

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: P450562

Luminaire Tested: **GALN-SA1B-760-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450562
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-SA1B-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5892 lumens
Efficiency: N/A
Efficacy: 133.9 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

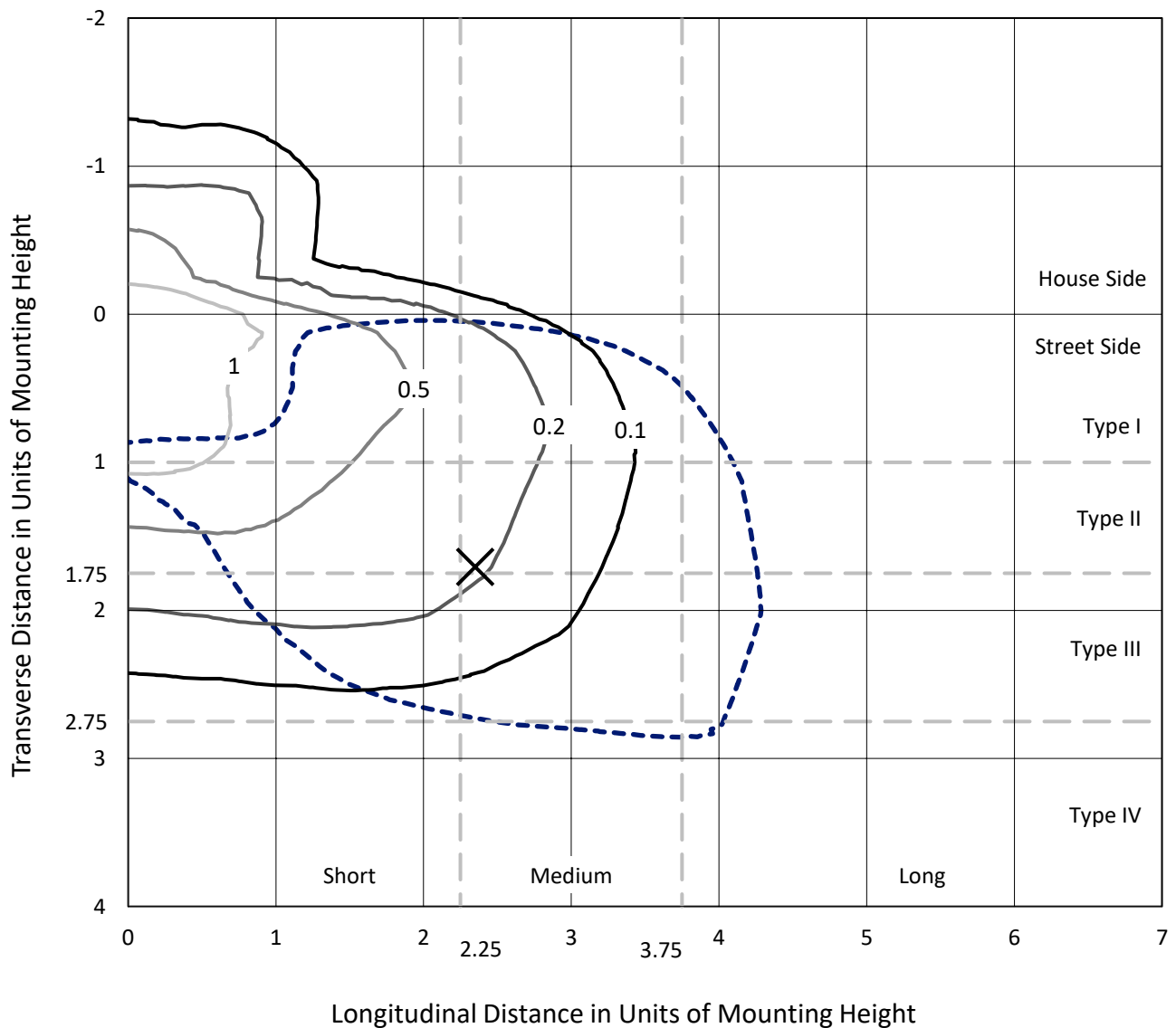
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

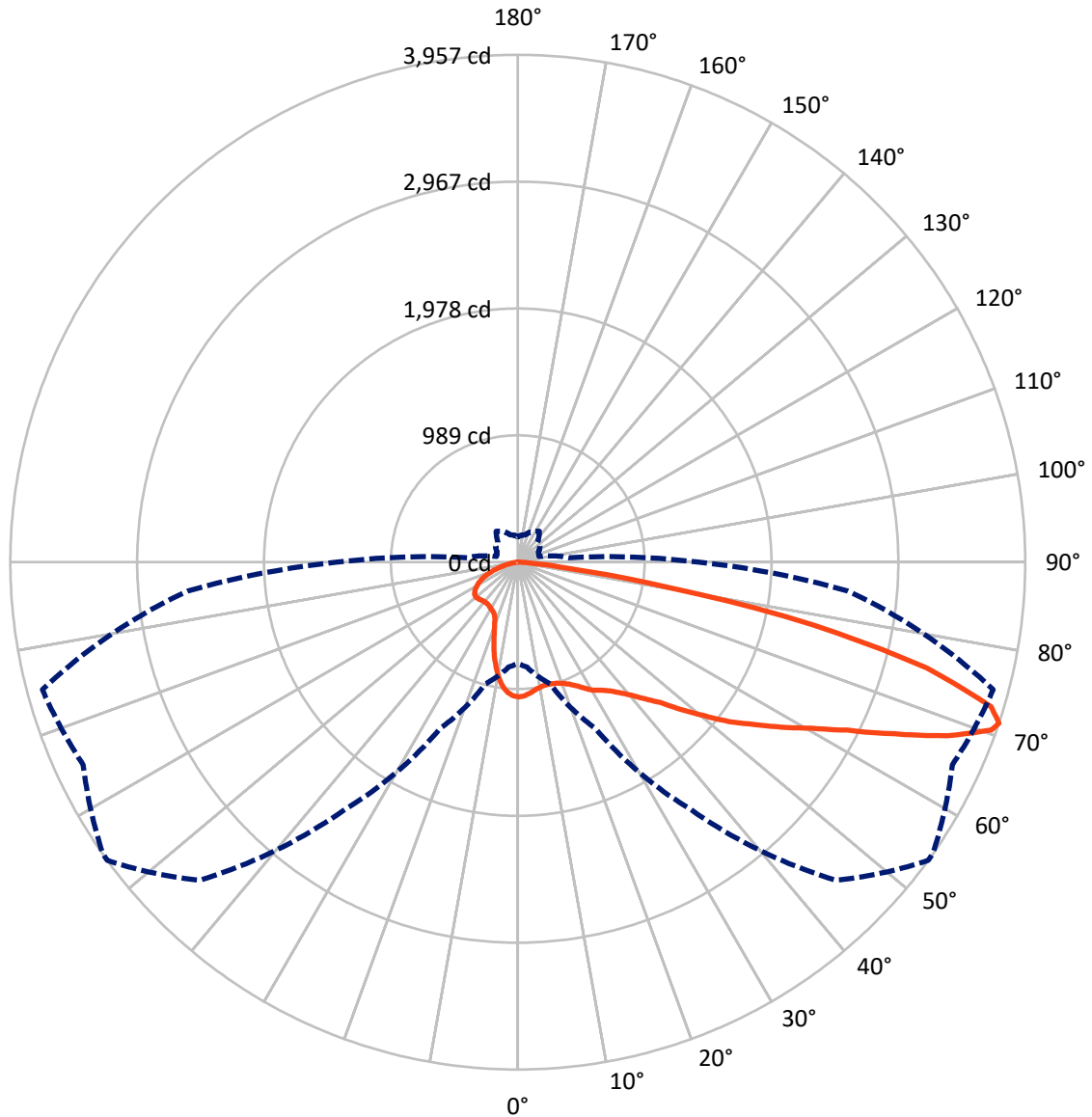
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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 | 1063.8 | 0.0 | 1063.8 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 4828.2 | 0.0 | 4828.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 5892.0 | 0.0 | 5892.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.7 | 1.6 |
| 10°-20° | 247.4 | 4.2 |
| 20°-30° | 411.9 | 7.0 |
| 30°-40° | 609.0 | 10.3 |
| 40°-50° | 857.8 | 14.6 |
| 50°-60° | 1148.7 | 19.5 |
| 60°-70° | 1447.8 | 24.6 |
| 70°-80° | 988.8 | 16.8 |
| 80°-90° | 87.0 | 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° | 5892.0 | 100.0 |
| 0°-180° | 5892.0 | 100.0 |

Coefficient of Utilization



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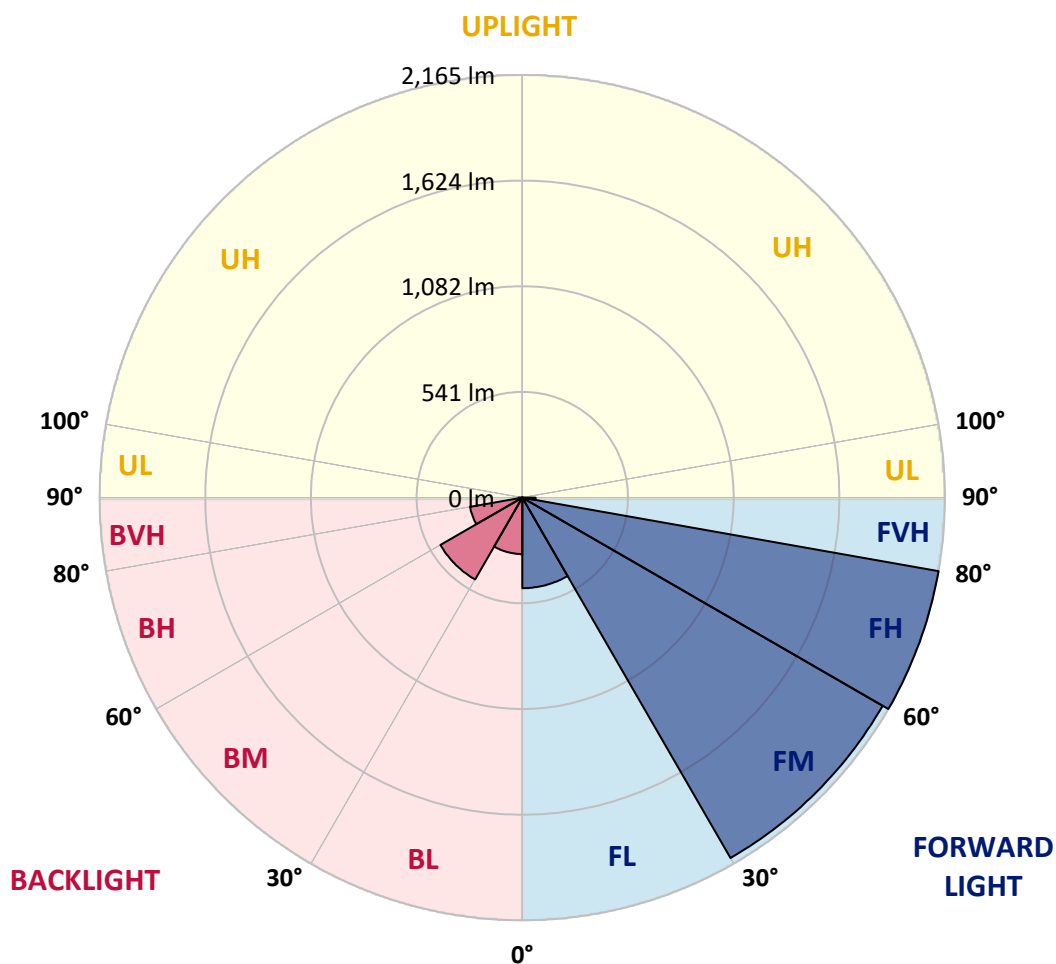
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 463.8 | 7.9 | | | |
| FM | (30°-60°) | 2131.5 | 36.2 | | | |
| FH | (60°-80°) | 2165.0 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 68.0 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 289.1 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 484.0 | 8.2 | B1/1000 | | |
