

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: P451314

Luminaire Tested: **GLAN-SA2A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7247 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

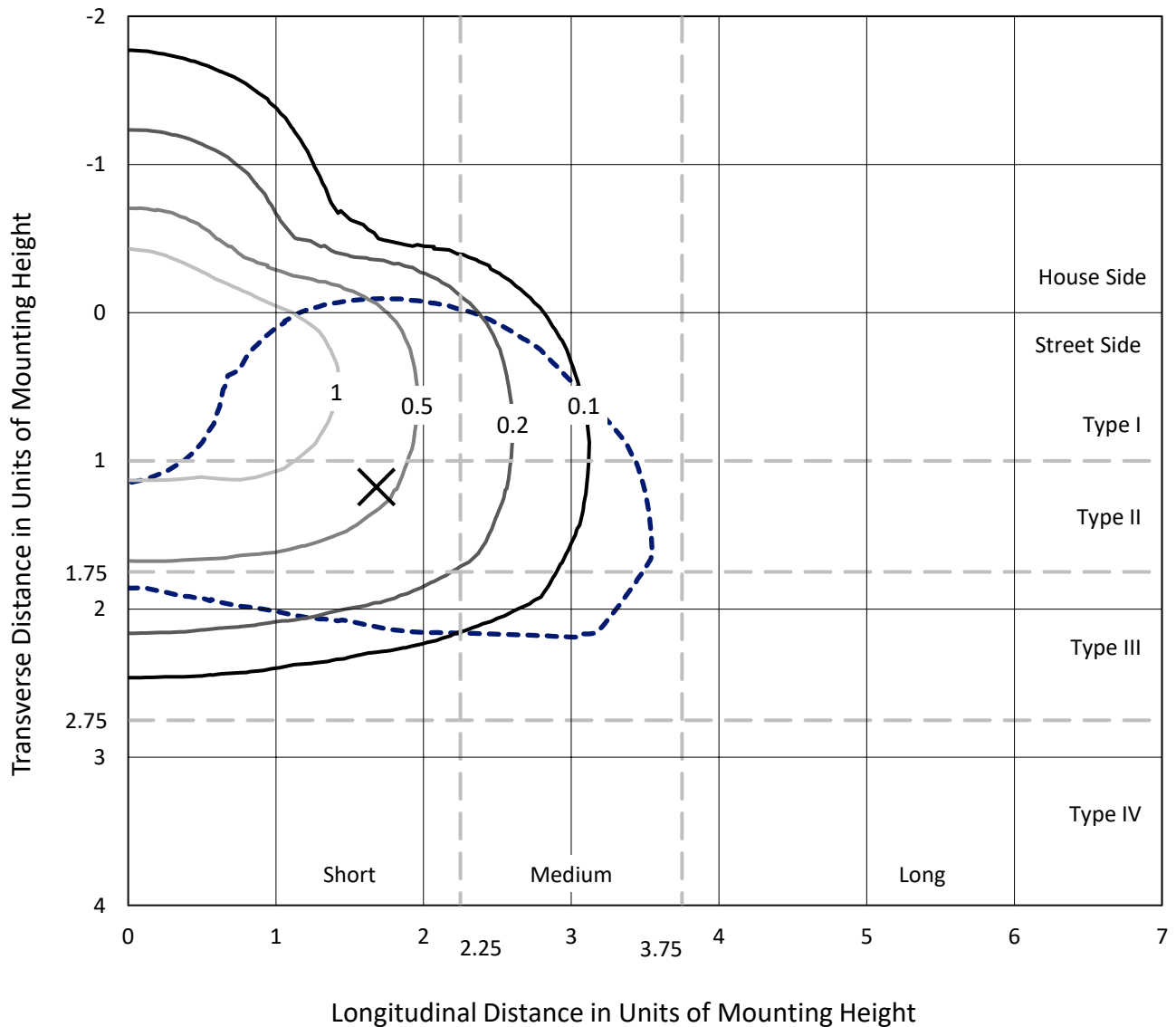
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

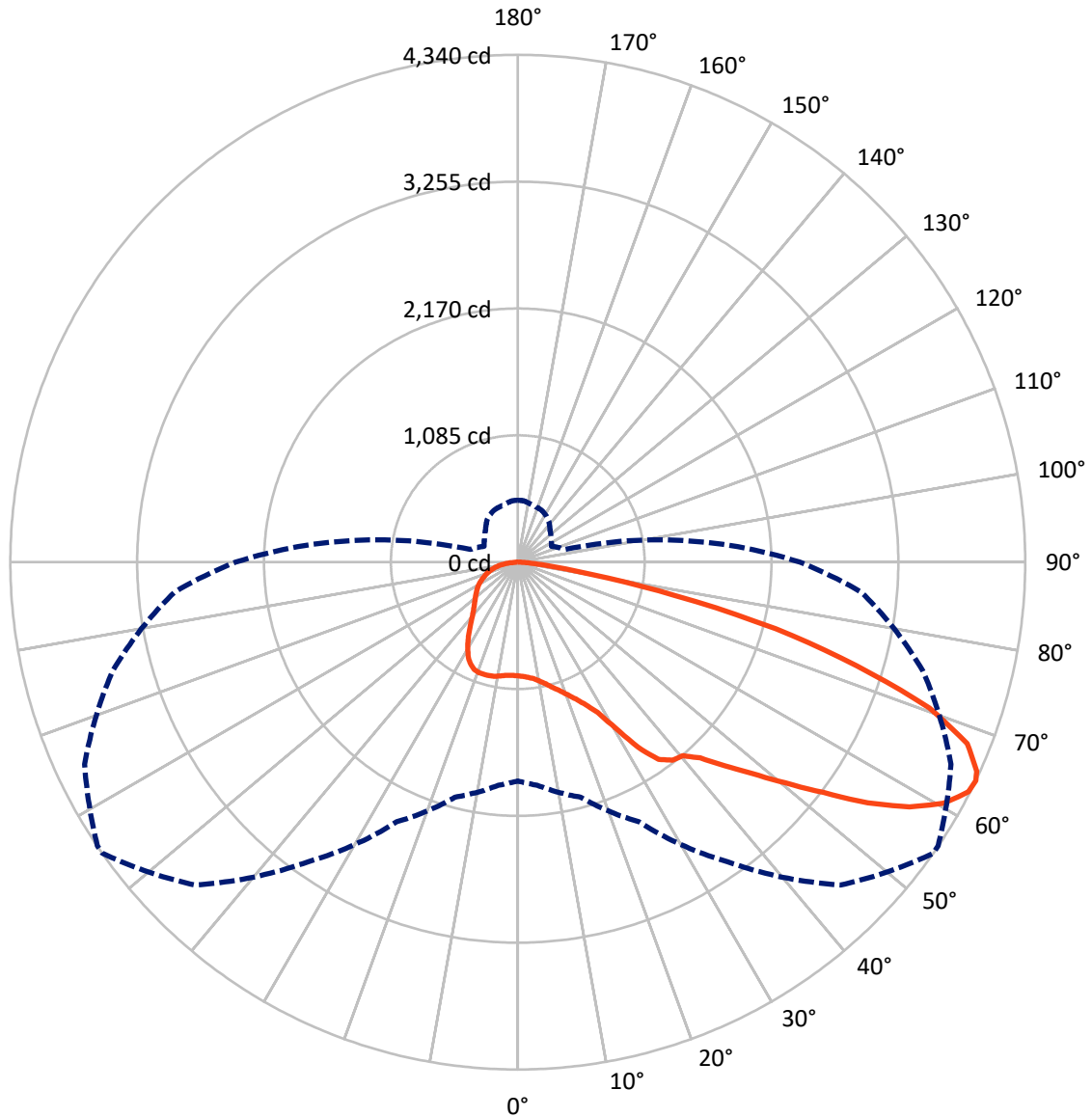
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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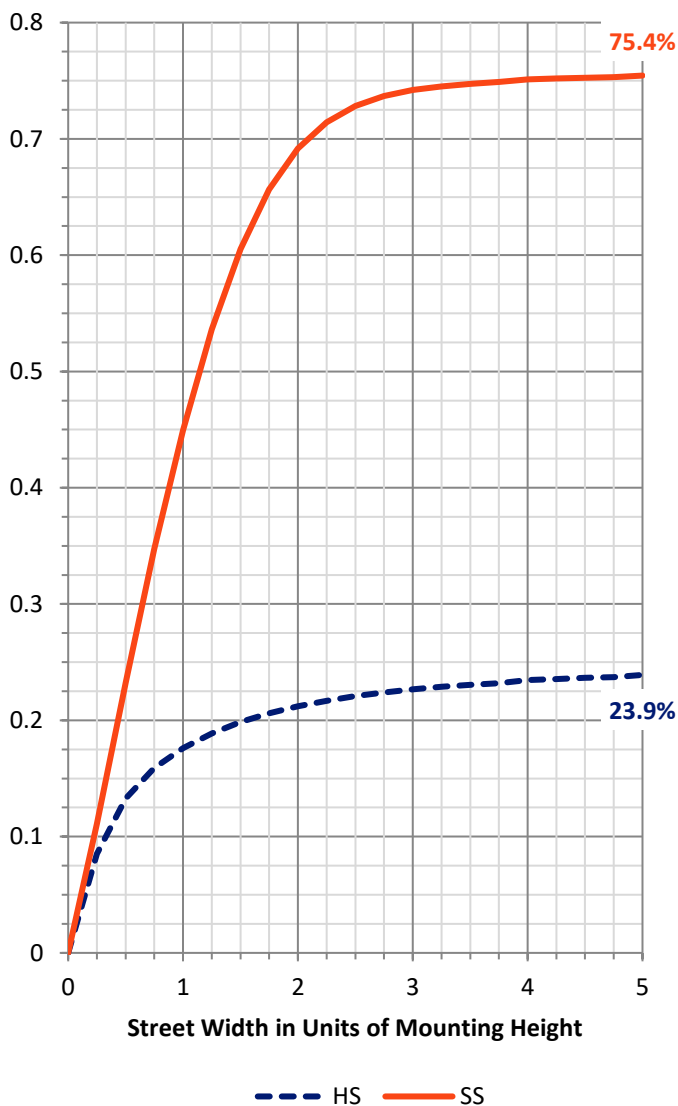
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1760.4 | 0.0 | 1760.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 5486.6 | 0.0 | 5486.6 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 7247.0 | 0.0 | 7247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.6 | 1.3 |
| 10°-20° | 298.4 | 4.1 |
| 20°-30° | 531.3 | 7.3 |
| 30°-40° | 817.4 | 11.3 |
| 40°-50° | 1158.8 | 16.0 |
| 50°-60° | 1677.3 | 23.1 |
| 60°-70° | 1735.9 | 24.0 |
| 70°-80° | 812.9 | 11.2 |
| 80°-90° | 120.3 | 1.7 |
| 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° | 7247.0 | 100.0 |
| 0°-180° | 7247.0 | 100.0 |

Coefficient of Utilization



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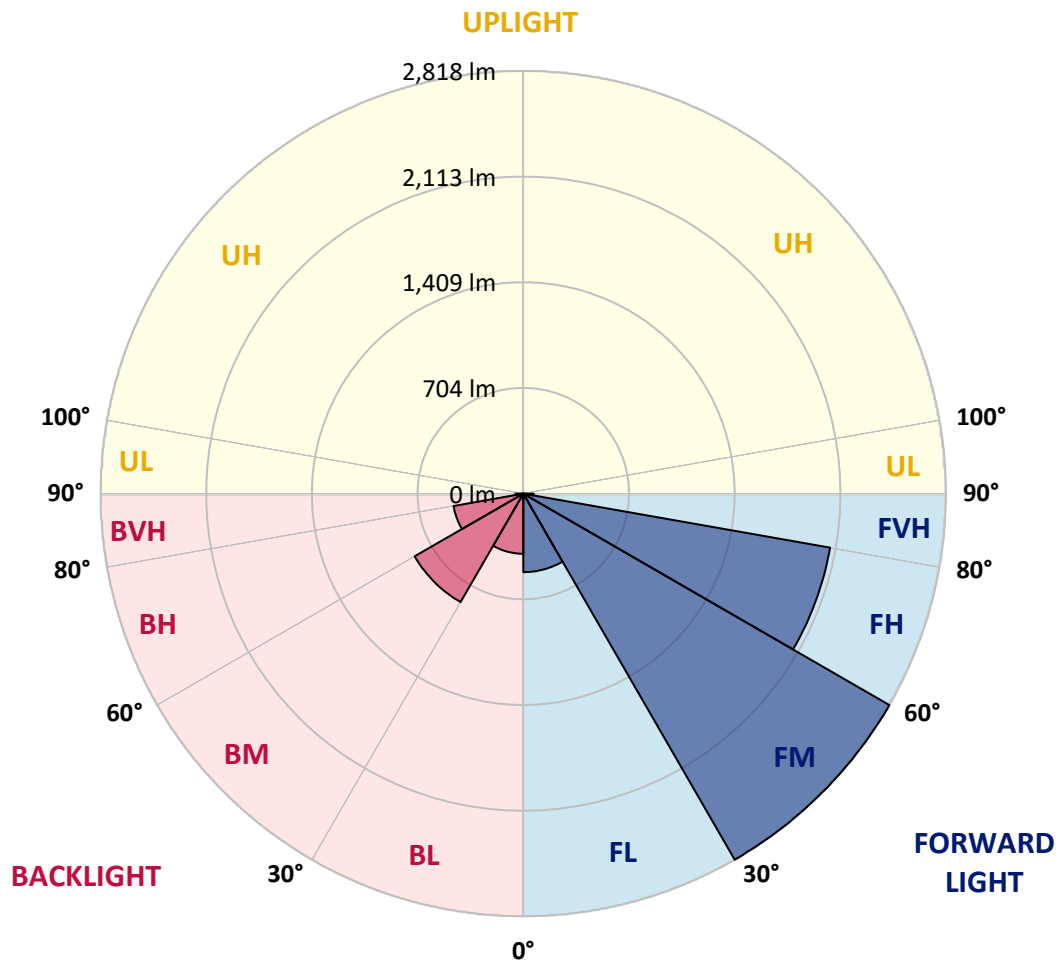
CATALOG NUMBER: GLAN-SA2A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 523.3 | 7.2 | | | |
