

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: P648699

Luminaire Tested: **GLAN-SA1C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3251 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

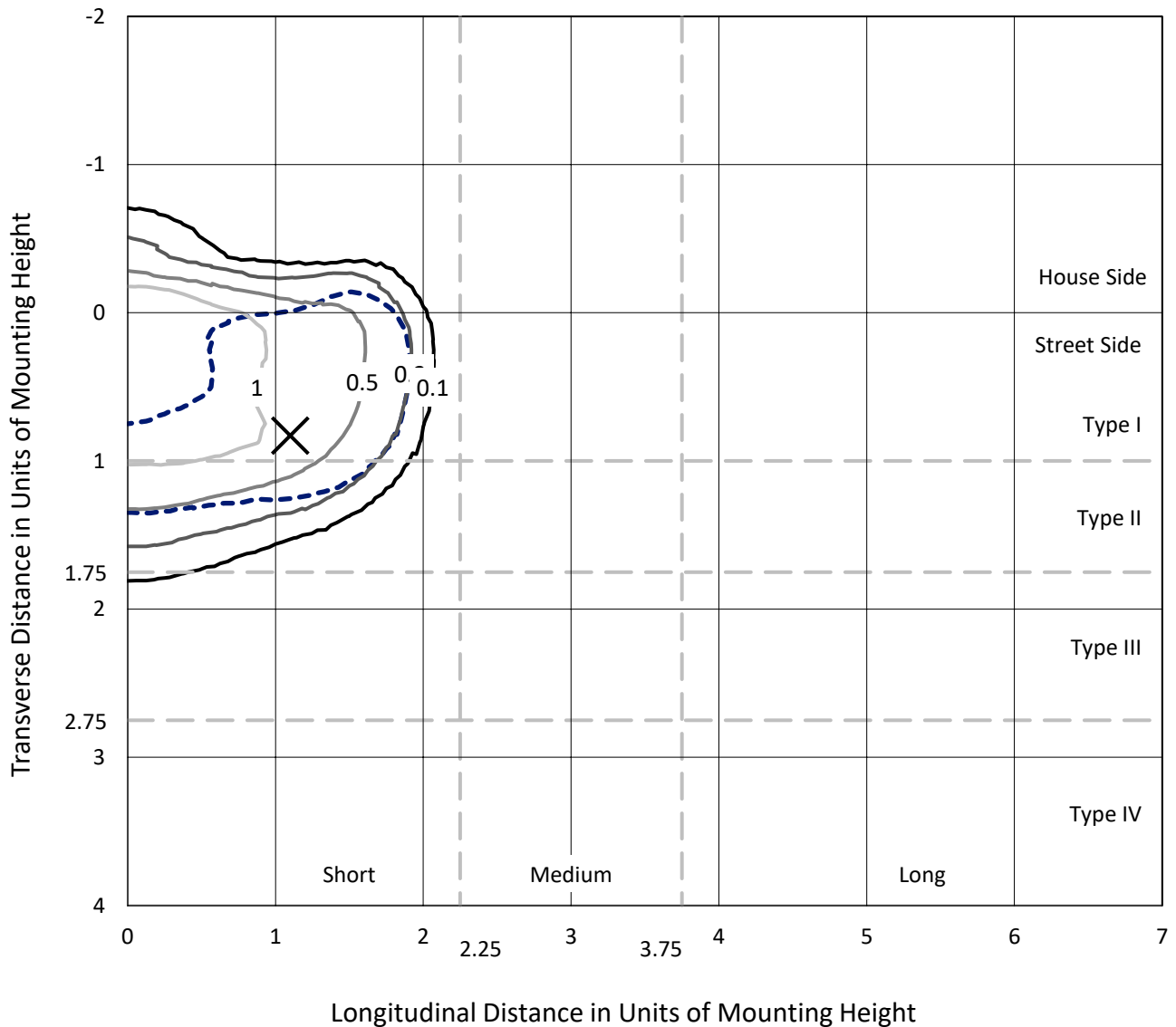
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

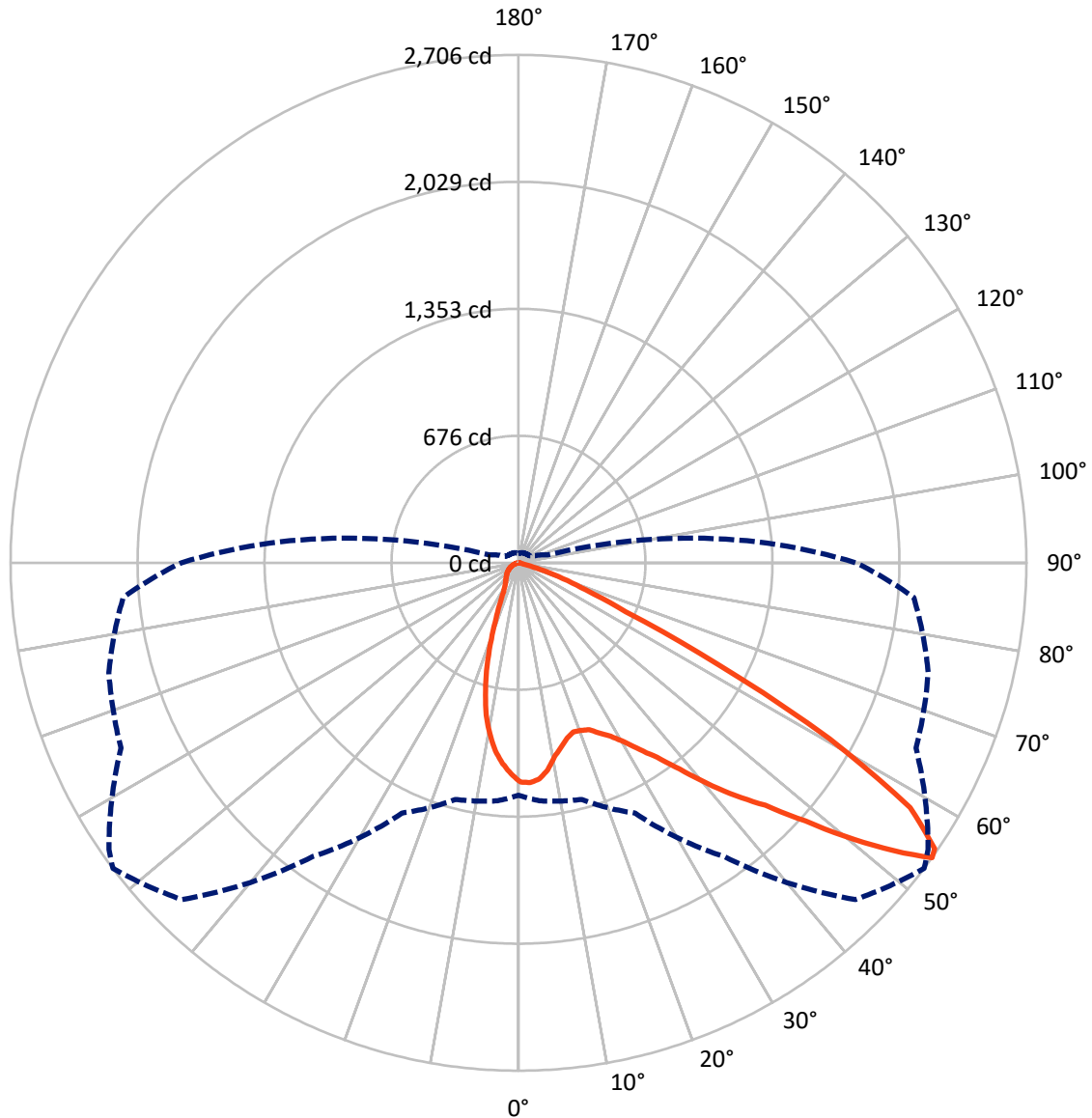
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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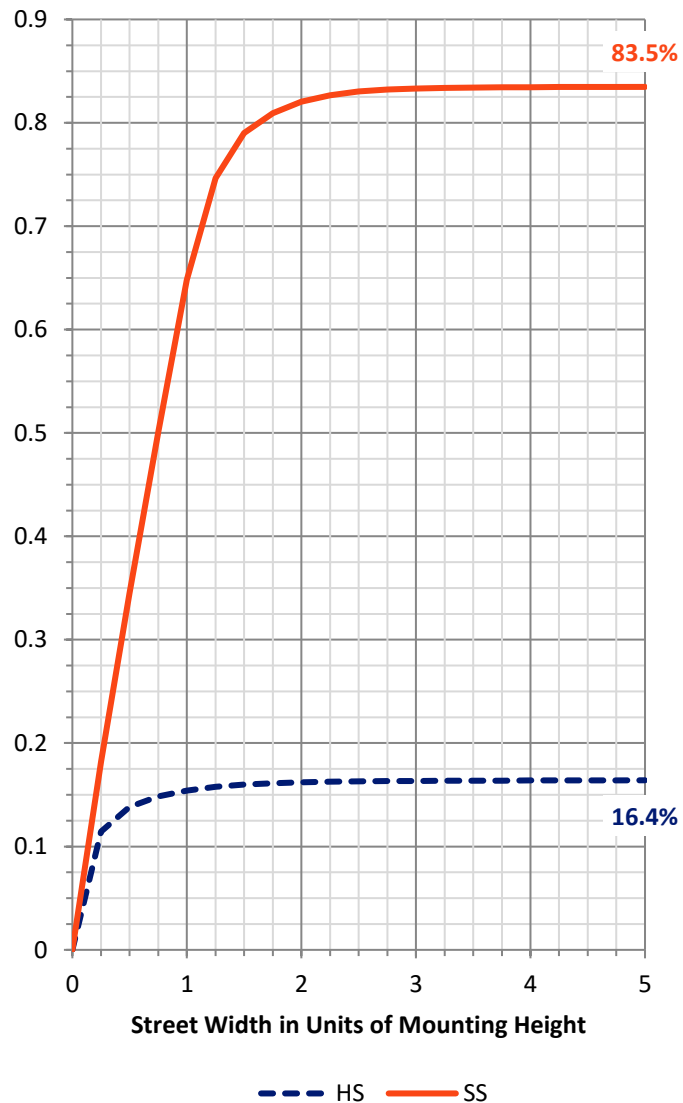
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 537.9 | 0.0 | 537.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 2713.1 | 0.0 | 2713.1 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 3251.0 | 0.0 | 3251.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.2 | 3.1 |
| 10°-20° | 229.7 | 7.1 |
| 20°-30° | 326.4 | 10.0 |
| 30°-40° | 503.8 | 15.5 |
| 40°-50° | 789.9 | 24.3 |
| 50°-60° | 917.6 | 28.2 |
| 60°-70° | 346.7 | 10.7 |
| 70°-80° | 33.0 | 1.0 |
| 80°-90° | 3.7 | 0.1 |
| 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° | 3251.0 | 100.0 |
| 0°-180° | 3251.0 | 100.0 |

Coefficient of Utilization

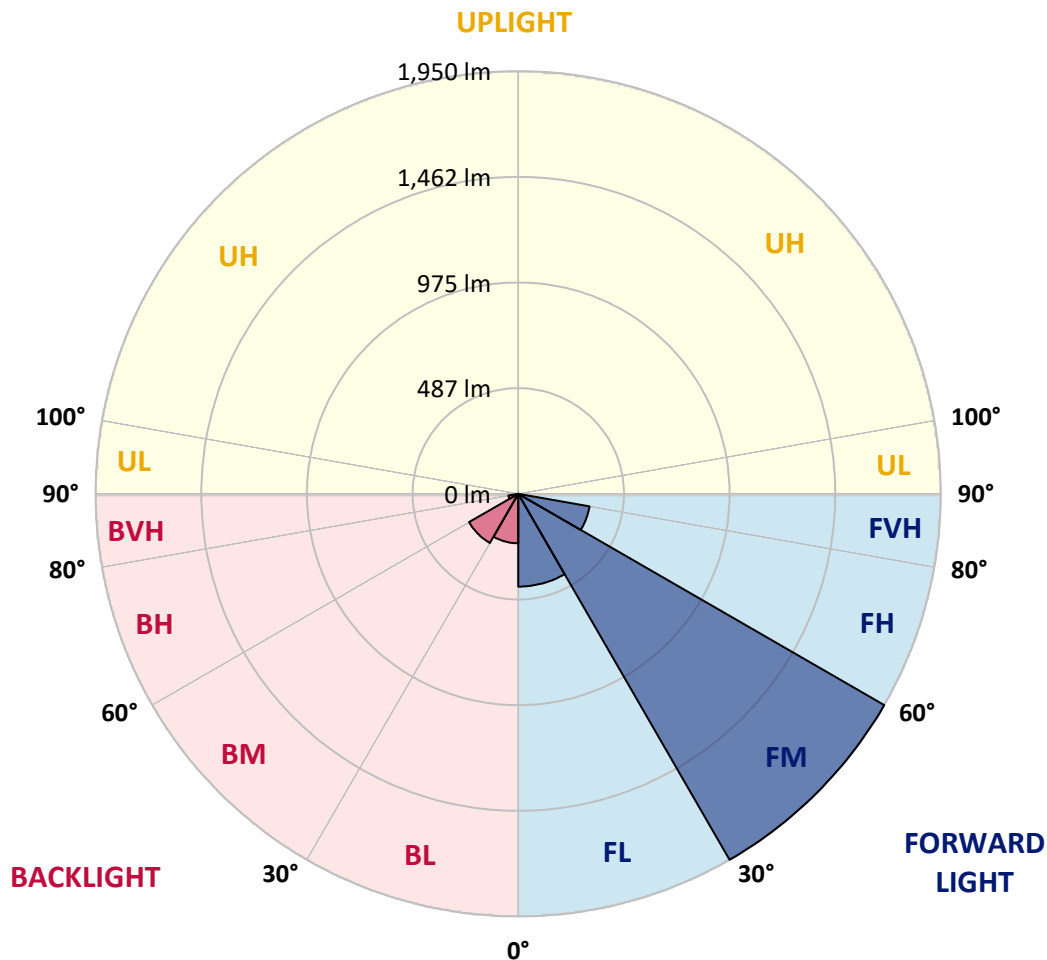


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 428.1 | 13.2 | | | |
