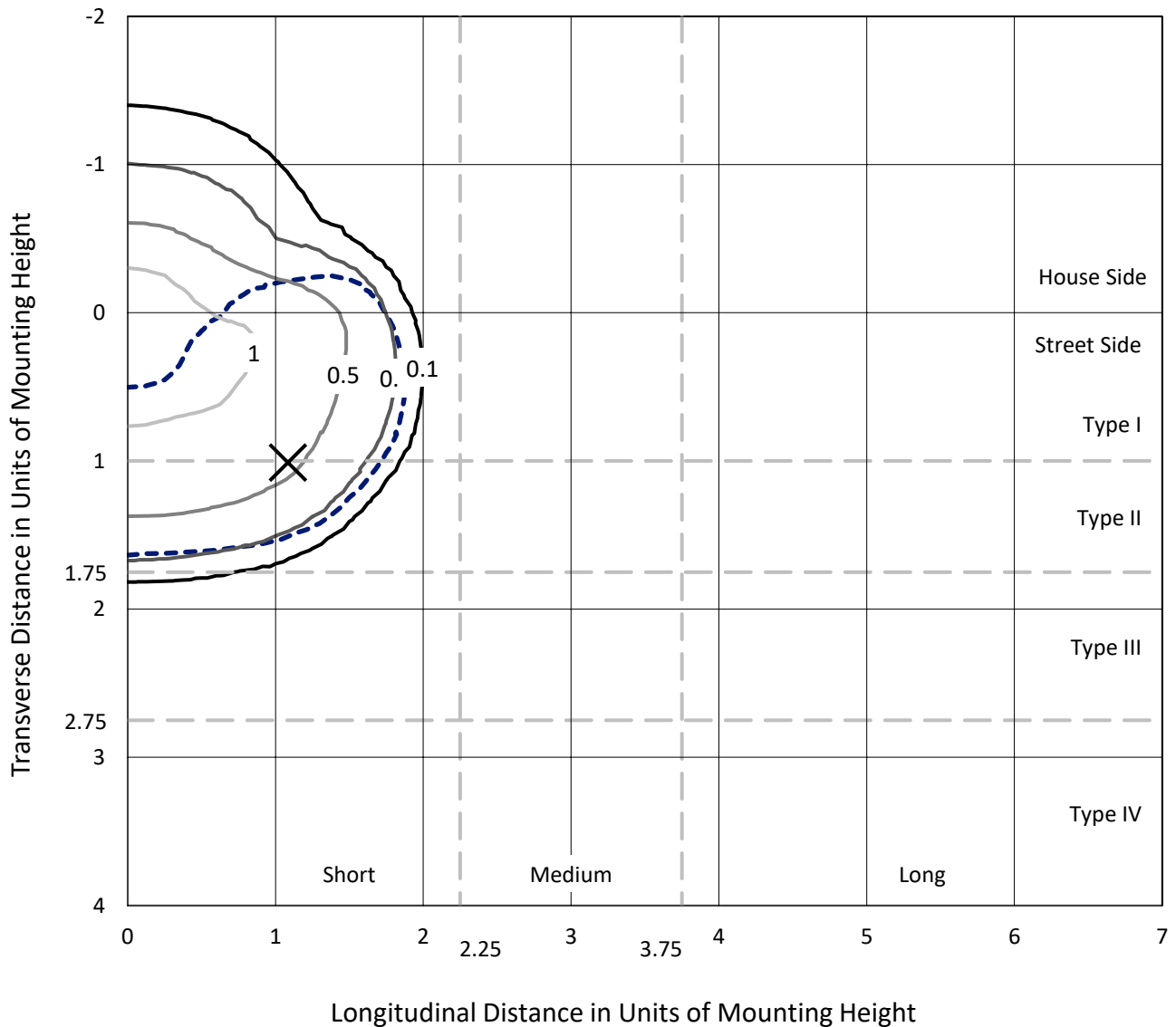
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

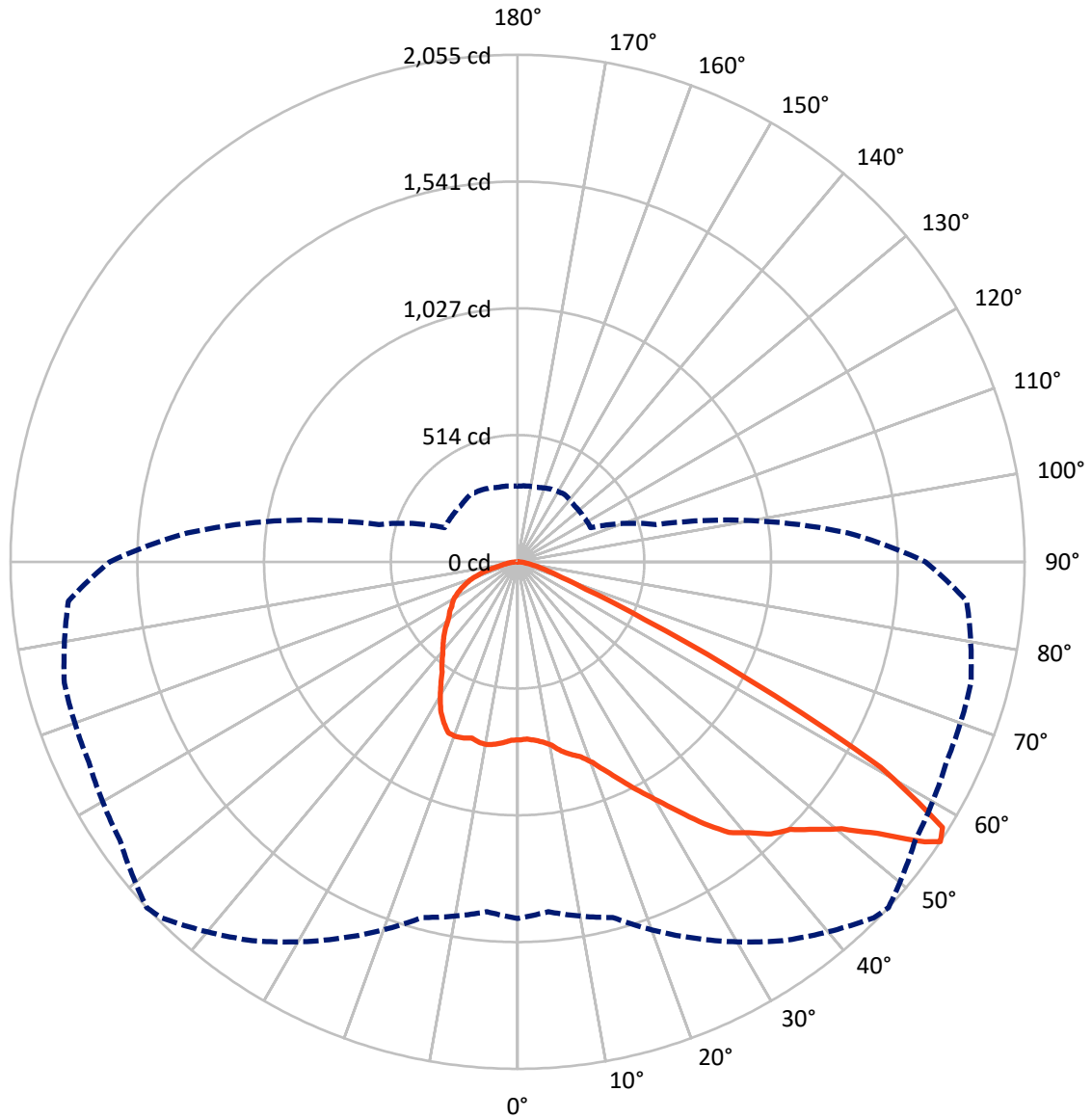
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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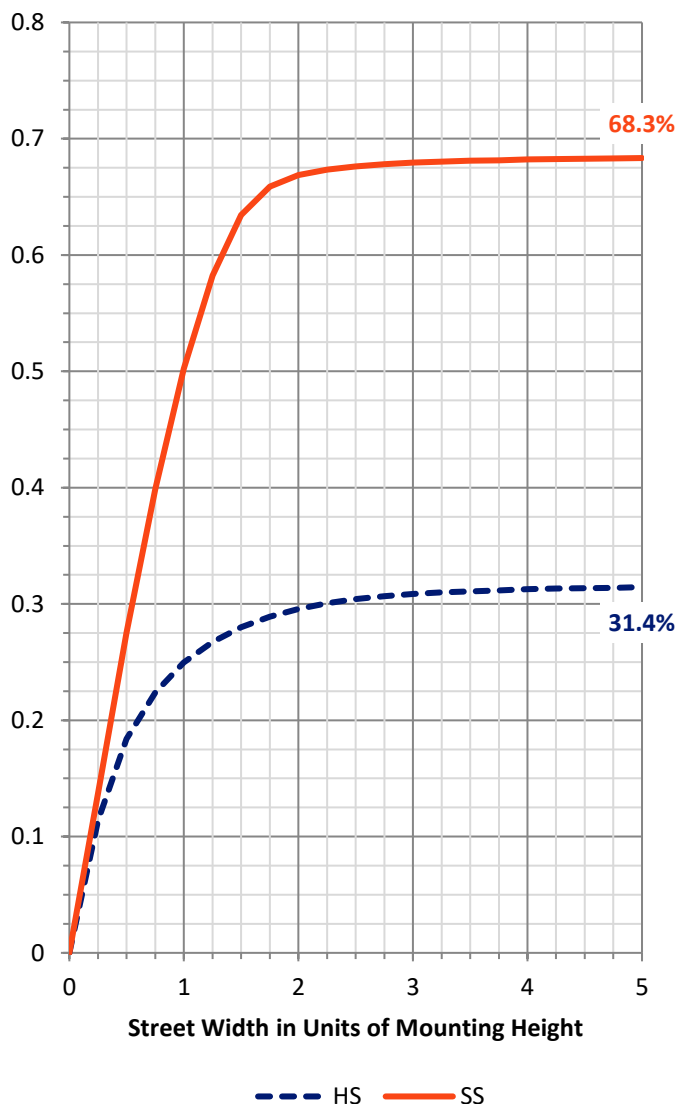
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1138.6 | 0.0 | 1138.6 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 2454.4 | 0.0 | 2454.4 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 3593.0 | 0.0 | 3593.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.3 | 2.0 |
| 10°-20° | 221.8 | 6.2 |
| 20°-30° | 392.1 | 10.9 |
| 30°-40° | 589.0 | 16.4 |
| 40°-50° | 808.3 | 22.5 |
| 50°-60° | 963.0 | 26.8 |
| 60°-70° | 412.1 | 11.5 |
| 70°-80° | 116.6 | 3.2 |
| 80°-90° | 19.6 | 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° | 3593.0 | 100.0 |
| 0°-180° | 3593.0 | 100.0 |

Coefficient of Utilization

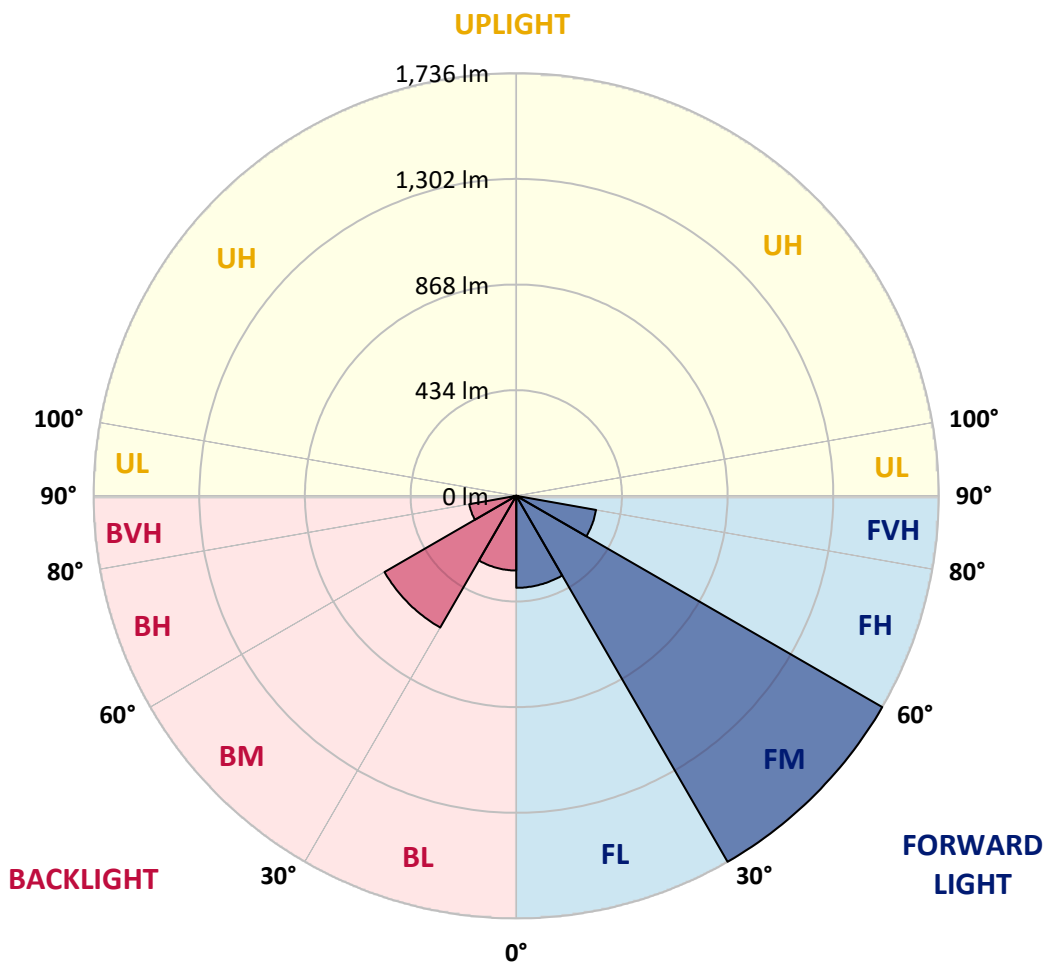


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 377.7 | 10.5 | | | |
| FM (30°-60°) | 1735.5 | 48.3 | | | |
| FH (60°-80°) | 332.8 | 9.3 | | | G0/660 |
| FVH (80°-90°) | 8.3 | 0.2 | | | G0/10 |
| BL (0°-30°) | 306.6 | 8.5 | B1/500 | | |
| BM (30°-60°) | 624.8 | 17.4 | B1/1000 | | |
