

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: P956750

Luminaire Tested: **GALN-SB9B-760-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956750
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-SB9B-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 450mA 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: 45943 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

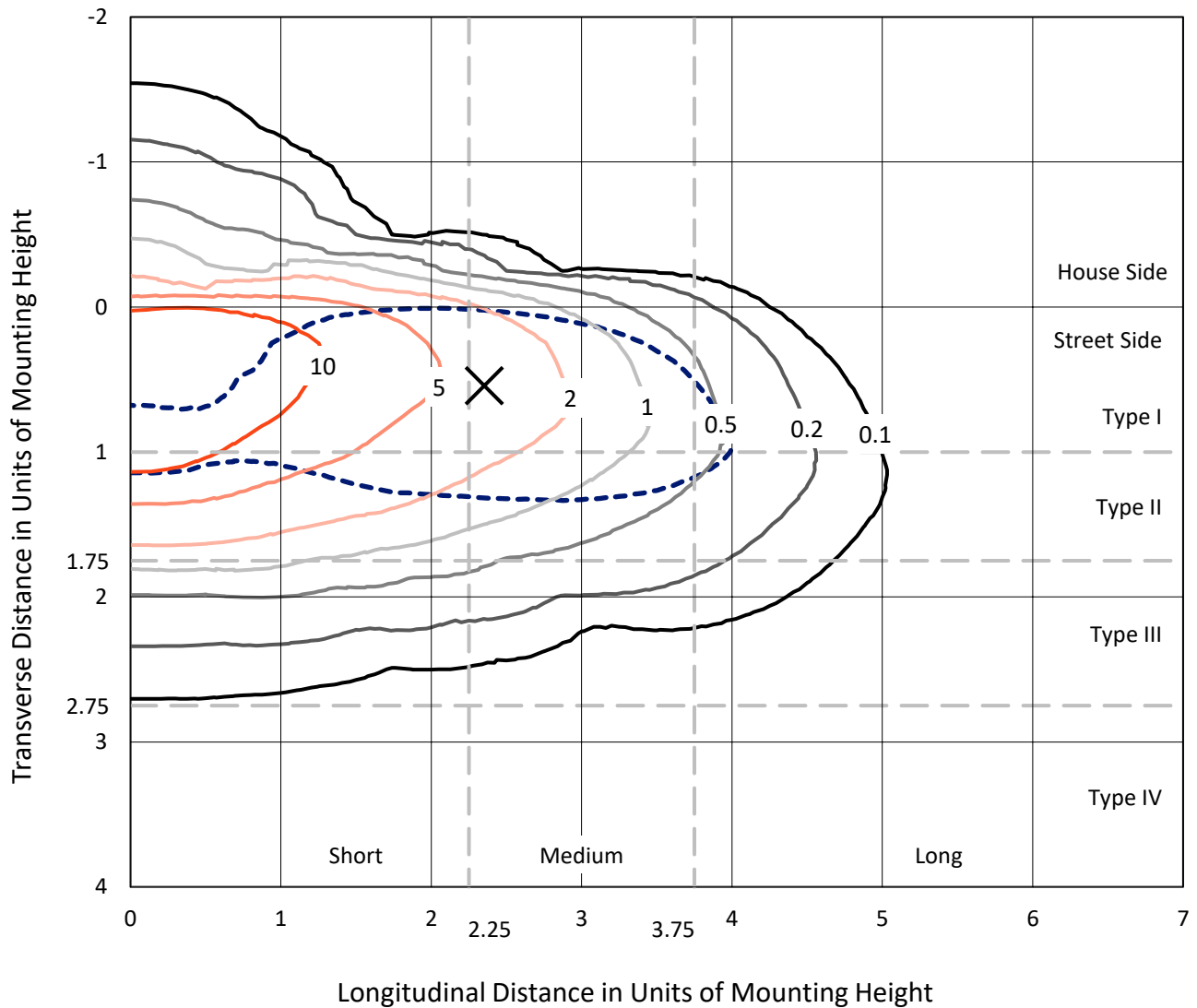
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

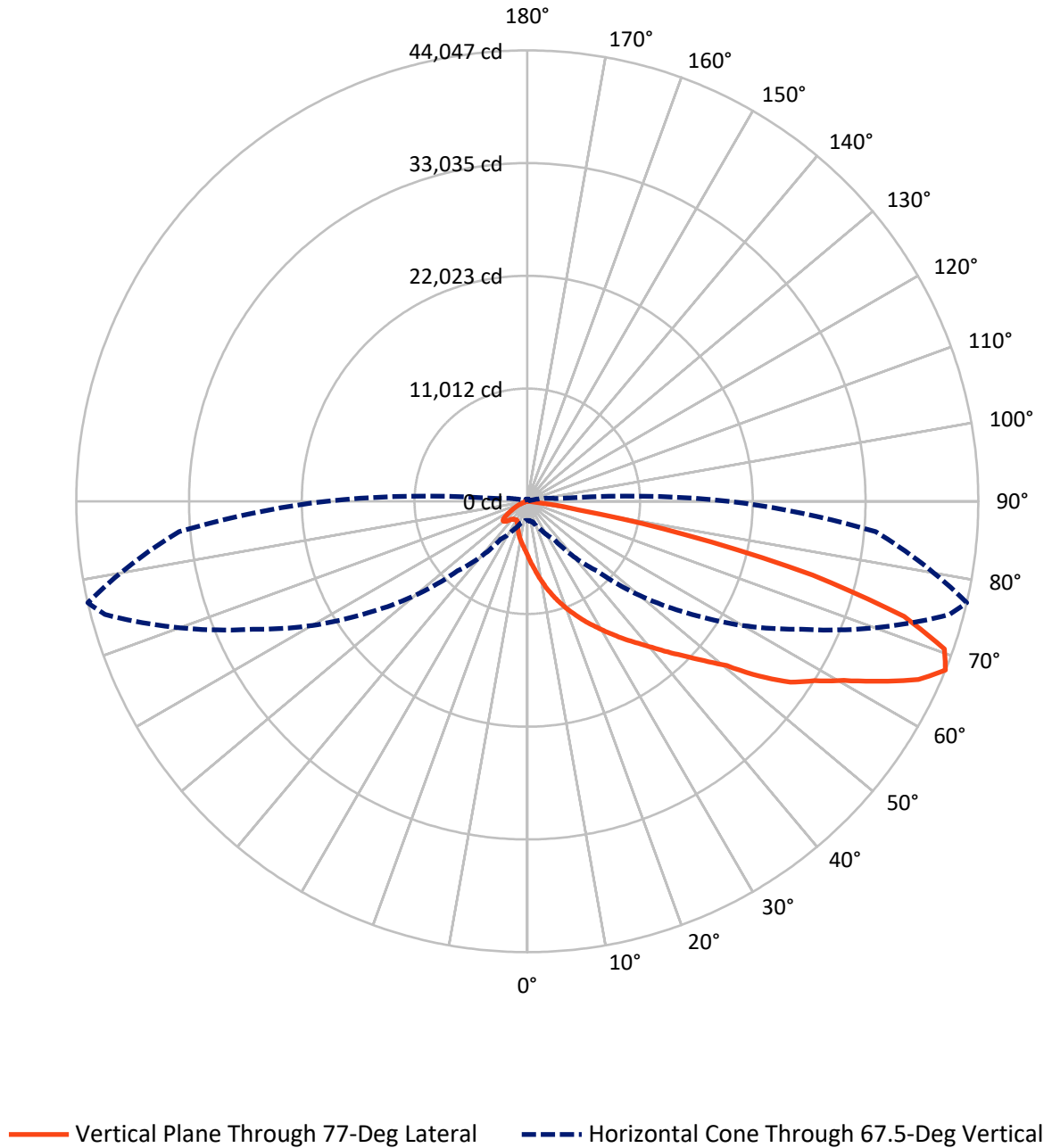
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3380.0 | 0.0 | 3380.0 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 42562.9 | 0.0 | 42562.9 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 45943.0 | 0.0 | 45943.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 540.7 | 1.2 |
| 10°-20° | 1893.6 | 4.1 |
| 20°-30° | 3654.1 | 8.0 |
| 30°-40° | 6343.8 | 13.8 |
| 40°-50° | 9210.8 | 20.0 |
| 50°-60° | 10577.5 | 23.0 |
| 60°-70° | 9183.2 | 20.0 |
| 70°-80° | 4325.4 | 9.4 |
| 80°-90° | 213.9 | 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° | 45943.0 | 100.0 |
| 0°-180° | 45943.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P956750

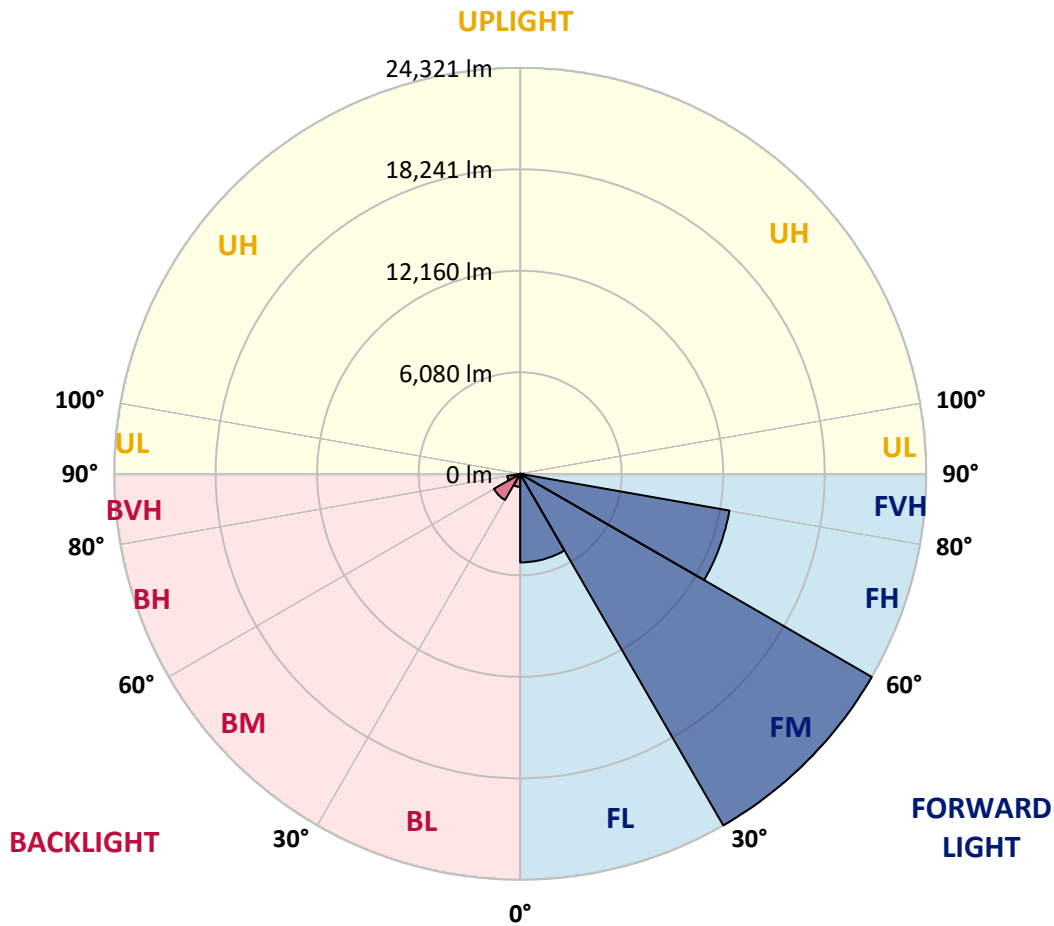
CATALOG NUMBER: GALN-SB9B-760-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5305.9 | 11.5 | | | |
| FM (30°-60°) | 24321.0 | 52.9 | | | |
| FH (60°-80°) | 12726.1 | 27.7 | | | G5 |
| FVH (80°-90°) | 210.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 782.5 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 1811.1 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 782.5 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 |
