

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: P457980

Luminaire Tested: **GALN-SA9B-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51879 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

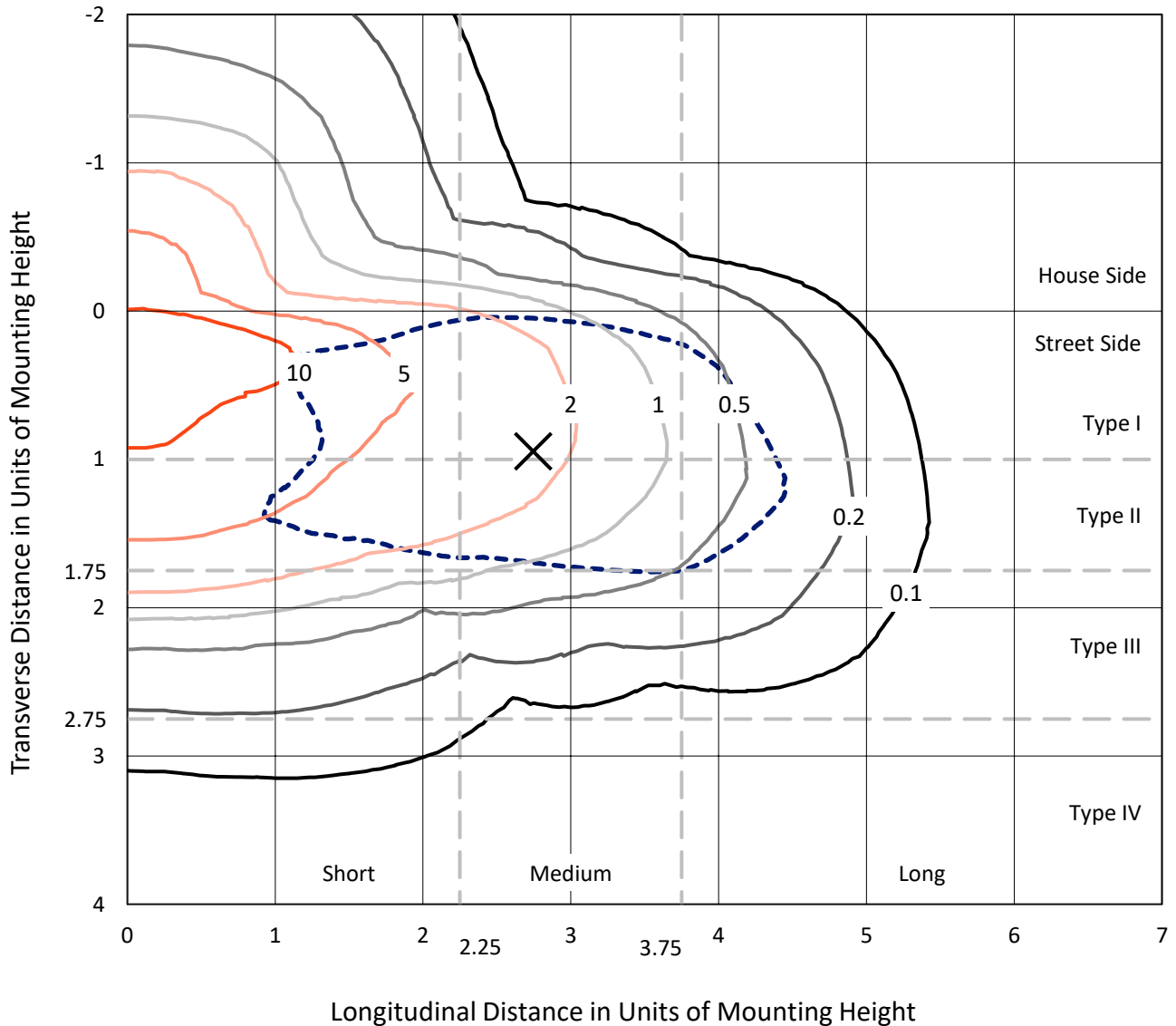
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457980
 CATALOG NUMBER: GALN-SA9B-760-U-T2

Iso-Footcandle Lines of Horizontal Illumination

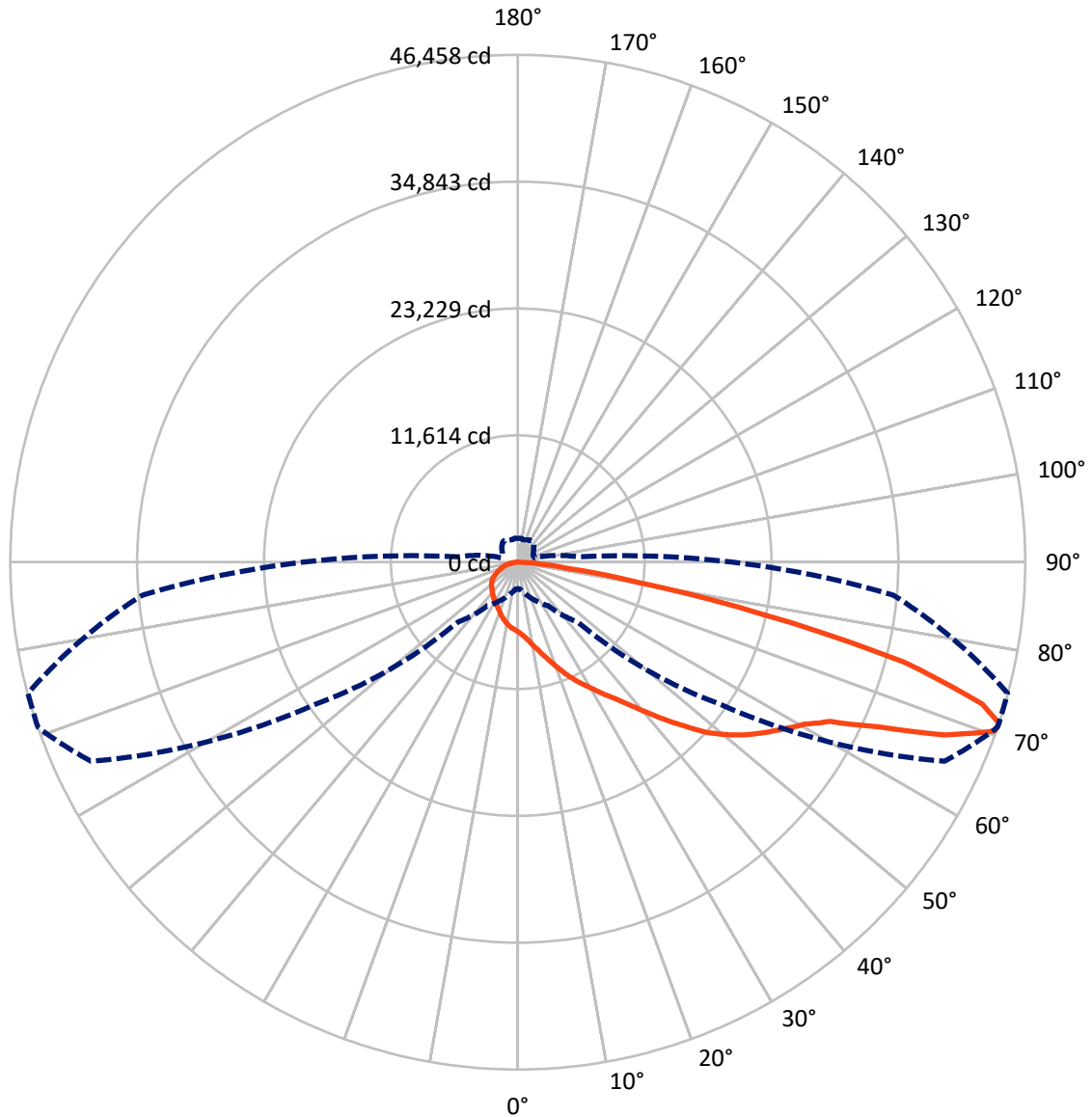
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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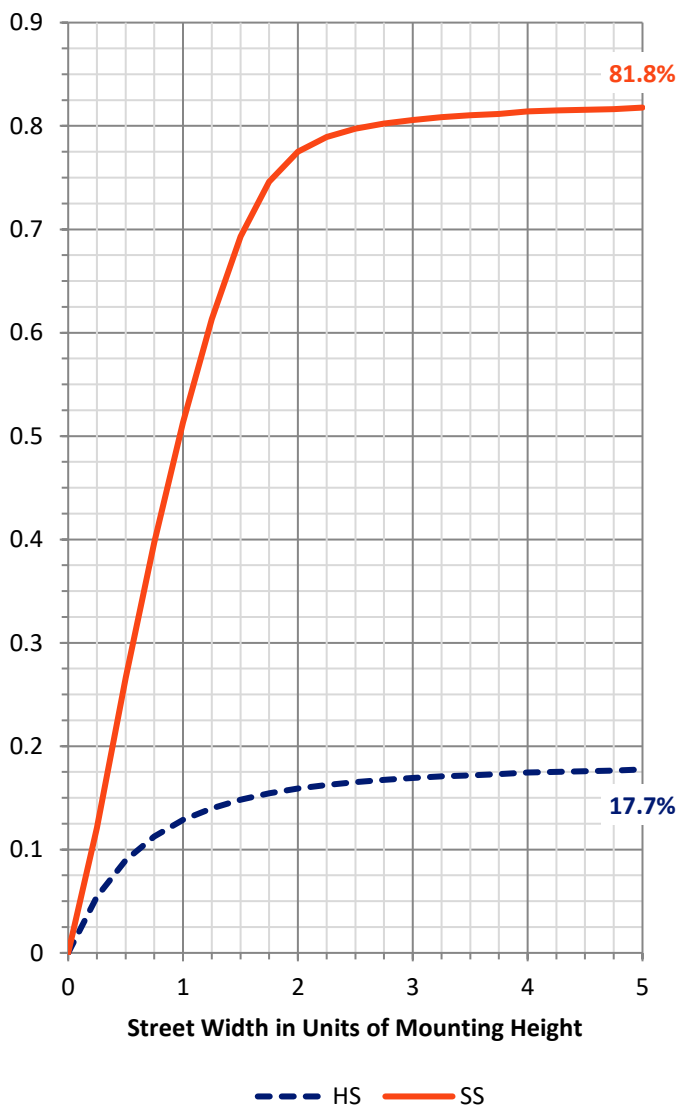
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9330.3 | 0.0 | 9330.3 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 42548.7 | 0.0 | 42548.7 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 51879.0 | 0.0 | 51879.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 639.3 | 1.2 |
| 10°-20° | 2077.0 | 4.0 |
| 20°-30° | 3629.8 | 7.0 |
| 30°-40° | 5398.9 | 10.4 |
| 40°-50° | 7954.5 | 15.3 |
| 50°-60° | 11136.5 | 21.5 |
| 60°-70° | 12455.8 | 24.0 |
| 70°-80° | 7608.5 | 14.7 |
| 80°-90° | 978.7 | 1.9 |
| 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° | 51879.0 | 100.0 |
| 0°-180° | 51879.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457980

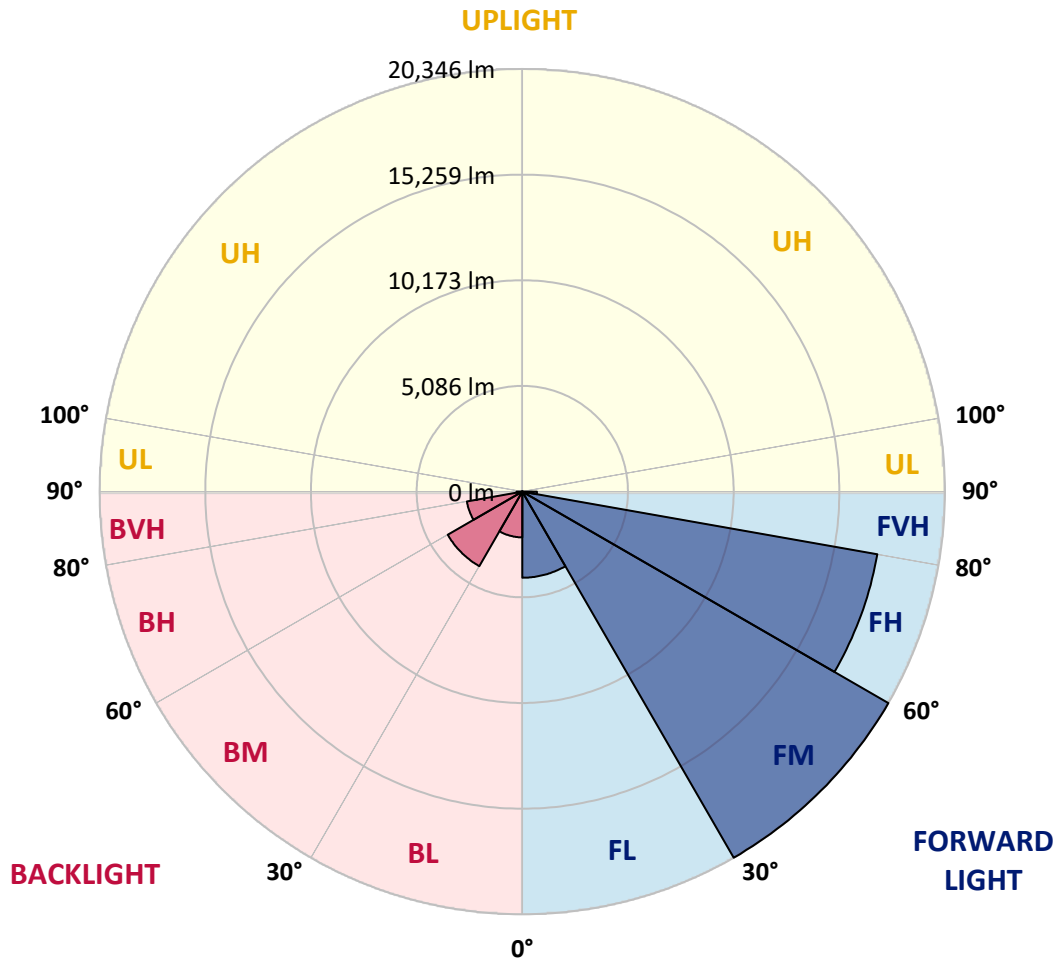
CATALOG NUMBER: GALN-SA9B-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4145.2 | 8.0 | | | |
| FM (30°-60°) | 20345.9 | 39.2 | | | |
