

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: P532193

Luminaire Tested: **GALN-SA7C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30169 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

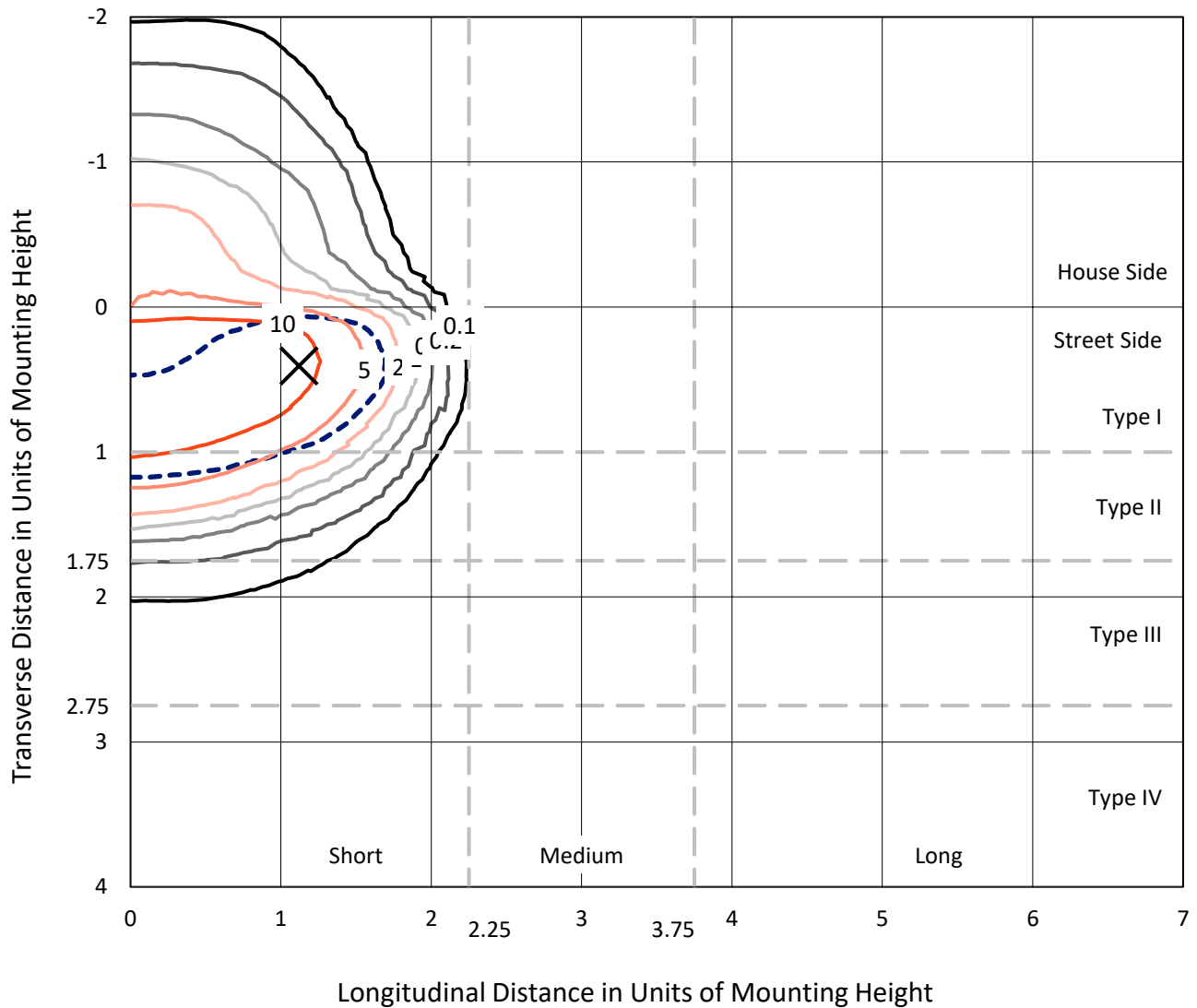
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532193
 CATALOG NUMBER: GALN-SA7C-735-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

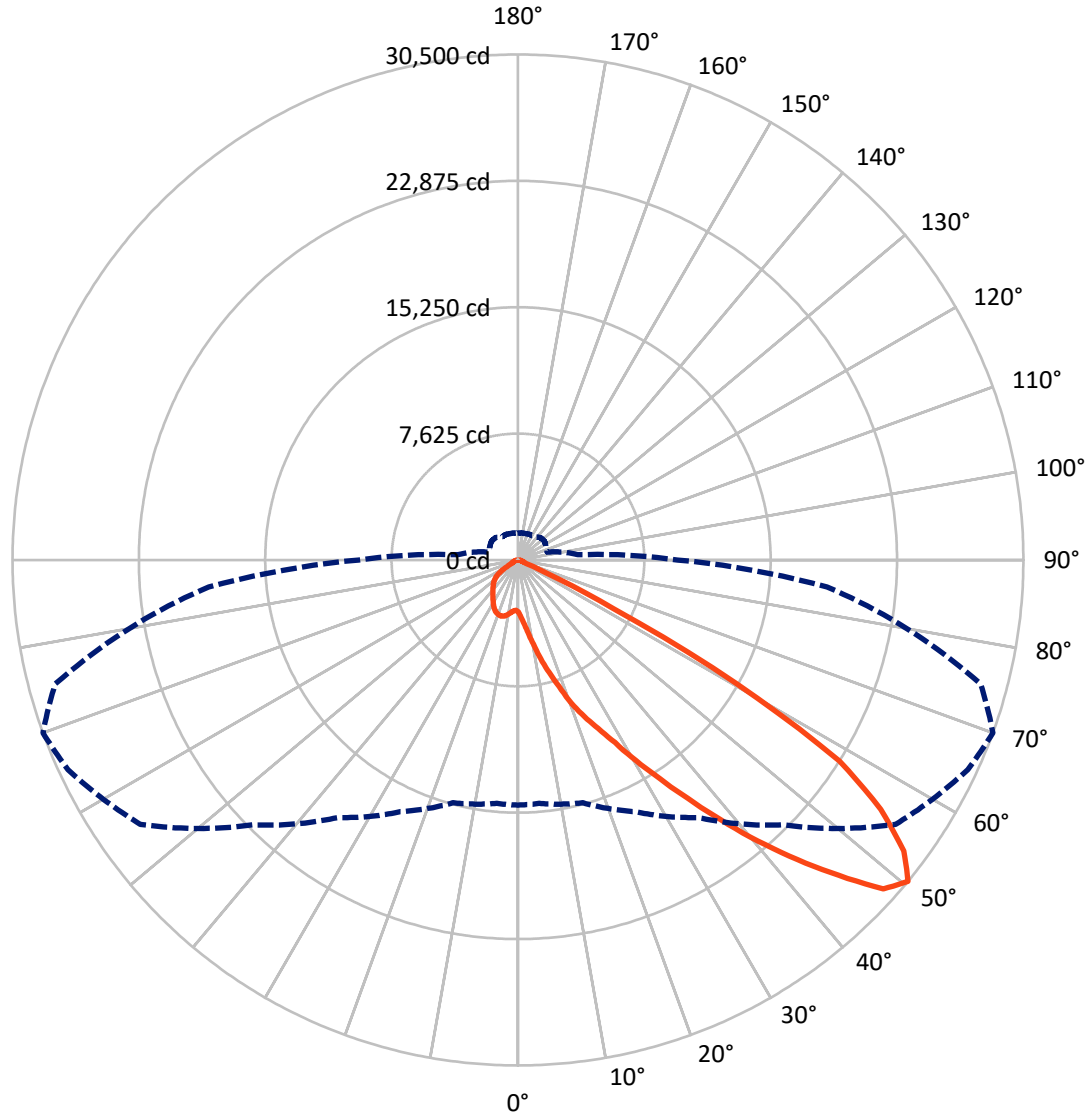
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type I - Short - N/A

REPORT NUMBER: P532193
CATALOG NUMBER: GALN-SA7C-735-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532193
 CATALOG NUMBER: GALN-SA7C-735-U-T2R-GRSBK

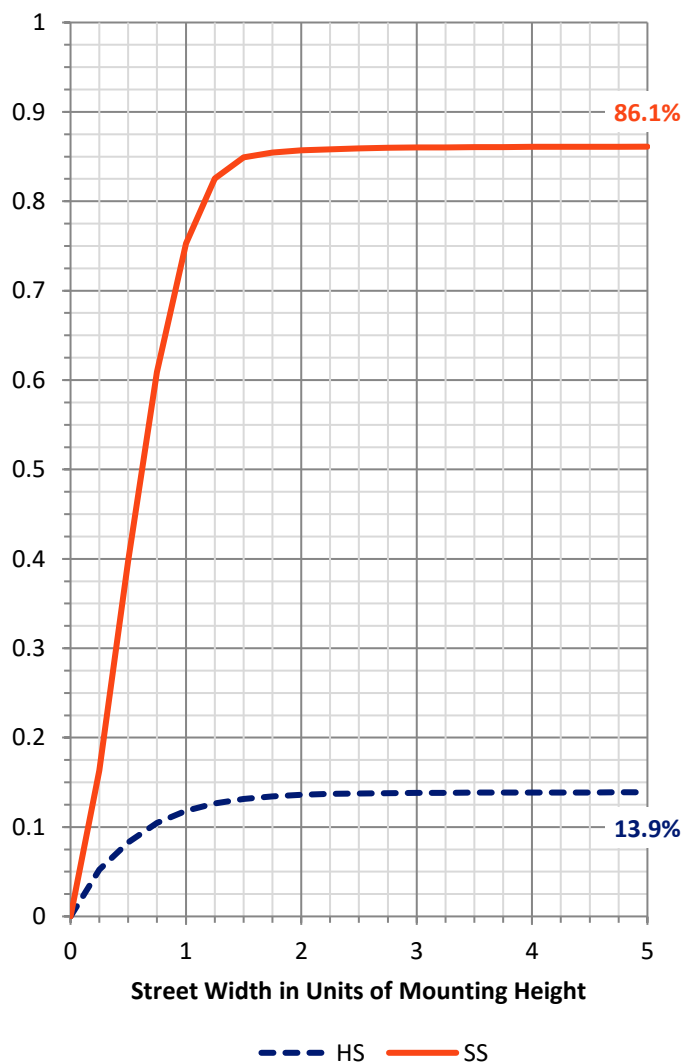
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4213.3 | 0.0 | 4213.3 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 25955.7 | 0.0 | 25955.7 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 30169.0 | 0.0 | 30169.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 406.4 | 1.3 |
| 10°-20° | 1757.7 | 5.8 |
| 20°-30° | 3687.4 | 12.2 |
| 30°-40° | 6355.9 | 21.1 |
| 40°-50° | 9289.1 | 30.8 |
| 50°-60° | 7234.7 | 24.0 |
| 60°-70° | 1225.8 | 4.1 |
| 70°-80° | 168.4 | 0.6 |
| 80°-90° | 43.6 | 0.1 |
| 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° | 30169.0 | 100.0 |
| 0°-180° | 30169.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P532193

