

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: P452578

Luminaire Tested: **GALN-SA3C-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17264 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

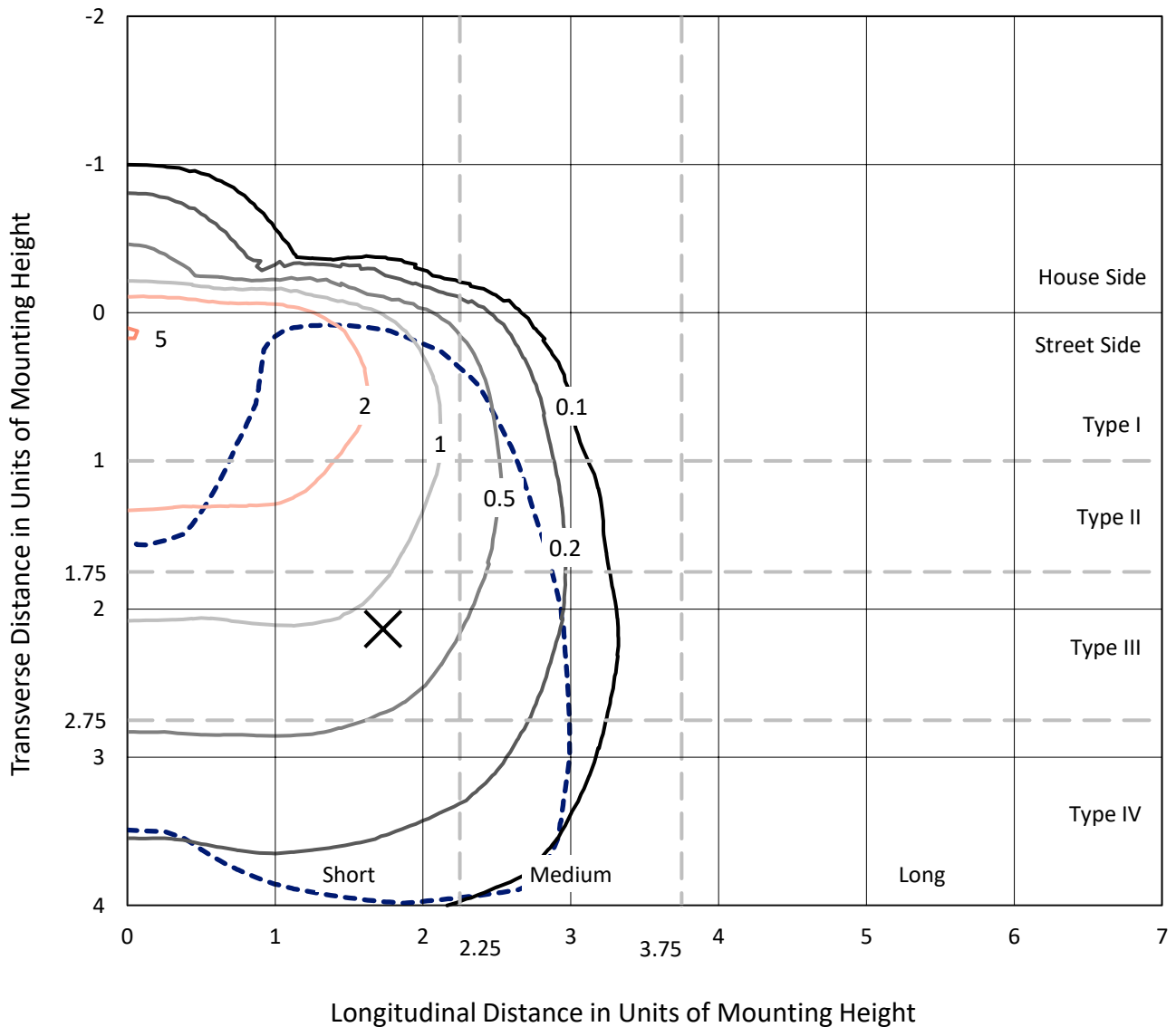
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452578
 CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

