

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: P957050

Luminaire Tested: **GALN-SB9C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52544 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

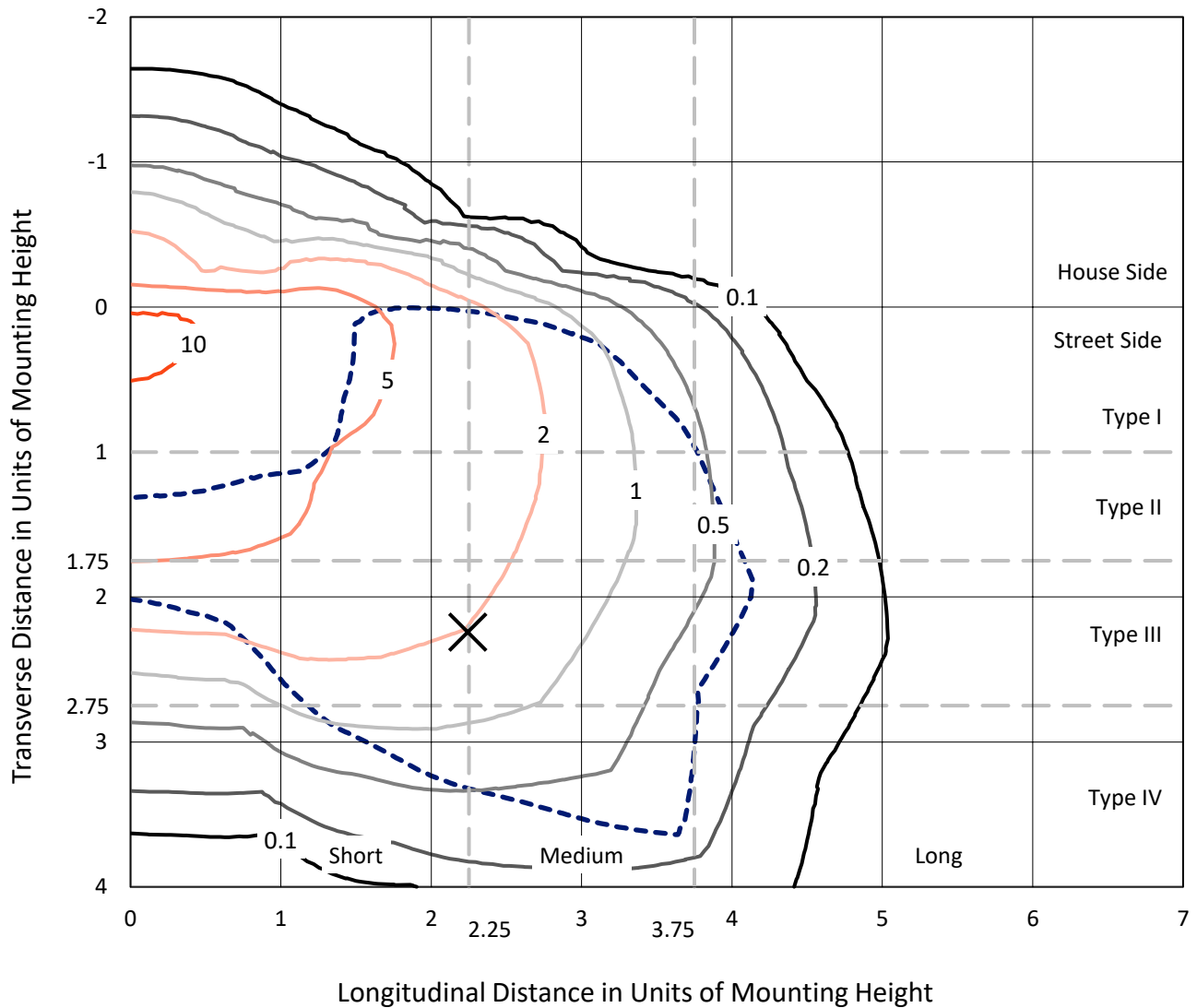
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

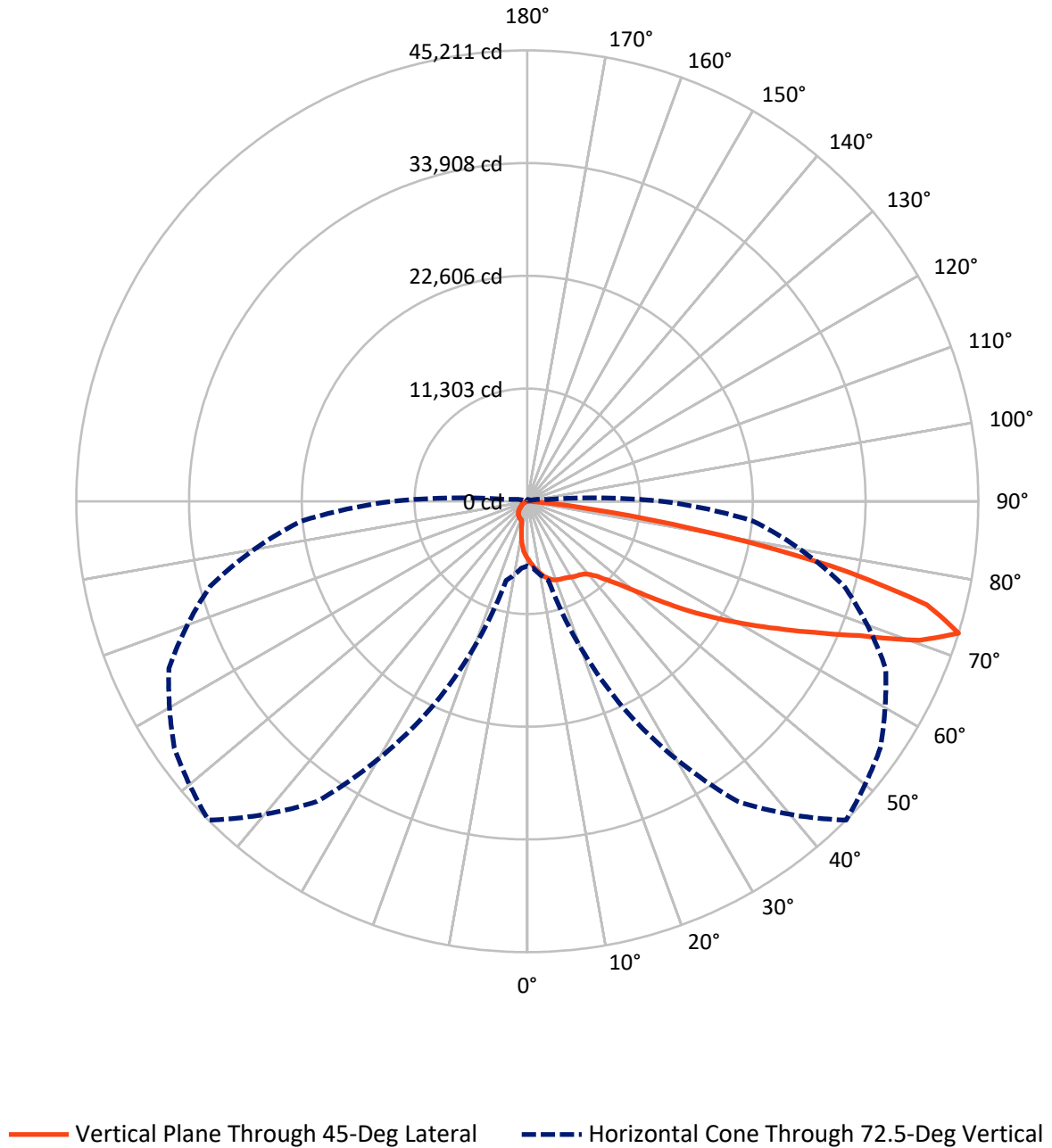
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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 | 5520.9 | 0.0 | 5520.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 47023.1 | 0.0 | 47023.1 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 52544.0 | 0.0 | 52544.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 542.4 | 1.0 |
| 10°-20° | 1585.1 | 3.0 |
| 20°-30° | 2603.0 | 5.0 |
| 30°-40° | 3691.6 | 7.0 |
| 40°-50° | 6101.9 | 11.6 |
| 50°-60° | 10961.3 | 20.9 |
| 60°-70° | 15220.3 | 29.0 |
| 70°-80° | 11040.3 | 21.0 |
| 80°-90° | 798.2 | 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° | 52544.0 | 100.0 |
| 0°-180° | 52544.0 | 100.0 |



REPORT NUMBER: P957050

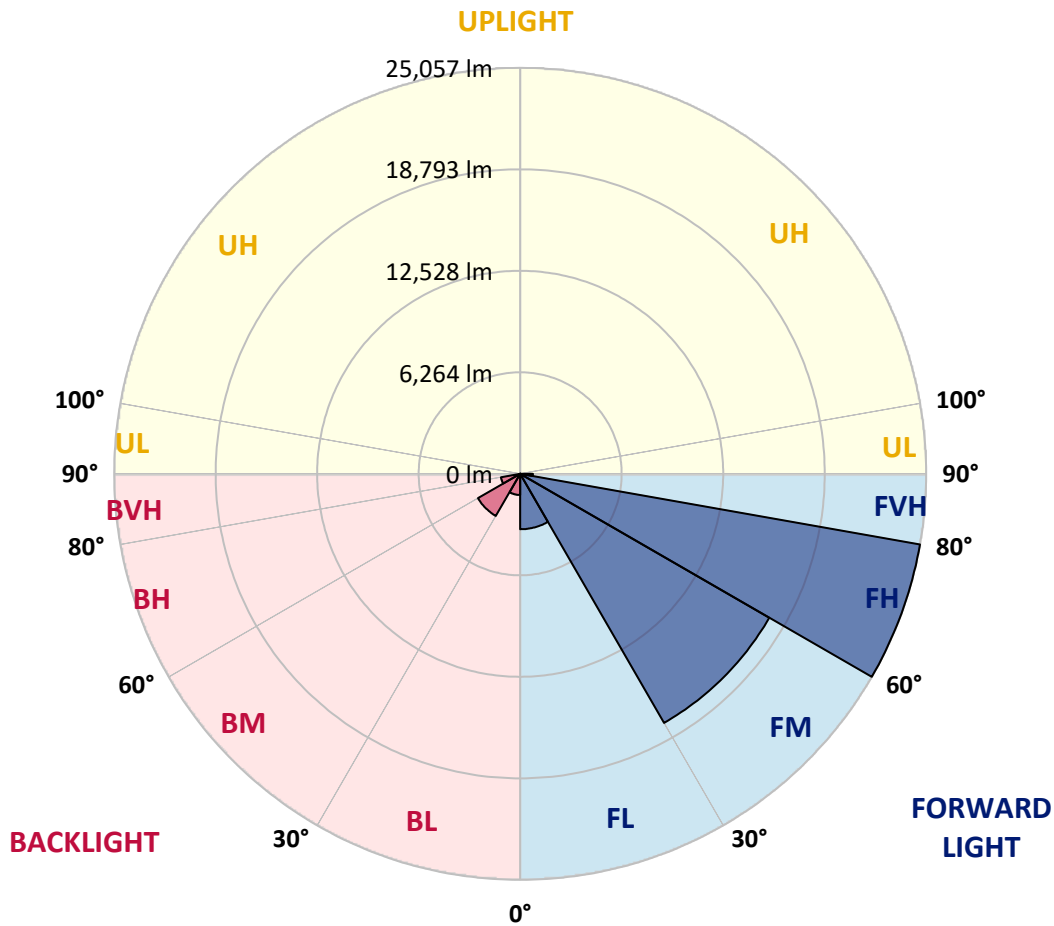
CATALOG NUMBER: GALN-SB9C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3422.7 | 6.5 | | | |
| FM (30°-60°) | 17752.2 | 33.8 | | | |
| FH (60°-80°) | 25056.7 | 47.7 | | | G5 |
| FVH (80°-90°) | 791.5 | 1.5 | | | G5 |
| BL (0°-30°) | 1307.7 | 2.5 | B3/2500 | | |
| BM (30°-60°) | 3002.6 | 5.7 | B3/5000 | | |
| BH (60°-80°) | 1203.9 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 6.7 | 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 IV Short



REPORT NUMBER: P957050

