

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: P451188

Luminaire Tested: **GALN-SA2A-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6604 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

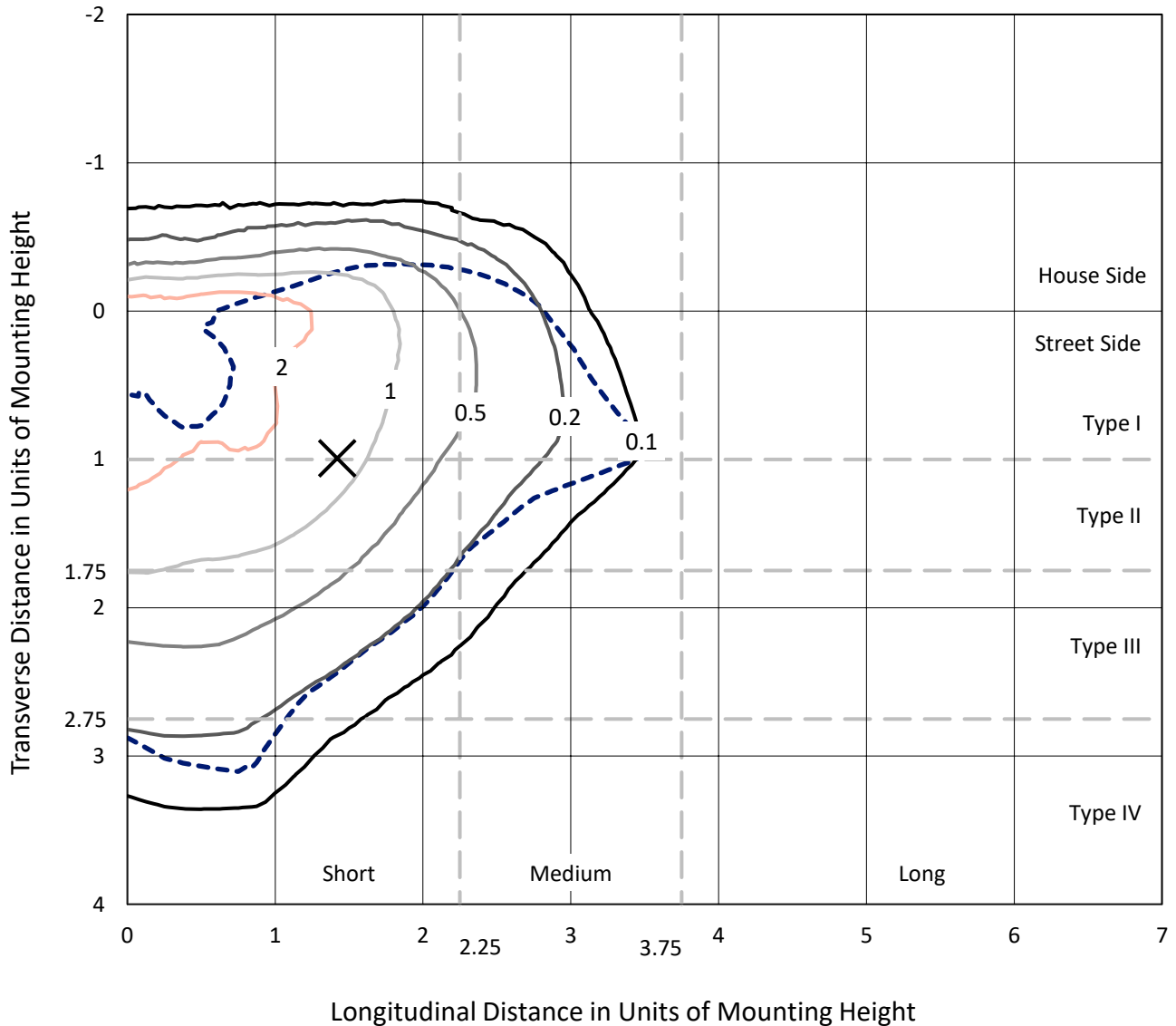




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Iso-Footcandle Lines of Horizontal Illumination

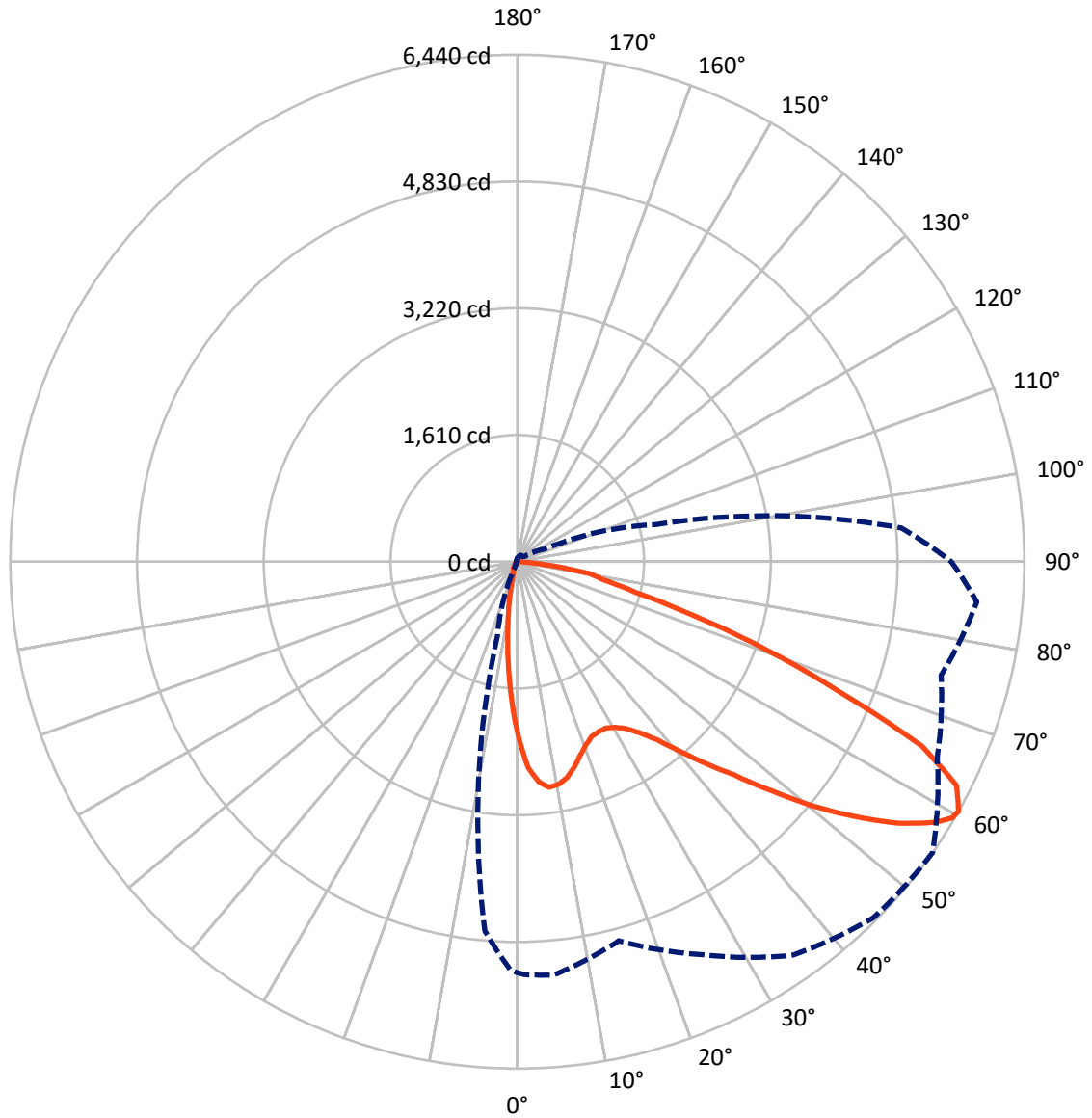
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 980.1 | 0.0 | 980.1 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 5623.9 | 0.0 | 5623.9 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 6604.0 | 0.0 | 6604.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.6 | 2.5 |
| 10°-20° | 326.1 | 4.9 |
| 20°-30° | 482.7 | 7.3 |
| 30°-40° | 719.4 | 10.9 |
| 40°-50° | 1053.6 | 16.0 |
| 50°-60° | 1521.1 | 23.0 |
| 60°-70° | 1600.1 | 24.2 |
| 70°-80° | 658.2 | 10.0 |
| 80°-90° | 77.1 | 1.2 |
| 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° | 6604.0 | 100.0 |
| 0°-180° | 6604.0 | 100.0 |

Coefficient of Utilization



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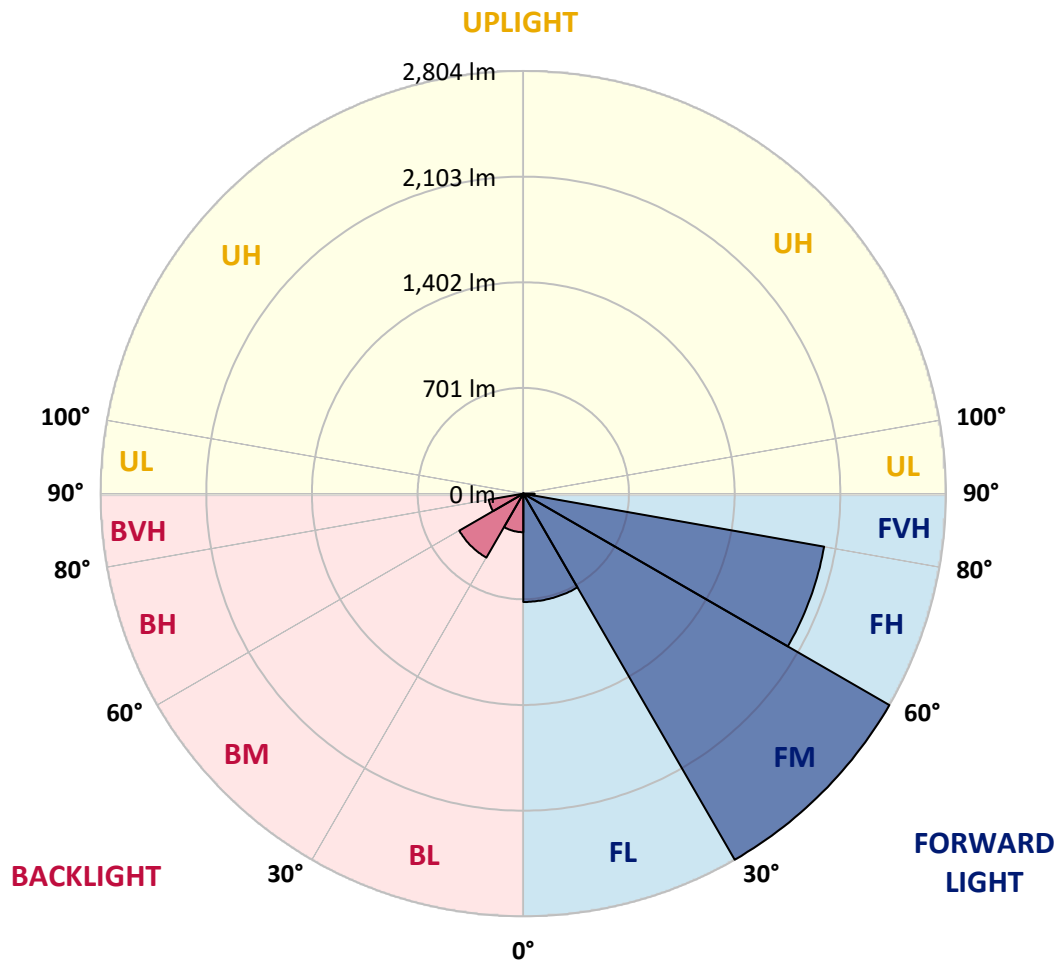
CATALOG NUMBER: GALN-SA2A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 718.6 | 10.9 | | | |
| FM | (30°-60°) | 2804.1 | 42.5 | | | |
| FH | (60°-80°) | 2026.4 | 30.7 | | | G2/5000 |
| FVH | (80°-90°) | 74.8 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 255.7 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 490.1 | 7.4 | B1/1000 | | |
| BH | (60°-80°) | 232.0 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P451188

CATALOG NUMBER: GALN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 |