| 2.5° | 7334.9 | 7380.5 | 7314.9 | 7189.4 | 7001.1 | 6878.4 | 6578.9 | 6296.4 | 5982.6 | 5882.8 |
| 5° | 8941.1 | 8981.0 | 8906.9 | 8769.9 | 8518.9 | 8279.2 | 7885.5 | 7295.0 | 6681.6 | 6484.7 |
| 7.5° | 10130.8 | 10153.6 | 10125.1 | 9999.5 | 9759.9 | 9488.9 | 9049.5 | 8350.5 | 7440.5 | 7223.6 |
| 10° | 10986.7 | 11060.8 | 11052.3 | 11003.8 | 10844.0 | 10624.3 | 10156.5 | 9360.5 | 8290.6 | 8011.0 |
| 12.5° | 11554.4 | 11637.1 | 11685.6 | 11794.0 | 11785.5 | 11645.7 | 11234.9 | 10393.2 | 9138.0 | 8809.9 |
| 15° | 11719.9 | 11808.3 | 11993.7 | 12244.8 | 12467.3 | 12538.7 | 12250.5 | 11406.0 | 10070.9 | 9651.5 |
| 17.5° | 11625.7 | 11762.7 | 11985.2 | 12381.7 | 12869.6 | 13192.0 | 13160.6 | 12384.6 | 10918.2 | 10438.9 |
| 20° | 11834.0 | 11965.2 | 12139.2 | 12473.0 | 13040.8 | 13625.6 | 13859.6 | 13320.4 | 11759.8 | 11257.7 |
| 22.5° | 12986.6 | 12963.7 | 12980.9 | 13035.1 | 13374.6 | 13953.7 | 14435.9 | 14170.5 | 12592.9 | 12079.3 |
| 25° | 14812.4 | 14709.7 | 14535.7 | 14241.9 | 14156.3 | 14435.9 | 14938.0 | 14923.7 | 13471.6 | 12920.9 |
| 27.5° | 16906.5 | 16889.4 | 16481.4 | 15773.9 | 15374.5 | 15266.1 | 15505.7 | 15656.9 | 14341.7 | 13754.0 |
| 30° | 18912.1 | 18957.8 | 18407.1 | 17619.7 | 16886.5 | 16461.4 | 16244.6 | 16353.0 | 15226.1 | 14652.7 |
| 32.5° | 20658.1 | 20706.6 | 20107.5 | 19186.0 | 18278.8 | 17765.2 | 17308.8 | 17040.6 | 16190.4 | 15565.6 |
| 35° | 22133.1 | 22181.6 | 21494.0 | 20475.5 | 19508.4 | 19043.4 | 18527.0 | 17793.8 | 17160.4 | 16578.4 |
