

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: P956057

Luminaire Tested: **GALN-SB8D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60582 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

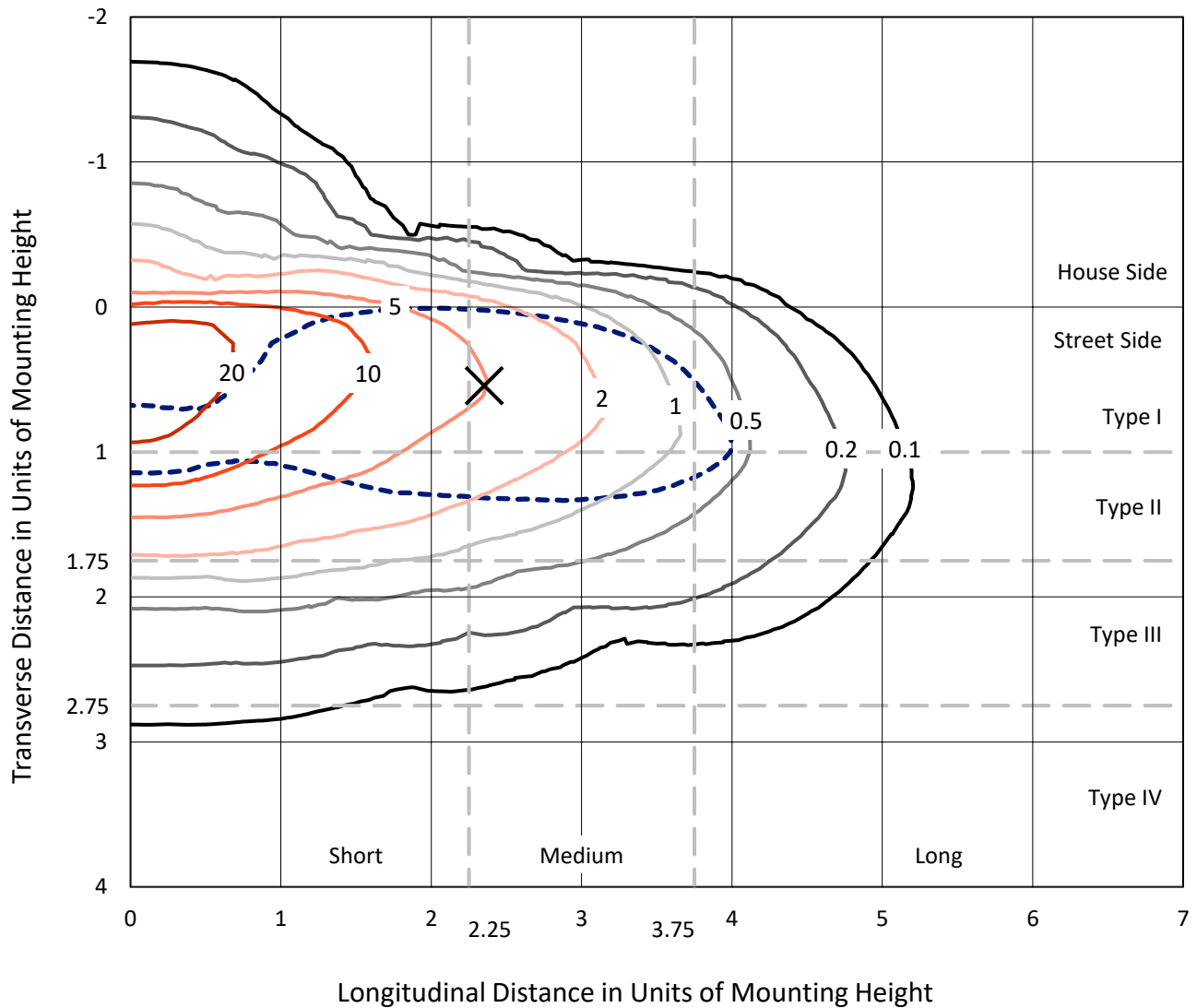
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956057
 CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

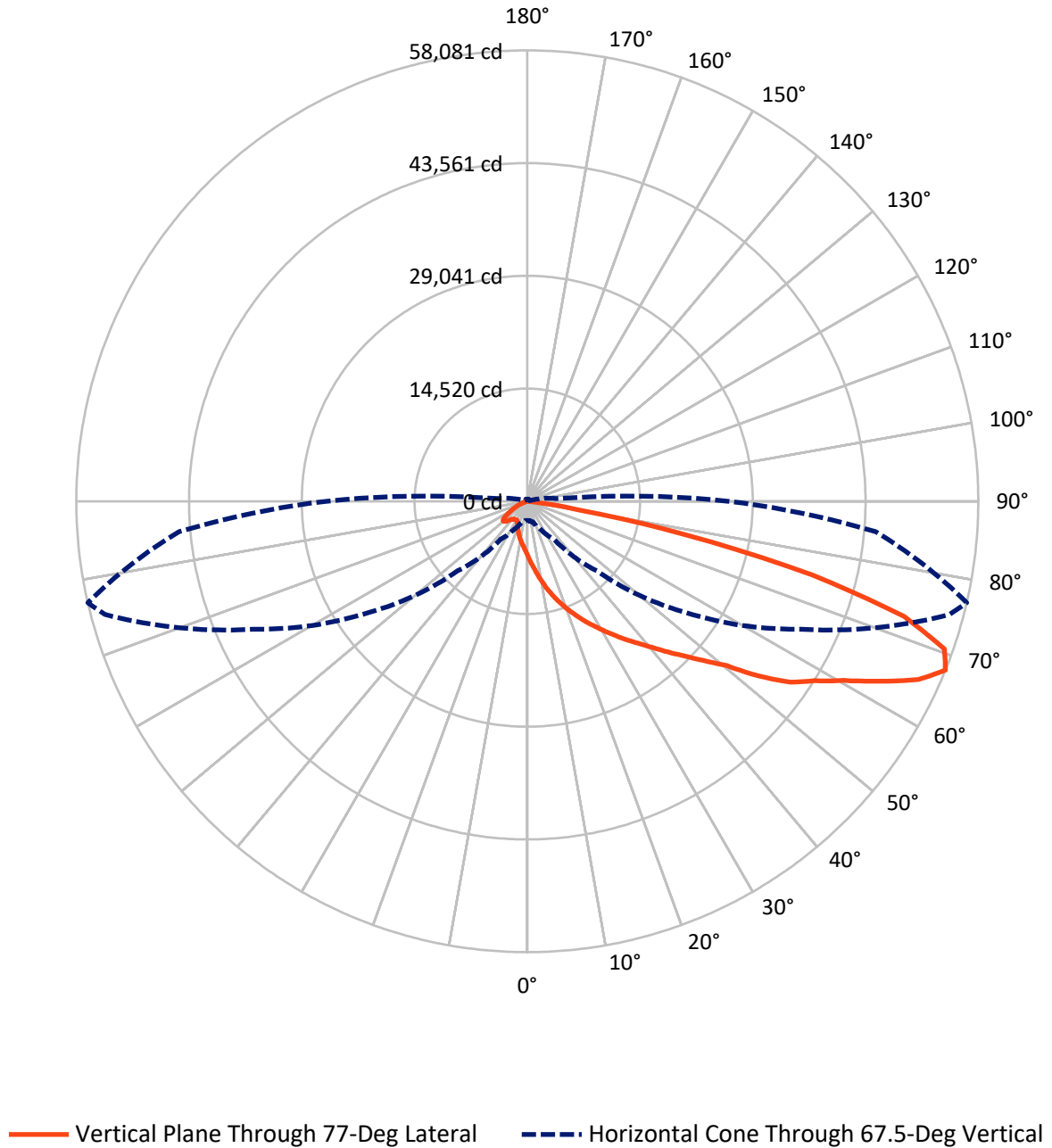
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P956057
CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P956057
 CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4457.0 | 0.0 | 4457.0 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 56125.0 | 0.0 | 56125.0 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 60582.0 | 0.0 | 60582.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 713.0 | 1.2 |
| 10°-20° | 2497.0 | 4.1 |
| 20°-30° | 4818.5 | 8.0 |
| 30°-40° | 8365.1 | 13.8 |
| 40°-50° | 12145.7 | 20.0 |
| 50°-60° | 13947.8 | 23.0 |
| 60°-70° | 12109.3 | 20.0 |
| 70°-80° | 5703.6 | 9.4 |
| 80°-90° | 282.1 | 0.5 |
| 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° | 60582.0 | 100.0 |
| 0°-180° | 60582.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P956057

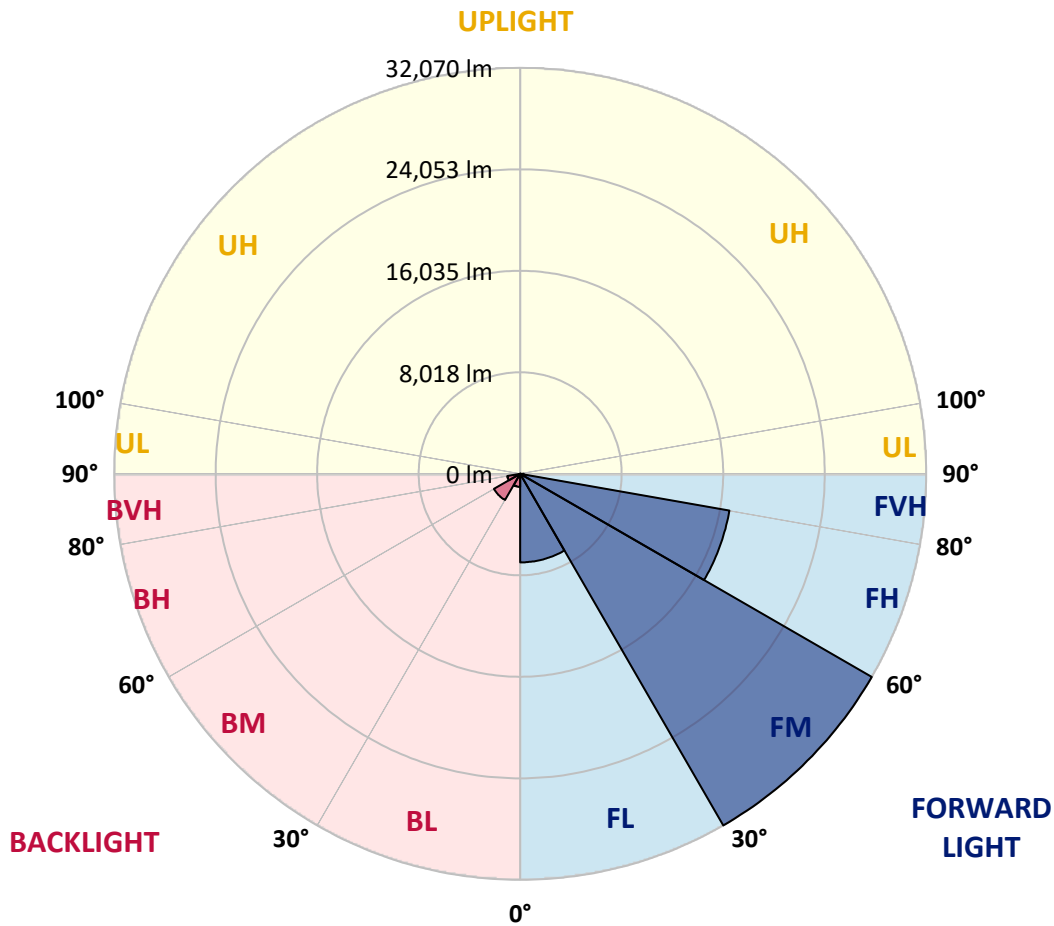
CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6996.6 | 11.5 | | | |
| FM (30°-60°) | 32070.5 | 52.9 | | | |
| FH (60°-80°) | 16781.0 | 27.7 | | | G5 |
| FVH (80°-90°) | 276.9 | 0.5 | | | G3/500 |
| BL (0°-30°) | 1031.9 | 1.7 | B3/2500 | | |
| BM (30°-60°) | 2388.1 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 1031.8 | 1.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 5.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Medium