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 |
| 2.5° | 6287.1 | 6297.9 | 6290.7 | 6247.7 | 6175.9 | 6136.5 | 6115.0 | 6043.2 | 5996.6 | 5914.1 |
| 5° | 6864.5 | 6907.6 | 6882.5 | 6796.4 | 6660.1 | 6563.3 | 6534.6 | 6387.5 | 6254.8 | 6100.6 |
| 7.5° | 7477.8 | 7499.3 | 7452.7 | 7341.5 | 7158.6 | 6993.6 | 6968.5 | 6764.1 | 6552.5 | 6315.8 |
| 10° | 8008.6 | 8033.7 | 7962.0 | 7800.6 | 7592.6 | 7388.2 | 7352.3 | 7126.3 | 6875.3 | 6584.8 |
| 12.5° | 8453.3 | 8478.4 | 8385.2 | 8191.5 | 7962.0 | 7750.4 | 7714.5 | 7477.8 | 7201.7 | 6878.9 |
| 15° | 8790.5 | 8837.1 | 8711.6 | 8503.6 | 8256.1 | 8044.5 | 8026.6 | 7793.4 | 7524.4 | 7165.8 |
| 17.5° | 8987.7 | 9034.4 | 8916.0 | 8664.9 | 8453.3 | 8274.0 | 8252.5 | 8058.8 | 7807.8 | 7463.5 |
| 20° | 9020.0 | 9063.0 | 8937.5 | 8718.7 | 8543.0 | 8399.5 | 8388.8 | 8248.9 | 8066.0 | 7736.0 |
| 22.5° | 8923.2 | 8977.0 | 8862.2 | 8686.5 | 8564.5 | 8489.2 | 8474.9 | 8396.0 | 8292.0 | 8012.2 |
| 25° | 8822.8 | 8865.8 | 8779.7 | 8625.5 | 8560.9 | 8553.8 | 8564.5 | 8550.2 | 8528.7 | 8292.0 |
| 27.5° | 8815.6 | 8862.2 | 8765.4 | 8618.3 | 8582.5 | 8657.8 | 8668.5 | 8736.7 | 8754.6 | 8546.6 |
| 30° | 8876.5 | 8908.8 | 8815.6 | 8661.4 | 8643.4 | 8815.6 | 8819.2 | 8941.1 | 8969.8 | 8761.8 |
| 32.5° | 9009.2 | 9045.1 | 8951.9 | 8725.9 | 8700.8 | 8941.1 | 8951.9 | 9113.3 | 9159.9 | 8991.3 |
| 35° | 9321.3 | 9364.3 | 9256.7 | 8905.2 | 8815.6 | 9059.5 | 9091.7 | 9281.8 | 9375.1 | 9235.2 |
| 37.5° | 10099.5 | 9974.0 | 9827.0 | 9267.5 | 9077.4 | 9246.0 | 9299.8 | 9522.1 | 9687.1 | 9525.7 |
| 40° | 12032.7 | 11638.1 | 11179.1 | 9884.4 | 9536.5 | 9644.1 | 9687.1 | 9909.5 | 10135.4 | 9977.6 |
