

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: P954657

Luminaire Tested: **GALN-SB7D-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64900 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

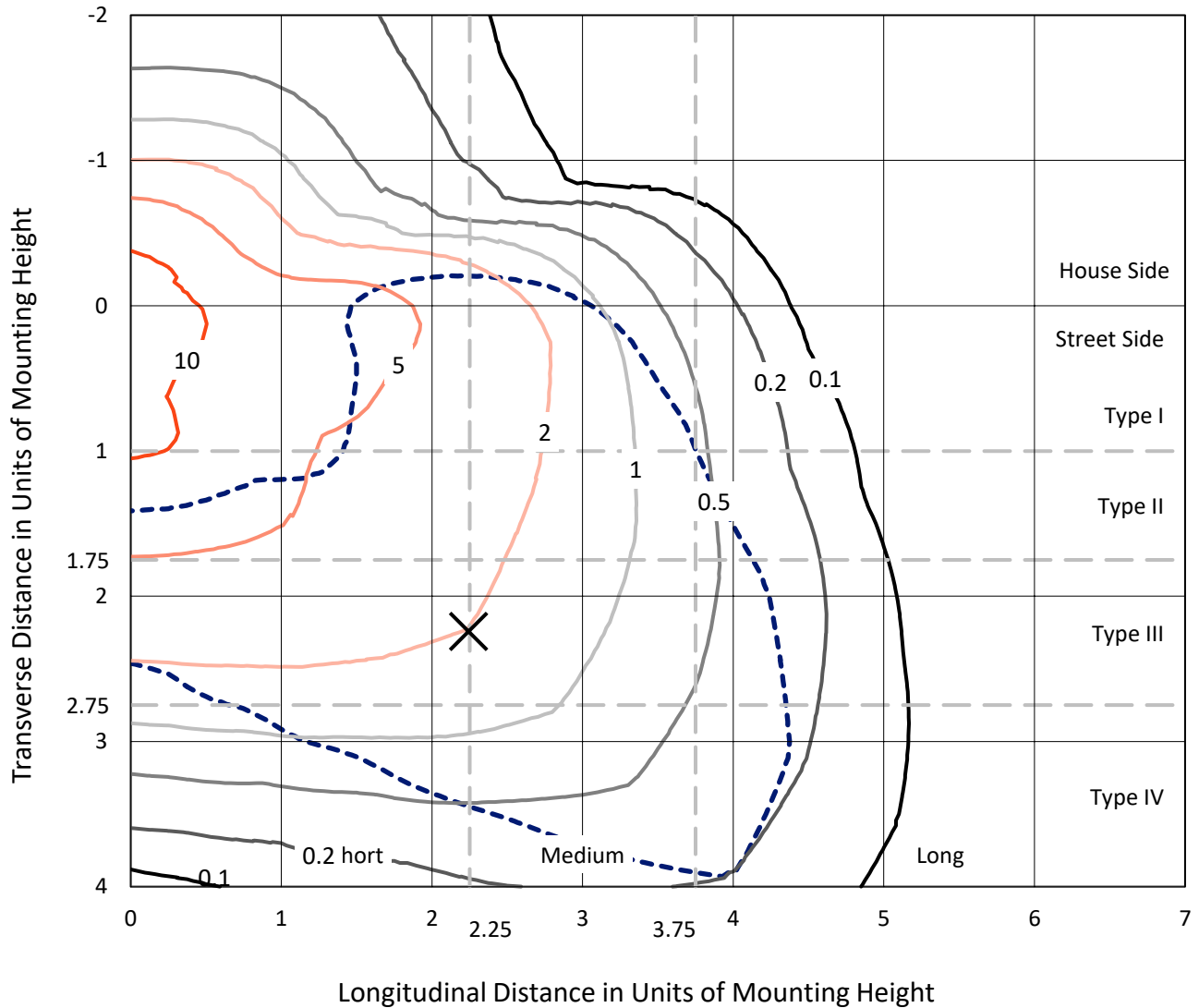
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

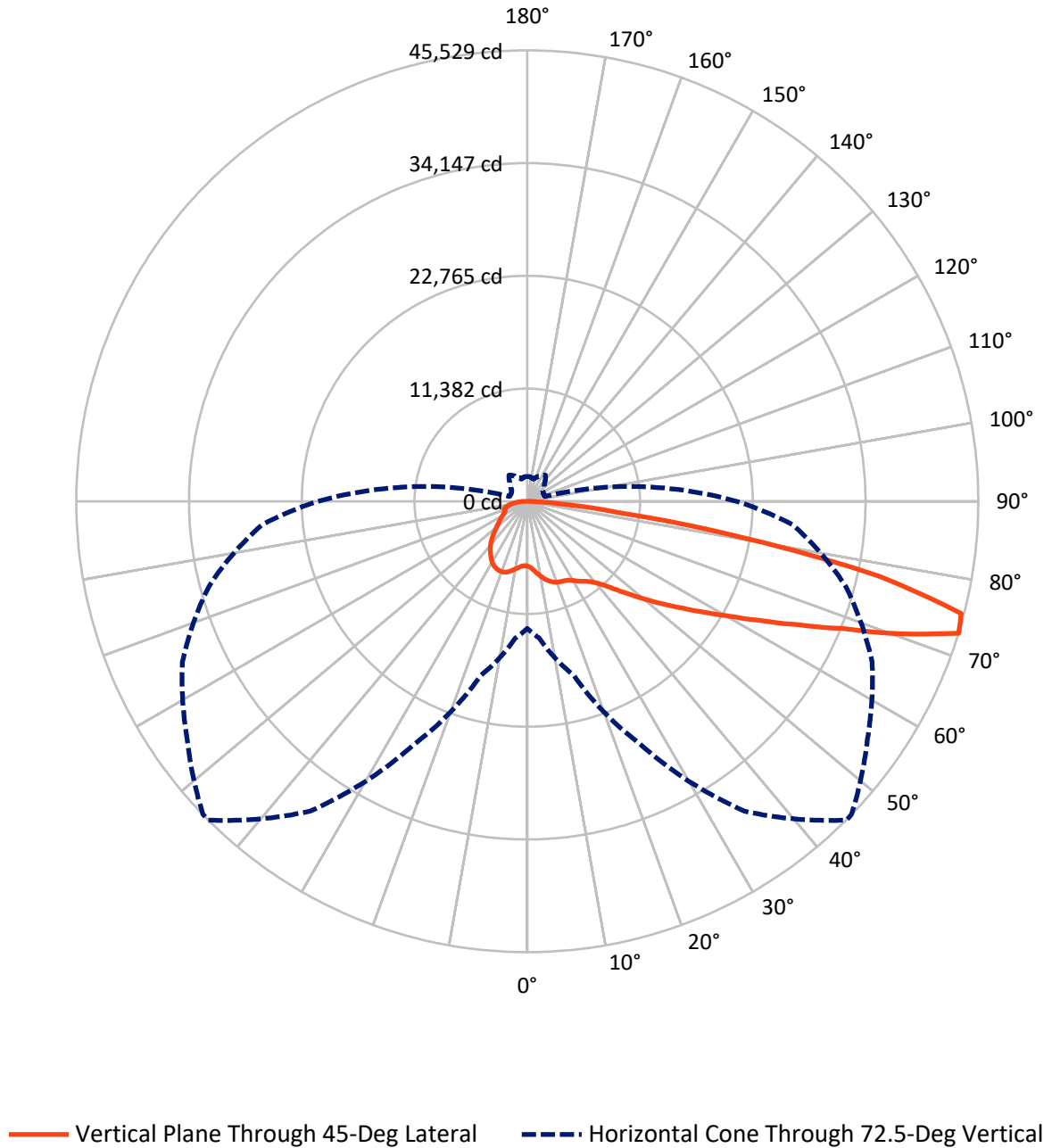
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14671.7 | 0.0 | 14671.7 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 50228.3 | 0.0 | 50228.3 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 64900.0 | 0.0 | 64900.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 666.4 | 1.0 |
| 10°-20° | 2221.8 | 3.4 |
| 20°-30° | 3864.9 | 6.0 |
| 30°-40° | 5540.5 | 8.5 |
| 40°-50° | 7801.4 | 12.0 |
| 50°-60° | 11949.4 | 18.4 |
| 60°-70° | 17310.5 | 26.7 |
| 70°-80° | 13823.5 | 21.3 |
| 80°-90° | 1721.7 | 2.7 |
| 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° | 64900.0 | 100.0 |
| 0°-180° | 64900.0 | 100.0 |

Coefficient of Utilization



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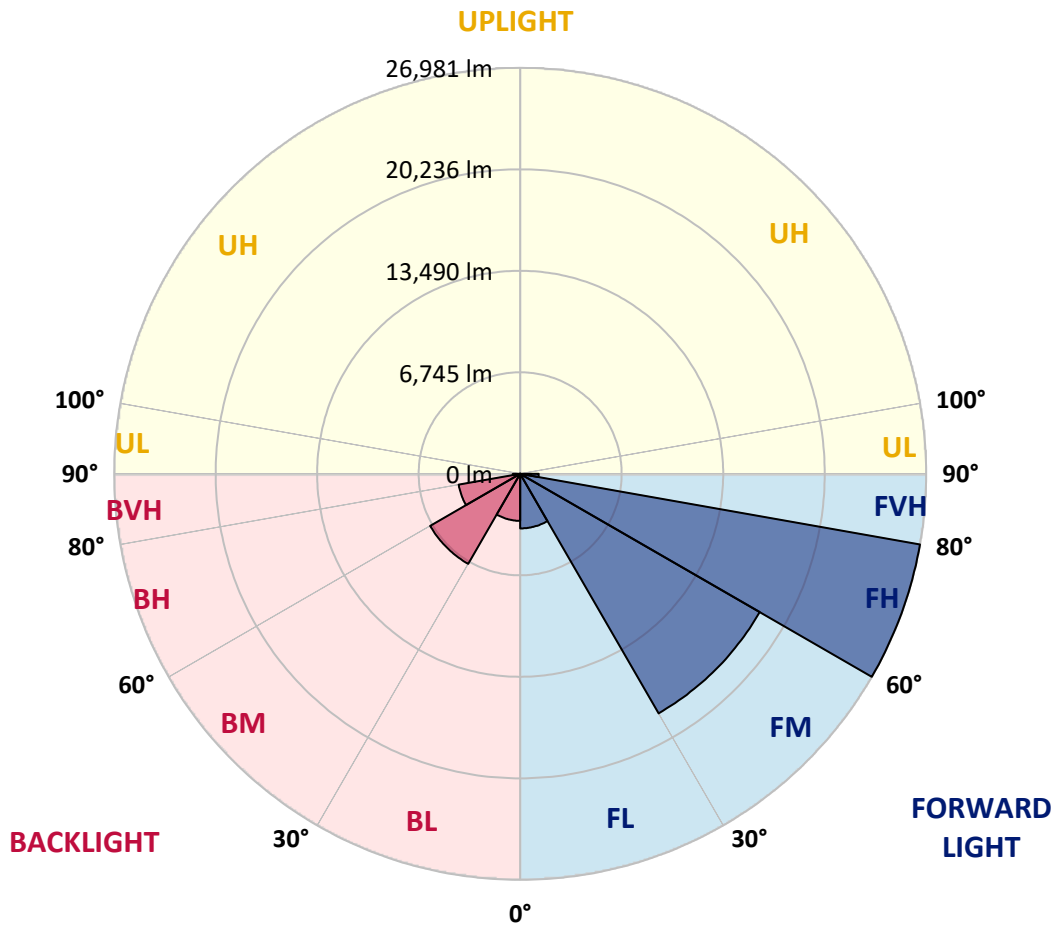
CATALOG NUMBER: GALN-SB7D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3629.3 | 5.6 | | | |
| FM (30°-60°) | 18383.1 | 28.3 | | | |
| FH (60°-80°) | 26980.8 | 41.6 | | | G5 |
| FVH (80°-90°) | 1235.1 | 1.9 | | | G5 |