| FM (30°-60°) | 1949.5 | 60.0 | | | |
| FH (60°-80°) | 333.6 | 10.3 | | | G0/660 |
| FVH (80°-90°) | 1.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 228.3 | 7.0 | B1/500 | | |
| BM (30°-60°) | 261.8 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 46.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 |
| 2.5° | 1161.7 | 1151.3 | 1161.7 | 1162.8 | 1170.1 | 1176.8 | 1172.5 | 1182.3 | 1176.8 | 1170.7 | 1168.9 |
| 5° | 1067.8 | 1081.7 | 1082.3 | 1104.1 | 1099.3 | 1139.3 | 1156.8 | 1151.9 | 1181.6 | 1179.8 | 1175.6 |
| 7.5° | 983.6 | 978.1 | 985.4 | 1010.9 | 1043.0 | 1089.0 | 1114.4 | 1113.8 | 1156.2 | 1186.5 | 1183.4 |
| 10° | 905.5 | 904.8 | 920.0 | 940.0 | 967.2 | 1015.7 | 1050.8 | 1068.4 | 1134.4 | 1180.5 | 1187.1 |
| 12.5° | 852.8 | 850.3 | 866.7 | 883.1 | 926.1 | 963.6 | 1008.4 | 1016.9 | 1092.6 | 1159.2 | 1170.1 |
| 15° | 818.2 | 823.7 | 824.9 | 856.4 | 883.7 | 933.3 | 968.4 | 986.0 | 1073.3 | 1142.2 | 1184.1 |
| 17.5° | 812.2 | 819.5 | 820.0 | 846.1 | 875.2 | 917.0 | 947.8 | 971.5 | 1056.9 | 1150.8 | 1184.7 |
| 20° | 824.3 | 820.0 | 823.7 | 840.1 | 868.5 | 908.5 | 953.3 | 961.2 | 1051.4 | 1155.0 | 1191.3 |
| 22.5° | 858.8 | 857.6 | 848.5 | 861.8 | 881.8 | 923.6 | 966.0 | 978.1 | 1067.2 | 1176.8 | 1196.8 |
