

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: P450924

Luminaire Tested: **GALN-SA1D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7066 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

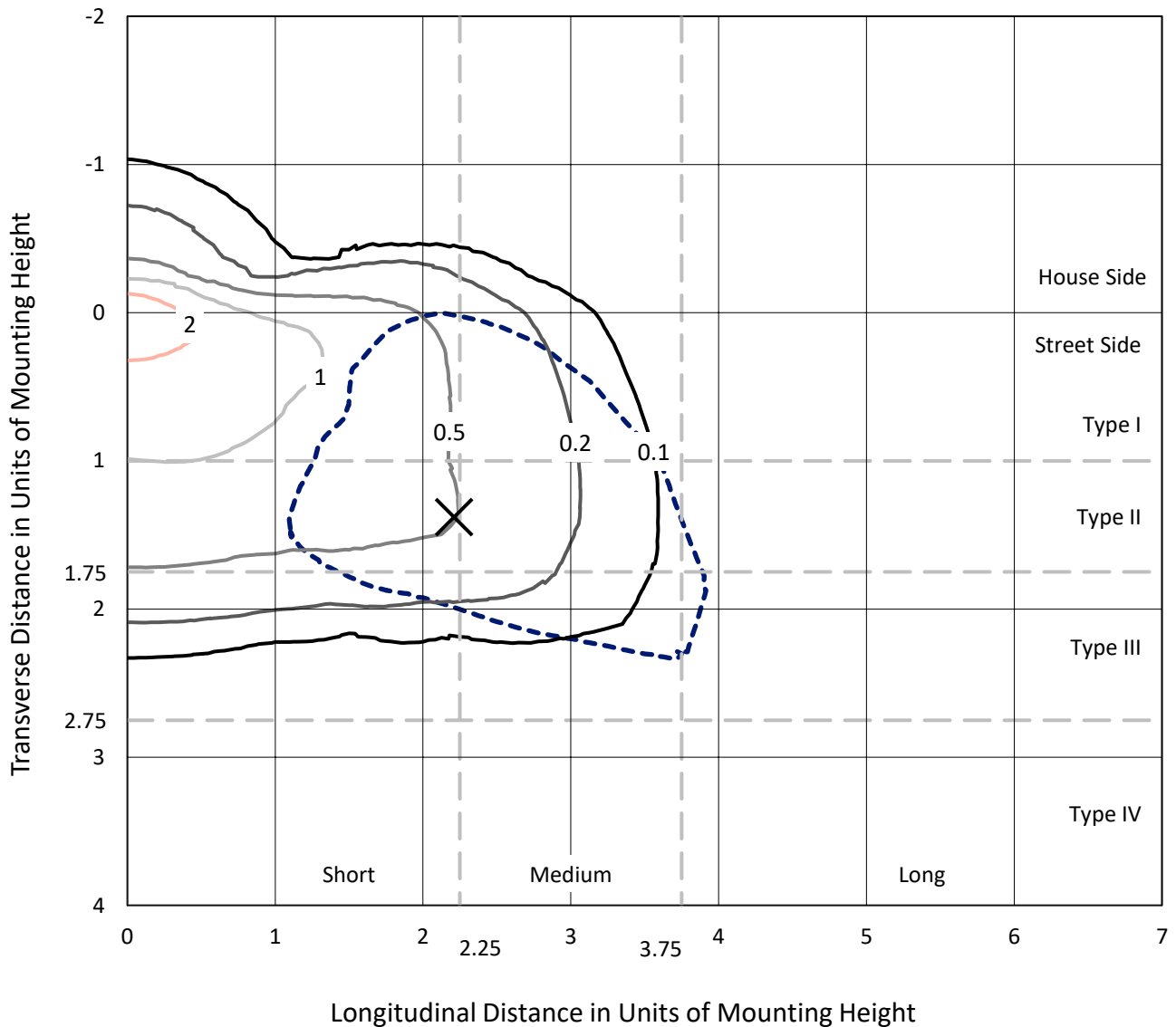
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

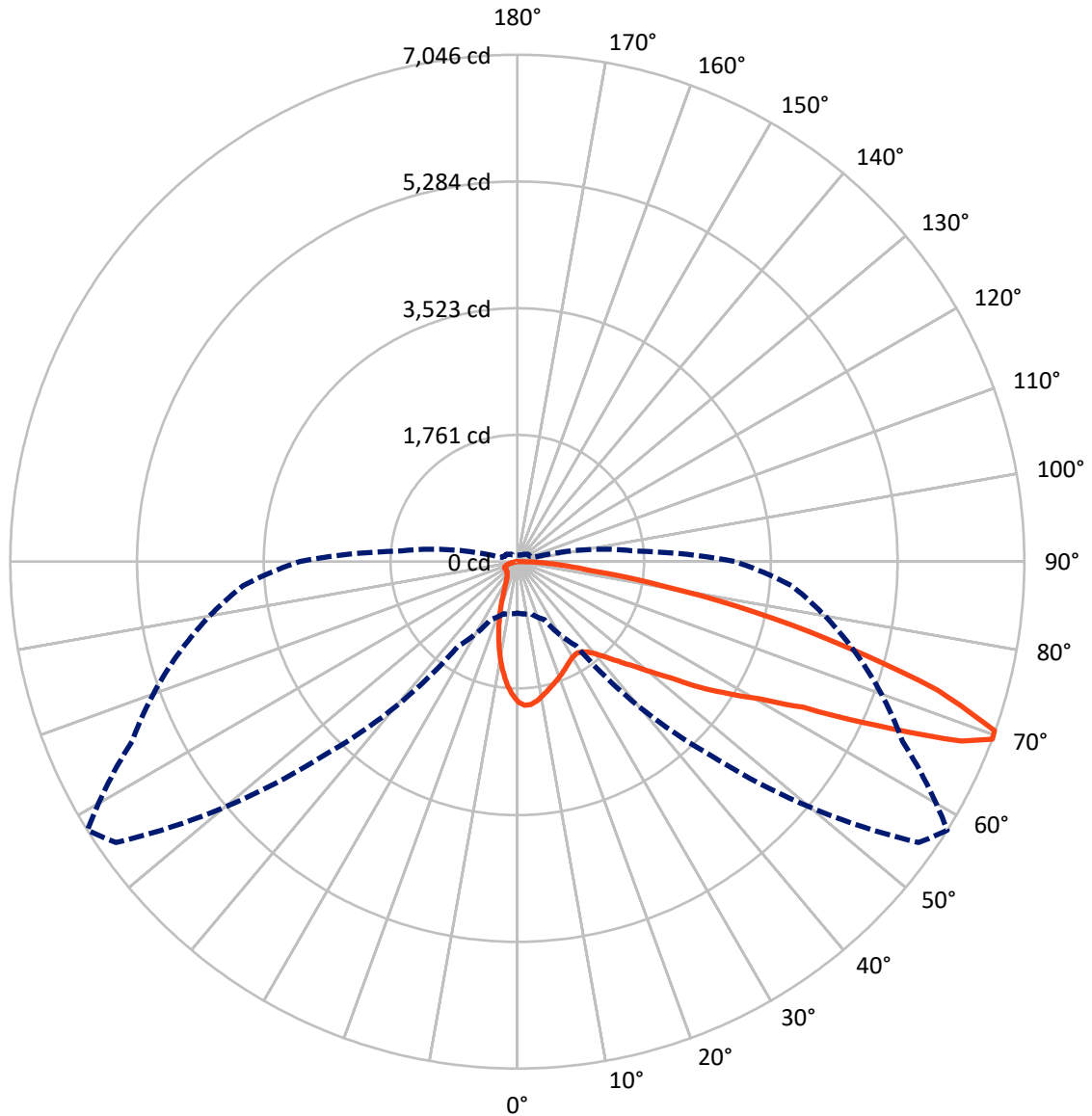
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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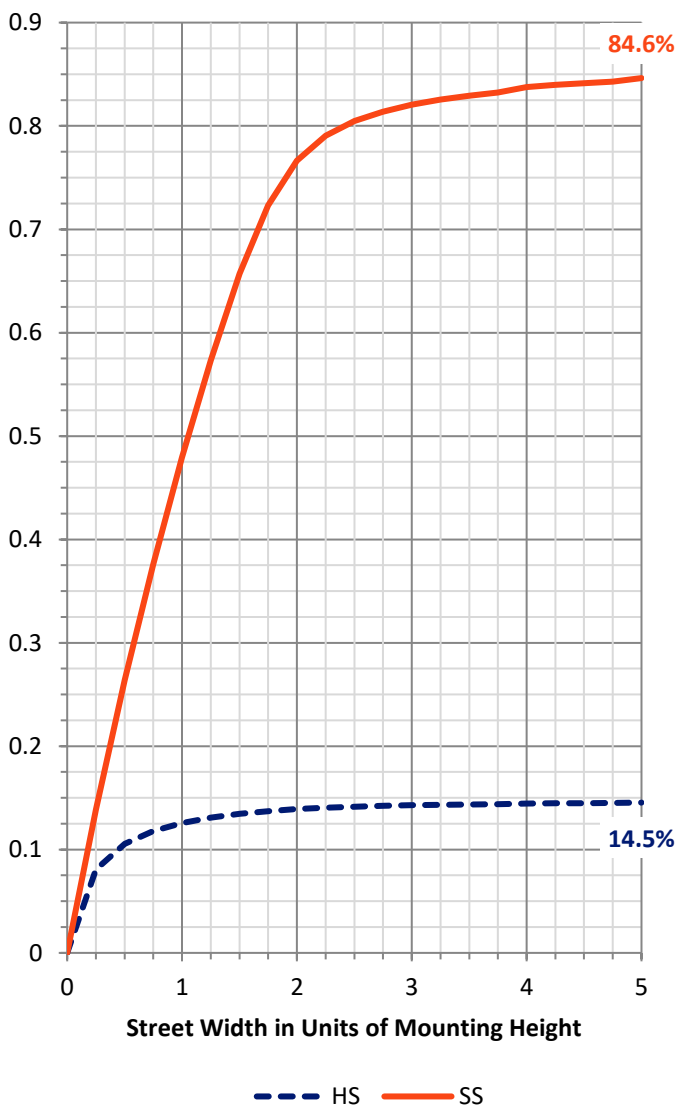
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1035.5 | 0.0 | 1035.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 6030.5 | 0.0 | 6030.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 7066.0 | 0.0 | 7066.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.8 | 2.3 |
| 10°-20° | 364.1 | 5.2 |
| 20°-30° | 470.5 | 6.7 |
| 30°-40° | 611.0 | 8.6 |
| 40°-50° | 888.3 | 12.6 |
| 50°-60° | 1417.5 | 20.1 |
| 60°-70° | 1893.6 | 26.8 |
| 70°-80° | 1091.6 | 15.4 |
| 80°-90° | 163.5 | 2.3 |
| 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° | 7066.0 | 100.0 |
| 0°-180° | 7066.0 | 100.0 |

Coefficient of Utilization



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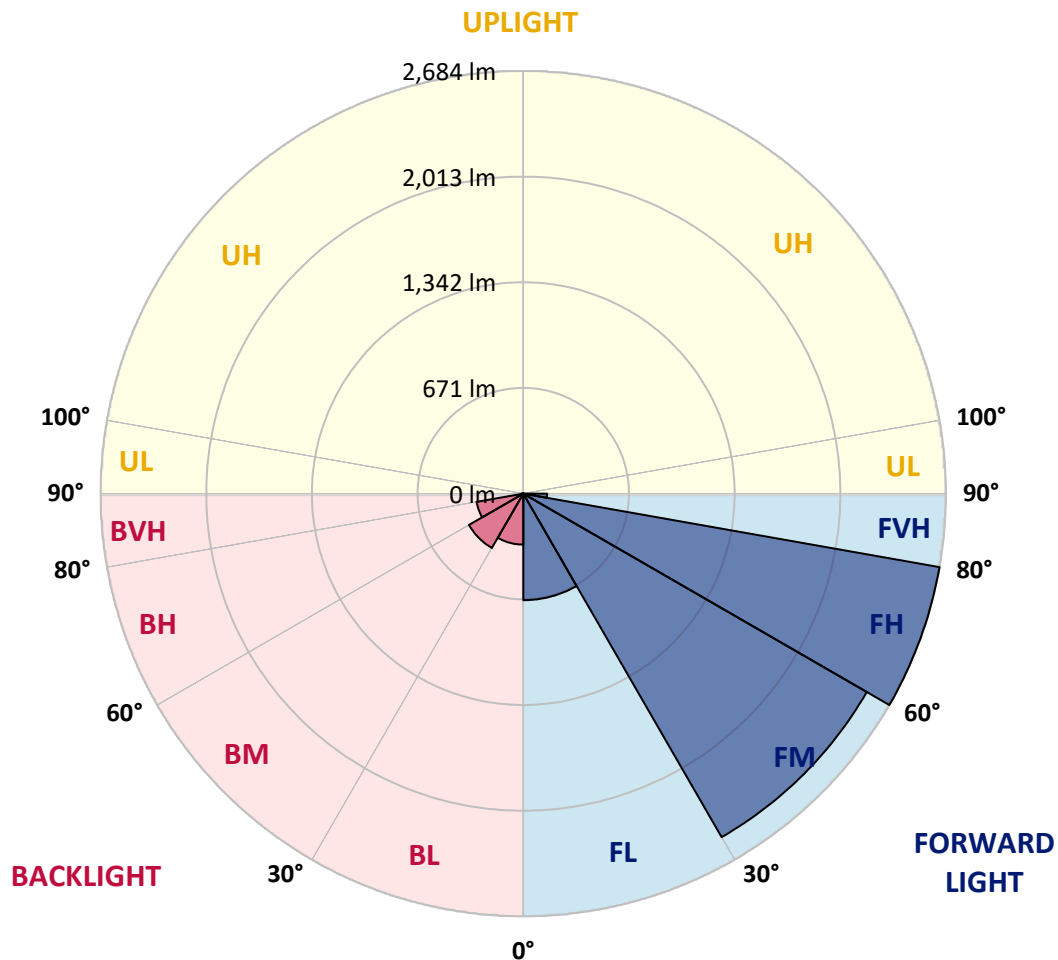
CATALOG NUMBER: GALN-SA1D-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 676.7 | 9.6 | | | |