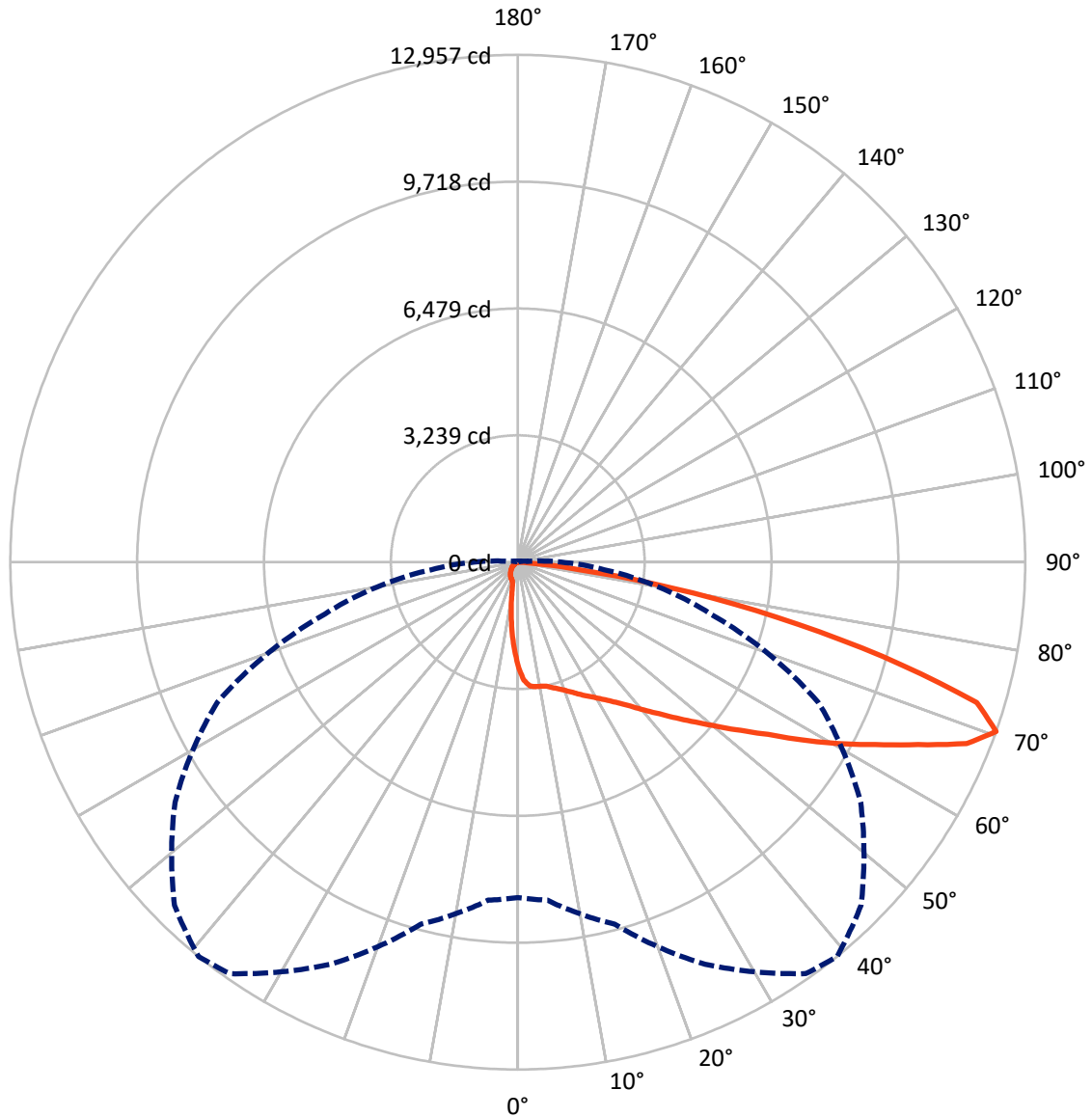
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P452578
CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P452578

CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1125.7 | 0.0 | 1125.7 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 16138.3 | 0.0 | 16138.3 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 17264.0 | 0.0 | 17264.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.8 | 1.3 |
| 10°-20° | 597.1 | 3.5 |
| 20°-30° | 1000.3 | 5.8 |
| 30°-40° | 1551.3 | 9.0 |
| 40°-50° | 2458.3 | 14.2 |
| 50°-60° | 3603.6 | 20.9 |
| 60°-70° | 4618.9 | 26.8 |
| 70°-80° | 2902.4 | 16.8 |
| 80°-90° | 302.4 | 1.8 |
| 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° | 17264.0 | 100.0 |
| 0°-180° | 17264.0 | 100.0 |



