

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: P191379

Luminaire Tested: **GAN-AF-01-LED-U-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6863 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

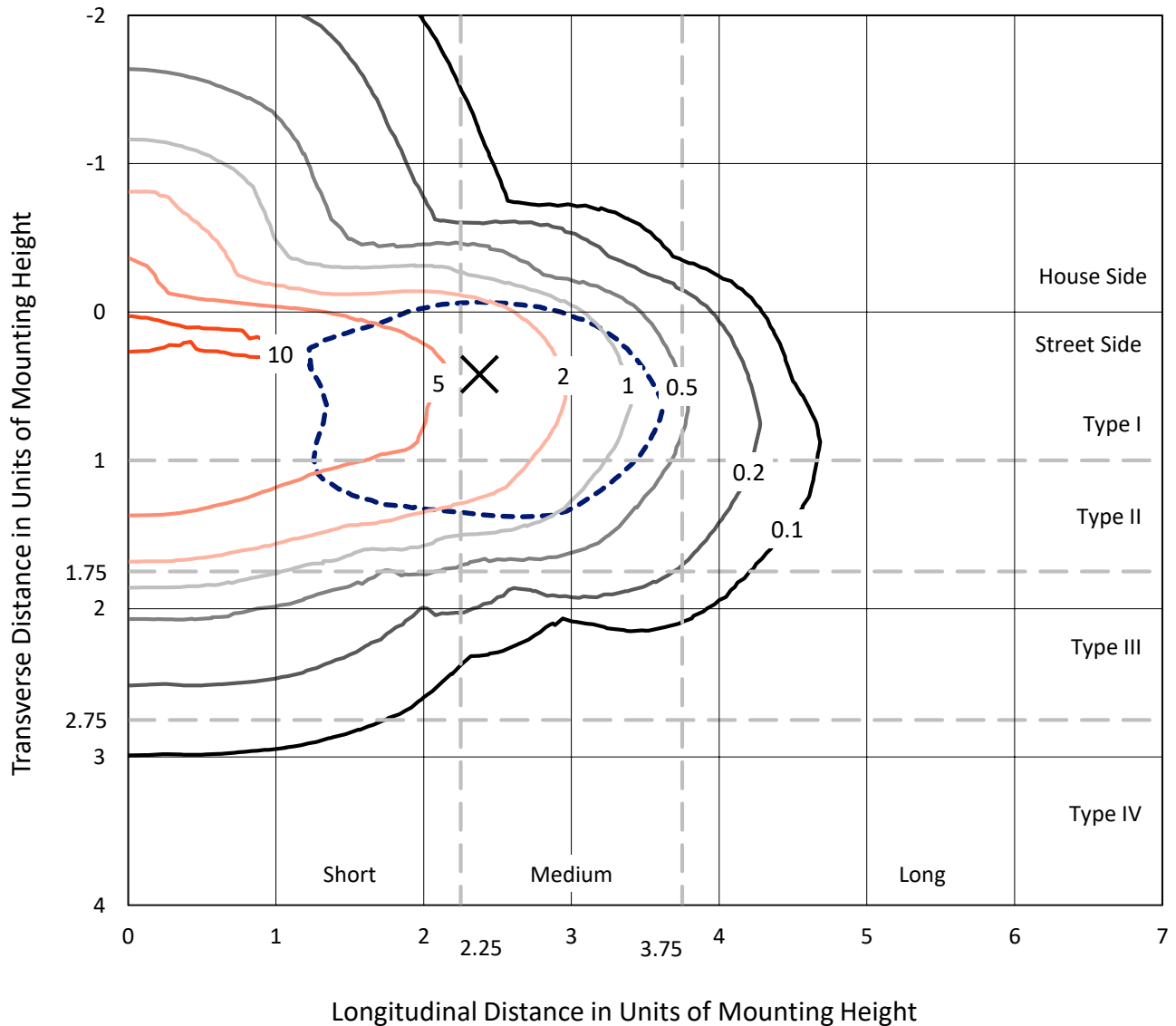
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

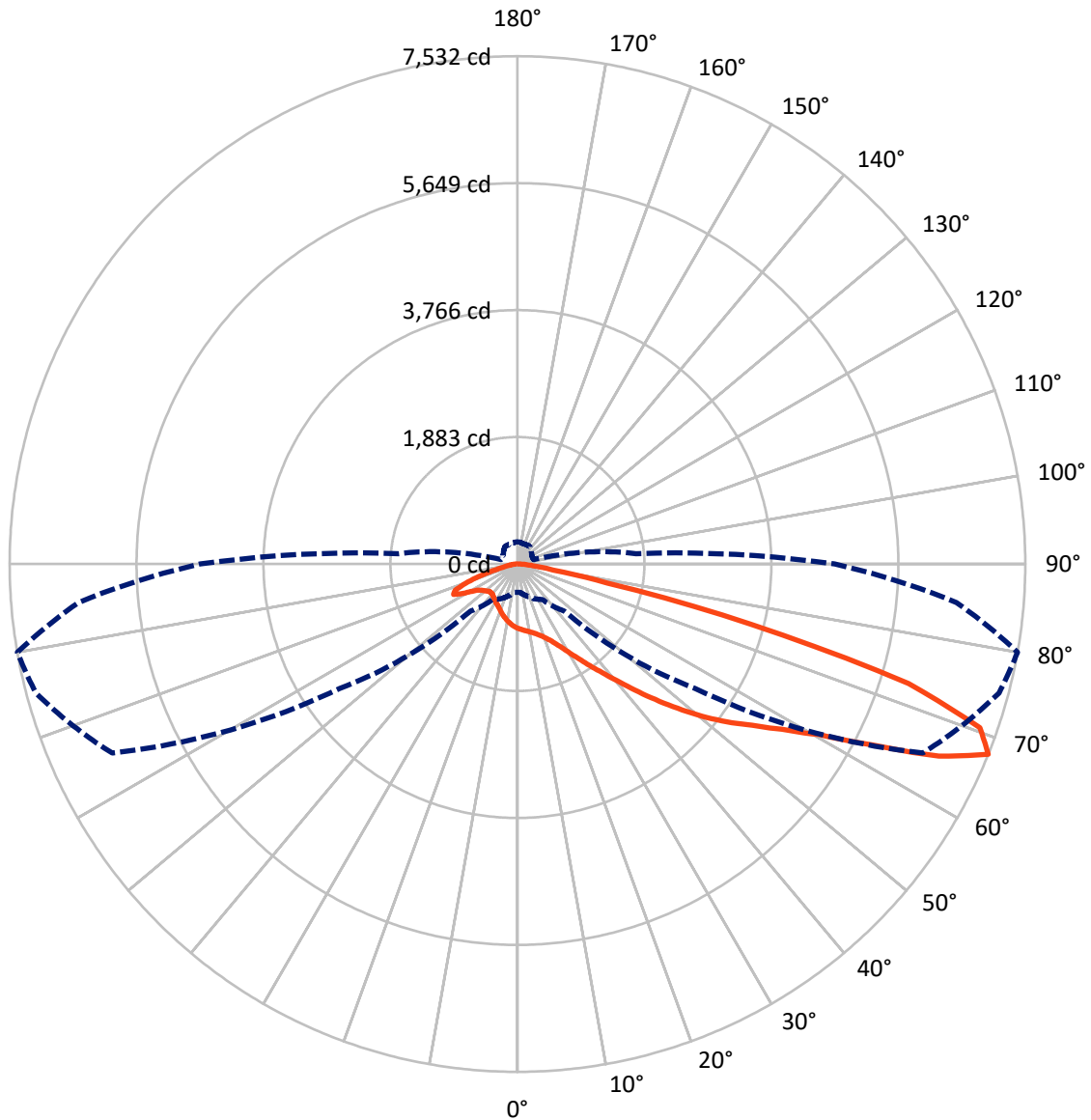
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1263.9 | 0.0 | 1263.9 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 5599.1 | 0.0 | 5599.1 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 6863.0 | 0.0 | 6863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.0 | 1.3 |
| 10°-20° | 253.4 | 3.7 |
| 20°-30° | 419.4 | 6.1 |
| 30°-40° | 686.0 | 10.0 |
| 40°-50° | 1107.6 | 16.1 |
| 50°-60° | 1599.1 | 23.3 |
| 60°-70° | 1764.7 | 25.7 |
| 70°-80° | 813.4 | 11.9 |
| 80°-90° | 131.6 | 1.9 |
| 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° | 6863.0 | 100.0 |
| 0°-180° | 6863.0 | 100.0 |



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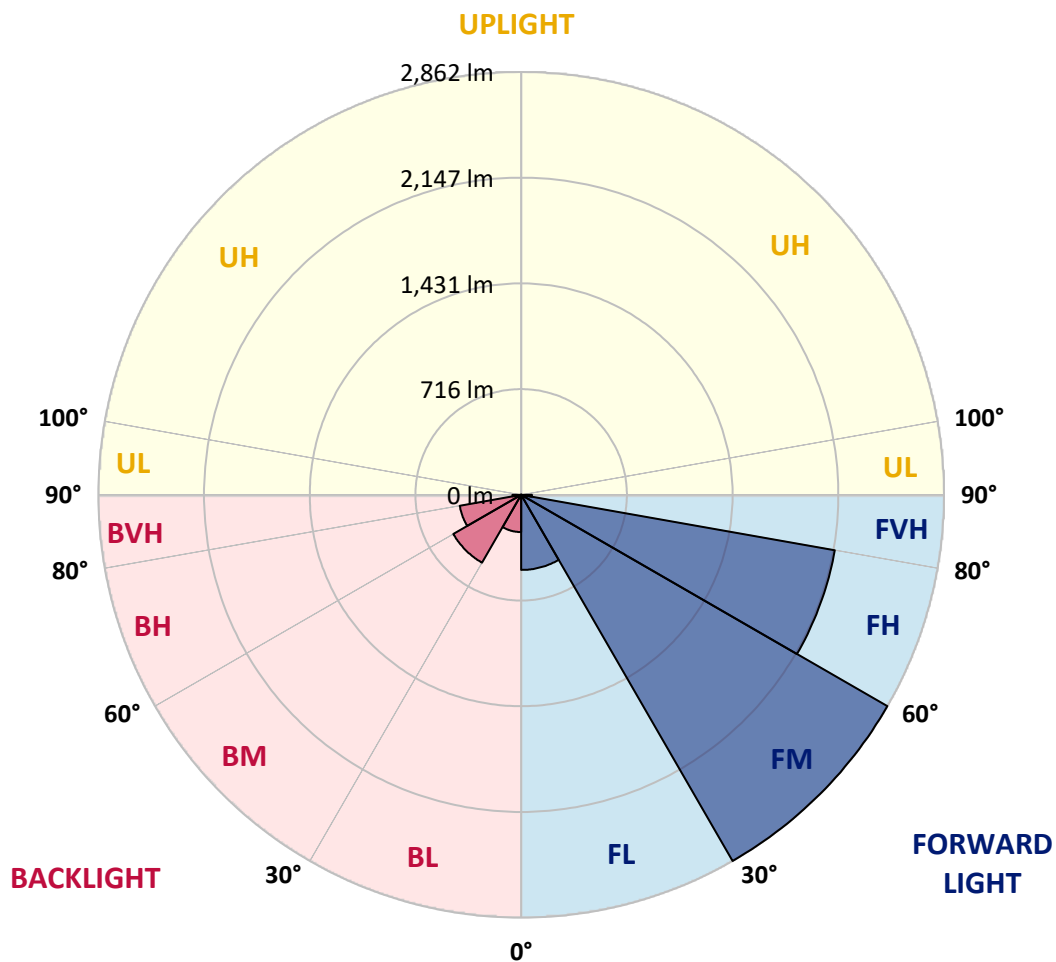
CATALOG NUMBER: GAN-AF-01-LED-U-T2-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 508.5 | 7.4 | | | |
| FM (30°-60°) | 2862.4 | 41.7 | | | |
| FH (60°-80°) | 2155.8 | 31.4 | | | G2/5000 |
| FVH (80°-90°) | 72.3 | 1.1 | | | G1/100 |
| BL (0°-30°) | 252.2 | 3.7 | B1/500 | | |
| BM (30°-60°) | 530.3 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 422.2 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 59.2 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 |
