

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: P458655

Luminaire Tested: **GLAN-SA2A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8548 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

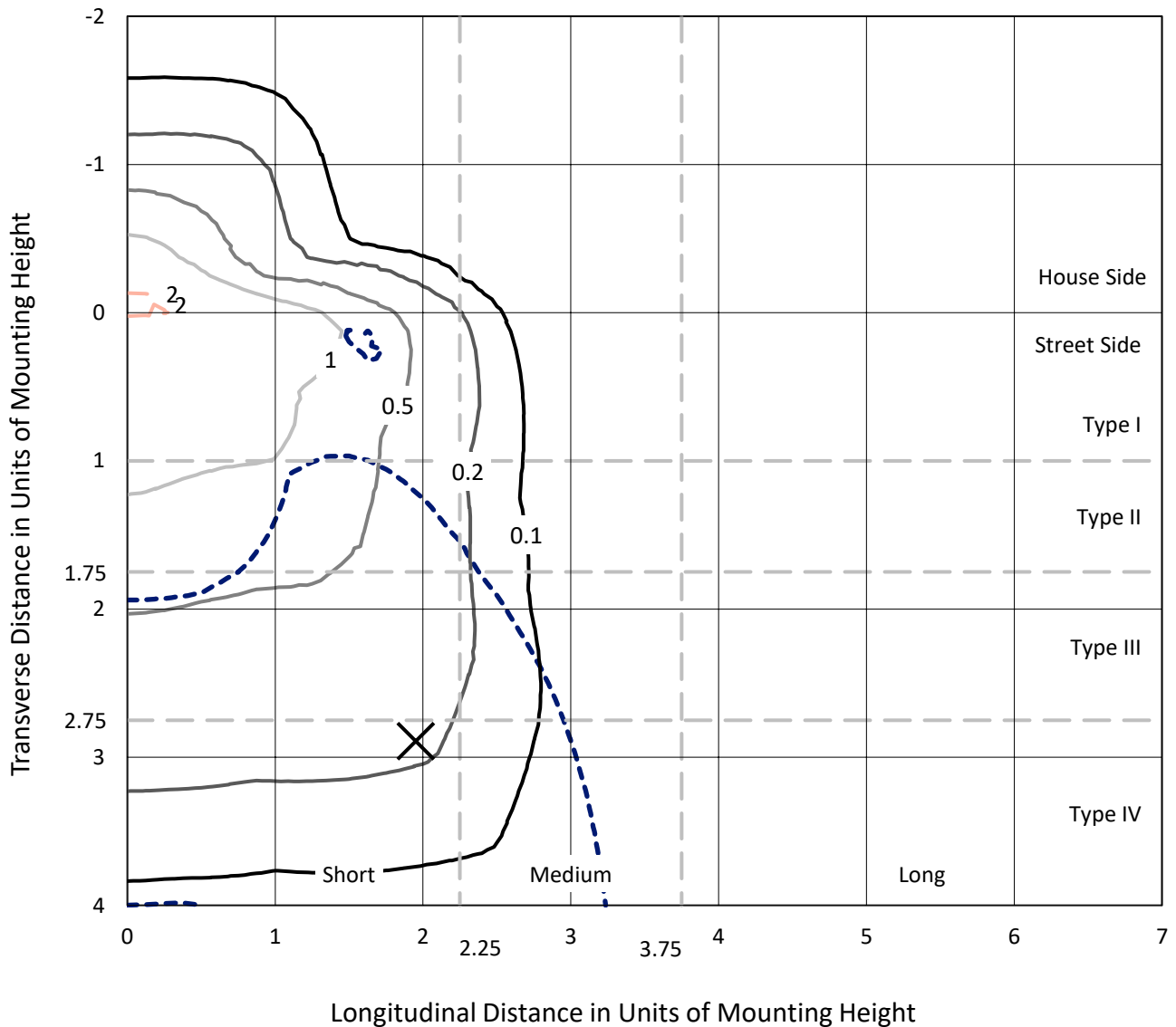
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

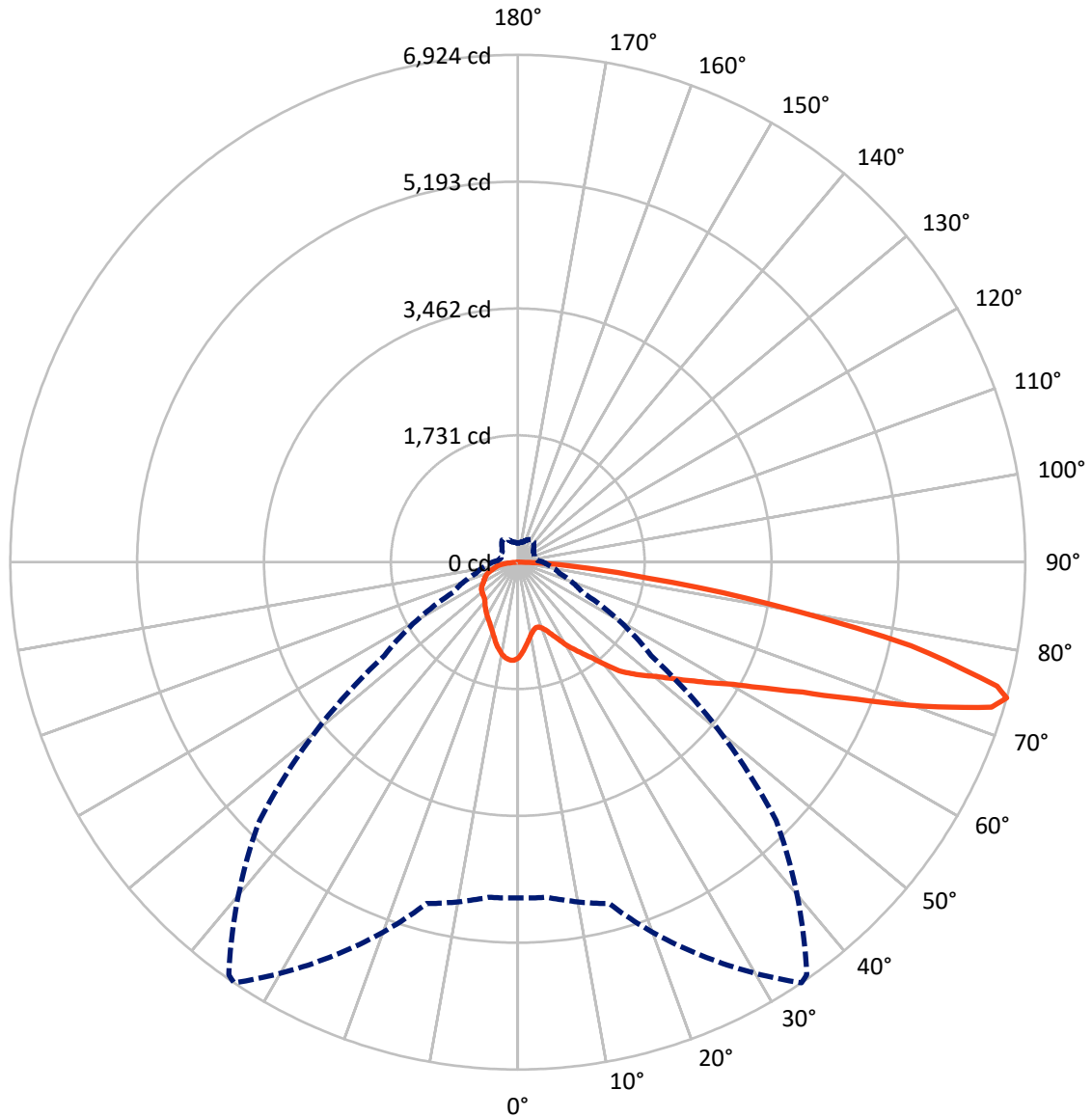
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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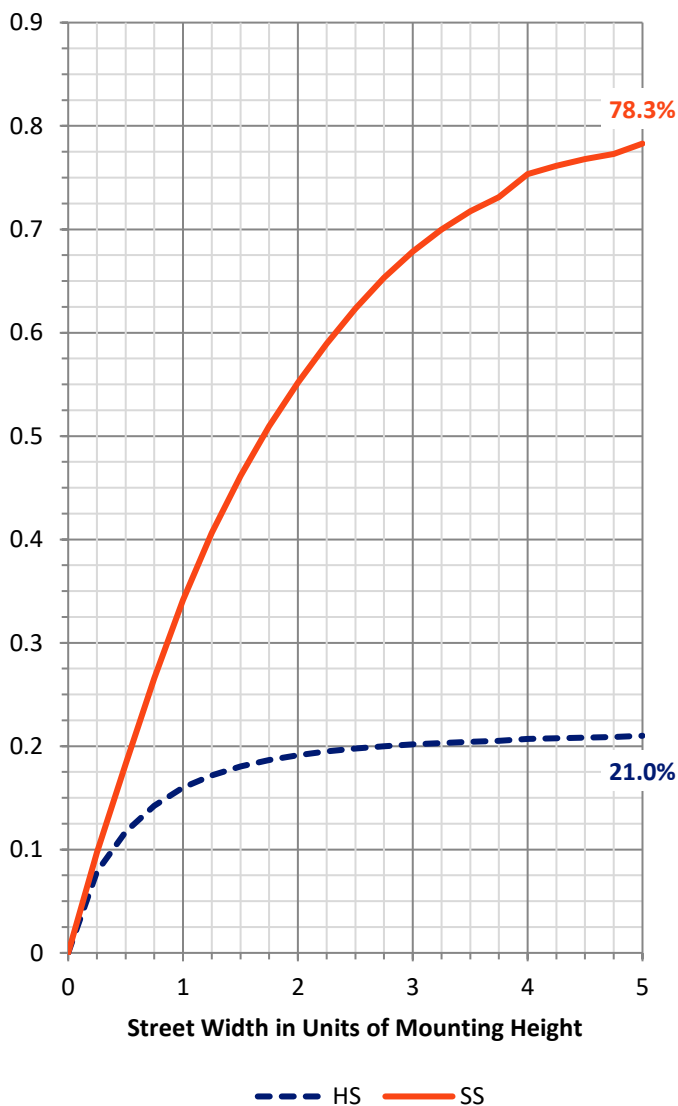
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1819.1 | 0.0 | 1819.1 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 6728.9 | 0.0 | 6728.9 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 8548.0 | 0.0 | 8548.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.7 | 1.4 |
| 10°-20° | 324.9 | 3.8 |
| 20°-30° | 535.7 | 6.3 |
| 30°-40° | 802.4 | 9.4 |
| 40°-50° | 1166.5 | 13.6 |
| 50°-60° | 1629.3 | 19.1 |
| 60°-70° | 2039.9 | 23.9 |
| 70°-80° | 1686.8 | 19.7 |
| 80°-90° | 243.7 | 2.9 |
| 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° | 8548.0 | 100.0 |
| 0°-180° | 8548.0 | 100.0 |

Coefficient of Utilization



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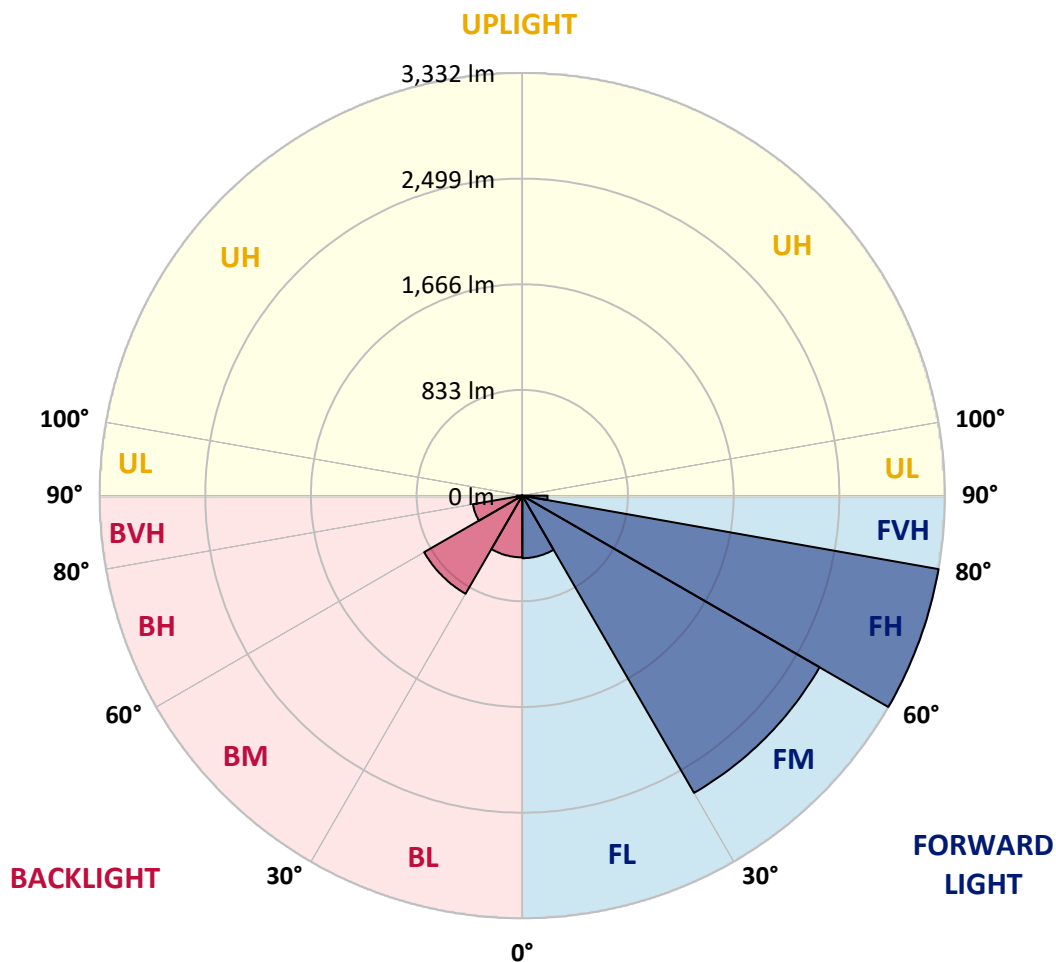
CATALOG NUMBER: GLAN-SA2A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 492.8 | 5.8 | | | |
