

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: P458624

Luminaire Tested: **GALN-SA1D-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7462 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
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

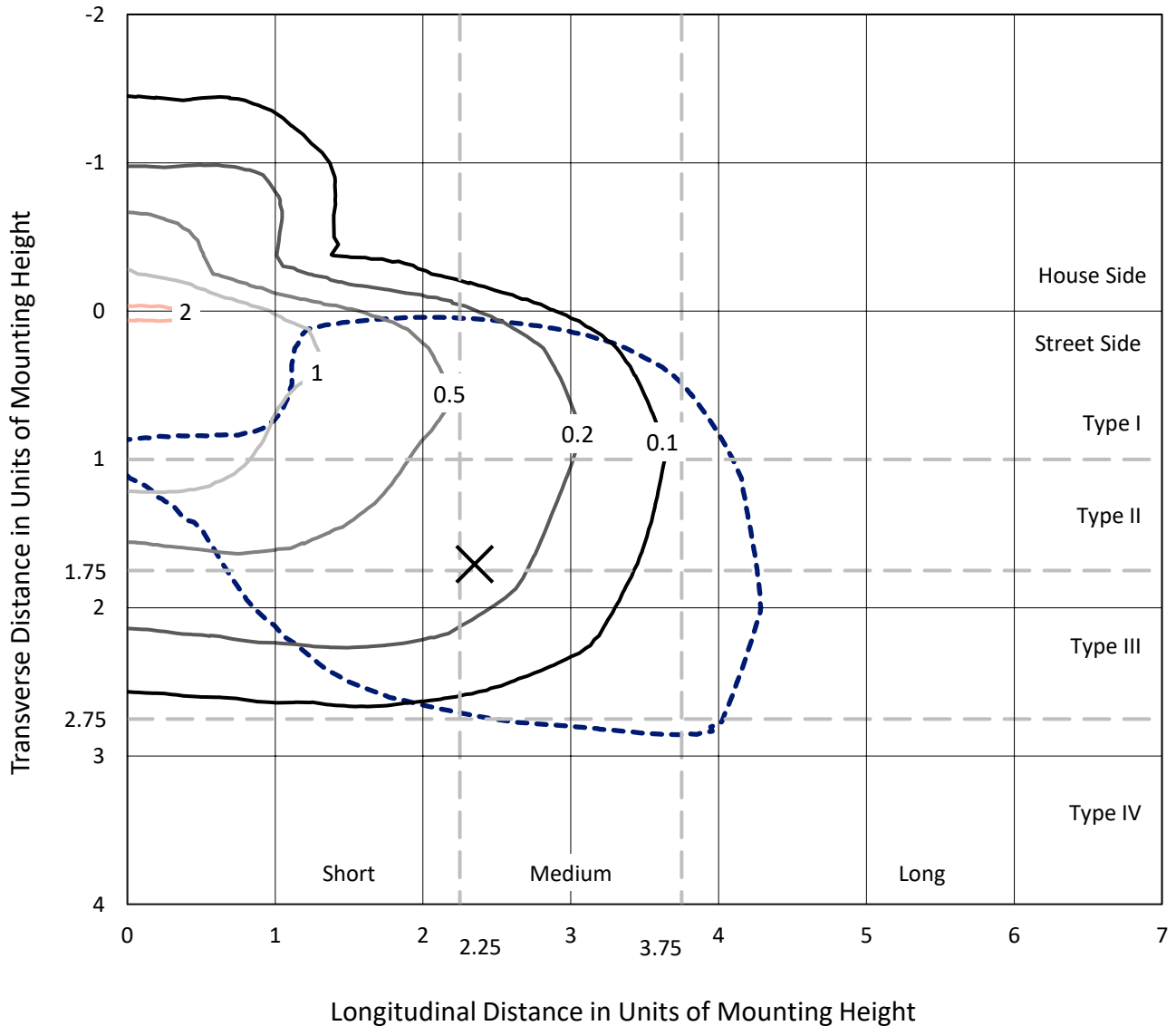




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Iso-Footcandle Lines of Horizontal Illumination

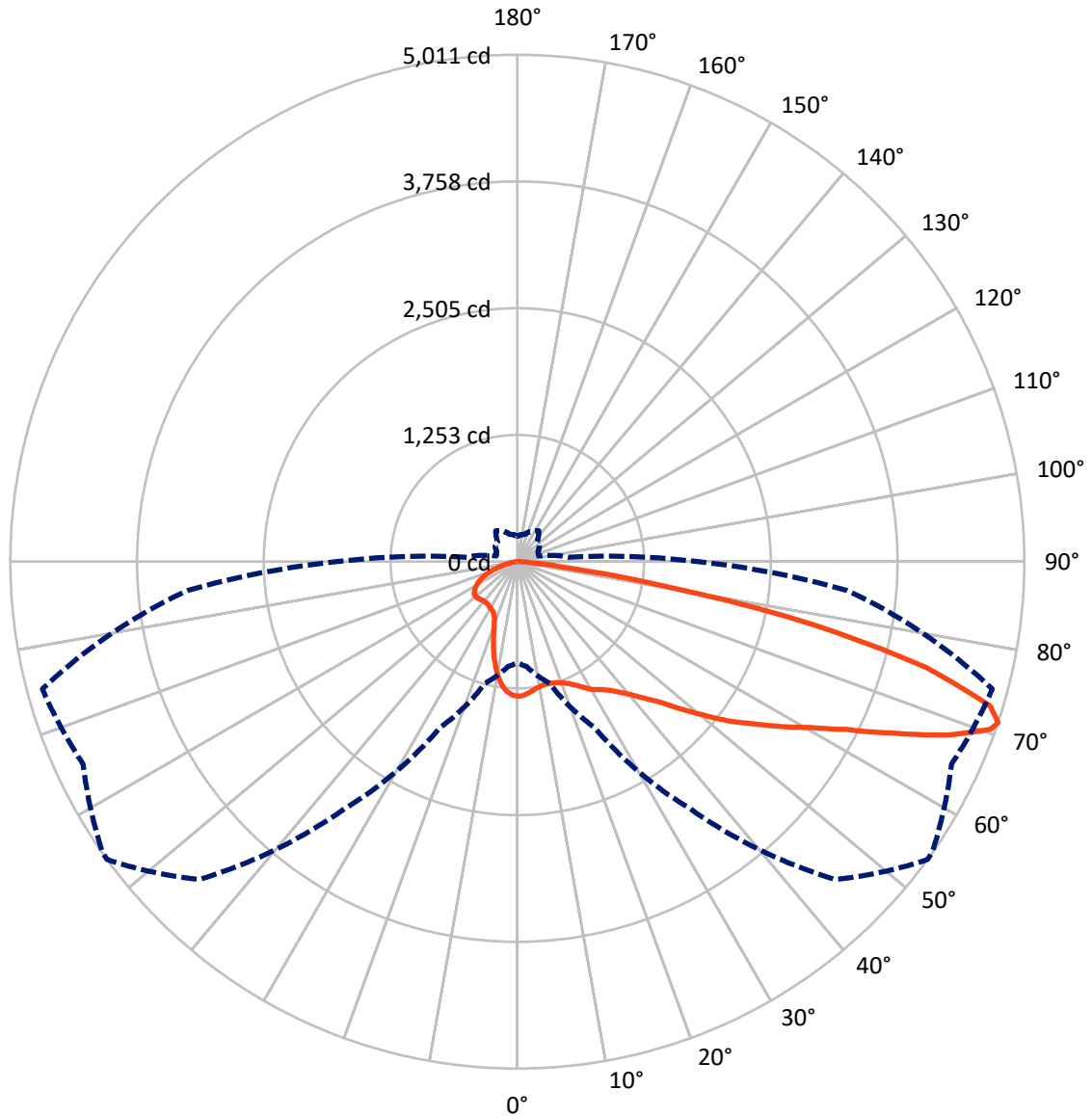
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1347.2 | 0.0 | 1347.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 6114.8 | 0.0 | 6114.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 7462.0 | 0.0 | 7462.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.6 | 1.6 |
| 10°-20° | 313.3 | 4.2 |
| 20°-30° | 521.6 | 7.0 |
| 30°-40° | 771.3 | 10.3 |
| 40°-50° | 1086.4 | 14.6 |
| 50°-60° | 1454.7 | 19.5 |
| 60°-70° | 1833.6 | 24.6 |
| 70°-80° | 1252.3 | 16.8 |
| 80°-90° | 110.1 | 1.5 |
| 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° | 7462.0 | 100.0 |
| 0°-180° | 7462.0 | 100.0 |

Coefficient of Utilization



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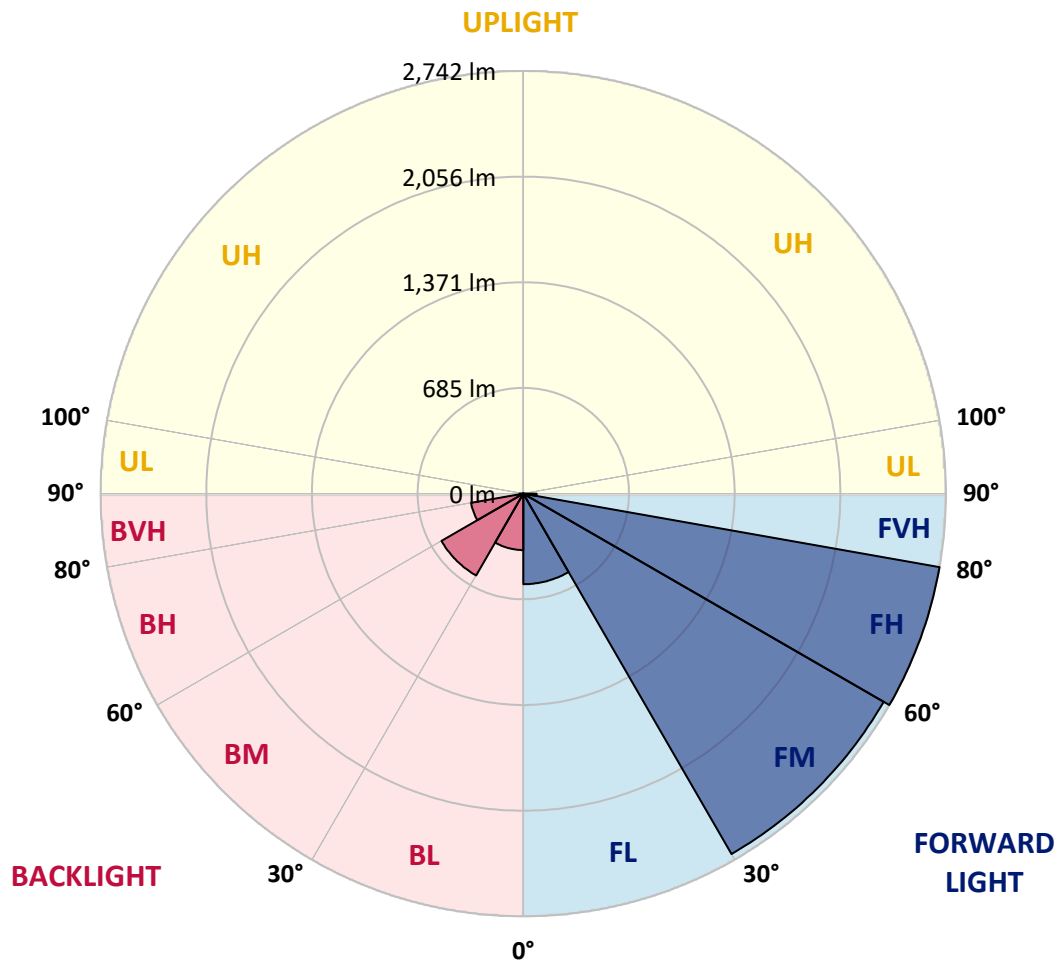
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 587.4 | 7.9 | | | |
| FM (30°-60°) | 2699.5 | 36.2 | | | |
| FH (60°-80°) | 2741.8 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 86.1 | 1.2 | | | G1/100 |
| BL (0°-30°) | 366.1 | 4.9 | B1/500 | | |
| BM (30°-60°) | 612.9 | 8.2 | B1/1000 | | |
