

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: P382776

Luminaire Tested: **GAN-SA1C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5599.5 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

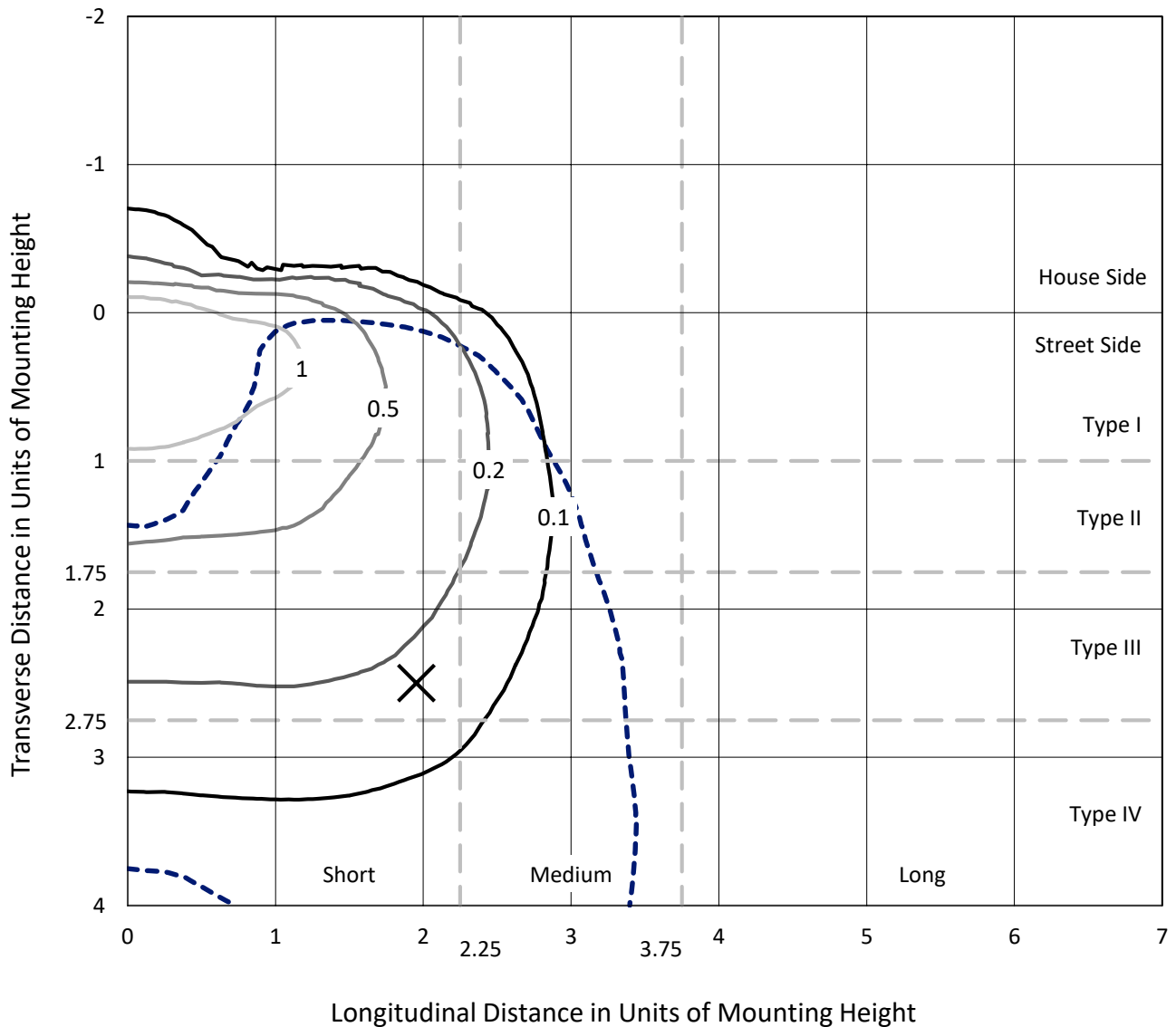
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382776
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Iso-Footcandle Lines of Horizontal Illumination

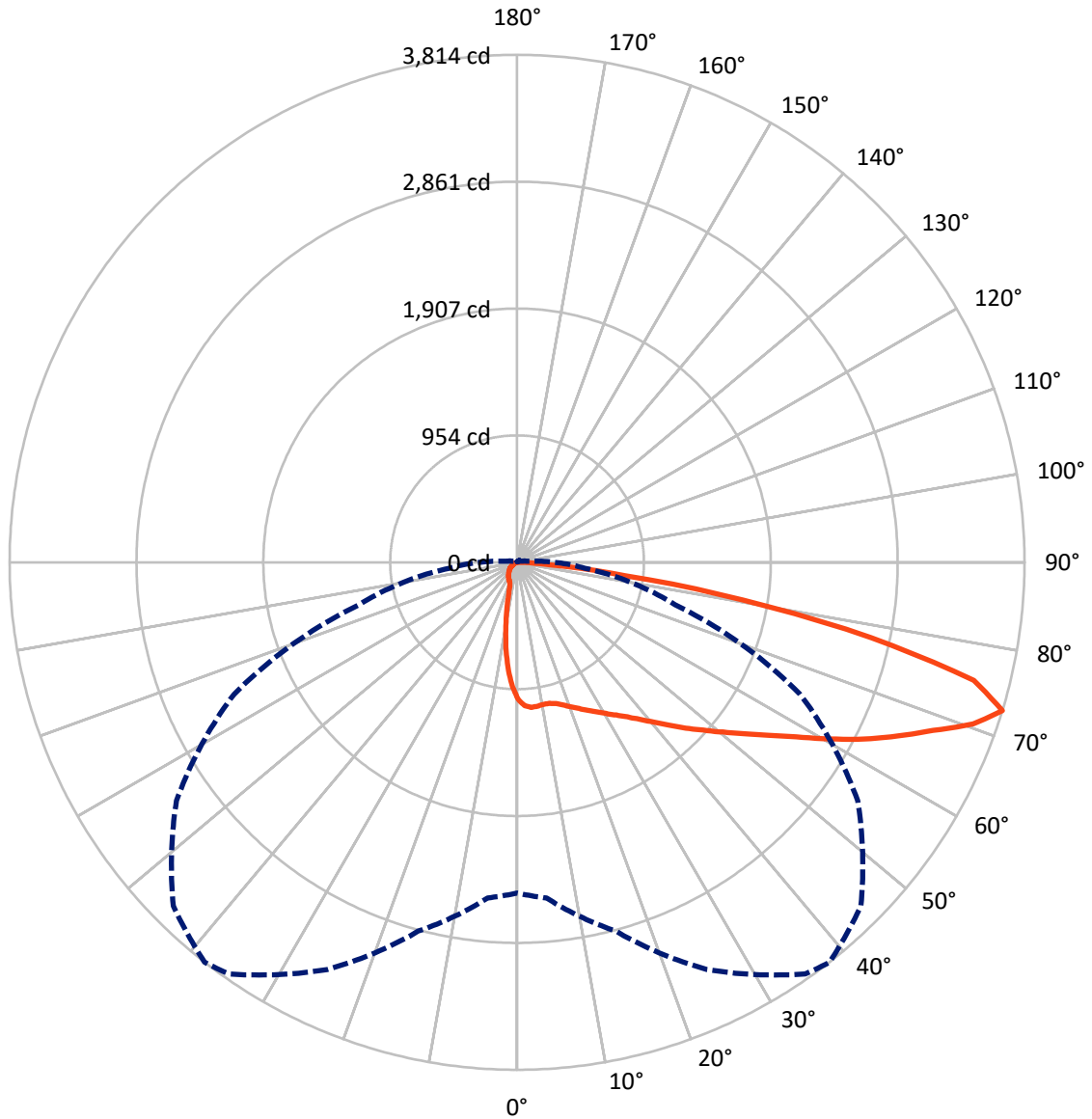
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: GAN-SA1C-735-U-SL4-HSS

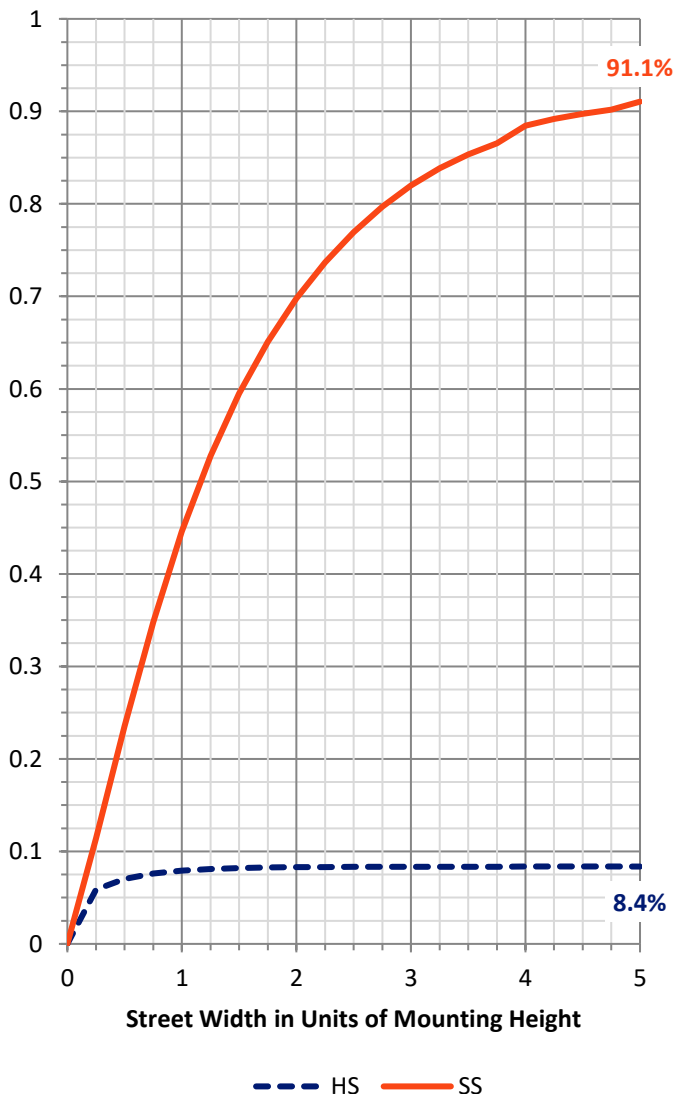
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 471.2 | 0.0 | 471.2 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 5128.3 | 0.0 | 5128.3 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 5599.5 | 0.0 | 5599.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.8 | 1.6 |
| 10°-20° | 214.6 | 3.8 |
| 20°-30° | 341.3 | 6.1 |
| 30°-40° | 513.1 | 9.2 |
| 40°-50° | 782.7 | 14.0 |
| 50°-60° | 1106.3 | 19.8 |
| 60°-70° | 1387.6 | 24.8 |
| 70°-80° | 1037.6 | 18.5 |
| 80°-90° | 128.6 | 2.3 |
| 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° | 5599.5 | 100.0 |
| 0°-180° | 5599.5 | 100.0 |

Coefficient of Utilization

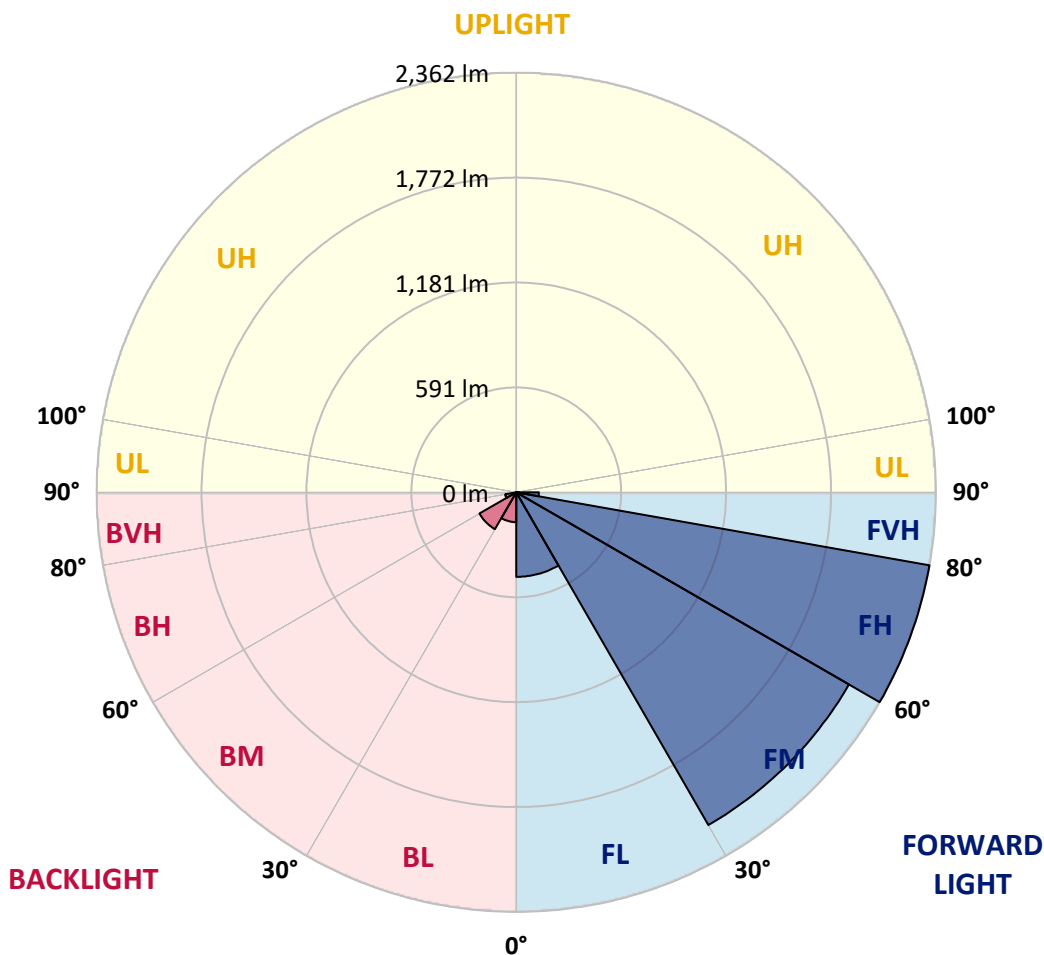


