

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: P651029

Luminaire Tested: **GALN-SA7C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651029
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-SA7C-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA 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: 34543.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

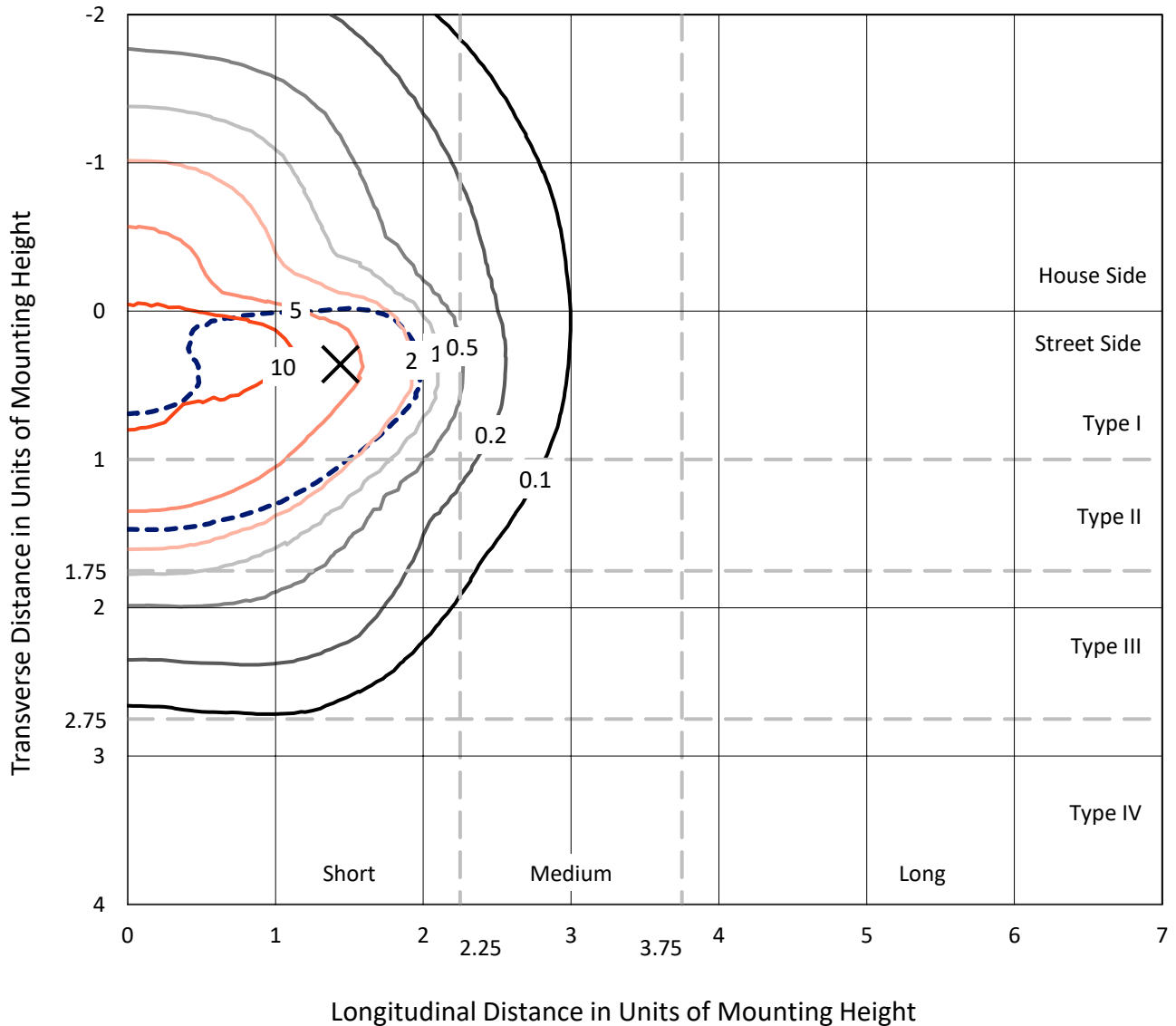
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

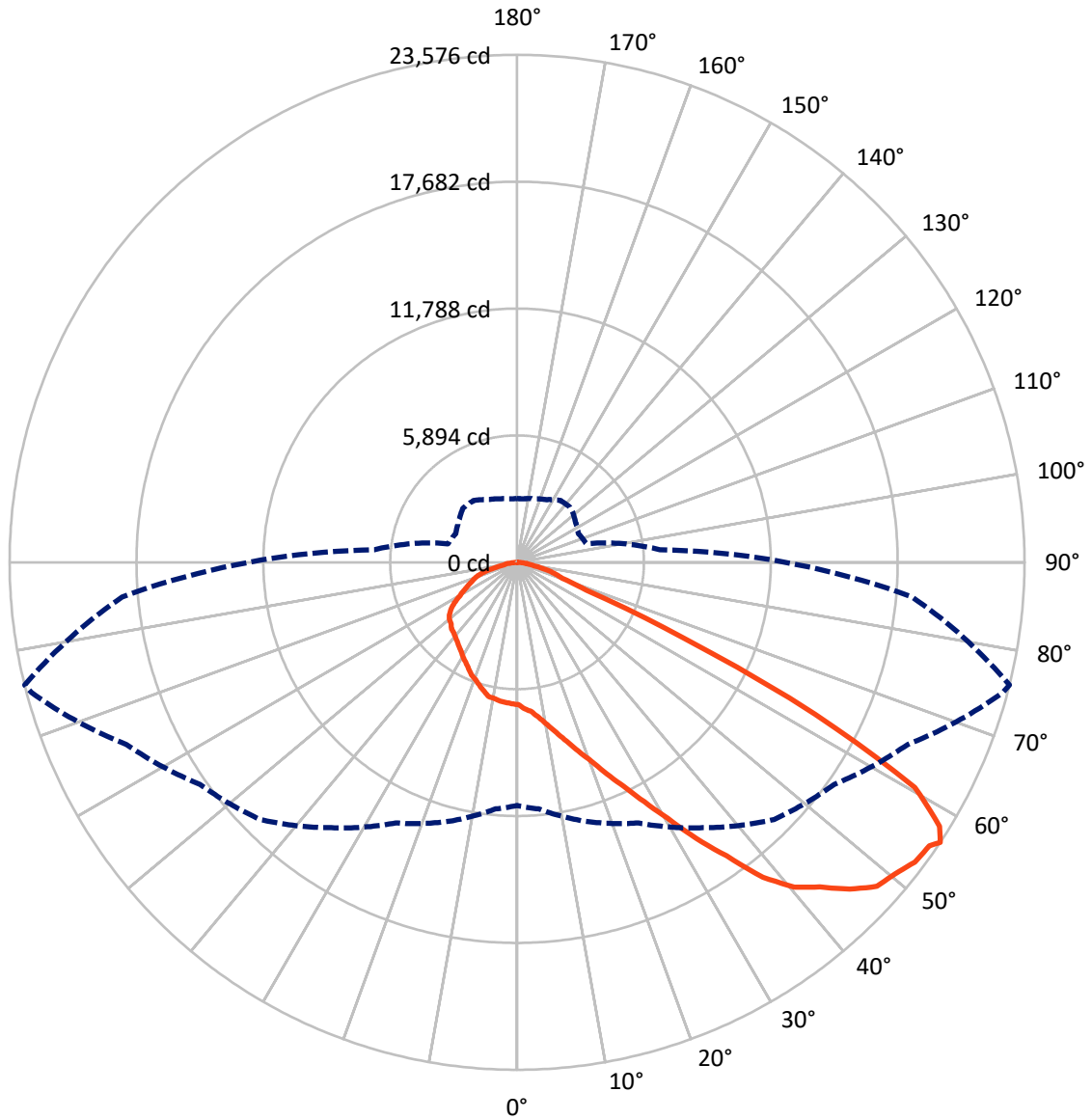
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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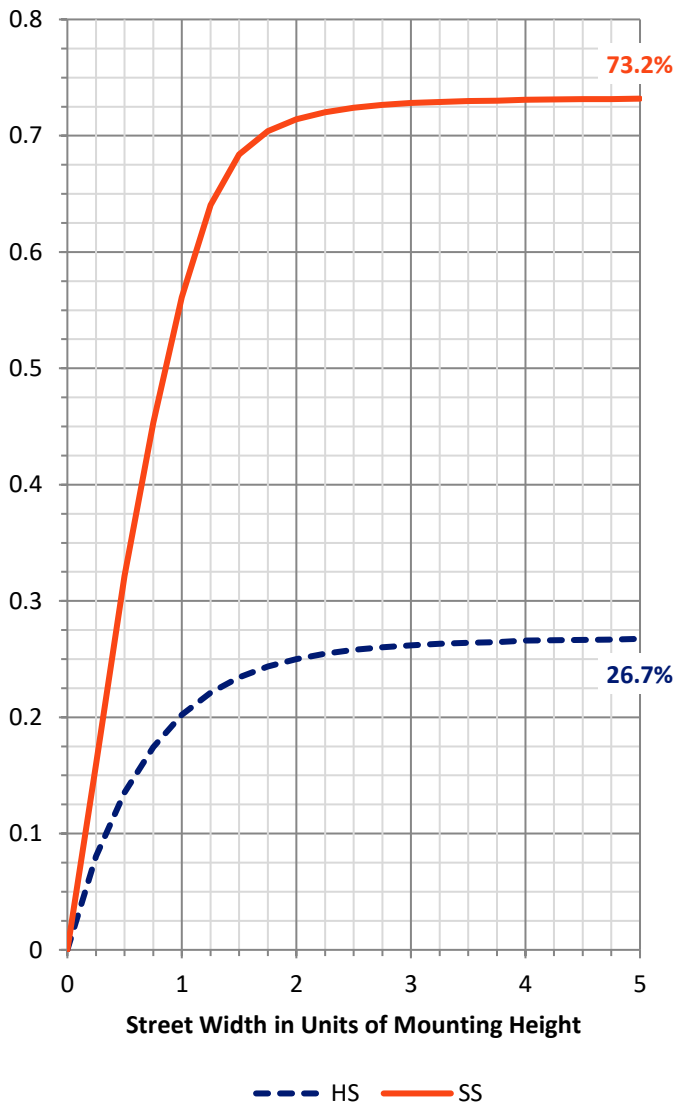
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9287.6 | 0.0 | 9287.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 25255.6 | 0.0 | 25255.6 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 34543.2 | 0.0 | 34543.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 655.5 | 1.9 |
| 10°-20° | 2059.0 | 6.0 |
| 20°-30° | 3600.9 | 10.4 |
| 30°-40° | 5638.0 | 16.3 |
| 40°-50° | 8201.6 | 23.7 |
| 50°-60° | 9014.1 | 26.1 |
| 60°-70° | 4023.5 | 11.6 |
| 70°-80° | 1162.1 | 3.4 |
| 80°-90° | 188.5 | 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° | 34543.2 | 100.0 |
| 0°-180° | 34543.2 | 100.0 |



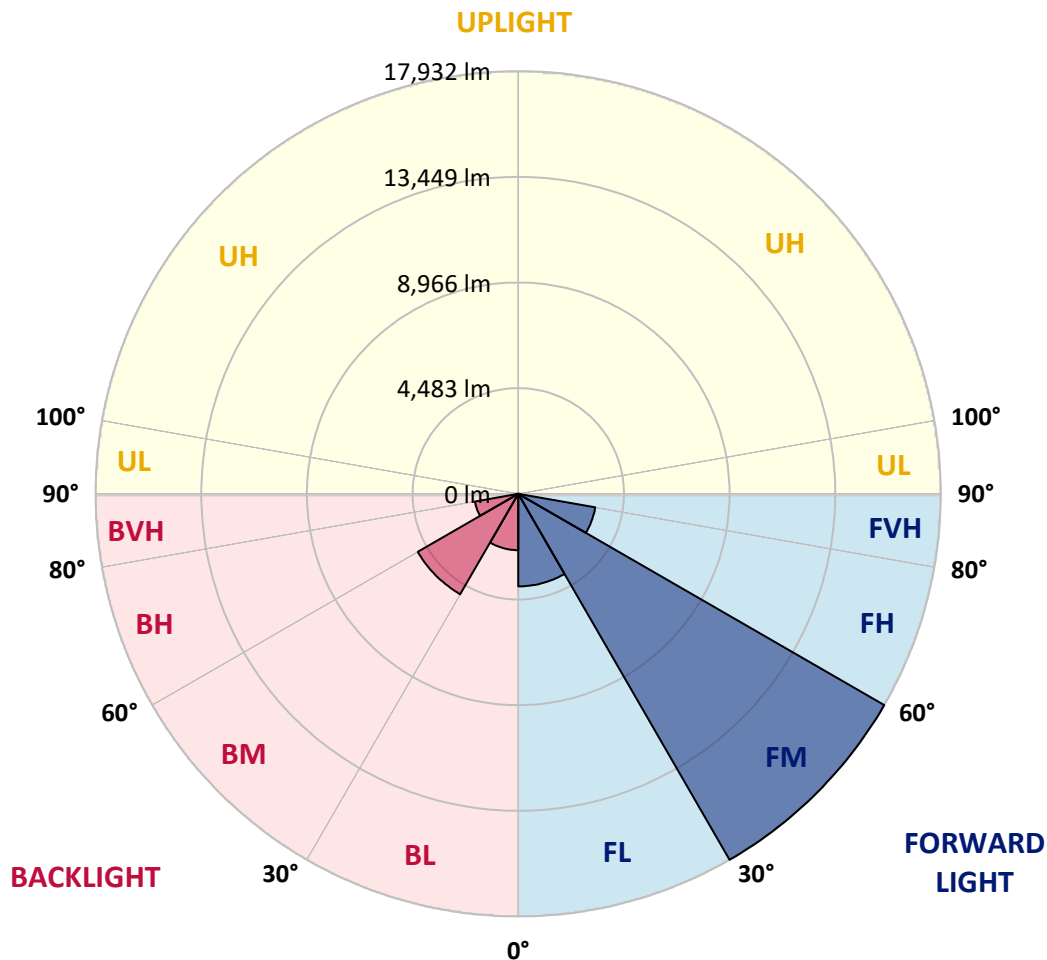
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3925.5 | 11.4 | | | |
