

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: P949926

Luminaire Tested: **GALN-SB4C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32344 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

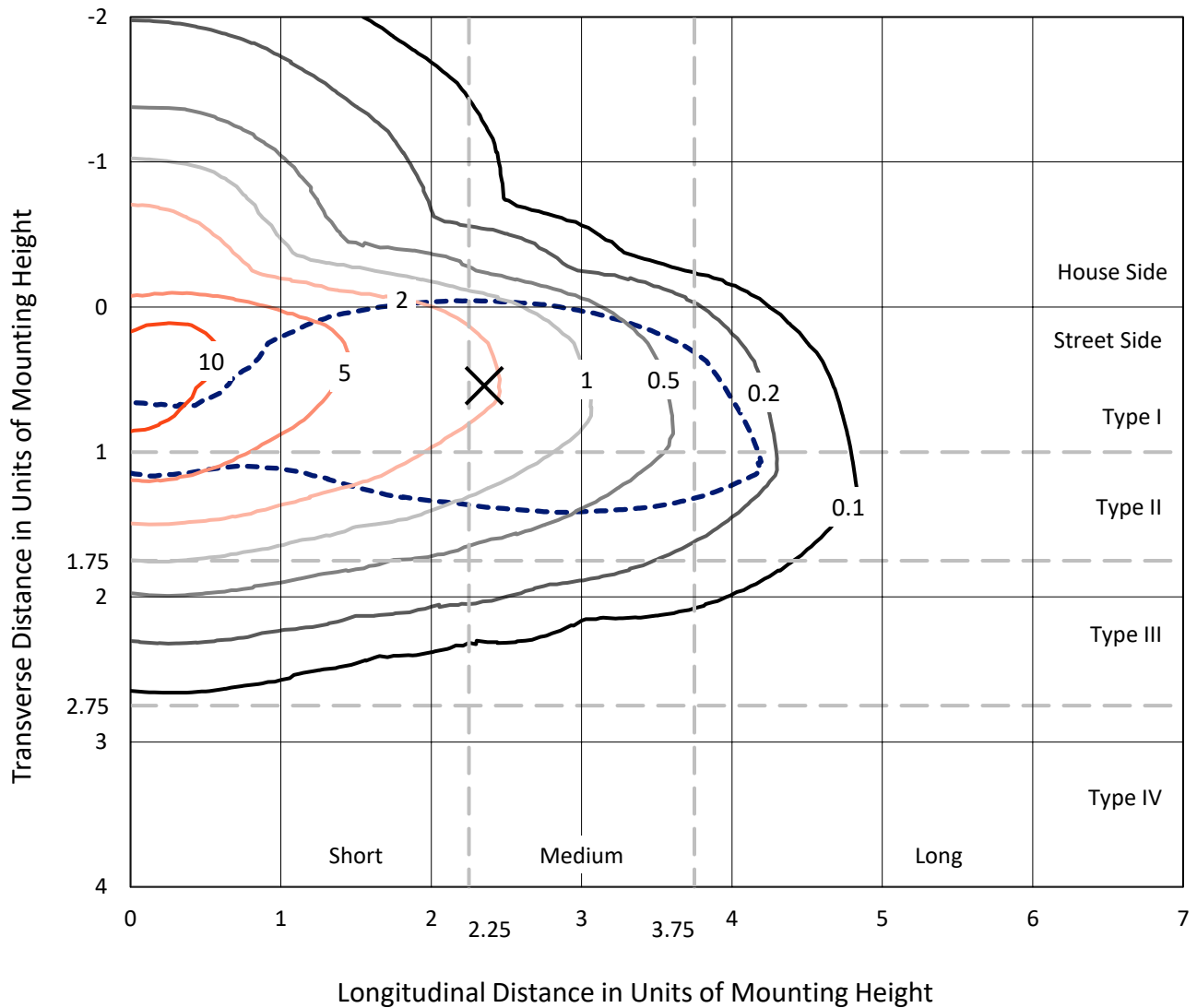
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

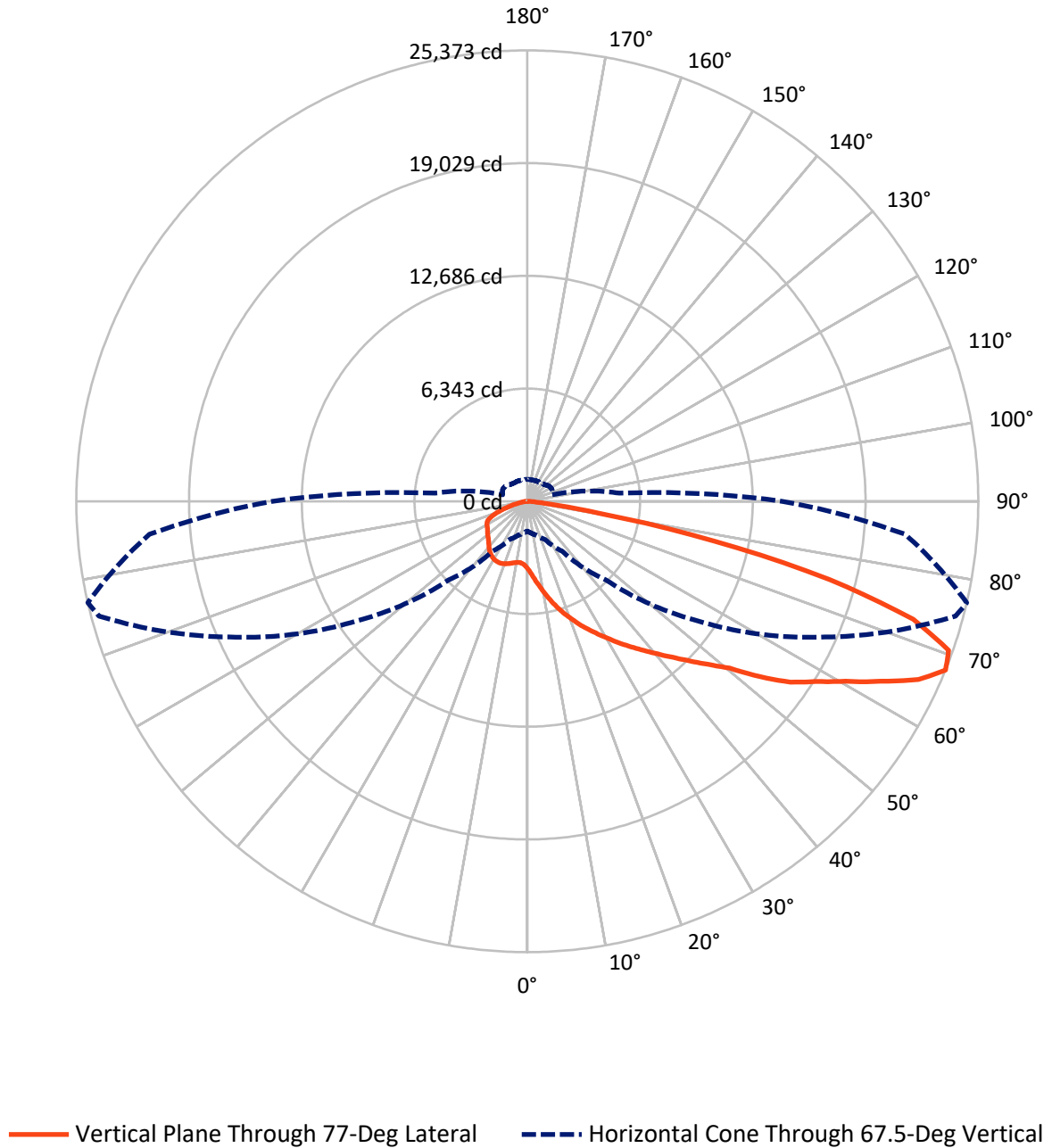
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6118.2 | 0.0 | 6118.2 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 26225.8 | 0.0 | 26225.8 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 32344.0 | 0.0 | 32344.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 406.8 | 1.3 |
| 10°-20° | 1461.4 | 4.5 |
| 20°-30° | 2759.2 | 8.5 |
| 30°-40° | 4445.0 | 13.7 |
| 40°-50° | 6079.9 | 18.8 |
| 50°-60° | 6858.2 | 21.2 |
| 60°-70° | 6401.3 | 19.8 |
| 70°-80° | 3509.0 | 10.8 |
| 80°-90° | 423.3 | 1.3 |
| 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° | 32344.0 | 100.0 |
| 0°-180° | 32344.0 | 100.0 |



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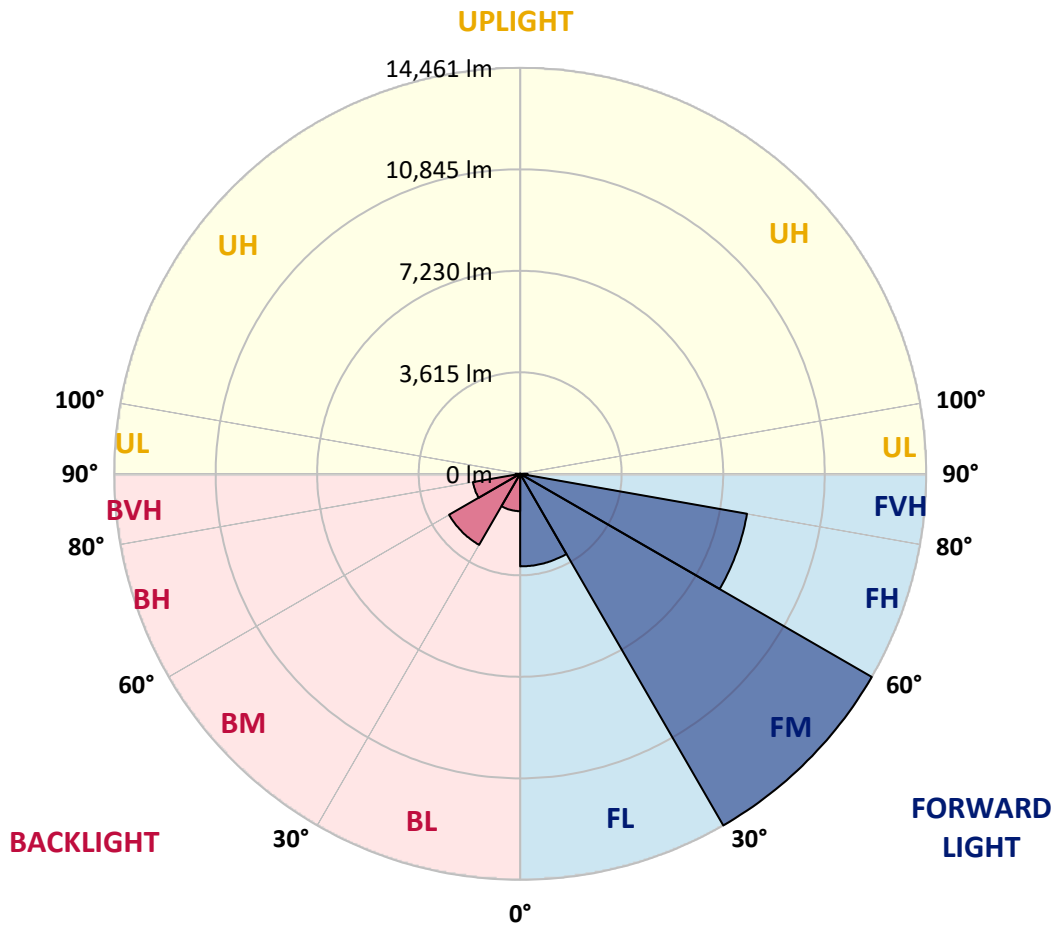
CATALOG NUMBER: GALN-SB4C-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3297.1 | 10.2 | | | |
| FM (30°-60°) | 14460.6 | 44.7 | | | |
| FH (60°-80°) | 8203.4 | 25.4 | | | G4/12000 |
| FVH (80°-90°) | 264.7 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1330.2 | 4.1 | B3/2500 | | |