| BH (60°-80°) | 344.1 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.0 | 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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 |
| 2.5° | 1286.2 | 1292.2 | 1293.8 | 1297.9 | 1306.3 | 1313.2 | 1320.0 | 1319.2 | 1328.9 | 1332.9 | 1336.6 |
| 5° | 1229.0 | 1230.6 | 1236.6 | 1244.7 | 1259.6 | 1278.5 | 1297.1 | 1297.5 | 1321.3 | 1340.2 | 1349.5 |
| 7.5° | 1187.0 | 1192.3 | 1196.3 | 1204.8 | 1220.5 | 1241.0 | 1270.5 | 1272.9 | 1315.2 | 1352.7 | 1372.4 |
| 10° | 1159.6 | 1165.7 | 1170.1 | 1180.6 | 1196.3 | 1219.3 | 1251.1 | 1255.6 | 1310.8 | 1372.4 | 1407.1 |
| 12.5° | 1134.6 | 1140.7 | 1144.7 | 1158.4 | 1179.0 | 1207.2 | 1243.1 | 1248.3 | 1312.4 | 1395.4 | 1445.0 |
| 15° | 1150.0 | 1154.8 | 1153.2 | 1157.2 | 1170.9 | 1203.2 | 1246.3 | 1251.5 | 1318.4 | 1417.6 | 1482.5 |
| 17.5° | 1218.1 | 1222.1 | 1208.8 | 1193.5 | 1187.0 | 1210.8 | 1256.4 | 1262.0 | 1330.5 | 1440.6 | 1520.8 |
| 20° | 1318.4 | 1329.3 | 1300.3 | 1266.0 | 1235.0 | 1238.2 | 1277.3 | 1283.4 | 1347.5 | 1463.5 | 1559.9 |
| 22.5° | 1449.0 | 1457.1 | 1421.6 | 1365.2 | 1308.0 | 1278.5 | 1308.8 | 1312.4 | 1372.8 | 1493.4 | 1602.6 |
| 25° | 1602.6 | 1607.4 | 1558.3 | 1485.7 | 1403.1 | 1347.5 | 1351.9 | 1358.3 | 1414.8 | 1527.2 | 1640.5 |
| 27.5° | 1751.7 | 1767.0 | 1710.2 | 1621.5 | 1512.7 | 1420.0 | 1411.1 | 1415.2 | 1460.3 | 1546.2 | 1666.7 |
| 30° | 1928.7 | 1927.5 | 1867.4 | 1764.6 | 1625.2 | 1499.0 | 1467.2 | 1466.4 | 1484.9 | 1555.4 | 1685.6 |
| 32.5° | 2069.8 | 2086.3 | 2027.4 | 1915.4 | 1753.7 | 1580.8 | 1505.9 | 1504.2 | 1503.8 | 1571.6 | 1713.8 |