REPORT NUMBER: P956057
 CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 |
| 2.5° | 9672.0 | 9732.2 | 9645.7 | 9480.2 | 9231.9 | 9070.1 | 8675.1 | 8302.7 | 7888.9 | 7757.2 |
| 5° | 11790.0 | 11842.7 | 11744.9 | 11564.3 | 11233.3 | 10917.3 | 10398.1 | 9619.4 | 8810.6 | 8551.0 |
| 7.5° | 13358.8 | 13388.9 | 13351.3 | 13185.7 | 12869.7 | 12512.3 | 11933.0 | 11011.3 | 9811.2 | 9525.3 |
| 10° | 14487.4 | 14585.2 | 14573.9 | 14510.0 | 14299.3 | 14009.6 | 13392.6 | 12343.1 | 10932.3 | 10563.6 |
| 12.5° | 15236.0 | 15345.1 | 15409.1 | 15552.0 | 15540.7 | 15356.4 | 14814.7 | 13704.9 | 12049.6 | 11617.0 |
| 15° | 15454.2 | 15570.8 | 15815.4 | 16146.4 | 16439.8 | 16533.9 | 16153.9 | 15040.4 | 13279.8 | 12726.8 |
| 17.5° | 15330.1 | 15510.6 | 15804.1 | 16327.0 | 16970.3 | 17395.4 | 17354.0 | 16330.8 | 14397.1 | 13765.1 |
| 20° | 15604.7 | 15777.7 | 16007.2 | 16447.4 | 17196.0 | 17967.2 | 18275.7 | 17564.7 | 15506.9 | 14844.8 |
| 22.5° | 17124.5 | 17094.4 | 17117.0 | 17188.5 | 17636.2 | 18399.8 | 19035.6 | 18685.8 | 16605.4 | 15928.2 |
| 25° | 19532.2 | 19396.8 | 19167.3 | 18779.8 | 18666.9 | 19035.6 | 19697.7 | 19678.9 | 17764.1 | 17038.0 |
| 27.5° | 22293.5 | 22270.9 | 21733.0 | 20800.0 | 20273.3 | 20130.3 | 20446.4 | 20645.7 | 18911.5 | 18136.5 |
| 30° | 24938.2 | 24998.4 | 24272.3 | 23234.0 | 22267.2 | 21706.6 | 21420.7 | 21563.7 | 20077.7 | 19321.5 |
| 32.5° | 27240.5 | 27304.4 | 26514.4 | 25299.3 | 24103.0 | 23425.8 | 22823.9 | 22470.3 | 21349.2 | 20525.4 |