| FH (60°-80°) | 17353.4 | 33.4 | | | G5 |
| FVH (80°-90°) | 704.2 | 1.4 | | | G4/750 |
| BL (0°-30°) | 2201.0 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 4144.0 | 8.0 | B3/5000 | | |
| BH (60°-80°) | 2710.9 | 5.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 274.5 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium





REPORT NUMBER: P457980

CATALOG NUMBER: GALN-SA9B-760-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 |
| 2.5° | 7068.6 | 7034.3 | 7037.2 | 6988.7 | 6926.0 | 6857.6 | 6760.6 | 6675.1 | 6606.6 | 6566.7 | 6449.8 |
| 5° | 7832.7 | 7798.5 | 7755.7 | 7650.2 | 7604.6 | 7436.4 | 7222.5 | 7028.6 | 6880.4 | 6797.7 | 6563.9 |
| 7.5° | 8451.5 | 8442.9 | 8431.5 | 8371.6 | 8254.7 | 8020.9 | 7838.4 | 7502.0 | 7282.4 | 7125.6 | 6726.4 |
| 10° | 8833.6 | 8847.8 | 8856.4 | 8867.8 | 8819.3 | 8696.7 | 8445.8 | 8020.9 | 7741.5 | 7541.9 | 6937.4 |
| 12.5° | 9027.5 | 9041.7 | 9090.2 | 9195.7 | 9261.3 | 9247.0 | 9041.7 | 8625.4 | 8240.5 | 7978.2 | 7162.7 |
| 15° | 9147.2 | 9170.0 | 9255.6 | 9395.3 | 9614.8 | 9754.6 | 9654.8 | 9269.8 | 8847.8 | 8537.0 | 7430.7 |
| 17.5° | 9278.4 | 9304.0 | 9398.1 | 9597.7 | 9885.7 | 10188.0 | 10296.3 | 9965.6 | 9506.5 | 9135.8 | 7730.1 |
| 20° | 9352.5 | 9386.7 | 9520.7 | 9783.1 | 10119.5 | 10558.6 | 10917.9 | 10744.0 | 10242.1 | 9831.5 | 8075.1 |
| 22.5° | 9472.3 | 9500.8 | 9614.8 | 9894.3 | 10296.3 | 10846.6 | 11539.5 | 11502.5 | 11060.5 | 10530.1 | 8454.3 |
