

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: P653187

Luminaire Tested: **GLAN-SA1D-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653187
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: STREETWORKS
Catalog Number: GLAN-SA1D-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736.4 lumens
Efficiency: N/A
Efficacy: 103.6 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

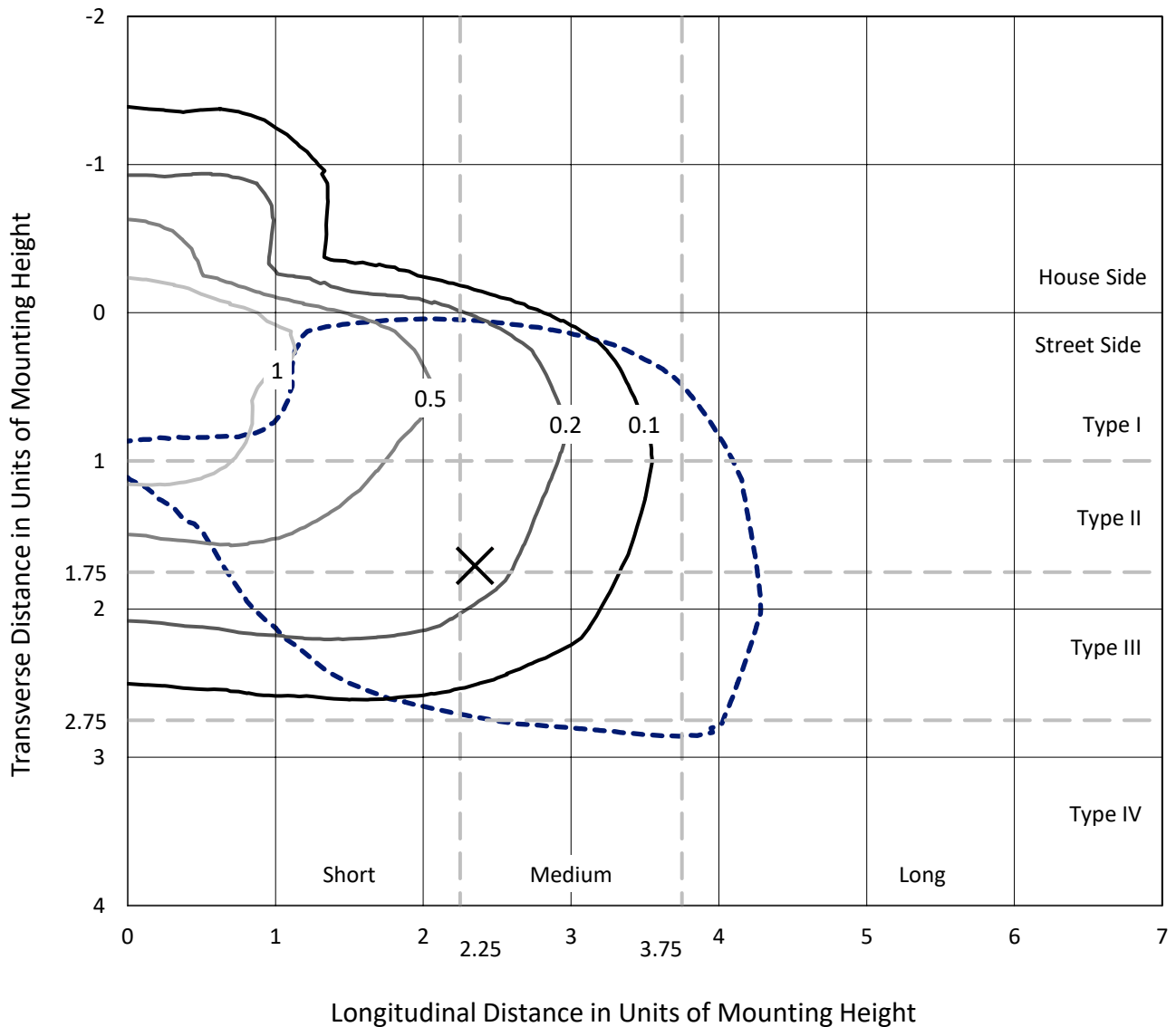
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

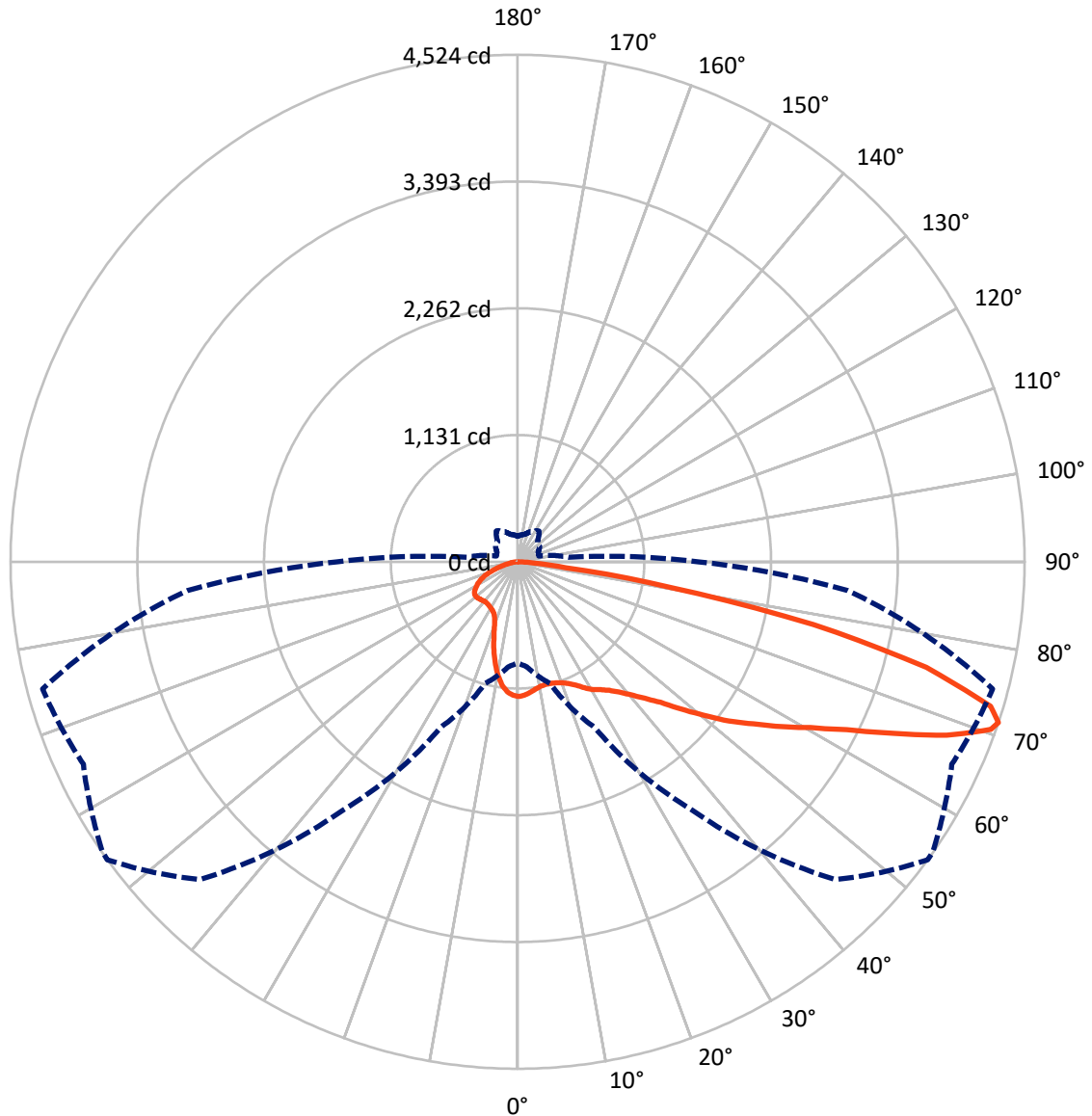
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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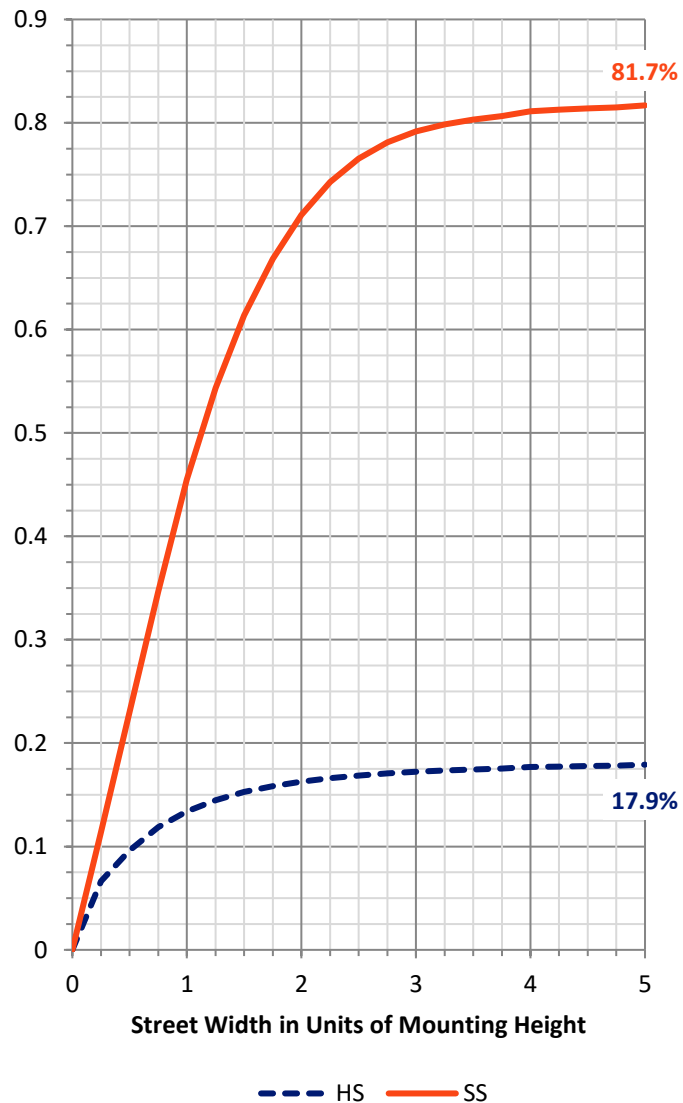
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1216.2 | 0.0 | 1216.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 5520.2 | 0.0 | 5520.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 6736.4 | 0.0 | 6736.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.1 | 1.6 |
| 10°-20° | 282.8 | 4.2 |
| 20°-30° | 470.9 | 7.0 |
| 30°-40° | 696.3 | 10.3 |
| 40°-50° | 980.8 | 14.6 |
| 50°-60° | 1313.3 | 19.5 |
| 60°-70° | 1655.3 | 24.6 |
| 70°-80° | 1130.6 | 16.8 |
| 80°-90° | 99.4 | 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° | 6736.4 | 100.0 |
| 0°-180° | 6736.4 | 100.0 |

Coefficient of Utilization