| 35° | 29185.4 | 29249.4 | 28342.8 | 26999.7 | 25724.4 | 25111.2 | 24430.3 | 23463.5 | 22628.3 | 21860.9 |
| 37.5° | 30923.5 | 30904.7 | 29689.5 | 28335.2 | 27082.5 | 26597.2 | 26239.8 | 24686.1 | 23945.0 | 23203.9 |
| 40° | 31950.5 | 32029.5 | 30991.2 | 29497.7 | 28282.6 | 27928.9 | 27906.4 | 26202.2 | 25464.8 | 24746.3 |
| 42.5° | 32251.4 | 32390.6 | 31638.2 | 30411.8 | 29309.6 | 28925.9 | 29516.5 | 27842.4 | 27233.0 | 26533.2 |
| 45° | 31709.7 | 31845.2 | 31502.8 | 30652.6 | 30009.3 | 29761.0 | 30900.9 | 29542.8 | 29121.5 | 28429.3 |
| 47.5° | 30129.7 | 30299.0 | 30381.7 | 30201.2 | 30193.6 | 30445.7 | 32142.3 | 31333.5 | 31363.6 | 30656.4 |
| 50° | 27071.2 | 27357.1 | 28117.0 | 28756.6 | 29746.0 | 30987.4 | 33349.9 | 33274.7 | 33891.7 | 33282.2 |
| 52.5° | 21511.0 | 21917.3 | 24535.6 | 26284.9 | 28508.3 | 30885.8 | 34677.9 | 36389.6 | 38327.0 | 37435.5 |
| 55° | 17286.3 | 17286.3 | 19415.6 | 22688.5 | 26093.1 | 30216.2 | 35257.3 | 38413.6 | 41347.9 | 41137.2 |
| 57.5° | 14092.4 | 14261.7 | 15619.7 | 18512.7 | 22598.2 | 28621.1 | 35614.7 | 39685.1 | 43781.9 | 43627.7 |
| 60° | 8697.7 | 9062.6 | 11628.3 | 14483.6 | 18621.8 | 25780.8 | 35388.9 | 40971.7 | 46735.1 | 46859.2 |
| 62.5° | 4898.1 | 5033.5 | 6177.2 | 10420.7 | 14479.9 | 21962.4 | 33662.2 | 41690.3 | 50512.1 | 51038.8 |
| 65° | 3382.0 | 3449.7 | 3889.9 | 6485.7 | 10037.0 | 17485.7 | 30287.7 | 41242.6 | 54296.6 | 55361.3 |
| 67.5° | 2456.6 | 2490.4 | 2765.1 | 3961.4 | 5955.2 | 12677.9 | 24998.4 | 38985.4 | 56301.8 | 58081.2 |
| 70° | 1888.5 | 1911.1 | 2110.5 | 2603.3 | 3517.5 | 7824.9 | 18155.3 | 34497.3 | 54849.7 | 56975.2 |