| 35° | 2230.2 | 2232.6 | 2178.6 | 2065.7 | 1892.8 | 1683.6 | 1559.9 | 1551.8 | 1542.5 | 1606.2 | 1752.1 |
| 37.5° | 2373.7 | 2384.9 | 2335.4 | 2208.8 | 2029.4 | 1790.4 | 1634.0 | 1628.8 | 1600.6 | 1666.3 | 1813.4 |
| 40° | 2485.7 | 2494.2 | 2464.4 | 2343.8 | 2164.1 | 1905.7 | 1728.4 | 1718.7 | 1684.4 | 1764.6 | 1895.2 |
| 42.5° | 2522.4 | 2539.7 | 2551.4 | 2492.2 | 2318.8 | 2042.3 | 1844.4 | 1832.3 | 1806.1 | 1913.8 | 1989.5 |
| 45° | 2525.2 | 2552.6 | 2614.3 | 2617.1 | 2474.4 | 2206.0 | 1979.9 | 1971.4 | 1969.4 | 2104.8 | 2122.1 |
| 47.5° | 2503.9 | 2531.7 | 2635.3 | 2691.3 | 2613.1 | 2371.2 | 2175.4 | 2162.1 | 2163.3 | 2341.0 | 2270.9 |
| 50° | 2452.3 | 2485.3 | 2611.1 | 2738.8 | 2721.5 | 2543.0 | 2381.7 | 2377.3 | 2402.3 | 2610.7 | 2425.3 |
| 52.5° | 2355.1 | 2395.0 | 2586.1 | 2768.7 | 2802.1 | 2690.9 | 2616.3 | 2603.8 | 2667.1 | 2903.3 | 2594.1 |
| 55° | 2086.3 | 2146.3 | 2494.6 | 2785.2 | 2878.7 | 2832.4 | 2827.5 | 2850.1 | 2933.9 | 3222.5 | 2780.0 |
| 57.5° | 1946.0 | 1991.2 | 2295.9 | 2788.0 | 2975.4 | 2996.8 | 3074.2 | 3079.8 | 3226.6 | 3561.5 | 2990.0 |
| 60° | 1869.4 | 1909.3 | 2187.0 | 2769.5 | 3110.5 | 3200.4 | 3326.5 | 3346.7 | 3512.3 | 3928.7 | 3207.6 |
| 62.5° | 1802.5 | 1836.8 | 2121.7 | 2705.4 | 3262.8 | 3502.3 | 3653.4 | 3663.1 | 3836.8 | 4334.2 | 3422.4 |
| 65° | 1644.9 | 1684.0 | 1990.3 | 2641.3 | 3394.2 | 3879.5 | 4087.1 | 4075.8 | 4182.2 | 4684.0 | 3557.1 |
| 67.5° | 1432.5 | 1482.1 | 1744.9 | 2420.0 | 3459.1 | 4291.9 | 4575.6 | 4561.5 | 4523.2 | 4913.4 | 3595.8 |
