

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: P300970

Luminaire Tested: **GAA-AF-02-LED-U-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-02-LED-U-SL4-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7596.6 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

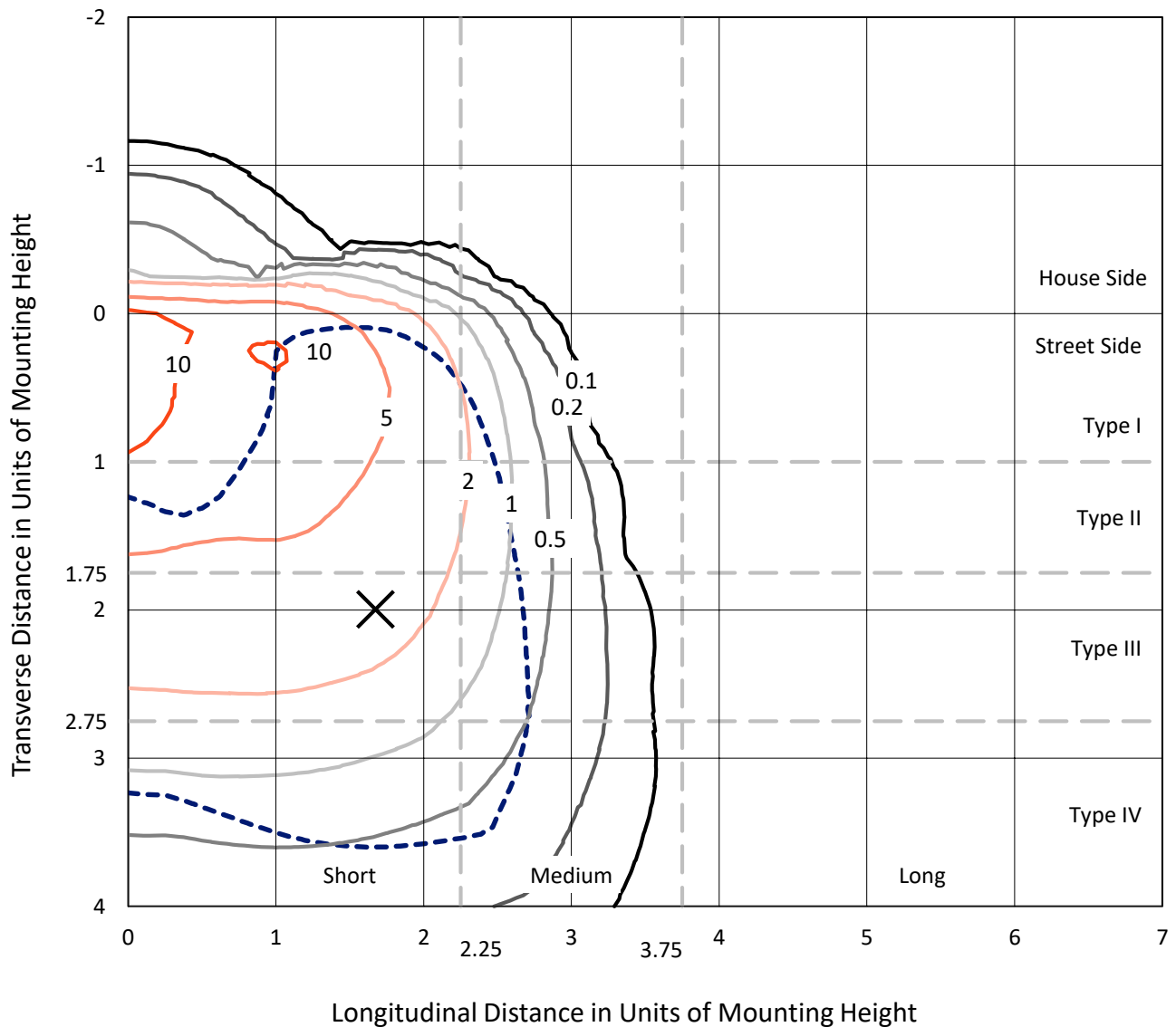
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

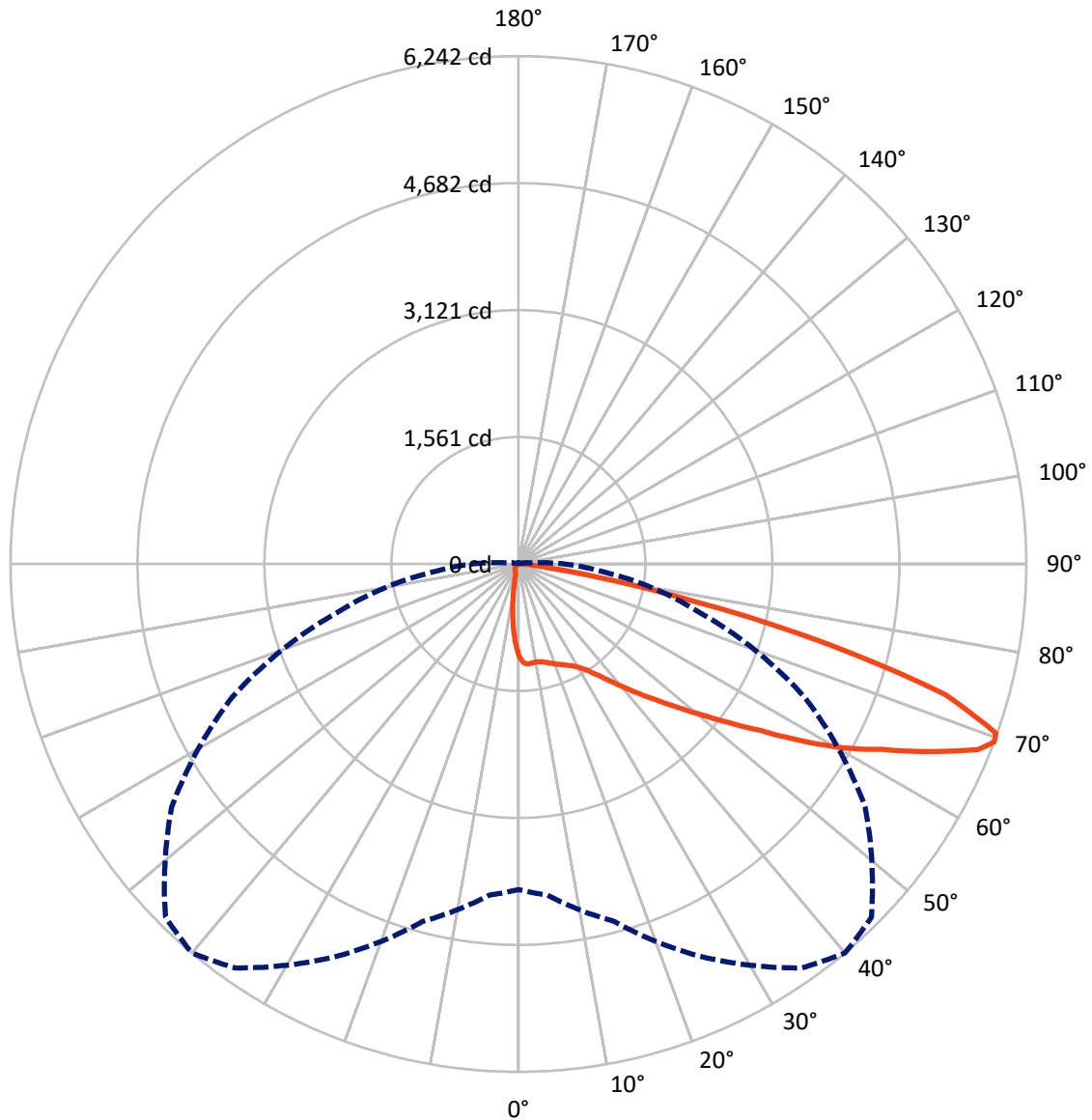
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 444.4 | 0.0 | 444.4 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 7152.2 | 0.0 | 7152.2 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 7596.6 | 0.0 | 7596.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.0 | 1.2 |
| 10°-20° | 226.3 | 3.0 |
| 20°-30° | 381.2 | 5.0 |
| 30°-40° | 624.0 | 8.2 |
| 40°-50° | 1080.4 | 14.2 |
| 50°-60° | 1701.8 | 22.4 |
| 60°-70° | 2222.4 | 29.3 |
| 70°-80° | 1144.7 | 15.1 |
| 80°-90° | 123.8 | 1.6 |
| 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° | 7596.6 | 100.0 |
| 0°-180° | 7596.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P300970

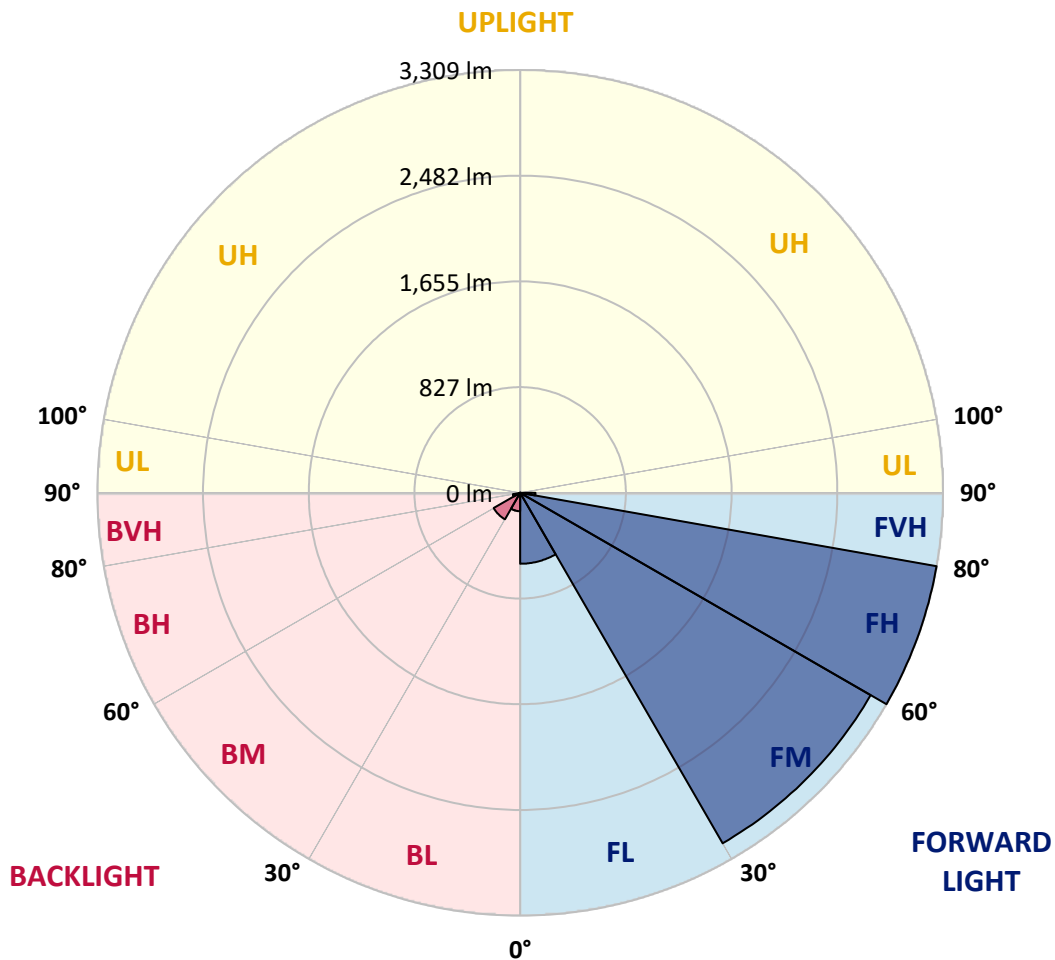
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 555.5 | 7.3 | | | |
| FM | (30°-60°) | 3167.3 | 41.7 | | | |
| FH | (60°-80°) | 3309.4 | 43.6 | | | G2/5000 |
| FVH | (80°-90°) | 119.9 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 144.0 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 238.9 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 57.7 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.9 | 0.1 | | | 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° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 |