REPORT NUMBER: P452578

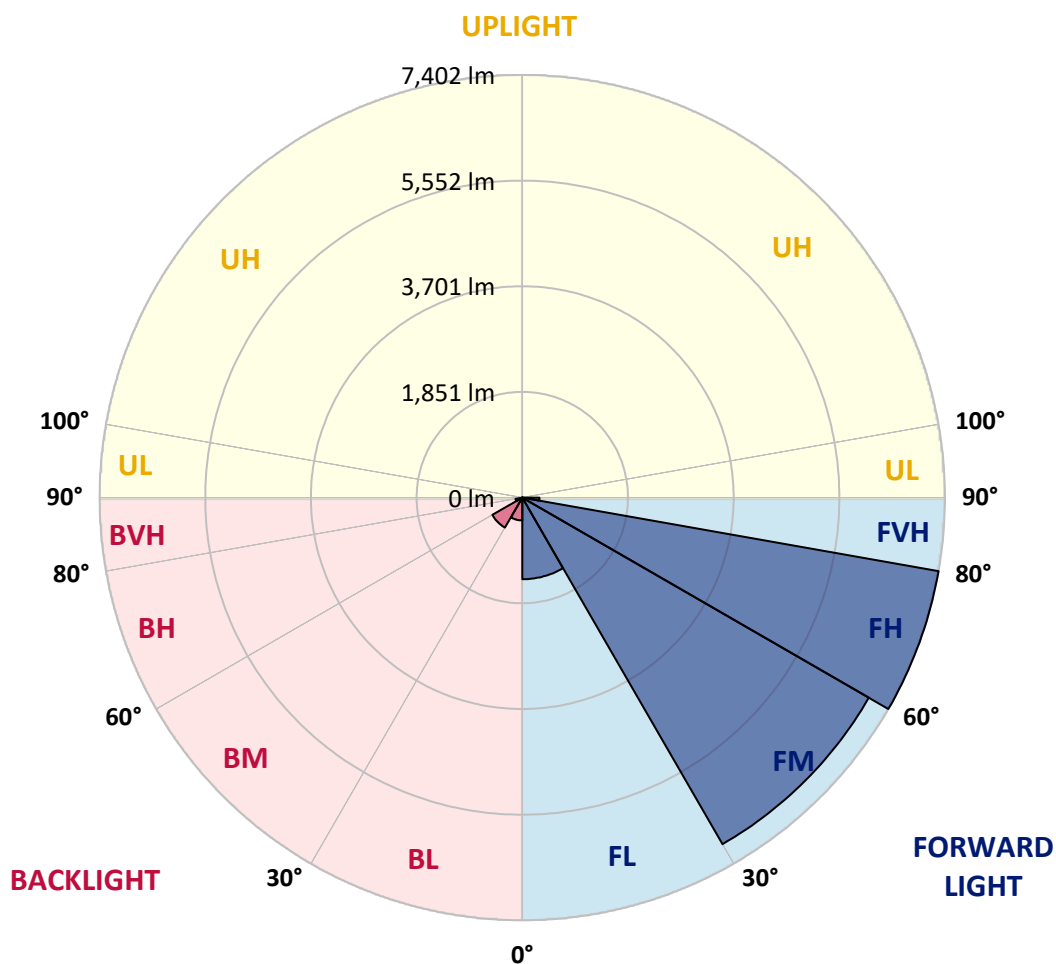
CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1428.5 | 8.3 | | | |
| FM (30°-60°) | 7007.4 | 40.6 | | | |
| FH (60°-80°) | 7402.2 | 42.9 | | | G3/7500 |
| FVH (80°-90°) | 300.1 | 1.7 | | | G3/500 |
| BL (0°-30°) | 398.6 | 2.3 | B1/500 | | |
| BM (30°-60°) | 605.8 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 119.0 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 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-G3

