

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: P533882

Luminaire Tested: **GALN-SA9B-750-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-750-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43269 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

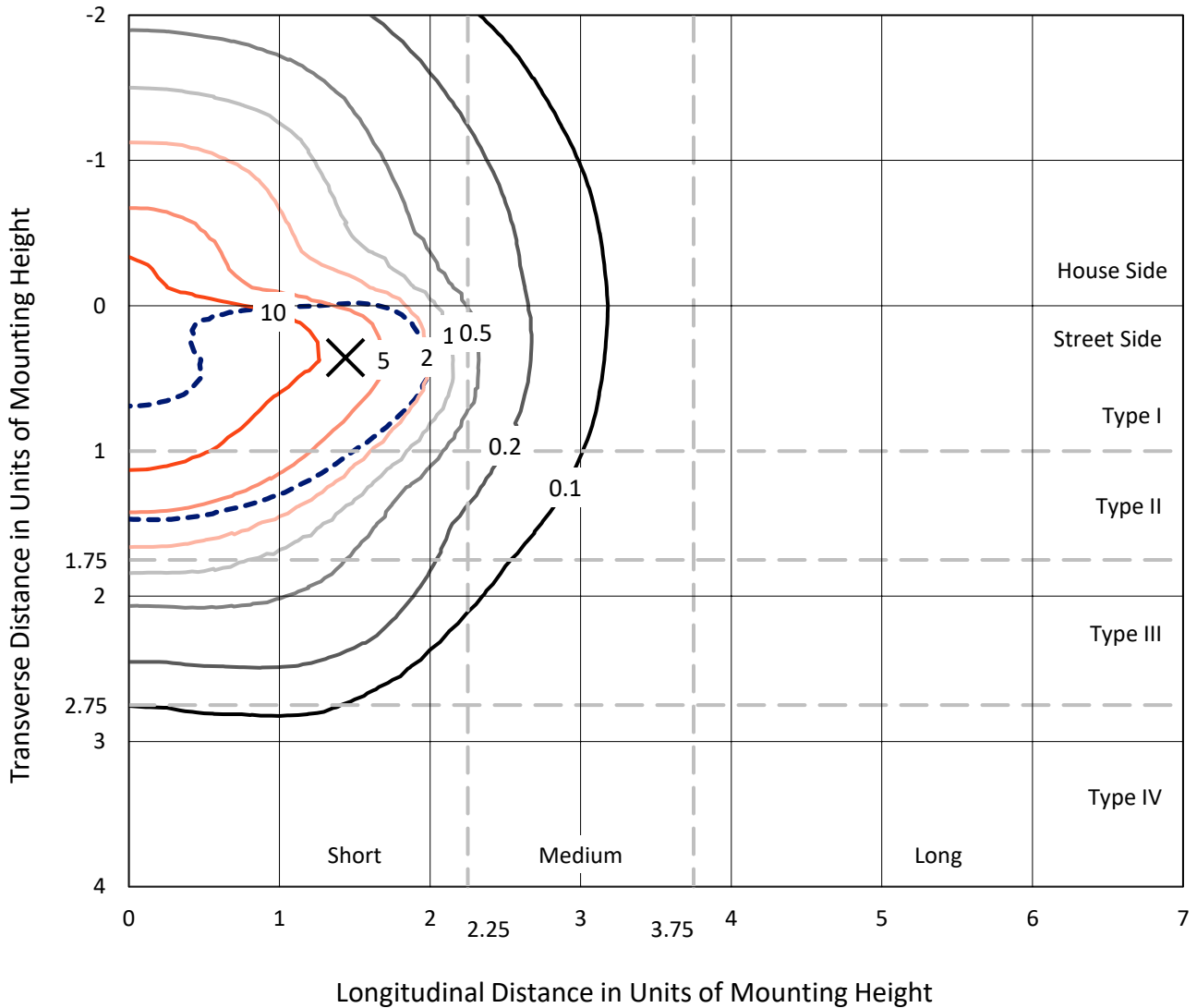
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

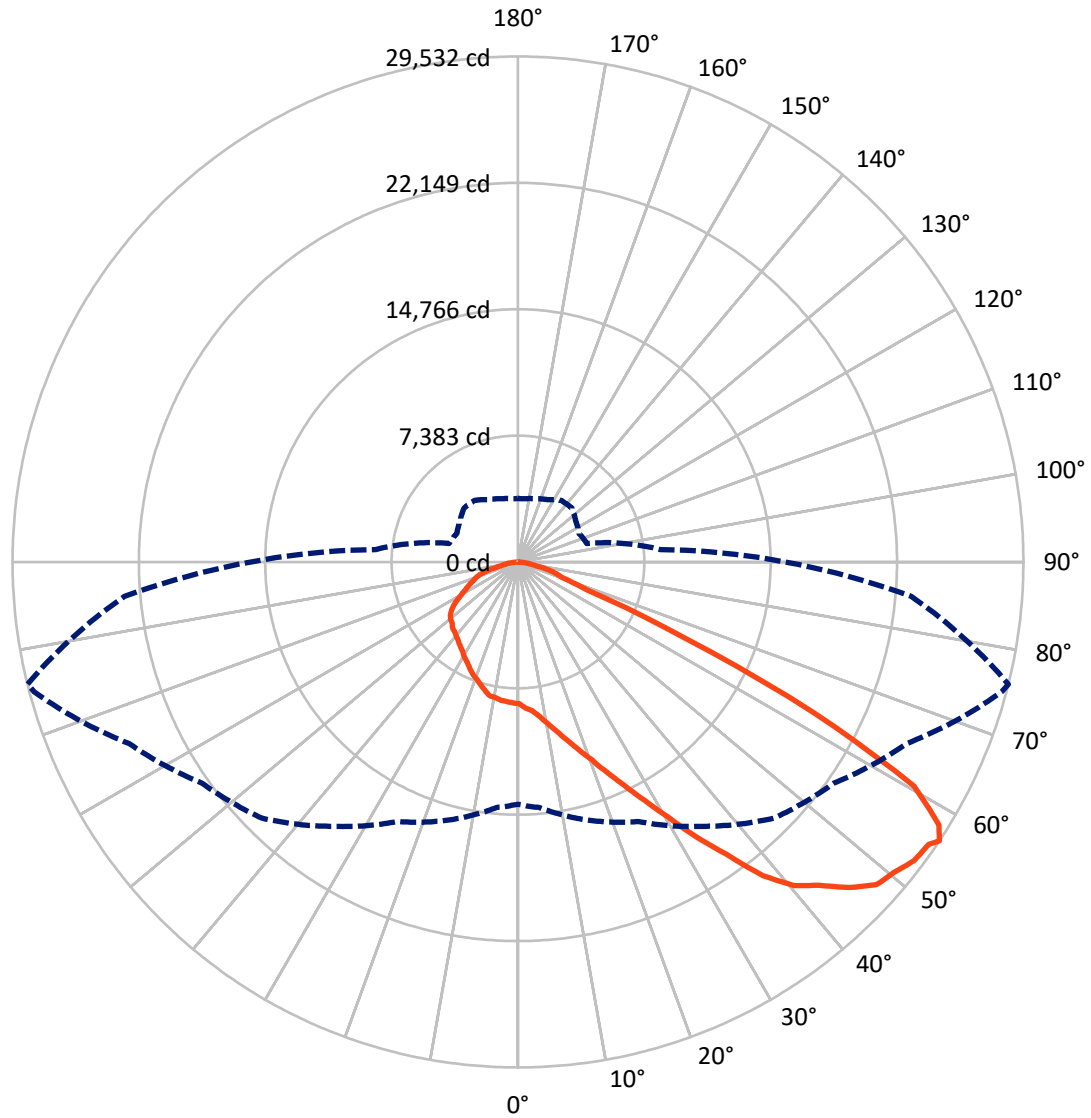
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11633.7 | 0.0 | 11633.7 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 31635.3 | 0.0 | 31635.3 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 43269.0 | 0.0 | 43269.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 821.0 | 1.9 |
| 10°-20° | 2579.1 | 6.0 |
| 20°-30° | 4510.5 | 10.4 |
| 30°-40° | 7062.1 | 16.3 |
| 40°-50° | 10273.4 | 23.7 |
| 50°-60° | 11291.1 | 26.1 |
| 60°-70° | 5039.9 | 11.6 |
| 70°-80° | 1455.7 | 3.4 |
| 80°-90° | 236.1 | 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° | 43269.0 | 100.0 |
| 0°-180° | 43269.0 | 100.0 |

Coefficient of Utilization



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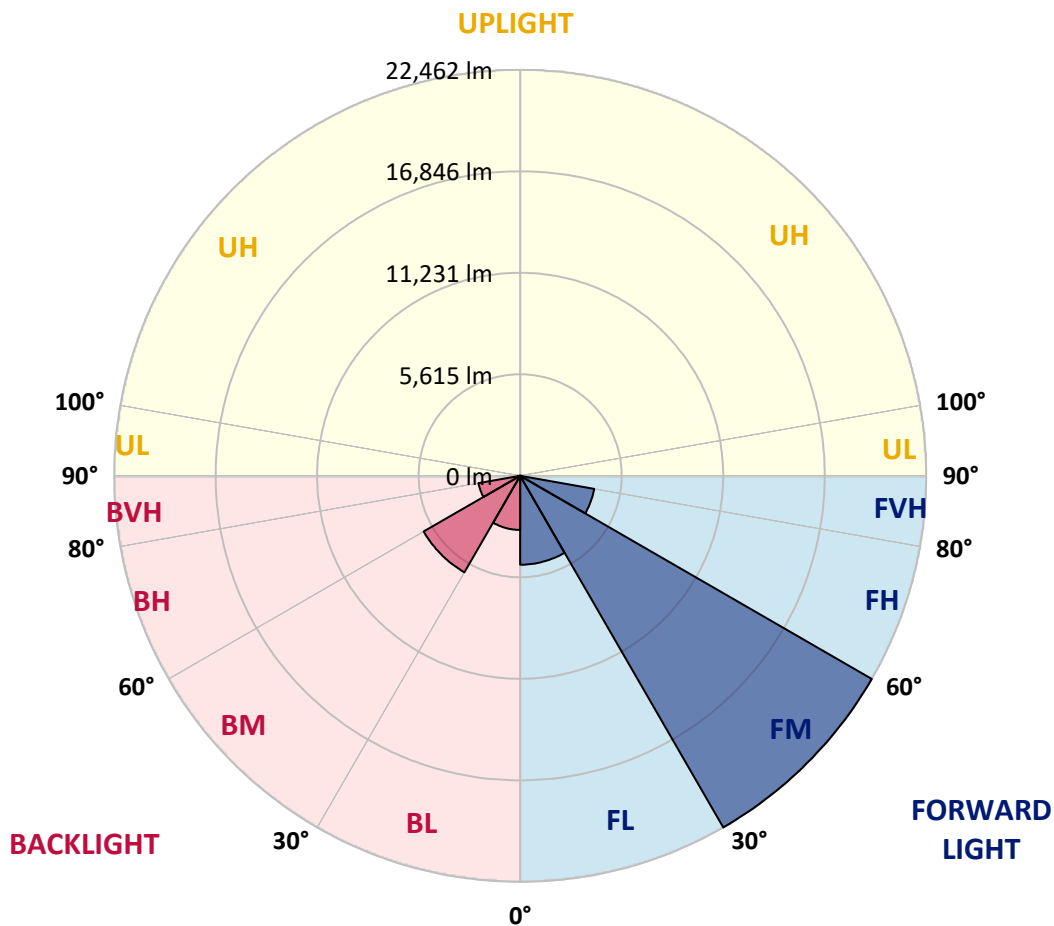
CATALOG NUMBER: GALN-SA9B-750-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4917.0 | 11.4 | | | |
| FM (30°-60°) | 22461.7 | 51.9 | | | |
| FH (60°-80°) | 4154.8 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 101.6 | 0.2 | | | G2/225 |
