

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: P954588

Luminaire Tested: **GALN-SB7D-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954588
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-SB7D-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77984 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

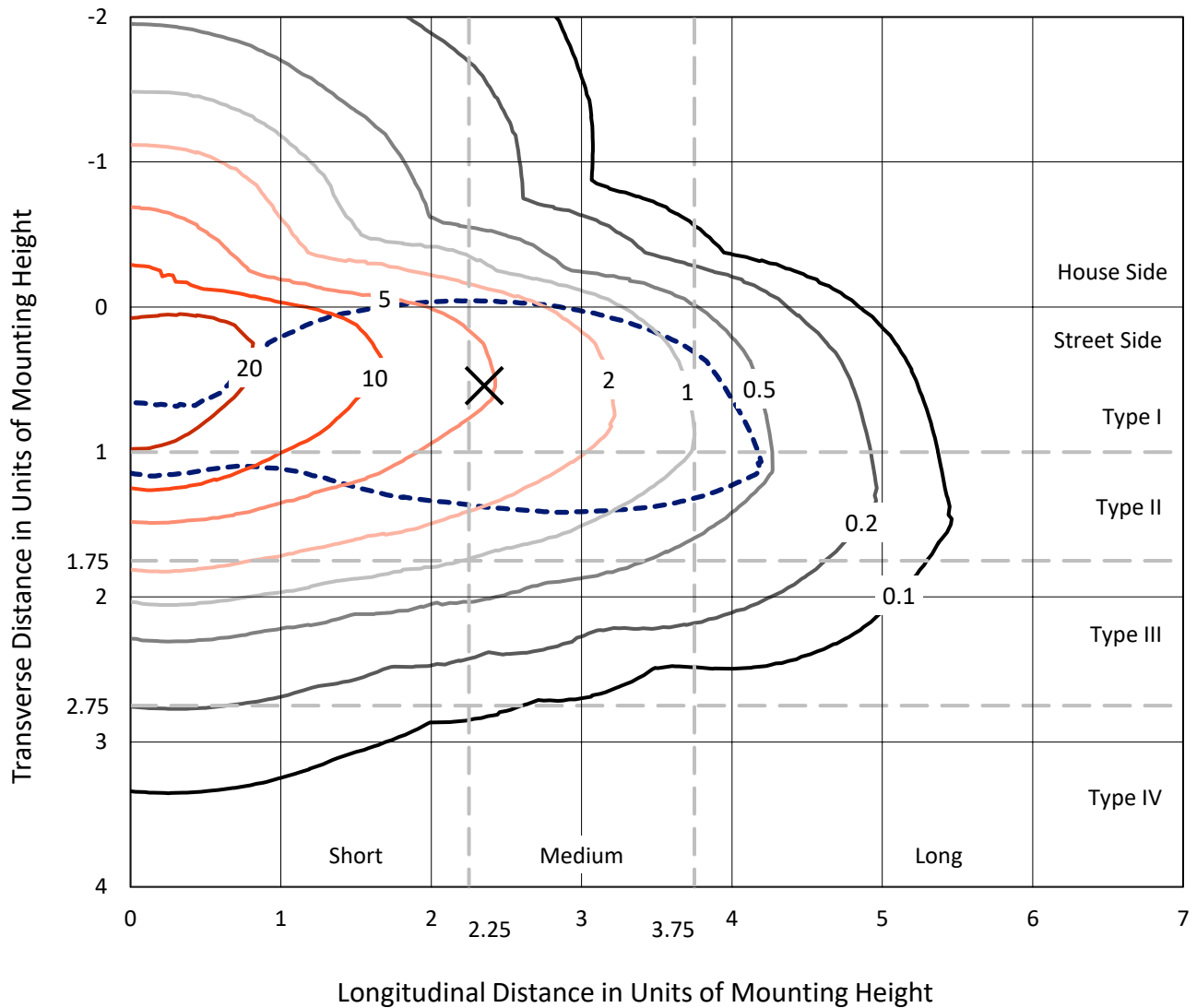
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

