

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: P459277

Luminaire Tested: **GALN-SA7C-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459277
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-SA7C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 37522 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

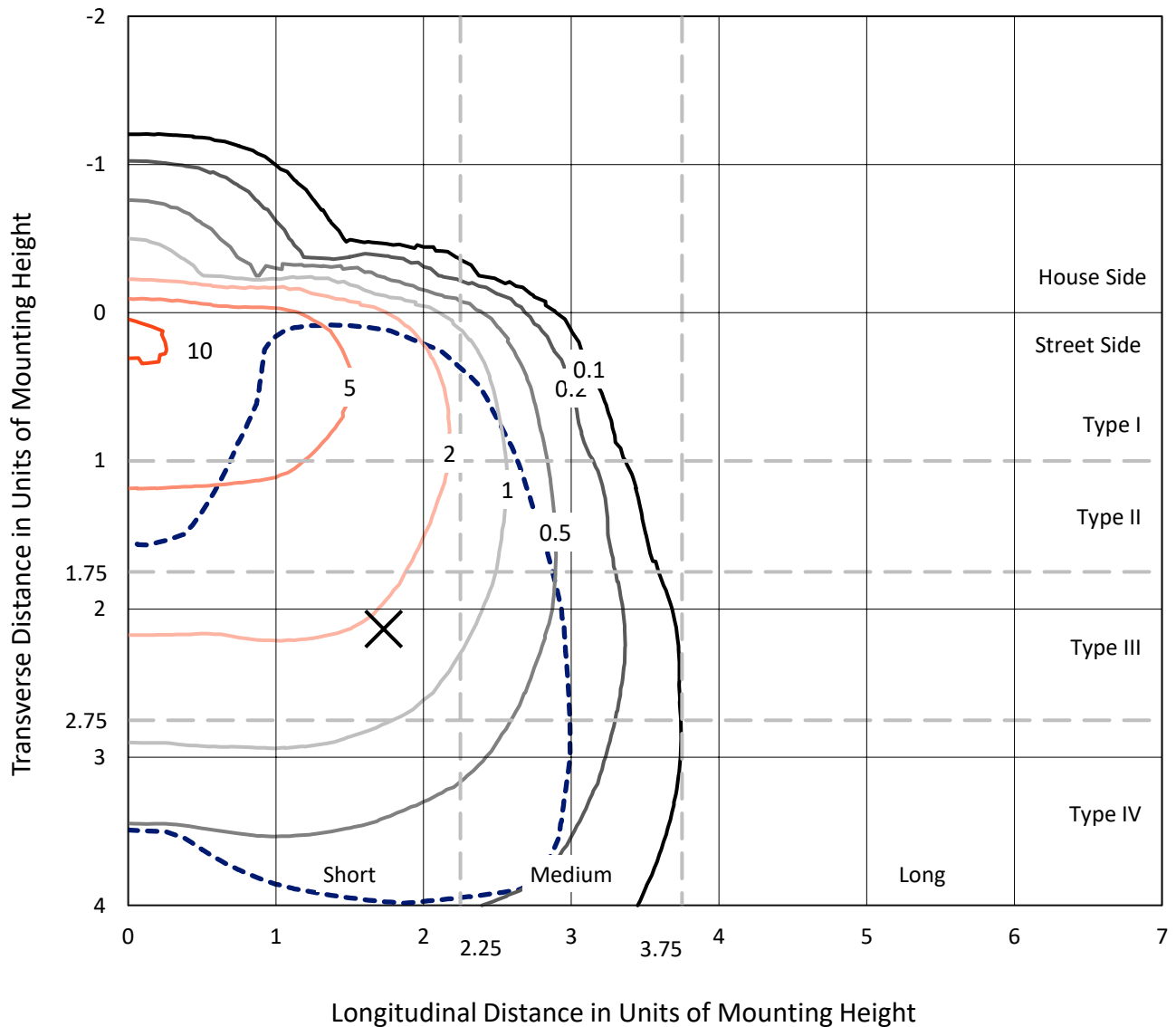
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

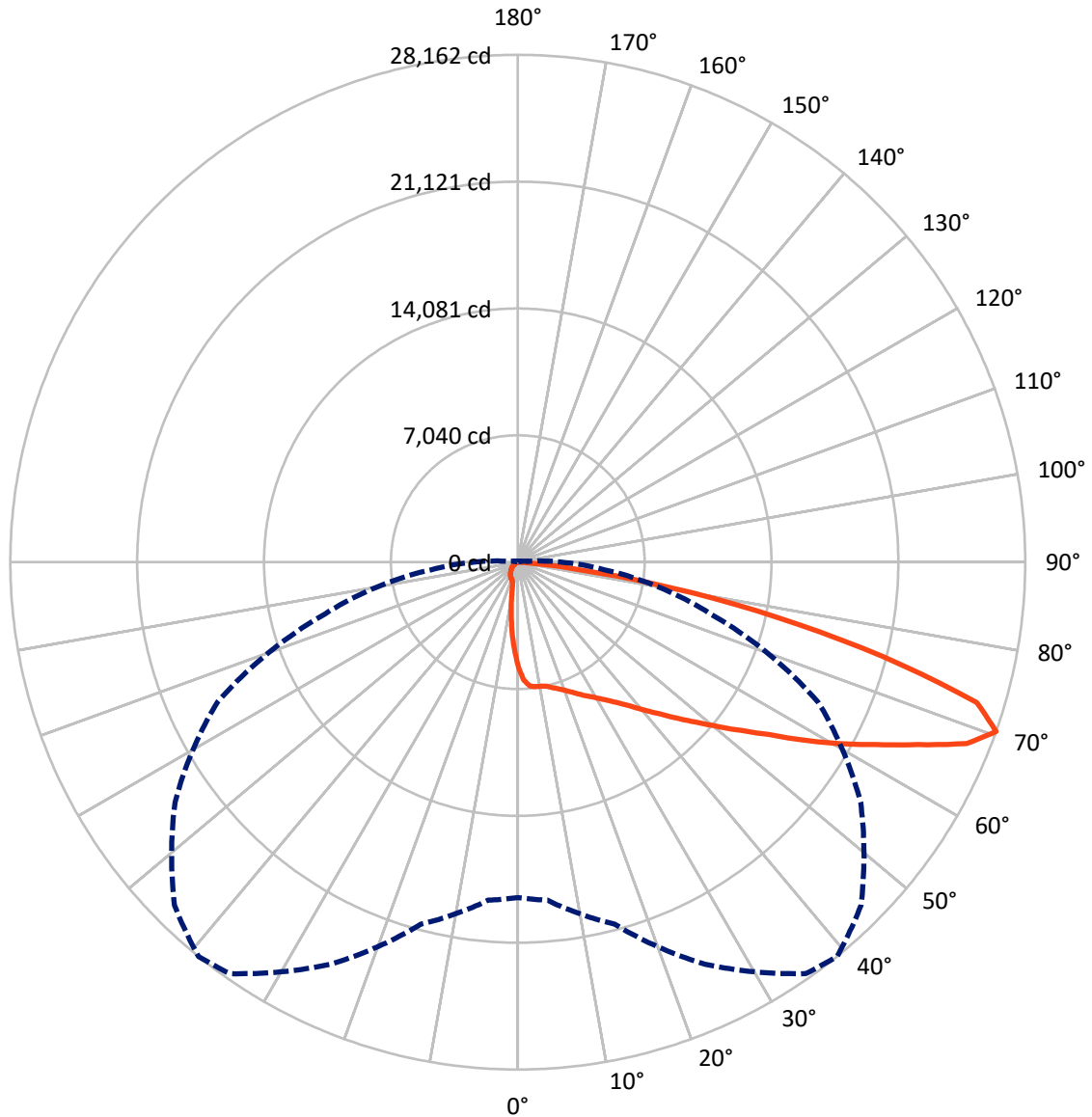
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2446.6 | 0.0 | 2446.6 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 35075.4 | 0.0 | 35075.4 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 37522.0 | 0.0 | 37522.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 499.4 | 1.3 |
| 10°-20° | 1297.7 | 3.5 |
| 20°-30° | 2174.0 | 5.8 |
| 30°-40° | 3371.6 | 9.0 |
| 40°-50° | 5343.0 | 14.2 |
| 50°-60° | 7832.1 | 20.9 |
| 60°-70° | 10038.9 | 26.8 |
| 70°-80° | 6308.1 | 16.8 |
| 80°-90° | 657.2 | 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° | 37522.0 | 100.0 |
| 0°-180° | 37522.0 | 100.0 |

Coefficient of Utilization

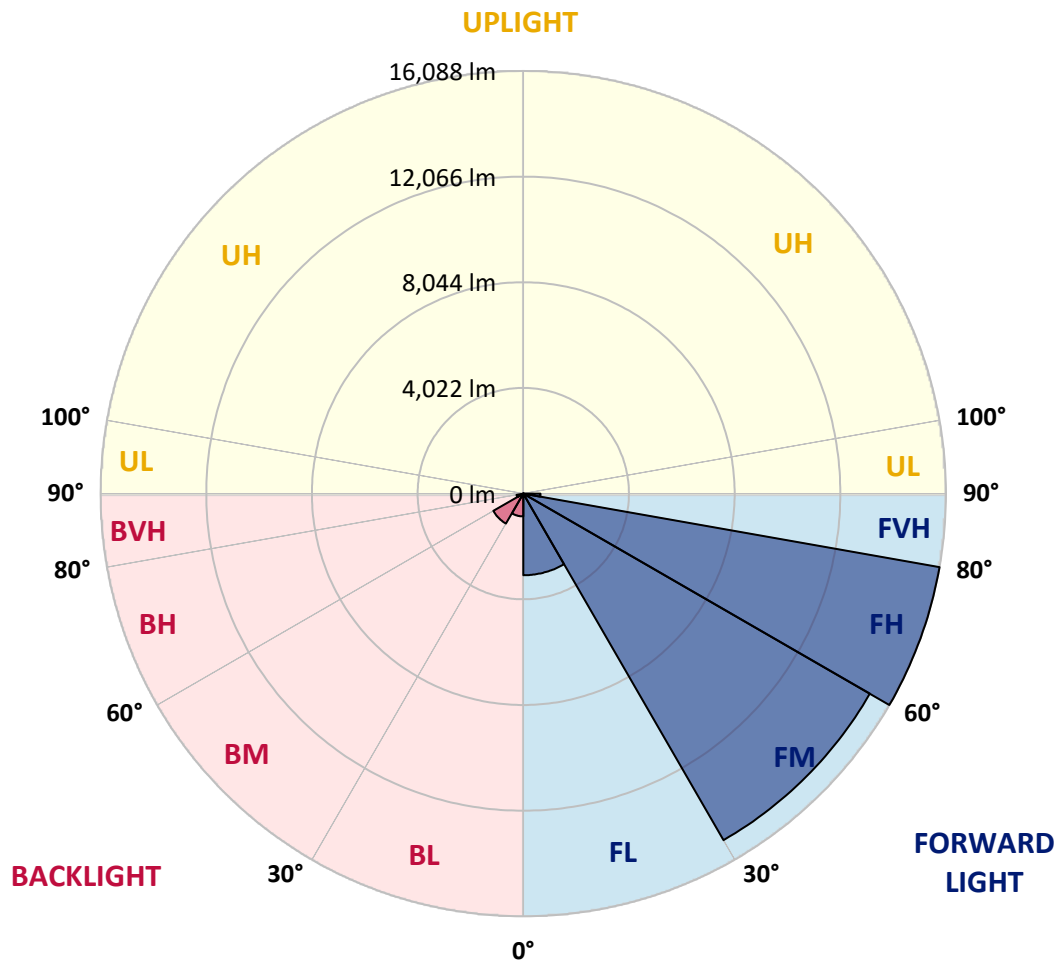


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3104.8 | 8.3 | | | |
| FM (30°-60°) | 15230.1 | 40.6 | | | |
| FH (60°-80°) | 16088.2 | 42.9 | | | G5 |
| FVH (80°-90°) | 652.3 | 1.7 | | | G4/750 |
| BL (0°-30°) | 866.3 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 1316.7 | 3.5 | B2/2500 | | |
| BH (60°-80°) | 258.7 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 |
