

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: McGRAW-EDISON

Report Number: P939281

Luminaire Tested: **GALN-SB1D-760-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7518 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

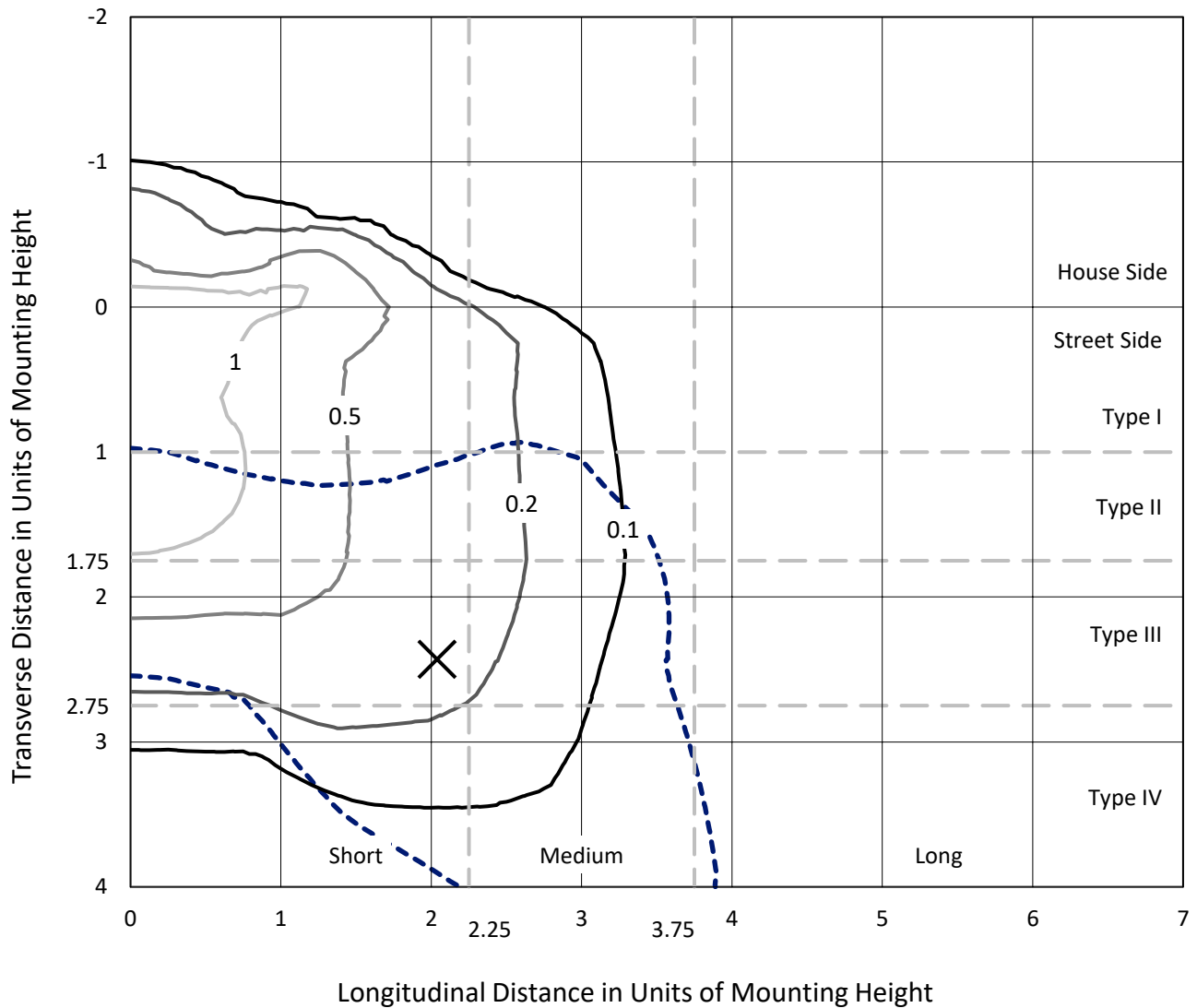
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

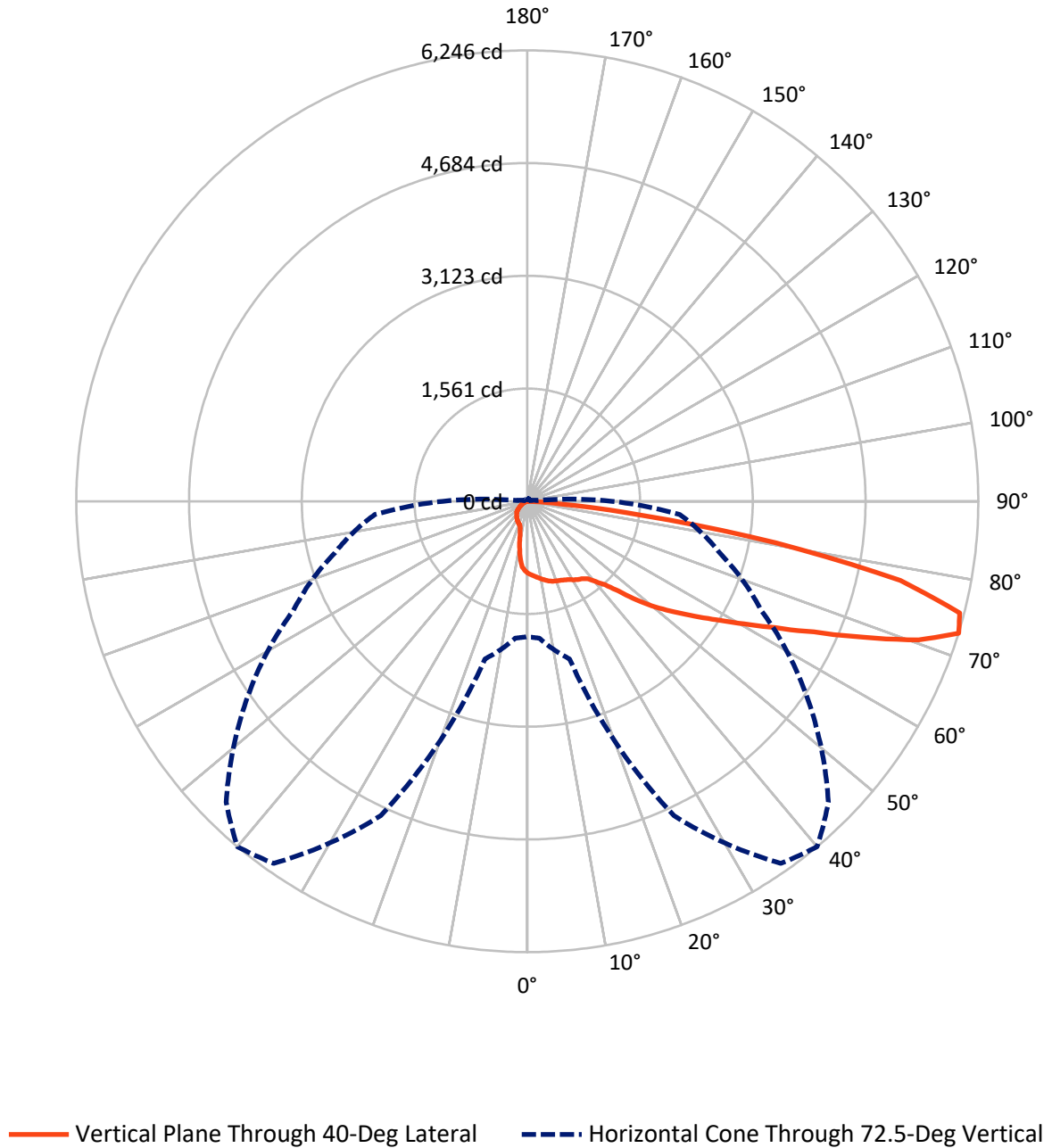
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 970.9 | 0.0 | 970.9 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 6547.1 | 0.0 | 6547.1 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 7518.0 | 0.0 | 7518.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.9 | 1.2 |
| 10°-20° | 246.9 | 3.3 |
| 20°-30° | 399.5 | 5.3 |
| 30°-40° | 589.8 | 7.8 |
| 40°-50° | 992.6 | 13.2 |
| 50°-60° | 1541.2 | 20.5 |
| 60°-70° | 1928.5 | 25.7 |
| 70°-80° | 1578.9 | 21.0 |
| 80°-90° | 149.7 | 2.0 |
| 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° | 7518.0 | 100.0 |
| 0°-180° | 7518.0 | 100.0 |

Coefficient of Utilization



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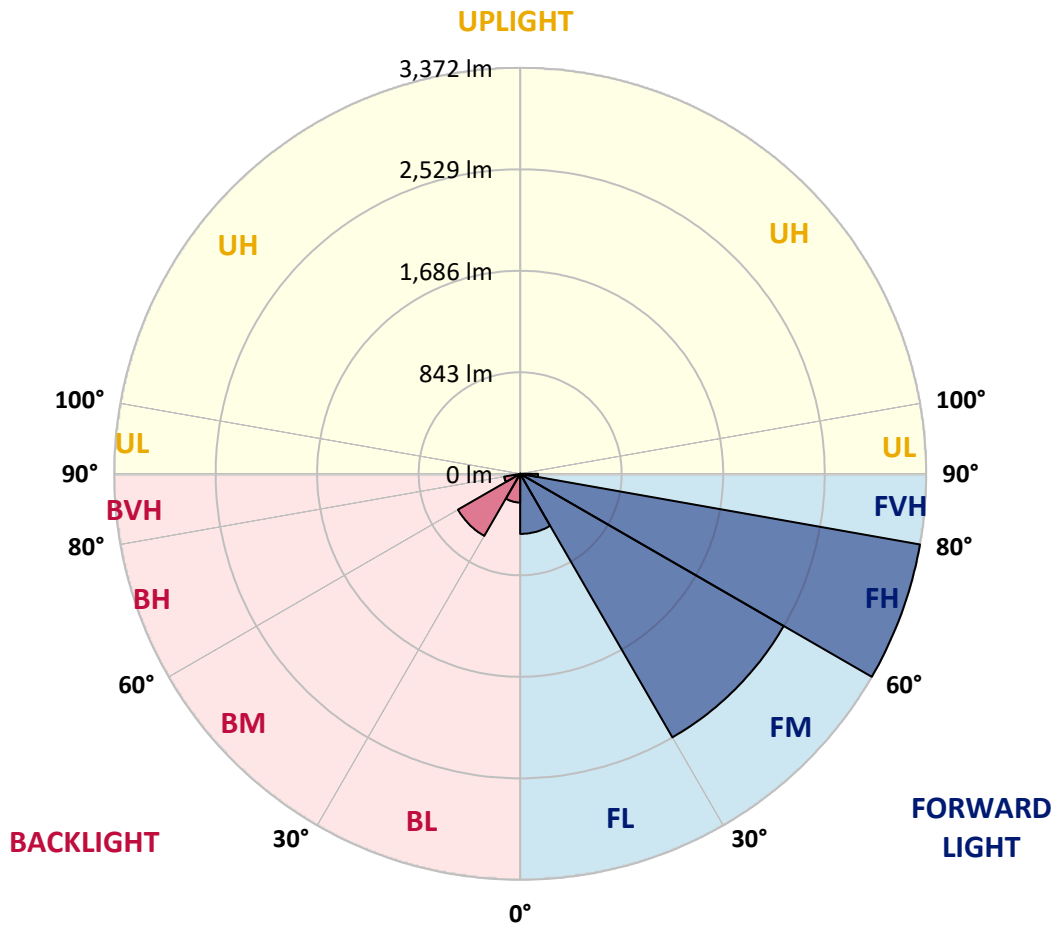
CATALOG NUMBER: GALN-SB1D-760-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 499.0 | 6.6 | | | |
| FM (30°-60°) | 2527.4 | 33.6 | | | |
| FH (60°-80°) | 3372.2 | 44.9 | | | G2/5000 |
| FVH (80°-90°) | 148.6 | 2.0 | | | G2/225 |
| BL (0°-30°) | 238.3 | 3.2 | B1/500 | | |