| 2.5° | 1246.2 | 1239.4 | 1235.4 | 1229.9 | 1223.1 | 1217.3 | 1215.0 | 1198.3 | 1182.5 | 1160.7 | 1135.9 |
| 5° | 1269.3 | 1267.0 | 1259.8 | 1252.5 | 1244.4 | 1235.4 | 1230.4 | 1210.5 | 1187.9 | 1156.2 | 1112.8 |
| 7.5° | 1271.5 | 1268.8 | 1259.8 | 1249.8 | 1238.5 | 1227.7 | 1219.1 | 1199.2 | 1178.4 | 1146.3 | 1093.4 |
| 10° | 1267.9 | 1264.7 | 1258.0 | 1247.1 | 1233.1 | 1222.7 | 1214.1 | 1195.1 | 1177.5 | 1148.5 | 1089.8 |
| 12.5° | 1263.8 | 1260.7 | 1257.5 | 1252.1 | 1239.9 | 1232.6 | 1225.4 | 1207.3 | 1191.5 | 1167.1 | 1102.9 |
| 15° | 1267.9 | 1266.1 | 1269.7 | 1267.5 | 1260.7 | 1254.3 | 1247.1 | 1230.8 | 1216.4 | 1196.0 | 1126.8 |
| 17.5° | 1285.1 | 1285.1 | 1296.4 | 1297.8 | 1291.4 | 1282.4 | 1272.0 | 1255.7 | 1243.5 | 1226.3 | 1155.3 |
| 20° | 1325.3 | 1324.0 | 1338.5 | 1341.2 | 1325.8 | 1311.8 | 1296.4 | 1276.5 | 1267.0 | 1256.2 | 1183.4 |
| 22.5° | 1394.5 | 1388.2 | 1396.8 | 1394.1 | 1363.8 | 1342.1 | 1323.1 | 1298.7 | 1293.7 | 1288.7 | 1214.6 |
| 25° | 1484.5 | 1480.9 | 1486.8 | 1460.1 | 1406.7 | 1377.3 | 1354.7 | 1327.1 | 1327.1 | 1332.1 | 1249.8 |
| 27.5° | 1615.2 | 1601.6 | 1581.7 | 1534.7 | 1454.7 | 1417.1 | 1392.7 | 1363.3 | 1371.0 | 1389.5 | 1296.4 |
| 30° | 1749.0 | 1734.1 | 1688.4 | 1616.1 | 1513.0 | 1473.7 | 1445.2 | 1414.4 | 1432.5 | 1466.4 | 1358.8 |