| BL (0°-30°) | 2993.6 | 6.9 | B4/5000 | | |
| BM (30°-60°) | 6164.9 | 14.2 | B4/8500 | | |
| BH (60°-80°) | 2340.7 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 134.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 |
| 2.5° | 9120.3 | 8974.5 | 8963.3 | 8924.0 | 8946.4 | 8845.5 | 8738.9 | 8598.7 | 8452.8 | 8542.6 | 8329.4 |
| 5° | 9759.8 | 9563.4 | 9642.0 | 9507.4 | 9524.2 | 9389.6 | 9170.8 | 9008.1 | 8828.7 | 8722.1 | 8570.6 |
| 7.5° | 9984.1 | 10000.9 | 10057.0 | 10034.6 | 9922.4 | 9922.4 | 9776.6 | 9490.5 | 9176.4 | 9114.7 | 8862.3 |
| 10° | 10287.0 | 10292.6 | 10230.9 | 10247.7 | 10404.8 | 10331.9 | 10202.9 | 10079.5 | 9675.6 | 9602.7 | 9154.0 |
| 12.5° | 10393.6 | 10292.6 | 10393.6 | 10483.3 | 10668.4 | 10769.4 | 10741.3 | 10651.6 | 10219.7 | 10169.2 | 9513.0 |
| 15° | 10410.4 | 10348.7 | 10432.8 | 10634.8 | 10797.4 | 11223.7 | 11436.9 | 11375.2 | 10803.0 | 10808.7 | 9916.8 |
| 17.5° | 10331.9 | 10416.0 | 10449.7 | 10623.6 | 10999.4 | 11397.6 | 12014.6 | 12098.7 | 11627.6 | 11554.7 | 10427.2 |
| 20° | 10438.5 | 10376.8 | 10421.6 | 10578.7 | 11077.9 | 11700.5 | 12508.2 | 13063.5 | 12401.6 | 12351.1 | 10954.5 |
| 22.5° | 10847.9 | 10763.8 | 10752.6 | 10853.5 | 11212.5 | 11857.5 | 13029.8 | 14028.3 | 13343.9 | 13372.0 | 11610.7 |
| 25° | 11167.6 | 11212.5 | 11173.2 | 11167.6 | 11392.0 | 12093.1 | 13719.8 | 15178.1 | 14622.8 | 14460.1 | 12384.8 |