| BH | (60°-80°) | 271.7 | 4.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 19.0 | 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° | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 |
| 2.5° | 1015.6 | 1020.3 | 1021.6 | 1024.8 | 1031.5 | 1036.9 | 1042.3 | 1041.7 | 1049.3 | 1052.5 | 1055.4 |
| 5° | 970.4 | 971.7 | 976.4 | 982.8 | 994.6 | 1009.5 | 1024.2 | 1024.5 | 1043.3 | 1058.2 | 1065.5 |
| 7.5° | 937.3 | 941.4 | 944.6 | 951.3 | 963.7 | 979.9 | 1003.2 | 1005.1 | 1038.5 | 1068.1 | 1083.7 |
| 10° | 915.6 | 920.4 | 923.9 | 932.2 | 944.6 | 962.7 | 987.9 | 991.4 | 1035.0 | 1083.7 | 1111.1 |
| 12.5° | 895.9 | 900.7 | 903.9 | 914.7 | 930.9 | 953.2 | 981.5 | 985.7 | 1036.3 | 1101.8 | 1141.0 |
| 15° | 908.0 | 911.8 | 910.5 | 913.7 | 924.6 | 950.0 | 984.1 | 988.2 | 1041.0 | 1119.3 | 1170.6 |
| 17.5° | 961.8 | 965.0 | 954.5 | 942.4 | 937.3 | 956.1 | 992.0 | 996.5 | 1050.6 | 1137.5 | 1200.8 |
| 20° | 1041.0 | 1049.6 | 1026.7 | 999.7 | 975.2 | 977.7 | 1008.6 | 1013.3 | 1064.0 | 1155.6 | 1231.7 |
| 22.5° | 1144.2 | 1150.5 | 1122.5 | 1078.0 | 1032.8 | 1009.5 | 1033.4 | 1036.3 | 1084.0 | 1179.2 | 1265.4 |
| 25° | 1265.4 | 1269.2 | 1230.4 | 1173.1 | 1107.9 | 1064.0 | 1067.5 | 1072.5 | 1117.1 | 1205.9 | 1295.3 |
| 27.5° | 1383.2 | 1395.3 | 1350.4 | 1280.4 | 1194.4 | 1121.2 | 1114.2 | 1117.4 | 1153.1 | 1220.9 | 1316.0 |
| 30° | 1522.9 | 1521.9 | 1474.5 | 1393.4 | 1283.2 | 1183.6 | 1158.5 | 1157.8 | 1172.5 | 1228.2 | 1331.0 |