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.8 | 8.5 | | | |
| FM (30°-60°) | 2162.8 | 38.6 | | | |
| FH (60°-80°) | 2362.2 | 42.2 | | | G2/5000 |
| FVH (80°-90°) | 127.5 | 2.3 | | | G2/225 |
| BL (0°-30°) | 167.8 | 3.0 | B1/500 | | |
| BM (30°-60°) | 239.3 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 62.9 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 |
| 2.5° | 1093.0 | 1093.3 | 1090.7 | 1086.5 | 1081.2 | 1078.4 | 1073.7 | 1066.2 | 1058.3 | 1044.2 | 1028.8 |
| 5° | 1115.3 | 1115.3 | 1112.1 | 1106.5 | 1097.8 | 1095.3 | 1086.5 | 1074.6 | 1058.3 | 1035.3 | 1009.5 |
| 7.5° | 1113.0 | 1113.5 | 1109.0 | 1103.2 | 1094.7 | 1092.3 | 1081.6 | 1068.3 | 1048.1 | 1020.2 | 987.2 |
| 10° | 1100.9 | 1102.0 | 1098.6 | 1095.8 | 1087.9 | 1085.3 | 1075.3 | 1062.1 | 1041.8 | 1012.0 | 974.1 |
| 12.5° | 1088.6 | 1089.7 | 1090.9 | 1093.5 | 1088.6 | 1087.7 | 1079.8 | 1068.6 | 1049.3 | 1018.4 | 975.5 |
| 15° | 1080.7 | 1083.0 | 1091.4 | 1101.4 | 1102.5 | 1101.6 | 1096.4 | 1086.0 | 1066.4 | 1034.4 | 985.6 |
| 17.5° | 1080.7 | 1084.4 | 1101.8 | 1120.9 | 1127.6 | 1128.4 | 1123.9 | 1109.3 | 1086.0 | 1051.6 | 994.9 |
| 20° | 1089.7 | 1094.8 | 1122.0 | 1149.1 | 1160.2 | 1160.2 | 1151.6 | 1131.1 | 1103.9 | 1067.2 | 1001.1 |