| BM (30°-60°) | 2922.5 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1706.9 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 158.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 |
| 2.5° | 4751.6 | 4785.0 | 4743.3 | 4743.3 | 4603.0 | 4529.6 | 4389.3 | 4282.5 | 4090.5 | 4057.1 |
| 5° | 5616.5 | 5658.2 | 5599.8 | 5574.7 | 5409.4 | 5257.5 | 5022.1 | 4790.0 | 4447.8 | 4412.7 |
| 7.5° | 6286.0 | 6339.4 | 6287.6 | 6260.9 | 6114.0 | 5943.7 | 5668.2 | 5344.3 | 4861.8 | 4793.4 |
| 10° | 6831.9 | 6840.3 | 6823.6 | 6833.6 | 6718.4 | 6578.1 | 6296.0 | 5918.7 | 5315.9 | 5222.4 |
| 12.5° | 7140.8 | 7179.2 | 7212.6 | 7272.7 | 7252.7 | 7165.8 | 6912.1 | 6461.3 | 5796.8 | 5676.6 |
| 15° | 7286.0 | 7352.8 | 7428.0 | 7566.5 | 7678.4 | 7700.1 | 7506.4 | 7044.0 | 6286.0 | 6140.7 |
| 17.5° | 7337.8 | 7401.2 | 7519.8 | 7720.1 | 7960.6 | 8122.5 | 8035.7 | 7609.9 | 6770.1 | 6603.2 |
| 20° | 7599.9 | 7618.3 | 7690.1 | 7880.4 | 8140.9 | 8409.7 | 8474.8 | 8154.2 | 7249.3 | 7060.7 |
| 22.5° | 8160.9 | 8124.2 | 8144.2 | 8231.0 | 8418.0 | 8678.5 | 8827.1 | 8635.1 | 7741.8 | 7524.8 |
| 25° | 9087.5 | 8980.7 | 8873.8 | 8773.6 | 8868.8 | 9015.7 | 9184.4 | 9115.9 | 8257.7 | 7982.3 |
| 27.5° | 10257.9 | 10127.7 | 9892.3 | 9563.4 | 9448.2 | 9499.9 | 9575.0 | 9561.7 | 8735.2 | 8456.4 |
| 30° | 11409.9 | 11258.0 | 10977.5 | 10501.7 | 10197.8 | 10060.9 | 10004.1 | 9965.7 | 9254.5 | 8957.3 |