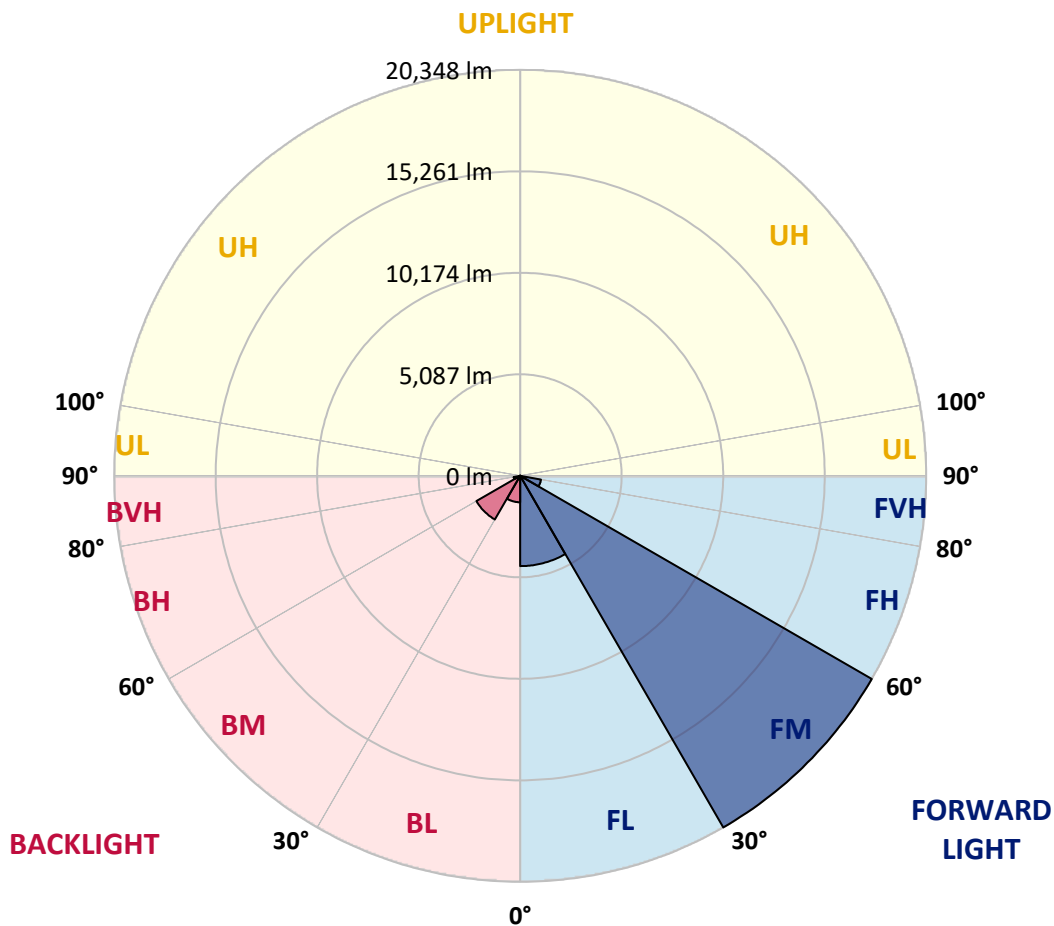
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4525.7 | 15.0 | | | |
| FM (30°-60°) | 20348.5 | 67.4 | | | |
| FH (60°-80°) | 1061.4 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 20.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1325.8 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2531.2 | 8.4 | B3/5000 | | |
| BH (60°-80°) | 332.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P532193

CATALOG NUMBER: GALN-SA7C-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 |
| 2.5° | 4092.1 | 4062.4 | 3997.9 | 3878.9 | 3829.3 | 3710.2 | 3640.8 | 3506.8 | 3422.5 | 3328.3 | 3224.1 |
| 5° | 5763.7 | 5610.0 | 5515.7 | 5381.8 | 4989.9 | 4746.9 | 4345.1 | 4002.9 | 3844.1 | 3670.5 | 3432.4 |
| 7.5° | 7489.9 | 7390.7 | 7261.7 | 6974.0 | 6706.2 | 6200.2 | 5510.8 | 4756.8 | 4434.4 | 4136.8 | 3665.6 |
| 10° | 8918.4 | 8640.6 | 8625.8 | 8412.5 | 8119.8 | 7514.7 | 6686.3 | 5748.9 | 5173.5 | 4737.0 | 3997.9 |
| 12.5° | 9915.4 | 9662.4 | 9776.5 | 9751.7 | 9478.9 | 8923.4 | 7966.1 | 6726.0 | 6125.8 | 5446.3 | 4340.2 |
| 15° | 10823.1 | 10719.0 | 10684.2 | 10654.5 | 10545.3 | 10133.7 | 9275.5 | 7916.4 | 7048.4 | 6230.0 | 4727.1 |
| 17.5° | 11711.0 | 11443.1 | 11572.1 | 11596.9 | 11587.0 | 11215.0 | 10411.4 | 9047.4 | 8025.6 | 7058.3 | 5133.8 |