| 25° | 897.0 | 903.7 | 895.1 | 893.3 | 907.3 | 948.4 | 1004.8 | 1020.6 | 1119.8 | 1216.2 | 1213.7 |
| 27.5° | 968.4 | 961.8 | 961.8 | 953.3 | 949.7 | 969.7 | 1046.6 | 1072.6 | 1178.6 | 1267.1 | 1233.1 |
| 30° | 1036.9 | 1044.1 | 1038.7 | 1041.7 | 1017.5 | 1015.7 | 1105.9 | 1138.0 | 1282.8 | 1344.6 | 1274.3 |
| 32.5° | 1145.3 | 1135.6 | 1144.7 | 1136.8 | 1104.7 | 1072.0 | 1186.5 | 1219.8 | 1408.8 | 1433.6 | 1336.1 |
| 35° | 1235.6 | 1231.3 | 1270.1 | 1268.9 | 1216.8 | 1184.7 | 1271.9 | 1321.5 | 1496.5 | 1540.2 | 1408.8 |
| 37.5° | 1363.9 | 1356.1 | 1400.3 | 1421.5 | 1374.9 | 1327.0 | 1394.2 | 1451.8 | 1578.4 | 1625.6 | 1483.2 |
| 40° | 1496.0 | 1516.0 | 1575.3 | 1610.5 | 1560.8 | 1497.2 | 1543.8 | 1561.4 | 1632.9 | 1681.3 | 1534.1 |
| 42.5° | 1663.2 | 1692.2 | 1752.7 | 1783.0 | 1778.8 | 1709.8 | 1695.8 | 1695.3 | 1672.3 | 1665.6 | 1571.7 |
| 45° | 1823.6 | 1812.7 | 1906.0 | 1972.1 | 2025.3 | 2005.3 | 1842.4 | 1824.2 | 1734.6 | 1689.2 | 1581.3 |
| 47.5° | 1893.9 | 1890.2 | 1953.8 | 2071.3 | 2253.1 | 2277.9 | 2055.6 | 1985.4 | 1840.0 | 1788.5 | 1634.0 |
| 50° | 1803.0 | 1821.8 | 1884.8 | 2015.1 | 2293.6 | 2483.2 | 2317.3 | 2222.8 | 1962.9 | 1909.7 | 1758.9 |