| FM (30°-60°) | 2704.9 | 31.6 | | | |
| FH (60°-80°) | 3331.6 | 39.0 | | | G2/5000 |
| FVH (80°-90°) | 199.7 | 2.3 | | | G2/225 |
| BL (0°-30°) | 486.6 | 5.7 | B1/500 | | |
| BM (30°-60°) | 893.4 | 10.5 | B1/1000 | | |
| BH (60°-80°) | 395.1 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 44.1 | 0.5 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 |
| 2.5° | 1206.1 | 1212.3 | 1215.6 | 1227.4 | 1230.3 | 1234.1 | 1244.0 | 1257.3 | 1274.3 | 1289.5 | 1302.7 |
| 5° | 1105.7 | 1115.2 | 1120.9 | 1131.3 | 1151.7 | 1153.6 | 1180.1 | 1210.4 | 1245.0 | 1277.2 | 1303.7 |
| 7.5° | 1010.6 | 1021.0 | 1025.7 | 1044.7 | 1071.6 | 1075.9 | 1114.7 | 1162.6 | 1220.3 | 1269.1 | 1309.8 |
| 10° | 939.1 | 944.3 | 954.7 | 968.9 | 1001.1 | 1003.9 | 1054.6 | 1118.5 | 1193.4 | 1265.3 | 1320.3 |
| 12.5° | 900.2 | 903.1 | 905.4 | 920.6 | 952.3 | 956.6 | 1009.6 | 1082.1 | 1172.0 | 1268.2 | 1337.3 |
| 15° | 905.9 | 906.9 | 896.4 | 899.3 | 924.8 | 931.0 | 983.6 | 1057.9 | 1158.8 | 1275.3 | 1362.9 |
| 17.5° | 953.7 | 950.4 | 924.8 | 911.6 | 929.6 | 932.4 | 978.4 | 1048.4 | 1152.6 | 1288.5 | 1389.4 |
| 20° | 1029.0 | 1024.3 | 980.3 | 950.9 | 961.3 | 963.7 | 995.4 | 1055.5 | 1158.8 | 1310.3 | 1430.6 |
| 22.5° | 1122.8 | 1120.9 | 1054.1 | 1018.6 | 1018.1 | 1018.1 | 1034.7 | 1081.1 | 1177.3 | 1340.2 | 1473.7 |