| 2.5° | 1043.0 | 1037.0 | 1037.9 | 1036.2 | 1031.1 | 1022.4 | 1012.9 | 995.7 | 977.8 | 968.3 | 960.9 |
| 5° | 1130.2 | 1128.5 | 1126.2 | 1120.7 | 1107.9 | 1089.6 | 1067.0 | 1036.6 | 1003.8 | 986.5 | 970.1 |
| 7.5° | 1195.4 | 1194.4 | 1191.3 | 1188.0 | 1175.5 | 1153.5 | 1119.3 | 1076.1 | 1028.5 | 1004.8 | 979.2 |
| 10° | 1200.7 | 1202.5 | 1204.8 | 1213.9 | 1215.7 | 1203.8 | 1169.0 | 1116.7 | 1054.2 | 1023.8 | 990.9 |
| 12.5° | 1154.8 | 1158.6 | 1167.7 | 1191.0 | 1215.7 | 1230.2 | 1212.3 | 1159.2 | 1084.2 | 1047.4 | 1005.9 |
| 15° | 1094.0 | 1096.1 | 1107.2 | 1139.3 | 1183.6 | 1228.5 | 1245.3 | 1206.2 | 1123.1 | 1077.8 | 1028.2 |
| 17.5° | 1068.0 | 1069.0 | 1076.8 | 1098.0 | 1139.3 | 1203.5 | 1264.0 | 1257.2 | 1170.8 | 1115.6 | 1055.5 |
| 20° | 1054.9 | 1057.2 | 1068.4 | 1089.3 | 1115.3 | 1171.4 | 1266.7 | 1312.2 | 1227.4 | 1163.0 | 1090.0 |
| 22.5° | 1092.3 | 1091.3 | 1095.4 | 1105.8 | 1127.8 | 1161.6 | 1264.7 | 1369.0 | 1299.8 | 1223.8 | 1134.9 |
| 25° | 1179.9 | 1183.6 | 1176.5 | 1164.6 | 1171.7 | 1195.4 | 1275.4 | 1430.5 | 1390.3 | 1301.8 | 1193.7 |
| 27.5° | 1304.5 | 1300.8 | 1290.4 | 1262.6 | 1248.1 | 1258.2 | 1311.3 | 1496.8 | 1502.8 | 1404.5 | 1271.4 |
| 30° | 1428.9 | 1425.8 | 1415.7 | 1381.9 | 1352.1 | 1343.7 | 1380.9 | 1572.8 | 1636.9 | 1527.9 | 1366.7 |
| 32.5° | 1558.0 | 1554.6 | 1545.1 | 1511.3 | 1475.5 | 1455.9 | 1479.9 | 1660.7 | 1795.1 | 1675.2 | 1478.9 |
