

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: P457893

Luminaire Tested: **GALN-SA9B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457893
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-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47247 lumens
Efficiency: N/A
Efficacy: 129.8 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

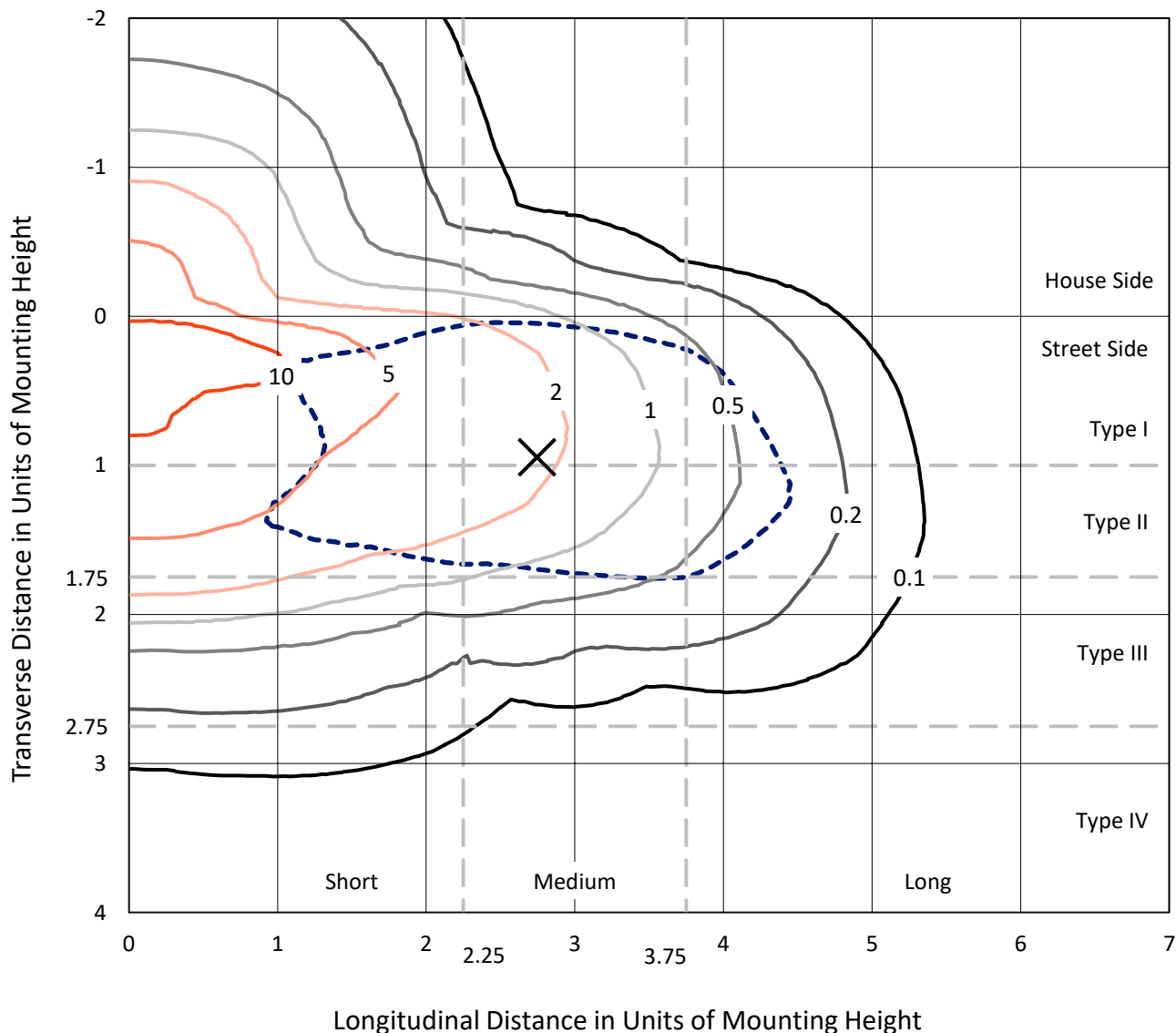
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457893
 CATALOG NUMBER: GALN-SA9B-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

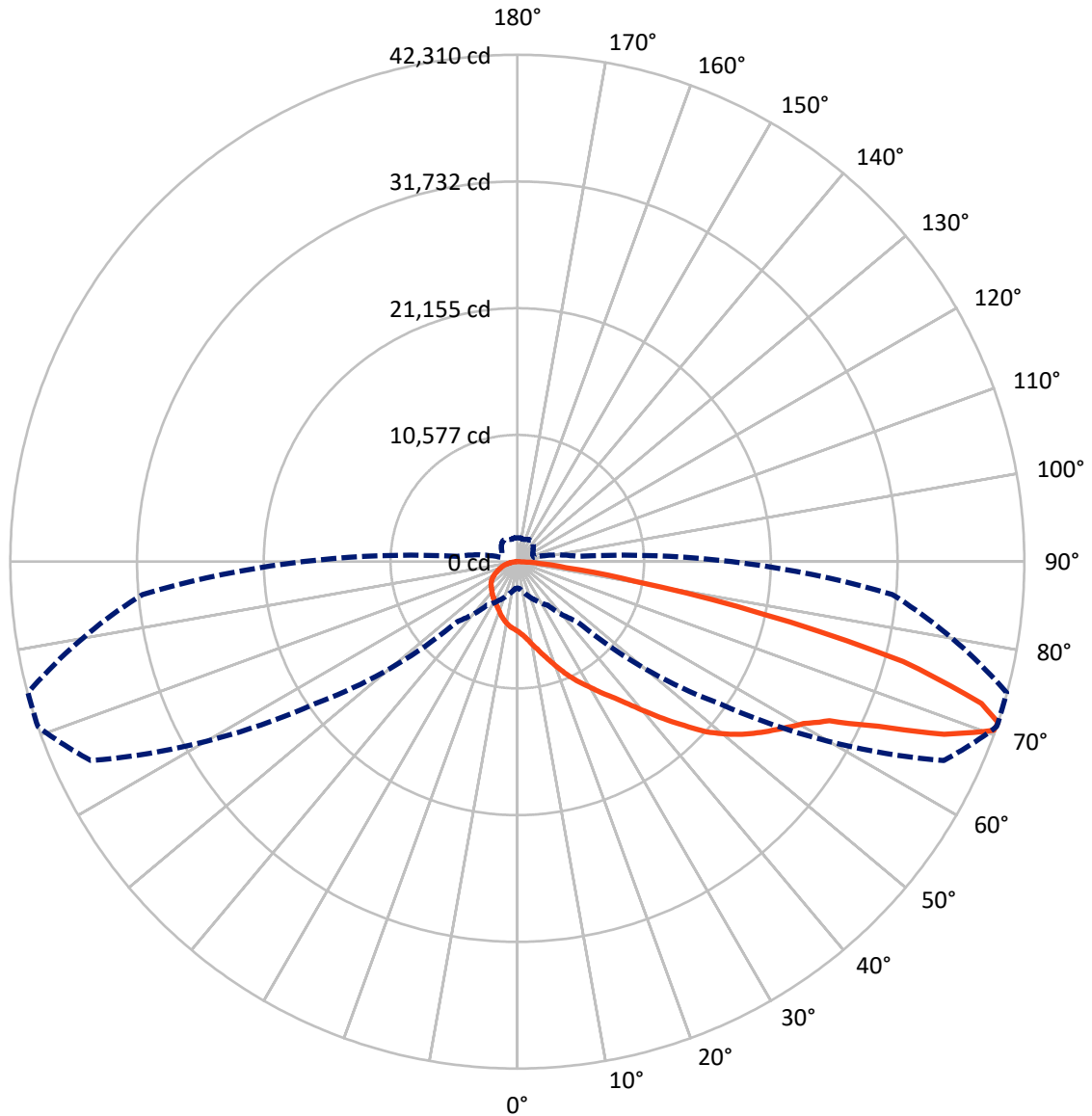
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P457893
CATALOG NUMBER: GALN-SA9B-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457893

CATALOG NUMBER: GALN-SA9B-730-U-T2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8497.3 | 0.0 | 8497.3 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 38749.8 | 0.0 | 38749.8 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 47247.0 | 0.0 | 47247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 582.2 | 1.2 |
| 10°-20° | 1891.6 | 4.0 |
| 20°-30° | 3305.7 | 7.0 |
| 30°-40° | 4916.8 | 10.4 |
| 40°-50° | 7244.3 | 15.3 |
| 50°-60° | 10142.2 | 21.5 |
| 60°-70° | 11343.7 | 24.0 |
| 70°-80° | 6929.2 | 14.7 |
| 80°-90° | 891.4 | 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° | 47247.0 | 100.0 |
| 0°-180° | 47247.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457893

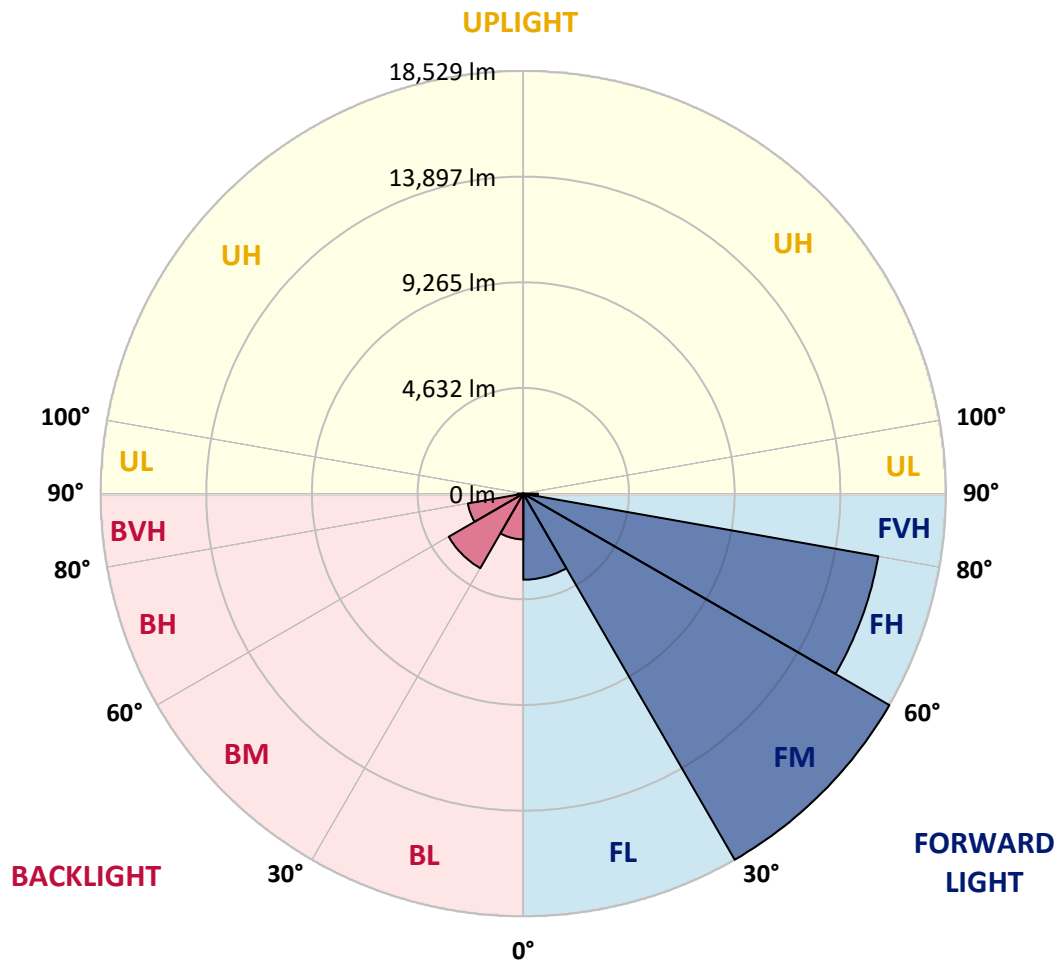