| 42.5° | 14934.1 | 14467.9 | 13729.1 | 11304.6 | 10228.7 | 10282.4 | 10314.7 | 10508.4 | 10827.6 | 10702.1 |
| 45° | 17520.0 | 17351.4 | 16598.2 | 13729.1 | 11523.4 | 11258.0 | 11297.4 | 11397.8 | 11867.7 | 11821.1 |
| 47.5° | 19506.9 | 19410.1 | 18829.0 | 16512.2 | 13711.1 | 12452.3 | 12563.5 | 12610.1 | 13287.9 | 13452.9 |
| 50° | 21034.7 | 20998.9 | 20478.8 | 18986.8 | 16569.6 | 14213.2 | 14252.7 | 14152.3 | 15167.2 | 15576.1 |
| 52.5° | 22476.5 | 22598.4 | 22214.7 | 21285.8 | 19621.7 | 16519.3 | 16512.2 | 16038.8 | 17408.8 | 18025.7 |
| 55° | 23778.4 | 23821.4 | 23860.9 | 23631.3 | 22691.7 | 19144.7 | 19076.5 | 18301.8 | 20009.0 | 20647.4 |
| 57.5° | 25001.4 | 25019.3 | 25370.8 | 25840.6 | 25887.2 | 21963.6 | 21838.1 | 20909.2 | 22849.5 | 23305.0 |
| 60° | 25822.7 | 25905.2 | 26647.6 | 27953.1 | 28523.3 | 24872.3 | 24804.1 | 23857.3 | 25740.2 | 25951.8 |
| 62.5° | 24639.1 | 25141.3 | 27013.4 | 29602.8 | 31012.3 | 28096.5 | 28064.2 | 27174.8 | 28781.5 | 28609.4 |
| 65° | 19944.4 | 20794.4 | 24086.8 | 30718.2 | 33454.7 | 31697.3 | 31744.0 | 30797.1 | 31905.4 | 31345.9 |
| 67.5° | 13951.4 | 14848.0 | 18743.0 | 30807.9 | 36184.0 | 35925.8 | 36194.8 | 34710.0 | 35222.9 | 33967.6 |
| 70° | 9647.6 | 10110.3 | 12645.9 | 28878.4 | 38310.8 | 41750.3 | 41743.1 | 39515.9 | 38522.4 | 35161.9 |
| 72.5° | 6487.9 | 6728.2 | 8213.0 | 22910.5 | 36747.1 | 45211.2 | 45003.2 | 43188.4 | 39634.2 | 32884.5 |
| 75° | 2736.5 | 2912.2 | 3801.7 | 12875.5 | 29072.0 | 41362.9 | 40799.8 | 38167.4 | 35215.7 | 25894.4 |