| FM (30°-60°) | 2817.8 | 38.9 | | | |
| FH (60°-80°) | 2076.5 | 28.7 | | | G2/5000 |
| FVH (80°-90°) | 68.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 401.0 | 5.5 | B1/500 | | |
| BM (30°-60°) | 835.7 | 11.5 | B1/1000 | | |
| BH (60°-80°) | 472.3 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 51.4 | 0.7 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 |
| 2.5° | 983.2 | 982.8 | 984.0 | 982.8 | 983.6 | 980.8 | 979.6 | 980.4 | 979.2 | 977.2 | 973.5 |
| 5° | 995.4 | 995.0 | 995.4 | 993.7 | 994.5 | 992.9 | 990.1 | 990.9 | 988.9 | 984.4 | 979.2 |
| 7.5° | 1016.0 | 1014.3 | 1014.3 | 1013.9 | 1012.3 | 1009.9 | 1007.9 | 1007.1 | 1005.0 | 999.4 | 991.3 |
| 10° | 1042.6 | 1042.6 | 1043.0 | 1039.8 | 1041.8 | 1037.4 | 1035.3 | 1034.9 | 1028.1 | 1020.8 | 1009.5 |
| 12.5° | 1077.8 | 1079.8 | 1078.6 | 1077.0 | 1076.1 | 1074.5 | 1067.7 | 1069.3 | 1061.6 | 1049.1 | 1035.3 |
| 15° | 1121.4 | 1124.6 | 1122.6 | 1121.8 | 1119.8 | 1113.7 | 1110.9 | 1109.7 | 1099.6 | 1081.4 | 1063.2 |
| 17.5° | 1179.2 | 1175.1 | 1173.5 | 1171.5 | 1163.0 | 1158.6 | 1153.7 | 1152.9 | 1144.0 | 1122.6 | 1094.3 |
| 20° | 1229.7 | 1235.3 | 1232.1 | 1230.1 | 1221.6 | 1213.1 | 1209.5 | 1208.2 | 1200.6 | 1177.1 | 1131.9 |
| 22.5° | 1289.8 | 1291.1 | 1292.3 | 1287.4 | 1283.4 | 1276.9 | 1270.5 | 1268.4 | 1265.6 | 1241.4 | 1186.0 |