| 25° | 9797.3 | 9843.0 | 9900.0 | 10068.2 | 10456.0 | 11140.3 | 12055.6 | 12312.2 | 11853.2 | 11260.1 | 8802.2 |
| 27.5° | 10410.4 | 10447.4 | 10444.6 | 10467.4 | 10687.0 | 11394.1 | 12503.3 | 13113.5 | 12640.2 | 11998.6 | 9138.7 |
| 30° | 11109.0 | 11123.2 | 11134.6 | 11083.3 | 11131.8 | 11653.6 | 12913.9 | 13906.2 | 13432.8 | 12757.1 | 9432.4 |
| 32.5° | 11958.7 | 11987.2 | 11890.2 | 11759.1 | 11719.2 | 12038.5 | 13253.2 | 14698.8 | 14370.9 | 13526.9 | 9723.2 |
| 35° | 12962.4 | 13036.5 | 12839.7 | 12608.8 | 12446.3 | 12591.7 | 13709.4 | 15508.6 | 15331.9 | 14510.7 | 10108.1 |
| 37.5° | 14108.6 | 14199.9 | 14017.4 | 13564.0 | 13333.0 | 13373.0 | 14305.4 | 16509.5 | 16546.5 | 15631.2 | 10681.3 |
| 40° | 15046.7 | 15166.5 | 15172.2 | 14530.6 | 14179.9 | 14225.5 | 15061.0 | 17587.3 | 18012.1 | 17017.0 | 11357.0 |
| 42.5° | 15665.5 | 15782.4 | 15905.0 | 15528.6 | 15160.8 | 15420.2 | 15942.0 | 18756.4 | 19660.2 | 18699.3 | 12300.8 |
| 45° | 16344.1 | 16449.6 | 16518.0 | 16346.9 | 16141.6 | 16814.6 | 17005.6 | 19999.6 | 21416.7 | 20578.4 | 13333.0 |
| 47.5° | 17131.1 | 17248.0 | 17313.6 | 17151.0 | 17074.0 | 18037.8 | 18151.9 | 21160.1 | 23292.9 | 22403.3 | 14473.6 |
| 50° | 18180.4 | 18268.8 | 18234.6 | 18131.9 | 18114.8 | 18975.9 | 19252.5 | 22246.4 | 24841.2 | 24367.9 | 15656.9 |
| 52.5° | 19486.3 | 19591.8 | 19628.9 | 19483.5 | 19417.9 | 19646.0 | 20139.3 | 23235.9 | 26249.8 | 26055.9 | 16920.1 |