| 22.5° | 1113.0 | 1119.7 | 1153.9 | 1185.1 | 1196.9 | 1194.3 | 1182.8 | 1153.0 | 1122.5 | 1084.9 | 1009.1 |
| 25° | 1158.8 | 1163.9 | 1199.5 | 1230.9 | 1238.1 | 1232.3 | 1217.6 | 1179.5 | 1146.3 | 1108.8 | 1023.5 |
| 27.5° | 1217.9 | 1218.6 | 1255.4 | 1281.8 | 1277.4 | 1273.4 | 1255.1 | 1212.8 | 1180.5 | 1143.0 | 1048.4 |
| 30° | 1282.7 | 1282.7 | 1315.1 | 1335.3 | 1321.9 | 1318.6 | 1300.2 | 1253.0 | 1224.1 | 1189.5 | 1083.7 |
| 32.5° | 1345.5 | 1348.3 | 1374.6 | 1387.4 | 1372.3 | 1369.0 | 1351.1 | 1303.9 | 1282.3 | 1260.4 | 1138.8 |
| 35° | 1406.3 | 1408.3 | 1433.2 | 1440.2 | 1425.7 | 1426.7 | 1413.9 | 1373.9 | 1365.7 | 1362.9 | 1221.8 |
| 37.5° | 1465.0 | 1465.5 | 1490.8 | 1495.3 | 1488.1 | 1496.0 | 1497.2 | 1461.8 | 1477.0 | 1499.5 | 1338.8 |
| 40° | 1518.8 | 1519.3 | 1544.4 | 1555.8 | 1568.1 | 1578.3 | 1587.4 | 1568.5 | 1618.6 | 1670.9 | 1478.1 |
| 42.5° | 1561.8 | 1566.7 | 1598.5 | 1620.1 | 1652.8 | 1672.3 | 1696.9 | 1696.0 | 1787.2 | 1865.8 | 1646.4 |
| 45° | 1599.7 | 1608.1 | 1652.5 | 1690.4 | 1746.2 | 1777.4 | 1816.0 | 1846.2 | 1976.9 | 2082.8 | 1816.9 |
| 47.5° | 1649.7 | 1657.6 | 1708.4 | 1770.4 | 1844.8 | 1885.7 | 1949.7 | 2015.0 | 2185.5 | 2295.7 | 1983.5 |