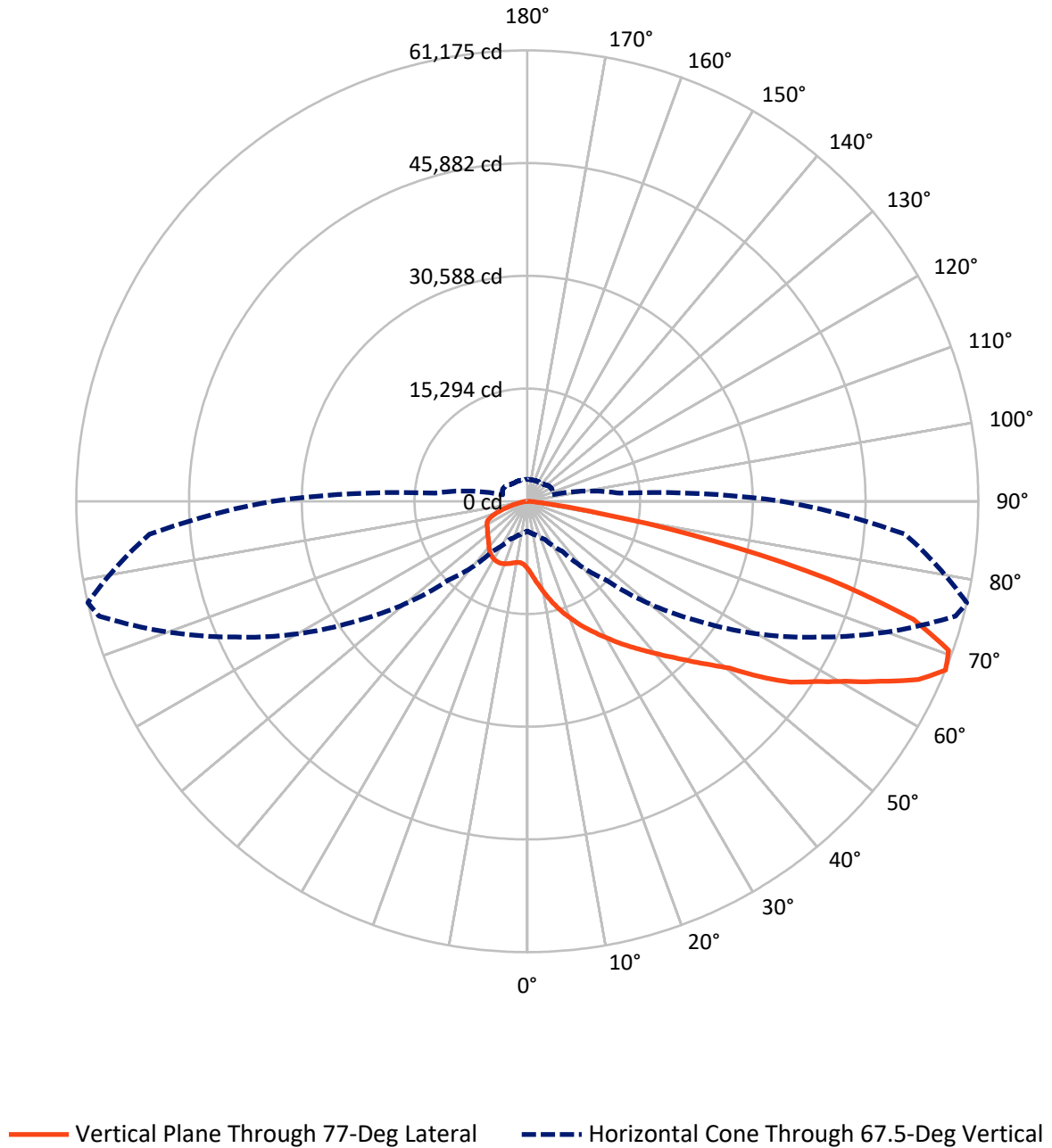
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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 | 14751.4 | 0.0 | 14751.4 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 63232.5 | 0.0 | 63232.5 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 77984.0 | 0.0 | 77984.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 980.8 | 1.3 |
| 10°-20° | 3523.4 | 4.5 |
| 20°-30° | 6652.6 | 8.5 |
| 30°-40° | 10717.2 | 13.7 |
| 40°-50° | 14659.2 | 18.8 |
| 50°-60° | 16535.7 | 21.2 |
| 60°-70° | 15434.0 | 19.8 |
| 70°-80° | 8460.5 | 10.8 |
| 80°-90° | 1020.5 | 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° | 77984.0 | 100.0 |
| 0°-180° | 77984.0 | 100.0 |