| 27.5° | 11717.3 | 11823.9 | 11745.4 | 11851.9 | 11801.5 | 12446.5 | 14213.3 | 16451.4 | 16002.6 | 15783.9 | 13085.9 |
| 30° | 12480.2 | 12536.2 | 12463.3 | 12463.3 | 12311.9 | 12940.1 | 14662.1 | 17780.7 | 17595.6 | 17298.3 | 13910.5 |
| 32.5° | 13484.2 | 13568.3 | 13422.5 | 13338.3 | 13315.9 | 13674.9 | 15469.8 | 19093.2 | 19407.3 | 19154.9 | 15004.2 |
| 35° | 14813.5 | 14763.0 | 14589.2 | 14510.6 | 14207.7 | 14802.3 | 16670.1 | 20602.1 | 21426.6 | 20977.9 | 16328.0 |
| 37.5° | 15985.8 | 15907.3 | 15896.1 | 15458.6 | 15531.5 | 16019.5 | 17691.0 | 21746.3 | 23384.2 | 23255.1 | 17724.6 |
| 40° | 17079.6 | 17152.5 | 17270.3 | 17023.5 | 16911.3 | 17449.8 | 18880.1 | 22621.3 | 24904.2 | 24853.7 | 18801.6 |
| 42.5° | 18251.9 | 18184.6 | 18392.1 | 18184.6 | 18016.3 | 18779.1 | 20170.2 | 23227.1 | 26239.2 | 25824.1 | 19929.0 |
| 45° | 19951.4 | 19738.3 | 19811.2 | 19828.0 | 19704.6 | 19985.1 | 20703.0 | 23664.6 | 27175.9 | 27131.0 | 20753.5 |
| 47.5° | 21370.5 | 21376.1 | 21252.7 | 21157.4 | 20781.6 | 21062.0 | 21297.6 | 23939.5 | 28252.8 | 28179.9 | 21073.2 |
| 50° | 21897.8 | 21824.8 | 22183.8 | 22391.4 | 22413.8 | 21841.7 | 21763.1 | 24090.9 | 28819.3 | 28499.6 | 21392.9 |
| 52.5° | 20001.9 | 20069.2 | 20635.7 | 21869.7 | 22582.1 | 22643.8 | 22307.2 | 24405.0 | 29049.3 | 28982.0 | 21651.0 |
| 55° | 16098.0 | 16423.3 | 17354.4 | 18779.1 | 20467.4 | 22324.0 | 22896.2 | 24730.3 | 29172.7 | 29116.6 | 22795.2 |