| FM (30°-60°) | 17932.0 | 51.9 | | | |
| FH (60°-80°) | 3317.0 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 81.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2389.9 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 4921.7 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1868.7 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 107.4 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 |
| 2.5° | 7281.1 | 7164.6 | 7155.7 | 7124.4 | 7142.3 | 7061.7 | 6976.6 | 6864.7 | 6748.2 | 6819.8 | 6649.7 |
| 5° | 7791.6 | 7634.9 | 7697.5 | 7590.1 | 7603.5 | 7496.0 | 7321.4 | 7191.6 | 7048.3 | 6963.1 | 6842.3 |
| 7.5° | 7970.7 | 7984.1 | 8028.9 | 8011.0 | 7921.5 | 7921.5 | 7805.0 | 7576.7 | 7325.9 | 7276.6 | 7075.1 |
| 10° | 8212.5 | 8217.0 | 8167.7 | 8181.2 | 8306.6 | 8248.4 | 8145.3 | 8046.9 | 7724.4 | 7666.2 | 7308.0 |
| 12.5° | 8297.6 | 8217.0 | 8297.6 | 8369.2 | 8517.0 | 8597.6 | 8575.2 | 8503.6 | 8158.8 | 8118.4 | 7594.6 |
| 15° | 8311.0 | 8261.7 | 8328.9 | 8490.1 | 8620.0 | 8960.4 | 9130.5 | 9081.2 | 8624.5 | 8628.9 | 7916.9 |
| 17.5° | 8248.4 | 8315.5 | 8342.4 | 8481.1 | 8781.2 | 9099.1 | 9591.7 | 9658.9 | 9282.7 | 9224.5 | 8324.5 |
| 20° | 8333.4 | 8284.2 | 8319.9 | 8445.3 | 8843.9 | 9340.9 | 9985.8 | 10429.1 | 9900.7 | 9860.4 | 8745.4 |
| 22.5° | 8660.3 | 8593.1 | 8584.2 | 8664.7 | 8951.4 | 9466.3 | 10402.2 | 11199.3 | 10652.9 | 10675.3 | 9269.2 |
