

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: P452995

Luminaire Tested: **GLAN-SA4A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11108 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

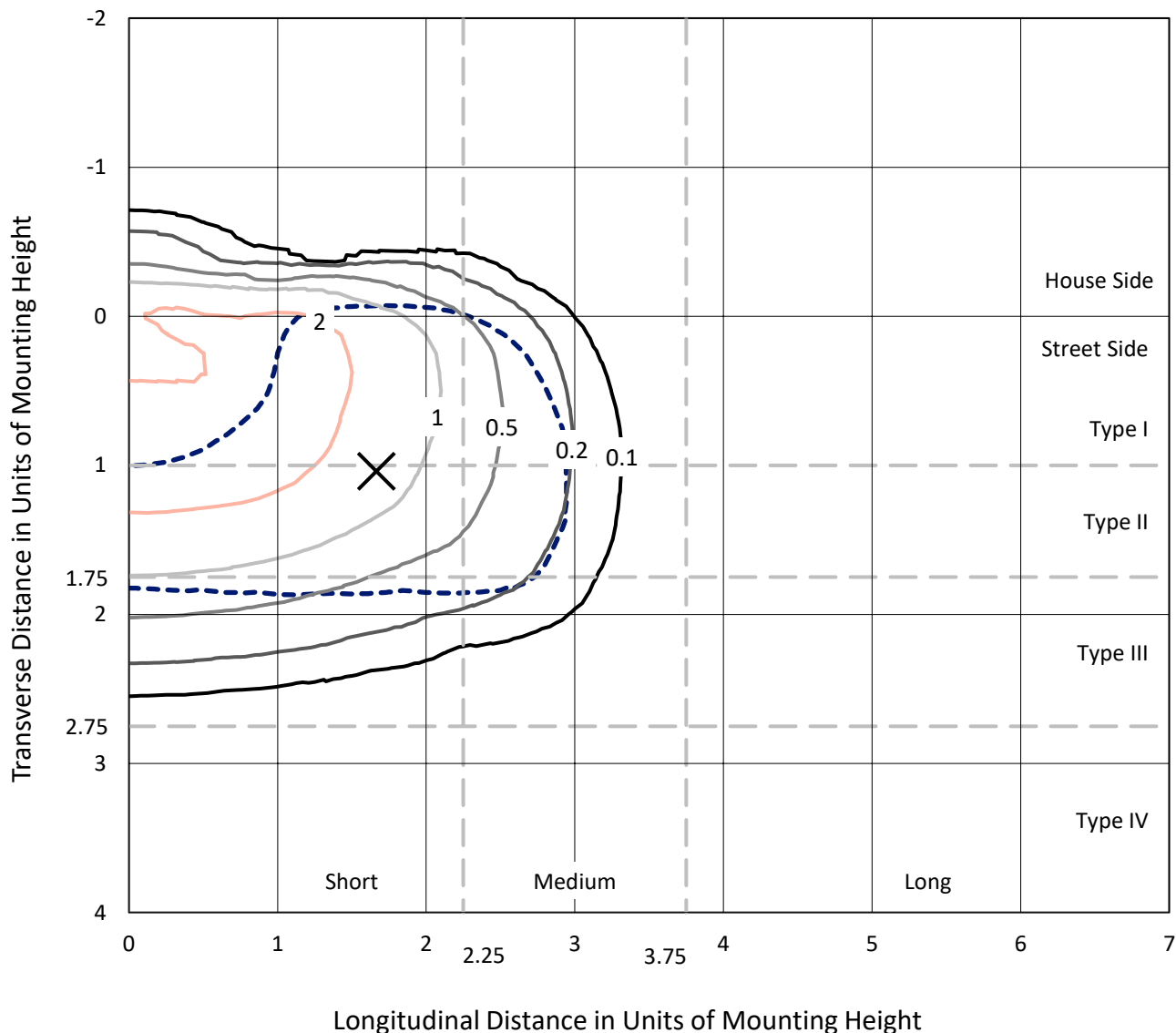
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

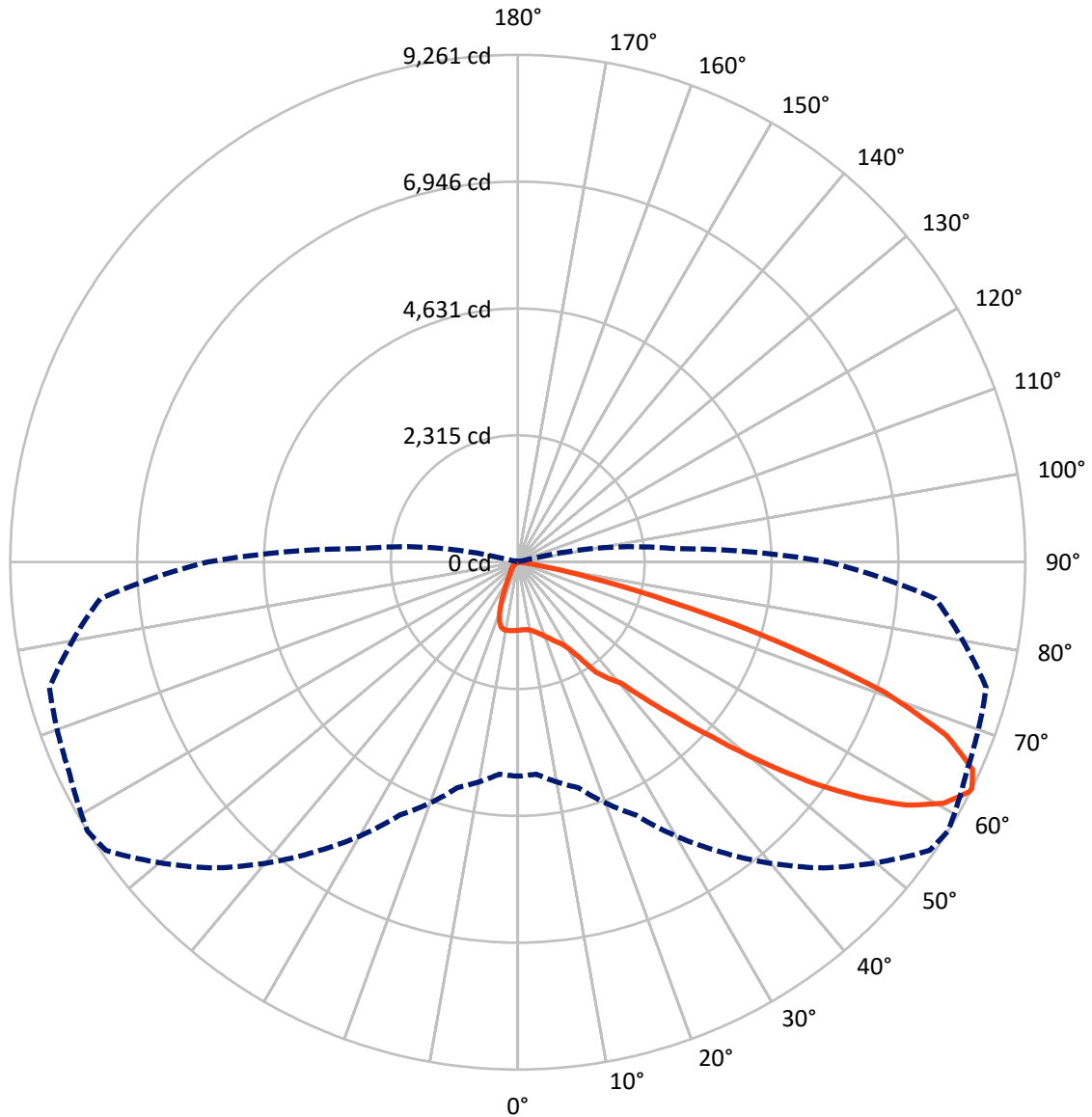
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1150.2 | 0.0 | 1150.2 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 9957.8 | 0.0 | 9957.8 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 11108.0 | 0.0 | 11108.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 116.4 | 1.0 |
| 10°-20° | 317.1 | 2.9 |
| 20°-30° | 550.3 | 5.0 |
| 30°-40° | 1011.2 | 9.1 |
| 40°-50° | 1903.6 | 17.1 |
| 50°-60° | 3256.0 | 29.3 |
| 60°-70° | 3117.6 | 28.1 |
| 70°-80° | 795.0 | 7.2 |
| 80°-90° | 40.7 | 0.4 |
| 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° | 11108.0 | 100.0 |
| 0°-180° | 11108.0 | 100.0 |

Coefficient of Utilization



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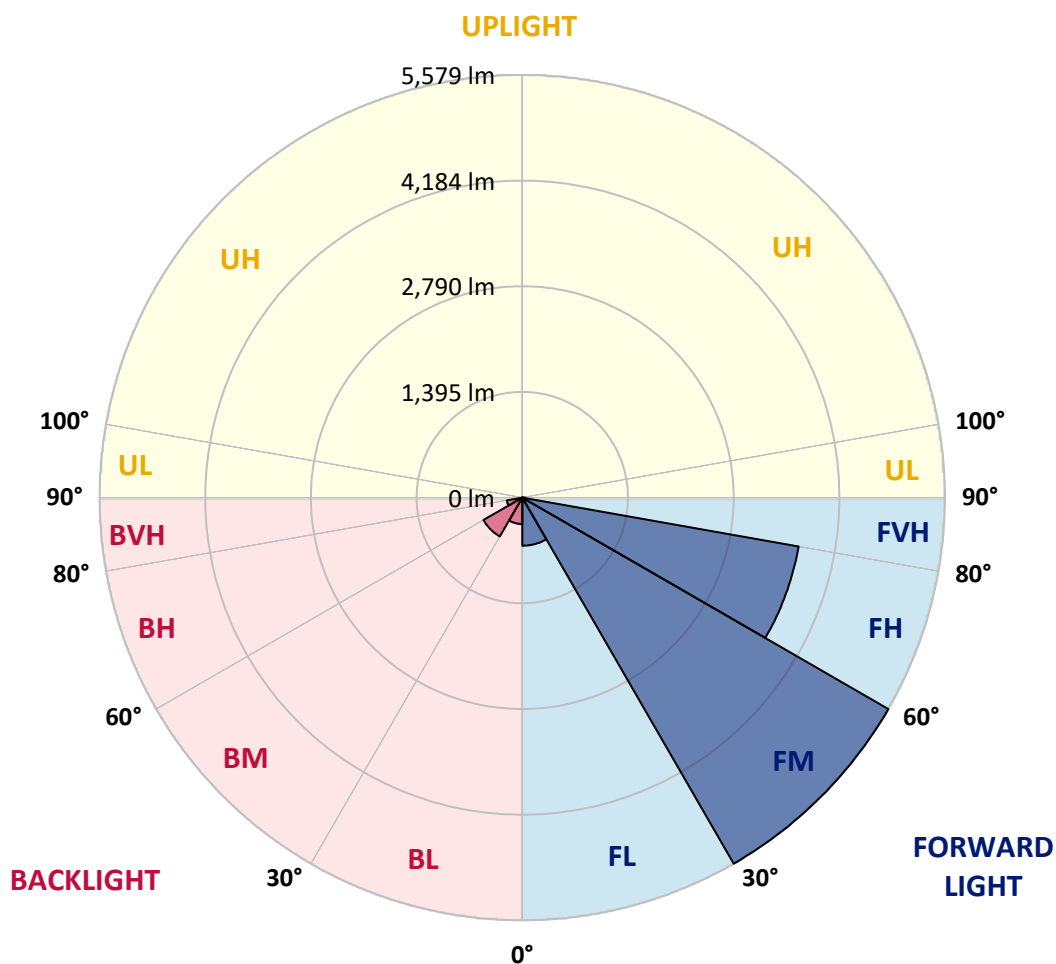
CATALOG NUMBER: GLAN-SA4A-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 635.0 | 5.7 | | | |
| FM | (30°-60°) | 5579.3 | 50.2 | | | |
| FH | (60°-80°) | 3704.5 | 33.3 | | | G2/5000 |
| FVH | (80°-90°) | 39.1 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 348.8 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 591.6 | 5.3 | B1/1000 | | |
