

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: P400510

Luminaire Tested: **ARCH-L-PA3-90-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11345 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

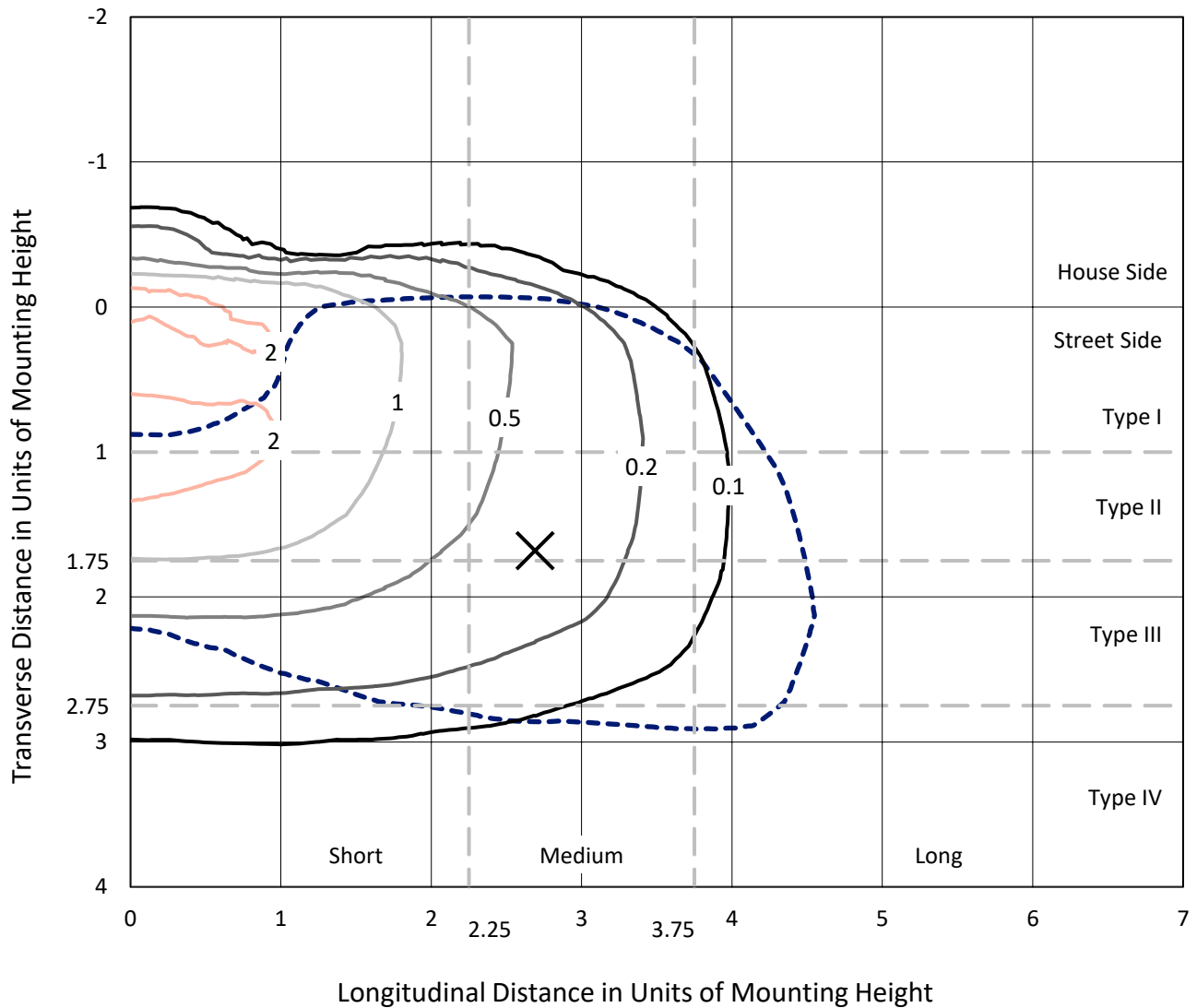
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

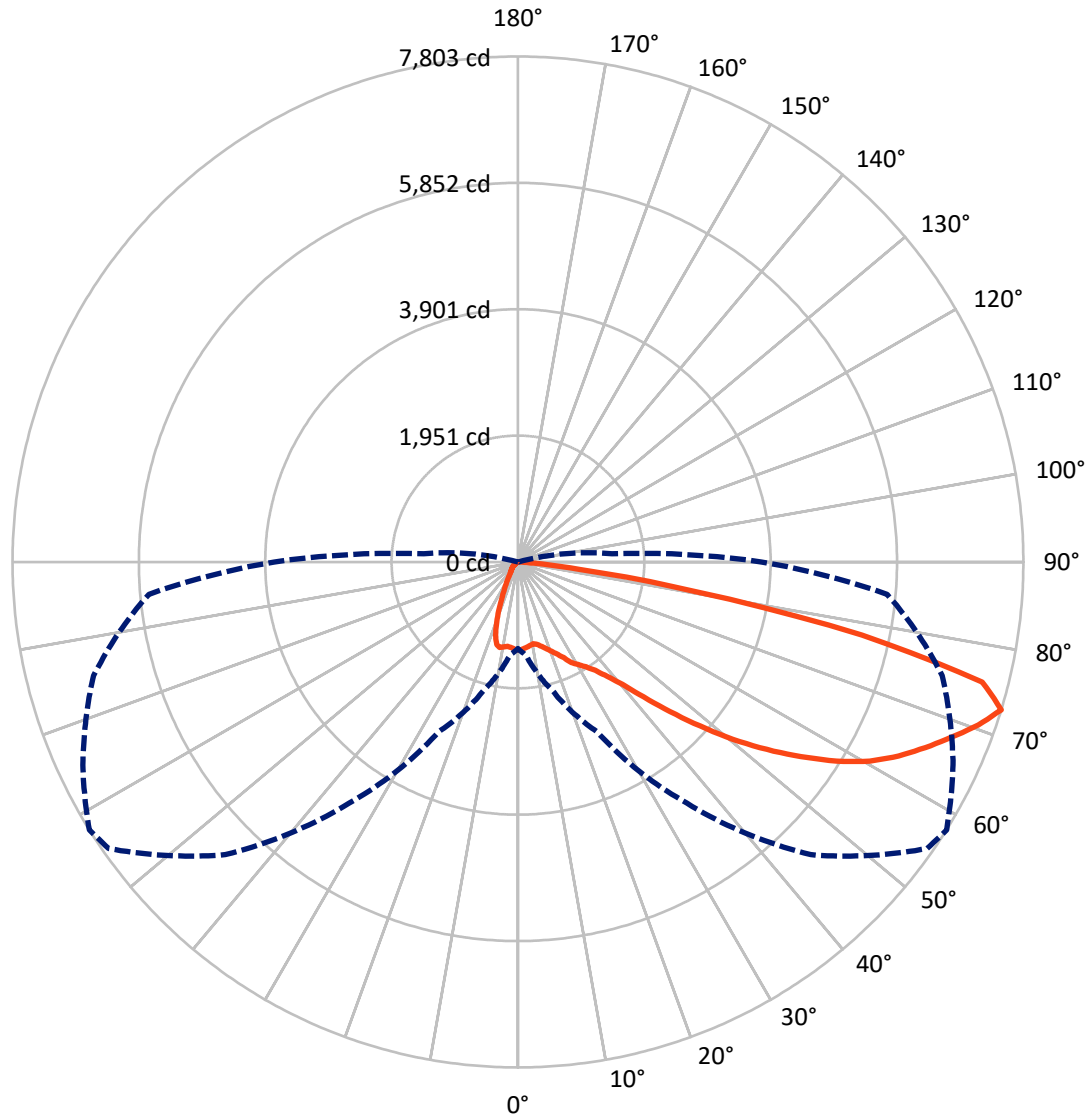
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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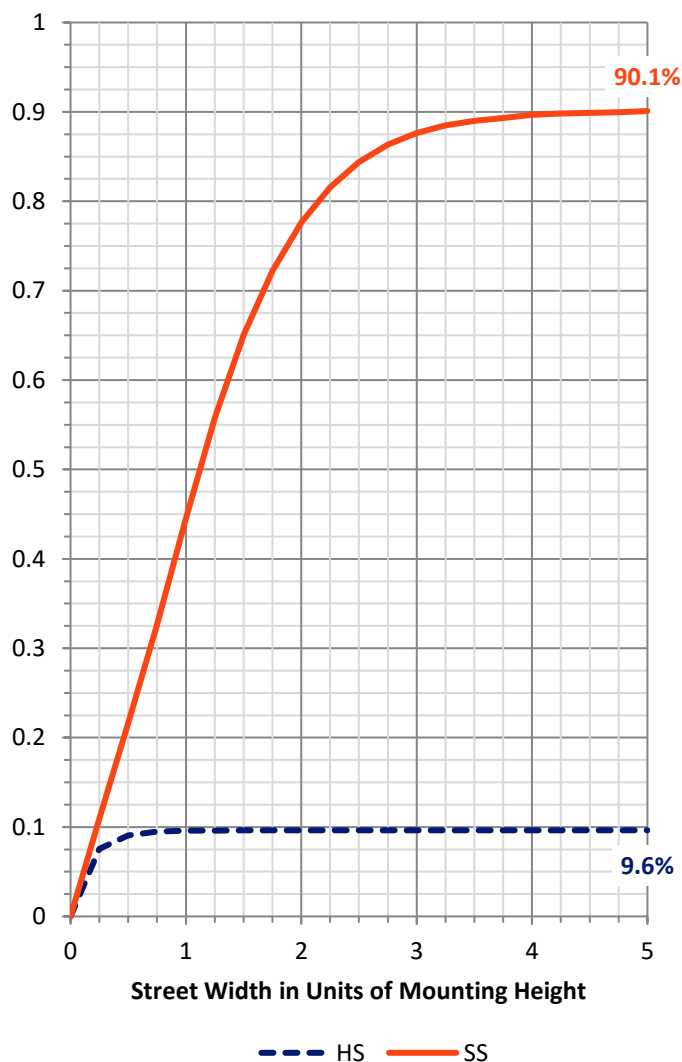
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1103.2 | 0.0 | 1103.2 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 10241.8 | 0.0 | 10241.8 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 11345.0 | 0.0 | 11345.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 124.9 | 1.1 |
| 10°-20° | 325.4 | 2.9 |
| 20°-30° | 511.2 | 4.5 |
| 30°-40° | 881.6 | 7.8 |
| 40°-50° | 1677.3 | 14.8 |
| 50°-60° | 2656.3 | 23.4 |
| 60°-70° | 3099.6 | 27.3 |
| 70°-80° | 1941.3 | 17.1 |
| 80°-90° | 127.4 | 1.1 |
| 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° | 11345.0 | 100.0 |
| 0°-180° | 11345.0 | 100.0 |

Coefficient of Utilization



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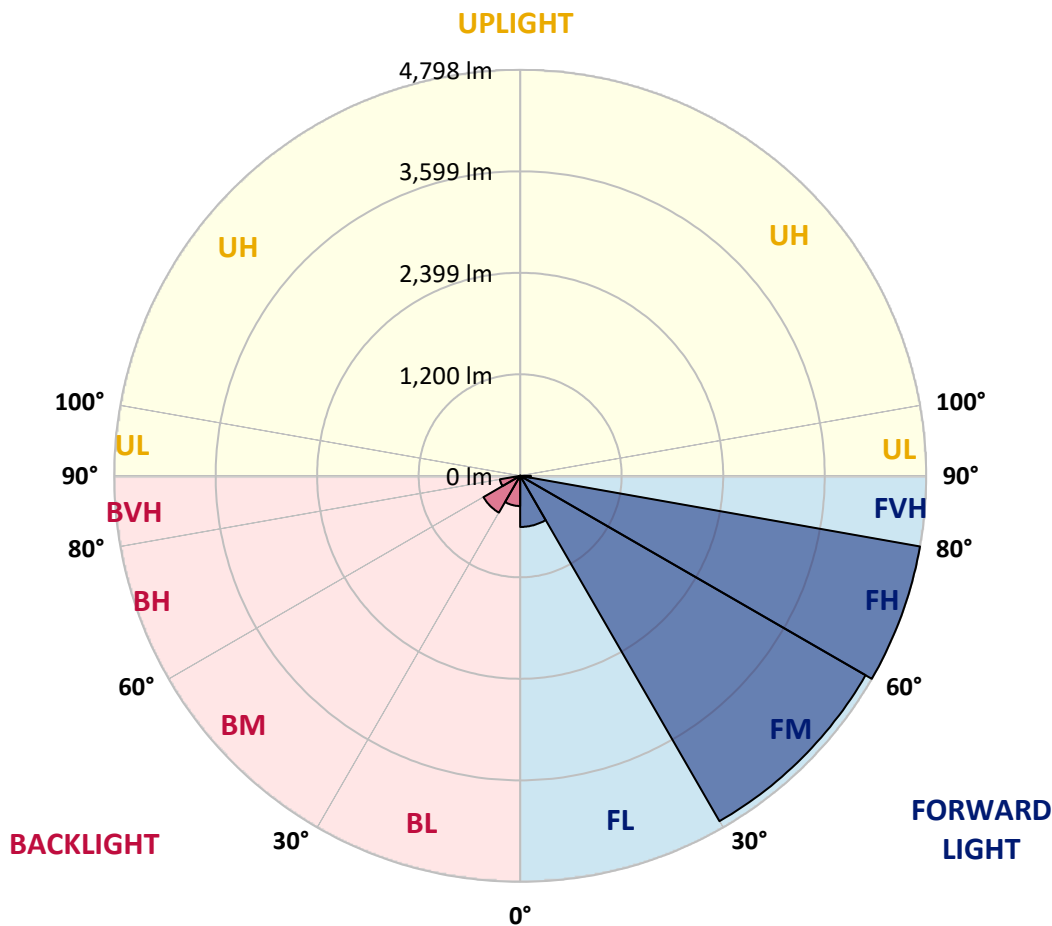