| BH (60°-80°) | 195.9 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.3 | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 |
| 2.5° | 719.0 | 717.6 | 716.7 | 724.0 | 721.3 | 721.7 | 719.0 | 721.7 | 723.6 | 719.4 | 725.4 |
| 5° | 717.6 | 721.7 | 718.1 | 720.3 | 726.3 | 724.5 | 726.3 | 731.8 | 730.4 | 729.1 | 727.2 |
| 7.5° | 730.4 | 730.9 | 733.6 | 734.6 | 736.4 | 734.6 | 737.3 | 742.3 | 741.0 | 733.2 | 734.1 |
| 10° | 748.8 | 749.7 | 750.1 | 755.2 | 758.4 | 758.8 | 755.6 | 751.1 | 750.6 | 761.1 | 753.8 |
| 12.5° | 769.8 | 767.5 | 773.0 | 774.9 | 778.5 | 782.7 | 786.8 | 777.2 | 783.1 | 783.6 | 774.9 |
| 15° | 800.5 | 802.8 | 796.4 | 796.4 | 797.8 | 798.3 | 809.7 | 805.1 | 804.2 | 799.2 | 802.8 |
| 17.5° | 846.4 | 830.8 | 830.3 | 823.9 | 823.0 | 826.7 | 830.8 | 834.5 | 846.8 | 836.7 | 817.0 |
| 20° | 879.8 | 883.5 | 870.2 | 862.4 | 863.8 | 872.0 | 867.9 | 884.4 | 893.1 | 876.6 | 857.4 |
| 22.5° | 938.9 | 926.6 | 929.8 | 912.4 | 913.7 | 922.4 | 922.0 | 938.9 | 944.0 | 917.9 | 889.9 |
| 25° | 978.8 | 975.6 | 978.3 | 964.6 | 966.4 | 973.3 | 984.3 | 1012.2 | 1004.0 | 975.1 | 910.5 |
| 27.5° | 1037.0 | 1030.6 | 1028.3 | 1023.2 | 1021.4 | 1039.7 | 1052.6 | 1082.4 | 1076.4 | 1034.2 | 947.2 |