| 2.5° | 2443.0 | 2438.9 | 2475.0 | 2534.0 | 2593.4 | 2624.5 | 2618.4 | 2615.8 | 2566.5 | 2530.4 | 2454.7 |
| 5° | 2437.9 | 2458.7 | 2523.3 | 2682.9 | 2803.9 | 2862.3 | 2879.6 | 2806.9 | 2710.9 | 2571.6 | 2399.8 |
| 7.5° | 2292.0 | 2317.9 | 2423.2 | 2672.7 | 2887.8 | 3014.8 | 3010.3 | 2893.9 | 2695.6 | 2480.1 | 2235.1 |
| 10° | 2111.0 | 2141.5 | 2265.1 | 2568.0 | 2847.1 | 3014.8 | 3024.0 | 2876.6 | 2630.0 | 2353.5 | 2095.8 |
| 12.5° | 1983.5 | 2019.6 | 2156.3 | 2470.4 | 2742.4 | 2907.6 | 2918.3 | 2811.5 | 2580.7 | 2304.7 | 2020.1 |
| 15° | 1940.3 | 1974.3 | 2113.1 | 2421.1 | 2631.1 | 2720.0 | 2717.5 | 2706.3 | 2561.4 | 2316.4 | 2024.1 |
| 17.5° | 2014.5 | 2042.4 | 2199.0 | 2443.5 | 2526.9 | 2517.7 | 2530.9 | 2584.8 | 2565.5 | 2414.5 | 2152.2 |
| 20° | 2206.1 | 2234.6 | 2402.8 | 2512.1 | 2447.0 | 2389.1 | 2395.2 | 2485.2 | 2603.1 | 2599.0 | 2352.5 |
| 22.5° | 2469.9 | 2518.2 | 2670.7 | 2645.3 | 2436.4 | 2309.3 | 2296.6 | 2413.5 | 2667.2 | 2811.5 | 2622.9 |
| 25° | 2803.9 | 2852.7 | 2971.6 | 2857.8 | 2488.7 | 2290.5 | 2278.8 | 2391.6 | 2744.9 | 3018.9 | 2927.4 |
| 27.5° | 3084.5 | 3121.6 | 3240.0 | 3064.7 | 2566.0 | 2298.6 | 2279.3 | 2394.7 | 2808.0 | 3195.3 | 3184.1 |
| 30° | 3309.2 | 3336.6 | 3406.2 | 3161.2 | 2632.6 | 2334.2 | 2311.8 | 2439.4 | 2835.9 | 3281.2 | 3392.0 |
| 32.5° | 3490.1 | 3536.4 | 3558.2 | 3264.4 | 2728.1 | 2401.3 | 2363.2 | 2525.3 | 2904.0 | 3387.4 | 3610.1 |
| 35° | 3697.0 | 3750.4 | 3722.4 | 3363.0 | 2854.2 | 2506.0 | 2459.2 | 2664.6 | 3007.2 | 3485.5 | 3863.2 |
| 37.5° | 3959.3 | 4020.8 | 3911.5 | 3466.7 | 2987.4 | 2663.6 | 2641.7 | 2860.3 | 3163.8 | 3625.8 | 4134.7 |