| 72.5° | 1534.9 | 1557.5 | 1711.7 | 1926.1 | 2332.4 | 4627.2 | 11003.8 | 28015.5 | 48439.2 | 50734.0 |
| 75° | 1294.1 | 1324.2 | 1463.4 | 1602.6 | 1828.3 | 2972.0 | 5161.4 | 19509.6 | 36427.2 | 37932.0 |
| 77.5° | 718.5 | 662.1 | 1188.8 | 1328.0 | 1542.4 | 1881.0 | 2415.2 | 11481.6 | 20401.2 | 20818.8 |
| 80° | 447.7 | 462.7 | 944.3 | 1068.4 | 1185.0 | 948.0 | 1106.0 | 4420.3 | 7072.5 | 6718.9 |
| 82.5° | 26.3 | 60.2 | 726.1 | 771.2 | 812.6 | 406.3 | 417.6 | 1501.0 | 1704.2 | 1565.0 |
| 85° | 0.0 | 0.0 | 331.1 | 267.1 | 282.1 | 116.6 | 120.4 | 349.9 | 229.5 | 248.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 11.3 | 22.6 | 30.1 | 11.3 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P956057
 CATALOG NUMBER: GALN-SB8D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6986.0 | 0° | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 | 6986.0 |
| 7343.4 | 2.5° | 7080.0 | 6816.7 | 6282.5 | 5759.6 | 5334.5 | 4939.5 | 4657.3 | 4390.2 | 4254.8 | 4247.3 |
| 7817.4 | 5° | 7294.5 | 6741.5 | 5673.1 | 4728.8 | 3968.9 | 3359.4 | 2964.4 | 2682.3 | 2539.3 | 2490.4 |
| 8400.5 | 7.5° | 7595.4 | 6764.0 | 5138.9 | 3825.9 | 2930.6 | 2407.7 | 2181.9 | 2091.7 | 2061.6 | 2027.7 |
| 9058.8 | 10° | 7975.4 | 6816.7 | 4661.1 | 3081.1 | 2309.9 | 2046.5 | 1956.2 | 1918.6 | 1896.0 | 1873.5 |
| 9800.0 | 12.5° | 8400.5 | 6865.6 | 4187.1 | 2558.1 | 2031.5 | 1896.0 | 1832.1 | 1786.9 | 1756.8 | 1730.5 |
| 10559.9 | 15° | 8814.3 | 6895.7 | 3694.3 | 2193.2 | 1888.5 | 1779.4 | 1711.7 | 1662.8 | 1621.4 | 1591.3 |
| 11304.7 | 17.5° | 9224.4 | 6937.1 | 3231.5 | 1975.0 | 1771.9 | 1662.8 | 1595.1 | 1534.9 | 1501.0 | 1467.2 |