| BM (30°-60°) | 596.2 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 135.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 0.0 | | | 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° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 |
| 2.5° | 1025.5 | 1029.4 | 1027.2 | 1022.6 | 1021.5 | 1019.2 | 1016.4 | 1015.3 | 1011.3 | 1007.9 |
| 5° | 1054.3 | 1058.3 | 1055.5 | 1049.2 | 1046.4 | 1043.6 | 1039.6 | 1036.2 | 1028.3 | 1020.9 |
| 7.5° | 1086.0 | 1089.4 | 1086.0 | 1077.0 | 1072.5 | 1069.1 | 1063.4 | 1058.3 | 1049.2 | 1038.5 |
| 10° | 1121.1 | 1124.0 | 1118.9 | 1107.0 | 1099.6 | 1094.5 | 1089.4 | 1083.8 | 1075.3 | 1063.4 |
| 12.5° | 1154.0 | 1157.4 | 1149.5 | 1135.3 | 1126.8 | 1121.7 | 1116.1 | 1111.5 | 1103.0 | 1091.7 |
| 15° | 1184.0 | 1189.1 | 1175.5 | 1160.2 | 1150.6 | 1146.6 | 1141.0 | 1138.1 | 1132.5 | 1124.5 |
| 17.5° | 1206.7 | 1210.0 | 1195.9 | 1177.8 | 1167.0 | 1164.2 | 1160.2 | 1161.9 | 1160.8 | 1156.8 |
| 20° | 1225.9 | 1228.2 | 1209.5 | 1187.4 | 1175.5 | 1176.1 | 1174.9 | 1180.6 | 1182.9 | 1182.9 |
| 22.5° | 1249.7 | 1250.3 | 1226.5 | 1198.7 | 1184.6 | 1188.5 | 1190.2 | 1196.5 | 1201.0 | 1205.5 |
| 25° | 1280.8 | 1279.7 | 1251.4 | 1213.4 | 1201.0 | 1206.7 | 1210.6 | 1212.9 | 1218.0 | 1225.3 |
| 27.5° | 1327.3 | 1323.9 | 1287.6 | 1237.2 | 1222.5 | 1227.6 | 1235.0 | 1233.8 | 1231.6 | 1237.2 |
| 30° | 1386.1 | 1381.6 | 1333.5 | 1270.6 | 1257.0 | 1261.6 | 1263.8 | 1253.6 | 1237.2 | 1242.3 |
| 32.5° | 1479.6 | 1471.6 | 1404.8 | 1308.0 | 1287.1 | 1292.2 | 1289.3 | 1268.4 | 1244.0 | 1249.1 |
| 35° | 1642.1 | 1622.8 | 1528.3 | 1386.1 | 1321.0 | 1315.4 | 1308.6 | 1288.2 | 1258.2 | 1253.1 |