CATALOG NUMBER: GALN-SA9B-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3775.1 | 8.0 | | | |
| FM | (30°-60°) | 18529.3 | 39.2 | | | |
| FH | (60°-80°) | 15804.0 | 33.4 | | | G5 |
| FVH | (80°-90°) | 641.4 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 2004.5 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 3774.0 | 8.0 | B3/5000 | | |
| BH | (60°-60°) | 2468.8 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 250.0 | 0.5 | | | G3/500 |
| 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: P457893

CATALOG NUMBER: GALN-SA9B-730-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 |
| 2.5° | 6437.4 | 6406.3 | 6408.9 | 6364.7 | 6307.6 | 6245.3 | 6157.0 | 6079.1 | 6016.8 | 5980.4 | 5873.9 |
| 5° | 7133.4 | 7102.2 | 7063.3 | 6967.2 | 6925.6 | 6772.4 | 6577.7 | 6401.1 | 6266.1 | 6190.8 | 5977.8 |
| 7.5° | 7696.9 | 7689.1 | 7678.7 | 7624.2 | 7517.7 | 7304.8 | 7138.6 | 6832.2 | 6632.2 | 6489.4 | 6125.8 |
| 10° | 8044.9 | 8057.8 | 8065.6 | 8076.0 | 8031.9 | 7920.2 | 7691.7 | 7304.8 | 7050.3 | 6868.5 | 6318.0 |
| 12.5° | 8221.4 | 8234.4 | 8278.6 | 8374.7 | 8434.4 | 8421.4 | 8234.4 | 7855.3 | 7504.7 | 7265.8 | 6523.1 |
| 15° | 8330.5 | 8351.3 | 8429.2 | 8556.4 | 8756.4 | 8883.6 | 8792.7 | 8442.2 | 8057.8 | 7774.8 | 6767.2 |
| 17.5° | 8450.0 | 8473.3 | 8559.0 | 8740.8 | 9003.1 | 9278.3 | 9377.0 | 9075.8 | 8657.7 | 8320.1 | 7039.9 |
| 20° | 8517.5 | 8548.6 | 8670.7 | 8909.6 | 9216.0 | 9615.9 | 9943.1 | 9784.7 | 9327.7 | 8953.7 | 7354.1 |