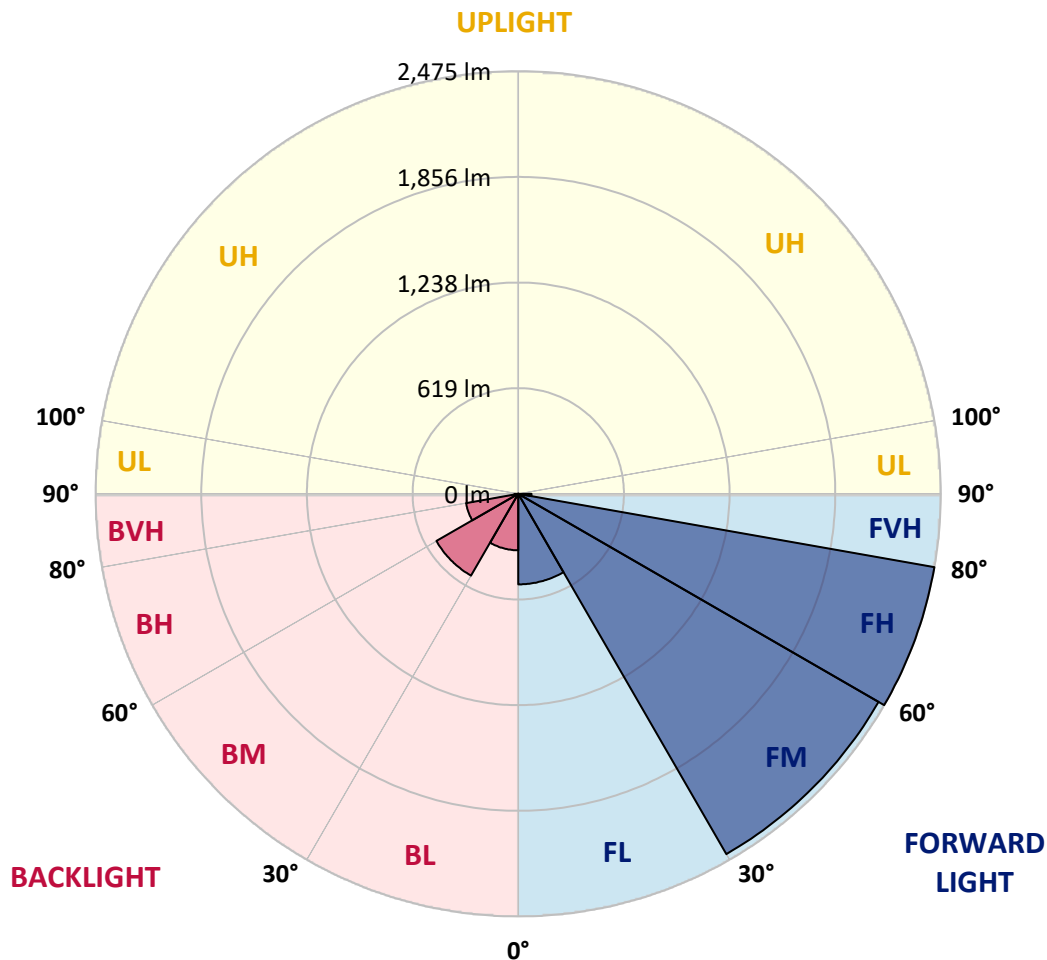


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 530.3 | 7.9 | | | |
| FM (30°-60°) | 2437.0 | 36.2 | | | |
| FH (60°-80°) | 2475.2 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 77.7 | 1.2 | | | G1/100 |
| BL (0°-30°) | 330.5 | 4.9 | B1/500 | | |
| BM (30°-60°) | 553.3 | 8.2 | B1/1000 | | |
| BH (60°-80°) | 310.6 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.7 | 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° | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 |
| 2.5° | 1161.1 | 1166.6 | 1168.1 | 1171.7 | 1179.3 | 1185.5 | 1191.7 | 1190.9 | 1199.7 | 1203.3 | 1206.6 |
| 5° | 1109.4 | 1110.9 | 1116.3 | 1123.7 | 1137.1 | 1154.2 | 1170.9 | 1171.3 | 1192.8 | 1209.9 | 1218.3 |
| 7.5° | 1071.6 | 1076.3 | 1080.0 | 1087.6 | 1101.8 | 1120.4 | 1147.0 | 1149.1 | 1187.3 | 1221.1 | 1239.0 |
| 10° | 1046.9 | 1052.3 | 1056.3 | 1065.8 | 1080.0 | 1100.7 | 1129.5 | 1133.5 | 1183.3 | 1239.0 | 1270.2 |
| 12.5° | 1024.3 | 1029.8 | 1033.4 | 1045.8 | 1064.4 | 1089.8 | 1122.1 | 1126.9 | 1184.8 | 1259.7 | 1304.5 |
| 15° | 1038.1 | 1042.5 | 1041.1 | 1044.7 | 1057.1 | 1086.2 | 1125.1 | 1129.8 | 1190.3 | 1279.7 | 1338.4 |
| 17.5° | 1099.6 | 1103.2 | 1091.3 | 1077.4 | 1071.6 | 1093.0 | 1134.2 | 1139.3 | 1201.1 | 1300.5 | 1372.9 |
| 20° | 1190.3 | 1200.0 | 1173.9 | 1142.9 | 1114.9 | 1117.9 | 1153.1 | 1158.6 | 1216.4 | 1321.2 | 1408.2 |