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 604.3 | 5.3 | | | |
| FM (30°-60°) | 4713.2 | 41.5 | | | |
| FH (60°-80°) | 4798.1 | 42.3 | | | G2/5000 |
| FVH (80°-90°) | 126.2 | 1.1 | | | G2/225 |
| BL (0°-30°) | 357.3 | 3.1 | B1/500 | | |
| BM (30°-60°) | 502.0 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 242.8 | 2.1 | B1/500 | | G1/500 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 |
| 2.5° | 1355.2 | 1349.2 | 1347.1 | 1345.1 | 1347.1 | 1349.2 | 1343.1 | 1349.2 | 1345.1 | 1347.1 | 1351.2 |
| 5° | 1306.6 | 1300.5 | 1298.4 | 1300.5 | 1306.6 | 1316.7 | 1320.8 | 1326.8 | 1326.8 | 1332.9 | 1335.0 |
| 7.5° | 1251.8 | 1247.7 | 1245.7 | 1249.7 | 1261.9 | 1284.2 | 1296.4 | 1304.5 | 1312.6 | 1324.8 | 1337.0 |
| 10° | 1221.3 | 1219.3 | 1217.3 | 1223.4 | 1235.5 | 1255.8 | 1272.1 | 1284.2 | 1314.7 | 1349.2 | 1371.5 |
| 12.5° | 1201.1 | 1201.1 | 1205.1 | 1217.3 | 1233.5 | 1249.7 | 1288.3 | 1304.5 | 1351.2 | 1403.9 | 1434.4 |
| 15° | 1184.8 | 1184.8 | 1190.9 | 1213.2 | 1235.5 | 1274.1 | 1330.9 | 1349.2 | 1403.9 | 1468.9 | 1509.4 |
| 17.5° | 1172.7 | 1176.7 | 1180.8 | 1203.1 | 1245.7 | 1310.6 | 1377.6 | 1403.9 | 1470.9 | 1541.9 | 1586.5 |
| 20° | 1174.7 | 1178.7 | 1180.8 | 1203.1 | 1263.9 | 1353.2 | 1438.4 | 1468.9 | 1546.0 | 1621.0 | 1665.7 |