| 37.5° | 1987.5 | 1953.5 | 1792.1 | 1538.5 | 1398.0 | 1361.2 | 1340.3 | 1319.9 | 1273.5 | 1253.1 |
| 40° | 2377.1 | 2342.5 | 2156.2 | 1793.3 | 1526.0 | 1463.7 | 1413.9 | 1357.3 | 1289.3 | 1260.4 |
| 42.5° | 2783.6 | 2745.7 | 2554.3 | 2109.2 | 1708.9 | 1580.9 | 1488.1 | 1387.3 | 1315.4 | 1283.1 |
| 45° | 3237.7 | 3190.2 | 2939.9 | 2438.8 | 1974.5 | 1775.7 | 1607.5 | 1449.0 | 1360.7 | 1323.3 |
| 47.5° | 3716.8 | 3655.1 | 3324.4 | 2758.7 | 2260.4 | 2045.2 | 1826.1 | 1559.4 | 1427.5 | 1383.3 |
| 50° | 4141.5 | 4080.3 | 3721.3 | 3093.4 | 2527.7 | 2301.8 | 2075.3 | 1712.3 | 1527.7 | 1468.3 |
| 52.5° | 4446.7 | 4400.2 | 4082.6 | 3438.8 | 2805.7 | 2542.4 | 2301.2 | 1890.1 | 1654.5 | 1577.0 |
| 55° | 4651.1 | 4608.6 | 4338.5 | 3766.0 | 3129.0 | 2807.4 | 2523.7 | 2083.2 | 1807.4 | 1707.2 |
| 57.5° | 4775.1 | 4750.7 | 4523.7 | 4058.2 | 3449.5 | 3097.3 | 2778.5 | 2295.5 | 1987.5 | 1860.7 |
| 60° | 4819.2 | 4799.4 | 4638.6 | 4336.8 | 3836.8 | 3445.6 | 3078.1 | 2535.0 | 2206.1 | 2035.1 |
| 62.5° | 4701.5 | 4705.4 | 4721.3 | 4666.9 | 4245.1 | 3853.2 | 3437.1 | 2822.7 | 2448.4 | 2232.7 |
| 65° | 4147.1 | 4180.0 | 4481.2 | 5032.7 | 4785.8 | 4364.0 | 3894.0 | 3173.8 | 2725.9 | 2457.5 |
| 67.5° | 3433.7 | 3481.2 | 3856.1 | 5246.7 | 5362.3 | 5027.0 | 4530.5 | 3621.1 | 3056.5 | 2686.2 |
| 70° | 2628.5 | 2679.4 | 3133.6 | 5202.0 | 5901.9 | 5751.8 | 5317.5 | 4190.2 | 3399.1 | 2844.8 |
| 72.5° | 1875.9 | 1902.0 | 2259.9 | 4804.0 | 6123.3 | 6245.6 | 5897.4 | 4729.2 | 3574.1 | 2757.0 |