| 22.5° | 1308.1 | 1315.4 | 1283.4 | 1232.4 | 1180.8 | 1154.2 | 1181.5 | 1184.8 | 1239.4 | 1348.1 | 1446.8 |
| 25° | 1446.8 | 1451.1 | 1406.7 | 1341.2 | 1266.6 | 1216.4 | 1220.5 | 1226.3 | 1277.2 | 1378.7 | 1481.0 |
| 27.5° | 1581.4 | 1595.2 | 1543.9 | 1463.8 | 1365.6 | 1281.9 | 1273.9 | 1277.6 | 1318.4 | 1395.8 | 1504.6 |
| 30° | 1741.1 | 1740.0 | 1685.9 | 1593.0 | 1467.1 | 1353.3 | 1324.5 | 1323.7 | 1340.5 | 1404.2 | 1521.7 |
| 32.5° | 1868.5 | 1883.4 | 1830.3 | 1729.1 | 1583.2 | 1427.1 | 1359.4 | 1358.0 | 1357.6 | 1418.8 | 1547.2 |
| 35° | 2013.4 | 2015.5 | 1966.8 | 1864.8 | 1708.7 | 1519.9 | 1408.2 | 1400.9 | 1392.5 | 1450.1 | 1581.8 |
| 37.5° | 2142.9 | 2153.0 | 2108.3 | 1994.0 | 1832.1 | 1616.3 | 1475.1 | 1470.4 | 1444.9 | 1504.2 | 1637.1 |
| 40° | 2244.0 | 2251.6 | 2224.7 | 2116.0 | 1953.6 | 1720.4 | 1560.3 | 1551.6 | 1520.6 | 1593.0 | 1710.9 |
| 42.5° | 2277.1 | 2292.7 | 2303.3 | 2249.8 | 2093.3 | 1843.7 | 1665.1 | 1654.2 | 1630.5 | 1727.7 | 1796.0 |
| 45° | 2279.7 | 2304.4 | 2360.1 | 2362.6 | 2233.8 | 1991.5 | 1787.4 | 1779.7 | 1777.9 | 1900.2 | 1915.8 |
| 47.5° | 2260.4 | 2285.5 | 2379.0 | 2429.6 | 2359.0 | 2140.7 | 1963.8 | 1951.8 | 1952.9 | 2113.3 | 2050.1 |
| 50° | 2213.8 | 2243.6 | 2357.2 | 2472.5 | 2456.9 | 2295.7 | 2150.1 | 2146.1 | 2168.7 | 2356.8 | 2189.5 |