| 22.5° | 1186.9 | 1192.9 | 1195.0 | 1225.4 | 1296.4 | 1397.8 | 1507.4 | 1541.9 | 1625.1 | 1704.2 | 1738.7 |
| 25° | 1237.6 | 1241.6 | 1229.5 | 1255.8 | 1343.1 | 1466.8 | 1596.7 | 1633.2 | 1716.4 | 1789.4 | 1817.8 |
| 27.5° | 1410.0 | 1414.1 | 1347.1 | 1316.7 | 1379.6 | 1523.6 | 1706.2 | 1756.9 | 1860.4 | 1909.1 | 1913.2 |
| 30° | 1783.3 | 1787.4 | 1655.5 | 1511.5 | 1466.8 | 1572.3 | 1767.1 | 1838.1 | 1972.0 | 2026.8 | 2002.4 |
| 32.5° | 2264.2 | 2260.1 | 2079.5 | 1866.5 | 1673.8 | 1657.5 | 1854.3 | 1929.4 | 2075.5 | 2128.2 | 2110.0 |
| 35° | 2747.0 | 2753.1 | 2598.9 | 2278.4 | 2002.4 | 1817.8 | 1965.9 | 2053.2 | 2229.7 | 2304.7 | 2272.3 |
| 37.5° | 3077.7 | 3118.3 | 3051.3 | 2704.4 | 2406.2 | 2114.0 | 2146.5 | 2239.8 | 2460.9 | 2562.4 | 2493.4 |
| 40° | 3544.3 | 3534.2 | 3371.9 | 3116.3 | 2852.5 | 2552.2 | 2438.6 | 2483.3 | 2736.9 | 2872.8 | 2765.3 |
| 42.5° | 4171.2 | 4150.9 | 3875.0 | 3625.5 | 3331.3 | 3085.8 | 2854.5 | 2846.4 | 3053.4 | 3211.6 | 3055.4 |
| 45° | 4739.3 | 4708.9 | 4520.2 | 4278.8 | 3956.2 | 3674.2 | 3361.7 | 3290.7 | 3434.8 | 3568.7 | 3386.1 |
| 47.5° | 5191.7 | 5141.0 | 5007.1 | 4879.3 | 4800.2 | 4361.9 | 3893.3 | 3785.8 | 3858.8 | 3958.2 | 3700.5 |