| 2.5° | 6764.9 | 6742.3 | 6712.0 | 6676.7 | 6575.8 | 6558.2 | 6497.7 | 6369.1 | 6215.3 | 6089.2 | 5915.2 |
| 5° | 7085.2 | 7097.8 | 7075.1 | 7012.0 | 6938.9 | 6896.1 | 6820.4 | 6621.2 | 6422.0 | 6167.4 | 5882.5 |
| 7.5° | 7158.3 | 7183.5 | 7155.8 | 7095.3 | 7024.7 | 6979.3 | 6918.8 | 6747.3 | 6515.3 | 6225.4 | 5834.5 |
| 10° | 7150.7 | 7181.0 | 7163.3 | 7107.9 | 7049.9 | 7007.0 | 6941.4 | 6805.3 | 6618.7 | 6313.6 | 5849.7 |
| 12.5° | 7138.1 | 7178.5 | 7175.9 | 7148.2 | 7100.3 | 7067.5 | 7027.2 | 6906.1 | 6732.2 | 6442.2 | 5932.9 |
| 15° | 7102.8 | 7153.2 | 7198.6 | 7221.3 | 7223.8 | 7223.8 | 7173.4 | 7044.8 | 6878.4 | 6611.1 | 6041.3 |
| 17.5° | 7117.9 | 7175.9 | 7289.4 | 7355.0 | 7400.3 | 7395.3 | 7342.4 | 7203.7 | 7019.6 | 6785.1 | 6154.8 |
| 20° | 7211.2 | 7289.4 | 7448.3 | 7579.4 | 7624.8 | 7609.6 | 7539.0 | 7377.7 | 7168.4 | 6933.9 | 6265.7 |
| 22.5° | 7440.7 | 7511.3 | 7710.5 | 7864.3 | 7897.1 | 7856.7 | 7755.9 | 7536.5 | 7347.4 | 7095.3 | 6399.3 |
| 25° | 7783.6 | 7866.8 | 8050.9 | 8166.9 | 8166.9 | 8144.2 | 8003.0 | 7745.8 | 7549.1 | 7319.7 | 6573.3 |
| 27.5° | 8199.6 | 8270.2 | 8451.8 | 8555.2 | 8494.6 | 8429.1 | 8287.9 | 7977.7 | 7788.6 | 7602.1 | 6782.6 |
| 30° | 8620.7 | 8666.1 | 8857.7 | 8903.1 | 8840.1 | 8756.9 | 8605.6 | 8295.4 | 8129.0 | 7985.3 | 7085.2 |
| 32.5° | 9019.1 | 9117.4 | 9276.3 | 9266.2 | 9180.5 | 9140.1 | 9001.4 | 8671.1 | 8577.8 | 8562.7 | 7508.8 |
| 35° | 9417.5 | 9493.1 | 9634.3 | 9669.6 | 9594.0 | 9586.4 | 9485.6 | 9241.0 | 9243.5 | 9341.8 | 8169.4 |