| 35° | 1717.0 | 1710.7 | 1690.7 | 1643.8 | 1608.6 | 1593.3 | 1604.5 | 1771.1 | 1977.6 | 1849.5 | 1615.0 |
| 37.5° | 1866.7 | 1876.5 | 1856.2 | 1791.4 | 1745.8 | 1740.3 | 1752.8 | 1906.0 | 2174.2 | 2044.5 | 1771.4 |
| 40° | 2017.1 | 2018.8 | 2000.5 | 1947.5 | 1900.5 | 1891.7 | 1923.1 | 2069.4 | 2406.3 | 2277.6 | 1961.7 |
| 42.5° | 2172.5 | 2175.9 | 2145.1 | 2096.1 | 2061.7 | 2063.4 | 2099.2 | 2261.0 | 2672.6 | 2552.3 | 2180.6 |
| 45° | 2356.7 | 2361.7 | 2327.9 | 2263.7 | 2232.3 | 2295.5 | 2280.6 | 2476.0 | 2964.5 | 2864.5 | 2432.0 |
| 47.5° | 2549.2 | 2557.0 | 2531.3 | 2471.1 | 2432.0 | 2518.8 | 2462.0 | 2714.1 | 3278.7 | 3199.3 | 2708.1 |
| 50° | 2654.3 | 2665.4 | 2690.5 | 2686.1 | 2677.6 | 2663.0 | 2664.5 | 2969.5 | 3602.7 | 3548.0 | 2991.8 |
| 52.5° | 2597.9 | 2597.6 | 2688.7 | 2799.6 | 2917.9 | 2926.7 | 2911.1 | 3238.8 | 3905.4 | 3888.8 | 3259.1 |
| 55° | 2339.8 | 2357.3 | 2495.5 | 2710.0 | 3033.0 | 3234.8 | 3280.7 | 3547.3 | 4202.8 | 4222.0 | 3530.4 |
| 57.5° | 1910.0 | 1924.5 | 2111.0 | 2410.1 | 2877.7 | 3417.9 | 3806.4 | 3995.6 | 4535.3 | 4625.1 | 3891.6 |
| 60° | 1295.4 | 1313.0 | 1510.6 | 1869.7 | 2459.4 | 3315.9 | 4306.8 | 4795.7 | 4933.2 | 5137.7 | 4398.4 |
| 62.5° | 761.2 | 777.1 | 938.3 | 1179.5 | 1731.5 | 2841.9 | 4526.5 | 5934.0 | 5565.4 | 5911.0 | 5171.4 |
| 65° | 524.1 | 534.8 | 613.3 | 734.2 | 995.0 | 1914.0 | 4254.1 | 6719.9 | 6538.1 | 6869.2 | 6067.8 |
| 67.5° | 421.7 | 420.3 | 482.5 | 564.9 | 640.6 | 986.9 | 3216.9 | 6631.0 | 7393.6 | 7531.8 | 6533.1 |