| 32.5° | 1881.1 | 1864.3 | 1799.7 | 1708.3 | 1596.6 | 1557.3 | 1529.7 | 1495.8 | 1526.1 | 1583.1 | 1450.1 |
| 35° | 2009.0 | 1994.1 | 1919.5 | 1811.9 | 1707.9 | 1675.3 | 1650.0 | 1620.6 | 1659.5 | 1739.1 | 1579.0 |
| 37.5° | 2152.8 | 2136.5 | 2045.7 | 1929.0 | 1843.1 | 1819.6 | 1801.0 | 1771.6 | 1839.5 | 1956.1 | 1758.5 |
| 40° | 2329.6 | 2302.0 | 2179.5 | 2063.3 | 1999.5 | 1988.2 | 1975.6 | 1971.5 | 2076.9 | 2238.3 | 1997.7 |
| 42.5° | 2532.2 | 2487.0 | 2319.7 | 2204.8 | 2171.4 | 2179.5 | 2176.3 | 2194.4 | 2373.9 | 2589.2 | 2288.9 |
| 45° | 2734.8 | 2676.5 | 2475.7 | 2355.9 | 2360.4 | 2388.9 | 2406.5 | 2478.8 | 2746.1 | 2991.6 | 2602.3 |
| 47.5° | 2906.6 | 2849.2 | 2625.4 | 2519.1 | 2573.4 | 2629.4 | 2677.4 | 2814.4 | 3128.6 | 3387.7 | 2846.0 |
| 50° | 3053.6 | 2999.3 | 2784.1 | 2698.6 | 2820.7 | 2911.1 | 2988.9 | 3191.9 | 3540.1 | 3689.3 | 3016.9 |
| 52.5° | 3173.9 | 3137.7 | 2948.7 | 2904.4 | 3103.3 | 3235.8 | 3349.7 | 3593.0 | 3904.6 | 3934.4 | 3149.9 |
| 55° | 3291.0 | 3265.2 | 3125.5 | 3149.0 | 3435.2 | 3615.6 | 3759.9 | 4018.5 | 4218.4 | 4138.8 | 3277.4 |
| 57.5° | 3425.7 | 3402.2 | 3327.1 | 3459.2 | 3871.6 | 4098.6 | 4255.9 | 4395.6 | 4494.7 | 4347.7 | 3397.7 |
| 60° | 3563.2 | 3549.6 | 3551.4 | 3803.7 | 4372.6 | 4590.5 | 4677.3 | 4713.5 | 4766.0 | 4544.4 | 3404.5 |
| 62.5° | 3694.3 | 3720.1 | 3807.8 | 4187.2 | 4852.3 | 5019.6 | 5063.5 | 5099.2 | 5037.7 | 4575.6 | 3145.4 |
| 65° | 3916.3 | 3958.4 | 4167.7 | 4700.4 | 5380.0 | 5559.1 | 5604.3 | 5481.8 | 5080.7 | 4172.3 | 2558.4 |