| 30° | 1096.6 | 1092.4 | 1094.7 | 1074.1 | 1081.4 | 1120.4 | 1124.1 | 1164.8 | 1162.1 | 1087.9 | 988.0 |
| 32.5° | 1137.8 | 1140.1 | 1144.2 | 1132.8 | 1165.3 | 1196.5 | 1208.8 | 1255.1 | 1257.4 | 1180.0 | 1066.8 |
| 35° | 1204.2 | 1196.5 | 1198.8 | 1212.0 | 1227.2 | 1284.0 | 1304.1 | 1334.8 | 1354.1 | 1276.7 | 1142.4 |
| 37.5° | 1245.9 | 1254.2 | 1244.6 | 1265.7 | 1305.1 | 1373.3 | 1391.7 | 1423.3 | 1443.4 | 1372.0 | 1245.5 |
| 40° | 1311.0 | 1297.7 | 1304.6 | 1319.7 | 1360.0 | 1448.9 | 1443.9 | 1476.4 | 1482.9 | 1453.1 | 1341.7 |
| 42.5° | 1381.1 | 1374.7 | 1365.1 | 1399.5 | 1433.4 | 1498.0 | 1508.1 | 1492.9 | 1525.5 | 1532.3 | 1479.2 |
| 45° | 1465.0 | 1472.8 | 1474.2 | 1475.1 | 1504.9 | 1561.2 | 1547.5 | 1534.2 | 1571.8 | 1621.7 | 1564.4 |
| 47.5° | 1542.9 | 1518.1 | 1536.0 | 1560.8 | 1602.9 | 1603.4 | 1619.4 | 1587.8 | 1627.7 | 1672.1 | 1641.4 |
| 50° | 1569.0 | 1557.1 | 1580.9 | 1627.7 | 1692.7 | 1699.6 | 1701.4 | 1656.5 | 1677.2 | 1712.4 | 1668.0 |
| 52.5° | 1558.9 | 1554.8 | 1615.7 | 1688.1 | 1783.5 | 1818.3 | 1827.5 | 1772.0 | 1783.5 | 1767.4 | 1726.6 |
| 55° | 1510.8 | 1523.2 | 1584.6 | 1732.1 | 1878.3 | 1986.0 | 2003.4 | 1933.3 | 1860.4 | 1872.8 | 1827.9 |