| 70° | 347.3 | 346.0 | 388.2 | 456.4 | 511.9 | 555.8 | 1752.2 | 5595.7 | 7219.3 | 7275.3 | 6104.7 |
| 72.5° | 290.5 | 292.0 | 319.0 | 369.6 | 419.9 | 418.6 | 770.0 | 3936.5 | 5679.2 | 6067.1 | 4866.4 |
| 75° | 245.3 | 246.0 | 263.9 | 299.7 | 340.9 | 337.2 | 417.6 | 2132.6 | 3301.4 | 3571.3 | 2697.5 |
| 77.5° | 208.8 | 209.5 | 221.0 | 240.9 | 270.3 | 268.9 | 304.7 | 921.4 | 1377.2 | 1360.2 | 922.7 |
| 80° | 186.2 | 186.2 | 191.6 | 195.3 | 211.5 | 205.4 | 226.1 | 442.6 | 582.2 | 537.6 | 368.3 |
| 82.5° | 146.0 | 146.6 | 179.7 | 178.4 | 166.5 | 158.8 | 158.8 | 260.9 | 308.5 | 285.2 | 215.5 |
| 85° | 82.1 | 81.7 | 115.9 | 139.8 | 146.6 | 111.8 | 110.8 | 146.0 | 168.0 | 148.0 | 104.4 |
| 87.5° | 35.2 | 35.8 | 53.7 | 62.2 | 83.2 | 69.6 | 68.5 | 75.4 | 85.5 | 74.0 | 48.3 |
| 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° | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 | 953.5 |
| 2.5° | 953.8 | 945.0 | 925.8 | 901.7 | 880.1 | 865.9 | 853.1 | 834.5 | 835.5 | 822.8 | 813.2 |
| 5° | 953.1 | 934.9 | 890.3 | 837.3 | 786.2 | 749.4 | 721.7 | 696.7 | 690.6 | 678.8 | 671.7 |
| 7.5° | 953.8 | 924.0 | 849.0 | 764.2 | 701.0 | 654.5 | 630.8 | 617.7 | 614.6 | 610.5 | 610.9 |
| 10° | 956.2 | 914.3 | 803.8 | 696.0 | 629.8 | 599.0 | 593.3 | 597.4 | 602.1 | 603.4 | 603.7 |
| 12.5° | 961.6 | 905.5 | 754.1 | 635.2 | 585.2 | 575.7 | 585.5 | 599.3 | 608.6 | 612.8 | 612.5 |
| 15° | 973.7 | 898.8 | 706.4 | 587.6 | 560.5 | 565.6 | 583.8 | 603.4 | 616.6 | 622.7 | 623.1 |