| 37.5° | 23451.1 | 23436.9 | 22515.4 | 21488.3 | 20538.3 | 20170.3 | 19899.2 | 18721.0 | 18158.9 | 17596.9 |
| 40° | 24230.0 | 24289.9 | 23502.5 | 22369.9 | 21448.4 | 21180.2 | 21163.1 | 19870.7 | 19311.5 | 18766.6 |
| 42.5° | 24458.2 | 24563.8 | 23993.2 | 23063.1 | 22227.2 | 21936.2 | 22384.1 | 21114.6 | 20652.4 | 20121.8 |
| 45° | 24047.4 | 24150.1 | 23890.5 | 23245.7 | 22757.9 | 22569.6 | 23434.0 | 22404.1 | 22084.6 | 21559.6 |
| 47.5° | 22849.2 | 22977.6 | 23040.3 | 22903.4 | 22897.7 | 23088.8 | 24375.5 | 23762.1 | 23784.9 | 23248.6 |
| 50° | 20529.7 | 20746.6 | 21322.8 | 21807.8 | 22558.2 | 23499.6 | 25291.3 | 25234.2 | 25702.1 | 25239.9 |
| 52.5° | 16313.1 | 16621.2 | 18606.9 | 19933.5 | 21619.6 | 23422.6 | 26298.4 | 27596.5 | 29065.7 | 28389.6 |
| 55° | 13109.2 | 13109.2 | 14724.0 | 17206.1 | 19788.0 | 22914.8 | 26737.7 | 29131.3 | 31356.6 | 31196.9 |
| 57.5° | 10687.1 | 10815.5 | 11845.4 | 14039.3 | 17137.6 | 21705.1 | 27008.8 | 30095.6 | 33202.5 | 33085.5 |
| 60° | 6596.0 | 6872.7 | 8818.4 | 10983.8 | 14122.0 | 19551.2 | 26837.6 | 31071.3 | 35442.0 | 35536.2 |
| 62.5° | 3714.5 | 3817.2 | 4684.5 | 7902.6 | 10981.0 | 16655.4 | 25528.1 | 31616.2 | 38306.4 | 38705.8 |
| 65° | 2564.8 | 2616.1 | 2949.9 | 4918.5 | 7611.6 | 13260.4 | 22969.0 | 31276.7 | 41176.4 | 41983.8 |
| 67.5° | 1863.0 | 1888.6 | 2096.9 | 3004.1 | 4516.2 | 9614.4 | 18957.8 | 29565.0 | 42697.0 | 44046.5 |
| 70° | 1432.2 | 1449.3 | 1600.5 | 1974.2 | 2667.5 | 5934.1 | 13768.3 | 26161.4 | 41595.8 | 43207.7 |
| 72.5° | 1164.0 | 1181.1 | 1298.1 | 1460.7 | 1768.8 | 3509.1 | 8344.8 | 21245.8 | 36734.4 | 38474.7 |
