

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: P450544

Luminaire Tested: **GLAN-SA1B-760-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4712 lumens
Efficiency: N/A
Efficacy: 107.1 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

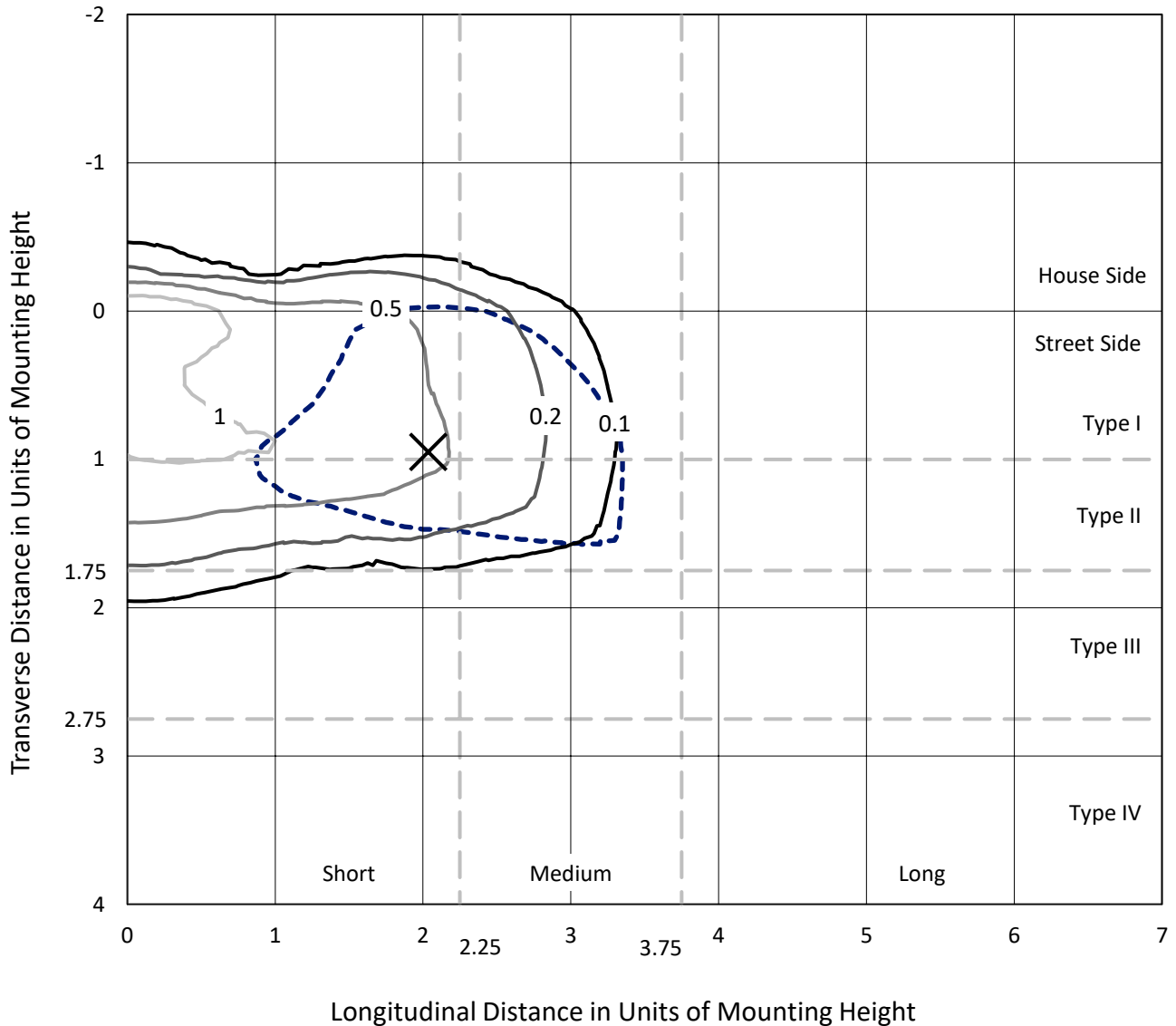
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

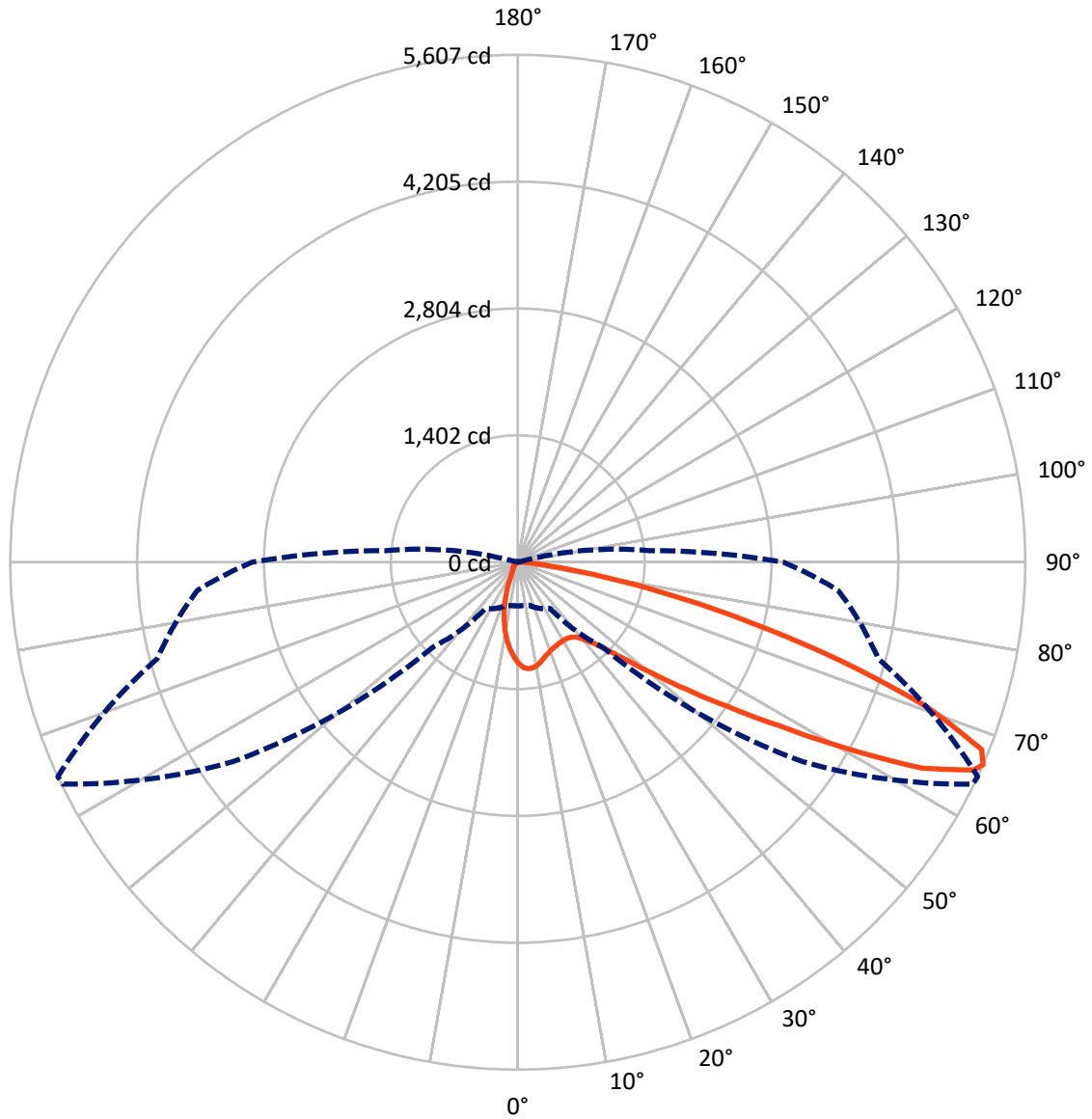
× Max cd
 - - - 1/2 Max cd



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 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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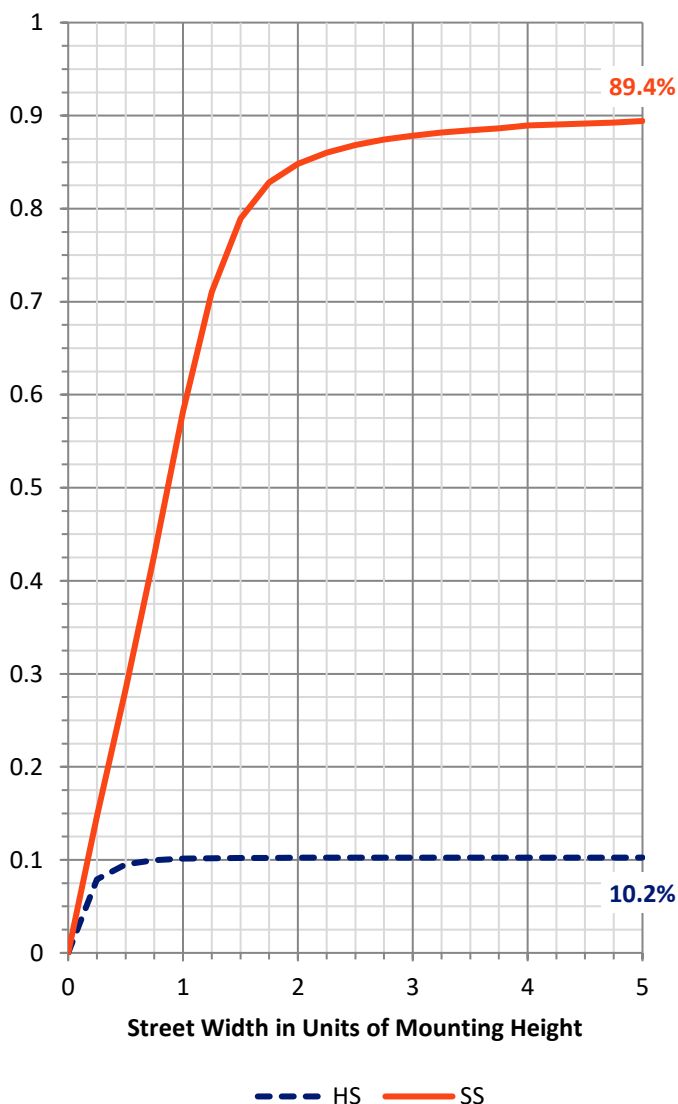
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 487.3 | 0.0 | 487.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 4224.7 | 0.0 | 4224.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 4712.0 | 0.0 | 4712.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.4 | 1.9 |
| 10°-20° | 199.1 | 4.2 |
| 20°-30° | 285.2 | 6.1 |
| 30°-40° | 416.6 | 8.8 |
| 40°-50° | 698.6 | 14.8 |
| 50°-60° | 1165.8 | 24.7 |
| 60°-70° | 1237.5 | 26.3 |
| 70°-80° | 560.5 | 11.9 |
| 80°-90° | 57.3 | 1.2 |
| 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° | 4712.0 | 100.0 |
| 0°-180° | 4712.0 | 100.0 |

Coefficient of Utilization