| 32.5° | 12329.9 | 12209.6 | 11934.2 | 11401.6 | 10960.8 | 10727.1 | 10538.4 | 10401.5 | 9797.1 | 9499.9 |
| 35° | 13134.6 | 13022.7 | 12707.2 | 12126.2 | 11647.0 | 11398.2 | 11151.1 | 10859.0 | 10361.4 | 10060.9 |
| 37.5° | 13869.2 | 13757.3 | 13324.9 | 12720.5 | 12238.0 | 12066.1 | 11845.7 | 11349.8 | 10927.4 | 10643.6 |
| 40° | 14333.3 | 14308.3 | 13904.3 | 13219.7 | 12718.9 | 12633.7 | 12560.3 | 11919.1 | 11555.2 | 11291.4 |
| 42.5° | 14451.9 | 14507.0 | 14186.4 | 13623.8 | 13146.3 | 13077.8 | 13249.8 | 12563.6 | 12259.7 | 12007.6 |
| 45° | 14166.4 | 14325.0 | 14114.6 | 13732.3 | 13450.1 | 13413.4 | 13860.9 | 13268.2 | 13039.4 | 12809.0 |
| 47.5° | 13443.5 | 13712.3 | 13625.4 | 13572.0 | 13531.9 | 13690.6 | 14398.5 | 14016.1 | 13922.6 | 13722.3 |
| 50° | 11984.2 | 12493.5 | 12645.4 | 12982.7 | 13370.0 | 13905.9 | 14887.6 | 14832.6 | 14954.4 | 14752.4 |
| 52.5° | 9461.5 | 10162.7 | 11044.3 | 11889.1 | 12872.5 | 13834.1 | 15425.3 | 16004.6 | 16518.8 | 16408.6 |
| 55° | 7810.3 | 8125.8 | 8803.7 | 10353.1 | 11907.4 | 13531.9 | 15667.3 | 16951.2 | 18071.5 | 17973.0 |
| 57.5° | 6541.4 | 6823.6 | 7241.0 | 8534.9 | 10448.2 | 12845.8 | 15817.6 | 17528.9 | 19135.1 | 19125.0 |
| 60° | 5180.7 | 5479.6 | 5907.0 | 6823.6 | 8743.6 | 11660.3 | 15784.2 | 18186.7 | 20492.4 | 20575.9 |
| 62.5° | 3644.7 | 3973.6 | 4447.8 | 5302.6 | 7002.2 | 10124.3 | 15103.0 | 18662.6 | 22090.2 | 22317.3 |