| 52.5° | 1506.3 | 1519.0 | 1578.9 | 1744.3 | 2155.5 | 2604.3 | 2568.0 | 2513.5 | 2188.9 | 2100.4 | 1976.3 |
| 54° | 1238.5 | 1272.5 | 1305.2 | 1471.2 | 1909.7 | 2537.1 | 2705.5 | 2663.7 | 2336.0 | 2259.1 | 2113.2 |
| 55° | 1078.7 | 1098.6 | 1122.3 | 1287.6 | 1739.4 | 2423.2 | 2689.8 | 2693.4 | 2434.7 | 2308.8 | 2205.2 |
| 57.5° | 787.9 | 801.9 | 777.7 | 851.0 | 1194.4 | 1967.8 | 2460.2 | 2558.3 | 2568.0 | 2383.3 | 2261.5 |
| 60° | 602.0 | 608.1 | 580.8 | 592.3 | 742.5 | 1350.6 | 1903.0 | 2021.1 | 2316.7 | 2082.9 | 1915.7 |
| 62.5° | 467.0 | 468.2 | 467.6 | 487.6 | 511.8 | 794.6 | 1190.1 | 1294.9 | 1597.1 | 1479.0 | 1301.0 |
| 65° | 344.1 | 338.6 | 348.3 | 408.8 | 436.7 | 499.6 | 626.9 | 703.1 | 867.9 | 732.8 | 523.9 |
| 67.5° | 222.9 | 224.7 | 234.4 | 304.0 | 374.3 | 383.4 | 385.8 | 379.8 | 380.4 | 209.5 | 131.5 |
| 70° | 133.8 | 136.9 | 133.8 | 172.0 | 267.7 | 275.0 | 251.3 | 245.3 | 191.4 | 49.6 | 49.1 |
| 72.5° | 79.3 | 75.1 | 67.3 | 73.9 | 111.4 | 133.3 | 120.0 | 119.3 | 75.1 | 29.0 | 29.0 |
| 75° | 33.3 | 30.3 | 24.8 | 22.4 | 29.7 | 28.5 | 28.5 | 25.4 | 20.0 | 19.4 | 18.2 |
| 77.5° | 6.7 | 6.7 | 4.9 | 5.5 | 7.3 | 8.5 | 10.3 | 10.3 | 12.1 | 12.1 | 11.5 |
| 80° | 0.0 | 0.6 | 1.8 | 3.6 | 5.5 | 7.9 | 9.1 | 9.1 | 10.3 | 10.3 | 8.5 |