| 56° | 1444.8 | 1423.3 | 1492.0 | 1682.2 | 1874.2 | 2040.5 | 2054.7 | 1967.2 | 1917.7 | 1901.7 | 1827.0 |
| 57.5° | 1225.8 | 1197.8 | 1288.1 | 1513.6 | 1770.2 | 2019.9 | 2030.5 | 1981.4 | 1908.1 | 1875.6 | 1693.6 |
| 60° | 717.6 | 731.3 | 845.9 | 1043.9 | 1365.5 | 1656.1 | 1691.4 | 1727.1 | 1678.1 | 1532.3 | 1260.6 |
| 62.5° | 346.4 | 337.7 | 419.7 | 598.5 | 832.2 | 1057.2 | 1046.6 | 1147.0 | 1202.0 | 1088.8 | 796.0 |
| 65° | 181.5 | 180.5 | 229.1 | 326.7 | 457.3 | 555.4 | 565.0 | 619.1 | 694.7 | 560.9 | 404.2 |
| 67.5° | 133.3 | 137.0 | 161.3 | 229.6 | 294.2 | 300.1 | 298.8 | 325.8 | 333.1 | 281.8 | 248.4 |
| 70° | 104.5 | 106.3 | 124.2 | 174.6 | 219.0 | 196.1 | 192.0 | 195.2 | 216.7 | 225.9 | 214.9 |
| 72.5° | 75.6 | 77.4 | 92.6 | 117.8 | 137.0 | 133.8 | 136.6 | 154.4 | 181.0 | 190.6 | 179.2 |
| 75° | 50.4 | 51.8 | 60.0 | 71.9 | 81.1 | 87.5 | 92.6 | 113.2 | 137.9 | 143.4 | 137.9 |
| 77.5° | 34.8 | 36.2 | 41.7 | 50.9 | 51.8 | 55.9 | 57.7 | 67.4 | 82.5 | 89.4 | 85.7 |
| 80° | 19.7 | 19.7 | 22.5 | 26.1 | 32.1 | 37.6 | 38.5 | 46.3 | 53.2 | 57.7 | 58.7 |
| 82.5° | 9.2 | 9.6 | 11.9 | 16.0 | 21.1 | 26.1 | 27.0 | 32.1 | 37.1 | 41.7 | 43.1 |
| 85° | 4.6 | 5.0 | 6.9 | 9.6 | 12.8 | 15.6 | 15.1 | 15.6 | 16.5 | 15.6 | 16.0 |