| 50° | 1720.2 | 1716.7 | 1766.7 | 1855.7 | 1951.3 | 2005.1 | 2096.2 | 2194.1 | 2392.5 | 2481.4 | 2081.4 |
| 52.5° | 1795.3 | 1793.9 | 1830.9 | 1948.5 | 2076.9 | 2139.7 | 2260.1 | 2379.3 | 2590.4 | 2609.3 | 2126.3 |
| 55° | 1888.3 | 1878.3 | 1909.5 | 2054.3 | 2225.9 | 2293.4 | 2435.3 | 2562.5 | 2748.1 | 2681.3 | 2148.8 |
| 57.5° | 1985.8 | 1969.2 | 1999.0 | 2172.3 | 2394.1 | 2473.9 | 2629.2 | 2741.1 | 2853.0 | 2730.6 | 2148.5 |
| 60° | 2086.5 | 2066.9 | 2102.2 | 2319.7 | 2602.9 | 2695.2 | 2839.5 | 2861.8 | 2950.9 | 2755.5 | 2132.7 |
| 62.5° | 2170.6 | 2159.0 | 2211.6 | 2477.4 | 2836.2 | 2926.9 | 2998.3 | 2971.5 | 3033.4 | 2774.8 | 2095.7 |
| 65° | 2259.7 | 2260.4 | 2345.3 | 2661.3 | 3084.1 | 3145.3 | 3151.3 | 3113.9 | 3102.4 | 2770.9 | 1970.6 |
| 67.5° | 2380.2 | 2391.3 | 2533.0 | 2911.1 | 3325.3 | 3372.5 | 3372.0 | 3268.1 | 3152.9 | 2613.6 | 1693.2 |
| 70° | 2507.6 | 2533.9 | 2749.2 | 3196.9 | 3588.5 | 3636.4 | 3611.7 | 3366.1 | 2968.7 | 2113.4 | 1198.3 |
| 72.5° | 2486.2 | 2531.8 | 2869.4 | 3377.1 | 3777.5 | 3814.0 | 3653.8 | 3125.1 | 2346.5 | 1228.3 | 510.2 |
| 75° | 1918.1 | 1970.9 | 2631.1 | 3198.5 | 3579.2 | 3546.4 | 3139.4 | 2431.8 | 1282.3 | 342.8 | 114.9 |
| 77.5° | 1013.2 | 1041.4 | 1738.1 | 2436.6 | 2790.8 | 2722.3 | 2211.6 | 1349.1 | 390.9 | 84.9 | 51.6 |