| 22.5° | 8626.5 | 8652.5 | 8756.4 | 9010.9 | 9377.0 | 9878.2 | 10509.2 | 10475.5 | 10073.0 | 9590.0 | 7699.5 |
| 25° | 8922.6 | 8964.1 | 9016.1 | 9169.3 | 9522.4 | 10145.7 | 10979.2 | 11212.9 | 10794.9 | 10254.7 | 8016.3 |
| 27.5° | 9480.9 | 9514.6 | 9512.1 | 9532.8 | 9732.8 | 10376.8 | 11386.9 | 11942.6 | 11511.6 | 10927.3 | 8322.7 |
| 30° | 10117.1 | 10130.1 | 10140.5 | 10093.7 | 10137.9 | 10613.1 | 11760.9 | 12664.6 | 12233.5 | 11618.0 | 8590.2 |
| 32.5° | 10890.9 | 10916.9 | 10828.6 | 10709.2 | 10672.8 | 10963.7 | 12069.9 | 13386.5 | 13087.8 | 12319.2 | 8855.1 |
| 35° | 11805.0 | 11872.5 | 11693.4 | 11483.0 | 11335.0 | 11467.4 | 12485.4 | 14124.0 | 13963.0 | 13215.1 | 9205.6 |
| 37.5° | 12848.9 | 12932.0 | 12765.8 | 12352.9 | 12142.6 | 12179.0 | 13028.1 | 15035.4 | 15069.2 | 14235.6 | 9727.6 |
| 40° | 13703.3 | 13812.3 | 13817.5 | 13233.3 | 12913.8 | 12955.4 | 13716.3 | 16017.0 | 16403.9 | 15497.7 | 10343.0 |
| 42.5° | 14266.8 | 14373.2 | 14484.9 | 14142.1 | 13807.1 | 14043.5 | 14518.7 | 17081.7 | 17904.9 | 17029.8 | 11202.6 |
| 45° | 14884.8 | 14980.9 | 15043.2 | 14887.4 | 14700.4 | 15313.3 | 15487.3 | 18213.9 | 19504.5 | 18741.1 | 12142.6 |
| 47.5° | 15601.5 | 15708.0 | 15767.7 | 15619.7 | 15549.6 | 16427.3 | 16531.2 | 19270.8 | 21213.2 | 20403.0 | 13181.3 |
| 50° | 16557.1 | 16637.6 | 16606.5 | 16513.0 | 16497.4 | 17281.7 | 17533.5 | 20260.2 | 22623.3 | 22192.2 | 14259.0 |