| 75° | 1318.2 | 1313.7 | 1550.9 | 3868.5 | 5778.4 | 6185.6 | 5694.1 | 4437.6 | 3234.3 | 2190.2 |
| 77.5° | 574.2 | 575.3 | 774.6 | 2349.3 | 4612.0 | 5283.0 | 4733.2 | 2779.7 | 2254.8 | 1160.8 |
| 80° | 148.9 | 153.5 | 284.3 | 935.4 | 2776.8 | 3486.9 | 2886.7 | 1221.9 | 1041.9 | 283.1 |
| 82.5° | 52.7 | 56.1 | 130.8 | 293.9 | 1024.3 | 1599.1 | 1285.4 | 390.7 | 271.8 | 81.0 |
| 85° | 15.3 | 18.1 | 70.2 | 90.0 | 211.8 | 451.9 | 312.0 | 75.9 | 66.8 | 41.9 |
| 87.5° | 0.0 | 2.3 | 14.2 | 12.5 | 12.5 | 8.5 | 15.9 | 8.5 | 10.8 | 5.1 |
| 90° | 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: GALN-SB1D-760-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 995.4 | 0° | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 | 995.4 |
| 1003.9 | 2.5° | 1000.5 | 996.6 | 988.1 | 979.0 | 970.5 | 962.6 | 960.3 | 951.8 | 947.9 | 948.4 |
| 1011.9 | 5° | 1005.6 | 998.3 | 981.9 | 962.0 | 941.7 | 918.4 | 899.2 | 872.0 | 848.8 | 846.0 |
| 1027.2 | 7.5° | 1019.2 | 1007.3 | 980.7 | 942.2 | 891.3 | 827.3 | 767.8 | 708.9 | 675.5 | 657.4 |
| 1049.8 | 10° | 1040.2 | 1024.3 | 983.6 | 909.9 | 801.8 | 687.4 | 597.4 | 523.2 | 485.3 | 467.7 |
| 1077.5 | 12.5° | 1065.1 | 1047.5 | 988.1 | 855.0 | 686.3 | 536.2 | 438.8 | 393.5 | 385.6 | 384.5 |
| 1111.5 | 15° | 1100.2 | 1080.9 | 993.2 | 780.8 | 561.1 | 408.3 | 363.5 | 364.1 | 370.3 | 373.7 |
| 1148.3 | 17.5° | 1139.3 | 1120.0 | 985.8 | 690.2 | 437.7 | 348.8 | 347.7 | 352.8 | 361.8 | 365.2 |