| FM (30°-60°) | 2518.7 | 35.6 | | | |
| FH (60°-80°) | 2684.1 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 151.0 | 2.1 | | | G2/225 |
| BL (0°-30°) | 323.7 | 4.6 | B1/500 | | |
| BM (30°-60°) | 398.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 301.1 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 |
| 2.5° | 2025.1 | 2030.7 | 2029.1 | 2027.1 | 2024.0 | 2015.3 | 2001.1 | 1998.7 | 1989.7 | 1970.4 | 1946.3 |
| 5° | 1994.0 | 1998.7 | 1999.1 | 2001.9 | 2005.8 | 2004.3 | 1994.0 | 1992.8 | 1979.4 | 1953.4 | 1913.2 |
| 7.5° | 1887.2 | 1893.5 | 1907.3 | 1922.7 | 1936.5 | 1949.5 | 1952.6 | 1954.6 | 1946.3 | 1916.4 | 1862.8 |
| 10° | 1767.0 | 1773.3 | 1779.6 | 1802.5 | 1836.4 | 1868.7 | 1895.5 | 1899.0 | 1901.0 | 1873.4 | 1808.0 |
| 12.5° | 1633.8 | 1646.8 | 1660.2 | 1694.1 | 1739.4 | 1790.3 | 1837.6 | 1845.0 | 1858.4 | 1837.6 | 1760.7 |
| 15° | 1520.7 | 1534.1 | 1553.4 | 1583.8 | 1638.6 | 1711.9 | 1778.4 | 1790.7 | 1817.1 | 1806.4 | 1716.6 |
| 17.5° | 1442.3 | 1447.0 | 1460.4 | 1495.1 | 1554.2 | 1631.5 | 1720.5 | 1745.0 | 1787.1 | 1784.4 | 1678.7 |
| 20° | 1380.4 | 1386.3 | 1394.6 | 1415.9 | 1477.4 | 1559.0 | 1666.5 | 1698.1 | 1755.2 | 1764.7 | 1641.3 |
| 22.5° | 1354.4 | 1358.8 | 1357.6 | 1369.0 | 1410.8 | 1492.7 | 1611.8 | 1649.2 | 1726.8 | 1751.3 | 1606.6 |