| BL (0°-30°) | 3123.7 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 6908.3 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 4153.2 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 486.5 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 |
| 2.5° | 6803.6 | 6848.0 | 6807.0 | 6769.4 | 6752.3 | 6707.8 | 6704.4 | 6677.1 | 6660.0 | 6612.1 |
| 5° | 7278.8 | 7336.9 | 7268.5 | 7193.3 | 7124.9 | 7015.5 | 7001.9 | 6923.2 | 6834.3 | 6731.8 |
| 7.5° | 7815.5 | 7866.8 | 7788.2 | 7675.4 | 7555.7 | 7374.5 | 7371.1 | 7227.5 | 7087.3 | 6913.0 |
| 10° | 8283.9 | 8352.3 | 8246.3 | 8092.5 | 7942.0 | 7736.9 | 7713.0 | 7548.9 | 7371.1 | 7145.5 |
| 12.5° | 8697.6 | 8745.5 | 8642.9 | 8454.9 | 8280.5 | 8075.4 | 8044.6 | 7863.4 | 7665.1 | 7408.7 |
| 15° | 9025.8 | 9087.4 | 8950.6 | 8748.9 | 8564.3 | 8362.6 | 8335.2 | 8171.1 | 7972.8 | 7702.7 |
| 17.5° | 9241.2 | 9292.5 | 9152.3 | 8926.7 | 8748.9 | 8581.4 | 8560.9 | 8424.1 | 8249.7 | 7976.2 |
| 20° | 9323.3 | 9378.0 | 9231.0 | 9001.9 | 8837.8 | 8707.9 | 8697.6 | 8598.5 | 8478.8 | 8229.2 |
| 22.5° | 9405.3 | 9456.6 | 9265.2 | 9025.8 | 8882.2 | 8800.2 | 8796.8 | 8731.8 | 8683.9 | 8478.8 |
| 25° | 9737.0 | 9750.6 | 9494.2 | 9148.9 | 8943.8 | 8872.0 | 8868.6 | 8865.1 | 8885.7 | 8725.0 |
| 27.5° | 10024.1 | 10020.7 | 9801.9 | 9477.1 | 9159.2 | 9008.7 | 9005.3 | 9039.5 | 9104.5 | 8971.1 |
| 30° | 10444.7 | 10407.1 | 10147.2 | 9808.8 | 9518.1 | 9285.7 | 9265.2 | 9234.4 | 9285.7 | 9179.7 |