| 82.5° | 0.0 | 0.6 | 1.8 | 3.6 | 4.9 | 7.3 | 9.1 | 9.1 | 10.3 | 10.9 | 9.1 |
| 85° | 0.0 | 0.6 | 1.8 | 3.1 | 4.9 | 6.0 | 6.0 | 5.5 | 4.2 | 3.6 | 2.4 |
| 87.5° | 0.0 | 0.0 | 0.6 | 1.2 | 0.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 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° | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1167.7 |
| 2.5° | 1173.2 | 1172.5 | 1158.1 | 1134.4 | 1128.9 | 1109.0 | 1106.5 | 1094.4 | 1101.1 | 1078.7 | 1076.2 |
| 5° | 1163.5 | 1156.2 | 1138.6 | 1123.5 | 1079.3 | 1047.8 | 1023.0 | 992.7 | 975.1 | 978.1 | 966.6 |
| 7.5° | 1177.4 | 1158.6 | 1127.8 | 1075.1 | 1021.1 | 966.0 | 936.3 | 874.5 | 852.1 | 818.9 | 814.0 |
| 10° | 1162.8 | 1148.9 | 1101.1 | 1013.9 | 939.4 | 860.0 | 790.4 | 721.9 | 669.9 | 647.5 | 642.6 |
| 12.5° | 1161.7 | 1137.5 | 1057.4 | 960.6 | 852.8 | 738.9 | 637.8 | 552.3 | 500.9 | 471.8 | 465.2 |
| 15° | 1142.9 | 1113.8 | 1008.4 | 878.2 | 729.2 | 587.5 | 477.2 | 394.9 | 355.6 | 338.6 | 343.4 |
| 17.5° | 1144.7 | 1101.1 | 959.3 | 791.0 | 607.5 | 431.2 | 325.8 | 283.4 | 273.2 | 277.4 | 277.4 |
| 20° | 1142.9 | 1072.6 | 900.0 | 690.4 | 465.2 | 299.2 | 239.2 | 224.1 | 230.8 | 244.1 | 241.1 |
| 22.5° | 1133.2 | 1059.3 | 845.5 | 584.4 | 342.2 | 221.7 | 192.0 | 192.6 | 202.9 | 219.2 | 222.9 |