| 25° | 8915.5 | 8951.4 | 8920.0 | 8915.5 | 9094.7 | 9654.4 | 10953.0 | 12117.2 | 11673.9 | 11544.1 | 9887.2 |
| 27.5° | 9354.4 | 9439.5 | 9376.7 | 9461.8 | 9421.6 | 9936.5 | 11347.0 | 13133.7 | 12775.5 | 12600.9 | 10447.0 |
| 30° | 9963.3 | 10008.2 | 9950.0 | 9950.0 | 9829.0 | 10330.6 | 11705.3 | 14195.0 | 14047.2 | 13809.9 | 11105.2 |
| 32.5° | 10764.9 | 10832.1 | 10715.7 | 10648.5 | 10630.6 | 10917.2 | 12350.1 | 15242.8 | 15493.6 | 15292.1 | 11978.4 |
| 35° | 11826.1 | 11785.9 | 11647.1 | 11584.4 | 11342.6 | 11817.2 | 13308.4 | 16447.4 | 17105.6 | 16747.4 | 13035.2 |
| 37.5° | 12762.1 | 12699.4 | 12690.4 | 12341.2 | 12399.4 | 12788.9 | 14123.3 | 17360.8 | 18668.4 | 18565.4 | 14150.2 |
| 40° | 13635.2 | 13693.5 | 13787.5 | 13590.5 | 13500.9 | 13930.8 | 15072.7 | 18059.5 | 19881.9 | 19841.6 | 15010.0 |
| 42.5° | 14571.2 | 14517.4 | 14683.1 | 14517.4 | 14383.0 | 14992.1 | 16102.6 | 18543.0 | 20947.7 | 20616.4 | 15910.0 |
| 45° | 15928.0 | 15757.8 | 15816.0 | 15829.5 | 15730.9 | 15954.8 | 16528.0 | 18892.3 | 21695.5 | 21659.7 | 16568.3 |
| 47.5° | 17060.9 | 17065.3 | 16966.8 | 16890.7 | 16590.7 | 16814.5 | 17002.7 | 19111.7 | 22555.3 | 22497.1 | 16823.5 |
| 50° | 17481.8 | 17423.6 | 17710.2 | 17875.9 | 17893.8 | 17437.0 | 17374.3 | 19232.7 | 23007.6 | 22752.3 | 17078.8 |
| 52.5° | 15968.2 | 16022.0 | 16474.3 | 17459.4 | 18028.1 | 18077.4 | 17808.7 | 19483.4 | 23191.2 | 23137.4 | 17284.7 |
