

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: STREETWORKS

Report Number: P649222

Luminaire Tested: **GLAN-SA1D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649222
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: STREETWORKS
Catalog Number: GLAN-SA1D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 5225 lumens
Efficiency: N/A
Efficacy: 80.4 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

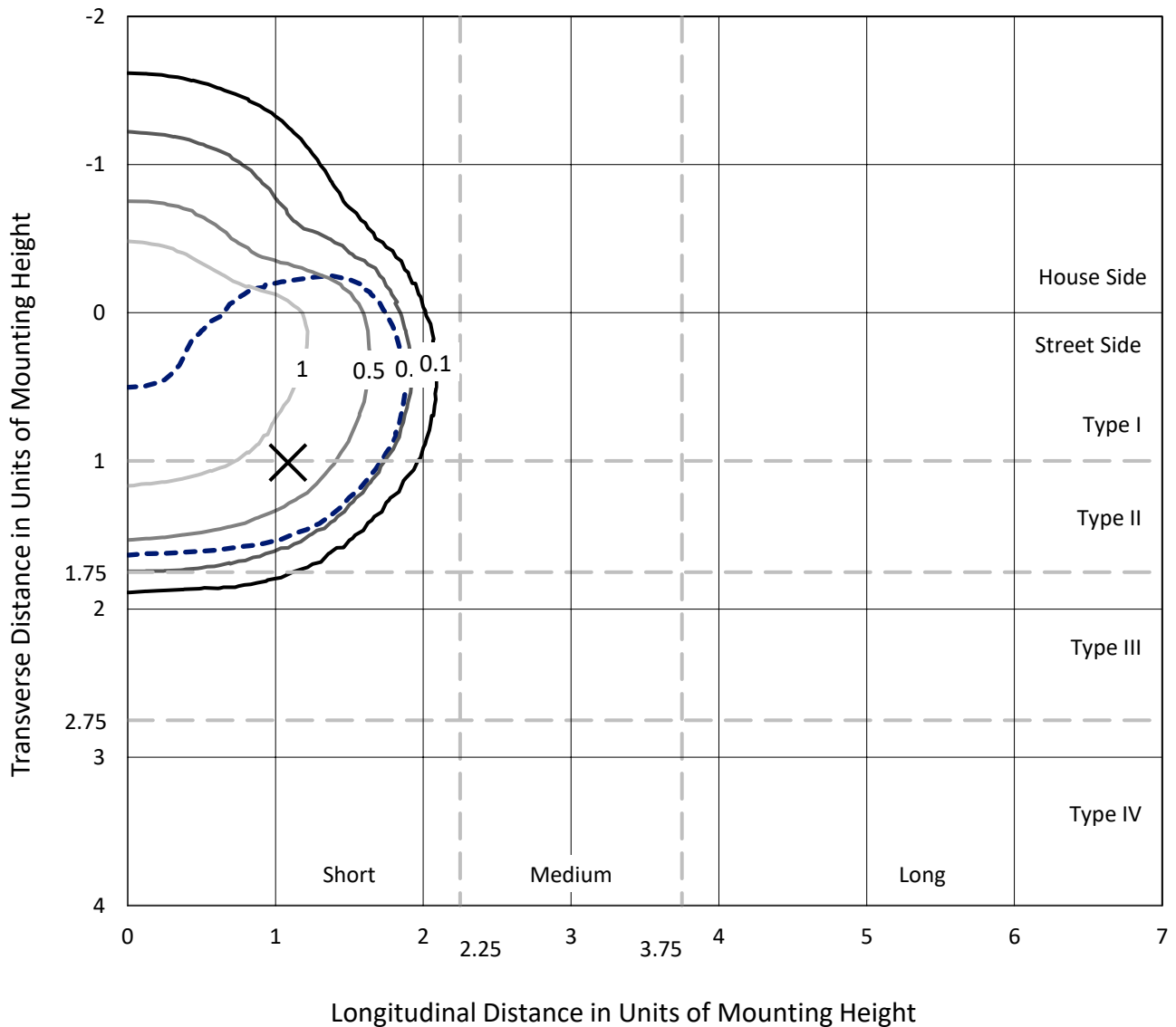
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

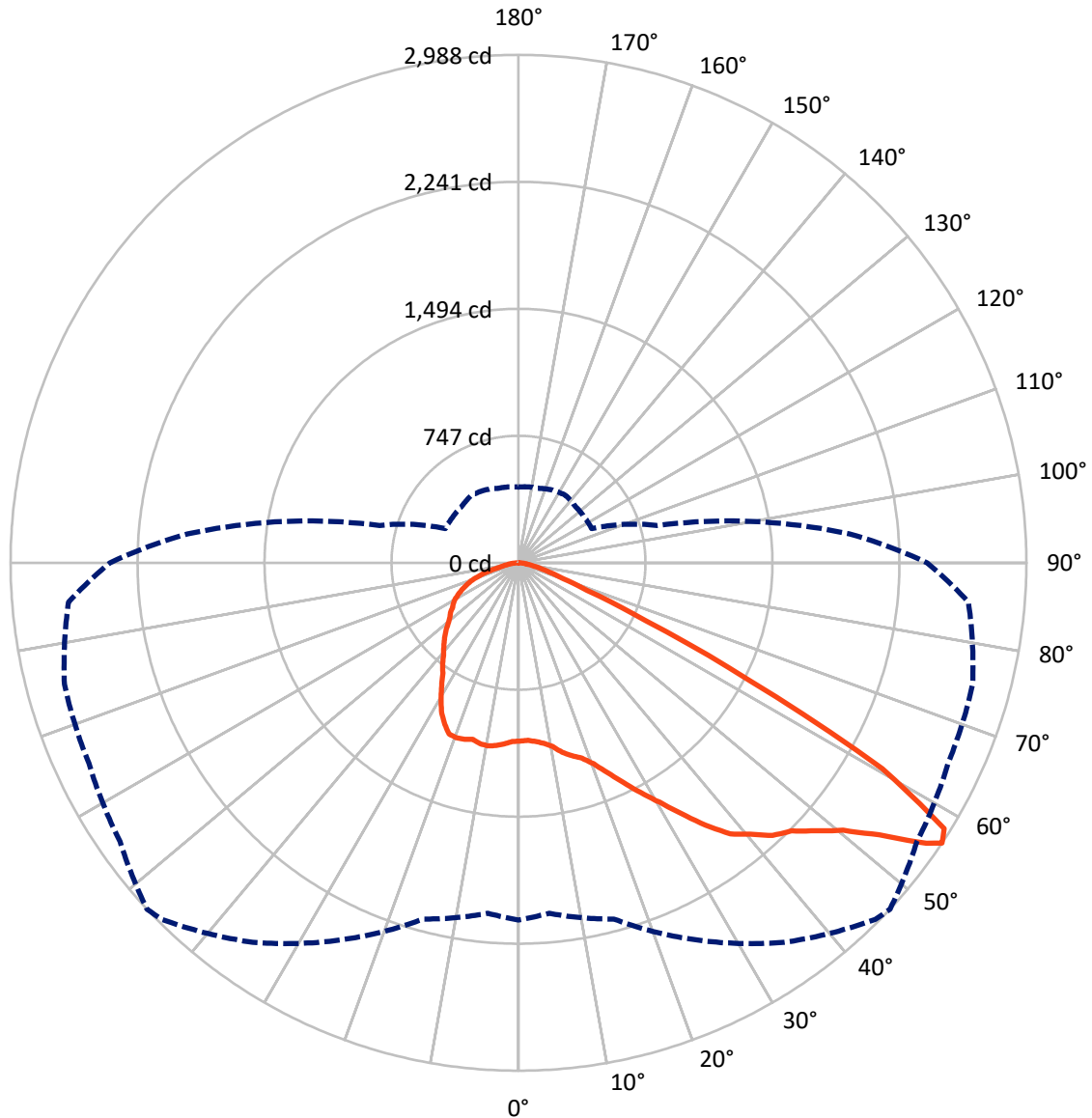
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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 | 1655.7 | 0.0 | 1655.7 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 3569.2 | 0.0 | 3569.2 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 5225.0 | 0.0 | 5225.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.3 | 2.0 |
| 10°-20° | 322.6 | 6.2 |
| 20°-30° | 570.3 | 10.9 |
| 30°-40° | 856.5 | 16.4 |
| 40°-50° | 1175.5 | 22.5 |
| 50°-60° | 1400.4 | 26.8 |
| 60°-70° | 599.3 | 11.5 |
| 70°-80° | 169.6 | 3.2 |
| 80°-90° | 28.5 | 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° | 5225.0 | 100.0 |
| 0°-180° | 5225.0 | 100.0 |

Coefficient of Utilization



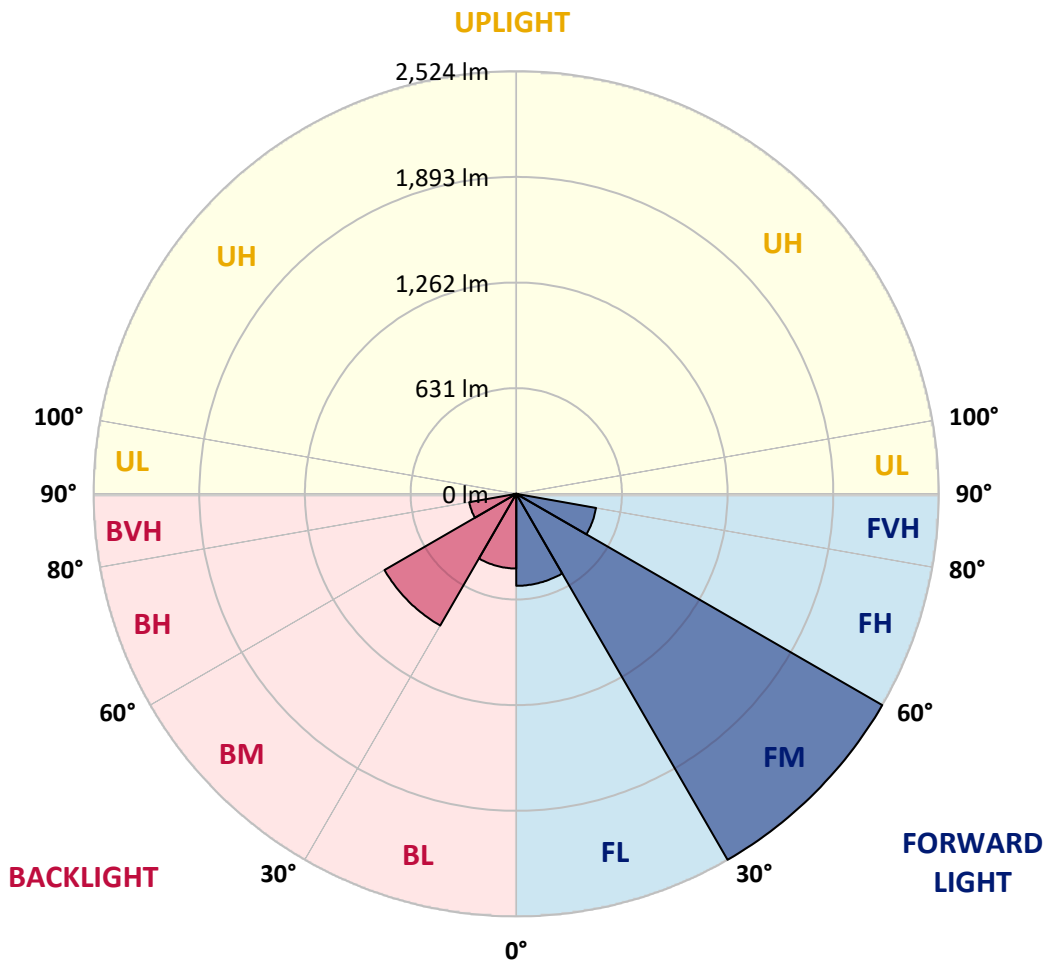
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 549.3 | 10.5 | | | |
| FM (30°-60°) | 2523.8 | 48.3 | | | |
| FH (60°-80°) | 484.0 | 9.3 | | | G0/660 |
| FVH (80°-90°) | 12.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 445.8 | 8.5 | B1/500 | | |
