

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: P450736

Luminaire Tested: **GLAN-SA1C-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7280 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

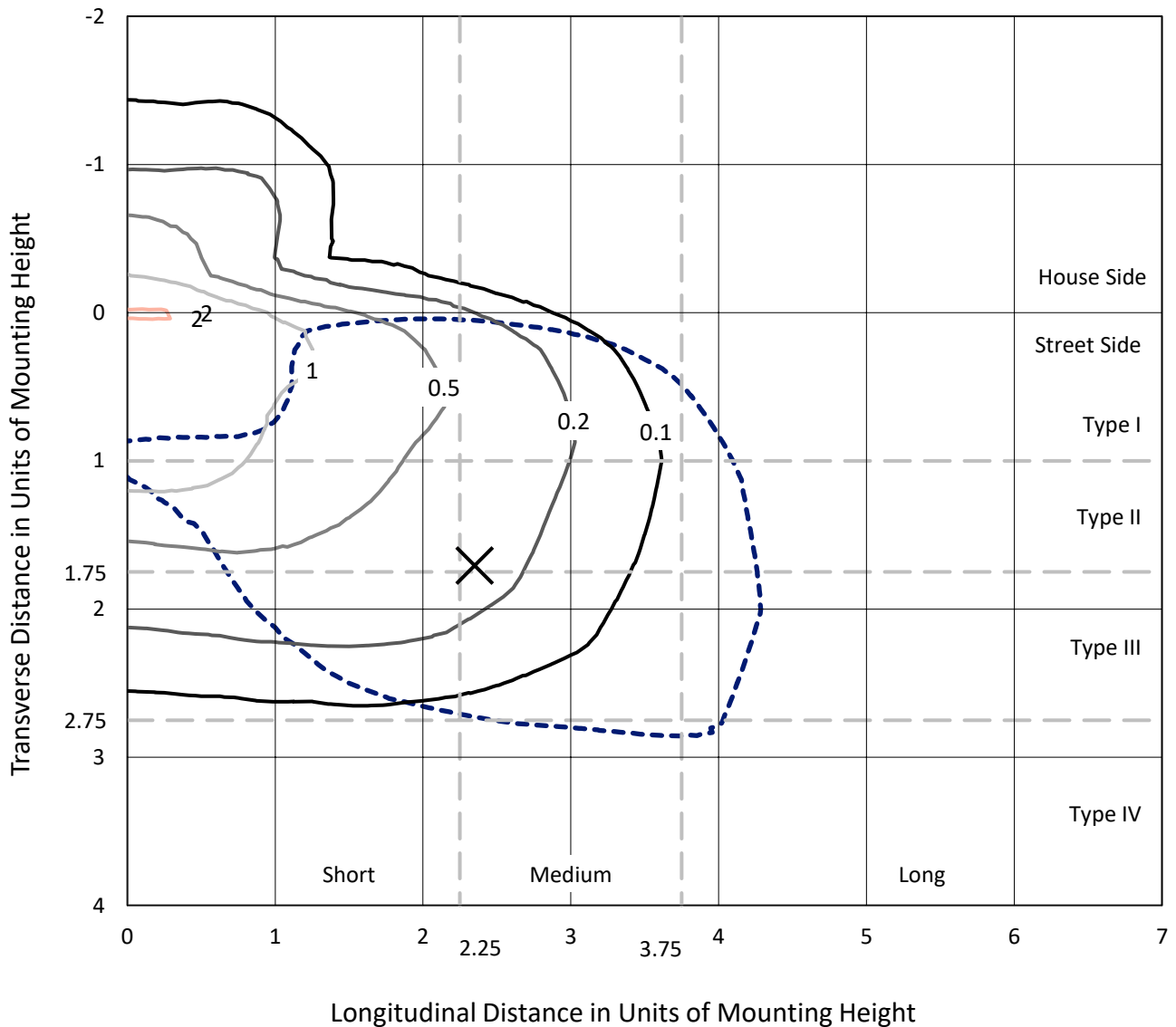
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

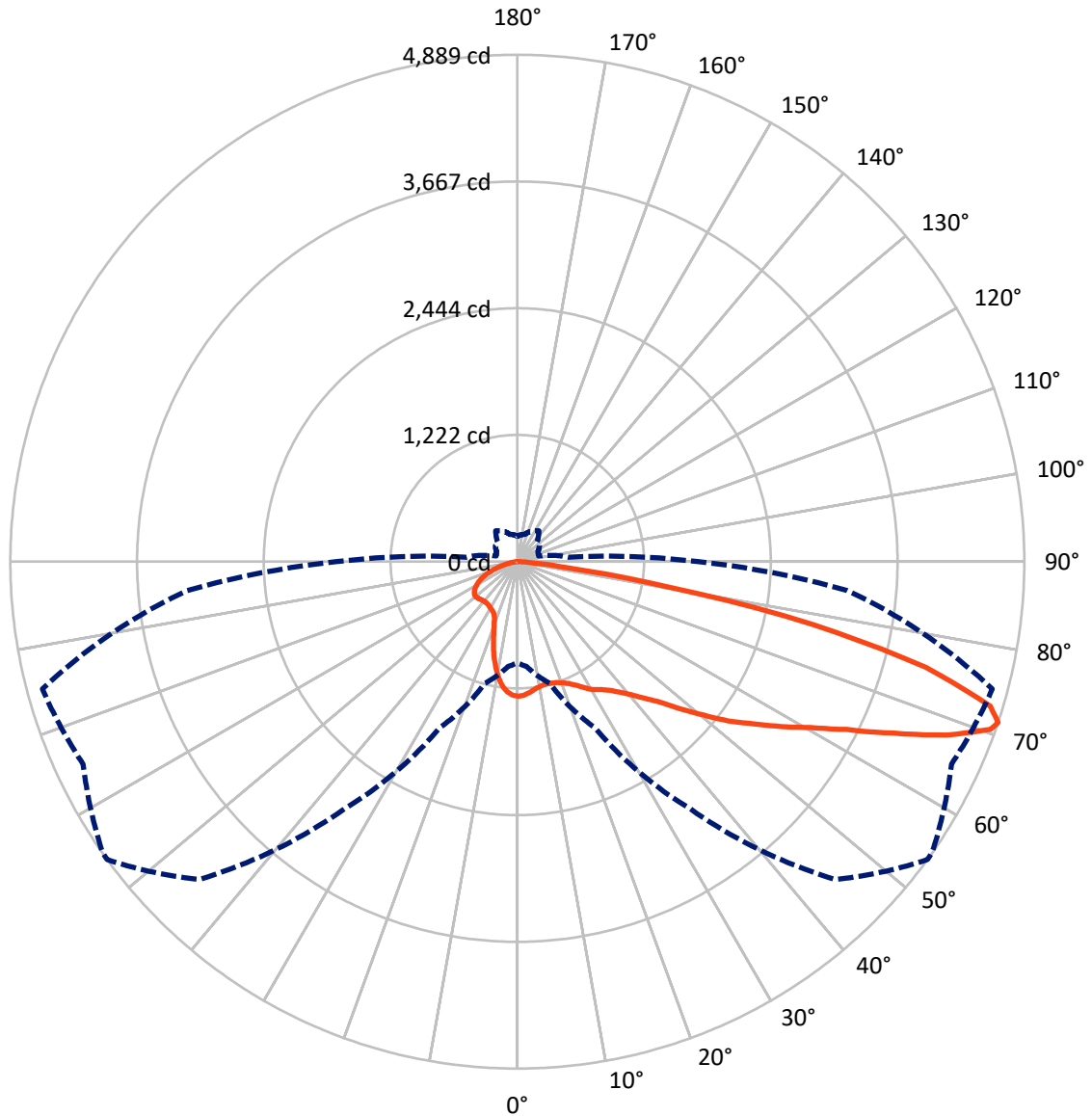
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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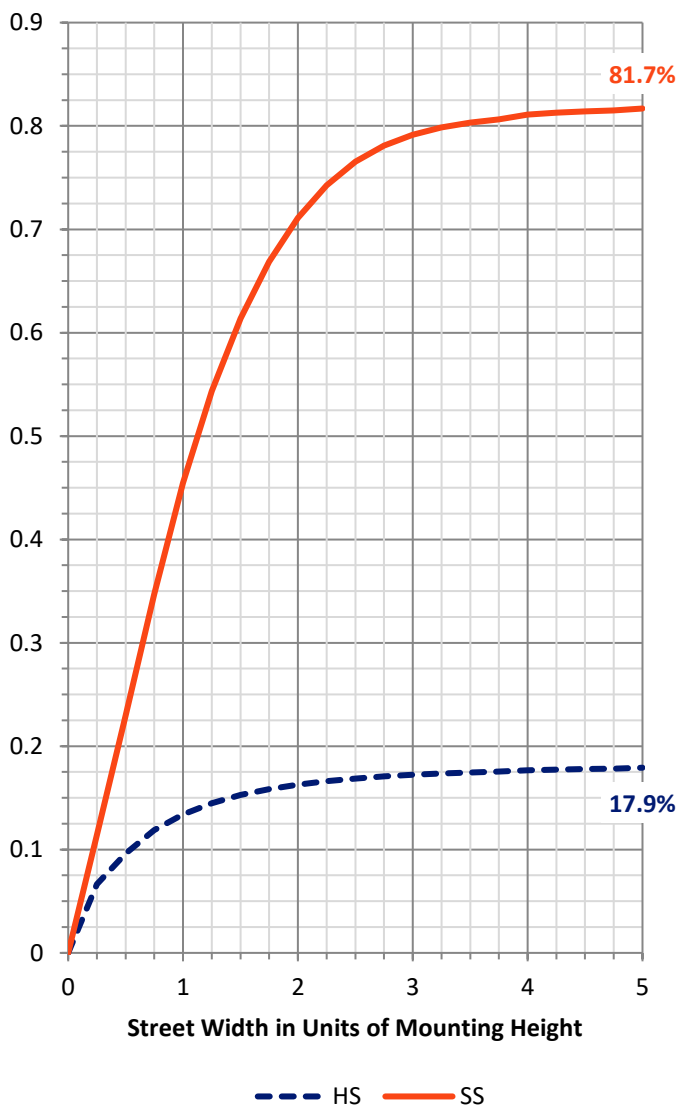
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1314.4 | 0.0 | 1314.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 5965.6 | 0.0 | 5965.6 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 7280.0 | 0.0 | 7280.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.7 | 1.6 |
| 10°-20° | 305.6 | 4.2 |
| 20°-30° | 508.9 | 7.0 |
| 30°-40° | 752.5 | 10.3 |
| 40°-50° | 1059.9 | 14.6 |
| 50°-60° | 1419.3 | 19.5 |
| 60°-70° | 1788.9 | 24.6 |
| 70°-80° | 1221.8 | 16.8 |
| 80°-90° | 107.4 | 1.5 |
| 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° | 7280.0 | 100.0 |
| 0°-180° | 7280.0 | 100.0 |

Coefficient of Utilization



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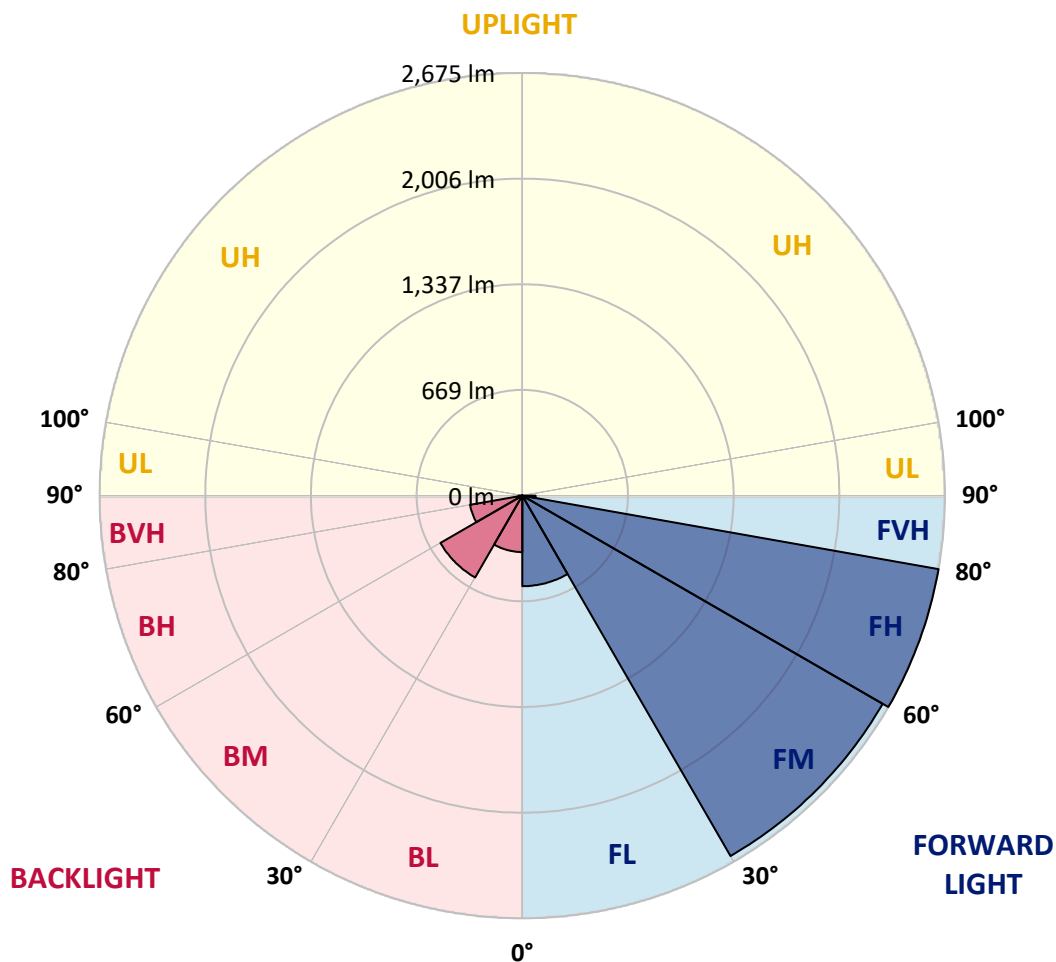
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 573.1 | 7.9 | | | |
