Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P940217

Luminaire Tested: **GALN-SB3A-935-U-T3**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

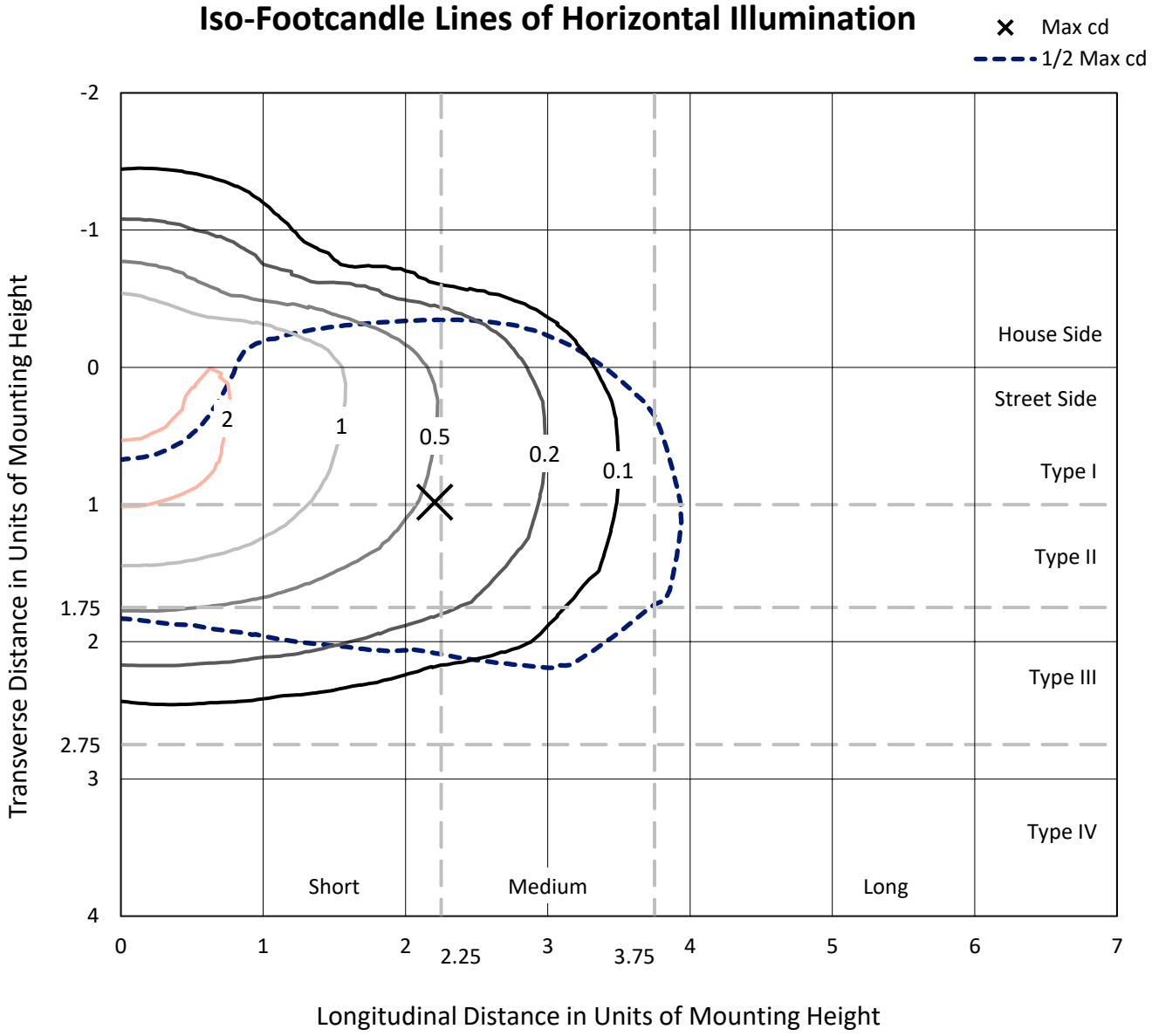
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P940217 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB3A-935-U-T3 |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (3) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9369 lumens |
| Efficiency: | N/A |
| Efficacy: | 110.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B2 - U0 - G2 |
| Input Watts (W): | 84.7 |
| 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 |

REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

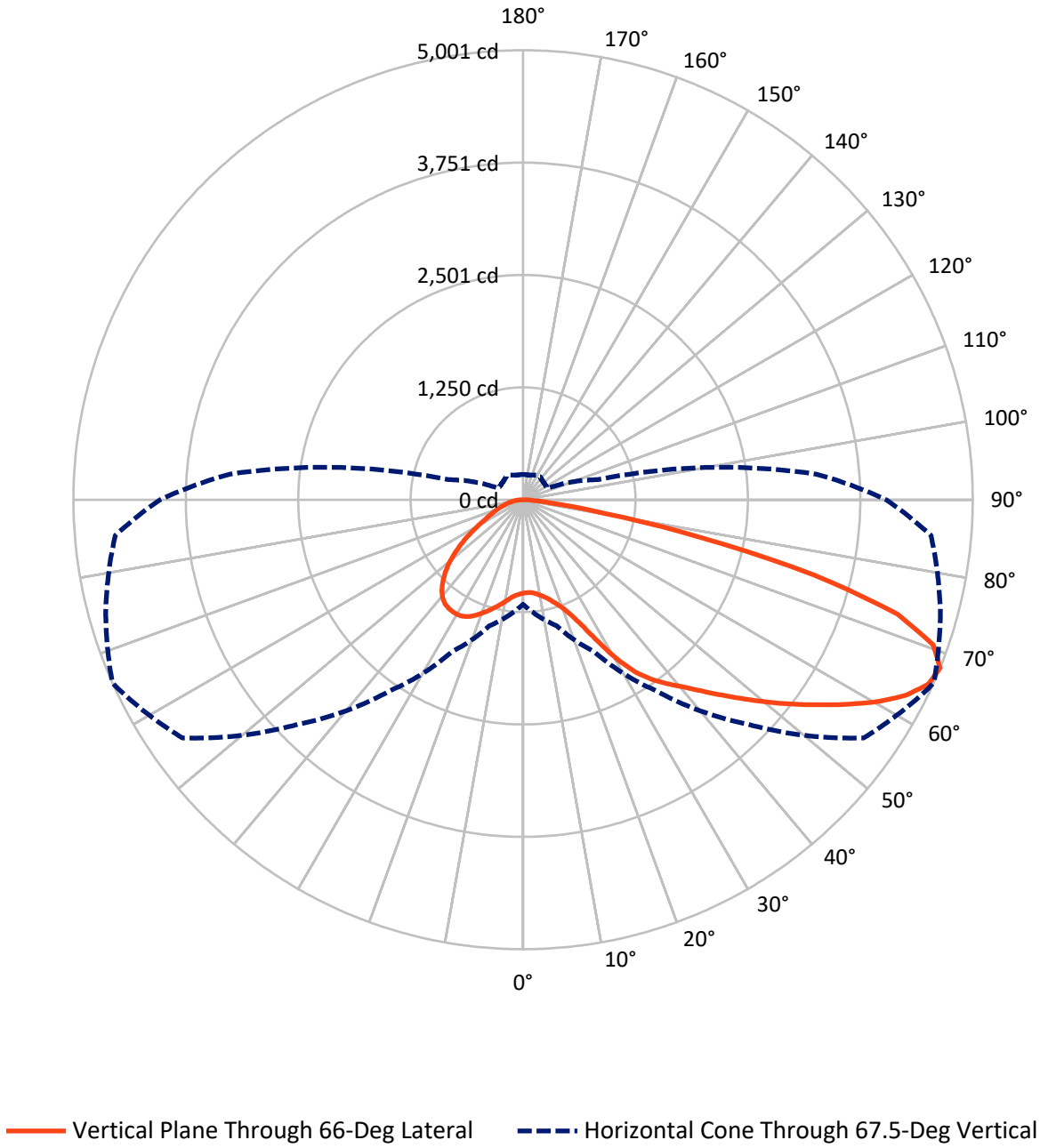



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

## Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

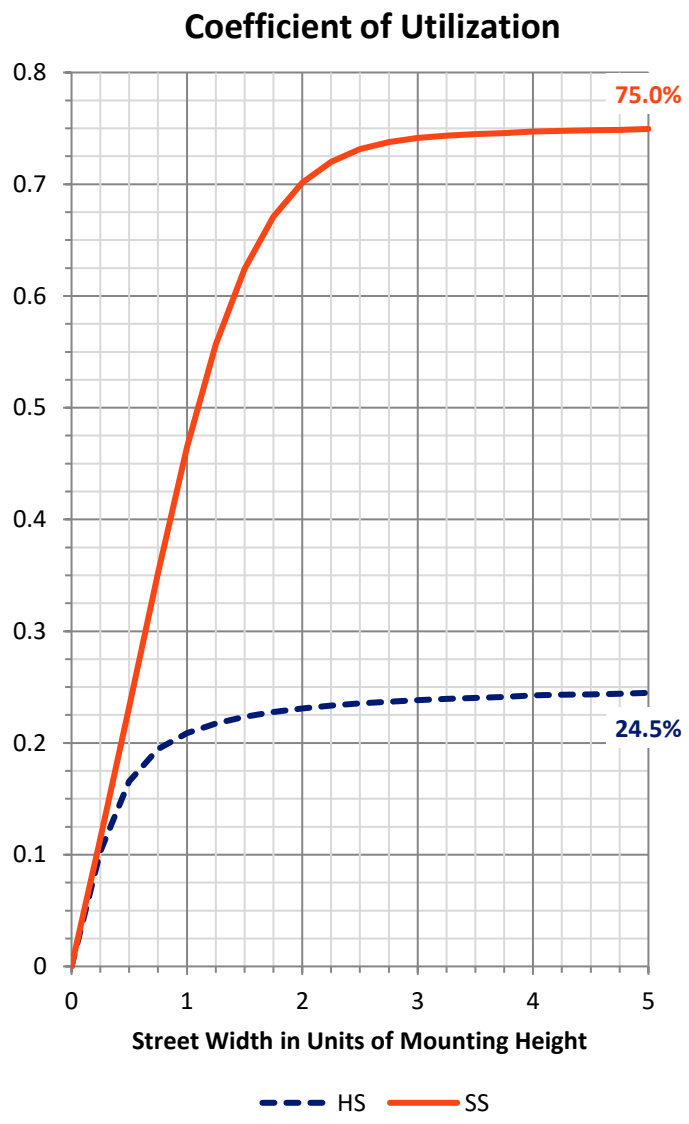
REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2329.6 | 0.0 | 2329.6 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| **Street Side** | Lumens | 7039.4 | 0.0 | 7039.4 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| **Total** | Lumens | 9369.0 | 0.0 | 9369.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 103.0 | 1.1 |
| 10°-20° | 340.4 | 3.6 |
| 20°-30° | 656.1 | 7.0 |
| 30°-40° | 1150.4 | 12.3 |
| 40°-50° | 1710.2 | 18.3 |
| 50°-60° | 2167.8 | 23.1 |
| 60°-70° | 2121.2 | 22.6 |
| 70°-80° | 1011.8 | 10.8 |
| 80°-90° | 108.1 | 1.2 |
| 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° | 9369.0 | 100.0 |
| 0°-180° | 9369.0 | 100.0 |