| 65° | 2395.8 | 2612.9 | 2970.2 | 3708.1 | 5217.4 | 8149.2 | 13802.4 | 18724.3 | 23799.9 | 24183.9 |
| 67.5° | 1679.6 | 1763.1 | 1973.4 | 2374.1 | 3439.3 | 6249.2 | 11730.5 | 18084.9 | 24940.2 | 25372.6 |
| 70° | 1310.6 | 1352.4 | 1459.2 | 1619.5 | 2160.4 | 4202.3 | 8989.0 | 16422.0 | 24696.4 | 25147.2 |
| 72.5° | 1132.0 | 1172.0 | 1212.1 | 1232.2 | 1449.2 | 2594.5 | 6089.0 | 13730.6 | 22400.8 | 22706.3 |
| 75° | 1026.8 | 1036.8 | 1070.2 | 1063.5 | 1105.3 | 1682.9 | 3514.5 | 10004.1 | 17674.2 | 17569.0 |
| 77.5° | 863.2 | 876.5 | 931.6 | 923.3 | 981.7 | 1150.3 | 1824.9 | 6456.3 | 11458.3 | 10743.7 |
| 80° | 731.3 | 738.0 | 798.1 | 788.0 | 853.2 | 833.1 | 931.6 | 3290.7 | 4860.1 | 4117.2 |
| 82.5° | 253.8 | 313.9 | 609.4 | 627.8 | 651.1 | 504.2 | 537.6 | 1342.3 | 1484.3 | 1137.0 |
| 85° | 123.5 | 131.9 | 310.5 | 440.8 | 439.1 | 253.8 | 262.1 | 479.2 | 467.5 | 367.3 |
| 87.5° | 20.0 | 25.0 | 36.7 | 172.0 | 136.9 | 66.8 | 90.2 | 93.5 | 96.8 | 83.5 |
| 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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 CATALOG NUMBER: GALN-SB4C-740-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3795.0 | 0° | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 | 3795.0 |
| 3930.2 | 2.5° | 3836.7 | 3753.2 | 3577.9 | 3416.0 | 3289.1 | 3167.2 | 3098.7 | 3040.3 | 3006.9 | 3000.2 |
| 4113.8 | 5° | 3940.2 | 3768.2 | 3449.4 | 3180.6 | 3005.2 | 2875.0 | 2806.6 | 2763.2 | 2741.5 | 2728.1 |