| FM (30°-60°) | 2633.6 | 36.2 | | | |
| FH (60°-80°) | 2675.0 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 84.0 | 1.2 | | | G1/100 |
| BL (0°-30°) | 357.2 | 4.9 | B1/500 | | |
| BM (30°-60°) | 598.0 | 8.2 | B1/1000 | | |
| BH (60°-80°) | 335.7 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.5 | 0.3 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 |
| 2.5° | 1254.8 | 1260.7 | 1262.3 | 1266.2 | 1274.5 | 1281.2 | 1287.8 | 1287.1 | 1296.5 | 1300.4 | 1304.0 |
| 5° | 1199.0 | 1200.6 | 1206.4 | 1214.3 | 1228.9 | 1247.3 | 1265.4 | 1265.8 | 1289.0 | 1307.5 | 1316.6 |
| 7.5° | 1158.1 | 1163.2 | 1167.1 | 1175.4 | 1190.7 | 1210.8 | 1239.5 | 1241.8 | 1283.1 | 1319.7 | 1339.0 |
| 10° | 1131.3 | 1137.2 | 1141.6 | 1151.8 | 1167.1 | 1189.5 | 1220.6 | 1224.9 | 1278.8 | 1339.0 | 1372.8 |
| 12.5° | 1107.0 | 1112.9 | 1116.8 | 1130.2 | 1150.2 | 1177.7 | 1212.7 | 1217.9 | 1280.4 | 1361.4 | 1409.8 |
| 15° | 1121.9 | 1126.6 | 1125.0 | 1129.0 | 1142.4 | 1173.8 | 1215.9 | 1221.0 | 1286.3 | 1383.0 | 1446.3 |
| 17.5° | 1188.4 | 1192.3 | 1179.3 | 1164.4 | 1158.1 | 1181.3 | 1225.7 | 1231.2 | 1298.1 | 1405.4 | 1483.7 |
| 20° | 1286.3 | 1296.9 | 1268.6 | 1235.2 | 1204.9 | 1208.0 | 1246.2 | 1252.1 | 1314.6 | 1427.8 | 1521.8 |
| 22.5° | 1413.7 | 1421.5 | 1386.9 | 1331.9 | 1276.1 | 1247.3 | 1276.8 | 1280.4 | 1339.4 | 1456.9 | 1563.5 |
