

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: P452183

Luminaire Tested: **GLAN-SA3A-760-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452183
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-SA3A-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 10023 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

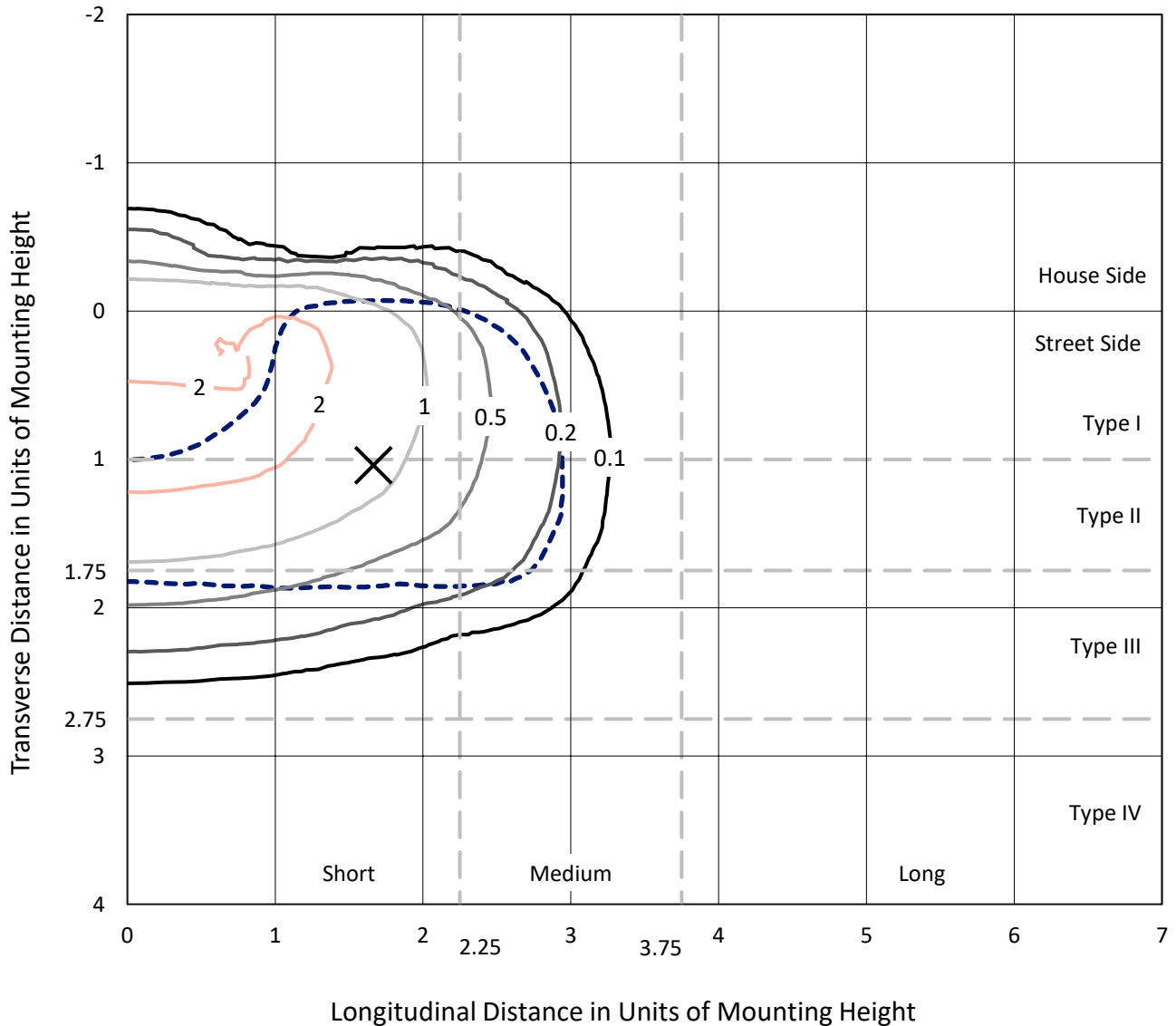
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

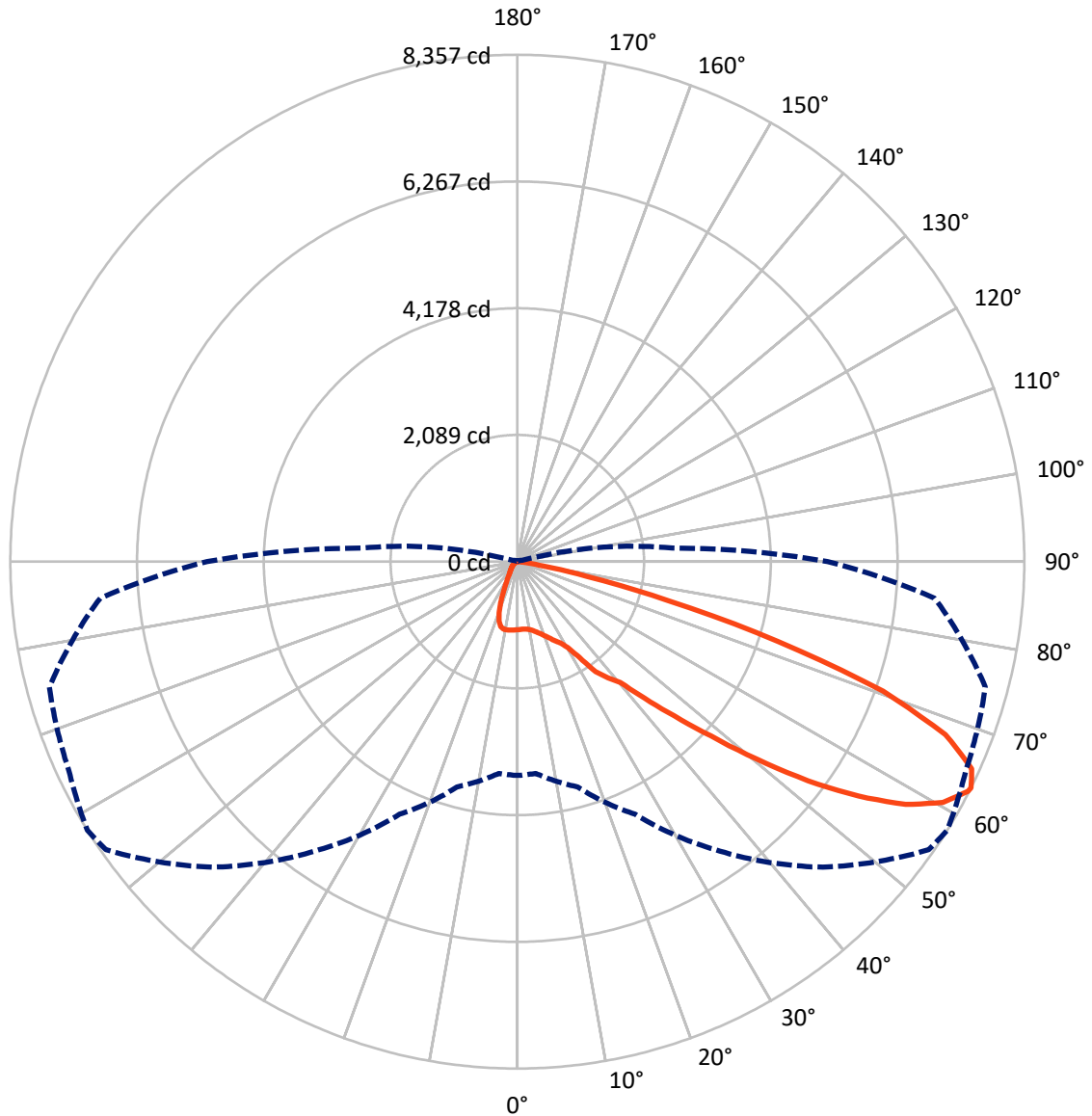
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 1037.8 | 0.0 | 1037.8 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 8985.2 | 0.0 | 8985.2 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 10023.0 | 0.0 | 10023.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 105.0 | 1.0 |
| 10°-20° | 286.1 | 2.9 |
| 20°-30° | 496.5 | 5.0 |
| 30°-40° | 912.5 | 9.1 |
| 40°-50° | 1717.7 | 17.1 |
| 50°-60° | 2938.0 | 29.3 |
| 60°-70° | 2813.1 | 28.1 |
| 70°-80° | 717.4 | 7.2 |
| 80°-90° | 36.7 | 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° | 10023.0 | 100.0 |
| 0°-180° | 10023.0 | 100.0 |



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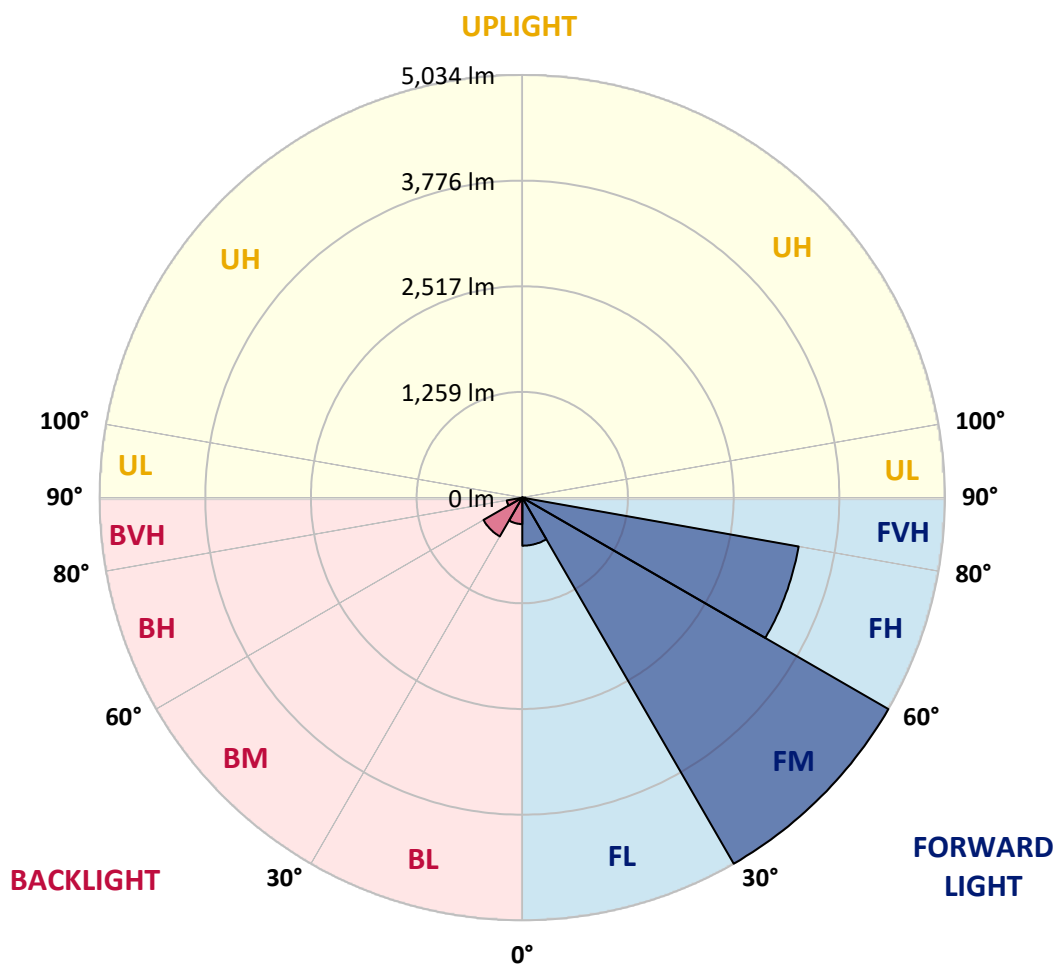
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 573.0 | 5.7 | | | |
| FM | (30°-60°) | 5034.4 | 50.2 | | | |
| FH | (60°-80°) | 3342.6 | 33.3 | | | G2/5000 |
| FVH | (80°-90°) | 35.3 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 314.7 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 533.8 | 5.3 | B1/1000 | | |