| 55° | 12851.7 | 13111.4 | 13854.6 | 14992.1 | 16340.0 | 17822.1 | 18278.9 | 19743.1 | 23289.6 | 23244.9 | 18198.2 |
| 56° | 11297.7 | 11499.3 | 12466.5 | 13357.6 | 15050.3 | 16895.2 | 17983.3 | 20020.8 | 23365.8 | 23576.3 | 18413.2 |
| 57.5° | 9094.7 | 9327.5 | 10021.6 | 11033.6 | 13030.7 | 15130.9 | 17168.3 | 19680.4 | 23070.2 | 23150.8 | 18570.0 |
| 60° | 5686.9 | 5709.4 | 6542.2 | 7209.5 | 8615.5 | 10666.4 | 13102.4 | 17123.5 | 21350.7 | 21234.2 | 16680.2 |
| 62.5° | 3730.1 | 3734.5 | 4491.4 | 5037.7 | 5678.0 | 6148.2 | 7711.0 | 11356.0 | 15753.3 | 15547.3 | 11875.4 |
| 65° | 2619.5 | 2677.8 | 3264.4 | 3994.3 | 4254.0 | 4007.7 | 3958.5 | 5987.0 | 8799.1 | 8503.6 | 6381.0 |
| 67.5° | 1916.6 | 1921.0 | 2440.5 | 3224.1 | 3600.2 | 3049.5 | 2476.3 | 2924.1 | 3483.8 | 3474.8 | 2955.4 |
| 70° | 1267.2 | 1321.0 | 1719.5 | 2409.1 | 2839.0 | 2449.4 | 2024.0 | 2091.1 | 2216.5 | 2216.5 | 2198.6 |
| 72.5° | 738.8 | 788.1 | 1052.3 | 1527.0 | 1594.1 | 1531.5 | 1603.1 | 1791.2 | 1871.7 | 1867.3 | 1844.9 |
| 75° | 420.9 | 443.3 | 501.5 | 635.9 | 792.6 | 935.9 | 1177.7 | 1356.8 | 1437.4 | 1486.6 | 1428.4 |
| 77.5° | 246.2 | 259.7 | 295.5 | 362.7 | 412.0 | 506.0 | 640.3 | 765.7 | 873.2 | 859.8 | 868.8 |
| 80° | 129.9 | 129.9 | 165.7 | 215.0 | 286.6 | 358.3 | 425.4 | 497.0 | 555.2 | 568.7 | 582.1 |
| 82.5° | 76.1 | 80.6 | 107.5 | 156.8 | 206.0 | 255.2 | 326.9 | 376.2 | 429.9 | 434.4 | 443.3 |