| 67.5° | 4024.9 | 4101.7 | 4475.2 | 5178.8 | 5891.9 | 6090.9 | 6074.1 | 5506.6 | 4559.3 | 3181.5 | 1641.9 |
| 69° | 4002.2 | 4084.1 | 4546.2 | 5325.3 | 6061.9 | 6242.3 | 6136.1 | 5202.3 | 3884.2 | 2304.8 | 1007.9 |
| 70° | 3912.7 | 3995.5 | 4509.6 | 5319.9 | 6083.6 | 6226.5 | 6021.2 | 4826.6 | 3284.2 | 1685.3 | 630.3 |
| 72.5° | 3267.5 | 3338.9 | 4003.6 | 4808.5 | 5604.3 | 5488.1 | 5037.3 | 3343.9 | 1600.3 | 459.0 | 142.0 |
| 75° | 2011.3 | 2051.1 | 2872.7 | 3622.4 | 4232.9 | 3934.4 | 3356.1 | 1663.6 | 477.0 | 129.8 | 78.7 |
| 77.5° | 1062.6 | 1080.7 | 1572.7 | 2135.2 | 2683.2 | 2220.2 | 1720.1 | 648.9 | 219.8 | 81.4 | 57.0 |
| 80° | 628.1 | 641.6 | 846.9 | 976.3 | 1161.2 | 969.9 | 687.8 | 398.4 | 157.4 | 51.1 | 50.6 |
| 82.5° | 359.5 | 368.1 | 614.1 | 542.6 | 457.6 | 390.7 | 342.3 | 377.6 | 94.5 | 34.4 | 52.5 |
| 85° | 132.0 | 133.8 | 345.5 | 412.8 | 272.2 | 161.9 | 170.0 | 312.9 | 25.3 | 21.7 | 41.1 |
| 87.5° | 61.5 | 60.1 | 177.7 | 252.8 | 159.2 | 102.6 | 132.5 | 68.7 | 9.9 | 14.0 | 11.3 |
| 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° | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 | 1135.0 |
| 2.5° | 1121.4 | 1104.7 | 1074.4 | 1043.2 | 1011.5 | 987.1 | 963.1 | 944.2 | 937.8 | 926.1 | 927.0 |
| 5° | 1087.0 | 1056.3 | 993.0 | 928.8 | 861.9 | 806.7 | 754.7 | 712.6 | 692.3 | 671.5 | 671.5 |
| 7.5° | 1057.2 | 1012.4 | 913.4 | 808.9 | 700.9 | 610.0 | 528.1 | 466.6 | 432.7 | 405.6 | 405.2 |