| 50° | 5727.3 | 5587.3 | 5392.6 | 5315.5 | 5479.8 | 5141.0 | 4404.5 | 4301.1 | 4297.0 | 4353.8 | 4025.2 |
| 52.5° | 5970.8 | 5717.2 | 5607.6 | 5672.6 | 5962.7 | 5865.3 | 4956.4 | 4808.3 | 4749.4 | 4755.5 | 4327.4 |
| 55° | 5676.6 | 5648.2 | 5707.0 | 5909.9 | 6289.3 | 6232.5 | 5485.9 | 5303.3 | 5216.1 | 5106.5 | 4617.6 |
| 57.5° | 5341.9 | 5429.1 | 5662.4 | 6049.9 | 6703.2 | 6615.9 | 6007.3 | 5800.4 | 5640.1 | 5388.5 | 4940.1 |
| 60° | 5033.5 | 5122.7 | 5508.2 | 6082.4 | 6930.4 | 6985.2 | 6441.5 | 6244.7 | 6007.3 | 5676.6 | 5295.2 |
| 62.5° | 4564.8 | 4633.8 | 5175.5 | 6035.7 | 6831.0 | 7200.2 | 6743.8 | 6595.7 | 6374.5 | 5950.5 | 5703.0 |
| 65° | 4037.3 | 4082.0 | 4617.6 | 5662.4 | 6636.2 | 7175.9 | 6993.3 | 6910.1 | 6695.1 | 6236.6 | 6106.7 |
| 67.5° | 3459.1 | 3511.9 | 3958.2 | 4990.9 | 6254.8 | 7062.3 | 7228.6 | 7220.5 | 6975.0 | 6553.1 | 6398.9 |
| 70° | 2793.7 | 2797.7 | 3167.0 | 4138.8 | 5589.4 | 6835.1 | 7520.8 | 7539.1 | 7242.8 | 6790.4 | 6411.0 |
| 72.5° | 1337.0 | 1446.5 | 2053.2 | 2889.0 | 4542.5 | 6388.7 | 7711.5 | 7802.8 | 7411.2 | 6782.3 | 5719.2 |
| 75° | 306.4 | 316.5 | 598.5 | 1373.5 | 2663.8 | 4903.6 | 7234.7 | 7405.2 | 7001.4 | 5865.3 | 4029.2 |
| 77.5° | 111.6 | 117.7 | 168.4 | 401.7 | 1024.5 | 2534.0 | 5177.5 | 5427.1 | 5175.5 | 3791.8 | 1905.1 |