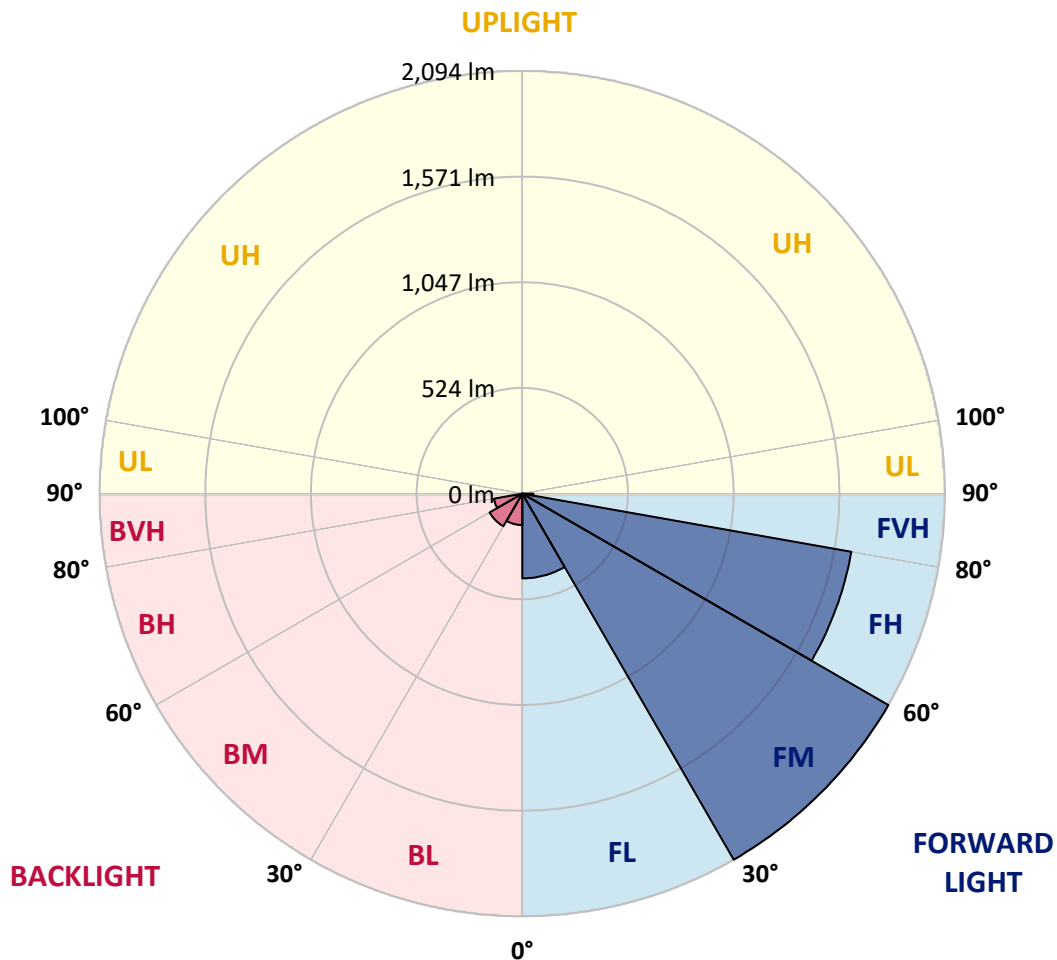


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 419.9 | 8.9 | | | |
| FM (30°-60°) | 2094.1 | 44.4 | | | |
| FH (60°-80°) | 1655.2 | 35.1 | | | G1/1800 |
| FVH (80°-90°) | 55.5 | 1.2 | | | G1/100 |
| BL (0°-30°) | 155.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 186.9 | 4.0 | B0/220 | | |
| BH (60°-80°) | 142.7 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| 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° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 |
| 2.5° | 1177.5 | 1178.8 | 1180.4 | 1182.6 | 1184.2 | 1179.4 | 1172.8 | 1165.1 | 1163.5 | 1147.3 | 1127.6 |
| 5° | 1114.5 | 1116.4 | 1130.4 | 1138.1 | 1155.3 | 1170.9 | 1180.7 | 1182.0 | 1181.4 | 1166.1 | 1134.6 |
| 7.5° | 1024.8 | 1030.2 | 1043.9 | 1057.2 | 1089.4 | 1119.0 | 1154.0 | 1178.5 | 1180.1 | 1175.9 | 1136.8 |
| 10° | 951.9 | 955.4 | 962.4 | 988.8 | 1015.5 | 1060.7 | 1109.8 | 1155.9 | 1159.7 | 1176.3 | 1134.9 |
| 12.5° | 894.9 | 900.0 | 908.6 | 929.0 | 961.1 | 1003.8 | 1059.5 | 1121.5 | 1129.5 | 1170.2 | 1129.5 |
| 15° | 855.1 | 857.7 | 866.3 | 886.3 | 917.5 | 957.0 | 1013.3 | 1085.6 | 1092.6 | 1162.3 | 1128.5 |
| 17.5° | 836.4 | 839.2 | 845.3 | 861.2 | 887.0 | 923.6 | 978.6 | 1056.6 | 1065.5 | 1157.2 | 1132.0 |