| 25° | 1354.1 | 1358.9 | 1354.9 | 1350.0 | 1345.2 | 1344.8 | 1350.8 | 1350.0 | 1348.8 | 1325.4 | 1257.9 |
| 27.5° | 1458.7 | 1463.1 | 1464.4 | 1459.1 | 1440.5 | 1442.1 | 1455.9 | 1460.3 | 1478.9 | 1440.1 | 1350.4 |
| 30° | 1517.7 | 1522.1 | 1532.2 | 1552.0 | 1581.5 | 1607.4 | 1640.5 | 1650.6 | 1668.3 | 1595.2 | 1460.3 |
| 32.5° | 1554.0 | 1555.6 | 1573.8 | 1610.6 | 1699.1 | 1795.6 | 1885.7 | 1889.3 | 1900.6 | 1798.0 | 1560.9 |
| 35° | 1611.4 | 1612.6 | 1627.1 | 1667.5 | 1771.4 | 1932.1 | 2071.5 | 2075.9 | 2066.7 | 1861.0 | 1607.8 |
| 37.5° | 1682.1 | 1685.3 | 1694.6 | 1728.1 | 1852.2 | 2046.5 | 2148.7 | 2145.4 | 2063.0 | 1911.1 | 1690.6 |
| 40° | 1785.1 | 1785.1 | 1774.2 | 1819.4 | 1937.4 | 2111.9 | 2175.7 | 2170.1 | 2148.3 | 2056.1 | 1816.6 |
| 42.5° | 1876.0 | 1874.4 | 1900.2 | 1930.9 | 2044.0 | 2212.9 | 2289.2 | 2298.5 | 2334.5 | 2238.3 | 1960.0 |
| 45° | 1994.3 | 2001.6 | 2016.2 | 2071.9 | 2225.4 | 2385.4 | 2483.9 | 2492.8 | 2543.7 | 2452.8 | 2127.7 |
| 47.5° | 2113.9 | 2116.3 | 2162.0 | 2236.3 | 2450.0 | 2619.3 | 2700.1 | 2714.6 | 2761.1 | 2703.7 | 2308.2 |
| 50° | 2198.7 | 2221.8 | 2294.9 | 2412.0 | 2681.5 | 2904.5 | 2967.5 | 2984.9 | 3066.9 | 2976.8 | 2518.7 |
| 52.5° | 2288.4 | 2311.0 | 2400.3 | 2578.9 | 2947.3 | 3196.1 | 3273.7 | 3285.4 | 3370.6 | 3253.1 | 2734.0 |