| 32.5° | 11337.0 | 11217.3 | 10796.8 | 10195.1 | 9815.6 | 9637.8 | 9610.5 | 9419.0 | 9439.5 | 9374.6 |
| 35° | 12615.7 | 12458.4 | 11897.7 | 10926.7 | 10184.8 | 9931.8 | 9918.2 | 9675.4 | 9634.4 | 9576.3 |
| 37.5° | 14137.1 | 13942.2 | 13289.2 | 11986.6 | 10820.7 | 10273.7 | 10253.2 | 10034.4 | 9866.9 | 9805.3 |
| 40° | 15665.3 | 15419.1 | 14878.9 | 13278.9 | 11757.5 | 10844.7 | 10779.7 | 10448.1 | 10256.6 | 10154.1 |
| 42.5° | 17149.1 | 16943.9 | 16482.4 | 14728.5 | 12913.1 | 11678.9 | 11535.3 | 10967.8 | 10824.2 | 10728.4 |
| 45° | 18461.9 | 18277.3 | 17938.8 | 16277.3 | 14267.0 | 12813.9 | 12673.8 | 11747.3 | 11702.8 | 11702.8 |
| 47.5° | 19528.6 | 19487.6 | 19128.6 | 17856.8 | 15863.6 | 14106.3 | 13863.5 | 12831.0 | 12950.7 | 13135.3 |
| 50° | 20711.5 | 20598.7 | 20215.8 | 19412.4 | 17740.5 | 15586.7 | 15388.4 | 14161.0 | 14608.9 | 15114.8 |
| 52.5° | 21798.8 | 21860.3 | 21432.9 | 21032.9 | 19860.2 | 17238.0 | 16889.2 | 15730.2 | 16697.8 | 17535.4 |
| 55° | 22916.7 | 22920.1 | 22800.5 | 22745.8 | 22082.5 | 19063.7 | 18680.7 | 17617.5 | 19156.0 | 20195.3 |
| 57.5° | 23966.3 | 23973.2 | 24150.9 | 24633.0 | 24660.3 | 21169.7 | 20735.5 | 19935.5 | 21887.6 | 22947.5 |
| 60° | 24903.1 | 24951.0 | 25436.4 | 26564.7 | 26927.1 | 23583.4 | 23173.1 | 22674.0 | 24711.6 | 25778.3 |
| 62.5° | 25217.6 | 25392.0 | 26472.4 | 28075.8 | 29166.4 | 26544.2 | 26140.7 | 25843.3 | 27679.2 | 28670.7 |