| BM (30°-60°) | 908.6 | 17.4 | B1/1000 | | |
| BH (60°-80°) | 284.9 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.4 | 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° | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 |
| 2.5° | 1045.5 | 1043.5 | 1042.2 | 1052.9 | 1048.9 | 1049.5 | 1045.5 | 1049.5 | 1052.2 | 1046.2 | 1054.9 |
| 5° | 1043.5 | 1049.5 | 1044.2 | 1047.5 | 1056.2 | 1053.5 | 1056.2 | 1064.2 | 1062.2 | 1060.2 | 1057.5 |
| 7.5° | 1062.2 | 1062.8 | 1066.8 | 1068.2 | 1070.8 | 1068.2 | 1072.2 | 1079.5 | 1077.5 | 1066.2 | 1067.5 |
| 10° | 1088.8 | 1090.2 | 1090.9 | 1098.2 | 1102.9 | 1103.5 | 1098.9 | 1092.2 | 1091.5 | 1106.8 | 1096.2 |
| 12.5° | 1119.5 | 1116.2 | 1124.2 | 1126.8 | 1132.1 | 1138.2 | 1144.2 | 1130.2 | 1138.8 | 1139.5 | 1126.8 |
| 15° | 1164.2 | 1167.5 | 1158.1 | 1158.1 | 1160.2 | 1160.8 | 1177.5 | 1170.8 | 1169.5 | 1162.1 | 1167.5 |
| 17.5° | 1230.8 | 1208.2 | 1207.5 | 1198.1 | 1196.8 | 1202.1 | 1208.2 | 1213.5 | 1231.4 | 1216.8 | 1188.1 |
| 20° | 1279.4 | 1284.7 | 1265.4 | 1254.1 | 1256.1 | 1268.1 | 1262.1 | 1286.1 | 1298.8 | 1274.8 | 1246.8 |
| 22.5° | 1365.4 | 1347.4 | 1352.1 | 1326.7 | 1328.8 | 1341.4 | 1340.7 | 1365.4 | 1372.8 | 1334.8 | 1294.1 |
| 25° | 1423.3 | 1418.7 | 1422.7 | 1402.7 | 1405.4 | 1415.4 | 1431.4 | 1472.0 | 1460.0 | 1418.0 | 1324.1 |
| 27.5° | 1508.0 | 1498.7 | 1495.4 | 1488.0 | 1485.4 | 1512.0 | 1530.7 | 1574.0 | 1565.3 | 1504.0 | 1377.4 |
| 30° | 1594.7 | 1588.6 | 1592.0 | 1562.0 | 1572.7 | 1629.3 | 1634.6 | 1693.9 | 1689.9 | 1582.0 | 1436.7 |