| 55° | 2365.2 | 2386.2 | 2487.6 | 2726.7 | 3159.0 | 3493.8 | 3634.4 | 3620.7 | 3661.5 | 3466.0 | 2900.0 |
| 57.5° | 2377.7 | 2394.7 | 2522.3 | 2821.2 | 3318.1 | 3749.1 | 3950.7 | 3958.8 | 3911.5 | 3625.1 | 3037.0 |
| 60° | 2280.8 | 2315.5 | 2462.1 | 2811.1 | 3389.6 | 3926.9 | 4186.6 | 4192.3 | 4058.2 | 3706.7 | 3091.5 |
| 62.5° | 2109.1 | 2105.4 | 2282.8 | 2648.8 | 3289.4 | 3967.3 | 4325.6 | 4319.5 | 4115.5 | 3667.5 | 3038.6 |
| 64° | 1871.9 | 1915.6 | 2081.2 | 2449.2 | 3127.9 | 3905.1 | 4340.1 | 4336.9 | 4088.1 | 3585.9 | 2948.5 |
| 65° | 1727.3 | 1724.9 | 1888.5 | 2286.0 | 2967.1 | 3811.4 | 4314.3 | 4309.8 | 4030.7 | 3512.8 | 2878.6 |
| 67.5° | 1247.0 | 1252.7 | 1414.3 | 1764.1 | 2412.0 | 3445.0 | 4145.8 | 4129.3 | 3804.5 | 3270.4 | 2612.8 |
| 70° | 755.4 | 758.6 | 885.5 | 1170.3 | 1731.4 | 2784.9 | 3737.0 | 3737.8 | 3458.3 | 2908.5 | 2223.8 |
| 72.5° | 397.9 | 406.4 | 457.3 | 664.5 | 1051.5 | 1953.9 | 3031.7 | 3103.6 | 2969.1 | 2482.3 | 1756.8 |
| 75° | 221.4 | 222.6 | 258.5 | 327.6 | 536.5 | 1093.5 | 2278.7 | 2299.3 | 2350.6 | 1998.0 | 1299.1 |
| 77.5° | 168.9 | 171.3 | 182.6 | 211.7 | 292.1 | 507.0 | 1379.1 | 1482.5 | 1656.6 | 1408.6 | 741.3 |
| 80° | 136.9 | 139.4 | 149.1 | 166.4 | 194.3 | 240.4 | 640.7 | 696.4 | 886.7 | 625.3 | 289.2 |
| 82.5° | 106.6 | 105.0 | 117.6 | 128.9 | 141.4 | 142.2 | 263.0 | 290.9 | 361.1 | 269.0 | 125.2 |