| 77.5° | 867.9 | 943.2 | 1499.2 | 4608.6 | 16013.7 | 31091.2 | 30495.9 | 23835.8 | 23602.7 | 12990.2 |
| 80° | 412.4 | 480.6 | 842.8 | 1850.6 | 6301.5 | 16910.3 | 16827.8 | 10813.2 | 10153.3 | 3507.6 |
| 82.5° | 179.3 | 211.6 | 466.2 | 989.9 | 2819.0 | 6032.5 | 6154.4 | 3679.7 | 3044.9 | 1330.6 |
| 85° | 57.4 | 75.3 | 215.2 | 455.5 | 1190.7 | 1499.2 | 1481.2 | 875.1 | 1226.6 | 724.5 |
| 87.5° | 0.0 | 0.0 | 71.7 | 104.0 | 121.9 | 86.1 | 96.8 | 75.3 | 340.7 | 200.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P957050
 CATALOG NUMBER: GALN-SB9C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5756.3 | 0° | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 | 5756.3 |
| 5828.0 | 2.5° | 5785.0 | 5727.6 | 5627.2 | 5533.9 | 5451.5 | 5369.0 | 5318.8 | 5247.0 | 5239.9 | 5239.9 |
| 5921.3 | 5° | 5824.5 | 5731.2 | 5551.9 | 5361.8 | 5143.0 | 4935.0 | 4727.0 | 4526.1 | 4461.6 | 4415.0 |
| 6071.9 | 7.5° | 5939.2 | 5792.2 | 5508.8 | 5146.6 | 4730.6 | 4275.1 | 3955.9 | 3611.6 | 3478.9 | 3407.2 |
| 6272.8 | 10° | 6104.2 | 5903.4 | 5473.0 | 4838.2 | 4163.9 | 3543.4 | 3088.0 | 2715.0 | 2571.5 | 2510.5 |
| 6491.5 | 12.5° | 6287.1 | 6039.6 | 5408.4 | 4454.4 | 3543.4 | 2801.0 | 2356.3 | 2184.2 | 2162.6 | 2162.6 |
| 6753.3 | 15° | 6505.9 | 6204.6 | 5297.2 | 4002.5 | 2894.3 | 2216.4 | 2058.6 | 2065.8 | 2087.3 | 2101.7 |
| 7008.0 | 17.5° | 6731.8 | 6380.4 | 5121.5 | 3496.8 | 2320.5 | 1994.1 | 1997.7 | 2008.4 | 2026.4 | 2040.7 |
| 7284.1 | 20° | 6975.7 | 6556.1 | 4888.4 | 2958.8 | 1990.5 | 1929.5 | 1940.3 | 1951.0 | 1965.4 | 1972.6 |
| 7542.4 | 22.5° | 7237.5 | 6721.1 | 4612.2 | 2431.6 | 1879.3 | 1875.7 | 1879.3 | 1890.1 | 1908.0 | 1908.0 |