| 65° | 24684.3 | 25084.3 | 27173.2 | 29323.7 | 31470.8 | 30062.2 | 29662.2 | 29337.4 | 30763.0 | 31696.4 |
| 67.5° | 23374.9 | 23891.1 | 27132.2 | 30633.1 | 34267.4 | 34294.7 | 33922.1 | 33159.7 | 34069.1 | 34428.1 |
| 70° | 19925.2 | 20697.9 | 24742.4 | 31122.0 | 37477.7 | 40082.9 | 39723.9 | 37761.5 | 37368.3 | 35631.5 |
| 72.5° | 12837.9 | 13877.2 | 18219.2 | 27098.0 | 38192.3 | 45529.2 | 45508.7 | 41915.4 | 38411.1 | 33293.0 |
| 75° | 4683.9 | 5319.8 | 8465.1 | 17008.9 | 32058.8 | 45252.2 | 45385.6 | 41204.3 | 35064.0 | 25716.8 |
| 77.5° | 1706.0 | 1866.7 | 2762.5 | 6536.9 | 19716.7 | 36308.5 | 36585.4 | 32940.9 | 24957.8 | 12906.3 |
| 80° | 895.7 | 984.6 | 1415.4 | 2536.8 | 8448.0 | 21562.8 | 21997.0 | 19576.5 | 11730.2 | 3887.3 |
| 82.5° | 495.7 | 536.8 | 793.2 | 1377.8 | 3805.2 | 9220.7 | 9480.5 | 7733.5 | 4126.6 | 1647.9 |
| 85° | 266.7 | 283.8 | 372.7 | 752.2 | 1859.9 | 3196.6 | 3268.4 | 2311.2 | 1644.5 | 967.5 |
| 87.5° | 78.6 | 95.7 | 123.1 | 239.3 | 728.2 | 718.0 | 735.1 | 458.1 | 649.6 | 488.9 |
| 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-SB7D-830-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6547.1 | 0° | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 | 6547.1 |
| 6598.4 | 2.5° | 6577.9 | 6567.7 | 6530.1 | 6513.0 | 6492.4 | 6489.0 | 6506.1 | 6509.5 | 6513.0 | 6516.4 |