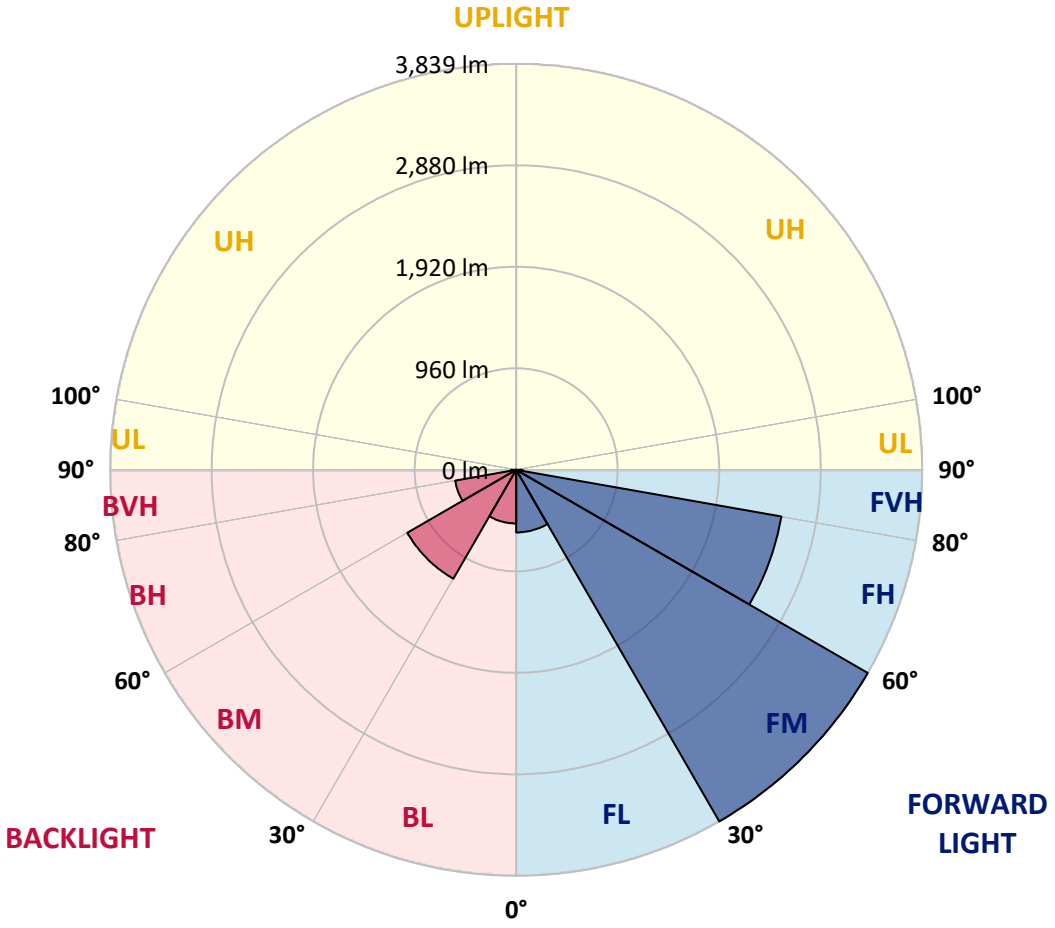


REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 592.0 | 6.3 | | | |
| FM | (30°-60°) | 3839.3 | 41.0 | | | |
| FH | (60°-80°) | 2546.7 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 61.3 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 507.5 | 5.4 | B2/1000 | | |
| BM | (30°-60°) | 1189.0 | 12.7 | B2/2500 | | |
| BH | (60°-80°) | 586.2 | 6.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 46.8 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type III Short



REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | *1039.1* | 1039.1 |
| 2.5° | 1028.3 | 1034.2 | 1032.7 | 1030.3 | 1029.8 | 1030.8 | 1032.3 | 1033.7 | *1033.2* | 1035.7 |
| 5° | 1025.4 | 1031.3 | 1030.8 | 1030.8 | 1032.7 | 1036.7 | 1039.1 | 1041.6 | *1039.1* | 1042.1 |
| 7.5° | 1027.3 | 1031.8 | 1033.7 | 1035.7 | 1040.6 | 1048.0 | 1053.9 | 1059.3 | *1056.4* | 1059.8 |
| 10° | 1052.4 | 1055.9 | 1057.9 | 1057.9 | 1061.3 | 1069.7 | 1075.6 | 1085.4 | *1083.0* | 1088.4 |
| 12.5° | 1098.2 | 1101.7 | 1101.7 | 1099.7 | 1102.2 | 1107.6 | 1109.5 | 1120.4 | *1115.9* | 1124.8 |
| 15° | 1154.3 | 1161.2 | 1155.8 | 1152.4 | 1153.3 | 1158.8 | 1158.3 | 1166.6 | *1162.2* | 1169.6 |
| 17.5° | 1216.4 | 1225.2 | 1216.4 | 1215.9 | 1213.9 | 1219.8 | 1220.3 | 1227.7 | *1219.8* | 1225.2 |
| 20° | 1289.7 | 1302.0 | 1294.6 | 1297.1 | 1292.7 | 1295.1 | 1297.6 | 1308.4 | *1296.1* | 1300.0 |
| 22.5° | 1393.1 | 1407.8 | 1400.0 | 1409.3 | 1406.4 | 1404.4 | 1403.9 | 1423.1 | *1403.9* | 1405.4 |
| 25° | 1543.7 | 1561.4 | 1547.6 | 1560.4 | 1560.4 | 1566.8 | 1574.2 | 1598.8 | *1566.8* | 1557.5 |
| 27.5° | 1766.2 | 1783.9 | 1756.9 | 1764.7 | 1762.3 | 1778.0 | 1770.1 | 1831.2 | *1796.7* | 1781.5 |
| 30° | 2034.0 | 2065.5 | 2014.3 | 2012.3 | 2009.9 | 2035.0 | 2046.3 | 2086.7 | *2051.7* | 2036.5 |
| 32.5° | 2323.4 | 2356.4 | 2295.4 | 2277.7 | 2268.3 | 2283.6 | 2274.2 | 2306.7 | *2282.6* | 2258.9 |
| 35° | 2629.6 | 2662.1 | 2604.0 | 2569.6 | 2532.1 | 2500.2 | 2466.7 | 2475.0 | *2452.4* | 2416.5 |
| 37.5° | 2919.1 | 2978.6 | 2917.1 | 2880.2 | 2811.3 | 2748.7 | 2655.2 | 2616.3 | *2595.2* | 2562.2 |
| 40° | 3213.9 | 3247.9 | 3201.1 | 3169.6 | 3094.8 | 2996.8 | 2847.2 | 2765.0 | *2736.4* | 2704.4 |
| 42.5° | 3431.0 | 3463.5 | 3438.4 | 3416.7 | 3358.1 | 3244.4 | 3051.0 | 2948.1 | *2906.8* | 2870.8 |
| 45° | 3603.3 | 3627.4 | 3611.7 | 3619.5 | 3594.4 | 3484.2 | 3262.2 | 3144.5 | *3101.7* | 3057.9 |
| 47.5° | 3672.7 | 3698.3 | 3723.4 | 3770.2 | 3813.0 | 3731.8 | 3489.1 | 3357.2 | *3311.9* | 3267.1 |
| 50° | 3664.8 | 3690.9 | 3763.8 | 3863.2 | 3996.1 | 3969.0 | 3728.3 | 3583.6 | *3541.8* | 3490.6 |
| 52.5° | 3601.8 | 3631.3 | 3724.9 | 3890.3 | 4101.9 | 4146.7 | 3972.0 | 3817.4 | *3778.0* | 3717.0 |
| 55° | 3436.4 | 3454.1 | 3594.4 | 3828.7 | 4127.0 | 4270.8 | 4210.7 | 4066.5 | *4027.1* | 3942.0 |
| 57.5° | 3129.7 | 3155.3 | 3359.6 | 3662.9 | 4064.0 | 4355.0 | 4420.4 | 4328.4 | *4290.5* | 4167.9 |
| 60° | 2729.5 | 2770.4 | 3004.2 | 3384.2 | 3903.6 | 4354.5 | 4610.9 | 4585.8 | *4554.3* | 4390.4 |
| 62.5° | 2276.7 | 2323.9 | 2548.9 | 2990.4 | 3623.0 | 4230.9 | 4730.1 | 4801.4 | *4785.2* | 4595.7 |
| 65° | 1748.5 | 1781.0 | 2004.9 | 2481.0 | 3186.4 | 3965.6 | 4743.8 | 4948.6 | *4951.6* | 4751.7 |
| 67.5° | *1164.2* | *1257.7* | *1452.1* | *1861.7* | *2601.6* | *3531.9* | *4622.7* | *4972.7* | *5001.3* | *4805.4* |
| 70° | 568.1 | 691.1 | 881.6 | 1210.0 | 1861.7 | 2866.9 | 4306.2 | 4774.9 | *4838.4* | 4648.8 |
| 72.5° | 235.8 | 275.7 | 379.5 | 597.1 | 1068.7 | 1934.6 | 3670.2 | 4238.3 | *4355.9* | 4119.2 |
| 75° | 159.0 | 172.3 | 217.1 | 306.2 | 486.8 | 954.0 | 2646.8 | 3160.3 | *3349.8* | 3111.0 |
| 77.5° | 122.6 | 130.9 | 158.0 | 214.1 | 289.4 | 360.8 | 1416.7 | 1904.5 | *2002.5* | 1853.8 |
| 80° | 96.5 | 102.9 | 118.1 | 156.0 | 205.3 | 193.0 | 482.9 | 862.9 | *919.5* | 771.4 |
| 82.5° | 83.7 | 86.1 | 84.7 | 105.8 | 136.4 | 112.7 | 158.5 | 318.5 | *351.5* | 255.0 |
| 85° | 60.5 | 67.4 | 70.4 | 65.5 | 72.4 | 57.1 | 65.0 | 112.7 | *124.0* | 110.8 |
| 87.5° | 24.6 | 36.4 | 44.8 | 42.3 | 26.6 | 16.2 | 20.2 | 33.0 | *37.9* | 41.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 |