| 25° | 1356.0 | 1359.9 | 1354.0 | 1351.3 | 1376.1 | 1434.4 | 1554.6 | 1602.3 | 1704.0 | 1742.2 | 1575.1 |
| 27.5° | 1382.4 | 1385.2 | 1374.1 | 1363.1 | 1365.1 | 1398.2 | 1507.3 | 1560.1 | 1684.7 | 1746.1 | 1548.7 |
| 30° | 1417.9 | 1423.0 | 1415.9 | 1402.5 | 1387.9 | 1389.5 | 1477.0 | 1529.0 | 1675.6 | 1759.9 | 1536.1 |
| 32.5° | 1463.6 | 1468.3 | 1465.2 | 1454.5 | 1435.6 | 1414.7 | 1469.5 | 1517.6 | 1676.4 | 1787.9 | 1533.3 |
| 35° | 1511.7 | 1521.1 | 1526.2 | 1525.5 | 1510.1 | 1473.8 | 1499.1 | 1538.9 | 1695.3 | 1834.8 | 1549.5 |
| 37.5° | 1566.0 | 1573.9 | 1596.0 | 1610.2 | 1596.0 | 1553.8 | 1565.6 | 1593.2 | 1737.1 | 1902.6 | 1585.0 |
| 40° | 1618.8 | 1630.7 | 1663.0 | 1707.1 | 1701.6 | 1664.6 | 1667.3 | 1685.4 | 1810.8 | 2003.5 | 1654.3 |
| 42.5° | 1674.0 | 1688.2 | 1744.6 | 1810.0 | 1823.0 | 1794.2 | 1801.7 | 1817.9 | 1915.6 | 2143.4 | 1773.3 |
| 45° | 1745.0 | 1761.9 | 1831.3 | 1912.8 | 1964.1 | 1946.3 | 1967.6 | 1975.5 | 2055.9 | 2325.4 | 1930.2 |
| 47.5° | 1836.4 | 1856.1 | 1941.6 | 2043.3 | 2115.8 | 2131.9 | 2169.0 | 2164.2 | 2229.7 | 2541.0 | 2133.5 |
| 50° | 1990.5 | 2001.5 | 2082.3 | 2185.9 | 2285.6 | 2358.5 | 2398.7 | 2406.2 | 2445.2 | 2750.6 | 2360.9 |
| 52.5° | 2173.7 | 2183.6 | 2241.9 | 2332.5 | 2457.4 | 2611.9 | 2711.2 | 2686.8 | 2696.2 | 3006.0 | 2626.9 |