| 1182.3 | 20° | 1178.9 | 1160.8 | 959.8 | 583.8 | 353.9 | 332.4 | 336.9 | 342.6 | 351.6 | 356.2 |
| 1215.7 | 22.5° | 1219.7 | 1203.8 | 918.4 | 470.5 | 319.4 | 320.5 | 326.2 | 331.8 | 342.0 | 347.1 |
| 1248.6 | 25° | 1263.3 | 1249.7 | 863.5 | 377.1 | 304.6 | 308.0 | 315.4 | 322.2 | 332.9 | 339.2 |
| 1276.3 | 27.5° | 1307.4 | 1297.2 | 801.2 | 314.8 | 291.0 | 295.0 | 303.5 | 312.6 | 323.3 | 330.7 |
| 1300.6 | 30° | 1355.6 | 1349.9 | 751.4 | 291.6 | 278.0 | 281.4 | 291.0 | 301.2 | 313.1 | 322.2 |
| 1325.0 | 32.5° | 1404.8 | 1403.7 | 727.0 | 308.6 | 266.1 | 268.4 | 276.9 | 287.1 | 301.8 | 313.1 |
| 1345.4 | 35° | 1453.5 | 1455.8 | 712.9 | 356.7 | 262.2 | 255.9 | 261.6 | 270.7 | 288.2 | 302.4 |
| 1368.6 | 37.5° | 1515.8 | 1521.5 | 712.3 | 408.8 | 271.8 | 243.5 | 247.4 | 253.7 | 269.0 | 285.4 |
| 1404.8 | 40° | 1608.7 | 1638.7 | 748.6 | 453.6 | 288.8 | 232.2 | 233.3 | 234.4 | 242.3 | 255.9 |
| 1453.0 | 42.5° | 1732.1 | 1819.9 | 879.4 | 484.1 | 295.6 | 222.0 | 218.0 | 211.8 | 210.6 | 218.0 |
| 1518.6 | 45° | 1885.6 | 2039.0 | 1109.3 | 501.1 | 288.8 | 210.6 | 199.9 | 183.5 | 177.2 | 182.3 |
| 1607.5 | 47.5° | 2066.2 | 2279.1 | 1381.6 | 505.1 | 277.5 | 196.5 | 177.2 | 155.7 | 150.6 | 152.3 |
| 1727.0 | 50° | 2242.3 | 2459.2 | 1621.1 | 472.2 | 258.8 | 178.4 | 152.3 | 134.2 | 130.8 | 131.4 |
| 1868.0 | 52.5° | 2398.0 | 2520.9 | 1689.1 | 394.7 | 233.9 | 156.3 | 130.8 | 118.3 | 116.1 | 116.1 |
| 2023.7 | 55° | 2501.1 | 2454.1 | 1506.2 | 301.8 | 202.7 | 133.6 | 112.1 | 105.9 | 104.8 | 104.2 |