| BH | (60°-80°) | 187.9 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.4 | 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° | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 |
| 2.5° | 1094.2 | 1098.0 | 1101.7 | 1103.2 | 1108.5 | 1113.8 | 1117.6 | 1116.8 | 1122.9 | 1125.9 | 1125.9 |
| 5° | 1050.4 | 1050.4 | 1060.2 | 1069.3 | 1084.4 | 1099.5 | 1113.8 | 1116.8 | 1128.2 | 1138.7 | 1142.5 |
| 7.5° | 1013.4 | 1015.7 | 1023.3 | 1039.9 | 1060.2 | 1086.6 | 1115.3 | 1122.1 | 1141.7 | 1165.1 | 1174.9 |
| 10° | 996.1 | 997.6 | 1007.4 | 1024.8 | 1050.4 | 1086.6 | 1126.6 | 1139.5 | 1169.7 | 1206.6 | 1220.2 |
| 12.5° | 992.3 | 994.6 | 1004.4 | 1024.0 | 1053.4 | 1097.2 | 1151.5 | 1165.1 | 1208.9 | 1256.4 | 1276.8 |
| 15° | 999.1 | 1000.6 | 1010.4 | 1031.6 | 1064.0 | 1116.1 | 1184.7 | 1203.6 | 1255.7 | 1310.8 | 1337.2 |
| 17.5° | 1023.3 | 1021.7 | 1028.5 | 1045.9 | 1082.1 | 1139.5 | 1224.7 | 1247.4 | 1308.5 | 1384.0 | 1401.3 |
| 20° | 1125.9 | 1116.1 | 1110.0 | 1094.9 | 1109.3 | 1172.7 | 1273.0 | 1306.2 | 1381.7 | 1458.7 | 1470.7 |
| 22.5° | 1347.0 | 1325.1 | 1282.1 | 1223.2 | 1178.0 | 1217.9 | 1331.1 | 1369.6 | 1467.0 | 1542.4 | 1542.4 |
| 25° | 1628.5 | 1600.5 | 1557.5 | 1429.2 | 1318.3 | 1292.7 | 1396.8 | 1445.1 | 1559.8 | 1636.0 | 1611.1 |
| 27.5° | 1980.9 | 1959.0 | 1875.2 | 1725.8 | 1556.0 | 1423.2 | 1473.0 | 1517.5 | 1642.0 | 1734.1 | 1682.0 |
| 30° | 2267.6 | 2257.1 | 2188.4 | 2054.8 | 1867.7 | 1673.7 | 1614.9 | 1644.3 | 1751.5 | 1857.9 | 1804.3 |