| 20° | 12499.7 | 12524.5 | 12350.9 | 12316.1 | 12286.4 | 12271.5 | 11487.8 | 10168.4 | 9225.9 | 7926.4 | 5664.5 |
| 22.5° | 13511.5 | 13337.9 | 13491.7 | 13392.5 | 13199.0 | 13080.0 | 12479.8 | 11160.4 | 10267.6 | 8973.0 | 6205.2 |
| 25° | 14706.9 | 14845.8 | 14483.7 | 14444.0 | 14230.8 | 13819.1 | 13278.4 | 12271.5 | 11269.5 | 9945.2 | 6790.5 |
| 27.5° | 16180.1 | 15937.1 | 15842.8 | 15624.6 | 15237.7 | 15064.1 | 14429.2 | 13417.3 | 12479.8 | 10967.0 | 7355.9 |
| 30° | 17445.0 | 17380.5 | 16909.3 | 16651.3 | 16314.0 | 16309.1 | 15421.2 | 14969.8 | 14057.2 | 12569.1 | 8134.7 |
| 32.5° | 18476.7 | 18193.9 | 18020.3 | 17841.8 | 17569.0 | 17643.4 | 16894.4 | 16656.3 | 15738.7 | 14057.2 | 9052.3 |
| 35° | 19166.1 | 18962.8 | 18858.6 | 18585.8 | 18506.4 | 18838.8 | 18526.3 | 18427.1 | 17673.1 | 16150.4 | 10128.7 |
| 37.5° | 19384.4 | 19448.9 | 19429.0 | 19086.8 | 19255.4 | 20153.2 | 20555.0 | 20297.1 | 19900.2 | 18357.6 | 11294.3 |
| 40° | 19577.8 | 19622.5 | 19523.3 | 19925.0 | 20406.2 | 21428.0 | 22881.3 | 22454.7 | 22305.9 | 20594.7 | 12916.3 |
| 42.5° | 19687.0 | 19652.2 | 19652.2 | 20346.7 | 21075.8 | 23129.3 | 25128.3 | 24845.5 | 24731.5 | 22975.6 | 14791.3 |
| 45° | 19215.7 | 18878.5 | 19240.5 | 20183.0 | 21651.2 | 23967.6 | 26923.9 | 27315.7 | 27152.0 | 25807.8 | 16983.7 |
| 47.5° | 17454.9 | 17663.2 | 17866.6 | 19126.5 | 20951.8 | 23709.7 | 28025.0 | 29359.3 | 29661.9 | 28188.7 | 18422.1 |