| 80° | 530.7 | 537.2 | 757.4 | 1382.5 | 1722.5 | 1723.0 | 1310.7 | 592.6 | 161.2 | 43.5 | 34.7 |
| 82.5° | 284.2 | 289.8 | 400.2 | 638.9 | 902.6 | 818.1 | 501.8 | 326.0 | 93.7 | 24.7 | 33.3 |
| 85° | 68.4 | 69.5 | 226.9 | 291.9 | 354.8 | 253.5 | 149.0 | 273.7 | 25.3 | 14.4 | 27.0 |
| 87.5° | 26.3 | 26.7 | 84.2 | 126.3 | 90.5 | 58.6 | 69.8 | 102.1 | 3.3 | 5.6 | 4.2 |
| 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° | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 | 1029.7 |
| 2.5° | 1019.5 | 1013.4 | 998.6 | 979.7 | 963.0 | 950.9 | 932.8 | 920.9 | 913.0 | 912.7 | 909.7 |
| 5° | 993.7 | 981.4 | 949.2 | 911.1 | 876.5 | 845.3 | 808.6 | 779.5 | 757.9 | 754.4 | 746.9 |
| 7.5° | 966.0 | 945.8 | 896.5 | 837.0 | 778.8 | 719.7 | 651.2 | 608.6 | 572.1 | 554.6 | 552.8 |
| 10° | 949.1 | 920.6 | 850.7 | 764.6 | 673.5 | 577.5 | 487.7 | 425.5 | 380.7 | 367.9 | 358.4 |
| 12.5° | 945.5 | 908.1 | 815.3 | 696.7 | 566.5 | 439.5 | 340.2 | 274.2 | 238.4 | 226.9 | 223.9 |
| 15° | 949.1 | 902.3 | 785.6 | 629.5 | 458.1 | 311.9 | 228.3 | 190.0 | 176.5 | 173.3 | 173.0 |
| 17.5° | 951.1 | 895.3 | 751.9 | 554.8 | 353.1 | 222.8 | 174.9 | 163.7 | 161.6 | 161.3 | 161.8 |