| 55° | 20276.1 | 20444.4 | 21008.9 | 21237.1 | 21393.9 | 20512.8 | 21094.5 | 24327.9 | 27512.9 | 27835.1 | 18277.3 |
| 57.5° | 19263.9 | 19480.6 | 20743.8 | 21884.3 | 23358.5 | 22679.8 | 22448.9 | 25468.5 | 28776.1 | 29560.2 | 19902.6 |
| 60° | 16794.6 | 16843.1 | 18471.2 | 20572.7 | 23538.1 | 25465.6 | 25274.6 | 27282.0 | 30144.8 | 31299.6 | 22044.0 |
| 62.5° | 11650.7 | 11753.4 | 13678.1 | 17031.3 | 21319.7 | 26469.3 | 30082.0 | 30412.8 | 32106.5 | 33902.9 | 25183.4 |
| 65° | 6007.9 | 5873.8 | 7627.4 | 10704.1 | 16073.2 | 24085.6 | 33977.0 | 36169.7 | 36360.8 | 37974.6 | 29603.0 |
| 67.5° | 3698.2 | 3758.1 | 4579.3 | 6250.2 | 9503.6 | 17504.6 | 33569.3 | 43204.1 | 42197.5 | 42973.1 | 33706.1 |
| 70° | 2777.2 | 2851.4 | 3415.9 | 4277.1 | 5794.0 | 10008.3 | 26996.8 | 44909.2 | 46314.9 | 46115.3 | 34955.0 |
| 71° | 2415.1 | 2492.1 | 3079.5 | 3892.1 | 4867.3 | 7724.4 | 22745.4 | 43124.2 | 46457.5 | 46423.3 | 34484.5 |
| 72.5° | 2058.7 | 2107.2 | 2566.2 | 3296.2 | 4103.1 | 5414.8 | 17088.3 | 38676.1 | 44475.8 | 45613.5 | 32805.1 |
| 75° | 1616.7 | 1653.8 | 1859.1 | 2514.9 | 3230.6 | 3324.7 | 9170.0 | 28995.6 | 36529.0 | 38696.0 | 27310.5 |
| 77.5° | 1317.3 | 1343.0 | 1448.5 | 1867.7 | 2492.1 | 2355.2 | 4810.3 | 18873.3 | 22885.1 | 25066.5 | 16087.5 |
| 80° | 1046.5 | 1075.0 | 1137.7 | 1266.0 | 1867.7 | 1679.5 | 2295.4 | 9563.5 | 11054.8 | 11032.0 | 6421.3 |
| 82.5° | 812.6 | 821.2 | 895.3 | 929.5 | 1277.4 | 1191.9 | 1243.2 | 4049.0 | 4485.2 | 4633.5 | 2318.2 |