| 85° | 40.3 | 44.7 | 67.2 | 103.0 | 138.8 | 156.8 | 161.2 | 152.2 | 165.7 | 156.8 | 179.1 |
| 87.5° | 13.5 | 13.5 | 22.4 | 17.9 | 17.9 | 22.4 | 26.8 | 26.8 | 35.8 | 35.8 | 35.8 |
| 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-SA7C-840-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 | 6609.4 |
| 2.5° | 6645.2 | 6645.2 | 6569.1 | 6425.8 | 6403.5 | 6345.2 | 6291.4 | 6287.0 | 6246.7 | 6210.9 | 6193.0 |
| 5° | 6770.6 | 6631.8 | 6519.9 | 6390.0 | 6237.7 | 6166.1 | 6085.5 | 5995.9 | 5960.1 | 5995.9 | 5991.5 |
| 7.5° | 6913.9 | 6797.5 | 6461.7 | 6219.8 | 6045.2 | 5973.5 | 5884.0 | 5789.9 | 5798.9 | 5798.9 | 5736.2 |
| 10° | 7052.7 | 6896.0 | 6358.6 | 6049.6 | 5794.4 | 5740.7 | 5691.5 | 5727.3 | 5772.0 | 5780.9 | 5740.7 |
| 12.5° | 7285.6 | 6931.8 | 6309.4 | 5879.5 | 5718.3 | 5601.9 | 5633.2 | 5731.8 | 5825.8 | 5798.9 | 5830.2 |
| 15° | 7460.2 | 6963.1 | 6085.5 | 5704.8 | 5503.3 | 5557.1 | 5669.0 | 5736.2 | 5893.0 | 5875.1 | 5906.3 |
| 17.5° | 7630.4 | 6981.1 | 5866.1 | 5472.1 | 5386.9 | 5534.7 | 5619.8 | 5812.3 | 5861.6 | 5969.1 | 6009.4 |
| 20° | 7979.7 | 7016.9 | 5642.2 | 5328.7 | 5301.8 | 5472.1 | 5619.8 | 5709.4 | 5816.8 | 5910.9 | 5910.9 |
| 22.5° | 8158.8 | 6999.0 | 5494.4 | 5140.6 | 5225.7 | 5333.2 | 5467.5 | 5619.8 | 5619.8 | 5709.4 | 5713.8 |
| 25° | 8382.7 | 6927.3 | 5261.5 | 5051.1 | 5113.8 | 5216.8 | 5369.0 | 5315.3 | 5373.5 | 5373.5 | 5445.1 |