| 20° | 950.9 | 884.6 | 711.6 | 471.6 | 262.5 | 175.1 | 158.2 | 155.8 | 155.4 | 155.6 | 155.4 |
| 22.5° | 949.2 | 872.0 | 667.5 | 385.8 | 198.3 | 156.5 | 150.9 | 149.5 | 149.3 | 149.3 | 149.3 |
| 25° | 952.3 | 862.1 | 618.8 | 303.7 | 163.5 | 147.9 | 144.4 | 143.3 | 143.0 | 143.0 | 142.5 |
| 27.5° | 963.2 | 856.5 | 565.5 | 233.7 | 147.7 | 140.2 | 137.4 | 137.2 | 136.5 | 136.3 | 136.8 |
| 30° | 980.9 | 856.5 | 507.2 | 181.8 | 138.1 | 132.3 | 130.2 | 129.8 | 129.5 | 129.3 | 129.5 |
| 32.5° | 1012.0 | 863.0 | 443.5 | 151.2 | 129.0 | 123.5 | 122.1 | 122.8 | 122.1 | 122.1 | 122.1 |
| 35° | 1068.3 | 882.5 | 376.7 | 131.8 | 119.5 | 114.9 | 113.5 | 114.4 | 113.9 | 113.9 | 113.7 |
| 37.5° | 1150.5 | 918.8 | 309.6 | 120.3 | 111.1 | 106.3 | 104.4 | 105.8 | 105.4 | 105.4 | 105.1 |
| 40° | 1250.4 | 971.6 | 245.6 | 111.4 | 103.0 | 97.9 | 96.3 | 97.0 | 95.9 | 95.9 | 96.3 |
| 42.5° | 1373.9 | 1038.6 | 189.8 | 102.7 | 94.9 | 90.0 | 89.1 | 88.4 | 86.3 | 85.1 | 85.3 |
| 45° | 1511.2 | 1108.4 | 147.9 | 94.5 | 87.2 | 83.3 | 81.9 | 80.0 | 76.5 | 74.2 | 74.4 |
| 47.5° | 1633.7 | 1162.0 | 120.3 | 86.3 | 80.2 | 77.2 | 75.1 | 71.6 | 66.5 | 63.7 | 64.0 |
| 50° | 1698.1 | 1170.2 | 102.3 | 78.2 | 73.7 | 70.7 | 67.6 | 62.3 | 56.3 | 53.3 | 53.0 |
| 52.5° | 1714.6 | 1132.0 | 89.1 | 70.7 | 67.2 | 63.7 | 59.8 | 52.5 | 45.8 | 42.6 | 42.1 |