Type IV Short





REPORT NUMBER: P452578

CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 |
| 2.5° | 3112.6 | 3102.1 | 3088.2 | 3072.0 | 3025.6 | 3017.4 | 2989.6 | 2930.4 | 2859.7 | 2801.7 | 2721.6 |
| 5° | 3259.9 | 3265.7 | 3255.3 | 3226.3 | 3192.6 | 3172.9 | 3138.1 | 3046.4 | 2954.8 | 2837.6 | 2706.5 |
| 7.5° | 3293.6 | 3305.2 | 3292.4 | 3264.6 | 3232.1 | 3211.2 | 3183.3 | 3104.5 | 2997.7 | 2864.3 | 2684.5 |
| 10° | 3290.1 | 3304.0 | 3295.9 | 3270.4 | 3243.7 | 3223.9 | 3193.8 | 3131.1 | 3045.3 | 2904.9 | 2691.5 |
| 12.5° | 3284.3 | 3302.8 | 3301.7 | 3288.9 | 3266.9 | 3251.8 | 3233.2 | 3177.5 | 3097.5 | 2964.1 | 2729.7 |
| 15° | 3268.0 | 3291.2 | 3312.1 | 3322.6 | 3323.7 | 3323.7 | 3300.5 | 3241.3 | 3164.8 | 3041.8 | 2779.6 |
| 17.5° | 3275.0 | 3301.7 | 3353.9 | 3384.0 | 3404.9 | 3402.6 | 3378.2 | 3314.4 | 3229.7 | 3121.9 | 2831.8 |
| 20° | 3317.9 | 3353.9 | 3427.0 | 3487.3 | 3508.2 | 3501.2 | 3468.7 | 3394.5 | 3298.2 | 3190.3 | 2882.9 |
| 22.5° | 3423.5 | 3456.0 | 3547.6 | 3618.4 | 3633.5 | 3614.9 | 3568.5 | 3467.6 | 3380.6 | 3264.6 | 2944.4 |
| 25° | 3581.3 | 3619.5 | 3704.2 | 3757.6 | 3757.6 | 3747.2 | 3682.2 | 3563.9 | 3473.4 | 3367.8 | 3024.4 |
| 27.5° | 3772.7 | 3805.2 | 3888.7 | 3936.3 | 3908.4 | 3878.2 | 3813.3 | 3670.6 | 3583.6 | 3497.7 | 3120.7 |
| 30° | 3966.4 | 3987.3 | 4075.5 | 4096.3 | 4067.3 | 4029.1 | 3959.5 | 3816.8 | 3740.2 | 3674.1 | 3259.9 |
| 32.5° | 4149.7 | 4195.0 | 4268.0 | 4263.4 | 4224.0 | 4205.4 | 4141.6 | 3989.6 | 3946.7 | 3939.7 | 3454.8 |
| 35° | 4333.0 | 4367.8 | 4432.8 | 4449.0 | 4414.2 | 4410.7 | 4364.3 | 4251.8 | 4253.0 | 4298.2 | 3758.8 |
| 37.5° | 4490.8 | 4522.1 | 4598.7 | 4634.6 | 4641.6 | 4659.0 | 4640.4 | 4566.2 | 4671.8 | 4795.9 | 4161.3 |
| 40° | 4623.0 | 4667.1 | 4764.6 | 4827.2 | 4899.1 | 4963.0 | 4966.4 | 4982.7 | 5195.0 | 5408.4 | 4686.8 |
| 42.5° | 4726.3 | 4787.8 | 4929.3 | 5045.3 | 5210.1 | 5291.3 | 5356.2 | 5445.6 | 5802.9 | 6121.9 | 5306.3 |
| 45° | 4860.9 | 4931.6 | 5108.0 | 5290.1 | 5547.6 | 5681.1 | 5771.5 | 6010.5 | 6517.5 | 6952.5 | 5942.1 |
| 47.5° | 5083.6 | 5120.7 | 5300.5 | 5566.2 | 5905.0 | 6095.2 | 6271.6 | 6633.5 | 7284.3 | 7674.1 | 6471.1 |
| 50° | 5370.2 | 5394.5 | 5530.2 | 5899.2 | 6337.7 | 6588.3 | 6909.6 | 7335.4 | 8080.2 | 8272.7 | 6770.4 |
| 52.5° | 5686.9 | 5695.0 | 5797.1 | 6265.8 | 6822.6 | 7138.2 | 7497.8 | 8023.3 | 8728.7 | 8699.7 | 6968.8 |
| 55° | 6054.6 | 6043.0 | 6130.0 | 6663.7 | 7396.9 | 7757.7 | 8176.5 | 8727.5 | 9291.3 | 9002.5 | 7082.5 |