| 85° | 79.2 | 79.2 | 89.3 | 86.9 | 91.3 | 83.2 | 115.9 | 128.1 | 144.6 | 114.3 | 58.2 |
| 87.5° | 31.5 | 34.7 | 58.6 | 52.5 | 40.8 | 32.7 | 42.8 | 45.2 | 50.1 | 44.8 | 24.2 |
| 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° | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 | 972.3 |
| 2.5° | 973.9 | 975.2 | 972.3 | 970.3 | 969.5 | 968.3 | 967.1 | 967.5 | 969.1 | 970.7 | 970.3 |
| 5° | 978.8 | 979.2 | 974.3 | 971.9 | 970.3 | 968.7 | 968.7 | 969.9 | 973.1 | 975.6 | 975.6 |
| 7.5° | 990.9 | 990.9 | 984.0 | 979.6 | 977.2 | 974.3 | 973.5 | 973.9 | 976.4 | 979.6 | 980.0 |
| 10° | 1009.9 | 1008.3 | 999.4 | 992.5 | 988.1 | 981.2 | 975.2 | 971.9 | 973.1 | 975.2 | 975.2 |
| 12.5° | 1032.9 | 1028.5 | 1017.2 | 1007.9 | 997.0 | 984.0 | 971.5 | 965.1 | 964.7 | 966.7 | 965.9 |
| 15° | 1057.6 | 1052.7 | 1037.0 | 1020.0 | 1001.0 | 982.0 | 967.1 | 957.8 | 950.5 | 948.5 | 952.9 |
| 17.5° | 1086.2 | 1076.1 | 1054.3 | 1030.9 | 1002.6 | 978.0 | 954.6 | 935.6 | 922.6 | 919.0 | 920.2 |
| 20° | 1121.0 | 1107.7 | 1078.2 | 1041.4 | 1001.4 | 963.4 | 927.1 | 901.6 | 880.6 | 874.2 | 875.0 |
| 22.5° | 1169.1 | 1146.0 | 1102.8 | 1046.7 | 991.3 | 936.0 | 885.5 | 852.4 | 826.9 | 816.8 | 822.9 |
| 25° | 1223.6 | 1198.5 | 1126.2 | 1045.4 | 965.1 | 891.9 | 836.2 | 793.0 | 769.9 | 755.0 | 758.2 |