| 10° | 1045.9 | 985.3 | 846.9 | 697.3 | 546.7 | 422.8 | 325.6 | 263.2 | 231.1 | 210.3 | 209.4 |
| 12.5° | 1050.9 | 975.8 | 795.8 | 594.2 | 405.2 | 271.8 | 188.6 | 148.3 | 134.7 | 128.4 | 128.4 |
| 15° | 1065.3 | 973.1 | 744.7 | 493.3 | 286.2 | 170.0 | 125.3 | 114.4 | 113.5 | 113.5 | 113.5 |
| 17.5° | 1083.0 | 974.0 | 692.3 | 395.2 | 194.9 | 121.6 | 108.1 | 106.7 | 107.6 | 107.6 | 107.6 |
| 20° | 1101.1 | 974.4 | 635.8 | 304.3 | 137.5 | 105.8 | 101.7 | 101.3 | 102.2 | 102.2 | 102.6 |
| 22.5° | 1123.2 | 976.7 | 579.2 | 227.4 | 113.5 | 99.9 | 96.8 | 96.8 | 97.2 | 97.2 | 96.8 |
| 25° | 1148.5 | 981.2 | 520.5 | 168.7 | 103.5 | 95.9 | 93.1 | 92.7 | 93.1 | 92.7 | 92.2 |
| 27.5° | 1180.2 | 987.6 | 454.9 | 132.0 | 99.0 | 91.8 | 89.5 | 89.5 | 89.1 | 88.6 | 88.2 |
| 30° | 1220.0 | 994.8 | 381.2 | 112.1 | 94.5 | 88.2 | 85.9 | 85.5 | 85.0 | 84.1 | 84.1 |
| 32.5° | 1280.6 | 1010.6 | 308.4 | 101.7 | 89.5 | 83.2 | 81.4 | 81.4 | 80.5 | 79.6 | 79.1 |
| 35° | 1373.7 | 1041.8 | 243.3 | 95.4 | 84.1 | 77.8 | 75.5 | 75.5 | 74.6 | 74.2 | 73.7 |
| 37.5° | 1502.6 | 1089.3 | 189.0 | 89.5 | 78.7 | 71.9 | 69.6 | 69.2 | 68.3 | 67.4 | 66.9 |
| 40° | 1674.0 | 1148.1 | 148.8 | 84.1 | 73.3 | 66.0 | 64.2 | 63.3 | 61.5 | 60.1 | 60.1 |
| 42.5° | 1889.2 | 1215.0 | 120.7 | 78.2 | 66.9 | 60.6 | 59.2 | 57.9 | 54.7 | 53.4 | 52.9 |
| 45° | 2114.4 | 1275.1 | 102.2 | 71.4 | 60.6 | 55.2 | 54.3 | 52.0 | 47.9 | 46.6 | 46.6 |
| 47.5° | 2276.7 | 1289.2 | 90.0 | 65.1 | 54.7 | 49.3 | 48.8 | 44.8 | 41.1 | 40.2 | 39.8 |