| 32.5° | 1634.3 | 1647.3 | 1600.9 | 1512.4 | 1384.8 | 1248.2 | 1189.0 | 1187.8 | 1187.4 | 1240.9 | 1353.3 |
| 35° | 1760.9 | 1762.9 | 1720.2 | 1631.1 | 1494.6 | 1329.4 | 1231.7 | 1225.3 | 1218.0 | 1268.3 | 1383.5 |
| 37.5° | 1874.2 | 1883.2 | 1844.0 | 1744.1 | 1602.5 | 1413.7 | 1290.2 | 1286.1 | 1263.8 | 1315.7 | 1431.9 |
| 40° | 1962.7 | 1969.4 | 1945.9 | 1850.7 | 1708.7 | 1504.7 | 1364.7 | 1357.1 | 1330.0 | 1393.4 | 1496.5 |
| 42.5° | 1991.7 | 2005.4 | 2014.6 | 1967.8 | 1831.0 | 1612.6 | 1456.4 | 1446.8 | 1426.1 | 1511.1 | 1570.9 |
| 45° | 1993.9 | 2015.6 | 2064.2 | 2066.5 | 1953.8 | 1741.8 | 1563.3 | 1556.6 | 1555.0 | 1662.0 | 1675.7 |
| 47.5° | 1977.0 | 1999.0 | 2080.8 | 2125.0 | 2063.3 | 1872.3 | 1717.7 | 1707.2 | 1708.1 | 1848.5 | 1793.1 |
| 50° | 1936.3 | 1962.4 | 2061.7 | 2162.6 | 2148.9 | 2007.9 | 1880.6 | 1877.1 | 1896.8 | 2061.4 | 1915.0 |
| 52.5° | 1859.6 | 1891.1 | 2042.0 | 2186.1 | 2212.6 | 2124.7 | 2065.8 | 2056.0 | 2105.9 | 2292.4 | 2048.3 |
| 55° | 1647.3 | 1694.7 | 1969.7 | 2199.2 | 2273.0 | 2236.4 | 2232.6 | 2250.4 | 2316.6 | 2544.5 | 2195.1 |
| 57.5° | 1536.6 | 1572.2 | 1812.8 | 2201.4 | 2349.4 | 2366.3 | 2427.4 | 2431.8 | 2547.7 | 2812.2 | 2360.9 |
| 60° | 1476.1 | 1507.6 | 1726.9 | 2186.8 | 2456.0 | 2527.0 | 2626.6 | 2642.5 | 2773.3 | 3102.1 | 2532.7 |
| 62.5° | 1423.3 | 1450.3 | 1675.3 | 2136.2 | 2576.3 | 2765.4 | 2884.7 | 2892.4 | 3029.5 | 3422.3 | 2702.4 |
| 65° | 1298.8 | 1329.7 | 1571.6 | 2085.6 | 2680.1 | 3063.3 | 3227.2 | 3218.3 | 3302.3 | 3698.5 | 2808.7 |