| 25° | 1254.0 | 1244.0 | 1156.9 | 1111.0 | 1098.2 | 1097.2 | 1095.3 | 1123.3 | 1200.9 | 1371.9 | 1524.8 |
| 27.5° | 1388.5 | 1371.4 | 1293.7 | 1223.2 | 1195.7 | 1192.4 | 1180.1 | 1182.9 | 1231.2 | 1407.9 | 1583.1 |
| 30° | 1509.2 | 1498.3 | 1425.4 | 1347.3 | 1314.6 | 1307.0 | 1272.9 | 1257.3 | 1281.9 | 1472.7 | 1675.9 |
| 32.5° | 1601.6 | 1594.9 | 1538.1 | 1467.1 | 1418.8 | 1417.3 | 1367.6 | 1354.8 | 1361.0 | 1551.4 | 1782.0 |
| 35° | 1676.4 | 1678.7 | 1649.9 | 1588.3 | 1532.9 | 1524.8 | 1491.7 | 1475.6 | 1457.6 | 1665.0 | 1915.5 |
| 37.5° | 1778.7 | 1783.9 | 1782.0 | 1728.9 | 1661.2 | 1663.1 | 1655.5 | 1629.0 | 1581.2 | 1791.9 | 2063.7 |
| 40° | 1891.4 | 1895.2 | 1894.7 | 1874.3 | 1838.8 | 1840.7 | 1837.9 | 1807.5 | 1736.0 | 1953.4 | 2228.5 |
| 42.5° | 2047.2 | 2029.2 | 1982.3 | 2002.7 | 2023.5 | 2032.5 | 2051.9 | 2023.0 | 1925.0 | 2125.8 | 2383.4 |
| 45° | 2221.4 | 2187.3 | 2081.3 | 2090.7 | 2167.9 | 2185.0 | 2292.0 | 2252.2 | 2130.0 | 2323.7 | 2565.7 |
| 47.5° | 2331.3 | 2297.7 | 2208.2 | 2206.3 | 2308.6 | 2325.1 | 2514.6 | 2499.9 | 2316.6 | 2537.3 | 2788.3 |
| 50° | 2429.3 | 2424.6 | 2323.7 | 2347.9 | 2447.8 | 2472.4 | 2757.0 | 2743.3 | 2502.7 | 2789.2 | 3030.7 |
| 52.5° | 2574.7 | 2536.3 | 2455.8 | 2505.6 | 2637.7 | 2669.9 | 2997.6 | 2957.3 | 2673.7 | 3011.8 | 3266.1 |
| 55° | 2640.1 | 2631.1 | 2626.3 | 2669.4 | 2850.8 | 2874.0 | 3231.5 | 3139.2 | 2819.5 | 3200.3 | 3445.1 |