| 40° | 4230.7 | 4266.3 | 4095.0 | 3592.8 | 3151.1 | 2892.8 | 2913.7 | 3151.1 | 3368.6 | 3794.1 | 4423.4 |
| 42.5° | 4442.7 | 4476.3 | 4283.6 | 3698.5 | 3318.3 | 3164.8 | 3251.7 | 3501.8 | 3603.5 | 3966.4 | 4638.9 |
| 45° | 4604.9 | 4633.3 | 4414.2 | 3813.9 | 3544.0 | 3558.7 | 3722.9 | 3863.2 | 3838.8 | 4071.6 | 4805.1 |
| 47.5° | 4730.9 | 4755.3 | 4514.9 | 3937.9 | 3882.0 | 4040.6 | 4291.7 | 4351.2 | 4082.8 | 4185.5 | 4955.6 |
| 50° | 4782.8 | 4789.9 | 4546.4 | 4096.0 | 4265.8 | 4654.7 | 4916.5 | 4880.4 | 4362.4 | 4312.1 | 5115.7 |
| 52.5° | 4850.4 | 4848.9 | 4636.4 | 4246.5 | 4626.7 | 5203.7 | 5464.9 | 5383.1 | 4678.6 | 4501.7 | 5295.7 |
| 55° | 5027.8 | 5029.8 | 4829.0 | 4460.0 | 4934.3 | 5646.9 | 5926.5 | 5867.0 | 5012.0 | 4821.9 | 5505.6 |
| 57.5° | 5243.3 | 5250.9 | 5103.0 | 4709.6 | 5228.1 | 5968.2 | 6271.1 | 6248.3 | 5462.9 | 5178.2 | 5703.8 |
| 59° | 5271.3 | 5286.5 | 5232.6 | 4885.5 | 5402.4 | 6066.8 | 6389.1 | 6411.4 | 5704.4 | 5413.1 | 5811.1 |
| 60° | 5220.4 | 5245.9 | 5270.3 | 4985.1 | 5504.6 | 6102.4 | 6396.2 | 6439.9 | 5885.8 | 5572.7 | 5859.9 |
| 62.5° | 4998.8 | 5039.0 | 5161.5 | 5291.6 | 5632.2 | 5991.6 | 6169.0 | 6260.5 | 6110.5 | 5992.1 | 5864.5 |
| 65° | 4708.6 | 4729.4 | 4906.3 | 5346.0 | 5384.6 | 5474.1 | 5529.0 | 5646.4 | 5840.6 | 6153.7 | 5654.5 |
| 67.5° | 4232.8 | 4294.3 | 4510.8 | 5030.3 | 4654.2 | 4548.4 | 4534.7 | 4417.8 | 4922.1 | 5768.4 | 5137.1 |
| 70° | 3496.7 | 3524.2 | 3791.0 | 4124.0 | 3512.5 | 3349.8 | 3414.9 | 3371.2 | 3815.4 | 4965.8 | 4134.7 |
| 72.5° | 2644.3 | 2706.3 | 2967.1 | 3287.3 | 2390.1 | 2179.2 | 2358.6 | 2342.3 | 2865.9 | 3990.8 | 2840.5 |