| 52.5° | 2126.1 | 2162.1 | 2334.6 | 2499.5 | 2529.6 | 2429.2 | 2361.9 | 2350.6 | 2407.8 | 2621.0 | 2341.9 |
| 55° | 1883.4 | 1937.7 | 2252.0 | 2514.3 | 2598.8 | 2557.0 | 2552.6 | 2573.0 | 2648.6 | 2909.2 | 2509.6 |
| 57.5° | 1756.8 | 1797.6 | 2072.6 | 2516.9 | 2686.2 | 2705.4 | 2775.3 | 2780.3 | 2912.8 | 3215.2 | 2699.2 |
| 60° | 1687.6 | 1723.6 | 1974.4 | 2500.2 | 2808.0 | 2889.2 | 3003.0 | 3021.2 | 3170.8 | 3546.7 | 2895.7 |
| 62.5° | 1627.3 | 1658.2 | 1915.5 | 2442.3 | 2945.5 | 3161.7 | 3298.1 | 3306.9 | 3463.7 | 3912.8 | 3089.7 |
| 65° | 1485.0 | 1520.3 | 1796.8 | 2384.5 | 3064.2 | 3502.3 | 3689.7 | 3679.5 | 3775.6 | 4228.5 | 3211.2 |
| 67.5° | 1293.2 | 1337.9 | 1575.2 | 2184.7 | 3122.8 | 3874.5 | 4130.7 | 4118.0 | 4083.4 | 4435.6 | 3246.1 |
| 70° | 1048.3 | 1072.4 | 1291.8 | 1839.4 | 2888.8 | 4069.9 | 4478.9 | 4465.5 | 4274.0 | 4462.9 | 3080.9 |
| 71° | 902.1 | 939.5 | 1124.8 | 1633.8 | 2694.1 | 4010.2 | 4523.7 | 4520.0 | 4274.5 | 4387.6 | 2956.5 |
| 72.5° | 704.1 | 727.0 | 890.8 | 1266.0 | 2289.9 | 3671.1 | 4413.1 | 4426.9 | 4181.6 | 4178.3 | 2699.9 |
| 75° | 445.4 | 455.6 | 558.9 | 745.2 | 1256.5 | 2599.9 | 3767.2 | 3804.7 | 3712.9 | 3420.0 | 2007.9 |
| 77.5° | 258.7 | 271.8 | 334.8 | 439.2 | 542.9 | 1411.1 | 2695.6 | 2736.4 | 2579.9 | 1883.1 | 822.0 |