| 20° | 841.5 | 844.0 | 844.3 | 852.6 | 870.1 | 901.0 | 953.2 | 1029.6 | 1041.0 | 1154.0 | 1137.8 |
| 22.5° | 870.4 | 870.7 | 866.9 | 863.1 | 869.2 | 891.4 | 937.6 | 1012.4 | 1024.1 | 1153.4 | 1144.4 |
| 25° | 913.7 | 914.7 | 908.3 | 894.9 | 882.8 | 894.3 | 934.1 | 1001.2 | 1011.7 | 1151.8 | 1148.6 |
| 27.5° | 973.5 | 973.2 | 971.3 | 949.0 | 914.7 | 907.0 | 936.9 | 995.2 | 1004.1 | 1147.3 | 1150.2 |
| 30° | 1057.2 | 1054.7 | 1050.6 | 1025.4 | 972.9 | 937.9 | 949.0 | 991.4 | 999.6 | 1140.9 | 1146.0 |
| 32.5° | 1139.7 | 1149.2 | 1148.6 | 1124.7 | 1059.1 | 993.0 | 974.2 | 996.5 | 1002.5 | 1136.8 | 1140.0 |
| 35° | 1235.8 | 1235.5 | 1260.0 | 1251.1 | 1174.4 | 1063.3 | 1017.1 | 1013.3 | 1018.1 | 1139.7 | 1137.1 |
| 37.5° | 1324.9 | 1333.2 | 1371.4 | 1380.6 | 1310.6 | 1162.6 | 1077.9 | 1049.6 | 1051.2 | 1159.1 | 1144.1 |
| 40° | 1436.0 | 1451.9 | 1508.8 | 1539.7 | 1478.0 | 1309.9 | 1167.7 | 1116.1 | 1116.4 | 1206.8 | 1170.5 |
| 42.5° | 1579.2 | 1604.3 | 1657.5 | 1709.0 | 1675.9 | 1484.3 | 1302.3 | 1221.5 | 1220.8 | 1290.8 | 1231.0 |
| 45° | 1753.3 | 1770.8 | 1831.2 | 1913.0 | 1892.0 | 1727.8 | 1498.3 | 1384.7 | 1376.4 | 1428.6 | 1338.3 |
| 47.5° | 1903.5 | 1927.3 | 1988.8 | 2082.0 | 2177.5 | 2025.0 | 1732.6 | 1609.1 | 1603.7 | 1647.9 | 1522.2 |