| 32.5° | 2509.9 | 2509.9 | 2439.7 | 2315.2 | 2140.1 | 1968.0 | 1855.6 | 1876.7 | 1979.4 | 2102.4 | 2002.8 |
| 35° | 2776.2 | 2767.2 | 2710.6 | 2592.1 | 2395.9 | 2244.2 | 2198.2 | 2226.9 | 2319.7 | 2411.0 | 2165.7 |
| 37.5° | 3056.2 | 3053.2 | 2994.3 | 2879.6 | 2719.6 | 2528.7 | 2420.8 | 2428.4 | 2475.9 | 2531.7 | 2356.7 |
| 40° | 3360.3 | 3364.8 | 3287.9 | 3216.9 | 3066.0 | 2870.6 | 2663.8 | 2616.3 | 2660.8 | 2818.5 | 2709.1 |
| 42.5° | 3719.5 | 3708.9 | 3675.7 | 3579.1 | 3457.6 | 3340.7 | 3092.4 | 3075.1 | 3114.3 | 3283.3 | 3164.9 |
| 45° | 4136.8 | 4151.9 | 4094.5 | 4041.0 | 3959.5 | 3862.1 | 3654.6 | 3624.4 | 3667.4 | 3930.0 | 3761.8 |
| 47.5° | 4554.9 | 4540.5 | 4577.5 | 4567.7 | 4611.5 | 4539.0 | 4355.6 | 4293.8 | 4397.1 | 4646.2 | 4398.7 |
| 50° | 4873.3 | 4889.2 | 4966.1 | 5078.6 | 5266.5 | 5307.2 | 5131.4 | 5110.3 | 5156.3 | 5316.3 | 4968.4 |
| 52.5° | 5080.1 | 5132.9 | 5253.6 | 5542.7 | 5881.5 | 6144.8 | 6011.3 | 5999.9 | 5981.1 | 6024.1 | 5513.2 |
| 55° | 5215.1 | 5268.7 | 5426.4 | 5852.0 | 6435.4 | 6863.2 | 6870.0 | 6821.7 | 6697.2 | 6666.3 | 6022.6 |
| 57.5° | 5132.1 | 5142.7 | 5367.6 | 5936.6 | 6742.5 | 7375.6 | 7597.5 | 7549.2 | 7319.0 | 7202.1 | 6472.3 |
| 60° | 4613.0 | 4634.8 | 4948.0 | 5616.6 | 6608.9 | 7543.1 | 8079.7 | 8057.8 | 7805.7 | 7673.7 | 6822.5 |
| 62.5° | 3693.1 | 3756.5 | 4078.7 | 4824.3 | 5987.9 | 7260.9 | 8275.1 | 8337.0 | 8140.8 | 7958.9 | 6932.7 |
| 63° | 3524.1 | 3503.7 | 3844.0 | 4593.3 | 5823.4 | 7121.3 | 8278.1 | 8356.6 | 8155.9 | 7986.1 | 6902.5 |