| 75° | 1881.3 | 1921.4 | 2253.9 | 2572.6 | 1673.9 | 1418.2 | 1482.8 | 1543.3 | 2000.7 | 3151.1 | 1678.5 |
| 77.5° | 1292.7 | 1327.2 | 1576.8 | 1701.3 | 1221.0 | 1169.6 | 1070.0 | 1128.5 | 1311.0 | 1869.6 | 913.4 |
| 80° | 779.8 | 778.2 | 942.4 | 972.9 | 850.4 | 987.7 | 828.6 | 930.2 | 792.5 | 800.1 | 353.8 |
| 82.5° | 506.3 | 501.2 | 576.4 | 628.3 | 473.2 | 497.6 | 334.0 | 481.4 | 516.5 | 223.2 | 111.8 |
| 85° | 226.7 | 236.4 | 277.0 | 365.5 | 207.4 | 110.3 | 68.1 | 147.9 | 220.1 | 112.3 | 0.0 |
| 87.5° | 23.4 | 18.3 | 48.8 | 89.0 | 28.5 | 3.0 | 10.2 | 5.1 | 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 | 0.0 |



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CATALOG NUMBER: GALN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 |
| 2.5° | 2419.6 | 2390.1 | 2302.2 | 2219.8 | 2149.2 | 2062.8 | 2006.8 | 1918.9 | 1865.5 | 1849.3 | 1851.8 |
| 5° | 2322.5 | 2237.6 | 2070.4 | 1936.7 | 1787.8 | 1702.9 | 1573.8 | 1449.7 | 1382.6 | 1357.7 | 1346.5 |
| 7.5° | 2119.2 | 2028.2 | 1826.4 | 1616.5 | 1456.8 | 1307.9 | 1211.8 | 1102.5 | 1027.8 | 966.3 | 955.6 |
| 10° | 1968.2 | 1848.8 | 1598.7 | 1373.0 | 1246.9 | 1135.1 | 1039.0 | 929.7 | 841.8 | 771.6 | 752.3 |
| 12.5° | 1877.7 | 1744.0 | 1465.0 | 1275.9 | 1156.4 | 1041.5 | 916.5 | 789.9 | 700.0 | 624.2 | 589.1 |
| 15° | 1861.5 | 1706.4 | 1427.4 | 1206.2 | 1058.8 | 920.1 | 753.8 | 617.1 | 524.6 | 452.9 | 431.1 |
| 17.5° | 1959.6 | 1774.0 | 1421.8 | 1133.6 | 931.2 | 734.5 | 561.7 | 448.3 | 344.1 | 304.0 | 288.2 |
| 20° | 2134.4 | 1893.5 | 1421.3 | 1049.2 | 800.1 | 565.8 | 394.5 | 292.3 | 250.1 | 230.8 | 221.6 |
| 22.5° | 2372.8 | 2056.2 | 1448.2 | 976.5 | 663.9 | 417.3 | 281.6 | 232.8 | 208.4 | 192.7 | 189.1 |