| 50° | 1969.0 | 1990.0 | 2054.6 | 2185.4 | 2416.8 | 2415.2 | 2081.4 | 1936.6 | 1927.3 | 1951.2 | 1806.7 |
| 52.5° | 1897.1 | 1916.8 | 1982.1 | 2145.0 | 2529.5 | 2890.7 | 2586.8 | 2347.4 | 2336.3 | 2305.7 | 2146.6 |
| 55° | 1650.8 | 1667.0 | 1763.4 | 1950.6 | 2486.2 | 3207.7 | 3283.1 | 2855.1 | 2811.8 | 2693.1 | 2531.4 |
| 57.5° | 1314.4 | 1306.1 | 1365.9 | 1583.3 | 2232.2 | 3314.0 | 3997.9 | 3487.4 | 3410.1 | 3027.9 | 2857.0 |
| 60° | 910.8 | 936.3 | 960.5 | 1103.7 | 1678.5 | 3129.7 | 4442.5 | 4282.4 | 4180.6 | 3357.3 | 3168.9 |
| 62.5° | 669.6 | 686.5 | 702.4 | 768.6 | 1055.3 | 2498.9 | 4521.1 | 5099.1 | 5008.7 | 3707.0 | 3466.4 |
| 65° | 529.6 | 530.8 | 537.2 | 602.5 | 695.4 | 1625.0 | 4143.3 | 5559.6 | 5536.3 | 4043.7 | 3587.0 |
| 66° | 482.5 | 482.8 | 492.7 | 562.7 | 624.1 | 1323.3 | 3840.7 | 5594.6 | 5607.3 | 4124.6 | 3551.7 |
| 67.5° | 421.7 | 420.4 | 434.7 | 505.7 | 568.4 | 954.1 | 3299.0 | 5452.6 | 5528.1 | 4186.6 | 3424.7 |
| 70° | 326.8 | 325.3 | 342.8 | 424.2 | 523.5 | 636.5 | 2192.8 | 4681.8 | 4803.4 | 4059.6 | 3030.1 |
| 72.5° | 217.7 | 219.0 | 248.9 | 334.8 | 499.7 | 560.4 | 1319.2 | 3561.6 | 3733.4 | 3352.5 | 2383.7 |
| 75° | 127.0 | 129.2 | 163.3 | 248.9 | 433.8 | 534.3 | 746.6 | 2539.7 | 2649.5 | 2315.0 | 1485.0 |