| 50° | 14791.3 | 14746.6 | 15168.2 | 16755.5 | 18972.7 | 22598.6 | 27811.7 | 29949.6 | 30500.2 | 28903.0 | 18724.7 |
| 52.5° | 10758.6 | 11086.0 | 11542.3 | 13119.7 | 15748.6 | 19721.7 | 25058.8 | 28426.8 | 29160.9 | 28025.0 | 18526.3 |
| 55° | 6264.7 | 5902.6 | 6929.4 | 8263.7 | 10743.8 | 14875.6 | 21184.9 | 25197.7 | 26556.8 | 26427.8 | 17524.3 |
| 57.5° | 2509.9 | 2430.5 | 2782.7 | 3749.9 | 5605.0 | 9221.0 | 15406.3 | 20703.8 | 22881.3 | 24205.7 | 15401.4 |
| 60° | 1101.2 | 1076.4 | 1264.8 | 1527.7 | 2291.6 | 4250.9 | 8427.3 | 12876.6 | 15148.4 | 16914.2 | 10599.9 |
| 62.5° | 793.6 | 783.7 | 878.0 | 972.2 | 1210.3 | 1850.1 | 3541.6 | 5188.3 | 6468.1 | 7812.3 | 4746.9 |
| 65° | 639.9 | 664.7 | 729.1 | 778.7 | 892.8 | 1026.8 | 1250.0 | 1443.4 | 1770.8 | 1835.3 | 1046.6 |
| 67.5° | 520.8 | 540.7 | 600.2 | 654.7 | 674.6 | 555.5 | 575.4 | 505.9 | 505.9 | 451.4 | 362.1 |
| 70° | 381.9 | 386.9 | 456.3 | 520.8 | 416.7 | 223.2 | 391.9 | 391.9 | 352.2 | 337.3 | 307.5 |
| 72.5° | 282.7 | 287.7 | 342.3 | 322.4 | 163.7 | 138.9 | 287.7 | 317.5 | 287.7 | 272.8 | 248.0 |
| 75° | 208.3 | 213.3 | 178.6 | 74.4 | 69.4 | 89.3 | 168.6 | 218.2 | 208.3 | 203.4 | 188.5 |
| 77.5° | 39.7 | 29.8 | 24.8 | 34.7 | 49.6 | 74.4 | 109.1 | 133.9 | 138.9 | 148.8 | 138.9 |
| 80° | 5.0 | 5.0 | 14.9 | 29.8 | 54.6 | 79.4 | 114.1 | 129.0 | 133.9 | 138.9 | 129.0 |