| 65° | 2608.7 | 2669.8 | 2890.9 | 3622.2 | 4846.1 | 6471.6 | 8091.7 | 8230.6 | 8100.0 | 7866.1 | 6568.2 |
| 67.5° | 1464.7 | 1461.7 | 1706.2 | 2370.2 | 3392.0 | 5076.3 | 7316.8 | 7610.3 | 7583.1 | 7058.7 | 5444.6 |
| 70° | 716.9 | 728.2 | 828.6 | 1228.5 | 1967.3 | 3502.2 | 6079.9 | 6396.9 | 6406.7 | 5544.2 | 3764.8 |
| 72.5° | 324.5 | 329.8 | 401.5 | 598.4 | 1011.2 | 1864.7 | 4189.6 | 4492.2 | 4436.4 | 3533.1 | 2079.0 |
| 75° | 171.3 | 182.6 | 221.1 | 301.1 | 487.5 | 769.0 | 2278.9 | 2571.7 | 2454.8 | 1614.1 | 765.2 |
| 77.5° | 126.8 | 130.5 | 150.2 | 191.7 | 261.1 | 299.6 | 983.3 | 1169.7 | 1095.7 | 584.1 | 253.6 |
| 80° | 92.8 | 95.8 | 111.7 | 135.8 | 164.5 | 152.4 | 370.5 | 424.8 | 381.1 | 198.5 | 77.7 |
| 82.5° | 56.6 | 57.4 | 81.5 | 101.1 | 103.4 | 85.3 | 122.2 | 131.3 | 137.3 | 111.7 | 42.3 |
| 85° | 20.4 | 25.7 | 55.1 | 73.2 | 61.1 | 43.0 | 51.3 | 56.6 | 61.9 | 70.9 | 24.9 |
| 87.5° | 2.3 | 3.0 | 26.4 | 35.5 | 17.4 | 15.8 | 18.9 | 21.1 | 22.6 | 26.4 | 12.1 |
| 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° | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 | 1122.1 |
| 2.5° | 1128.9 | 1131.9 | 1129.7 | 1125.9 | 1125.1 | 1122.9 | 1118.3 | 1118.3 | 1118.3 | 1119.8 | 1118.3 |
| 5° | 1145.5 | 1147.8 | 1142.5 | 1134.9 | 1126.6 | 1116.1 | 1104.8 | 1098.0 | 1097.2 | 1095.7 | 1091.9 |
| 7.5° | 1177.2 | 1180.2 | 1168.1 | 1150.0 | 1127.4 | 1101.7 | 1077.6 | 1055.0 | 1044.4 | 1036.1 | 1036.1 |
| 10° | 1223.2 | 1226.3 | 1202.1 | 1169.7 | 1124.4 | 1072.3 | 1015.0 | 962.9 | 922.1 | 903.3 | 898.7 |