| 56° | 14151.6 | 14404.1 | 15615.6 | 16731.8 | 18852.0 | 21163.0 | 22526.0 | 25078.1 | 29268.1 | 29531.7 | 23064.4 |
| 57.5° | 11392.0 | 11683.7 | 12553.1 | 13820.7 | 16322.4 | 18953.0 | 21505.1 | 24651.8 | 28897.9 | 28998.8 | 23260.8 |
| 60° | 7123.5 | 7151.5 | 8194.8 | 9030.6 | 10791.8 | 13360.8 | 16412.1 | 21449.0 | 26744.0 | 26598.1 | 20893.7 |
| 62.5° | 4672.3 | 4678.0 | 5625.9 | 6310.2 | 7112.3 | 7701.2 | 9658.8 | 14224.6 | 19732.7 | 19474.6 | 14875.2 |
| 65° | 3281.3 | 3354.2 | 4089.0 | 5003.3 | 5328.6 | 5020.1 | 4958.4 | 7499.3 | 11021.8 | 10651.6 | 7992.9 |
| 67.5° | 2400.7 | 2406.3 | 3056.9 | 4038.5 | 4509.7 | 3819.8 | 3101.8 | 3662.7 | 4363.8 | 4352.6 | 3702.0 |
| 70° | 1587.4 | 1654.7 | 2153.9 | 3017.7 | 3556.1 | 3068.2 | 2535.3 | 2619.4 | 2776.5 | 2776.5 | 2754.0 |
| 72.5° | 925.5 | 987.2 | 1318.1 | 1912.7 | 1996.8 | 1918.3 | 2008.0 | 2243.6 | 2344.6 | 2339.0 | 2310.9 |
| 75° | 527.3 | 555.3 | 628.2 | 796.5 | 992.8 | 1172.3 | 1475.2 | 1699.5 | 1800.5 | 1862.2 | 1789.3 |
| 77.5° | 308.5 | 325.3 | 370.2 | 454.3 | 516.0 | 633.8 | 802.1 | 959.1 | 1093.8 | 1076.9 | 1088.2 |
| 80° | 162.7 | 162.7 | 207.5 | 269.2 | 359.0 | 448.7 | 532.9 | 622.6 | 695.5 | 712.4 | 729.2 |
| 82.5° | 95.4 | 101.0 | 134.6 | 196.3 | 258.0 | 319.7 | 409.5 | 471.2 | 538.5 | 544.1 | 555.3 |