| 55° | 2379.8 | 2396.4 | 2433.4 | 2493.7 | 2655.7 | 2883.0 | 3082.4 | 3088.3 | 2983.5 | 3250.3 | 2881.9 |
| 57.5° | 2539.4 | 2567.4 | 2630.8 | 2716.7 | 2922.0 | 3184.5 | 3452.5 | 3456.4 | 3322.4 | 3511.2 | 3163.2 |
| 60° | 2459.0 | 2492.1 | 2637.1 | 2846.4 | 3271.6 | 3710.6 | 3894.6 | 3872.2 | 3652.3 | 3808.3 | 3506.5 |
| 62.5° | 2112.2 | 2118.1 | 2329.0 | 2656.0 | 3379.2 | 4414.4 | 4552.7 | 4457.7 | 4092.4 | 4185.0 | 3855.2 |
| 65° | 1367.0 | 1405.7 | 1572.7 | 2031.0 | 3025.7 | 4804.9 | 5705.8 | 5486.3 | 4709.6 | 4612.6 | 4147.2 |
| 67.5° | 863.0 | 853.2 | 922.5 | 1159.8 | 2081.1 | 4460.9 | 6689.8 | 6655.1 | 5516.6 | 4882.6 | 4077.5 |
| 69° | 715.6 | 726.7 | 750.3 | 889.0 | 1432.1 | 3808.7 | 6806.0 | 7045.6 | 5907.9 | 4861.3 | 3824.1 |
| 70° | 649.0 | 654.2 | 679.0 | 788.1 | 1105.0 | 3190.0 | 6615.3 | 7035.0 | 6061.6 | 4772.2 | 3640.4 |
| 72.5° | 515.1 | 514.7 | 557.2 | 655.7 | 826.0 | 1821.0 | 5431.9 | 6107.7 | 5889.8 | 4357.7 | 3008.0 |
| 75° | 391.3 | 397.6 | 444.5 | 554.9 | 761.0 | 995.0 | 3790.6 | 4703.6 | 4704.0 | 3441.8 | 1877.0 |
| 77.5° | 282.2 | 286.1 | 340.9 | 465.8 | 716.8 | 806.7 | 2524.8 | 3373.7 | 3171.5 | 1577.1 | 589.9 |
| 80° | 184.8 | 187.2 | 229.0 | 368.9 | 646.3 | 761.0 | 1497.1 | 2064.9 | 1495.9 | 418.5 | 195.1 |
| 82.5° | 101.3 | 113.1 | 139.9 | 238.8 | 518.6 | 703.0 | 909.9 | 1045.1 | 561.2 | 186.4 | 101.7 |