| 80° | 75.1 | 73.0 | 87.2 | 178.5 | 470.7 | 718.2 | 2647.6 | 2795.7 | 2552.2 | 1294.4 | 456.5 |
| 82.5° | 38.5 | 40.6 | 60.9 | 99.4 | 316.5 | 249.5 | 884.6 | 961.7 | 791.2 | 259.7 | 85.2 |
| 85° | 18.3 | 18.3 | 34.5 | 62.9 | 133.9 | 87.2 | 196.8 | 237.4 | 213.0 | 113.6 | 28.4 |
| 87.5° | 18.3 | 18.3 | 32.5 | 40.6 | 69.0 | 36.5 | 48.7 | 60.9 | 56.8 | 60.9 | 10.1 |
| 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° | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 | 1361.3 |
| 2.5° | 1351.2 | 1349.2 | 1347.1 | 1351.2 | 1349.2 | 1353.2 | 1353.2 | 1357.3 | 1357.3 | 1353.2 | 1351.2 |
| 5° | 1332.9 | 1328.9 | 1324.8 | 1324.8 | 1322.8 | 1326.8 | 1339.0 | 1349.2 | 1351.2 | 1345.1 | 1343.1 |
| 7.5° | 1335.0 | 1335.0 | 1330.9 | 1322.8 | 1308.6 | 1308.6 | 1308.6 | 1320.8 | 1326.8 | 1322.8 | 1320.8 |
| 10° | 1371.5 | 1373.5 | 1363.4 | 1345.1 | 1320.8 | 1298.4 | 1255.8 | 1192.9 | 1134.1 | 1117.9 | 1111.8 |
| 12.5° | 1434.4 | 1436.4 | 1416.1 | 1383.6 | 1332.9 | 1201.1 | 1038.8 | 888.6 | 773.0 | 740.5 | 734.4 |
| 15° | 1509.4 | 1511.5 | 1474.9 | 1422.2 | 1268.0 | 961.7 | 720.2 | 549.8 | 448.4 | 424.0 | 422.0 |
| 17.5° | 1586.5 | 1582.5 | 1527.7 | 1426.3 | 1075.3 | 681.7 | 438.2 | 351.0 | 324.6 | 318.5 | 320.6 |