| 57.5° | 2814.8 | 2798.2 | 2845.1 | 2874.5 | 3101.8 | 3137.3 | 3475.9 | 3329.1 | 2947.4 | 3349.9 | 3532.2 |
| 60° | 3041.2 | 3032.2 | 3075.2 | 3128.3 | 3382.1 | 3436.1 | 3754.3 | 3491.0 | 3050.2 | 3425.2 | 3484.4 |
| 62.5° | 3379.3 | 3378.3 | 3370.3 | 3483.9 | 3779.4 | 3829.1 | 4074.0 | 3648.7 | 3066.3 | 3368.9 | 3237.2 |
| 65° | 3864.2 | 3847.1 | 3777.1 | 3901.1 | 4273.8 | 4332.1 | 4406.9 | 3736.8 | 2969.2 | 3079.5 | 2725.8 |
| 67.5° | 4371.4 | 4370.4 | 4313.6 | 4474.6 | 4983.7 | 5043.8 | 4823.1 | 3717.4 | 2699.7 | 2494.7 | 1935.9 |
| 70° | 4791.9 | 4771.5 | 4844.0 | 5273.0 | 5890.5 | 5960.1 | 5187.3 | 3488.7 | 2150.4 | 1647.5 | 1150.3 |
| 72.5° | 4892.7 | 4893.7 | 5044.3 | 5888.6 | 6761.4 | 6772.3 | 5318.5 | 2827.6 | 1439.1 | 908.7 | 575.4 |
| 74° | 4582.1 | 4590.1 | 4823.6 | 5919.4 | 6923.8 | 6874.6 | 4983.2 | 2222.4 | 973.2 | 593.4 | 414.8 |
| 75° | 4182.4 | 4131.7 | 4469.4 | 5714.4 | 6755.2 | 6702.2 | 4590.6 | 1783.4 | 742.5 | 474.0 | 363.2 |
| 77.5° | 2236.1 | 2287.7 | 2808.6 | 4264.3 | 5488.0 | 5426.9 | 3112.7 | 855.2 | 401.1 | 330.1 | 261.4 |
| 80° | 796.0 | 878.0 | 1234.1 | 2231.4 | 3518.5 | 3537.4 | 1485.5 | 392.1 | 282.2 | 243.4 | 184.7 |
| 82.5° | 324.9 | 333.9 | 529.9 | 990.2 | 1786.7 | 1803.8 | 606.6 | 233.0 | 201.7 | 167.6 | 110.3 |