| 37.5° | 9760.4 | 9828.5 | 9994.9 | 10073.0 | 10088.2 | 10126.0 | 10085.6 | 9924.3 | 10153.7 | 10423.5 | 9044.3 |
| 40° | 10047.8 | 10143.6 | 10355.4 | 10491.6 | 10647.9 | 10786.6 | 10794.2 | 10829.5 | 11290.9 | 11754.8 | 10186.5 |
| 42.5° | 10272.2 | 10405.9 | 10713.5 | 10965.6 | 11323.7 | 11500.2 | 11641.4 | 11835.5 | 12612.1 | 13305.5 | 11532.9 |
| 45° | 10564.7 | 10718.5 | 11101.8 | 11497.6 | 12057.4 | 12347.4 | 12544.0 | 13063.4 | 14165.3 | 15110.8 | 12914.7 |
| 47.5° | 11048.8 | 11129.5 | 11520.3 | 12097.7 | 12834.0 | 13247.5 | 13630.8 | 14417.4 | 15831.9 | 16679.1 | 14064.4 |
| 50° | 11671.6 | 11724.6 | 12019.6 | 12821.4 | 13774.5 | 14319.1 | 15017.5 | 15942.9 | 17561.6 | 17980.2 | 14715.0 |
| 52.5° | 12360.0 | 12377.6 | 12599.5 | 13618.1 | 14828.4 | 15514.2 | 16295.9 | 17438.1 | 18971.1 | 18908.1 | 15146.1 |
| 55° | 13159.3 | 13134.0 | 13323.1 | 14483.0 | 16076.5 | 16860.7 | 17770.9 | 18968.6 | 20194.0 | 19566.2 | 15393.2 |
| 57.5° | 14074.5 | 14006.4 | 14190.5 | 15630.2 | 17675.1 | 18613.1 | 19538.4 | 20289.8 | 21142.0 | 20118.3 | 15511.7 |
| 60° | 15032.7 | 14896.5 | 15115.9 | 16918.7 | 19558.6 | 20448.7 | 21217.7 | 21419.4 | 22140.5 | 20557.1 | 15307.5 |
| 62.5° | 15796.6 | 15799.2 | 16207.6 | 18290.3 | 21495.0 | 22274.2 | 22682.6 | 22864.2 | 23000.3 | 20461.3 | 14233.4 |
| 65° | 16989.3 | 17029.6 | 17682.7 | 20194.0 | 23736.6 | 24412.3 | 24692.2 | 24102.2 | 23038.1 | 19271.2 | 12619.7 |