| 6673.6 | 5° | 6639.5 | 6605.3 | 6571.1 | 6550.6 | 6557.4 | 6560.8 | 6595.0 | 6618.9 | 6636.0 | 6649.7 |
| 6813.8 | 7.5° | 6759.1 | 6731.8 | 6673.6 | 6670.2 | 6680.5 | 6711.3 | 6755.7 | 6810.4 | 6841.2 | 6865.1 |
| 6995.0 | 10° | 6936.9 | 6885.6 | 6817.2 | 6827.5 | 6848.0 | 6892.5 | 6984.8 | 7029.2 | 7080.5 | 7124.9 |
| 7217.2 | 12.5° | 7118.1 | 7073.7 | 6995.0 | 7001.9 | 7036.0 | 7114.7 | 7203.6 | 7258.3 | 7292.5 | 7326.7 |
| 7456.6 | 15° | 7354.0 | 7275.4 | 7189.9 | 7189.9 | 7251.4 | 7336.9 | 7377.9 | 7422.4 | 7442.9 | 7480.5 |
| 7713.0 | 17.5° | 7596.7 | 7494.2 | 7381.4 | 7374.5 | 7449.7 | 7490.8 | 7514.7 | 7521.5 | 7528.4 | 7569.4 |
| 7962.6 | 20° | 7839.5 | 7726.7 | 7566.0 | 7552.3 | 7569.4 | 7562.6 | 7559.1 | 7552.3 | 7562.6 | 7613.8 |
| 8219.0 | 22.5° | 8078.8 | 7948.9 | 7726.7 | 7665.1 | 7617.3 | 7552.3 | 7548.9 | 7545.5 | 7552.3 | 7603.6 |
| 8495.9 | 25° | 8359.2 | 8201.9 | 7904.4 | 7719.8 | 7559.1 | 7470.2 | 7480.5 | 7483.9 | 7490.8 | 7531.8 |
| 8783.1 | 27.5° | 8663.4 | 8489.1 | 8068.5 | 7702.7 | 7412.1 | 7350.6 | 7333.5 | 7343.7 | 7367.7 | 7432.6 |
| 9070.3 | 30° | 8967.7 | 8762.6 | 8219.0 | 7634.3 | 7227.5 | 7142.0 | 7087.3 | 7111.3 | 7186.5 | 7251.4 |
| 9319.9 | 32.5° | 9244.6 | 9039.5 | 8338.6 | 7483.9 | 6991.6 | 6858.3 | 6786.5 | 6817.2 | 6892.5 | 6916.4 |
| 9596.8 | 35° | 9569.4 | 9336.9 | 8389.9 | 7244.6 | 6735.2 | 6530.1 | 6434.3 | 6389.9 | 6427.5 | 6403.6 |