| 85° | 126.9 | 130.7 | 234.4 | 445.1 | 762.4 | 812.1 | 209.8 | 123.1 | 124.1 | 96.1 | 56.4 |
| 87.5° | 42.6 | 48.3 | 96.1 | 148.2 | 259.0 | 253.8 | 61.1 | 36.5 | 44.5 | 41.7 | 17.5 |
| 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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 CATALOG NUMBER: GLAN-SA2A-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 | 1305.1 |
| 2.5° | 1309.4 | 1318.4 | 1324.5 | 1331.2 | 1337.3 | 1339.2 | 1337.8 | 1342.0 | 1342.5 | 1343.0 | 1343.5 |
| 5° | 1316.9 | 1329.3 | 1341.1 | 1347.7 | 1350.6 | 1348.2 | 1340.2 | 1335.9 | 1332.1 | 1329.3 | 1330.2 |
| 7.5° | 1327.4 | 1344.9 | 1355.8 | 1358.6 | 1351.0 | 1340.2 | 1320.3 | 1304.6 | 1294.7 | 1288.1 | 1287.6 |
| 10° | 1343.5 | 1360.5 | 1369.5 | 1361.5 | 1340.6 | 1314.1 | 1282.9 | 1253.5 | 1231.2 | 1224.6 | 1224.1 |
| 12.5° | 1363.8 | 1383.2 | 1382.8 | 1359.1 | 1322.6 | 1275.3 | 1224.6 | 1190.5 | 1160.2 | 1145.0 | 1151.2 |
| 15° | 1390.3 | 1405.0 | 1391.3 | 1348.7 | 1290.9 | 1226.0 | 1163.5 | 1117.1 | 1083.0 | 1066.9 | 1067.9 |
| 17.5° | 1421.1 | 1433.9 | 1397.5 | 1330.2 | 1246.4 | 1163.0 | 1090.6 | 1046.6 | 1019.6 | 1007.7 | 1006.8 |
| 20° | 1459.5 | 1463.3 | 1397.5 | 1298.0 | 1189.1 | 1089.6 | 1020.5 | 989.7 | 974.6 | 968.4 | 970.3 |
| 22.5° | 1500.7 | 1493.1 | 1389.9 | 1252.5 | 1113.8 | 1012.9 | 966.5 | 952.8 | 945.2 | 944.3 | 945.2 |