| 32.5° | 1654.6 | 1657.9 | 1664.0 | 1647.3 | 1694.6 | 1739.9 | 1757.9 | 1825.2 | 1828.5 | 1715.9 | 1551.3 |
| 35° | 1751.3 | 1739.9 | 1743.2 | 1762.5 | 1784.5 | 1867.1 | 1896.5 | 1941.1 | 1969.2 | 1856.5 | 1661.3 |
| 37.5° | 1811.9 | 1823.8 | 1809.9 | 1840.5 | 1897.8 | 1997.1 | 2023.7 | 2069.8 | 2099.1 | 1995.1 | 1811.2 |
| 40° | 1906.5 | 1887.2 | 1897.1 | 1919.1 | 1977.8 | 2107.1 | 2099.8 | 2147.1 | 2156.4 | 2113.1 | 1951.2 |
| 42.5° | 2008.5 | 1999.1 | 1985.1 | 2035.1 | 2084.4 | 2178.4 | 2193.0 | 2171.0 | 2218.3 | 2228.3 | 2151.1 |
| 45° | 2130.4 | 2141.7 | 2143.7 | 2145.0 | 2188.3 | 2270.3 | 2250.3 | 2231.0 | 2285.7 | 2358.3 | 2275.0 |
| 47.5° | 2243.7 | 2207.7 | 2233.7 | 2269.7 | 2331.0 | 2331.6 | 2355.0 | 2309.0 | 2366.9 | 2431.6 | 2387.0 |
| 50° | 2281.7 | 2264.4 | 2299.0 | 2366.9 | 2461.6 | 2471.5 | 2474.2 | 2408.9 | 2438.9 | 2490.3 | 2425.6 |
| 52.5° | 2267.0 | 2261.0 | 2349.6 | 2454.9 | 2593.5 | 2644.2 | 2657.5 | 2576.9 | 2593.5 | 2570.2 | 2510.9 |
| 55° | 2197.0 | 2215.0 | 2304.3 | 2518.9 | 2731.5 | 2888.0 | 2913.4 | 2811.4 | 2705.5 | 2723.4 | 2658.1 |
| 56° | 2101.1 | 2069.8 | 2169.7 | 2446.2 | 2725.5 | 2967.3 | 2988.0 | 2860.8 | 2788.7 | 2765.5 | 2656.8 |
| 57.5° | 1782.6 | 1741.9 | 1873.2 | 2201.0 | 2574.2 | 2937.3 | 2952.7 | 2881.4 | 2774.8 | 2727.4 | 2462.9 |
| 60° | 1043.5 | 1063.5 | 1230.1 | 1518.0 | 1985.8 | 2408.3 | 2459.6 | 2511.6 | 2440.2 | 2228.3 | 1833.2 |
| 62.5° | 503.8 | 491.1 | 610.4 | 870.3 | 1210.1 | 1537.3 | 1522.0 | 1667.9 | 1747.9 | 1583.3 | 1157.5 |