| 4360.9 | 7.5° | 4088.8 | 3836.7 | 3382.6 | 3077.0 | 2893.4 | 2799.9 | 2764.8 | 2758.1 | 2756.5 | 2758.1 |
| 4659.8 | 10° | 4294.2 | 3948.6 | 3375.9 | 3052.0 | 2898.4 | 2846.6 | 2845.0 | 2846.6 | 2853.3 | 2855.0 |
| 4985.4 | 12.5° | 4516.2 | 4063.8 | 3402.6 | 3073.7 | 2961.8 | 2933.5 | 2928.4 | 2926.8 | 2931.8 | 2935.1 |
| 5314.3 | 15° | 4758.3 | 4215.7 | 3447.7 | 3120.4 | 3032.0 | 3001.9 | 2996.9 | 2986.9 | 2985.2 | 2983.5 |
| 5659.9 | 17.5° | 5007.1 | 4366.0 | 3497.8 | 3170.5 | 3077.0 | 3035.3 | 3016.9 | 2993.6 | 2975.2 | 2970.2 |
| 6017.2 | 20° | 5259.2 | 4514.5 | 3532.8 | 3195.6 | 3080.4 | 3021.9 | 2985.2 | 2945.1 | 2913.4 | 2895.1 |
| 6377.8 | 22.5° | 5528.0 | 4669.8 | 3554.5 | 3188.9 | 3050.3 | 2970.2 | 2903.4 | 2856.7 | 2808.2 | 2776.5 |
| 6741.8 | 25° | 5790.1 | 4805.1 | 3552.9 | 3153.8 | 2991.9 | 2890.0 | 2804.9 | 2744.8 | 2678.0 | 2644.6 |
| 7117.4 | 27.5° | 6042.2 | 4926.9 | 3511.1 | 3092.1 | 2908.4 | 2794.9 | 2693.0 | 2621.2 | 2556.1 | 2524.4 |
| 7496.4 | 30° | 6302.7 | 5028.8 | 3446.0 | 3001.9 | 2809.9 | 2684.7 | 2572.8 | 2511.0 | 2452.6 | 2422.6 |
| 7897.1 | 32.5° | 6561.5 | 5122.3 | 3354.2 | 2890.0 | 2696.4 | 2576.2 | 2466.0 | 2409.2 | 2374.1 | 2374.1 |
| 8327.9 | 35° | 6835.3 | 5187.4 | 3232.3 | 2759.8 | 2576.2 | 2461.0 | 2374.1 | 2340.8 | 2337.4 | 2317.4 |