| 77.5° | 66.5 | 67.5 | 91.3 | 164.2 | 332.6 | 496.2 | 497.4 | 1622.5 | 1674.0 | 1125.0 | 587.8 |
| 80° | 35.3 | 34.4 | 49.0 | 99.0 | 228.8 | 435.7 | 403.5 | 859.0 | 893.0 | 334.2 | 148.6 |
| 82.5° | 13.4 | 14.6 | 26.1 | 64.9 | 135.3 | 312.8 | 347.5 | 379.7 | 367.9 | 73.5 | 62.4 |
| 85° | 2.5 | 3.2 | 11.1 | 38.5 | 68.1 | 130.8 | 256.2 | 186.2 | 172.5 | 27.7 | 36.0 |
| 87.5° | 0.3 | 0.6 | 3.2 | 9.2 | 9.9 | 44.2 | 75.7 | 51.6 | 44.6 | 10.2 | 15.0 |
| 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° | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 |
| 2.5° | 1118.0 | 1109.4 | 1080.8 | 1052.5 | 1023.5 | 997.4 | 979.6 | 950.6 | 943.3 | 932.8 | 926.8 |
| 5° | 1115.8 | 1095.7 | 1040.7 | 980.5 | 924.5 | 864.1 | 817.9 | 773.4 | 749.5 | 737.4 | 732.9 |
| 7.5° | 1109.4 | 1077.6 | 991.7 | 897.5 | 807.7 | 717.3 | 638.7 | 578.9 | 540.4 | 514.0 | 496.2 |
| 10° | 1096.7 | 1052.8 | 934.7 | 805.2 | 669.6 | 550.3 | 450.6 | 374.9 | 316.3 | 297.9 | 298.5 |
| 12.5° | 1083.7 | 1025.1 | 871.1 | 702.7 | 534.7 | 384.1 | 278.5 | 218.6 | 190.6 | 181.4 | 179.5 |
| 15° | 1071.6 | 998.7 | 808.7 | 603.4 | 398.1 | 248.9 | 179.5 | 158.5 | 150.9 | 149.3 | 148.9 |
| 17.5° | 1065.2 | 974.2 | 742.2 | 489.8 | 277.8 | 169.0 | 143.9 | 138.1 | 135.9 | 134.3 | 133.7 |