| 20° | 1661.6 | 1649.4 | 1574.4 | 1351.2 | 827.8 | 446.3 | 320.6 | 300.3 | 294.2 | 290.1 | 290.1 |
| 22.5° | 1730.6 | 1706.2 | 1612.9 | 1203.1 | 580.2 | 320.6 | 286.1 | 282.0 | 273.9 | 267.8 | 265.8 |
| 25° | 1799.6 | 1765.1 | 1637.2 | 1010.3 | 389.5 | 280.0 | 269.8 | 261.7 | 251.6 | 243.5 | 241.4 |
| 27.5° | 1882.7 | 1834.0 | 1625.1 | 766.9 | 292.1 | 259.7 | 251.6 | 239.4 | 225.2 | 213.0 | 209.0 |
| 30° | 1961.9 | 1907.1 | 1556.1 | 529.5 | 249.5 | 239.4 | 227.2 | 209.0 | 190.7 | 176.5 | 172.4 |
| 32.5° | 2061.3 | 1998.4 | 1432.3 | 346.9 | 217.1 | 209.0 | 196.8 | 174.5 | 150.1 | 133.9 | 129.8 |
| 35° | 2203.3 | 2132.3 | 1274.1 | 243.5 | 190.7 | 176.5 | 160.3 | 135.9 | 109.6 | 97.4 | 95.4 |
| 37.5° | 2402.1 | 2306.8 | 1075.3 | 196.8 | 168.4 | 148.1 | 123.8 | 99.4 | 81.2 | 71.0 | 69.0 |
| 40° | 2645.6 | 2499.5 | 854.1 | 174.5 | 150.1 | 123.8 | 93.3 | 71.0 | 58.8 | 50.7 | 50.7 |
| 42.5° | 2909.3 | 2680.1 | 628.9 | 160.3 | 131.9 | 101.4 | 69.0 | 50.7 | 42.6 | 38.5 | 36.5 |
| 45° | 3181.2 | 2840.3 | 424.0 | 148.1 | 115.6 | 77.1 | 48.7 | 34.5 | 28.4 | 28.4 | 26.4 |
| 47.5° | 3463.2 | 2947.9 | 273.9 | 133.9 | 97.4 | 56.8 | 32.5 | 24.3 | 20.3 | 20.3 | 20.3 |
| 50° | 3743.2 | 3004.7 | 194.8 | 121.7 | 79.1 | 38.5 | 24.3 | 18.3 | 16.2 | 16.2 | 16.2 |
| 52.5° | 3946.0 | 2968.1 | 156.2 | 105.5 | 60.9 | 28.4 | 18.3 | 14.2 | 12.2 | 12.2 | 12.2 |
| 55° | 4122.5 | 2905.3 | 135.9 | 91.3 | 44.6 | 20.3 | 14.2 | 12.2 | 10.1 | 10.1 | 10.1 |
| 57.5° | 4303.1 | 2824.1 | 121.7 | 77.1 | 32.5 | 14.2 | 10.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 60° | 4467.4 | 2686.1 | 105.5 | 60.9 | 22.3 | 10.1 | 8.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 62.5° | 4627.7 | 2568.5 | 91.3 | 46.7 | 16.2 | 8.1 | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 |
| 65° | 4719.0 | 2410.2 | 73.0 | 30.4 | 10.1 | 6.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4690.6 | 2221.5 | 50.7 | 18.3 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4493.8 | 1967.9 | 30.4 | 10.1 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3763.4 | 1456.7 | 18.3 | 8.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2513.7 | 669.5 | 10.1 | 6.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1150.3 | 200.9 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 231.3 | 52.7 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 48.7 | 10.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 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)