| 7843.6 | 25° | 7517.3 | 6904.0 | 4296.6 | 2047.9 | 1821.9 | 1821.9 | 1829.1 | 1836.3 | 1850.6 | 1850.6 |
| 8134.1 | 27.5° | 7804.2 | 7072.5 | 3963.1 | 1847.0 | 1771.7 | 1768.1 | 1768.1 | 1778.9 | 1786.1 | 1789.7 |
| 8421.1 | 30° | 8119.8 | 7269.8 | 3629.5 | 1804.0 | 1732.3 | 1714.3 | 1703.6 | 1710.8 | 1717.9 | 1721.5 |
| 8722.3 | 32.5° | 8442.6 | 7459.9 | 3331.8 | 1821.9 | 1692.8 | 1660.5 | 1624.7 | 1617.5 | 1617.5 | 1631.9 |
| 9034.4 | 35° | 8801.2 | 7667.9 | 3102.3 | 1882.9 | 1671.3 | 1581.6 | 1524.3 | 1492.0 | 1495.6 | 1517.1 |
| 9407.3 | 37.5° | 9231.6 | 7919.0 | 2933.7 | 1936.7 | 1657.0 | 1492.0 | 1398.7 | 1359.3 | 1334.2 | 1359.3 |
| 9920.2 | 40° | 9794.7 | 8288.4 | 2811.8 | 1979.7 | 1639.0 | 1388.0 | 1262.4 | 1197.9 | 1151.3 | 1165.6 |
| 10716.4 | 42.5° | 10623.2 | 8869.4 | 2765.2 | 1983.3 | 1599.6 | 1266.0 | 1122.6 | 1036.5 | 968.4 | 971.9 |
| 11914.3 | 45° | 11785.2 | 9787.5 | 3005.5 | 1936.7 | 1513.5 | 1133.3 | 975.5 | 860.8 | 817.7 | 807.0 |
| 13704.0 | 47.5° | 13377.6 | 11125.3 | 3561.4 | 1839.9 | 1388.0 | 1004.2 | 832.1 | 735.2 | 703.0 | 685.0 |
| 16053.1 | 50° | 15511.5 | 12843.2 | 4178.3 | 1732.3 | 1262.4 | 882.3 | 713.7 | 652.7 | 631.2 | 613.3 |
| 18839.8 | 52.5° | 17986.2 | 14586.2 | 4683.9 | 1624.7 | 1136.9 | 774.7 | 638.4 | 602.5 | 584.6 | 570.3 |
| 21529.7 | 55° | 20256.5 | 15787.7 | 4655.3 | 1509.9 | 1015.0 | 688.6 | 584.6 | 563.1 | 541.6 | 527.2 |
| 23846.5 | 57.5° | 21669.5 | 15956.3 | 3837.5 | 1384.4 | 875.1 | 620.5 | 534.4 | 520.0 | 494.9 | 477.0 |
| 25851.4 | 60° | 22318.7 | 14995.1 | 2689.9 | 1219.4 | 735.2 | 555.9 | 480.6 | 473.4 | 441.1 | 416.0 |