| 85° | 50.5 | 56.1 | 84.1 | 129.0 | 173.9 | 196.3 | 201.9 | 190.7 | 207.5 | 196.3 | 224.4 |
| 87.5° | 16.8 | 16.8 | 28.0 | 22.4 | 22.4 | 28.0 | 33.7 | 33.7 | 44.9 | 44.9 | 44.9 |
| 90° | 0.0 | 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-SA9B-750-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 | 8279.0 |
| 2.5° | 8323.8 | 8323.8 | 8228.5 | 8049.0 | 8021.0 | 7948.0 | 7880.7 | 7875.1 | 7824.6 | 7779.8 | 7757.3 |
| 5° | 8480.9 | 8307.0 | 8166.8 | 8004.1 | 7813.4 | 7723.7 | 7622.7 | 7510.5 | 7465.7 | 7510.5 | 7504.9 |
| 7.5° | 8660.4 | 8514.5 | 8093.9 | 7791.0 | 7572.2 | 7482.5 | 7370.3 | 7252.5 | 7263.7 | 7263.7 | 7185.2 |
| 10° | 8834.3 | 8637.9 | 7964.9 | 7577.8 | 7258.1 | 7190.8 | 7129.1 | 7174.0 | 7230.1 | 7241.3 | 7190.8 |
| 12.5° | 9125.9 | 8682.8 | 7903.2 | 7364.7 | 7162.8 | 7016.9 | 7056.2 | 7179.6 | 7297.4 | 7263.7 | 7303.0 |
| 15° | 9344.7 | 8722.1 | 7622.7 | 7145.9 | 6893.5 | 6960.8 | 7101.1 | 7185.2 | 7381.5 | 7359.1 | 7398.3 |
| 17.5° | 9557.8 | 8744.5 | 7347.9 | 6854.3 | 6747.7 | 6932.8 | 7039.4 | 7280.6 | 7342.3 | 7476.9 | 7527.4 |
| 20° | 9995.3 | 8789.4 | 7067.4 | 6674.8 | 6641.1 | 6854.3 | 7039.4 | 7151.5 | 7286.2 | 7404.0 | 7404.0 |
| 22.5° | 10219.7 | 8767.0 | 6882.3 | 6439.2 | 6545.8 | 6680.4 | 6848.7 | 7039.4 | 7039.4 | 7151.5 | 7157.2 |
| 25° | 10500.2 | 8677.2 | 6590.6 | 6327.0 | 6405.5 | 6534.6 | 6725.3 | 6658.0 | 6730.9 | 6730.9 | 6820.6 |