| 50° | 2378.0 | 1261.6 | 80.0 | 58.8 | 49.3 | 43.9 | 42.5 | 37.5 | 35.3 | 34.4 | 33.9 |
| 52.5° | 2446.3 | 1212.3 | 71.9 | 53.4 | 44.3 | 38.9 | 35.7 | 32.1 | 30.3 | 29.4 | 29.4 |
| 55° | 2501.0 | 1142.7 | 63.8 | 48.4 | 40.2 | 34.8 | 30.3 | 27.6 | 25.8 | 24.9 | 24.9 |
| 57.5° | 2516.4 | 1048.2 | 55.6 | 44.3 | 36.2 | 30.7 | 25.8 | 24.0 | 21.7 | 21.3 | 21.3 |
| 60° | 2404.7 | 877.7 | 49.3 | 39.3 | 32.6 | 26.7 | 22.6 | 20.3 | 18.1 | 17.6 | 17.2 |
| 62.5° | 2110.3 | 679.2 | 43.4 | 34.8 | 28.5 | 23.1 | 19.4 | 16.7 | 14.9 | 14.9 | 14.9 |
| 65° | 1609.8 | 455.3 | 38.0 | 30.3 | 24.9 | 19.4 | 16.7 | 13.6 | 12.7 | 12.7 | 13.1 |
| 67.5° | 963.6 | 247.8 | 32.6 | 25.8 | 21.3 | 16.3 | 14.0 | 11.8 | 11.3 | 11.8 | 11.8 |
| 69° | 564.8 | 145.6 | 29.4 | 23.1 | 18.5 | 14.5 | 12.2 | 10.4 | 11.3 | 11.8 | 11.8 |
| 70° | 348.6 | 98.1 | 27.1 | 20.8 | 16.7 | 13.1 | 11.3 | 9.9 | 10.9 | 11.3 | 11.3 |
| 72.5° | 97.2 | 50.6 | 21.7 | 16.3 | 13.6 | 10.9 | 9.0 | 9.0 | 10.4 | 10.9 | 10.9 |
| 75° | 63.3 | 37.5 | 16.7 | 12.2 | 10.4 | 8.6 | 7.7 | 8.6 | 9.9 | 10.4 | 10.4 |
| 77.5° | 52.5 | 30.7 | 13.6 | 9.9 | 8.6 | 8.1 | 7.2 | 7.7 | 9.0 | 9.5 | 9.5 |
| 80° | 47.9 | 21.7 | 10.9 | 9.0 | 7.7 | 7.2 | 6.8 | 6.3 | 8.1 | 8.6 | 8.6 |
| 82.5° | 45.7 | 17.2 | 9.5 | 8.1 | 7.2 | 6.3 | 5.9 | 6.3 | 7.2 | 7.7 | 8.1 |
| 85° | 28.5 | 11.3 | 8.6 | 7.7 | 6.3 | 5.9 | 5.9 | 5.9 | 6.8 | 7.2 | 7.2 |
| 87.5° | 10.4 | 9.0 | 7.7 | 6.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.9 | 6.8 | 6.8 |
| 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)