| 20° | 1059.8 | 952.9 | 678.5 | 383.5 | 190.0 | 138.4 | 128.9 | 123.5 | 119.7 | 118.1 | 117.1 |
| 22.5° | 1056.0 | 930.9 | 612.6 | 296.9 | 145.4 | 122.8 | 114.3 | 107.3 | 101.8 | 99.9 | 98.7 |
| 25° | 1050.2 | 906.7 | 546.1 | 217.0 | 122.5 | 109.2 | 99.3 | 91.0 | 84.0 | 80.5 | 79.9 |
| 27.5° | 1042.0 | 879.3 | 473.2 | 160.7 | 109.5 | 97.1 | 85.0 | 74.8 | 67.8 | 64.0 | 64.3 |
| 30° | 1028.6 | 850.7 | 400.4 | 127.6 | 99.0 | 84.7 | 71.6 | 61.7 | 55.1 | 52.2 | 51.9 |
| 32.5° | 1012.7 | 816.0 | 333.5 | 109.5 | 89.4 | 73.5 | 59.8 | 51.2 | 46.1 | 43.9 | 43.6 |
| 35° | 997.7 | 781.0 | 265.4 | 98.3 | 79.6 | 63.3 | 50.3 | 43.0 | 39.1 | 37.2 | 37.6 |
| 37.5° | 989.5 | 749.8 | 206.9 | 89.4 | 71.6 | 54.4 | 43.3 | 36.9 | 33.4 | 31.8 | 31.5 |
| 40° | 994.9 | 724.3 | 164.5 | 81.5 | 62.7 | 46.8 | 37.2 | 31.8 | 28.3 | 26.1 | 26.1 |
| 42.5° | 1020.3 | 713.2 | 132.7 | 73.8 | 54.4 | 40.4 | 32.5 | 27.4 | 23.6 | 21.3 | 21.6 |
| 45° | 1098.0 | 725.0 | 111.1 | 66.8 | 46.8 | 35.0 | 28.0 | 22.6 | 19.1 | 17.5 | 17.2 |
| 47.5° | 1226.9 | 769.2 | 96.1 | 59.5 | 40.1 | 29.9 | 23.6 | 18.8 | 15.3 | 14.0 | 13.7 |
| 50° | 1452.2 | 860.6 | 85.0 | 52.2 | 34.1 | 25.5 | 19.4 | 15.0 | 12.1 | 10.8 | 10.8 |
| 52.5° | 1762.2 | 1059.8 | 77.0 | 43.9 | 28.6 | 21.6 | 15.9 | 12.1 | 9.5 | 8.6 | 8.3 |