| 85° | 513.2 | 538.9 | 792.7 | 712.8 | 764.2 | 698.6 | 613.0 | 1608.2 | 1981.7 | 1953.2 | 926.7 |
| 87.5° | 156.8 | 165.4 | 268.0 | 302.2 | 339.3 | 305.1 | 225.3 | 473.3 | 578.8 | 627.3 | 231.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P457980

CATALOG NUMBER: GALN-SA9B-760-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 | 6367.1 |
| 2.5° | 6404.2 | 6372.8 | 6261.6 | 6170.4 | 6084.8 | 5990.7 | 5910.9 | 5888.1 | 5868.1 | 5859.6 | 5856.7 |
| 5° | 6464.1 | 6370.0 | 6150.4 | 5970.8 | 5828.2 | 5697.1 | 5614.4 | 5577.3 | 5540.2 | 5540.2 | 5551.6 |
| 7.5° | 6549.6 | 6378.5 | 6039.2 | 5771.2 | 5591.5 | 5468.9 | 5409.1 | 5403.4 | 5411.9 | 5420.5 | 5423.3 |
| 10° | 6643.7 | 6372.8 | 5876.7 | 5543.1 | 5383.4 | 5326.4 | 5329.2 | 5377.7 | 5423.3 | 5457.5 | 5463.2 |
| 12.5° | 6735.0 | 6338.6 | 5685.6 | 5329.2 | 5226.6 | 5238.0 | 5317.8 | 5426.2 | 5514.6 | 5563.0 | 5565.9 |
| 15° | 6837.6 | 6284.4 | 5454.7 | 5126.8 | 5092.6 | 5181.0 | 5329.2 | 5494.6 | 5628.6 | 5708.5 | 5717.0 |
| 17.5° | 6923.1 | 6193.2 | 5212.3 | 4930.0 | 4972.8 | 5135.3 | 5340.6 | 5554.5 | 5717.0 | 5816.8 | 5833.9 |
| 20° | 7020.1 | 6076.3 | 4961.4 | 4741.8 | 4864.4 | 5084.0 | 5317.8 | 5548.8 | 5717.0 | 5814.0 | 5836.8 |
| 22.5° | 7097.1 | 5910.9 | 4721.9 | 4587.9 | 4767.5 | 5021.3 | 5240.8 | 5426.2 | 5563.0 | 5614.4 | 5648.6 |
| 25° | 7128.4 | 5702.8 | 4496.6 | 4462.4 | 4690.5 | 4918.6 | 5066.9 | 5172.4 | 5215.2 | 5209.5 | 5223.7 |