| 25° | 1140.4 | 1029.6 | 776.4 | 477.2 | 249.5 | 176.9 | 166.5 | 170.8 | 181.7 | 193.8 | 196.2 |
| 27.5° | 1135.0 | 1008.4 | 704.4 | 370.7 | 182.3 | 152.1 | 151.4 | 156.3 | 161.1 | 170.2 | 170.2 |
| 30° | 1141.1 | 989.0 | 633.5 | 275.5 | 150.2 | 139.3 | 136.9 | 140.5 | 145.3 | 147.2 | 146.6 |
| 32.5° | 1163.5 | 974.5 | 551.8 | 205.9 | 132.6 | 127.2 | 127.2 | 127.2 | 126.6 | 129.0 | 129.6 |
| 35° | 1212.6 | 976.9 | 479.7 | 159.3 | 121.1 | 116.9 | 115.1 | 112.7 | 111.4 | 112.7 | 113.2 |
| 37.5° | 1265.8 | 975.7 | 405.2 | 135.7 | 112.7 | 109.0 | 104.8 | 101.2 | 100.5 | 101.7 | 99.9 |
| 40° | 1289.4 | 987.2 | 336.1 | 121.8 | 104.8 | 100.5 | 93.9 | 90.8 | 91.5 | 92.6 | 91.5 |
| 42.5° | 1321.5 | 990.9 | 291.4 | 110.9 | 97.5 | 90.8 | 86.6 | 83.0 | 82.4 | 84.2 | 83.5 |
| 45° | 1320.9 | 970.3 | 244.1 | 104.8 | 90.8 | 83.5 | 78.1 | 75.1 | 75.1 | 76.3 | 76.9 |
| 47.5° | 1359.7 | 967.2 | 209.5 | 99.4 | 86.0 | 78.8 | 72.0 | 69.7 | 69.1 | 69.1 | 67.8 |
| 50° | 1450.0 | 1009.6 | 182.9 | 93.3 | 79.9 | 73.3 | 67.8 | 64.8 | 62.4 | 61.2 | 60.6 |
| 52.5° | 1626.2 | 1141.7 | 162.3 | 86.0 | 73.3 | 67.8 | 63.0 | 60.6 | 57.6 | 54.5 | 53.9 |
| 54° | 1797.0 | 1277.9 | 161.1 | 79.9 | 67.8 | 64.2 | 60.0 | 58.7 | 55.1 | 50.9 | 49.6 |