| 67.5° | 18219.7 | 18348.3 | 19543.5 | 22816.3 | 26326.1 | 26870.7 | 26510.1 | 24341.7 | 22009.4 | 16555.6 | 9568.8 |
| 70° | 18620.6 | 18832.4 | 20801.7 | 24621.6 | 27879.3 | 28161.7 | 26941.3 | 23224.7 | 18398.7 | 11069.0 | 4815.9 |
| 72.5° | 17062.4 | 17405.3 | 20078.0 | 23963.5 | 26888.3 | 26643.8 | 24104.7 | 19477.9 | 11696.8 | 4203.2 | 1470.0 |
| 75° | 12032.2 | 12183.5 | 16686.7 | 19878.8 | 21626.2 | 20932.8 | 18335.7 | 12556.6 | 4810.9 | 1180.0 | 504.3 |
| 77.5° | 6212.8 | 6139.6 | 9924.3 | 13189.5 | 15423.5 | 14704.9 | 12007.0 | 6500.2 | 1823.0 | 491.7 | 312.7 |
| 80° | 3212.3 | 3265.2 | 4294.0 | 6911.2 | 9415.0 | 8663.6 | 6401.9 | 3013.1 | 970.7 | 272.3 | 239.5 |
| 82.5° | 1800.3 | 1689.3 | 2468.5 | 3018.1 | 4402.4 | 3451.8 | 2455.9 | 2133.1 | 423.6 | 163.9 | 226.9 |
| 85° | 327.8 | 342.9 | 1354.0 | 1631.4 | 1528.0 | 970.7 | 791.7 | 1424.6 | 123.5 | 90.8 | 158.8 |
| 87.5° | 5.0 | 5.0 | 262.2 | 469.0 | 297.5 | 136.2 | 249.6 | 204.2 | 25.2 | 35.3 | 27.7 |
| 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-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 | 5854.7 |
| 2.5° | 5827.0 | 5731.2 | 5552.1 | 5375.7 | 5151.2 | 4967.2 | 4843.6 | 4715.0 | 4583.9 | 4594.0 | 4624.3 |
| 5° | 5726.1 | 5559.7 | 5206.7 | 4833.5 | 4475.5 | 4152.8 | 3835.1 | 3550.1 | 3434.2 | 3328.3 | 3333.3 |
| 7.5° | 5625.3 | 5390.8 | 4873.9 | 4288.9 | 3746.8 | 3197.2 | 2798.8 | 2471.0 | 2297.0 | 2165.9 | 2128.1 |
| 10° | 5579.9 | 5269.8 | 4568.8 | 3764.5 | 2995.4 | 2395.3 | 1883.5 | 1616.2 | 1409.5 | 1343.9 | 1361.6 |