| 25° | 2664.1 | 2297.1 | 1514.3 | 927.2 | 559.7 | 327.4 | 232.3 | 199.3 | 178.9 | 171.8 | 168.8 |
| 27.5° | 2922.8 | 2527.9 | 1587.0 | 876.3 | 484.9 | 289.7 | 215.5 | 182.5 | 166.2 | 160.6 | 156.1 |
| 30° | 3146.0 | 2737.3 | 1622.0 | 809.2 | 425.0 | 265.3 | 218.6 | 195.2 | 173.8 | 157.1 | 149.4 |
| 32.5° | 3332.0 | 2897.9 | 1644.9 | 748.2 | 374.1 | 217.1 | 172.8 | 151.0 | 141.3 | 135.2 | 130.1 |
| 35° | 3564.8 | 3071.8 | 1631.2 | 713.7 | 348.2 | 197.7 | 157.6 | 130.1 | 113.9 | 101.7 | 96.6 |
| 37.5° | 3808.8 | 3245.6 | 1607.3 | 685.2 | 336.5 | 183.5 | 150.0 | 123.5 | 105.7 | 93.0 | 86.4 |
| 40° | 4061.5 | 3406.8 | 1579.3 | 658.8 | 325.8 | 174.4 | 145.4 | 117.9 | 100.1 | 86.4 | 79.3 |
| 42.5° | 4292.8 | 3563.8 | 1568.2 | 641.5 | 308.5 | 175.9 | 141.8 | 115.4 | 94.5 | 80.3 | 74.2 |
| 45° | 4479.8 | 3712.8 | 1583.4 | 632.3 | 289.7 | 173.3 | 142.8 | 112.3 | 90.0 | 76.2 | 70.1 |
| 47.5° | 4679.6 | 3923.2 | 1632.7 | 623.2 | 271.4 | 161.1 | 150.5 | 111.8 | 87.9 | 73.7 | 67.1 |
| 50° | 4911.9 | 4192.6 | 1745.6 | 600.8 | 249.1 | 147.9 | 160.1 | 111.3 | 85.4 | 70.7 | 64.0 |
| 52.5° | 5221.5 | 4498.6 | 1862.0 | 561.7 | 216.5 | 135.2 | 153.0 | 109.8 | 80.3 | 67.1 | 60.5 |
| 55° | 5499.5 | 4820.9 | 1960.6 | 515.4 | 175.4 | 116.9 | 137.8 | 103.2 | 71.7 | 61.0 | 54.9 |
| 57.5° | 5614.4 | 5002.9 | 1957.5 | 451.4 | 140.3 | 102.7 | 113.4 | 94.5 | 62.5 | 53.9 | 48.8 |
| 59° | 5572.2 | 4980.0 | 1892.0 | 404.1 | 128.1 | 95.1 | 94.0 | 93.5 | 58.5 | 48.8 | 44.7 |
| 60° | 5512.7 | 4896.6 | 1821.3 | 380.7 | 120.5 | 90.0 | 86.4 | 92.5 | 54.9 | 45.7 | 41.7 |
| 62.5° | 5285.0 | 4551.0 | 1587.0 | 341.1 | 110.3 | 76.2 | 69.1 | 78.3 | 48.8 | 39.6 | 36.1 |