| 17.5° | 986.9 | 888.9 | 657.5 | 551.1 | 542.3 | 555.2 | 577.8 | 600.8 | 616.9 | 623.7 | 625.0 |
| 20° | 1004.1 | 876.8 | 606.1 | 523.6 | 525.1 | 539.6 | 560.9 | 583.8 | 601.7 | 607.5 | 610.2 |
| 22.5° | 1026.7 | 863.6 | 561.2 | 501.3 | 505.4 | 516.6 | 533.2 | 553.1 | 568.7 | 571.3 | 573.7 |
| 25° | 1057.2 | 849.4 | 525.4 | 481.1 | 482.8 | 489.3 | 500.4 | 512.2 | 523.0 | 520.0 | 522.3 |
| 27.5° | 1098.0 | 837.3 | 498.7 | 462.6 | 459.5 | 460.8 | 466.6 | 470.4 | 476.1 | 467.6 | 468.6 |
| 30° | 1146.0 | 824.1 | 478.1 | 446.3 | 437.9 | 435.5 | 436.9 | 438.8 | 443.2 | 431.8 | 430.2 |
| 32.5° | 1201.8 | 808.2 | 458.8 | 432.1 | 420.3 | 415.6 | 416.2 | 421.7 | 438.5 | 431.5 | 427.7 |
| 35° | 1266.7 | 790.2 | 438.5 | 416.5 | 408.5 | 401.7 | 401.1 | 418.0 | 468.3 | 463.9 | 460.5 |
| 37.5° | 1342.7 | 772.3 | 418.3 | 399.1 | 399.7 | 392.3 | 389.9 | 409.2 | 474.0 | 456.8 | 454.4 |
| 40° | 1439.3 | 762.9 | 401.1 | 380.4 | 388.9 | 387.9 | 383.1 | 392.9 | 436.2 | 404.8 | 400.7 |
| 42.5° | 1559.0 | 764.2 | 388.2 | 360.5 | 376.0 | 386.9 | 379.4 | 379.7 | 395.3 | 371.6 | 368.0 |
| 45° | 1706.6 | 780.1 | 379.1 | 344.6 | 361.5 | 385.9 | 378.1 | 372.7 | 374.0 | 361.5 | 359.5 |
| 47.5° | 1878.9 | 812.9 | 372.7 | 331.4 | 347.7 | 382.2 | 377.8 | 370.6 | 367.6 | 360.8 | 359.2 |
| 50° | 2070.5 | 860.5 | 368.0 | 319.0 | 335.1 | 376.0 | 378.1 | 368.6 | 365.2 | 362.5 | 361.5 |
| 52.5° | 2258.7 | 914.9 | 360.8 | 308.1 | 325.4 | 368.6 | 379.1 | 366.6 | 362.8 | 360.8 | 359.9 |