| 27.5° | 10819.9 | 8486.5 | 6338.2 | 6125.1 | 6282.1 | 6422.4 | 6450.4 | 6405.5 | 6321.4 | 6310.2 | 6276.5 |
| 30° | 11077.9 | 8250.9 | 6153.1 | 6057.8 | 6186.8 | 6265.3 | 6175.6 | 6080.2 | 5934.4 | 5923.2 | 5844.6 |
| 32.5° | 11431.3 | 7959.3 | 5923.2 | 5889.5 | 6035.3 | 6041.0 | 6012.9 | 5867.1 | 5653.9 | 5564.2 | 5474.4 |
| 35° | 12025.8 | 7791.0 | 5749.3 | 5799.8 | 5844.6 | 5827.8 | 5777.3 | 5620.3 | 5407.1 | 5367.9 | 5334.2 |
| 37.5° | 12463.3 | 7667.6 | 5569.8 | 5631.5 | 5670.8 | 5693.2 | 5541.7 | 5367.9 | 5373.5 | 5294.9 | 5272.5 |
| 40° | 12956.9 | 7589.1 | 5424.0 | 5452.0 | 5457.6 | 5530.5 | 5345.4 | 5261.3 | 5300.6 | 5250.1 | 5283.7 |
| 42.5° | 13590.7 | 7611.5 | 5272.5 | 5250.1 | 5356.6 | 5328.6 | 5238.9 | 5126.7 | 5149.1 | 4997.7 | 5020.1 |
| 45° | 13927.3 | 7762.9 | 5182.8 | 5081.8 | 5199.6 | 5194.0 | 5076.2 | 4969.6 | 4835.0 | 4543.3 | 4554.6 |
| 47.5° | 14151.6 | 7802.2 | 4969.6 | 4902.3 | 5025.7 | 5098.6 | 4964.0 | 4717.2 | 4526.5 | 4319.0 | 4268.5 |
| 50° | 14381.6 | 7875.1 | 4868.7 | 4728.4 | 4778.9 | 4952.8 | 4784.5 | 4548.9 | 4363.8 | 4178.7 | 4206.8 |
| 52.5° | 14583.5 | 8015.3 | 4672.3 | 4464.8 | 4554.6 | 4745.3 | 4655.5 | 4369.5 | 4167.5 | 4016.1 | 3971.2 |
| 55° | 15481.0 | 8329.4 | 4341.4 | 4072.2 | 4285.3 | 4526.5 | 4476.0 | 4128.3 | 3909.5 | 3831.0 | 3819.8 |
| 56° | 15621.2 | 8340.7 | 4167.5 | 3937.6 | 4133.9 | 4453.6 | 4391.9 | 4021.7 | 3825.4 | 3702.0 | 3707.6 |