| 55° | 1873.9 | 1357.3 | 165.4 | 75.1 | 64.2 | 61.8 | 58.2 | 56.9 | 53.3 | 48.5 | 47.8 |
| 57.5° | 1937.5 | 1388.2 | 162.9 | 62.4 | 58.2 | 57.6 | 54.5 | 52.7 | 48.5 | 41.8 | 40.6 |
| 60° | 1559.6 | 1049.6 | 116.9 | 55.1 | 53.3 | 52.1 | 49.6 | 48.5 | 43.0 | 35.7 | 35.2 |
| 62.5° | 985.4 | 603.8 | 74.5 | 48.5 | 46.7 | 44.8 | 41.8 | 40.6 | 35.7 | 28.5 | 26.6 |
| 65° | 419.7 | 250.2 | 50.3 | 43.0 | 40.0 | 37.0 | 34.5 | 32.7 | 28.5 | 21.2 | 20.6 |
| 67.5° | 109.0 | 89.0 | 41.8 | 37.6 | 33.3 | 29.0 | 27.2 | 24.2 | 19.4 | 14.6 | 13.9 |
| 70° | 49.1 | 44.8 | 35.2 | 31.5 | 26.6 | 22.4 | 20.0 | 17.0 | 12.7 | 9.7 | 9.1 |
| 72.5° | 29.0 | 28.5 | 26.6 | 23.6 | 20.0 | 17.0 | 14.6 | 11.5 | 8.5 | 5.5 | 5.5 |
| 75° | 18.2 | 17.5 | 18.2 | 16.4 | 13.9 | 12.7 | 10.9 | 7.9 | 4.9 | 2.4 | 2.4 |
| 77.5° | 10.9 | 10.9 | 10.9 | 10.3 | 9.7 | 9.7 | 7.9 | 4.9 | 2.4 | 0.6 | 0.6 |
| 80° | 8.5 | 8.5 | 9.1 | 8.5 | 8.5 | 8.5 | 6.7 | 3.6 | 1.2 | 0.0 | 0.0 |
| 82.5° | 8.5 | 9.1 | 10.3 | 9.7 | 8.5 | 7.3 | 6.0 | 3.6 | 1.2 | 0.0 | 0.0 |
| 85° | 2.4 | 1.8 | 3.1 | 4.2 | 6.0 | 5.5 | 4.2 | 3.1 | 1.2 | 0.0 | 0.0 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 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)