| 9921.6 | 37.5° | 9931.8 | 9689.1 | 8383.1 | 6930.1 | 6434.3 | 6198.4 | 6065.1 | 5897.6 | 5818.9 | 5736.9 |
| 10400.2 | 40° | 10468.6 | 10119.9 | 8301.0 | 6550.6 | 6061.7 | 5846.3 | 5607.0 | 5323.2 | 5145.4 | 4984.7 |
| 11172.9 | 42.5° | 11200.2 | 10718.2 | 8150.6 | 6133.5 | 5641.1 | 5439.4 | 5114.6 | 4783.0 | 4502.7 | 4236.0 |
| 12345.6 | 45° | 12290.9 | 11501.1 | 7962.6 | 5689.0 | 5186.4 | 4988.1 | 4636.0 | 4263.3 | 3945.4 | 3603.5 |
| 14010.6 | 47.5° | 13863.5 | 12554.1 | 7784.8 | 5183.0 | 4707.8 | 4526.6 | 4208.6 | 3863.3 | 3487.3 | 3155.6 |
| 16417.4 | 50° | 16024.3 | 14065.3 | 7620.7 | 4690.7 | 4236.0 | 4099.2 | 3846.2 | 3494.1 | 3114.6 | 2847.9 |
| 19238.0 | 52.5° | 18773.0 | 16120.0 | 7552.3 | 4215.5 | 3795.0 | 3743.7 | 3542.0 | 3213.7 | 2854.8 | 2629.1 |
| 22527.0 | 55° | 21928.7 | 18578.2 | 7552.3 | 3760.8 | 3408.6 | 3425.7 | 3285.5 | 2981.3 | 2670.1 | 2468.4 |
| 25918.5 | 57.5° | 25149.2 | 21067.1 | 7415.5 | 3340.2 | 3080.4 | 3152.2 | 3063.3 | 2796.6 | 2516.3 | 2307.7 |
| 29484.4 | 60° | 28116.8 | 23152.6 | 6861.7 | 2957.3 | 2789.8 | 2902.6 | 2844.5 | 2615.4 | 2273.6 | 2099.2 |
| 32465.6 | 62.5° | 30397.2 | 24328.7 | 5795.0 | 2653.0 | 2550.5 | 2680.4 | 2649.6 | 2376.1 | 2229.1 | 2157.3 |
| 34913.6 | 65° | 31539.1 | 24137.3 | 4430.9 | 2383.0 | 2348.8 | 2550.5 | 2485.5 | 2475.3 | 2359.0 | 2277.0 |
| 35710.2 | 67.5° | 30838.3 | 22489.4 | 3213.7 | 2184.7 | 2232.5 | 2430.8 | 2680.4 | 2721.4 | 2506.0 | 2345.3 |