| 55° | 2086.2 | 1269.8 | 72.9 | 36.9 | 23.9 | 17.8 | 12.7 | 9.5 | 7.3 | 6.4 | 6.0 |
| 57.5° | 2397.7 | 1434.7 | 68.1 | 29.9 | 19.1 | 13.7 | 9.9 | 7.3 | 5.1 | 4.5 | 4.1 |
| 60° | 2696.6 | 1568.0 | 57.9 | 23.9 | 15.0 | 9.9 | 7.3 | 5.1 | 3.5 | 2.9 | 2.9 |
| 62.5° | 2963.9 | 1645.7 | 45.5 | 19.1 | 11.5 | 7.0 | 4.8 | 3.8 | 2.5 | 1.9 | 1.9 |
| 65° | 2995.1 | 1544.8 | 34.4 | 14.6 | 8.3 | 4.5 | 2.9 | 2.9 | 1.9 | 1.3 | 1.3 |
| 66° | 2932.4 | 1459.2 | 30.2 | 13.4 | 7.3 | 3.8 | 2.5 | 2.2 | 1.6 | 1.0 | 1.0 |
| 67.5° | 2792.4 | 1313.1 | 26.1 | 11.5 | 6.0 | 2.9 | 1.9 | 1.9 | 1.3 | 0.6 | 0.6 |
| 70° | 2412.7 | 1072.5 | 20.7 | 8.6 | 4.5 | 2.2 | 1.3 | 1.3 | 1.0 | 0.6 | 0.6 |
| 72.5° | 1838.9 | 800.7 | 16.9 | 6.4 | 3.2 | 1.6 | 1.0 | 1.0 | 1.0 | 0.6 | 0.6 |
| 75° | 1109.1 | 431.2 | 13.0 | 4.8 | 2.9 | 1.3 | 0.6 | 1.0 | 1.3 | 1.0 | 0.6 |
| 77.5° | 408.6 | 146.7 | 10.2 | 3.8 | 2.2 | 1.3 | 0.6 | 0.6 | 1.3 | 1.0 | 1.0 |
| 80° | 100.2 | 38.2 | 7.3 | 3.2 | 2.2 | 1.3 | 0.6 | 0.6 | 1.3 | 1.3 | 1.3 |
| 82.5° | 46.5 | 16.2 | 5.1 | 2.9 | 2.2 | 1.3 | 0.6 | 0.6 | 1.0 | 1.3 | 1.3 |
| 85° | 26.7 | 7.6 | 4.1 | 3.2 | 2.2 | 1.3 | 0.6 | 0.6 | 1.0 | 1.3 | 1.3 |
| 87.5° | 10.8 | 3.8 | 3.8 | 3.2 | 2.5 | 1.6 | 0.6 | 0.6 | 0.6 | 1.0 | 1.0 |
| 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)