| 55° | 1720.7 | 1073.9 | 77.2 | 63.7 | 60.3 | 56.3 | 51.1 | 43.0 | 36.7 | 33.4 | 33.3 |
| 57.5° | 1700.6 | 987.2 | 67.9 | 57.5 | 53.3 | 48.3 | 42.1 | 34.4 | 28.4 | 25.8 | 25.8 |
| 60° | 1656.2 | 869.8 | 60.7 | 50.7 | 46.0 | 40.4 | 33.9 | 26.7 | 21.1 | 19.1 | 19.1 |
| 62.5° | 1567.6 | 717.7 | 53.9 | 43.7 | 39.3 | 33.4 | 27.5 | 20.2 | 14.9 | 13.7 | 14.0 |
| 65° | 1400.4 | 544.4 | 47.2 | 37.4 | 33.4 | 27.7 | 21.4 | 14.4 | 10.0 | 10.0 | 10.4 |
| 67.5° | 1142.1 | 378.1 | 40.2 | 31.9 | 28.9 | 22.5 | 16.3 | 10.0 | 7.0 | 7.9 | 8.8 |
| 70° | 756.0 | 212.1 | 34.4 | 26.3 | 24.7 | 17.9 | 12.1 | 6.7 | 5.6 | 7.5 | 9.0 |
| 72.5° | 285.3 | 82.5 | 28.9 | 21.1 | 21.4 | 13.7 | 8.6 | 5.1 | 5.1 | 8.1 | 10.7 |
| 75° | 79.6 | 40.4 | 20.7 | 15.6 | 16.8 | 10.0 | 6.2 | 4.4 | 4.8 | 9.3 | 12.6 |
| 77.5° | 46.8 | 29.8 | 13.5 | 9.0 | 11.4 | 7.0 | 4.2 | 3.4 | 4.2 | 7.9 | 12.1 |
| 80° | 37.6 | 15.8 | 7.9 | 4.7 | 6.2 | 3.9 | 2.8 | 2.0 | 1.1 | 3.0 | 6.2 |
| 82.5° | 37.6 | 9.5 | 3.7 | 3.3 | 3.3 | 2.0 | 1.4 | 0.9 | 0.2 | 0.0 | 1.6 |
| 85° | 25.3 | 3.9 | 2.3 | 2.0 | 1.6 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.2 | 1.6 | 0.9 | 0.5 | 0.2 | 0.0 | 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)