| 57.5° | 6475.7 | 6444.4 | 6529.1 | 7191.5 | 8132.4 | 8563.9 | 8989.7 | 9335.4 | 9727.5 | 9256.5 | 7137.0 |
| 60° | 6916.6 | 6853.9 | 6954.9 | 7784.3 | 8999.0 | 9408.5 | 9762.3 | 9855.1 | 10186.9 | 9458.4 | 7043.0 |
| 62.5° | 7268.1 | 7269.3 | 7457.2 | 8415.4 | 9889.9 | 10248.4 | 10436.4 | 10519.9 | 10582.5 | 9414.3 | 6548.8 |
| 65° | 7816.8 | 7835.4 | 8135.9 | 9291.3 | 10921.3 | 11232.2 | 11361.0 | 11089.5 | 10599.9 | 8866.7 | 5806.4 |
| 67.5° | 8383.0 | 8442.1 | 8992.0 | 10497.8 | 12112.7 | 12363.3 | 12197.4 | 11199.7 | 10126.6 | 7617.3 | 4402.6 |
| 70° | 8567.4 | 8664.9 | 9570.9 | 11328.5 | 12827.3 | 12957.3 | 12395.8 | 10685.8 | 8465.3 | 5092.9 | 2215.8 |
| 72.5° | 7850.5 | 8008.2 | 9238.0 | 11025.7 | 12371.4 | 12258.9 | 11090.7 | 8961.9 | 5381.8 | 1933.9 | 676.3 |
| 75° | 5536.0 | 5605.7 | 7677.6 | 9146.3 | 9950.3 | 9631.2 | 8436.3 | 5777.3 | 2213.5 | 542.9 | 232.0 |
| 77.5° | 2858.5 | 2824.9 | 4566.2 | 6068.5 | 7096.4 | 6765.8 | 5524.4 | 2990.8 | 838.8 | 226.2 | 143.9 |
| 80° | 1478.0 | 1502.3 | 1975.7 | 3179.9 | 4331.9 | 3986.1 | 2945.5 | 1386.3 | 446.6 | 125.3 | 110.2 |
| 82.5° | 828.3 | 777.3 | 1135.7 | 1388.7 | 2025.6 | 1588.2 | 1129.9 | 981.5 | 194.9 | 75.4 | 104.4 |
| 85° | 150.8 | 157.8 | 623.0 | 750.6 | 703.0 | 446.6 | 364.3 | 655.5 | 56.8 | 41.8 | 73.1 |
| 87.5° | 2.3 | 2.3 | 120.7 | 215.8 | 136.9 | 62.6 | 114.9 | 94.0 | 11.6 | 16.2 | 12.8 |
| 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: P452578
 CATALOG NUMBER: GALN-SA3C-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 | 2693.8 |
| 2.5° | 2681.0 | 2636.9 | 2554.6 | 2473.4 | 2370.1 | 2285.4 | 2228.6 | 2169.4 | 2109.1 | 2113.7 | 2127.6 |
| 5° | 2634.6 | 2558.0 | 2395.6 | 2223.9 | 2059.2 | 1910.7 | 1764.5 | 1633.4 | 1580.1 | 1531.3 | 1533.7 |
| 7.5° | 2588.2 | 2480.3 | 2242.5 | 1973.3 | 1723.9 | 1471.0 | 1287.7 | 1136.9 | 1056.9 | 996.5 | 979.1 |
| 10° | 2567.3 | 2424.6 | 2102.1 | 1732.0 | 1378.2 | 1102.1 | 866.6 | 743.6 | 648.5 | 618.3 | 626.5 |
| 12.5° | 2576.6 | 2396.8 | 1975.7 | 1513.9 | 1092.8 | 768.0 | 603.3 | 540.6 | 519.7 | 516.2 | 513.9 |
| 15° | 2594.0 | 2377.1 | 1851.5 | 1272.6 | 802.8 | 570.8 | 507.0 | 495.4 | 493.0 | 490.7 | 491.9 |
| 17.5° | 2617.2 | 2359.7 | 1719.3 | 1046.4 | 616.0 | 498.8 | 480.3 | 474.5 | 473.3 | 473.3 | 473.3 |
| 20° | 2640.4 | 2339.9 | 1571.9 | 844.6 | 513.9 | 471.0 | 459.4 | 455.9 | 454.8 | 454.8 | 453.6 |
| 22.5° | 2667.1 | 2322.5 | 1422.3 | 663.6 | 473.3 | 451.3 | 440.8 | 438.5 | 437.4 | 436.2 | 436.2 |