| 57.5° | 15643.7 | 8206.0 | 3920.7 | 3814.2 | 3982.4 | 4347.0 | 4268.5 | 3937.6 | 3668.3 | 3556.1 | 3522.5 |
| 60° | 13764.6 | 6405.5 | 3612.2 | 3544.9 | 3741.2 | 4021.7 | 3993.6 | 3707.6 | 3404.7 | 3275.7 | 3337.4 |
| 62.5° | 9384.0 | 4694.8 | 3371.0 | 3359.8 | 3460.8 | 3735.6 | 3662.7 | 3404.7 | 3152.3 | 3068.2 | 3028.9 |
| 65° | 5463.2 | 3561.8 | 3135.5 | 3090.6 | 3174.7 | 3320.6 | 3371.0 | 3101.8 | 2838.2 | 2782.1 | 2765.3 |
| 67.5° | 3225.2 | 2944.8 | 2832.6 | 2759.7 | 2731.6 | 2821.4 | 2860.6 | 2703.6 | 2439.9 | 2361.4 | 2428.7 |
| 70° | 2698.0 | 2619.4 | 2625.0 | 2501.6 | 2434.3 | 2372.6 | 2339.0 | 2198.8 | 1980.0 | 1879.0 | 1851.0 |
| 72.5° | 2327.8 | 2294.1 | 2271.7 | 2159.5 | 2097.8 | 1957.6 | 1811.7 | 1671.5 | 1508.8 | 1424.7 | 1430.3 |
| 75° | 1778.1 | 1766.9 | 1778.1 | 1722.0 | 1615.4 | 1503.2 | 1368.6 | 1189.1 | 1065.7 | 959.1 | 981.6 |
| 77.5° | 1060.1 | 1093.8 | 1110.6 | 1088.2 | 1043.3 | 942.3 | 858.2 | 740.4 | 622.6 | 538.5 | 527.3 |
| 80° | 729.2 | 757.2 | 785.3 | 757.2 | 712.4 | 639.4 | 549.7 | 459.9 | 375.8 | 330.9 | 319.7 |
| 82.5° | 555.3 | 583.3 | 600.2 | 572.1 | 516.0 | 437.5 | 375.8 | 314.1 | 246.8 | 201.9 | 190.7 |
| 85° | 201.9 | 230.0 | 224.4 | 269.2 | 291.7 | 280.5 | 241.2 | 185.1 | 140.2 | 101.0 | 95.4 |
| 87.5° | 56.1 | 50.5 | 56.1 | 56.1 | 56.1 | 50.5 | 44.9 | 44.9 | 44.9 | 28.0 | 22.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)