| 27.5° | 1298.7 | 1254.3 | 1151.3 | 1034.5 | 927.5 | 838.2 | 773.6 | 732.8 | 711.8 | 704.1 | 707.7 |
| 30° | 1394.9 | 1326.6 | 1178.3 | 1005.0 | 868.1 | 770.3 | 710.6 | 683.9 | 671.4 | 661.7 | 664.9 |
| 32.5° | 1464.4 | 1377.5 | 1184.4 | 955.4 | 803.9 | 708.5 | 667.7 | 647.9 | 634.2 | 624.9 | 626.9 |
| 35° | 1514.0 | 1420.7 | 1181.6 | 894.4 | 736.8 | 657.6 | 633.8 | 617.7 | 595.4 | 575.2 | 571.6 |
| 37.5° | 1580.7 | 1474.9 | 1161.0 | 827.7 | 670.6 | 623.3 | 606.3 | 576.4 | 544.5 | 517.5 | 516.3 |
| 40° | 1682.9 | 1538.3 | 1116.9 | 749.3 | 614.0 | 597.9 | 577.3 | 538.5 | 504.1 | 482.3 | 480.7 |
| 42.5° | 1788.3 | 1596.8 | 1057.2 | 666.9 | 567.6 | 571.2 | 546.2 | 507.8 | 486.8 | 472.6 | 471.0 |
| 45° | 1917.2 | 1660.3 | 992.5 | 595.4 | 533.2 | 546.2 | 519.1 | 496.9 | 484.3 | 475.1 | 472.6 |
| 47.5° | 2056.6 | 1725.3 | 919.8 | 531.2 | 504.1 | 523.1 | 507.8 | 497.7 | 490.8 | 484.3 | 481.5 |
| 50° | 2206.8 | 1798.0 | 851.5 | 479.5 | 477.9 | 499.3 | 506.6 | 502.9 | 498.9 | 496.9 | 494.4 |
| 52.5° | 2371.6 | 1872.3 | 794.2 | 443.1 | 454.9 | 482.3 | 507.0 | 509.8 | 509.8 | 508.6 | 507.0 |
| 55° | 2483.1 | 1924.1 | 736.0 | 413.7 | 431.4 | 468.6 | 506.2 | 517.1 | 521.1 | 519.5 | 517.9 |
| 57.5° | 2565.5 | 1952.3 | 662.9 | 388.2 | 411.6 | 455.3 | 501.7 | 517.9 | 521.9 | 523.9 | 523.1 |