| 70° | 1161.2 | 1187.8 | 1430.9 | 2037.5 | 3200.0 | 4508.3 | 4961.4 | 4946.4 | 4734.4 | 4943.6 | 3412.8 |
| 71° | 999.2 | 1040.7 | 1245.9 | 1809.8 | 2984.3 | 4442.2 | 5010.9 | 5006.9 | 4734.8 | 4860.2 | 3274.9 |
| 72.5° | 779.9 | 805.3 | 986.7 | 1402.3 | 2536.5 | 4066.5 | 4888.4 | 4903.7 | 4632.0 | 4628.4 | 2990.8 |
| 75° | 493.4 | 504.6 | 619.1 | 825.5 | 1391.8 | 2879.9 | 4173.0 | 4214.5 | 4112.9 | 3788.4 | 2224.1 |
| 77.5° | 286.6 | 301.1 | 370.8 | 486.5 | 601.4 | 1563.1 | 2985.9 | 3031.1 | 2857.7 | 2085.9 | 910.5 |
| 80° | 166.9 | 183.0 | 244.3 | 282.6 | 276.1 | 580.0 | 1520.4 | 1597.4 | 1237.4 | 526.8 | 255.5 |
| 82.5° | 92.7 | 103.6 | 171.7 | 172.1 | 147.1 | 189.4 | 478.4 | 500.6 | 353.1 | 212.4 | 104.4 |
| 85° | 67.3 | 76.2 | 110.8 | 100.4 | 70.5 | 81.4 | 166.5 | 174.5 | 142.7 | 89.5 | 33.9 |
| 87.5° | 23.8 | 33.9 | 60.9 | 48.4 | 19.3 | 16.9 | 48.0 | 39.1 | 36.3 | 25.0 | 7.7 |
| 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° | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 | 1331.3 |
| 2.5° | 1338.6 | 1339.4 | 1335.4 | 1328.1 | 1320.9 | 1311.6 | 1301.1 | 1293.0 | 1289.4 | 1289.0 | 1288.6 |
| 5° | 1353.1 | 1355.1 | 1339.8 | 1317.2 | 1292.2 | 1261.6 | 1235.4 | 1205.6 | 1197.9 | 1185.8 | 1189.5 |
| 7.5° | 1376.5 | 1375.3 | 1345.0 | 1297.1 | 1238.6 | 1173.7 | 1118.9 | 1087.1 | 1054.0 | 1044.8 | 1045.2 |
| 10° | 1409.9 | 1402.3 | 1345.0 | 1256.0 | 1158.4 | 1062.1 | 985.5 | 937.1 | 910.9 | 889.2 | 881.1 |
| 12.5° | 1445.4 | 1426.1 | 1332.1 | 1198.3 | 1055.2 | 937.1 | 854.9 | 789.6 | 772.7 | 754.9 | 755.3 |