| 65° | 263.9 | 262.5 | 333.2 | 475.1 | 665.0 | 807.7 | 821.6 | 900.3 | 1010.2 | 815.7 | 587.7 |
| 67.5° | 193.9 | 199.3 | 234.6 | 333.9 | 427.8 | 436.4 | 434.5 | 473.8 | 484.4 | 409.8 | 361.2 |
| 70° | 151.9 | 154.6 | 180.6 | 253.8 | 318.5 | 285.2 | 279.2 | 283.8 | 315.2 | 328.5 | 312.5 |
| 72.5° | 109.9 | 112.6 | 134.6 | 171.2 | 199.3 | 194.6 | 198.6 | 224.6 | 263.2 | 277.2 | 260.6 |
| 75° | 73.3 | 75.3 | 87.3 | 104.6 | 117.9 | 127.3 | 134.6 | 164.6 | 200.6 | 208.6 | 200.6 |
| 77.5° | 50.7 | 52.6 | 60.6 | 74.0 | 75.3 | 81.3 | 83.9 | 98.0 | 120.0 | 130.0 | 124.6 |
| 80° | 28.7 | 28.7 | 32.7 | 38.0 | 46.7 | 54.7 | 56.0 | 67.3 | 77.3 | 83.9 | 85.3 |
| 82.5° | 13.3 | 14.0 | 17.3 | 23.3 | 30.6 | 38.0 | 39.3 | 46.7 | 53.9 | 60.6 | 62.6 |
| 85° | 6.7 | 7.4 | 10.0 | 14.0 | 18.6 | 22.6 | 22.0 | 22.6 | 24.0 | 22.6 | 23.3 |
| 87.5° | 2.0 | 2.0 | 2.7 | 3.4 | 2.7 | 3.4 | 3.4 | 4.0 | 4.7 | 5.3 | 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° | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 |
| 2.5° | 1055.6 | 1057.5 | 1044.2 | 1056.9 | 1052.2 | 1051.6 | 1060.9 | 1059.6 | 1062.8 | 1061.5 | 1053.5 |
| 5° | 1056.2 | 1051.6 | 1065.5 | 1052.9 | 1058.9 | 1071.5 | 1062.8 | 1082.9 | 1072.9 | 1079.5 | 1064.9 |
| 7.5° | 1076.9 | 1078.2 | 1075.5 | 1080.9 | 1078.2 | 1084.2 | 1079.5 | 1084.2 | 1076.2 | 1076.9 | 1090.2 |
| 10° | 1094.9 | 1090.9 | 1095.5 | 1088.8 | 1093.5 | 1091.5 | 1080.9 | 1077.5 | 1080.2 | 1076.9 | 1085.6 |
| 12.5° | 1128.1 | 1120.9 | 1117.5 | 1109.5 | 1104.2 | 1084.2 | 1067.5 | 1058.2 | 1070.8 | 1072.9 | 1068.9 |