| 80° | 150.6 | 165.2 | 220.5 | 255.1 | 249.3 | 523.6 | 1372.5 | 1442.1 | 1117.1 | 475.6 | 230.7 |
| 82.5° | 83.7 | 93.5 | 155.0 | 155.3 | 132.8 | 171.1 | 431.9 | 452.0 | 318.7 | 191.7 | 94.3 |
| 85° | 60.8 | 68.8 | 100.1 | 90.6 | 63.7 | 73.5 | 150.3 | 157.5 | 128.8 | 80.8 | 30.5 |
| 87.5° | 21.4 | 30.5 | 54.9 | 43.6 | 17.5 | 15.3 | 43.3 | 35.3 | 32.7 | 22.5 | 6.9 |
| 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° | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 |
| 2.5° | 1208.4 | 1209.2 | 1205.5 | 1198.9 | 1192.5 | 1184.0 | 1174.6 | 1167.3 | 1164.0 | 1163.7 | 1163.3 |
| 5° | 1221.6 | 1223.3 | 1209.5 | 1189.2 | 1166.6 | 1139.0 | 1115.3 | 1088.3 | 1081.4 | 1070.5 | 1073.8 |
| 7.5° | 1242.7 | 1241.6 | 1214.2 | 1170.9 | 1118.2 | 1059.6 | 1010.1 | 981.4 | 951.5 | 943.2 | 943.5 |
| 10° | 1272.9 | 1266.0 | 1214.2 | 1133.8 | 1045.8 | 958.8 | 889.7 | 846.0 | 822.3 | 802.7 | 795.4 |
| 12.5° | 1304.8 | 1287.4 | 1202.6 | 1081.8 | 952.6 | 846.0 | 771.8 | 712.8 | 697.5 | 681.5 | 681.9 |
| 15° | 1335.4 | 1306.3 | 1179.7 | 1008.7 | 852.2 | 725.5 | 653.5 | 618.2 | 613.5 | 615.3 | 614.9 |
| 17.5° | 1363.1 | 1319.8 | 1144.8 | 927.1 | 735.0 | 622.3 | 584.0 | 586.6 | 599.3 | 608.4 | 609.5 |
| 20° | 1391.1 | 1327.8 | 1092.7 | 818.0 | 624.4 | 559.6 | 561.1 | 581.1 | 600.4 | 612.8 | 614.6 |
| 22.5° | 1417.7 | 1331.4 | 1031.6 | 712.5 | 544.4 | 533.1 | 554.6 | 576.0 | 594.9 | 606.9 | 608.8 |