| 67.5° | 1131.1 | 1170.3 | 1377.8 | 1910.8 | 2731.3 | 3388.9 | 3612.9 | 3601.8 | 3571.5 | 3879.6 | 2839.2 |
| 70° | 916.9 | 937.9 | 1129.8 | 1608.8 | 2526.7 | 3559.8 | 3917.5 | 3905.7 | 3738.3 | 3903.5 | 2694.7 |
| 71° | 789.0 | 821.8 | 983.7 | 1429.0 | 2356.4 | 3507.6 | 3956.6 | 3953.5 | 3738.6 | 3837.6 | 2585.9 |
| 72.5° | 615.8 | 635.9 | 779.1 | 1107.2 | 2002.8 | 3210.9 | 3859.9 | 3872.0 | 3657.5 | 3654.6 | 2361.5 |
| 75° | 389.6 | 398.5 | 488.9 | 651.8 | 1099.0 | 2274.0 | 3295.0 | 3327.7 | 3247.5 | 2991.3 | 1756.2 |
| 77.5° | 226.3 | 237.7 | 292.8 | 384.1 | 474.8 | 1234.2 | 2357.7 | 2393.3 | 2256.5 | 1647.0 | 719.0 |
| 80° | 131.8 | 144.5 | 192.9 | 223.1 | 218.0 | 458.0 | 1200.5 | 1261.3 | 977.1 | 416.0 | 201.8 |
| 82.5° | 73.2 | 81.8 | 135.6 | 135.9 | 116.2 | 149.6 | 377.8 | 395.3 | 278.8 | 167.7 | 82.4 |
| 85° | 53.1 | 60.2 | 87.5 | 79.2 | 55.7 | 64.3 | 131.4 | 137.8 | 112.7 | 70.7 | 26.7 |
| 87.5° | 18.8 | 26.7 | 48.1 | 38.2 | 15.3 | 13.4 | 37.9 | 30.9 | 28.6 | 19.7 | 6.0 |
| 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° | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 | 1051.2 |
| 2.5° | 1056.9 | 1057.6 | 1054.4 | 1048.7 | 1042.9 | 1035.6 | 1027.4 | 1021.0 | 1018.1 | 1017.8 | 1017.5 |
| 5° | 1068.4 | 1070.0 | 1057.9 | 1040.1 | 1020.3 | 996.2 | 975.5 | 951.9 | 945.9 | 936.3 | 939.2 |
| 7.5° | 1086.9 | 1085.9 | 1062.0 | 1024.2 | 978.0 | 926.8 | 883.5 | 858.4 | 832.3 | 824.9 | 825.3 |
| 10° | 1113.3 | 1107.2 | 1062.0 | 991.7 | 914.7 | 838.6 | 778.2 | 740.0 | 719.3 | 702.1 | 695.7 |