| 15° | 1162.1 | 1162.8 | 1147.5 | 1129.5 | 1096.2 | 1066.2 | 1070.2 | 1073.5 | 1073.5 | 1078.8 | 1068.9 |
| 17.5° | 1183.5 | 1183.5 | 1169.5 | 1133.5 | 1099.5 | 1082.2 | 1078.2 | 1067.5 | 1058.2 | 1056.9 | 1056.2 |
| 20° | 1220.8 | 1209.5 | 1177.5 | 1132.8 | 1098.2 | 1090.2 | 1060.2 | 1034.9 | 1015.6 | 1008.9 | 1008.2 |
| 22.5° | 1263.4 | 1234.8 | 1190.2 | 1134.2 | 1096.2 | 1084.8 | 1028.9 | 990.9 | 956.3 | 941.6 | 943.6 |
| 25° | 1302.8 | 1256.8 | 1197.4 | 1128.1 | 1088.8 | 1034.2 | 971.5 | 918.9 | 882.9 | 870.9 | 865.0 |
| 27.5° | 1330.1 | 1280.1 | 1197.4 | 1133.5 | 1061.5 | 977.6 | 913.6 | 846.3 | 814.9 | 807.0 | 808.3 |
| 30° | 1366.7 | 1309.4 | 1218.1 | 1122.2 | 1006.9 | 904.3 | 827.6 | 783.6 | 765.0 | 758.3 | 763.0 |
| 32.5° | 1452.7 | 1386.1 | 1246.8 | 1094.9 | 942.3 | 831.0 | 769.0 | 744.3 | 717.0 | 703.7 | 699.1 |
| 35° | 1546.0 | 1458.7 | 1274.8 | 1048.9 | 869.6 | 764.4 | 725.7 | 703.1 | 670.4 | 655.7 | 658.3 |
| 37.5° | 1677.9 | 1552.0 | 1276.8 | 972.9 | 791.0 | 727.0 | 691.7 | 656.4 | 629.7 | 607.1 | 600.4 |
| 40° | 1855.9 | 1679.2 | 1272.1 | 892.9 | 727.6 | 683.0 | 657.0 | 613.1 | 583.1 | 567.0 | 570.4 |
| 42.5° | 2012.5 | 1828.5 | 1252.8 | 802.3 | 670.4 | 653.0 | 623.7 | 580.4 | 551.1 | 534.4 | 533.1 |
| 45° | 2144.4 | 1938.5 | 1216.2 | 725.0 | 622.4 | 619.7 | 585.8 | 552.4 | 529.1 | 513.8 | 520.5 |
| 47.5° | 2266.3 | 2027.1 | 1160.8 | 647.7 | 578.4 | 583.7 | 551.1 | 530.4 | 515.8 | 501.7 | 501.1 |
| 50° | 2310.3 | 2025.8 | 1112.2 | 583.7 | 543.1 | 540.4 | 539.1 | 517.1 | 501.7 | 489.8 | 495.1 |