| 87.5° | 1.4 | 1.4 | 1.8 | 2.3 | 1.8 | 2.3 | 2.3 | 2.7 | 3.2 | 3.7 | 4.1 |
| 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° | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 | 721.7 |
| 2.5° | 725.8 | 727.2 | 718.1 | 726.8 | 723.6 | 723.1 | 729.5 | 728.6 | 730.9 | 730.0 | 724.5 |
| 5° | 726.3 | 723.1 | 732.7 | 724.0 | 728.1 | 736.8 | 730.9 | 744.6 | 737.8 | 742.3 | 732.3 |
| 7.5° | 740.5 | 741.4 | 739.6 | 743.3 | 741.4 | 745.6 | 742.3 | 745.6 | 740.1 | 740.5 | 749.7 |
| 10° | 752.9 | 750.1 | 753.3 | 748.8 | 752.0 | 750.6 | 743.3 | 741.0 | 742.8 | 740.5 | 746.5 |
| 12.5° | 775.8 | 770.8 | 768.5 | 763.0 | 759.3 | 745.6 | 734.1 | 727.7 | 736.4 | 737.8 | 735.0 |
| 15° | 799.2 | 799.6 | 789.1 | 776.7 | 753.8 | 733.2 | 735.9 | 738.2 | 738.2 | 741.9 | 735.0 |
| 17.5° | 813.8 | 813.8 | 804.2 | 779.5 | 756.1 | 744.2 | 741.4 | 734.1 | 727.7 | 726.8 | 726.3 |
| 20° | 839.5 | 831.7 | 809.7 | 779.0 | 755.2 | 749.7 | 729.1 | 711.6 | 698.4 | 693.8 | 693.3 |
| 22.5° | 868.8 | 849.1 | 818.4 | 779.9 | 753.8 | 746.0 | 707.5 | 681.4 | 657.6 | 647.5 | 648.9 |
| 25° | 895.9 | 864.2 | 823.5 | 775.8 | 748.8 | 711.2 | 668.1 | 631.9 | 607.2 | 598.9 | 594.8 |
| 27.5° | 914.6 | 880.3 | 823.5 | 779.5 | 730.0 | 672.2 | 628.2 | 582.0 | 560.4 | 554.9 | 555.8 |