| 65° | 4955.1 | 4019.8 | 1343.5 | 329.9 | 107.3 | 63.0 | 57.4 | 55.9 | 41.7 | 33.5 | 30.5 |
| 67.5° | 4311.6 | 3401.7 | 1088.3 | 322.3 | 108.3 | 52.9 | 50.3 | 42.2 | 34.6 | 28.0 | 25.9 |
| 70° | 3452.0 | 2652.4 | 891.1 | 313.6 | 109.3 | 43.2 | 42.2 | 33.5 | 28.0 | 23.4 | 21.3 |
| 72.5° | 2097.3 | 1572.2 | 701.5 | 272.5 | 106.2 | 34.6 | 37.6 | 25.4 | 20.3 | 16.8 | 15.8 |
| 75° | 1296.7 | 1076.1 | 435.1 | 212.0 | 70.1 | 25.4 | 26.4 | 15.8 | 13.7 | 10.7 | 10.7 |
| 77.5° | 751.3 | 679.6 | 155.5 | 76.2 | 31.0 | 15.2 | 11.7 | 8.1 | 7.6 | 4.6 | 4.6 |
| 80° | 311.6 | 249.6 | 53.9 | 25.9 | 16.8 | 7.1 | 2.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 91.0 | 80.8 | 14.7 | 11.7 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 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 | 0.0 |



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 CATALOG NUMBER: GALN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 | 2236.1 |
| 2.5° | 1808.6 | 1791.8 | 1784.2 | 1810.1 | 1786.2 | 1816.7 | 1793.4 | 1803.5 | 1833.5 | 1846.7 | 1880.8 |
| 5° | 1353.7 | 1336.4 | 1328.2 | 1367.4 | 1365.3 | 1384.7 | 1382.6 | 1400.4 | 1415.7 | 1381.6 | 1416.7 |
| 7.5° | 942.9 | 931.2 | 950.6 | 981.1 | 1013.6 | 1002.9 | 1002.9 | 979.0 | 987.2 | 982.1 | 980.5 |
| 10° | 717.2 | 677.1 | 666.9 | 665.9 | 678.1 | 680.6 | 666.9 | 633.9 | 646.1 | 649.6 | 671.0 |
| 12.5° | 564.2 | 533.2 | 486.0 | 464.6 | 459.0 | 463.6 | 418.3 | 389.4 | 403.1 | 395.0 | 415.8 |
| 15° | 404.6 | 379.2 | 351.2 | 327.4 | 320.7 | 311.6 | 262.3 | 227.7 | 223.7 | 225.2 | 228.7 |
| 17.5° | 288.7 | 271.4 | 271.4 | 246.0 | 232.3 | 204.9 | 179.9 | 164.7 | 163.2 | 164.7 | 167.2 |