| 52.5° | 17746.5 | 17842.6 | 17876.3 | 17743.9 | 17684.2 | 17891.9 | 18341.1 | 21161.3 | 23906.1 | 23729.5 | 15409.4 |
| 55° | 18465.8 | 18619.0 | 19133.2 | 19340.9 | 19483.7 | 18681.3 | 19211.1 | 22155.8 | 25056.4 | 25349.9 | 16645.4 |
| 57.5° | 17543.9 | 17741.3 | 18891.7 | 19930.4 | 21272.9 | 20654.9 | 20444.5 | 23194.5 | 26206.8 | 26920.9 | 18125.6 |
| 60° | 15295.1 | 15339.3 | 16822.0 | 18735.9 | 21436.5 | 23192.0 | 23018.0 | 24846.1 | 27453.3 | 28505.0 | 20075.8 |
| 62.5° | 10610.5 | 10704.0 | 12456.8 | 15510.6 | 19416.2 | 24106.0 | 27396.2 | 27697.4 | 29239.9 | 30875.9 | 22934.9 |
| 65° | 5471.4 | 5349.4 | 6946.4 | 9748.4 | 14638.1 | 21935.1 | 30943.4 | 32940.3 | 33114.3 | 34584.1 | 26959.9 |
| 67.5° | 3368.0 | 3422.6 | 4170.4 | 5692.2 | 8655.1 | 15941.7 | 30572.0 | 39346.6 | 38429.9 | 39136.3 | 30696.7 |
| 70° | 2529.3 | 2596.8 | 3111.0 | 3895.2 | 5276.7 | 9114.7 | 24586.4 | 40899.5 | 42179.7 | 41997.9 | 31834.1 |
| 71° | 2199.5 | 2269.6 | 2804.5 | 3544.6 | 4432.7 | 7034.7 | 20714.6 | 39273.9 | 42309.5 | 42278.4 | 31405.6 |
| 72.5° | 1874.9 | 1919.0 | 2337.1 | 3001.9 | 3736.8 | 4931.3 | 15562.6 | 35222.9 | 40504.8 | 41540.9 | 29876.1 |
| 75° | 1472.4 | 1506.1 | 1693.1 | 2290.4 | 2942.2 | 3027.9 | 8351.3 | 26406.8 | 33267.5 | 35241.1 | 24872.1 |
| 77.5° | 1199.7 | 1223.1 | 1319.2 | 1700.9 | 2269.6 | 2145.0 | 4380.8 | 17188.2 | 20841.9 | 22828.4 | 14651.1 |
| 80° | 953.0 | 979.0 | 1036.1 | 1153.0 | 1700.9 | 1529.5 | 2090.4 | 8709.6 | 10067.8 | 10047.0 | 5848.0 |