| 25° | 1563.5 | 1568.2 | 1520.3 | 1449.5 | 1368.9 | 1314.6 | 1318.9 | 1325.2 | 1380.3 | 1490.0 | 1600.5 |
| 27.5° | 1709.0 | 1723.9 | 1668.5 | 1582.0 | 1475.8 | 1385.4 | 1376.7 | 1380.7 | 1424.7 | 1508.5 | 1626.0 |
| 30° | 1881.6 | 1880.5 | 1821.9 | 1721.6 | 1585.5 | 1462.4 | 1431.4 | 1430.6 | 1448.7 | 1517.5 | 1644.5 |
| 32.5° | 2019.3 | 2035.4 | 1978.0 | 1868.7 | 1711.0 | 1542.3 | 1469.1 | 1467.6 | 1467.2 | 1533.2 | 1672.0 |
| 35° | 2175.8 | 2178.1 | 2125.4 | 2015.3 | 1846.6 | 1642.5 | 1521.8 | 1514.0 | 1504.9 | 1567.0 | 1709.4 |
| 37.5° | 2315.8 | 2326.8 | 2278.4 | 2154.9 | 1979.9 | 1746.8 | 1594.2 | 1589.1 | 1561.5 | 1625.6 | 1769.2 |
| 40° | 2425.1 | 2433.3 | 2404.2 | 2286.7 | 2111.3 | 1859.2 | 1686.2 | 1676.8 | 1643.3 | 1721.6 | 1849.0 |
| 42.5° | 2460.9 | 2477.8 | 2489.2 | 2431.4 | 2262.3 | 1992.5 | 1799.4 | 1787.7 | 1762.1 | 1867.1 | 1941.0 |
| 45° | 2463.6 | 2490.4 | 2550.5 | 2553.3 | 2414.1 | 2152.2 | 1931.6 | 1923.3 | 1921.4 | 2053.5 | 2070.4 |
| 47.5° | 2442.8 | 2469.9 | 2571.0 | 2625.6 | 2549.4 | 2313.4 | 2122.3 | 2109.3 | 2110.5 | 2283.9 | 2215.5 |
| 50° | 2392.5 | 2424.7 | 2547.4 | 2672.0 | 2655.1 | 2480.9 | 2323.6 | 2319.3 | 2343.7 | 2547.0 | 2366.1 |
| 52.5° | 2297.7 | 2336.6 | 2523.0 | 2701.1 | 2733.8 | 2625.2 | 2552.5 | 2540.3 | 2602.0 | 2832.5 | 2530.9 |