| BH | (60°-80°) | 208.2 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.6 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 |
| 2.5° | 1212.6 | 1216.8 | 1221.0 | 1222.7 | 1228.5 | 1234.4 | 1238.6 | 1237.7 | 1244.4 | 1247.8 | 1247.8 |
| 5° | 1164.1 | 1164.1 | 1175.0 | 1185.0 | 1201.8 | 1218.5 | 1234.4 | 1237.7 | 1250.3 | 1262.0 | 1266.2 |
| 7.5° | 1123.2 | 1125.7 | 1134.0 | 1152.4 | 1175.0 | 1204.3 | 1236.1 | 1243.6 | 1265.3 | 1291.3 | 1302.1 |
| 10° | 1103.9 | 1105.6 | 1116.5 | 1135.7 | 1164.1 | 1204.3 | 1248.6 | 1262.8 | 1296.3 | 1337.2 | 1352.3 |
| 12.5° | 1099.7 | 1102.2 | 1113.1 | 1134.9 | 1167.5 | 1216.0 | 1276.2 | 1291.3 | 1339.8 | 1392.4 | 1415.0 |
| 15° | 1107.3 | 1108.9 | 1119.8 | 1143.2 | 1179.2 | 1236.9 | 1313.0 | 1333.9 | 1391.6 | 1452.7 | 1481.9 |
| 17.5° | 1134.0 | 1132.4 | 1139.9 | 1159.1 | 1199.3 | 1262.8 | 1357.3 | 1382.4 | 1450.2 | 1533.8 | 1553.0 |
| 20° | 1247.8 | 1236.9 | 1230.2 | 1213.5 | 1229.4 | 1299.6 | 1410.8 | 1447.6 | 1531.3 | 1616.6 | 1630.0 |
| 22.5° | 1492.8 | 1468.5 | 1420.9 | 1355.6 | 1305.5 | 1349.8 | 1475.2 | 1517.9 | 1625.8 | 1709.4 | 1709.4 |
| 25° | 1804.7 | 1773.8 | 1726.1 | 1584.0 | 1461.0 | 1432.6 | 1548.0 | 1601.5 | 1728.6 | 1813.1 | 1785.5 |
| 27.5° | 2195.3 | 2171.0 | 2078.2 | 1912.6 | 1724.5 | 1577.3 | 1632.5 | 1681.8 | 1819.8 | 1921.8 | 1864.1 |
| 30° | 2513.1 | 2501.4 | 2425.3 | 2277.3 | 2069.9 | 1854.9 | 1789.7 | 1822.3 | 1941.1 | 2059.0 | 1999.6 |
| 32.5° | 2781.5 | 2781.5 | 2703.8 | 2565.8 | 2371.8 | 2181.1 | 2056.5 | 2079.9 | 2193.6 | 2329.9 | 2219.5 |