| 25° | 1435.1 | 1323.1 | 944.9 | 602.2 | 505.0 | 523.6 | 546.1 | 564.4 | 580.4 | 592.7 | 595.7 |
| 27.5° | 1439.9 | 1296.1 | 837.6 | 513.1 | 486.9 | 514.5 | 535.3 | 548.8 | 561.1 | 572.7 | 574.9 |
| 30° | 1437.3 | 1256.5 | 719.7 | 460.7 | 476.3 | 503.9 | 520.0 | 529.8 | 544.7 | 553.8 | 555.6 |
| 32.5° | 1433.3 | 1210.3 | 596.8 | 432.6 | 467.6 | 494.2 | 503.6 | 512.3 | 512.0 | 508.3 | 510.9 |
| 35° | 1434.7 | 1154.9 | 497.0 | 415.9 | 459.9 | 486.9 | 494.8 | 483.9 | 452.6 | 451.2 | 449.8 |
| 37.5° | 1442.4 | 1100.4 | 424.6 | 404.3 | 455.9 | 485.8 | 490.1 | 439.9 | 412.3 | 399.6 | 396.3 |
| 40° | 1462.1 | 1036.7 | 376.9 | 395.5 | 455.6 | 494.2 | 468.7 | 417.7 | 364.6 | 339.8 | 338.0 |
| 42.5° | 1488.2 | 974.1 | 347.8 | 390.1 | 459.9 | 506.9 | 459.9 | 386.4 | 328.6 | 314.0 | 311.8 |
| 45° | 1527.2 | 902.4 | 331.9 | 387.5 | 466.5 | 511.6 | 457.0 | 363.5 | 314.0 | 302.3 | 302.3 |
| 47.5° | 1571.2 | 834.0 | 323.1 | 385.7 | 474.8 | 508.3 | 431.2 | 356.2 | 307.1 | 308.6 | 315.5 |
| 50° | 1614.9 | 774.7 | 316.6 | 381.7 | 482.1 | 506.5 | 420.7 | 355.8 | 308.9 | 327.5 | 339.8 |
| 52.5° | 1665.4 | 732.8 | 308.6 | 375.2 | 482.1 | 494.8 | 417.4 | 363.1 | 314.0 | 319.5 | 325.0 |
| 55° | 1726.6 | 719.7 | 298.4 | 361.0 | 473.4 | 465.7 | 415.5 | 373.7 | 317.6 | 304.9 | 307.1 |