| 55° | 2035.4 | 2094.0 | 2433.7 | 2717.3 | 2808.5 | 2763.3 | 2758.6 | 2780.6 | 2862.4 | 3143.9 | 2712.2 |
| 57.5° | 1898.5 | 1942.6 | 2239.9 | 2720.0 | 2902.9 | 2923.7 | 2999.2 | 3004.7 | 3147.9 | 3474.6 | 2917.0 |
| 60° | 1823.8 | 1862.8 | 2133.7 | 2701.9 | 3034.6 | 3122.3 | 3245.4 | 3265.0 | 3426.7 | 3832.9 | 3129.4 |
| 62.5° | 1758.6 | 1792.0 | 2070.0 | 2639.4 | 3183.2 | 3416.8 | 3564.3 | 3573.7 | 3743.2 | 4228.5 | 3339.0 |
| 65° | 1604.8 | 1642.9 | 1941.8 | 2576.9 | 3311.4 | 3784.9 | 3987.4 | 3976.4 | 4080.2 | 4569.8 | 3470.3 |
| 67.5° | 1397.6 | 1445.9 | 1702.3 | 2361.0 | 3374.8 | 4187.2 | 4464.0 | 4450.3 | 4412.9 | 4793.6 | 3508.1 |
| 70° | 1132.9 | 1158.9 | 1396.0 | 1987.8 | 3121.9 | 4398.3 | 4840.3 | 4825.8 | 4619.0 | 4823.0 | 3329.5 |
| 71° | 974.8 | 1015.3 | 1215.5 | 1765.6 | 2911.5 | 4333.9 | 4888.7 | 4884.8 | 4619.3 | 4741.6 | 3195.0 |
| 72.5° | 760.9 | 785.7 | 962.6 | 1368.1 | 2474.6 | 3967.4 | 4769.2 | 4784.1 | 4519.1 | 4515.5 | 2917.8 |
| 75° | 481.3 | 492.3 | 604.0 | 805.3 | 1357.8 | 2809.7 | 4071.2 | 4111.7 | 4012.6 | 3696.0 | 2169.9 |
| 77.5° | 279.6 | 293.7 | 361.8 | 474.6 | 586.7 | 1525.0 | 2913.1 | 2957.1 | 2788.0 | 2035.0 | 888.3 |
| 80° | 162.8 | 178.5 | 238.3 | 275.7 | 269.4 | 565.9 | 1483.3 | 1558.4 | 1207.2 | 514.0 | 249.3 |