| 27.5° | 8637.9 | 6775.1 | 5060.0 | 4889.9 | 5015.3 | 5127.2 | 5149.6 | 5113.8 | 5046.6 | 5037.7 | 5010.8 |
| 30° | 8843.9 | 6587.0 | 4912.3 | 4836.2 | 4939.1 | 5001.8 | 4930.2 | 4854.1 | 4737.6 | 4728.7 | 4666.0 |
| 32.5° | 9126.0 | 6354.2 | 4728.7 | 4701.8 | 4818.3 | 4822.7 | 4800.3 | 4683.9 | 4513.7 | 4442.1 | 4370.4 |
| 35° | 9600.7 | 6219.8 | 4589.8 | 4630.1 | 4666.0 | 4652.6 | 4612.2 | 4486.9 | 4316.7 | 4285.4 | 4258.5 |
| 37.5° | 9950.0 | 6121.3 | 4446.5 | 4495.8 | 4527.2 | 4545.1 | 4424.2 | 4285.4 | 4289.9 | 4227.1 | 4209.2 |
| 40° | 10344.0 | 6058.6 | 4330.1 | 4352.5 | 4357.1 | 4415.2 | 4267.5 | 4200.3 | 4231.7 | 4191.3 | 4218.2 |
| 42.5° | 10850.0 | 6076.6 | 4209.2 | 4191.3 | 4276.4 | 4254.0 | 4182.4 | 4092.8 | 4110.7 | 3989.8 | 4007.7 |
| 45° | 11118.7 | 6197.4 | 4137.6 | 4057.0 | 4151.0 | 4146.6 | 4052.5 | 3967.4 | 3859.9 | 3627.1 | 3636.1 |
| 47.5° | 11297.7 | 6228.8 | 3967.4 | 3913.7 | 4012.2 | 4070.4 | 3963.0 | 3765.9 | 3613.7 | 3448.0 | 3407.7 |
| 50° | 11481.4 | 6287.0 | 3886.8 | 3774.9 | 3815.2 | 3954.0 | 3819.7 | 3631.6 | 3483.8 | 3336.1 | 3358.4 |
| 52.5° | 11642.6 | 6398.9 | 3730.1 | 3564.4 | 3636.1 | 3788.3 | 3716.6 | 3488.3 | 3327.1 | 3206.2 | 3170.4 |
| 55° | 12359.1 | 6649.7 | 3465.9 | 3251.0 | 3421.1 | 3613.7 | 3573.4 | 3295.7 | 3121.1 | 3058.4 | 3049.5 |
| 56° | 12471.0 | 6658.7 | 3327.1 | 3143.5 | 3300.3 | 3555.5 | 3506.2 | 3210.7 | 3053.9 | 2955.4 | 2959.9 |