| 55° | 2468.5 | 982.9 | 350.1 | 299.0 | 317.2 | 359.2 | 379.1 | 363.6 | 359.5 | 359.9 | 359.5 |
| 57.5° | 2751.9 | 1092.7 | 337.2 | 291.2 | 307.5 | 347.7 | 372.7 | 360.2 | 355.1 | 355.5 | 355.8 |
| 60° | 3194.9 | 1286.3 | 321.6 | 283.5 | 295.3 | 334.2 | 363.9 | 352.7 | 347.7 | 349.0 | 349.3 |
| 62.5° | 3846.3 | 1570.4 | 301.4 | 272.0 | 282.4 | 319.7 | 351.7 | 343.3 | 338.2 | 341.6 | 341.6 |
| 65° | 4523.4 | 1821.2 | 276.4 | 257.5 | 268.9 | 303.7 | 336.6 | 331.4 | 326.4 | 334.2 | 333.8 |
| 67.5° | 4705.5 | 1765.0 | 251.3 | 241.6 | 255.4 | 286.2 | 318.2 | 315.6 | 312.8 | 326.4 | 325.7 |
| 70° | 4180.1 | 1417.0 | 228.4 | 225.4 | 240.6 | 267.3 | 298.7 | 298.7 | 297.0 | 307.1 | 304.7 |
| 72.5° | 3184.8 | 1004.8 | 206.4 | 208.2 | 223.7 | 246.6 | 277.4 | 279.8 | 277.0 | 282.1 | 280.1 |
| 75° | 1704.8 | 575.1 | 184.4 | 189.2 | 202.7 | 225.7 | 253.7 | 256.1 | 254.4 | 254.1 | 255.1 |
| 77.5° | 566.6 | 281.1 | 161.5 | 168.9 | 180.8 | 204.1 | 229.0 | 232.8 | 228.7 | 228.0 | 227.7 |
| 80° | 252.4 | 176.7 | 136.2 | 146.0 | 156.4 | 179.4 | 203.1 | 206.1 | 201.7 | 207.8 | 200.0 |
| 82.5° | 162.1 | 116.2 | 109.1 | 120.0 | 130.1 | 154.8 | 177.1 | 177.7 | 173.7 | 201.7 | 172.0 |
| 85° | 78.8 | 72.0 | 82.1 | 91.9 | 100.7 | 121.6 | 146.6 | 147.0 | 136.9 | 124.7 | 120.3 |
| 87.5° | 39.2 | 41.9 | 54.7 | 63.5 | 67.9 | 83.5 | 106.8 | 104.8 | 100.4 | 91.2 | 84.1 |
| 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)