| 82.5° | 90.4 | 101.1 | 167.5 | 167.9 | 143.5 | 184.8 | 466.8 | 488.4 | 344.5 | 207.2 | 101.8 |
| 85° | 65.7 | 74.3 | 108.1 | 97.9 | 68.8 | 79.4 | 162.4 | 170.3 | 139.2 | 87.3 | 33.0 |
| 87.5° | 23.2 | 33.0 | 59.4 | 47.2 | 18.9 | 16.5 | 46.8 | 38.1 | 35.4 | 24.4 | 7.5 |
| 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-SA1C-740-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 | 1298.9 |
| 2.5° | 1305.9 | 1306.7 | 1302.8 | 1295.7 | 1288.6 | 1279.6 | 1269.4 | 1261.5 | 1258.0 | 1257.6 | 1257.2 |
| 5° | 1320.1 | 1322.1 | 1307.1 | 1285.1 | 1260.7 | 1230.8 | 1205.3 | 1176.2 | 1168.7 | 1156.9 | 1160.4 |
| 7.5° | 1342.9 | 1341.7 | 1312.2 | 1265.4 | 1208.4 | 1145.1 | 1091.6 | 1060.6 | 1028.3 | 1019.3 | 1019.7 |
| 10° | 1375.5 | 1368.1 | 1312.2 | 1225.3 | 1130.2 | 1036.2 | 961.5 | 914.3 | 888.7 | 867.5 | 859.6 |
| 12.5° | 1410.1 | 1391.3 | 1299.6 | 1169.1 | 1029.5 | 914.3 | 834.1 | 770.4 | 753.8 | 736.5 | 736.9 |
| 15° | 1443.2 | 1411.7 | 1274.9 | 1090.1 | 921.0 | 784.1 | 706.3 | 668.1 | 663.0 | 665.0 | 664.6 |
| 17.5° | 1473.1 | 1426.3 | 1237.1 | 1002.0 | 794.3 | 672.4 | 631.1 | 633.9 | 647.7 | 657.5 | 658.7 |
| 20° | 1503.3 | 1434.9 | 1180.9 | 884.0 | 674.8 | 604.8 | 606.4 | 628.0 | 648.8 | 662.2 | 664.2 |
| 22.5° | 1532.0 | 1438.9 | 1114.8 | 770.0 | 588.3 | 576.1 | 599.3 | 622.5 | 642.9 | 655.9 | 657.9 |