| 20° | 213.0 | 203.8 | 202.8 | 196.2 | 181.0 | 162.7 | 145.4 | 142.3 | 141.3 | 143.9 | 144.9 |
| 22.5° | 183.5 | 173.8 | 165.7 | 165.2 | 151.0 | 135.7 | 127.6 | 123.5 | 124.0 | 125.0 | 127.6 |
| 25° | 164.2 | 154.0 | 145.4 | 140.3 | 130.1 | 119.5 | 111.8 | 109.8 | 109.8 | 111.3 | 111.8 |
| 27.5° | 150.5 | 137.8 | 130.1 | 123.0 | 113.9 | 104.7 | 98.1 | 96.6 | 95.6 | 96.6 | 99.1 |
| 30° | 140.8 | 128.1 | 118.4 | 107.8 | 100.6 | 92.0 | 86.4 | 84.4 | 83.9 | 84.4 | 86.4 |
| 32.5° | 120.5 | 112.8 | 105.2 | 95.6 | 86.9 | 81.3 | 75.2 | 71.7 | 71.7 | 72.7 | 74.7 |
| 35° | 91.0 | 86.9 | 86.4 | 83.9 | 76.8 | 70.7 | 63.5 | 60.0 | 60.0 | 62.0 | 63.0 |
| 37.5° | 80.3 | 72.7 | 71.7 | 70.7 | 67.6 | 59.5 | 52.9 | 49.8 | 49.3 | 50.8 | 52.9 |
| 40° | 73.2 | 64.6 | 60.0 | 59.0 | 59.5 | 50.3 | 43.2 | 40.2 | 40.2 | 40.7 | 42.7 |
| 42.5° | 67.6 | 57.4 | 49.3 | 48.3 | 50.3 | 42.2 | 35.1 | 32.0 | 32.0 | 32.0 | 34.6 |
| 45° | 63.0 | 51.3 | 41.7 | 36.6 | 39.6 | 34.6 | 28.5 | 25.4 | 24.4 | 25.4 | 26.4 |
| 47.5° | 60.0 | 46.8 | 36.6 | 29.5 | 29.5 | 27.4 | 22.9 | 19.3 | 18.3 | 18.8 | 20.3 |
| 50° | 57.4 | 42.7 | 31.0 | 23.9 | 21.3 | 21.9 | 17.3 | 14.7 | 13.7 | 13.7 | 15.2 |
| 52.5° | 53.4 | 38.6 | 26.9 | 20.3 | 16.3 | 14.7 | 12.7 | 10.7 | 10.2 | 10.7 | 11.7 |
| 55° | 48.3 | 35.1 | 23.4 | 16.8 | 12.7 | 10.2 | 9.1 | 7.6 | 7.1 | 7.6 | 9.1 |
| 57.5° | 42.7 | 29.5 | 18.8 | 13.2 | 8.6 | 6.6 | 6.1 | 5.1 | 4.1 | 4.6 | 5.6 |
| 59° | 39.1 | 26.4 | 16.3 | 10.7 | 6.6 | 4.6 | 4.6 | 3.6 | 2.5 | 3.0 | 4.6 |
| 60° | 37.6 | 24.4 | 13.7 | 9.1 | 5.6 | 3.6 | 3.6 | 2.5 | 1.5 | 2.0 | 3.6 |
| 62.5° | 32.0 | 20.3 | 10.7 | 5.6 | 2.5 | 0.5 | 1.5 | 0.5 | 0.0 | 0.5 | 1.5 |