| 12.5° | 1141.3 | 1126.0 | 1051.9 | 946.2 | 833.2 | 740.0 | 675.0 | 623.5 | 610.1 | 596.1 | 596.4 |
| 15° | 1168.0 | 1142.6 | 1031.8 | 882.2 | 745.4 | 634.6 | 571.6 | 540.7 | 536.6 | 538.2 | 537.9 |
| 17.5° | 1192.2 | 1154.3 | 1001.3 | 810.9 | 642.9 | 544.2 | 510.8 | 513.0 | 524.2 | 532.1 | 533.1 |
| 20° | 1216.7 | 1161.3 | 955.7 | 715.5 | 546.1 | 489.5 | 490.8 | 508.3 | 525.1 | 536.0 | 537.5 |
| 22.5° | 1239.9 | 1164.5 | 902.3 | 623.2 | 476.1 | 466.3 | 485.0 | 503.8 | 520.4 | 530.9 | 532.5 |
| 25° | 1255.2 | 1157.2 | 826.5 | 526.7 | 441.7 | 458.0 | 477.7 | 493.6 | 507.6 | 518.4 | 521.0 |
| 27.5° | 1259.4 | 1133.6 | 732.6 | 448.7 | 425.8 | 450.0 | 468.2 | 479.9 | 490.8 | 500.9 | 502.9 |
| 30° | 1257.1 | 1099.0 | 629.5 | 402.9 | 416.6 | 440.8 | 454.8 | 463.4 | 476.4 | 484.4 | 486.0 |
| 32.5° | 1253.6 | 1058.5 | 522.0 | 378.4 | 409.0 | 432.2 | 440.5 | 448.1 | 447.8 | 444.6 | 446.8 |
| 35° | 1254.9 | 1010.2 | 434.7 | 363.8 | 402.3 | 425.8 | 432.8 | 423.3 | 395.9 | 394.6 | 393.4 |
| 37.5° | 1261.6 | 962.4 | 371.4 | 353.6 | 398.8 | 424.9 | 428.7 | 384.8 | 360.6 | 349.5 | 346.6 |
| 40° | 1278.8 | 906.7 | 329.7 | 346.0 | 398.5 | 432.2 | 409.9 | 365.4 | 318.9 | 297.3 | 295.7 |
| 42.5° | 1301.7 | 852.0 | 304.3 | 341.2 | 402.3 | 443.3 | 402.3 | 338.0 | 287.4 | 274.7 | 272.8 |
| 45° | 1335.7 | 789.3 | 290.3 | 338.9 | 408.0 | 447.5 | 399.7 | 317.9 | 274.7 | 264.5 | 264.5 |
| 47.5° | 1374.3 | 729.5 | 282.6 | 337.4 | 415.3 | 444.6 | 377.1 | 311.6 | 268.6 | 269.9 | 275.9 |
| 50° | 1412.4 | 677.6 | 276.9 | 333.9 | 421.7 | 443.0 | 367.9 | 311.3 | 270.2 | 286.4 | 297.3 |