| 27.5° | 7111.3 | 5463.2 | 4302.7 | 4362.6 | 4593.6 | 4758.9 | 4833.1 | 4824.5 | 4747.5 | 4676.3 | 4710.5 |
| 30° | 7040.0 | 5178.1 | 4140.2 | 4260.0 | 4468.1 | 4559.4 | 4547.9 | 4436.7 | 4291.3 | 4157.3 | 4165.9 |
| 32.5° | 6911.7 | 4870.2 | 3989.1 | 4143.1 | 4291.3 | 4331.2 | 4254.3 | 4108.8 | 3900.7 | 3726.7 | 3701.1 |
| 35° | 6803.4 | 4576.5 | 3855.1 | 4009.0 | 4114.5 | 4094.6 | 4020.4 | 3832.3 | 3644.1 | 3490.1 | 3464.4 |
| 37.5° | 6786.3 | 4325.5 | 3726.7 | 3857.9 | 3917.8 | 3889.3 | 3798.0 | 3638.4 | 3569.9 | 3453.0 | 3438.8 |
| 40° | 6877.5 | 4148.8 | 3595.6 | 3698.2 | 3726.7 | 3703.9 | 3604.1 | 3512.9 | 3575.6 | 3547.1 | 3547.1 |
| 42.5° | 7125.6 | 4054.7 | 3478.7 | 3538.6 | 3561.4 | 3578.5 | 3507.2 | 3430.2 | 3507.2 | 3376.0 | 3333.3 |
| 45° | 7519.1 | 4057.5 | 3373.2 | 3381.7 | 3450.2 | 3510.0 | 3461.6 | 3347.5 | 3307.6 | 3045.3 | 2993.9 |
| 47.5° | 8097.9 | 4154.5 | 3287.6 | 3233.5 | 3356.1 | 3455.9 | 3387.4 | 3222.1 | 3045.3 | 2871.3 | 2840.0 |
| 50° | 8773.7 | 4328.4 | 3210.7 | 3079.5 | 3230.6 | 3387.4 | 3336.1 | 3142.2 | 2959.7 | 2854.2 | 2834.3 |
| 52.5° | 9523.6 | 4547.9 | 3116.6 | 2908.4 | 3076.6 | 3356.1 | 3347.5 | 3130.8 | 2879.9 | 2808.6 | 2791.5 |
| 55° | 10450.3 | 4764.7 | 2999.6 | 2708.8 | 2939.8 | 3330.4 | 3316.2 | 3036.7 | 2862.8 | 2811.5 | 2805.8 |
| 57.5° | 11528.1 | 5078.3 | 2831.4 | 2506.4 | 2782.9 | 3224.9 | 3193.5 | 2979.7 | 2805.8 | 2768.7 | 2765.8 |