| 8783.7 | 37.5° | 7124.1 | 5229.1 | 3083.7 | 2626.2 | 2457.6 | 2349.1 | 2322.4 | 2282.3 | 2248.9 | 2205.5 |
| 9284.5 | 40° | 7428.0 | 5270.9 | 2905.1 | 2487.7 | 2332.4 | 2272.3 | 2260.6 | 2207.2 | 2112.0 | 2005.2 |
| 9852.2 | 42.5° | 7796.9 | 5299.2 | 2719.7 | 2349.1 | 2200.5 | 2180.5 | 2197.2 | 2105.3 | 1953.4 | 1873.3 |
| 10536.7 | 45° | 8224.4 | 5346.0 | 2549.4 | 2212.2 | 2065.3 | 2065.3 | 2135.4 | 2015.2 | 1890.0 | 1839.9 |
| 11318.1 | 47.5° | 8778.7 | 5454.5 | 2390.8 | 2061.9 | 1940.1 | 1973.4 | 1998.5 | 1906.7 | 1836.5 | 1774.8 |
| 12269.7 | 50° | 9580.1 | 5715.0 | 2227.2 | 1910.0 | 1844.9 | 1911.7 | 1876.6 | 1823.2 | 1741.4 | 1691.3 |
| 13782.4 | 52.5° | 10575.1 | 5868.6 | 2082.0 | 1773.1 | 1763.1 | 1829.9 | 1779.8 | 1729.7 | 1667.9 | 1601.1 |
| 14929.4 | 55° | 11253.0 | 5897.0 | 1960.1 | 1672.9 | 1708.0 | 1701.3 | 1682.9 | 1637.9 | 1604.5 | 1516.0 |
| 16061.4 | 57.5° | 12011.0 | 5953.7 | 1859.9 | 1612.8 | 1672.9 | 1599.5 | 1592.8 | 1554.4 | 1511.0 | 1450.9 |
| 17442.1 | 60° | 12917.5 | 6042.2 | 1773.1 | 1589.4 | 1642.9 | 1532.7 | 1499.3 | 1484.3 | 1440.8 | 1410.8 |
| 19103.3 | 62.5° | 13905.9 | 6122.4 | 1684.6 | 1592.8 | 1607.8 | 1467.6 | 1417.5 | 1412.5 | 1385.8 | 1375.7 |
| 20662.7 | 65° | 14580.4 | 5903.6 | 1574.4 | 1589.4 | 1552.7 | 1400.8 | 1337.3 | 1335.7 | 1314.0 | 1310.6 |
| 21338.9 | 67.5° | 14345.0 | 5210.8 | 1425.8 | 1542.7 | 1495.9 | 1334.0 | 1263.9 | 1257.2 | 1228.8 | 1230.5 |