| 85° | 50.8 | 54.0 | 78.8 | 139.5 | 338.9 | 581.7 | 633.7 | 599.4 | 289.6 | 92.6 | 52.8 |
| 87.5° | 15.0 | 18.9 | 32.7 | 54.0 | 137.5 | 303.0 | 352.7 | 316.4 | 111.5 | 33.5 | 11.0 |
| 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° | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 | 1952.6 |
| 2.5° | 1936.5 | 1929.4 | 1897.9 | 1869.5 | 1843.5 | 1815.9 | 1792.6 | 1772.1 | 1774.1 | 1774.5 | 1753.6 |
| 5° | 1892.3 | 1876.2 | 1816.3 | 1760.3 | 1713.0 | 1653.1 | 1601.9 | 1568.8 | 1552.3 | 1530.2 | 1538.1 |
| 7.5° | 1832.4 | 1801.3 | 1718.2 | 1625.2 | 1538.1 | 1460.4 | 1376.1 | 1318.2 | 1281.1 | 1245.3 | 1250.0 |
| 10° | 1770.6 | 1720.5 | 1599.5 | 1476.6 | 1363.9 | 1239.8 | 1132.2 | 1040.0 | 971.4 | 945.8 | 928.8 |
| 12.5° | 1707.1 | 1641.3 | 1487.6 | 1324.1 | 1168.4 | 1019.9 | 867.4 | 768.4 | 692.8 | 652.6 | 657.7 |
| 15° | 1649.2 | 1569.2 | 1371.0 | 1171.6 | 969.4 | 792.5 | 640.4 | 546.2 | 493.4 | 482.3 | 488.6 |
| 17.5° | 1595.6 | 1490.8 | 1261.8 | 1023.4 | 787.4 | 594.3 | 481.2 | 428.0 | 406.7 | 400.8 | 400.4 |
| 20° | 1540.4 | 1424.2 | 1139.3 | 865.0 | 613.6 | 460.7 | 394.9 | 370.0 | 366.1 | 368.5 | 368.9 |
| 22.5° | 1484.5 | 1341.8 | 1013.2 | 707.8 | 488.6 | 376.7 | 345.2 | 338.5 | 341.7 | 347.2 | 348.0 |