| 2197.6 | 57.5° | 2522.6 | 2236.6 | 1137.6 | 218.0 | 158.5 | 112.7 | 99.7 | 96.3 | 94.0 | 91.7 |
| 2375.9 | 60° | 2445.6 | 1874.2 | 724.2 | 152.3 | 118.9 | 96.3 | 88.3 | 86.1 | 81.5 | 77.0 |
| 2543.5 | 62.5° | 2279.1 | 1415.6 | 400.9 | 105.9 | 95.7 | 82.1 | 78.1 | 75.3 | 66.8 | 59.5 |
| 2676.6 | 65° | 2055.4 | 941.1 | 177.2 | 82.7 | 78.1 | 69.1 | 66.8 | 62.9 | 52.7 | 44.2 |
| 2727.0 | 67.5° | 1830.6 | 541.9 | 79.8 | 66.2 | 62.9 | 56.6 | 54.9 | 52.1 | 44.7 | 36.8 |
| 2598.5 | 70° | 1574.1 | 274.6 | 54.9 | 52.7 | 48.7 | 43.0 | 44.7 | 44.2 | 36.8 | 30.0 |
| 2119.4 | 72.5° | 1172.1 | 136.5 | 41.3 | 39.6 | 35.1 | 30.6 | 36.8 | 36.2 | 28.9 | 22.6 |
| 1306.9 | 75° | 663.6 | 67.4 | 30.0 | 27.7 | 21.0 | 22.6 | 29.4 | 27.7 | 19.8 | 14.7 |
| 551.5 | 77.5° | 263.3 | 34.5 | 19.8 | 17.0 | 12.5 | 15.3 | 21.5 | 18.7 | 10.2 | 6.2 |
| 105.3 | 80° | 60.6 | 17.0 | 10.2 | 7.4 | 5.7 | 9.1 | 11.3 | 6.8 | 2.8 | 0.6 |
| 28.3 | 82.5° | 17.0 | 7.4 | 3.4 | 2.8 | 2.8 | 3.4 | 2.8 | 1.1 | 0.0 | 0.0 |
| 7.4 | 85° | 5.7 | 3.4 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 2.3 | 87.5° | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 995.4 |
| 947.9 |
| 844.3 |
| 656.3 |
| 464.3 |
| 383.9 |
| 373.2 |
| 364.7 |
| 356.2 |
| 347.1 |
| 339.2 |
| 331.2 |
| 323.3 |
| 314.3 |
| 304.6 |
| 288.2 |
| 260.5 |
| 222.0 |
| 182.3 |
| 151.8 |
| 131.4 |
| 115.5 |
| 103.1 |
| 90.6 |
| 75.3 |
| 57.2 |
| 42.5 |
| 35.7 |
| 28.9 |
| 21.5 |
| 13.6 |
| 5.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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