| 60° | 13264.6 | 5565.9 | 2591.9 | 2321.0 | 2623.3 | 3039.6 | 3079.5 | 2882.7 | 2714.5 | 2706.0 | 2703.1 |
| 62.5° | 15548.6 | 6250.2 | 2343.8 | 2130.0 | 2437.9 | 2800.1 | 2914.1 | 2751.6 | 2617.6 | 2660.3 | 2666.0 |
| 65° | 18702.2 | 6826.2 | 2087.2 | 1967.4 | 2232.6 | 2569.1 | 2757.3 | 2629.0 | 2509.2 | 2591.9 | 2591.9 |
| 67.5° | 20758.0 | 6837.6 | 1853.4 | 1799.2 | 2024.5 | 2375.2 | 2591.9 | 2483.5 | 2369.5 | 2509.2 | 2514.9 |
| 70° | 20330.3 | 5990.7 | 1659.5 | 1622.4 | 1822.0 | 2167.0 | 2409.4 | 2323.9 | 2192.7 | 2318.2 | 2272.5 |
| 71° | 19640.3 | 5520.3 | 1582.5 | 1554.0 | 1742.2 | 2067.2 | 2323.9 | 2252.6 | 2121.4 | 2204.1 | 2178.5 |
| 72.5° | 18539.7 | 4793.2 | 1457.1 | 1462.8 | 1622.4 | 1941.8 | 2204.1 | 2130.0 | 1998.8 | 2044.4 | 2035.9 |
| 75° | 15671.2 | 4185.8 | 1246.1 | 1271.7 | 1394.3 | 1727.9 | 1964.6 | 1907.6 | 1773.6 | 1773.6 | 1765.0 |
| 77.5° | 9797.3 | 2925.5 | 1035.0 | 1049.3 | 1183.3 | 1479.9 | 1688.0 | 1639.5 | 1511.2 | 1468.5 | 1457.1 |
| 80° | 3655.5 | 1511.2 | 809.8 | 826.9 | 909.6 | 1166.2 | 1397.2 | 1351.6 | 1220.4 | 1171.9 | 1126.3 |
| 82.5° | 1382.9 | 758.5 | 595.9 | 581.7 | 670.1 | 889.6 | 1094.9 | 1040.8 | 938.1 | 821.2 | 787.0 |
| 85° | 521.8 | 376.4 | 365.0 | 353.6 | 393.5 | 527.5 | 678.6 | 667.2 | 558.9 | 476.2 | 467.6 |
| 87.5° | 136.9 | 122.6 | 142.6 | 105.5 | 111.2 | 99.8 | 102.6 | 42.8 | 20.0 | 8.6 | 5.7 |
| 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)