| 82.5° | 0.0 | 5.0 | 14.9 | 29.8 | 54.6 | 74.4 | 99.2 | 114.1 | 124.0 | 129.0 | 124.0 |
| 85° | 0.0 | 5.0 | 9.9 | 24.8 | 44.6 | 54.6 | 49.6 | 34.7 | 29.8 | 34.7 | 24.8 |
| 87.5° | 0.0 | 0.0 | 5.0 | 5.0 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 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: P532193

CATALOG NUMBER: GALN-SA7C-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 | 3124.9 |
| 2.5° | 3164.6 | 3144.8 | 3075.3 | 3000.9 | 2936.4 | 2966.2 | 2936.4 | 2911.6 | 2921.5 | 2911.6 | 2901.7 |
| 5° | 3338.2 | 3248.9 | 3100.1 | 3035.6 | 2981.1 | 2976.1 | 2961.2 | 2956.3 | 2961.2 | 2961.2 | 2916.6 |
| 7.5° | 3501.9 | 3358.0 | 3199.3 | 3129.9 | 3065.4 | 3070.4 | 3035.6 | 3035.6 | 3030.7 | 3005.9 | 2995.9 |
| 10° | 3749.9 | 3556.5 | 3353.1 | 3229.1 | 3149.7 | 3134.8 | 3100.1 | 3065.4 | 3065.4 | 3065.4 | 3015.8 |
| 12.5° | 4022.7 | 3779.7 | 3501.9 | 3358.0 | 3263.8 | 3189.4 | 3134.8 | 3124.9 | 3070.4 | 3060.4 | 3035.6 |
| 15° | 4260.8 | 3953.3 | 3601.1 | 3402.7 | 3283.6 | 3184.4 | 3100.1 | 3045.6 | 3020.8 | 3005.9 | 2986.0 |
| 17.5° | 4493.9 | 4102.1 | 3655.7 | 3402.7 | 3273.7 | 3159.6 | 3070.4 | 3020.8 | 2961.2 | 2971.1 | 2931.5 |
| 20° | 4806.4 | 4260.8 | 3670.5 | 3338.2 | 3179.5 | 3070.4 | 2951.3 | 2926.5 | 2891.8 | 2862.0 | 2871.9 |
| 22.5° | 5109.0 | 4374.9 | 3625.9 | 3258.8 | 3030.7 | 2901.7 | 2842.2 | 2812.4 | 2797.5 | 2772.7 | 2738.0 |