| 25° | 1550.9 | 1429.8 | 1021.2 | 650.8 | 545.8 | 565.9 | 590.2 | 609.9 | 627.2 | 640.6 | 643.7 |
| 27.5° | 1556.0 | 1400.7 | 905.2 | 554.5 | 526.2 | 556.0 | 578.5 | 593.0 | 606.4 | 619.0 | 621.3 |
| 30° | 1553.3 | 1357.8 | 777.8 | 497.8 | 514.7 | 544.6 | 561.9 | 572.6 | 588.7 | 598.5 | 600.5 |
| 32.5° | 1549.0 | 1307.9 | 644.9 | 467.6 | 505.3 | 534.0 | 544.2 | 553.7 | 553.3 | 549.4 | 552.1 |
| 35° | 1550.5 | 1248.1 | 537.2 | 449.5 | 497.1 | 526.2 | 534.8 | 523.0 | 489.2 | 487.6 | 486.0 |
| 37.5° | 1558.8 | 1189.1 | 458.9 | 436.9 | 492.7 | 525.0 | 529.7 | 475.4 | 445.5 | 431.8 | 428.2 |
| 40° | 1580.0 | 1120.3 | 407.4 | 427.4 | 492.3 | 534.0 | 506.5 | 451.4 | 394.0 | 367.3 | 365.3 |
| 42.5° | 1608.3 | 1052.7 | 375.9 | 421.5 | 497.1 | 547.8 | 497.1 | 417.6 | 355.1 | 339.4 | 337.0 |
| 45° | 1650.4 | 975.2 | 358.6 | 418.8 | 504.1 | 552.9 | 493.9 | 392.8 | 339.4 | 326.8 | 326.8 |
| 47.5° | 1698.0 | 901.3 | 349.2 | 416.8 | 513.2 | 549.4 | 466.0 | 385.0 | 331.9 | 333.5 | 340.9 |
| 50° | 1745.2 | 837.2 | 342.1 | 412.5 | 521.0 | 547.4 | 454.6 | 384.6 | 333.9 | 353.9 | 367.3 |
| 52.5° | 1799.8 | 792.0 | 333.5 | 405.4 | 521.0 | 534.8 | 451.0 | 392.4 | 339.4 | 345.3 | 351.2 |
| 55° | 1865.9 | 777.8 | 322.5 | 390.1 | 511.6 | 503.3 | 449.1 | 403.9 | 343.3 | 329.5 | 331.9 |