| 52.5° | 1456.7 | 641.0 | 269.9 | 328.1 | 421.7 | 432.8 | 365.0 | 317.6 | 274.7 | 279.4 | 284.2 |
| 55° | 1510.2 | 629.5 | 261.0 | 315.7 | 414.1 | 407.4 | 363.5 | 326.9 | 277.8 | 266.7 | 268.6 |
| 57.5° | 1580.8 | 648.0 | 252.4 | 300.1 | 396.6 | 381.0 | 362.8 | 329.4 | 270.5 | 261.3 | 259.4 |
| 60° | 1662.9 | 684.6 | 249.8 | 284.2 | 372.7 | 358.4 | 359.0 | 322.1 | 260.3 | 250.8 | 252.4 |
| 62.5° | 1720.5 | 706.5 | 248.2 | 272.1 | 346.6 | 333.5 | 349.8 | 313.2 | 255.9 | 247.6 | 249.2 |
| 65° | 1720.5 | 679.8 | 233.6 | 253.7 | 312.9 | 303.6 | 338.6 | 302.0 | 250.2 | 240.6 | 239.0 |
| 67.5° | 1655.3 | 601.8 | 211.3 | 226.0 | 275.6 | 269.6 | 323.0 | 288.7 | 241.6 | 234.2 | 230.4 |
| 70° | 1485.3 | 456.4 | 183.3 | 193.5 | 228.5 | 233.9 | 303.0 | 270.5 | 227.2 | 218.3 | 212.6 |
| 71° | 1410.5 | 397.5 | 171.5 | 177.0 | 210.4 | 218.3 | 293.4 | 262.9 | 220.9 | 208.1 | 198.0 |
| 72.5° | 1266.4 | 334.8 | 153.7 | 155.9 | 179.8 | 194.1 | 273.4 | 248.2 | 208.8 | 190.6 | 179.2 |
| 75° | 962.1 | 244.4 | 123.8 | 122.5 | 133.0 | 154.0 | 231.4 | 221.2 | 183.0 | 158.5 | 151.8 |
| 77.5° | 415.7 | 133.0 | 92.6 | 93.6 | 90.4 | 116.8 | 182.0 | 190.0 | 156.9 | 128.9 | 122.8 |
| 80° | 126.0 | 76.7 | 63.3 | 64.6 | 60.5 | 78.3 | 128.3 | 148.9 | 126.0 | 100.3 | 92.0 |
| 82.5° | 64.6 | 45.8 | 43.3 | 42.6 | 38.5 | 44.2 | 77.7 | 101.8 | 90.1 | 62.7 | 55.4 |
| 85° | 28.0 | 24.5 | 21.3 | 20.7 | 18.1 | 15.9 | 27.7 | 50.9 | 47.7 | 35.0 | 33.4 |
| 87.5° | 7.0 | 6.4 | 4.1 | 3.8 | 2.2 | 0.3 | 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)