| 12087.2 | 20° | 9679.6 | 6929.6 | 2795.2 | 1820.8 | 1655.3 | 1546.2 | 1474.7 | 1418.3 | 1384.4 | 1346.8 |
| 12914.9 | 22.5° | 10100.9 | 6891.9 | 2411.4 | 1689.1 | 1534.9 | 1429.6 | 1350.6 | 1294.1 | 1260.3 | 1230.2 |
| 13761.3 | 25° | 10586.2 | 6861.8 | 2091.7 | 1568.7 | 1422.0 | 1316.7 | 1230.2 | 1177.5 | 1139.9 | 1113.5 |
| 14611.5 | 27.5° | 11052.7 | 6816.7 | 1858.4 | 1459.6 | 1312.9 | 1211.4 | 1128.6 | 1068.4 | 1034.5 | 1015.7 |
| 15488.1 | 30° | 11511.7 | 6805.4 | 1771.9 | 1354.3 | 1215.1 | 1113.5 | 1030.8 | 974.4 | 948.0 | 940.5 |
| 16451.1 | 32.5° | 12064.7 | 6835.5 | 1809.5 | 1316.7 | 1124.8 | 1023.3 | 944.3 | 902.9 | 876.5 | 876.5 |
| 17523.3 | 35° | 12655.3 | 6828.0 | 1865.9 | 1350.6 | 1064.6 | 933.0 | 872.8 | 846.4 | 820.1 | 820.1 |
| 18712.1 | 37.5° | 13396.4 | 6839.3 | 1911.1 | 1407.0 | 1042.1 | 857.7 | 823.9 | 790.0 | 775.0 | 775.0 |
| 20013.7 | 40° | 14502.4 | 7211.7 | 1888.5 | 1455.9 | 1034.5 | 805.1 | 737.3 | 726.1 | 714.8 | 714.8 |
| 21484.7 | 42.5° | 15856.7 | 8020.5 | 1918.6 | 1459.6 | 1030.8 | 767.4 | 677.2 | 699.7 | 673.4 | 669.6 |
| 23143.7 | 45° | 17339.0 | 8904.6 | 2110.5 | 1380.6 | 1027.0 | 748.6 | 647.1 | 673.4 | 632.0 | 632.0 |
| 25066.1 | 47.5° | 18809.9 | 9781.1 | 2306.1 | 1267.8 | 1015.7 | 744.9 | 620.7 | 605.7 | 594.4 | 598.2 |
| 27571.5 | 50° | 20837.6 | 10495.9 | 2381.3 | 1113.5 | 989.4 | 737.3 | 571.8 | 575.6 | 568.1 | 575.6 |
| 31104.0 | 52.5° | 23045.9 | 10646.4 | 2291.0 | 940.5 | 914.2 | 714.8 | 538.0 | 553.0 | 549.2 | 556.8 |
| 33590.7 | 55° | 24422.8 | 10484.6 | 1892.3 | 782.5 | 797.5 | 624.5 | 504.1 | 534.2 | 534.2 | 534.2 |