| 82.5° | 740.1 | 747.9 | 815.4 | 846.6 | 1163.4 | 1085.5 | 1132.2 | 3687.4 | 4084.8 | 4219.8 | 2111.2 |
| 85° | 467.4 | 490.8 | 721.9 | 649.2 | 695.9 | 636.2 | 558.3 | 1464.6 | 1804.8 | 1778.8 | 844.0 |
| 87.5° | 142.8 | 150.6 | 244.1 | 275.3 | 309.0 | 277.9 | 205.1 | 431.1 | 527.1 | 571.3 | 210.3 |
| 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: P457893

CATALOG NUMBER: GALN-SA9B-730-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 | 5798.6 |
| 2.5° | 5832.4 | 5803.8 | 5702.6 | 5619.5 | 5541.6 | 5455.9 | 5383.2 | 5362.4 | 5344.2 | 5336.4 | 5333.8 |
| 5° | 5886.9 | 5801.2 | 5601.3 | 5437.7 | 5307.8 | 5188.4 | 5113.1 | 5079.3 | 5045.6 | 5045.6 | 5056.0 |
| 7.5° | 5964.8 | 5809.0 | 5500.0 | 5255.9 | 5092.3 | 4980.6 | 4926.1 | 4920.9 | 4928.7 | 4936.5 | 4939.1 |
| 10° | 6050.5 | 5803.8 | 5352.0 | 5048.2 | 4902.7 | 4850.8 | 4853.4 | 4897.6 | 4939.1 | 4970.3 | 4975.5 |
| 12.5° | 6133.6 | 5772.7 | 5178.0 | 4853.4 | 4759.9 | 4770.3 | 4843.0 | 4941.7 | 5022.2 | 5066.3 | 5068.9 |
| 15° | 6227.1 | 5723.3 | 4967.7 | 4669.0 | 4637.9 | 4718.4 | 4853.4 | 5004.0 | 5126.1 | 5198.8 | 5206.6 |
| 17.5° | 6305.0 | 5640.2 | 4746.9 | 4489.9 | 4528.8 | 4676.8 | 4863.8 | 5058.6 | 5206.6 | 5297.5 | 5313.0 |
| 20° | 6393.3 | 5533.8 | 4518.4 | 4318.5 | 4430.1 | 4630.1 | 4843.0 | 5053.4 | 5206.6 | 5294.9 | 5315.6 |
| 22.5° | 6463.4 | 5383.2 | 4300.3 | 4178.2 | 4341.8 | 4573.0 | 4772.9 | 4941.7 | 5066.3 | 5113.1 | 5144.2 |