| 15° | 1479.3 | 1447.0 | 1306.7 | 1117.3 | 944.0 | 803.7 | 723.9 | 684.8 | 679.6 | 681.6 | 681.2 |
| 17.5° | 1509.9 | 1461.9 | 1268.0 | 1027.0 | 814.2 | 689.2 | 646.9 | 649.7 | 663.9 | 673.9 | 675.1 |
| 20° | 1540.9 | 1470.8 | 1210.4 | 906.1 | 691.7 | 619.9 | 621.5 | 643.7 | 665.1 | 678.8 | 680.8 |
| 22.5° | 1570.4 | 1474.8 | 1142.7 | 789.2 | 603.0 | 590.5 | 614.3 | 638.1 | 659.0 | 672.3 | 674.3 |
| 25° | 1589.7 | 1465.6 | 1046.8 | 667.1 | 559.5 | 580.0 | 605.0 | 625.2 | 642.9 | 656.6 | 659.8 |
| 27.5° | 1594.9 | 1435.7 | 927.9 | 568.3 | 539.3 | 569.9 | 592.9 | 607.8 | 621.5 | 634.4 | 636.8 |
| 30° | 1592.1 | 1391.8 | 797.3 | 510.3 | 527.6 | 558.2 | 576.0 | 586.9 | 603.4 | 613.5 | 615.5 |
| 32.5° | 1587.7 | 1340.6 | 661.0 | 479.2 | 517.9 | 547.4 | 557.8 | 567.5 | 567.1 | 563.1 | 565.9 |
| 35° | 1589.3 | 1279.3 | 550.6 | 460.7 | 509.5 | 539.3 | 548.2 | 536.1 | 501.4 | 499.8 | 498.2 |
| 37.5° | 1597.8 | 1218.9 | 470.4 | 447.8 | 505.0 | 538.1 | 542.9 | 487.3 | 456.7 | 442.6 | 438.9 |
| 40° | 1619.5 | 1148.3 | 417.6 | 438.1 | 504.6 | 547.4 | 519.2 | 462.7 | 403.9 | 376.5 | 374.4 |
| 42.5° | 1648.5 | 1079.0 | 385.3 | 432.1 | 509.5 | 561.5 | 509.5 | 428.1 | 364.0 | 347.8 | 345.4 |
| 45° | 1691.7 | 999.6 | 367.6 | 429.3 | 516.7 | 566.7 | 506.3 | 402.7 | 347.8 | 334.9 | 334.9 |
| 47.5° | 1740.4 | 923.8 | 357.9 | 427.3 | 526.0 | 563.1 | 477.6 | 394.6 | 340.2 | 341.8 | 349.5 |
| 50° | 1788.8 | 858.1 | 350.7 | 422.8 | 534.1 | 561.1 | 465.9 | 394.2 | 342.2 | 362.8 | 376.5 |