| 36020.9 | 57.5° | 25844.8 | 9796.2 | 1343.0 | 635.8 | 662.1 | 511.6 | 474.0 | 515.4 | 511.6 | 507.9 |
| 38947.8 | 60° | 26868.1 | 8682.6 | 884.1 | 522.9 | 526.7 | 421.3 | 440.2 | 485.3 | 481.5 | 462.7 |
| 41964.9 | 62.5° | 27631.7 | 7452.5 | 568.1 | 443.9 | 402.5 | 380.0 | 402.5 | 440.2 | 425.1 | 383.7 |
| 44523.0 | 65° | 27545.2 | 5748.3 | 436.4 | 380.0 | 331.1 | 331.1 | 349.9 | 383.7 | 338.6 | 270.9 |
| 45012.1 | 67.5° | 25938.8 | 3889.9 | 361.1 | 319.8 | 278.4 | 274.6 | 289.7 | 319.8 | 289.7 | 229.5 |
| 42506.6 | 70° | 23068.5 | 2543.1 | 289.7 | 248.3 | 222.0 | 203.1 | 233.2 | 274.6 | 244.5 | 184.3 |
| 36186.5 | 72.5° | 18723.4 | 1549.9 | 218.2 | 180.6 | 161.8 | 131.7 | 184.3 | 225.7 | 195.6 | 135.4 |
| 25163.9 | 75° | 12113.6 | 790.0 | 150.5 | 116.6 | 86.5 | 79.0 | 135.4 | 169.3 | 135.4 | 82.8 |
| 11165.6 | 77.5° | 4634.8 | 331.1 | 82.8 | 52.7 | 45.1 | 37.6 | 75.2 | 101.6 | 56.4 | 18.8 |
| 2163.1 | 80° | 891.6 | 139.2 | 41.4 | 26.3 | 22.6 | 15.0 | 11.3 | 7.5 | 0.0 | 0.0 |
| 383.7 | 82.5° | 154.2 | 45.1 | 15.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75.2 | 85° | 52.7 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26.3 | 87.5° | 18.8 | 0.0 | 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

| |
|--------|
| 180° |
| 6986.0 |
| 4239.8 |
| 2482.9 |
| 2020.2 |
| 1865.9 |
| 1723.0 |
| 1587.6 |
| 1463.4 |
| 1343.0 |
| 1226.4 |
| 1109.8 |
| 1015.7 |
| 936.7 |
| 876.5 |
| 820.1 |
| 775.0 |
| 714.8 |
| 665.9 |
| 632.0 |
| 598.2 |
| 575.6 |
| 556.8 |
| 534.2 |
| 507.9 |
| 462.7 |
| 376.2 |
| 263.3 |
| 222.0 |
| 176.8 |
| 127.9 |
| 71.5 |
| 15.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)