| 12.5° | 5600.1 | 5209.2 | 4294.0 | 3290.4 | 2375.2 | 1669.2 | 1311.1 | 1175.0 | 1129.6 | 1122.0 | 1117.0 |
| 15° | 5637.9 | 5166.4 | 4024.2 | 2766.0 | 1744.8 | 1240.5 | 1101.9 | 1076.6 | 1071.6 | 1066.6 | 1069.1 |
| 17.5° | 5688.3 | 5128.6 | 3736.7 | 2274.3 | 1338.9 | 1084.2 | 1043.9 | 1031.3 | 1028.7 | 1028.7 | 1028.7 |
| 20° | 5738.7 | 5085.7 | 3416.5 | 1835.6 | 1117.0 | 1023.7 | 998.5 | 990.9 | 988.4 | 988.4 | 985.9 |
| 22.5° | 5796.7 | 5047.9 | 3091.3 | 1442.2 | 1028.7 | 980.8 | 958.1 | 953.1 | 950.6 | 948.1 | 948.1 |
| 25° | 5879.9 | 5000.0 | 2745.8 | 1180.0 | 973.3 | 940.5 | 917.8 | 912.8 | 910.2 | 900.1 | 902.7 |
| 27.5° | 5990.9 | 4964.7 | 2390.3 | 1018.7 | 922.8 | 890.1 | 874.9 | 867.4 | 862.3 | 854.8 | 857.3 |
| 30° | 6142.2 | 4934.4 | 2012.1 | 930.4 | 864.8 | 837.1 | 822.0 | 816.9 | 811.9 | 804.3 | 804.3 |
| 32.5° | 6404.4 | 4947.0 | 1613.7 | 859.8 | 811.9 | 779.1 | 764.0 | 758.9 | 753.9 | 746.3 | 746.3 |
| 35° | 6797.7 | 5020.1 | 1291.0 | 799.3 | 748.9 | 716.1 | 701.0 | 701.0 | 693.4 | 683.3 | 680.8 |
| 37.5° | 7440.7 | 5206.7 | 1036.3 | 741.3 | 688.3 | 658.1 | 640.4 | 635.4 | 627.8 | 612.7 | 610.2 |
| 40° | 8199.6 | 5496.7 | 872.4 | 683.3 | 632.9 | 602.6 | 587.5 | 572.4 | 552.2 | 537.1 | 534.5 |
| 42.5° | 9152.7 | 5794.2 | 756.4 | 625.3 | 579.9 | 552.2 | 534.5 | 509.3 | 479.1 | 458.9 | 456.4 |
| 45° | 10146.2 | 6066.5 | 678.3 | 572.4 | 529.5 | 506.8 | 486.6 | 446.3 | 408.5 | 383.3 | 380.7 |
| 47.5° | 10887.5 | 6116.9 | 615.2 | 521.9 | 486.6 | 463.9 | 436.2 | 385.8 | 335.3 | 312.7 | 305.1 |