| 33467.4 | 70° | 27764.7 | 19508.1 | 2393.2 | 1996.6 | 2085.5 | 2434.2 | 3056.5 | 2847.9 | 2458.2 | 2270.1 |
| 26841.6 | 72.5° | 21121.8 | 14547.3 | 1856.4 | 1798.3 | 1894.1 | 2451.3 | 3224.0 | 2789.8 | 2321.4 | 2509.5 |
| 16721.7 | 75° | 12078.9 | 7986.5 | 1490.6 | 1555.6 | 1654.7 | 2290.6 | 3138.5 | 2639.4 | 2215.4 | 2304.3 |
| 6625.8 | 77.5° | 4605.2 | 3070.2 | 1230.8 | 1316.3 | 1329.9 | 2000.0 | 3001.8 | 2629.1 | 2109.4 | 2058.2 |
| 1986.4 | 80° | 1596.6 | 1200.0 | 1018.8 | 1046.2 | 1029.1 | 1777.8 | 2878.7 | 2287.2 | 1726.5 | 1545.3 |
| 820.5 | 82.5° | 653.0 | 598.3 | 806.9 | 772.7 | 731.6 | 1381.2 | 2324.8 | 1870.1 | 1412.0 | 1247.9 |
| 396.6 | 85° | 283.8 | 379.5 | 533.3 | 468.4 | 423.9 | 957.3 | 1863.3 | 1582.9 | 1193.2 | 1029.1 |
| 129.9 | 87.5° | 58.1 | 143.6 | 225.6 | 212.0 | 218.8 | 639.3 | 1323.1 | 1124.8 | 844.5 | 632.5 |
| 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> |
|-------------|
| 6547.1 |
| 6530.1 |
| 6656.6 |
| 6871.9 |
| 7114.7 |
| 7340.3 |
| 7494.2 |
| 7583.1 |
| 7634.3 |
| 7637.8 |
| 7586.5 |
| 7497.6 |
| 7323.2 |
| 7001.9 |
| 6478.8 |
| 5788.2 |
| 4995.0 |
| 4212.1 |
| 3562.5 |
| 3118.0 |
| 2830.8 |
| 2612.0 |
| 2447.9 |
| 2273.6 |
| 2071.8 |
| 2133.4 |
| 2249.6 |
| 2318.0 |
| 2239.4 |
| 2488.9 |
| 2304.3 |
| 1877.0 |
| 1494.0 |
| 1234.2 |
| 1025.7 |
| 495.7 |
| 0.0 |

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