REPORT NUMBER: P940217
CATALOG NUMBER: GALN-SB3A-935-U-T3

**CANDELA DISTRIBUTION (continued):**

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1039.1 | 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 |
| 1039.6 | 2.5° | 1040.1 | 1043.6 | 1046.0 | 1049.0 | 1051.0 | 1053.9 | 1059.8 | 1063.3 | 1063.8 | 1066.2 |
| 1047.5 | 5° | 1049.5 | 1054.4 | 1059.8 | 1067.7 | 1076.6 | 1083.9 | 1095.3 | 1103.1 | 1106.1 | 1108.6 |
| 1066.7 | 7.5° | 1069.7 | 1076.6 | 1086.4 | 1100.2 | 1113.0 | 1122.8 | 1136.6 | 1146.0 | 1155.3 | 1158.8 |
| 1097.2 | 10° | 1099.7 | 1109.5 | 1123.8 | 1142.5 | 1156.3 | 1169.1 | 1183.4 | 1191.3 | 1200.6 | 1204.5 |
| 1133.7 | 12.5° | 1137.1 | 1147.4 | 1166.1 | 1192.2 | 1205.0 | 1213.9 | 1218.8 | 1216.8 | 1218.8 | 1222.3 |
| 1177.5 | 15° | 1179.9 | 1191.3 | 1212.4 | 1240.5 | 1249.3 | 1241.5 | 1230.6 | 1220.8 | 1219.3 | 1220.3 |
| 1230.6 | 17.5° | 1230.6 | 1239.0 | 1263.6 | 1287.2 | 1280.8 | 1248.4 | 1224.7 | 1209.0 | 1201.1 | 1198.6 |
| 1298.6 | 20° | 1301.5 | 1301.5 | 1321.7 | 1336.5 | 1293.6 | 1238.5 | 1201.6 | 1176.0 | 1159.7 | 1152.9 |
| 1391.1 | 22.5° | 1387.7 | 1379.8 | 1392.6 | 1382.2 | 1291.2 | 1210.9 | 1159.7 | 1115.4 | 1090.8 | 1081.0 |
| 1520.6 | 25° | 1496.9 | 1487.6 | 1484.1 | 1420.1 | 1273.5 | 1167.1 | 1083.9 | 1030.3 | 1008.6 | 1003.2 |
| 1707.1 | 27.5° | 1661.8 | 1638.2 | 1593.4 | 1440.8 | 1241.0 | 1098.2 | 995.3 | 945.6 | 933.3 | 933.8 |
| 1946.9 | 30° | 1881.4 | 1834.1 | 1724.4 | 1444.3 | 1187.8 | 1000.8 | 904.8 | 869.3 | 863.4 | 865.9 |
| 2148.2 | 32.5° | 2084.7 | 2039.9 | 1858.3 | 1428.5 | 1106.1 | 905.3 | 823.5 | 799.9 | 791.1 | 794.0 |
| 2301.8 | 35° | 2244.2 | 2231.9 | 1982.3 | 1406.4 | 1005.7 | 815.7 | 750.7 | 730.5 | 713.3 | 709.3 |
| 2446.5 | 37.5° | 2394.8 | 2389.9 | 2075.3 | 1375.4 | 906.2 | 752.2 | 692.1 | 665.5 | 640.4 | 626.6 |
| 2606.5 | 40° | 2560.2 | 2555.3 | 2136.4 | 1327.6 | 818.1 | 697.0 | 639.4 | 604.5 | 573.5 | 548.4 |
| 2787.6 | 42.5° | 2746.3 | 2717.2 | 2165.4 | 1259.2 | 743.3 | 650.3 | 596.6 | 549.4 | 508.5 | 485.4 |
| 2992.4 | 45° | 2949.6 | 2884.1 | 2164.9 | 1172.1 | 680.3 | 607.4 | 550.8 | 483.9 | 446.0 | 424.3 |