| 35° | 3076.8 | 3066.7 | 3004.0 | 2872.7 | 2655.3 | 2487.2 | 2436.2 | 2467.9 | 2570.8 | 2672.0 | 2400.2 |
| 37.5° | 3387.0 | 3383.7 | 3318.5 | 3191.3 | 3014.0 | 2802.5 | 2682.9 | 2691.2 | 2743.9 | 2805.8 | 2611.8 |
| 40° | 3724.1 | 3729.1 | 3643.8 | 3565.2 | 3397.9 | 3181.3 | 2952.2 | 2899.5 | 2948.8 | 3123.6 | 3002.3 |
| 42.5° | 4122.1 | 4110.4 | 4073.6 | 3966.6 | 3831.9 | 3702.3 | 3427.2 | 3407.9 | 3451.4 | 3638.8 | 3507.5 |
| 45° | 4584.6 | 4601.3 | 4537.8 | 4478.4 | 4388.1 | 4280.2 | 4050.2 | 4016.8 | 4064.4 | 4355.5 | 4169.0 |
| 47.5° | 5047.9 | 5032.0 | 5073.0 | 5062.1 | 5110.7 | 5030.4 | 4827.1 | 4758.6 | 4873.1 | 5149.1 | 4874.8 |
| 50° | 5400.8 | 5418.4 | 5503.7 | 5628.3 | 5836.6 | 5881.7 | 5686.9 | 5663.4 | 5714.5 | 5891.8 | 5506.2 |
| 52.5° | 5630.0 | 5688.5 | 5822.3 | 6142.7 | 6518.2 | 6810.0 | 6662.0 | 6649.5 | 6628.5 | 6676.2 | 6110.0 |
| 55° | 5779.7 | 5839.1 | 6013.9 | 6485.5 | 7132.0 | 7606.2 | 7613.7 | 7560.2 | 7422.2 | 7387.9 | 6674.5 |
| 57.5° | 5687.7 | 5699.4 | 5948.6 | 6579.2 | 7472.4 | 8174.0 | 8419.9 | 8366.4 | 8111.3 | 7981.7 | 7173.0 |
| 60° | 5112.3 | 5136.6 | 5483.6 | 6224.6 | 7324.3 | 8359.7 | 8954.3 | 8930.1 | 8650.7 | 8504.4 | 7561.0 |
| 62.5° | 4092.9 | 4163.1 | 4520.2 | 5346.5 | 6636.1 | 8046.9 | 9170.9 | 9239.5 | 9022.0 | 8820.5 | 7683.1 |
| 63° | 3905.5 | 3883.0 | 4260.1 | 5090.6 | 6453.8 | 7892.2 | 9174.3 | 9261.2 | 9038.8 | 8850.6 | 7649.7 |
| 65° | 2891.1 | 2958.8 | 3203.9 | 4014.3 | 5370.7 | 7172.1 | 8967.7 | 9121.6 | 8976.9 | 8717.6 | 7279.2 |