| 25° | 6492.0 | 5193.6 | 4095.1 | 4064.0 | 4271.7 | 4479.5 | 4614.5 | 4710.6 | 4749.5 | 4744.3 | 4757.3 |
| 27.5° | 6476.4 | 4975.5 | 3918.6 | 3973.1 | 4183.4 | 4334.0 | 4401.6 | 4393.8 | 4323.7 | 4258.7 | 4289.9 |
| 30° | 6411.5 | 4715.8 | 3770.5 | 3879.6 | 4069.2 | 4152.3 | 4141.9 | 4040.6 | 3908.2 | 3786.1 | 3793.9 |
| 32.5° | 6294.6 | 4435.3 | 3632.9 | 3773.1 | 3908.2 | 3944.5 | 3874.4 | 3742.0 | 3552.4 | 3394.0 | 3370.6 |
| 35° | 6195.9 | 4167.9 | 3510.9 | 3651.1 | 3747.2 | 3729.0 | 3661.5 | 3490.1 | 3318.7 | 3178.5 | 3155.1 |
| 37.5° | 6180.4 | 3939.3 | 3394.0 | 3513.5 | 3568.0 | 3542.0 | 3458.9 | 3313.5 | 3251.2 | 3144.7 | 3131.7 |
| 40° | 6263.5 | 3778.3 | 3274.6 | 3368.0 | 3394.0 | 3373.2 | 3282.3 | 3199.2 | 3256.4 | 3230.4 | 3230.4 |
| 42.5° | 6489.4 | 3692.6 | 3168.1 | 3222.6 | 3243.4 | 3259.0 | 3194.1 | 3123.9 | 3194.1 | 3074.6 | 3035.7 |
| 45° | 6847.7 | 3695.2 | 3072.0 | 3079.8 | 3142.1 | 3196.7 | 3152.5 | 3048.6 | 3012.3 | 2773.4 | 2726.6 |
| 47.5° | 7374.9 | 3783.5 | 2994.1 | 2944.8 | 3056.4 | 3147.3 | 3085.0 | 2934.4 | 2773.4 | 2615.0 | 2586.4 |
| 50° | 7990.3 | 3941.9 | 2924.0 | 2804.5 | 2942.2 | 3085.0 | 3038.2 | 2861.7 | 2695.5 | 2599.4 | 2581.2 |
| 52.5° | 8673.3 | 4141.9 | 2838.3 | 2648.7 | 2801.9 | 3056.4 | 3048.6 | 2851.3 | 2622.8 | 2557.8 | 2542.3 |
| 55° | 9517.2 | 4339.2 | 2731.8 | 2467.0 | 2677.3 | 3033.1 | 3020.1 | 2765.6 | 2607.2 | 2560.4 | 2555.2 |
| 57.5° | 10498.8 | 4624.9 | 2578.6 | 2282.6 | 2534.5 | 2937.0 | 2908.4 | 2713.6 | 2555.2 | 2521.5 | 2518.9 |