| 25° | 2705.4 | 2300.5 | 1263.4 | 542.9 | 447.8 | 432.7 | 422.3 | 420.0 | 418.8 | 414.2 | 415.3 |
| 27.5° | 2756.4 | 2284.3 | 1099.8 | 468.7 | 424.6 | 409.5 | 402.6 | 399.1 | 396.8 | 393.3 | 394.4 |
| 30° | 2826.0 | 2270.3 | 925.8 | 428.1 | 397.9 | 385.2 | 378.2 | 375.9 | 373.6 | 370.1 | 370.1 |
| 32.5° | 2946.7 | 2276.1 | 742.5 | 395.6 | 373.6 | 358.5 | 351.5 | 349.2 | 346.9 | 343.4 | 343.4 |
| 35° | 3127.7 | 2309.8 | 594.0 | 367.8 | 344.6 | 329.5 | 322.5 | 322.5 | 319.0 | 314.4 | 313.2 |
| 37.5° | 3423.5 | 2395.6 | 476.8 | 341.1 | 316.7 | 302.8 | 294.7 | 292.3 | 288.9 | 281.9 | 280.7 |
| 40° | 3772.7 | 2529.0 | 401.4 | 314.4 | 291.2 | 277.3 | 270.3 | 263.3 | 254.1 | 247.1 | 245.9 |
| 42.5° | 4211.2 | 2665.9 | 348.0 | 287.7 | 266.8 | 254.1 | 245.9 | 234.3 | 220.4 | 211.1 | 210.0 |
| 45° | 4668.3 | 2791.2 | 312.1 | 263.3 | 243.6 | 233.2 | 223.9 | 205.3 | 187.9 | 176.3 | 175.2 |
| 47.5° | 5009.4 | 2814.4 | 283.1 | 240.1 | 223.9 | 213.5 | 200.7 | 177.5 | 154.3 | 143.9 | 140.4 |
| 50° | 5170.6 | 2701.9 | 252.9 | 216.9 | 204.2 | 192.6 | 176.3 | 149.7 | 124.1 | 111.4 | 109.1 |
| 52.5° | 5227.5 | 2507.0 | 228.5 | 196.1 | 184.5 | 170.5 | 150.8 | 120.7 | 97.4 | 84.7 | 83.5 |
| 55° | 5204.3 | 2261.1 | 206.5 | 176.3 | 161.3 | 145.0 | 125.3 | 96.3 | 71.9 | 61.5 | 59.2 |
| 57.5° | 5082.4 | 1947.8 | 184.5 | 156.6 | 138.1 | 121.8 | 99.8 | 71.9 | 48.7 | 39.4 | 38.3 |
| 60° | 4754.1 | 1520.9 | 162.4 | 134.6 | 117.2 | 99.8 | 78.9 | 51.0 | 30.2 | 22.0 | 22.0 |
| 62.5° | 4199.6 | 1128.8 | 141.5 | 112.5 | 98.6 | 80.0 | 55.7 | 32.5 | 16.2 | 11.6 | 10.4 |
| 65° | 3509.3 | 833.0 | 118.3 | 95.1 | 82.4 | 62.6 | 39.4 | 19.7 | 8.1 | 3.5 | 2.3 |
| 67.5° | 2449.0 | 513.9 | 98.6 | 77.7 | 67.3 | 45.2 | 24.4 | 8.1 | 3.5 | 0.0 | 0.0 |
| 70° | 1112.5 | 244.8 | 75.4 | 59.2 | 51.0 | 32.5 | 12.8 | 4.6 | 2.3 | 0.0 | 0.0 |
| 72.5° | 345.7 | 128.8 | 53.4 | 42.9 | 34.8 | 20.9 | 7.0 | 3.5 | 2.3 | 0.0 | 0.0 |
| 75° | 160.1 | 82.4 | 33.6 | 23.2 | 19.7 | 10.4 | 4.6 | 2.3 | 1.2 | 0.0 | 0.0 |
| 77.5° | 119.5 | 63.8 | 19.7 | 12.8 | 10.4 | 7.0 | 3.5 | 2.3 | 1.2 | 0.0 | 0.0 |
| 80° | 104.4 | 32.5 | 11.6 | 8.1 | 5.8 | 4.6 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 94.0 | 16.2 | 7.0 | 4.6 | 3.5 | 2.3 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 85° | 51.0 | 9.3 | 4.6 | 3.5 | 2.3 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.3 | 4.6 | 3.5 | 2.3 | 2.3 | 1.2 | 1.2 | 1.2 | 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 |

(END OF REPORT)