| 50° | 11237.9 | 5872.4 | 549.7 | 471.5 | 443.8 | 418.6 | 383.3 | 325.3 | 269.8 | 242.1 | 237.0 |
| 52.5° | 11361.5 | 5448.8 | 496.7 | 426.1 | 400.9 | 370.6 | 327.8 | 262.2 | 211.8 | 184.1 | 181.5 |
| 55° | 11311.1 | 4914.2 | 448.8 | 383.3 | 350.5 | 315.2 | 272.3 | 209.3 | 156.3 | 133.6 | 128.6 |
| 57.5° | 11046.3 | 4233.5 | 400.9 | 340.4 | 300.0 | 264.7 | 216.8 | 156.3 | 105.9 | 85.7 | 83.2 |
| 60° | 10332.7 | 3305.6 | 353.0 | 292.5 | 254.7 | 216.8 | 171.5 | 110.9 | 65.6 | 47.9 | 47.9 |
| 62.5° | 9127.5 | 2453.3 | 307.6 | 244.6 | 214.3 | 174.0 | 121.0 | 70.6 | 35.3 | 25.2 | 22.7 |
| 65° | 7627.3 | 1810.4 | 257.2 | 206.8 | 179.0 | 136.2 | 85.7 | 42.9 | 17.6 | 7.6 | 5.0 |
| 67.5° | 5322.7 | 1117.0 | 214.3 | 168.9 | 146.2 | 98.3 | 52.9 | 17.6 | 7.6 | 0.0 | 0.0 |
| 70° | 2418.0 | 532.0 | 163.9 | 128.6 | 110.9 | 70.6 | 27.7 | 10.1 | 5.0 | 0.0 | 0.0 |
| 72.5° | 751.4 | 279.9 | 116.0 | 93.3 | 75.6 | 45.4 | 15.1 | 7.6 | 5.0 | 0.0 | 0.0 |
| 75° | 348.0 | 179.0 | 73.1 | 50.4 | 42.9 | 22.7 | 10.1 | 5.0 | 2.5 | 0.0 | 0.0 |
| 77.5° | 259.7 | 138.7 | 42.9 | 27.7 | 22.7 | 15.1 | 7.6 | 5.0 | 2.5 | 0.0 | 0.0 |
| 80° | 226.9 | 70.6 | 25.2 | 17.6 | 12.6 | 10.1 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 204.2 | 35.3 | 15.1 | 10.1 | 7.6 | 5.0 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 |
| 85° | 110.9 | 20.2 | 10.1 | 7.6 | 5.0 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.2 | 10.1 | 7.6 | 5.0 | 5.0 | 2.5 | 2.5 | 2.5 | 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)