| 25° | 1547.1 | 1525.8 | 1374.2 | 1191.0 | 1035.2 | 946.6 | 919.6 | 922.0 | 923.4 | 923.4 | 926.7 |
| 27.5° | 1603.9 | 1561.3 | 1348.2 | 1113.3 | 943.3 | 885.1 | 877.5 | 894.1 | 901.6 | 903.1 | 905.4 |
| 30° | 1678.7 | 1600.1 | 1305.1 | 1016.2 | 865.2 | 829.7 | 842.9 | 865.2 | 873.7 | 878.9 | 878.0 |
| 32.5° | 1767.8 | 1642.8 | 1246.9 | 919.2 | 802.2 | 790.8 | 806.9 | 829.7 | 839.1 | 842.0 | 838.2 |
| 35° | 1872.4 | 1691.1 | 1170.1 | 828.2 | 747.3 | 753.9 | 772.8 | 779.9 | 788.5 | 788.5 | 790.4 |
| 37.5° | 1985.1 | 1729.9 | 1076.4 | 744.9 | 704.6 | 728.8 | 742.5 | 735.9 | 732.1 | 727.4 | 729.7 |
| 40° | 2099.7 | 1758.8 | 954.7 | 662.5 | 662.0 | 702.8 | 706.5 | 687.6 | 672.4 | 667.7 | 665.3 |
| 42.5° | 2199.7 | 1776.8 | 844.8 | 598.6 | 621.8 | 677.2 | 680.0 | 649.7 | 625.6 | 611.4 | 606.6 |
| 45° | 2317.6 | 1797.6 | 737.3 | 545.5 | 584.4 | 656.8 | 663.9 | 623.2 | 587.7 | 557.8 | 550.3 |
| 47.5° | 2479.0 | 1845.0 | 652.6 | 504.3 | 557.4 | 644.0 | 654.0 | 601.4 | 554.5 | 515.7 | 509.5 |
| 50° | 2661.4 | 1909.8 | 586.7 | 476.4 | 536.5 | 632.7 | 645.0 | 579.2 | 523.7 | 480.7 | 475.9 |
| 52.5° | 2828.5 | 1944.9 | 529.9 | 451.3 | 516.2 | 611.8 | 633.1 | 563.1 | 493.4 | 445.6 | 441.4 |
| 55° | 2919.9 | 1888.1 | 474.0 | 426.7 | 488.2 | 584.8 | 616.6 | 540.8 | 464.1 | 427.1 | 421.0 |
| 57.5° | 2932.2 | 1770.6 | 423.4 | 400.2 | 458.9 | 551.7 | 585.8 | 513.8 | 445.1 | 414.4 | 409.1 |