| 57.5° | 1807.4 | 740.8 | 288.5 | 343.1 | 453.4 | 435.6 | 414.8 | 376.6 | 309.3 | 298.7 | 296.5 |
| 60° | 1901.2 | 782.7 | 285.6 | 325.0 | 426.1 | 409.7 | 410.4 | 368.3 | 297.6 | 286.7 | 288.5 |
| 62.5° | 1967.1 | 807.8 | 283.8 | 311.1 | 396.3 | 381.3 | 399.9 | 358.0 | 292.6 | 283.1 | 284.9 |
| 65° | 1967.1 | 777.3 | 267.1 | 290.0 | 357.7 | 347.2 | 387.2 | 345.3 | 286.0 | 275.1 | 273.2 |
| 67.5° | 1892.5 | 688.1 | 241.6 | 258.4 | 315.1 | 308.2 | 369.4 | 330.0 | 276.2 | 267.8 | 263.5 |
| 70° | 1698.2 | 521.8 | 209.6 | 221.3 | 261.3 | 267.4 | 346.4 | 309.3 | 259.8 | 249.6 | 243.0 |
| 71° | 1612.7 | 454.5 | 196.1 | 202.3 | 240.5 | 249.6 | 335.5 | 300.6 | 252.6 | 238.0 | 226.3 |
| 72.5° | 1447.9 | 382.8 | 175.8 | 178.3 | 205.6 | 221.9 | 312.6 | 283.8 | 238.7 | 218.0 | 204.9 |
| 75° | 1100.0 | 279.5 | 141.5 | 140.1 | 152.1 | 176.1 | 264.5 | 252.9 | 209.2 | 181.2 | 173.6 |
| 77.5° | 475.2 | 152.1 | 105.9 | 107.0 | 103.4 | 133.6 | 208.1 | 217.2 | 179.4 | 147.3 | 140.4 |
| 80° | 144.1 | 87.7 | 72.4 | 73.8 | 69.1 | 89.5 | 146.7 | 170.3 | 144.1 | 114.6 | 105.1 |
| 82.5° | 73.8 | 52.4 | 49.5 | 48.8 | 44.1 | 50.5 | 88.8 | 116.5 | 102.9 | 71.7 | 63.3 |
| 85° | 32.0 | 28.0 | 24.4 | 23.6 | 20.8 | 18.2 | 31.6 | 58.2 | 54.6 | 40.0 | 38.2 |
| 87.5° | 8.0 | 7.3 | 4.7 | 4.4 | 2.5 | 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)