| 25° | 1432.8 | 1269.3 | 891.8 | 569.8 | 390.1 | 331.0 | 315.7 | 315.7 | 322.7 | 331.0 | 331.4 |
| 27.5° | 1390.3 | 1199.2 | 770.8 | 452.4 | 326.7 | 297.9 | 292.8 | 295.6 | 305.4 | 311.7 | 312.1 |
| 30° | 1355.2 | 1133.7 | 656.5 | 362.5 | 287.3 | 271.5 | 270.3 | 275.1 | 282.2 | 288.1 | 288.5 |
| 32.5° | 1328.8 | 1076.2 | 549.7 | 304.6 | 260.1 | 251.4 | 251.0 | 254.6 | 258.5 | 260.1 | 261.7 |
| 35° | 1318.6 | 1028.5 | 452.0 | 268.0 | 242.0 | 236.4 | 236.4 | 236.0 | 237.6 | 238.4 | 239.2 |
| 37.5° | 1326.8 | 991.9 | 376.3 | 244.3 | 228.6 | 224.6 | 222.3 | 219.9 | 219.1 | 219.1 | 219.5 |
| 40° | 1361.9 | 972.6 | 320.0 | 229.0 | 219.1 | 213.2 | 208.9 | 206.1 | 203.3 | 204.1 | 204.9 |
| 42.5° | 1436.4 | 976.1 | 281.8 | 218.7 | 210.8 | 202.6 | 196.2 | 193.1 | 191.1 | 193.5 | 193.1 |
| 45° | 1555.0 | 1011.6 | 257.3 | 211.6 | 202.6 | 191.9 | 186.0 | 182.8 | 182.8 | 186.4 | 187.6 |
| 47.5° | 1720.9 | 1079.4 | 244.3 | 206.1 | 196.2 | 183.6 | 177.7 | 175.4 | 176.2 | 182.1 | 182.5 |
| 50° | 1923.5 | 1197.2 | 242.0 | 203.3 | 193.1 | 177.7 | 171.0 | 168.7 | 170.6 | 176.9 | 177.7 |
| 52.5° | 2146.9 | 1348.9 | 253.4 | 203.7 | 190.3 | 174.2 | 165.5 | 162.0 | 163.9 | 169.1 | 170.6 |
| 55° | 2411.7 | 1538.9 | 282.9 | 205.3 | 186.4 | 172.2 | 161.6 | 153.7 | 156.1 | 159.6 | 160.0 |