| 60° | 12080.3 | 5068.9 | 2360.5 | 2113.8 | 2389.0 | 2768.2 | 2804.5 | 2625.4 | 2472.1 | 2464.4 | 2461.8 |
| 62.5° | 14160.3 | 5692.2 | 2134.6 | 1939.8 | 2220.3 | 2550.1 | 2653.9 | 2505.9 | 2383.9 | 2422.8 | 2428.0 |
| 65° | 17032.4 | 6216.7 | 1900.9 | 1791.8 | 2033.3 | 2339.7 | 2511.1 | 2394.2 | 2285.2 | 2360.5 | 2360.5 |
| 67.5° | 18904.6 | 6227.1 | 1687.9 | 1638.6 | 1843.7 | 2163.1 | 2360.5 | 2261.8 | 2157.9 | 2285.2 | 2290.4 |
| 70° | 18515.1 | 5455.9 | 1511.3 | 1477.6 | 1659.4 | 1973.6 | 2194.3 | 2116.4 | 1996.9 | 2111.2 | 2069.6 |
| 71° | 17886.7 | 5027.4 | 1441.2 | 1415.3 | 1586.6 | 1882.7 | 2116.4 | 2051.5 | 1932.0 | 2007.3 | 1983.9 |
| 72.5° | 16884.3 | 4365.2 | 1327.0 | 1332.2 | 1477.6 | 1768.4 | 2007.3 | 1939.8 | 1820.4 | 1861.9 | 1854.1 |
| 75° | 14272.0 | 3812.1 | 1134.8 | 1158.2 | 1269.8 | 1573.7 | 1789.2 | 1737.3 | 1615.2 | 1615.2 | 1607.4 |
| 77.5° | 8922.6 | 2664.3 | 942.6 | 955.6 | 1077.7 | 1347.7 | 1537.3 | 1493.2 | 1376.3 | 1337.3 | 1327.0 |
| 80° | 3329.1 | 1376.3 | 737.5 | 753.1 | 828.4 | 1062.1 | 1272.4 | 1230.9 | 1111.4 | 1067.3 | 1025.7 |
| 82.5° | 1259.4 | 690.7 | 542.7 | 529.7 | 610.2 | 810.2 | 997.2 | 947.8 | 854.3 | 747.9 | 716.7 |
| 85° | 475.2 | 342.8 | 332.4 | 322.0 | 358.4 | 480.4 | 618.0 | 607.6 | 509.0 | 433.7 | 425.9 |
| 87.5° | 124.6 | 111.7 | 129.8 | 96.1 | 101.3 | 90.9 | 93.5 | 39.0 | 18.2 | 7.8 | 5.2 |
| 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)