| 12.5° | 1278.3 | 1279.8 | 1239.8 | 1183.2 | 1108.5 | 1008.2 | 885.9 | 772.0 | 692.7 | 656.5 | 652.7 |
| 15° | 1338.7 | 1328.1 | 1275.3 | 1188.5 | 1063.3 | 876.1 | 664.8 | 525.2 | 443.0 | 418.8 | 427.9 |
| 17.5° | 1399.8 | 1380.2 | 1302.5 | 1180.2 | 961.4 | 664.8 | 446.7 | 358.4 | 332.8 | 326.0 | 326.0 |
| 20° | 1457.2 | 1430.0 | 1322.1 | 1144.0 | 784.8 | 458.1 | 331.3 | 310.1 | 305.6 | 301.1 | 301.8 |
| 22.5° | 1514.5 | 1473.0 | 1339.4 | 1063.3 | 584.8 | 327.5 | 296.6 | 289.8 | 283.7 | 277.7 | 276.9 |
| 25° | 1570.4 | 1513.0 | 1346.2 | 913.8 | 398.4 | 281.5 | 270.9 | 261.9 | 249.8 | 243.0 | 241.5 |
| 27.5° | 1628.5 | 1561.3 | 1341.7 | 725.2 | 290.5 | 252.0 | 241.5 | 228.6 | 214.3 | 202.2 | 202.2 |
| 30° | 1740.1 | 1653.4 | 1325.9 | 521.4 | 244.5 | 221.9 | 208.3 | 187.9 | 172.1 | 160.0 | 159.2 |
| 32.5° | 1892.6 | 1773.3 | 1271.5 | 366.7 | 217.3 | 195.4 | 175.1 | 152.4 | 135.8 | 126.8 | 126.8 |
| 35° | 2028.4 | 1894.1 | 1169.7 | 270.2 | 195.4 | 169.8 | 144.9 | 123.0 | 110.2 | 104.1 | 101.9 |
| 37.5° | 2235.2 | 2070.7 | 1029.3 | 219.6 | 174.3 | 147.2 | 121.5 | 101.1 | 90.6 | 86.0 | 86.0 |
| 40° | 2545.3 | 2286.5 | 857.2 | 192.4 | 153.9 | 125.3 | 101.1 | 85.3 | 77.0 | 71.7 | 71.7 |
| 42.5° | 2930.2 | 2550.6 | 682.9 | 172.8 | 135.1 | 107.9 | 84.5 | 72.4 | 64.9 | 61.1 | 60.4 |
| 45° | 3414.6 | 2829.1 | 526.0 | 154.7 | 120.0 | 92.1 | 71.7 | 61.1 | 53.6 | 51.3 | 52.1 |
| 47.5° | 3920.2 | 3074.3 | 407.5 | 138.8 | 104.1 | 77.7 | 61.1 | 52.8 | 47.5 | 44.5 | 44.5 |