| 60° | 2582.5 | 1926.1 | 567.2 | 361.5 | 390.2 | 435.9 | 485.6 | 505.8 | 511.0 | 523.5 | 524.7 |
| 62.5° | 2506.2 | 1845.3 | 471.8 | 335.3 | 364.0 | 406.4 | 463.7 | 492.0 | 502.5 | 521.9 | 523.9 |
| 64° | 2412.4 | 1754.8 | 418.9 | 318.7 | 347.0 | 389.8 | 452.8 | 488.4 | 502.1 | 528.0 | 529.6 |
| 65° | 2343.8 | 1689.0 | 385.8 | 308.2 | 336.1 | 378.9 | 446.8 | 489.6 | 505.8 | 537.3 | 539.7 |
| 67.5° | 2090.9 | 1462.3 | 319.1 | 283.6 | 310.2 | 360.3 | 448.0 | 499.7 | 504.9 | 540.9 | 540.5 |
| 70° | 1730.2 | 1164.2 | 267.4 | 261.0 | 285.2 | 345.4 | 443.1 | 483.5 | 483.9 | 507.8 | 502.1 |
| 72.5° | 1295.5 | 860.4 | 231.9 | 237.5 | 257.3 | 309.8 | 418.5 | 461.7 | 454.9 | 458.1 | 452.4 |
| 75° | 889.9 | 569.2 | 199.6 | 212.5 | 228.2 | 273.9 | 383.8 | 419.3 | 408.4 | 404.4 | 400.3 |
| 77.5° | 475.1 | 314.7 | 166.0 | 187.8 | 198.3 | 236.7 | 334.9 | 369.2 | 357.9 | 342.2 | 336.9 |
| 80° | 192.3 | 148.3 | 133.7 | 155.5 | 161.6 | 190.7 | 278.7 | 300.1 | 291.7 | 264.2 | 255.3 |
| 82.5° | 96.5 | 88.9 | 105.0 | 122.4 | 122.8 | 136.1 | 207.2 | 227.4 | 208.4 | 174.9 | 167.2 |
| 85° | 50.5 | 52.1 | 72.3 | 86.0 | 75.9 | 73.5 | 124.4 | 137.7 | 126.4 | 109.9 | 99.0 |
| 87.5° | 18.2 | 21.0 | 38.0 | 37.6 | 26.7 | 14.1 | 27.5 | 13.3 | 7.3 | 4.4 | 5.7 |
| 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)