| 52.5° | 2383.6 | 2048.4 | 1059.6 | 539.8 | 511.1 | 511.8 | 516.5 | 500.4 | 483.1 | 475.8 | 482.5 |
| 55° | 2488.9 | 2051.8 | 943.6 | 488.4 | 484.4 | 489.1 | 489.1 | 478.5 | 463.8 | 457.8 | 454.5 |
| 56° | 2402.9 | 1952.5 | 846.3 | 475.1 | 471.1 | 471.1 | 483.8 | 471.8 | 453.8 | 449.1 | 445.1 |
| 57.5° | 2216.4 | 1710.5 | 708.4 | 459.2 | 453.1 | 462.4 | 469.1 | 456.5 | 439.8 | 433.2 | 437.1 |
| 60° | 1528.7 | 1157.5 | 532.4 | 424.5 | 424.5 | 439.8 | 445.1 | 426.5 | 419.1 | 418.5 | 413.2 |
| 62.5° | 892.3 | 674.4 | 416.5 | 393.1 | 394.5 | 407.2 | 411.2 | 400.5 | 391.2 | 402.5 | 407.8 |
| 65° | 473.1 | 402.5 | 357.2 | 359.9 | 360.5 | 370.5 | 387.8 | 387.2 | 386.5 | 389.9 | 390.5 |
| 67.5° | 342.5 | 334.5 | 324.6 | 321.9 | 323.2 | 330.5 | 347.8 | 361.2 | 360.5 | 352.5 | 346.5 |
| 70° | 305.2 | 293.9 | 287.9 | 288.5 | 283.2 | 291.9 | 305.8 | 314.5 | 299.2 | 289.9 | 285.9 |
| 72.5° | 253.8 | 250.6 | 246.6 | 247.2 | 236.5 | 234.6 | 218.5 | 218.5 | 214.5 | 211.9 | 216.6 |
| 75° | 193.9 | 192.6 | 194.6 | 191.3 | 179.9 | 168.0 | 158.6 | 149.9 | 136.6 | 131.3 | 128.6 |
| 77.5° | 122.6 | 126.6 | 131.3 | 123.9 | 119.3 | 110.6 | 101.3 | 92.6 | 82.0 | 76.0 | 76.0 |
| 80° | 83.3 | 86.6 | 90.0 | 88.6 | 83.3 | 75.3 | 68.0 | 58.6 | 51.3 | 46.7 | 46.0 |
| 82.5° | 63.3 | 66.0 | 70.6 | 65.3 | 60.0 | 53.3 | 47.3 | 40.6 | 34.0 | 28.7 | 28.7 |
| 85° | 22.6 | 26.0 | 28.7 | 31.3 | 33.4 | 34.0 | 29.3 | 24.0 | 19.3 | 15.3 | 14.6 |
| 87.5° | 6.0 | 6.7 | 7.4 | 6.7 | 6.7 | 6.7 | 7.4 | 6.7 | 6.0 | 4.7 | 4.7 |
| 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)