| 52.5° | 1844.8 | 811.8 | 341.8 | 415.6 | 534.1 | 548.2 | 462.3 | 402.3 | 347.8 | 353.9 | 359.9 |
| 55° | 1912.6 | 797.3 | 330.5 | 399.8 | 524.4 | 515.9 | 460.3 | 414.0 | 351.9 | 337.8 | 340.2 |
| 57.5° | 2002.0 | 820.6 | 319.6 | 380.1 | 502.2 | 482.5 | 459.5 | 417.2 | 342.6 | 330.9 | 328.5 |
| 60° | 2106.0 | 867.0 | 316.4 | 359.9 | 472.0 | 453.9 | 454.7 | 407.9 | 329.7 | 317.6 | 319.6 |
| 62.5° | 2179.0 | 894.8 | 314.4 | 344.6 | 438.9 | 422.4 | 443.0 | 396.6 | 324.1 | 313.6 | 315.6 |
| 65° | 2179.0 | 861.0 | 295.9 | 321.2 | 396.2 | 384.5 | 428.9 | 382.5 | 316.8 | 304.7 | 302.7 |
| 67.5° | 2096.4 | 762.2 | 267.6 | 286.2 | 349.1 | 341.4 | 409.1 | 365.6 | 305.9 | 296.7 | 291.8 |
| 70° | 1881.1 | 578.0 | 232.2 | 245.1 | 289.4 | 296.3 | 383.7 | 342.6 | 287.8 | 276.5 | 269.2 |
| 71° | 1786.4 | 503.4 | 217.3 | 224.1 | 266.4 | 276.5 | 371.6 | 332.9 | 279.7 | 263.6 | 250.7 |
| 72.5° | 1603.8 | 424.0 | 194.7 | 197.5 | 227.7 | 245.9 | 346.2 | 314.4 | 264.4 | 241.4 | 226.9 |
| 75° | 1218.5 | 309.6 | 156.8 | 155.2 | 168.5 | 195.1 | 293.0 | 280.1 | 231.8 | 200.7 | 192.3 |
| 77.5° | 526.4 | 168.5 | 117.3 | 118.5 | 114.5 | 147.9 | 230.6 | 240.6 | 198.7 | 163.2 | 155.6 |
| 80° | 159.6 | 97.1 | 80.2 | 81.8 | 76.6 | 99.2 | 162.4 | 188.6 | 159.6 | 127.0 | 116.5 |
| 82.5° | 81.8 | 58.0 | 54.8 | 54.0 | 48.8 | 56.0 | 98.3 | 129.0 | 114.1 | 79.4 | 70.1 |
| 85° | 35.5 | 31.0 | 27.0 | 26.2 | 23.0 | 20.2 | 35.1 | 64.5 | 60.5 | 44.3 | 42.3 |
| 87.5° | 8.9 | 8.1 | 5.2 | 4.8 | 2.8 | 0.4 | 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)