| 50° | 4351.9 | 3243.3 | 309.4 | 120.7 | 92.1 | 65.7 | 53.6 | 47.5 | 43.0 | 41.5 | 40.7 |
| 52.5° | 4712.6 | 3292.4 | 236.9 | 104.9 | 80.7 | 56.6 | 47.5 | 43.0 | 39.2 | 37.0 | 37.0 |
| 55° | 5019.7 | 3249.4 | 185.6 | 88.3 | 67.9 | 49.1 | 42.3 | 38.5 | 34.0 | 31.7 | 30.9 |
| 57.5° | 5199.3 | 3111.3 | 141.9 | 73.2 | 55.1 | 40.7 | 37.0 | 32.4 | 27.2 | 23.4 | 23.4 |
| 60° | 5289.9 | 2910.6 | 108.7 | 60.4 | 42.3 | 32.4 | 30.2 | 24.1 | 18.9 | 15.8 | 15.1 |
| 62.5° | 5181.2 | 2644.2 | 82.3 | 47.5 | 31.7 | 24.1 | 20.4 | 17.4 | 12.1 | 9.1 | 9.1 |
| 63° | 5114.0 | 2567.2 | 79.2 | 45.3 | 29.4 | 22.6 | 18.9 | 15.8 | 10.6 | 8.3 | 7.5 |
| 65° | 4662.0 | 2231.4 | 64.9 | 36.2 | 23.4 | 15.8 | 12.8 | 11.3 | 7.5 | 3.8 | 3.0 |
| 67.5° | 3702.1 | 1706.9 | 51.3 | 27.2 | 16.6 | 11.3 | 7.5 | 6.8 | 2.3 | 0.0 | 0.0 |
| 70° | 2503.1 | 1102.5 | 40.0 | 19.6 | 11.3 | 6.8 | 3.8 | 3.0 | 0.8 | 0.0 | 0.0 |
| 72.5° | 1305.5 | 565.2 | 30.9 | 14.3 | 6.8 | 4.5 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| 75° | 461.8 | 192.4 | 22.6 | 9.1 | 4.5 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 139.6 | 71.7 | 14.3 | 6.8 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 49.1 | 26.4 | 8.3 | 4.5 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 24.1 | 12.8 | 5.3 | 3.8 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.6 | 8.3 | 4.5 | 3.8 | 2.3 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.8 | 6.0 | 4.5 | 3.8 | 3.0 | 1.5 | 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)