| 60° | 2837.1 | 1595.4 | 384.1 | 378.4 | 429.0 | 514.3 | 551.2 | 490.1 | 425.7 | 400.2 | 394.9 |
| 62.5° | 2600.3 | 1405.0 | 356.6 | 358.5 | 398.7 | 475.0 | 525.6 | 467.4 | 407.3 | 384.5 | 379.8 |
| 65° | 2193.0 | 1159.7 | 330.1 | 338.1 | 371.7 | 444.2 | 502.4 | 448.5 | 388.8 | 372.7 | 368.4 |
| 67.5° | 1523.4 | 837.2 | 308.3 | 316.8 | 346.2 | 412.9 | 475.4 | 428.1 | 368.0 | 359.4 | 352.8 |
| 70° | 843.4 | 515.2 | 282.7 | 292.7 | 319.6 | 377.9 | 445.1 | 397.3 | 337.6 | 333.9 | 324.4 |
| 72.5° | 443.2 | 328.2 | 253.8 | 264.7 | 283.7 | 332.9 | 398.7 | 363.7 | 307.8 | 291.7 | 279.4 |
| 74° | 346.2 | 269.0 | 234.4 | 245.8 | 258.6 | 306.4 | 371.3 | 339.5 | 286.5 | 267.6 | 258.1 |
| 75° | 301.7 | 239.6 | 217.8 | 232.5 | 243.9 | 288.4 | 350.0 | 322.5 | 274.7 | 256.7 | 248.1 |
| 77.5° | 213.1 | 179.5 | 178.1 | 195.6 | 201.7 | 252.9 | 315.4 | 293.6 | 244.8 | 225.9 | 217.8 |
| 80° | 149.6 | 134.5 | 141.1 | 152.0 | 160.5 | 223.5 | 292.7 | 253.8 | 200.8 | 178.5 | 175.7 |
| 82.5° | 97.6 | 88.1 | 100.9 | 110.8 | 113.7 | 164.8 | 236.3 | 192.7 | 146.3 | 118.9 | 110.3 |
| 85° | 45.0 | 44.0 | 57.8 | 56.4 | 55.9 | 80.5 | 140.2 | 112.7 | 84.3 | 63.0 | 59.2 |
| 87.5° | 11.4 | 10.9 | 14.2 | 11.8 | 14.2 | 12.3 | 12.8 | 3.3 | 0.5 | 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)