| 75° | 981.4 | 1004.2 | 1109.8 | 1215.4 | 1386.5 | 2253.8 | 3914.2 | 14795.3 | 27625.0 | 28766.2 |
| 77.5° | 544.9 | 502.1 | 901.5 | 1007.1 | 1169.7 | 1426.5 | 1831.6 | 8707.2 | 15471.5 | 15788.2 |
| 80° | 339.5 | 350.9 | 716.1 | 810.2 | 898.7 | 718.9 | 838.8 | 3352.2 | 5363.5 | 5095.3 |
| 82.5° | 20.0 | 45.6 | 550.6 | 584.9 | 616.2 | 308.1 | 316.7 | 1138.3 | 1292.4 | 1186.8 |
| 85° | 0.0 | 0.0 | 251.1 | 202.6 | 214.0 | 88.4 | 91.3 | 265.3 | 174.0 | 188.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | 8.6 | 17.1 | 22.8 | 8.6 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P956750
 CATALOG NUMBER: GALN-SB9B-760-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5297.9 | 0° | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 | 5297.9 |
| 5568.9 | 2.5° | 5369.2 | 5169.5 | 4764.4 | 4367.8 | 4045.5 | 3745.9 | 3531.9 | 3329.4 | 3226.7 | 3221.0 |
| 5928.4 | 5° | 5531.8 | 5112.5 | 4302.2 | 3586.1 | 3009.8 | 2547.7 | 2248.1 | 2034.1 | 1925.7 | 1888.6 |
| 6370.6 | 7.5° | 5760.1 | 5129.6 | 3897.1 | 2901.4 | 2222.4 | 1825.9 | 1654.7 | 1586.2 | 1563.4 | 1537.7 |
| 6869.9 | 10° | 6048.2 | 5169.5 | 3534.8 | 2336.6 | 1751.7 | 1552.0 | 1483.5 | 1455.0 | 1437.9 | 1420.8 |
| 7431.9 | 12.5° | 6370.6 | 5206.6 | 3175.3 | 1940.0 | 1540.6 | 1437.9 | 1389.4 | 1355.1 | 1332.3 | 1312.4 |
| 8008.2 | 15° | 6684.4 | 5229.4 | 2801.6 | 1663.3 | 1432.2 | 1349.4 | 1298.1 | 1261.0 | 1229.6 | 1206.8 |
| 8573.1 | 17.5° | 6995.4 | 5260.8 | 2450.7 | 1497.8 | 1343.7 | 1261.0 | 1209.6 | 1164.0 | 1138.3 | 1112.6 |
| 9166.5 | 20° | 7340.6 | 5255.1 | 2119.7 | 1380.8 | 1255.3 | 1172.6 | 1118.4 | 1075.6 | 1049.9 | 1021.4 |