| 57.5° | 12488.9 | 6551.2 | 3130.0 | 3045.0 | 3179.3 | 3470.4 | 3407.7 | 3143.5 | 2928.5 | 2839.0 | 2812.1 |
| 60° | 10988.8 | 5113.8 | 2883.8 | 2830.0 | 2986.8 | 3210.7 | 3188.3 | 2959.9 | 2718.1 | 2615.1 | 2664.4 |
| 62.5° | 7491.5 | 3748.0 | 2691.2 | 2682.3 | 2762.9 | 2982.3 | 2924.1 | 2718.1 | 2516.6 | 2449.4 | 2418.0 |
| 65° | 4361.5 | 2843.5 | 2503.2 | 2467.3 | 2534.5 | 2650.9 | 2691.2 | 2476.3 | 2265.8 | 2221.1 | 2207.6 |
| 67.5° | 2574.8 | 2350.9 | 2261.4 | 2203.2 | 2180.7 | 2252.4 | 2283.7 | 2158.3 | 1947.9 | 1885.2 | 1938.9 |
| 70° | 2153.9 | 2091.1 | 2095.7 | 1997.1 | 1943.4 | 1894.2 | 1867.3 | 1755.3 | 1580.7 | 1500.1 | 1477.7 |
| 72.5° | 1858.4 | 1831.4 | 1813.5 | 1724.0 | 1674.8 | 1562.8 | 1446.4 | 1334.4 | 1204.6 | 1137.4 | 1141.9 |
| 75° | 1419.5 | 1410.5 | 1419.5 | 1374.7 | 1289.7 | 1200.1 | 1092.6 | 949.3 | 850.8 | 765.7 | 783.6 |
| 77.5° | 846.3 | 873.2 | 886.7 | 868.8 | 832.9 | 752.3 | 685.2 | 591.1 | 497.0 | 429.9 | 420.9 |
| 80° | 582.1 | 604.5 | 626.9 | 604.5 | 568.7 | 510.5 | 438.8 | 367.2 | 300.0 | 264.2 | 255.2 |
| 82.5° | 443.3 | 465.7 | 479.1 | 456.7 | 412.0 | 349.3 | 300.0 | 250.8 | 197.0 | 161.2 | 152.2 |
| 85° | 161.2 | 183.6 | 179.1 | 215.0 | 232.9 | 223.9 | 192.6 | 147.8 | 111.9 | 80.6 | 76.1 |
| 87.5° | 44.7 | 40.3 | 44.7 | 44.7 | 44.7 | 40.3 | 35.8 | 35.8 | 35.8 | 22.4 | 17.9 |
| 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)