| 27748.6 | 62.5° | 22437.0 | 13209.0 | 1793.2 | 1015.0 | 613.3 | 494.9 | 426.8 | 416.0 | 373.0 | 330.0 |
| 29290.8 | 65° | 21956.5 | 10655.4 | 1240.9 | 792.6 | 523.6 | 430.4 | 365.8 | 344.3 | 297.7 | 254.6 |
| 29656.6 | 67.5° | 20435.8 | 7481.4 | 864.3 | 570.3 | 444.7 | 340.7 | 290.5 | 283.3 | 247.5 | 211.6 |
| 27791.7 | 70° | 17649.1 | 4264.3 | 577.4 | 426.8 | 351.5 | 233.1 | 229.5 | 236.7 | 200.8 | 172.2 |
| 22706.0 | 72.5° | 13531.8 | 1951.0 | 358.6 | 312.0 | 240.3 | 157.8 | 182.9 | 186.5 | 154.2 | 129.1 |
| 14166.6 | 75° | 7965.6 | 835.7 | 225.9 | 200.8 | 121.9 | 104.0 | 132.7 | 136.3 | 104.0 | 82.5 |
| 5178.9 | 77.5° | 2711.4 | 315.6 | 143.5 | 118.4 | 61.0 | 57.4 | 86.1 | 86.1 | 57.4 | 32.3 |
| 1040.1 | 80° | 616.9 | 118.4 | 71.7 | 46.6 | 28.7 | 25.1 | 28.7 | 25.1 | 14.3 | 3.6 |
| 319.2 | 82.5° | 175.7 | 46.6 | 28.7 | 17.9 | 10.8 | 10.8 | 3.6 | 0.0 | 0.0 | 0.0 |
| 111.2 | 85° | 50.2 | 21.5 | 7.2 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39.5 | 87.5° | 21.5 | 3.6 | 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 |

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| <u>180°</u> |
|-------------|
| 5756.3 |
| 5257.8 |
| 4436.5 |
| 3417.9 |
| 2510.5 |
| 2162.6 |
| 2101.7 |
| 2040.7 |
| 1976.2 |
| 1915.2 |
| 1854.2 |
| 1793.2 |
| 1728.7 |
| 1642.6 |
| 1527.8 |
| 1352.1 |
| 1158.4 |
| 957.6 |
| 792.6 |
| 674.3 |
| 609.7 |
| 566.7 |
| 520.0 |
| 473.4 |
| 408.9 |
| 308.4 |
| 240.3 |
| 200.8 |
| 157.8 |
| 114.8 |
| 71.7 |
| 25.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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