| 9794.1 | 22.5° | 7660.1 | 5226.6 | 1828.7 | 1281.0 | 1164.0 | 1084.1 | 1024.2 | 981.4 | 955.7 | 932.9 |
| 10436.0 | 25° | 8028.2 | 5203.8 | 1586.2 | 1189.7 | 1078.4 | 998.5 | 932.9 | 893.0 | 864.4 | 844.5 |
| 11080.8 | 27.5° | 8381.9 | 5169.5 | 1409.4 | 1106.9 | 995.7 | 918.6 | 855.9 | 810.2 | 784.6 | 770.3 |
| 11745.5 | 30° | 8730.0 | 5161.0 | 1343.7 | 1027.1 | 921.5 | 844.5 | 781.7 | 738.9 | 718.9 | 713.2 |
| 12475.9 | 32.5° | 9149.4 | 5183.8 | 1372.3 | 998.5 | 853.0 | 776.0 | 716.1 | 684.7 | 664.7 | 664.7 |
| 13289.0 | 35° | 9597.3 | 5178.1 | 1415.1 | 1024.2 | 807.4 | 707.5 | 661.9 | 641.9 | 621.9 | 621.9 |
| 14190.5 | 37.5° | 10159.3 | 5186.6 | 1449.3 | 1067.0 | 790.3 | 650.5 | 624.8 | 599.1 | 587.7 | 587.7 |
| 15177.6 | 40° | 10998.1 | 5469.1 | 1432.2 | 1104.1 | 784.6 | 610.5 | 559.2 | 550.6 | 542.1 | 542.1 |
| 16293.1 | 42.5° | 12025.1 | 6082.5 | 1455.0 | 1106.9 | 781.7 | 582.0 | 513.5 | 530.6 | 510.7 | 507.8 |
| 17551.3 | 45° | 13149.2 | 6752.9 | 1600.5 | 1047.0 | 778.9 | 567.7 | 490.7 | 510.7 | 479.3 | 479.3 |
| 19009.1 | 47.5° | 14264.7 | 7417.6 | 1748.9 | 961.4 | 770.3 | 564.9 | 470.7 | 459.3 | 450.8 | 453.6 |
| 20909.2 | 50° | 15802.4 | 7959.7 | 1805.9 | 844.5 | 750.3 | 559.2 | 433.6 | 436.5 | 430.8 | 436.5 |
| 23588.1 | 52.5° | 17477.1 | 8073.8 | 1737.4 | 713.2 | 693.3 | 542.1 | 408.0 | 419.4 | 416.5 | 422.2 |
| 25473.9 | 55° | 18521.3 | 7951.1 | 1435.0 | 593.4 | 604.8 | 473.6 | 382.3 | 405.1 | 405.1 | 405.1 |
| 27316.9 | 57.5° | 19599.7 | 7429.0 | 1018.5 | 482.1 | 502.1 | 388.0 | 359.5 | 390.9 | 388.0 | 385.1 |