| 30° | 939.8 | 900.4 | 837.7 | 771.7 | 692.4 | 621.8 | 569.1 | 538.9 | 526.1 | 521.5 | 524.7 |
| 32.5° | 999.0 | 953.1 | 857.4 | 752.9 | 647.9 | 571.4 | 528.8 | 511.9 | 493.1 | 483.9 | 480.7 |
| 35° | 1063.1 | 1003.1 | 876.6 | 721.3 | 598.0 | 525.6 | 499.0 | 483.4 | 461.0 | 450.9 | 452.7 |
| 37.5° | 1153.8 | 1067.2 | 878.0 | 669.0 | 543.9 | 499.9 | 475.7 | 451.4 | 433.0 | 417.5 | 412.9 |
| 40° | 1276.2 | 1154.8 | 874.8 | 614.0 | 500.4 | 469.7 | 451.8 | 421.6 | 401.0 | 390.0 | 392.3 |
| 42.5° | 1383.9 | 1257.4 | 861.5 | 551.7 | 461.0 | 449.1 | 428.9 | 399.1 | 379.0 | 367.5 | 366.6 |
| 45° | 1474.6 | 1333.0 | 836.3 | 498.6 | 428.0 | 426.2 | 402.8 | 379.9 | 363.8 | 353.3 | 357.9 |
| 47.5° | 1558.5 | 1394.0 | 798.3 | 445.4 | 397.8 | 401.4 | 379.0 | 364.8 | 354.7 | 345.1 | 344.6 |
| 50° | 1588.7 | 1393.0 | 764.8 | 401.4 | 373.5 | 371.6 | 370.7 | 355.6 | 345.1 | 336.8 | 340.5 |
| 52.5° | 1639.1 | 1408.6 | 728.6 | 371.2 | 351.5 | 351.9 | 355.1 | 344.1 | 332.2 | 327.2 | 331.8 |
| 55° | 1711.5 | 1410.9 | 648.9 | 335.9 | 333.1 | 336.3 | 336.3 | 329.0 | 318.9 | 314.8 | 312.5 |
| 56° | 1652.4 | 1342.6 | 582.0 | 326.7 | 324.0 | 324.0 | 332.7 | 324.4 | 312.1 | 308.9 | 306.1 |