| 25° | 5381.8 | 4498.9 | 3556.5 | 3115.0 | 2871.9 | 2777.7 | 2723.1 | 2718.2 | 2683.5 | 2683.5 | 2619.0 |
| 27.5° | 5659.6 | 4543.5 | 3437.4 | 2946.3 | 2733.1 | 2678.5 | 2653.7 | 2643.8 | 2628.9 | 2594.2 | 2549.5 |
| 30° | 5977.0 | 4558.4 | 3263.8 | 2772.7 | 2609.1 | 2549.5 | 2584.3 | 2609.1 | 2544.6 | 2480.1 | 2499.9 |
| 32.5° | 6239.9 | 4523.7 | 3055.5 | 2609.1 | 2519.8 | 2490.0 | 2559.5 | 2584.3 | 2509.9 | 2440.4 | 2405.7 |
| 35° | 6557.4 | 4439.4 | 2852.1 | 2480.1 | 2430.5 | 2490.0 | 2549.5 | 2549.5 | 2400.7 | 2316.4 | 2296.6 |
| 37.5° | 7038.5 | 4345.1 | 2663.6 | 2371.0 | 2336.2 | 2460.3 | 2539.6 | 2485.1 | 2251.9 | 2147.8 | 2123.0 |
| 40° | 7554.4 | 4285.6 | 2480.1 | 2261.8 | 2286.6 | 2410.6 | 2455.3 | 2286.6 | 2048.6 | 1984.1 | 1964.2 |
| 42.5° | 8303.3 | 4166.6 | 2316.4 | 2167.6 | 2242.0 | 2341.2 | 2341.2 | 2038.6 | 1949.4 | 1914.6 | 1909.7 |
| 45° | 9235.9 | 4082.2 | 2172.6 | 2088.2 | 2177.5 | 2202.3 | 2123.0 | 1909.7 | 1845.2 | 1835.3 | 1840.2 |
| 47.5° | 9692.2 | 3918.5 | 2023.8 | 1994.0 | 2058.5 | 2063.4 | 1855.1 | 1805.5 | 1750.9 | 1736.1 | 1726.1 |
| 50° | 9622.8 | 3625.9 | 1830.3 | 1870.0 | 1959.3 | 1909.7 | 1691.4 | 1701.3 | 1651.7 | 1646.8 | 1622.0 |
| 52.5° | 9136.7 | 3164.6 | 1636.9 | 1731.1 | 1830.3 | 1686.5 | 1557.5 | 1547.6 | 1547.6 | 1483.1 | 1458.3 |