| 20632.7 | 70° | 13166.3 | 4222.4 | 1220.5 | 1427.5 | 1425.8 | 1273.9 | 1187.1 | 1165.4 | 1127.0 | 1133.6 |
| 17939.6 | 72.5° | 10955.8 | 3128.8 | 945.0 | 1235.5 | 1314.0 | 1218.8 | 1098.6 | 1063.5 | 1015.1 | 1021.8 |
| 13243.1 | 75° | 7912.1 | 2127.0 | 687.9 | 940.0 | 1143.7 | 1153.7 | 1011.8 | 951.7 | 893.2 | 903.2 |
| 7371.2 | 77.5° | 4048.7 | 1205.4 | 505.9 | 647.8 | 898.2 | 1048.5 | 933.3 | 853.2 | 839.8 | 933.3 |
| 2125.4 | 80° | 1320.6 | 604.4 | 350.6 | 454.1 | 589.4 | 858.2 | 818.1 | 726.3 | 722.9 | 744.6 |
| 445.8 | 82.5° | 394.0 | 255.4 | 225.4 | 298.9 | 325.6 | 657.8 | 706.2 | 549.3 | 472.5 | 497.5 |
| 148.6 | 85° | 135.2 | 123.5 | 128.6 | 148.6 | 155.3 | 385.7 | 494.2 | 364.0 | 343.9 | 379.0 |
| 33.4 | 87.5° | 31.7 | 43.4 | 36.7 | 33.4 | 33.4 | 93.5 | 192.0 | 151.9 | 210.4 | 140.2 |
| 0.0 | 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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| <u>180°</u> |
|-------------|
| 3795.0 |
| 3000.2 |
| 2726.4 |
| 2763.2 |
| 2856.7 |
| 2936.8 |
| 2981.9 |
| 2975.2 |
| 2901.7 |
| 2778.2 |
| 2644.6 |
| 2522.7 |
| 2420.9 |
| 2375.8 |
| 2312.4 |
| 2198.8 |
| 1990.1 |
| 1874.9 |
| 1848.2 |
| 1773.1 |
| 1686.3 |
| 1587.8 |
| 1517.6 |
| 1430.8 |
| 1419.1 |
| 1375.7 |
| 1309.0 |
| 1230.5 |
| 1140.3 |
| 1020.1 |
| 906.6 |
| 919.9 |
| 639.4 |
| 514.2 |
| 374.0 |
| 135.2 |
| 0.0 |

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