| 67.5° | 1623.3 | 1619.9 | 1890.9 | 2626.8 | 3759.2 | 5625.8 | 8108.8 | 8434.1 | 8404.0 | 7822.8 | 6033.9 |
| 70° | 794.5 | 807.0 | 918.3 | 1361.5 | 2180.2 | 3881.3 | 6738.1 | 7089.3 | 7100.2 | 6144.3 | 4172.3 |
| 72.5° | 359.6 | 365.5 | 444.9 | 663.2 | 1120.6 | 2066.5 | 4643.2 | 4978.5 | 4916.6 | 3915.6 | 2304.0 |
| 75° | 189.8 | 202.4 | 245.0 | 333.7 | 540.3 | 852.2 | 2525.6 | 2850.1 | 2720.5 | 1788.9 | 848.0 |
| 77.5° | 140.5 | 144.7 | 166.4 | 212.4 | 289.4 | 332.0 | 1089.7 | 1296.3 | 1214.3 | 647.3 | 281.0 |
| 80° | 102.9 | 106.2 | 123.8 | 150.5 | 182.3 | 168.9 | 410.6 | 470.8 | 422.3 | 219.9 | 86.1 |
| 82.5° | 62.7 | 63.6 | 90.3 | 112.1 | 114.6 | 94.5 | 135.5 | 145.5 | 152.2 | 123.8 | 46.8 |
| 85° | 22.6 | 28.4 | 61.1 | 81.1 | 67.7 | 47.7 | 56.9 | 62.7 | 68.6 | 78.6 | 27.6 |
| 87.5° | 2.5 | 3.3 | 29.3 | 39.3 | 19.2 | 17.6 | 20.9 | 23.4 | 25.1 | 29.3 | 13.4 |
| 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° | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 | 1243.6 |
| 2.5° | 1251.1 | 1254.5 | 1251.9 | 1247.8 | 1246.9 | 1244.4 | 1239.4 | 1239.4 | 1239.4 | 1241.1 | 1239.4 |
| 5° | 1269.5 | 1272.0 | 1266.2 | 1257.8 | 1248.6 | 1236.9 | 1224.3 | 1216.8 | 1216.0 | 1214.3 | 1210.1 |
| 7.5° | 1304.6 | 1308.0 | 1294.6 | 1274.5 | 1249.4 | 1221.0 | 1194.2 | 1169.2 | 1157.4 | 1148.2 | 1148.2 |
| 10° | 1355.6 | 1359.0 | 1332.2 | 1296.3 | 1246.1 | 1188.4 | 1124.8 | 1067.1 | 1022.0 | 1001.1 | 996.0 |