| 57.5° | 1953.2 | 800.6 | 311.8 | 370.8 | 490.0 | 470.7 | 448.3 | 407.0 | 334.3 | 322.8 | 320.5 |
| 60° | 2054.7 | 845.9 | 308.7 | 351.2 | 460.5 | 442.8 | 443.6 | 398.0 | 321.7 | 309.9 | 311.8 |
| 62.5° | 2125.8 | 873.0 | 306.7 | 336.2 | 428.2 | 412.1 | 432.2 | 386.9 | 316.2 | 305.9 | 307.9 |
| 65° | 2125.8 | 840.0 | 288.6 | 313.4 | 386.6 | 375.1 | 418.4 | 373.2 | 309.1 | 297.3 | 295.3 |
| 67.5° | 2045.2 | 743.6 | 261.1 | 279.2 | 340.5 | 333.1 | 399.1 | 356.7 | 298.5 | 289.4 | 284.7 |
| 70° | 1835.2 | 563.9 | 226.5 | 239.1 | 282.3 | 289.0 | 374.4 | 334.3 | 280.8 | 269.8 | 262.7 |
| 71° | 1742.8 | 491.2 | 212.0 | 218.6 | 259.9 | 269.8 | 362.6 | 324.8 | 272.9 | 257.2 | 244.6 |
| 72.5° | 1564.7 | 413.7 | 189.9 | 192.7 | 222.2 | 239.9 | 337.8 | 306.7 | 258.0 | 235.5 | 221.4 |
| 75° | 1188.8 | 302.0 | 153.0 | 151.4 | 164.4 | 190.3 | 285.9 | 273.3 | 226.1 | 195.8 | 187.6 |
| 77.5° | 513.6 | 164.4 | 114.4 | 115.6 | 111.7 | 144.3 | 224.9 | 234.8 | 193.9 | 159.3 | 151.8 |
| 80° | 155.7 | 94.8 | 78.3 | 79.8 | 74.7 | 96.7 | 158.5 | 184.0 | 155.7 | 123.9 | 113.6 |
| 82.5° | 79.8 | 56.6 | 53.5 | 52.7 | 47.6 | 54.7 | 95.9 | 125.8 | 111.3 | 77.5 | 68.4 |
| 85° | 34.6 | 30.3 | 26.3 | 25.6 | 22.4 | 19.7 | 34.2 | 62.9 | 59.0 | 43.3 | 41.3 |
| 87.5° | 8.7 | 7.9 | 5.1 | 4.7 | 2.8 | 0.4 | 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)