| 3202.6 | 47.5° | 3165.2 | 3043.6 | 2138.3 | 1075.6 | 619.3 | 560.2 | 479.9 | 428.8 | 403.6 | 390.4 |
| 3431.0 | 50° | 3387.7 | 3192.8 | 2093.1 | 964.8 | 556.7 | 506.5 | 435.6 | 400.7 | 381.5 | 369.2 |
| 3657.4 | 52.5° | 3596.9 | 3328.1 | 2038.4 | 839.3 | 493.2 | 454.3 | 416.0 | 388.9 | 368.7 | 354.9 |
| 3877.0 | 55° | 3791.3 | 3444.8 | 1961.1 | 710.8 | 441.6 | 419.4 | 406.6 | 384.0 | 360.8 | 344.6 |
| 4100.0 | 57.5° | 3964.1 | 3520.6 | 1827.7 | 590.2 | 404.6 | 395.3 | 396.8 | 375.6 | 349.0 | 335.2 |
| 4319.5 | 60° | 4107.9 | 3576.2 | 1630.3 | 478.5 | 374.6 | 371.7 | 381.5 | 359.8 | 328.8 | 313.1 |
| 4505.1 | 62.5° | 4194.0 | 3575.2 | 1388.2 | 391.8 | 349.0 | 350.0 | 361.3 | 340.1 | 308.6 | 293.9 |
| 4602.1 | 65° | 4186.6 | 3487.6 | 1122.3 | 335.2 | 324.4 | 325.4 | 340.1 | 318.5 | 291.9 | 283.0 |
| *4553.3* | 67.5° | *4038.4* | *3274.0* | *861.0* | *298.3* | *297.3* | *301.8* | *319.0* | *303.7* | *281.6* | *280.6* |
| 4262.9 | 70° | 3637.3 | 2830.5 | 620.2 | 268.8 | 269.3 | 275.7 | 298.3 | 294.4 | 276.2 | 278.1 |
| 3584.1 | 72.5° | 2916.6 | 2158.0 | 416.4 | 237.8 | 238.3 | 248.6 | 278.6 | 287.0 | 270.7 | 296.8 |
| 2543.0 | 75° | 1942.4 | 1345.8 | 267.8 | 204.8 | 205.3 | 218.6 | 261.4 | 272.7 | 256.0 | 295.8 |
| 1323.2 | 77.5° | 933.3 | 605.0 | 193.9 | 172.3 | 172.3 | 184.6 | 225.9 | 244.2 | 218.1 | 229.9 |
| 425.3 | 80° | 322.4 | 227.4 | 152.6 | 138.8 | 135.9 | 144.2 | 190.5 | 211.7 | 188.0 | 173.3 |
| 138.8 | 82.5° | 127.0 | 118.1 | 122.6 | 107.8 | 98.0 | 103.4 | 148.2 | 174.7 | 138.3 | 125.0 |
| 78.3 | 85° | 72.9 | 76.8 | 86.6 | 71.4 | 56.6 | 63.5 | 108.8 | 125.5 | 104.4 | 92.1 |
| 25.6 | 87.5° | 19.7 | 27.1 | 39.9 | 36.9 | 25.6 | 27.1 | 51.7 | 69.4 | 60.1 | 46.3 |
| 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

| 180° |
|---|
| 1039.1 |
| 1065.7 |
| 1108.1 |
| 1159.3 |
| 1206.5 |
| 1223.2 |
| 1223.7 |
| 1202.1 |
| 1151.4 |
| 1079.5 |
| 1004.2 |
| 935.3 |
| 874.2 |
| 797.9 |
| 712.3 |
| 627.1 |
| 550.8 |
| 486.8 |
| 423.3 |
| 387.4 |
| 364.8 |
| 349.0 |
| 338.2 |
| 326.4 |
| 306.2 |
| 289.4 |
| 282.6 |
| *282.1* |
| 277.6 |
| 300.8 |
| 298.3 |
| 210.7 |
| 162.4 |
| 124.5 |
| 94.0 |
| 47.7 |
| 0.0 |

F REPORT)