| 29536.5 | 60° | 20375.7 | 6584.6 | 670.4 | 396.6 | 399.4 | 319.5 | 333.8 | 368.0 | 365.2 | 350.9 |
| 31824.5 | 62.5° | 20954.8 | 5651.7 | 430.8 | 336.6 | 305.3 | 288.1 | 305.3 | 333.8 | 322.4 | 291.0 |
| 33764.5 | 65° | 20889.2 | 4359.3 | 330.9 | 288.1 | 251.1 | 251.1 | 265.3 | 291.0 | 256.8 | 205.4 |
| 34135.4 | 67.5° | 19671.0 | 2949.9 | 273.9 | 242.5 | 211.1 | 208.3 | 219.7 | 242.5 | 219.7 | 174.0 |
| 32235.3 | 70° | 17494.2 | 1928.6 | 219.7 | 188.3 | 168.3 | 154.1 | 176.9 | 208.3 | 185.4 | 139.8 |
| 27442.4 | 72.5° | 14199.1 | 1175.4 | 165.5 | 136.9 | 122.7 | 99.9 | 139.8 | 171.2 | 148.4 | 102.7 |
| 19083.3 | 75° | 9186.5 | 599.1 | 114.1 | 88.4 | 65.6 | 59.9 | 102.7 | 128.4 | 102.7 | 62.8 |
| 8467.5 | 77.5° | 3514.8 | 251.1 | 62.8 | 39.9 | 34.2 | 28.5 | 57.1 | 77.0 | 42.8 | 14.3 |
| 1640.4 | 80° | 676.1 | 105.6 | 31.4 | 20.0 | 17.1 | 11.4 | 8.6 | 5.7 | 0.0 | 0.0 |
| 291.0 | 82.5° | 117.0 | 34.2 | 11.4 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.1 | 85° | 39.9 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.0 | 87.5° | 14.3 | 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 |

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|--------|
| 180° |
| 5297.9 |
| 3215.3 |
| 1882.9 |
| 1532.0 |
| 1415.1 |
| 1306.6 |
| 1203.9 |
| 1109.8 |
| 1018.5 |
| 930.1 |
| 841.6 |
| 770.3 |
| 710.4 |
| 664.7 |
| 621.9 |
| 587.7 |
| 542.1 |
| 505.0 |
| 479.3 |
| 453.6 |
| 436.5 |
| 422.2 |
| 405.1 |
| 385.1 |
| 350.9 |
| 285.3 |
| 199.7 |
| 168.3 |
| 134.1 |
| 97.0 |
| 54.2 |
| 11.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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