| 65° | 26.9 | 16.3 | 7.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 67.5° | 22.4 | 12.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 17.8 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 7.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 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 | 0.0 |



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| 47.5° | 25.9 | 36.6 | 53.4 | 71.7 | 64.6 | 79.8 | 917.0 | 4042.7 | 4665.9 | 4730.9 |
| 50° | 20.8 | 30.5 | 55.9 | 63.0 | 53.9 | 67.6 | 915.0 | 4185.0 | 4739.6 | 4782.8 |
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| 62.5° | 6.1 | 10.7 | 13.7 | 19.3 | 25.4 | 37.6 | 850.9 | 4412.2 | 4971.4 | 4998.8 |
| 65° | 4.1 | 7.6 | 10.2 | 14.2 | 19.8 | 32.5 | 693.3 | 4027.9 | 4647.1 | 4708.6 |
| 67.5° | 2.5 | 5.6 | 8.1 | 10.7 | 16.3 | 27.4 | 494.1 | 3454.0 | 4193.1 | 4232.8 |
| 70° | 1.5 | 3.6 | 6.1 | 8.6 | 12.7 | 21.9 | 293.3 | 2730.2 | 3488.6 | 3496.7 |
| 72.5° | 1.0 | 2.5 | 4.1 | 6.1 | 10.2 | 19.8 | 142.3 | 1779.6 | 2547.2 | 2644.3 |
| 75° | 0.5 | 1.5 | 2.5 | 4.6 | 8.1 | 16.3 | 68.1 | 1189.0 | 1853.3 | 1881.3 |
| 77.5° | 0.0 | 0.5 | 1.5 | 3.0 | 6.1 | 12.7 | 39.6 | 780.8 | 1263.7 | 1292.7 |
| 80° | 0.0 | 0.0 | 1.0 | 2.5 | 4.6 | 8.1 | 23.9 | 460.5 | 765.5 | 779.8 |
| 82.5° | 0.0 | 0.0 | 0.5 | 2.0 | 3.0 | 6.1 | 12.2 | 202.3 | 501.2 | 506.3 |
| 85° | 0.0 | 0.0 | 0.5 | 2.0 | 2.5 | 4.1 | 4.6 | 27.4 | 222.6 | 226.7 |
| 87.5° | 0.0 | 0.0 | 0.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.5 | 18.8 | 23.4 |
| 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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