| 12.5° | 1416.7 | 1418.4 | 1374.0 | 1311.3 | 1228.5 | 1117.3 | 981.8 | 855.5 | 767.7 | 727.6 | 723.4 |
| 15° | 1483.6 | 1471.9 | 1413.4 | 1317.2 | 1178.4 | 970.9 | 736.8 | 582.1 | 490.9 | 464.1 | 474.2 |
| 17.5° | 1551.3 | 1529.6 | 1443.5 | 1308.0 | 1065.5 | 736.8 | 495.1 | 397.2 | 368.8 | 361.3 | 361.3 |
| 20° | 1614.9 | 1584.8 | 1465.2 | 1267.8 | 869.8 | 507.6 | 367.1 | 343.7 | 338.7 | 333.7 | 334.5 |
| 22.5° | 1678.5 | 1632.5 | 1484.4 | 1178.4 | 648.1 | 363.0 | 328.7 | 321.1 | 314.5 | 307.8 | 306.9 |
| 25° | 1740.3 | 1676.8 | 1492.0 | 1012.8 | 441.6 | 311.9 | 300.2 | 290.2 | 276.8 | 269.3 | 267.6 |
| 27.5° | 1804.7 | 1730.3 | 1486.9 | 803.7 | 322.0 | 279.3 | 267.6 | 253.4 | 237.5 | 224.1 | 224.1 |
| 30° | 1928.5 | 1832.3 | 1469.4 | 577.9 | 271.0 | 245.9 | 230.8 | 208.2 | 190.7 | 177.3 | 176.5 |
| 32.5° | 2097.4 | 1965.3 | 1409.2 | 406.4 | 240.9 | 216.6 | 194.0 | 168.9 | 150.5 | 140.5 | 140.5 |
| 35° | 2248.0 | 2099.1 | 1296.3 | 299.4 | 216.6 | 188.2 | 160.6 | 136.3 | 122.1 | 115.4 | 112.9 |
| 37.5° | 2477.1 | 2294.8 | 1140.7 | 243.4 | 193.2 | 163.1 | 134.6 | 112.1 | 100.4 | 95.3 | 95.3 |
| 40° | 2820.9 | 2534.0 | 950.0 | 213.3 | 170.6 | 138.8 | 112.1 | 94.5 | 85.3 | 79.4 | 79.4 |
| 42.5° | 3247.4 | 2826.7 | 756.9 | 191.5 | 149.7 | 119.6 | 93.7 | 80.3 | 71.9 | 67.7 | 66.9 |
| 45° | 3784.3 | 3135.3 | 582.9 | 171.4 | 133.0 | 102.0 | 79.4 | 67.7 | 59.4 | 56.9 | 57.7 |
| 47.5° | 4344.6 | 3407.1 | 451.6 | 153.9 | 115.4 | 86.1 | 67.7 | 58.5 | 52.7 | 49.3 | 49.3 |