| 57.5° | 1524.1 | 1176.3 | 487.1 | 315.7 | 311.6 | 318.0 | 322.6 | 313.9 | 302.4 | 297.9 | 300.6 |
| 60° | 1051.2 | 796.0 | 366.1 | 291.9 | 291.9 | 302.4 | 306.1 | 293.3 | 288.2 | 287.8 | 284.1 |
| 62.5° | 613.6 | 463.7 | 286.4 | 270.4 | 271.3 | 280.0 | 282.7 | 275.4 | 269.0 | 276.8 | 280.4 |
| 65° | 325.3 | 276.8 | 245.6 | 247.4 | 247.9 | 254.8 | 266.7 | 266.2 | 265.8 | 268.1 | 268.5 |
| 67.5° | 235.5 | 230.0 | 223.2 | 221.3 | 222.2 | 227.3 | 239.2 | 248.4 | 247.9 | 242.4 | 238.3 |
| 70° | 209.9 | 202.1 | 198.0 | 198.4 | 194.8 | 200.7 | 210.3 | 216.3 | 205.7 | 199.3 | 196.6 |
| 72.5° | 174.6 | 172.3 | 169.5 | 170.0 | 162.7 | 161.3 | 150.3 | 150.3 | 147.6 | 145.7 | 148.9 |
| 75° | 133.3 | 132.4 | 133.8 | 131.5 | 123.7 | 115.5 | 109.1 | 103.1 | 93.9 | 90.3 | 88.4 |
| 77.5° | 84.3 | 87.1 | 90.3 | 85.2 | 82.0 | 76.1 | 69.7 | 63.7 | 56.4 | 52.2 | 52.2 |
| 80° | 57.3 | 59.6 | 61.9 | 60.9 | 57.3 | 51.8 | 46.7 | 40.3 | 35.3 | 32.1 | 31.6 |
| 82.5° | 43.5 | 45.4 | 48.6 | 44.9 | 41.2 | 36.7 | 32.5 | 28.0 | 23.4 | 19.7 | 19.7 |
| 85° | 15.6 | 17.9 | 19.7 | 21.5 | 22.9 | 23.4 | 20.2 | 16.5 | 13.3 | 10.5 | 10.1 |
| 87.5° | 4.1 | 4.6 | 5.0 | 4.6 | 4.6 | 4.6 | 5.0 | 4.6 | 4.1 | 3.2 | 3.2 |
| 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)