| 57.5° | 2682.1 | 1778.4 | 335.0 | 205.7 | 183.2 | 168.7 | 154.9 | 144.6 | 144.6 | 147.0 | 148.2 |
| 60° | 3012.3 | 2039.3 | 403.5 | 206.1 | 183.6 | 163.5 | 145.8 | 134.4 | 132.8 | 134.0 | 134.4 |
| 62.5° | 3340.2 | 2257.6 | 415.0 | 204.9 | 187.6 | 158.4 | 136.0 | 124.1 | 121.4 | 121.0 | 120.2 |
| 65° | 3484.8 | 2217.1 | 340.1 | 199.4 | 191.9 | 155.3 | 128.1 | 114.3 | 109.6 | 108.0 | 108.0 |
| 67.5° | 3249.1 | 1875.4 | 255.8 | 191.9 | 189.2 | 152.1 | 120.6 | 106.0 | 100.5 | 97.3 | 97.3 |
| 69° | 3027.7 | 1668.1 | 229.7 | 186.8 | 182.1 | 147.0 | 115.9 | 101.7 | 95.0 | 91.4 | 90.2 |
| 70° | 2856.6 | 1525.5 | 218.7 | 182.5 | 175.4 | 141.1 | 112.3 | 98.5 | 91.0 | 87.1 | 86.3 |
| 72.5° | 2279.7 | 1196.8 | 191.5 | 165.9 | 149.4 | 118.6 | 99.7 | 88.7 | 81.6 | 77.2 | 76.1 |
| 75° | 1313.8 | 648.6 | 158.8 | 144.2 | 120.2 | 92.2 | 84.3 | 77.2 | 71.7 | 67.8 | 66.6 |
| 77.5° | 404.3 | 250.6 | 115.1 | 113.9 | 88.3 | 71.3 | 67.4 | 64.6 | 60.7 | 56.4 | 55.6 |
| 80° | 170.2 | 127.7 | 78.0 | 76.8 | 58.7 | 49.7 | 48.5 | 48.1 | 46.5 | 43.0 | 41.8 |
| 82.5° | 93.4 | 72.1 | 54.4 | 47.3 | 35.5 | 28.8 | 29.9 | 30.3 | 29.2 | 25.6 | 23.3 |
| 85° | 45.7 | 39.4 | 26.4 | 21.3 | 16.2 | 10.2 | 9.9 | 11.8 | 11.0 | 7.9 | 8.7 |
| 87.5° | 9.1 | 11.0 | 7.1 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 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)