| 50° | 4823.0 | 3594.4 | 342.9 | 133.8 | 102.0 | 72.8 | 59.4 | 52.7 | 47.7 | 46.0 | 45.2 |
| 52.5° | 5222.7 | 3648.8 | 262.6 | 116.2 | 89.5 | 62.7 | 52.7 | 47.7 | 43.5 | 41.0 | 41.0 |
| 55° | 5563.1 | 3601.1 | 205.7 | 97.8 | 75.3 | 54.4 | 46.8 | 42.7 | 37.6 | 35.1 | 34.3 |
| 57.5° | 5762.1 | 3448.1 | 157.2 | 81.1 | 61.1 | 45.2 | 41.0 | 36.0 | 30.1 | 25.9 | 25.9 |
| 60° | 5862.5 | 3225.6 | 120.4 | 66.9 | 46.8 | 36.0 | 33.5 | 26.8 | 20.9 | 17.6 | 16.7 |
| 62.5° | 5742.1 | 2930.4 | 91.2 | 52.7 | 35.1 | 26.8 | 22.6 | 19.2 | 13.4 | 10.0 | 10.0 |
| 63° | 5667.6 | 2845.1 | 87.8 | 50.2 | 32.6 | 25.1 | 20.9 | 17.6 | 11.7 | 9.2 | 8.4 |
| 65° | 5166.7 | 2472.9 | 71.9 | 40.1 | 25.9 | 17.6 | 14.2 | 12.5 | 8.4 | 4.2 | 3.3 |
| 67.5° | 4102.9 | 1891.7 | 56.9 | 30.1 | 18.4 | 12.5 | 8.4 | 7.5 | 2.5 | 0.0 | 0.0 |
| 70° | 2774.0 | 1221.8 | 44.3 | 21.7 | 12.5 | 7.5 | 4.2 | 3.3 | 0.8 | 0.0 | 0.0 |
| 72.5° | 1446.8 | 626.4 | 34.3 | 15.9 | 7.5 | 5.0 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| 75° | 511.8 | 213.3 | 25.1 | 10.0 | 5.0 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 154.7 | 79.4 | 15.9 | 7.5 | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 54.4 | 29.3 | 9.2 | 5.0 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.8 | 14.2 | 5.9 | 4.2 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.1 | 9.2 | 5.0 | 4.2 | 2.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.9 | 6.7 | 5.0 | 4.2 | 3.3 | 1.7 | 0.8 | 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)