| 55° | 8100.0 | 2549.5 | 1403.7 | 1522.8 | 1641.8 | 1418.6 | 1383.9 | 1374.0 | 1349.2 | 1289.6 | 1274.8 |
| 57.5° | 6413.5 | 1870.0 | 1056.5 | 1185.5 | 1393.8 | 1205.3 | 1200.4 | 1155.7 | 1091.2 | 1046.6 | 1046.6 |
| 60° | 3814.4 | 1076.4 | 664.7 | 724.2 | 922.6 | 977.2 | 1086.3 | 1066.4 | 957.3 | 887.9 | 868.0 |
| 62.5° | 1741.0 | 555.5 | 421.6 | 431.5 | 496.0 | 634.9 | 853.2 | 987.1 | 833.3 | 714.3 | 704.3 |
| 65° | 585.3 | 411.7 | 347.2 | 332.3 | 342.3 | 381.9 | 510.9 | 699.4 | 664.7 | 550.6 | 530.7 |
| 67.5° | 357.1 | 367.1 | 327.4 | 302.6 | 302.6 | 297.6 | 292.7 | 317.5 | 391.9 | 381.9 | 386.9 |
| 70° | 307.5 | 337.3 | 302.6 | 272.8 | 262.9 | 248.0 | 208.3 | 173.6 | 148.8 | 173.6 | 183.5 |
| 72.5° | 248.0 | 267.8 | 257.9 | 233.1 | 208.3 | 188.5 | 148.8 | 114.1 | 84.3 | 74.4 | 74.4 |
| 75° | 183.5 | 198.4 | 208.3 | 178.6 | 158.7 | 133.9 | 109.1 | 74.4 | 44.6 | 29.8 | 29.8 |
| 77.5° | 133.9 | 148.8 | 153.8 | 138.9 | 119.0 | 94.2 | 69.4 | 49.6 | 24.8 | 9.9 | 9.9 |
| 80° | 114.1 | 133.9 | 148.8 | 138.9 | 124.0 | 89.3 | 64.5 | 34.7 | 19.8 | 5.0 | 5.0 |
| 82.5° | 109.1 | 133.9 | 148.8 | 133.9 | 119.0 | 84.3 | 64.5 | 39.7 | 14.9 | 5.0 | 5.0 |
| 85° | 24.8 | 34.7 | 44.6 | 54.6 | 64.5 | 64.5 | 49.6 | 29.8 | 14.9 | 5.0 | 5.0 |
| 87.5° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 5.0 | 5.0 | 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)