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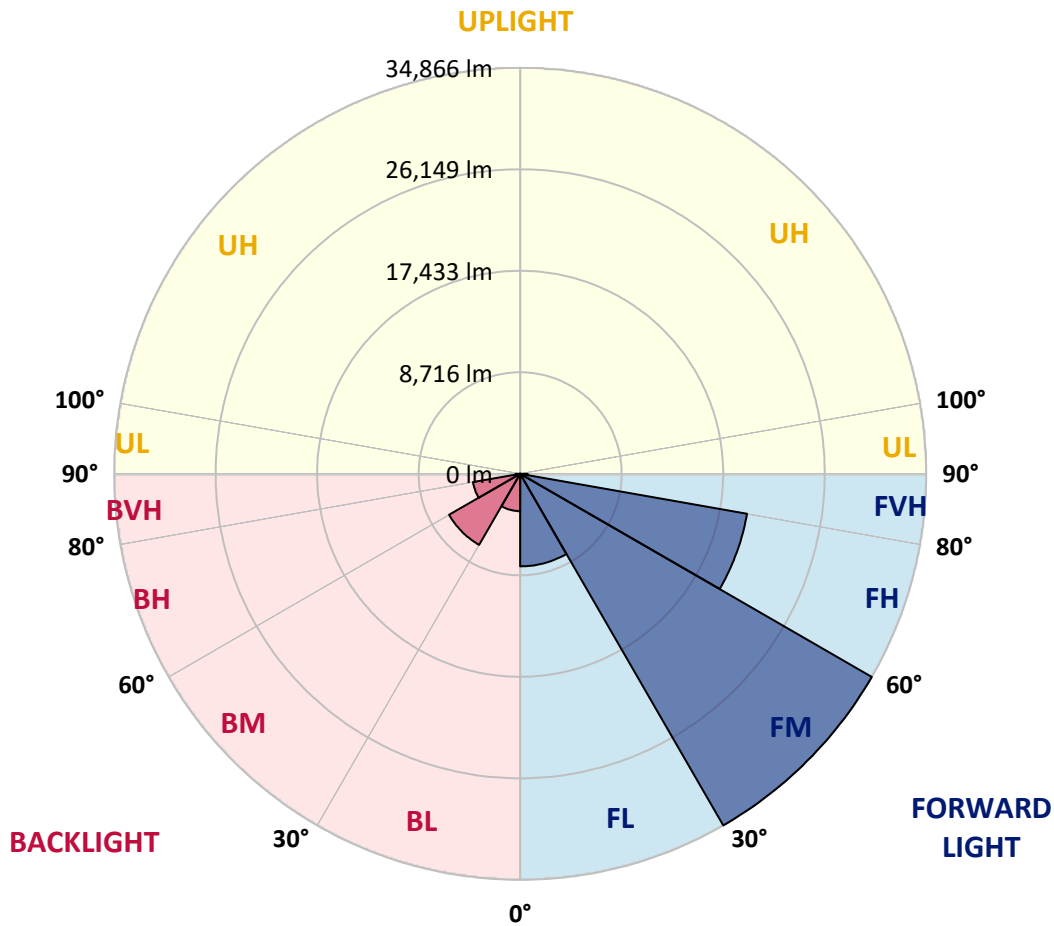
CATALOG NUMBER: GALN-SB7D-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 7949.5 | 10.2 | | | |
| FM (30°-60°) | 34865.8 | 44.7 | | | |
| FH (60°-80°) | 19779.1 | 25.4 | | | G5 |
| FVH (80°-90°) | 638.2 | 0.8 | | | G4/750 |
| BL (0°-30°) | 3207.3 | 4.1 | B4/5000 | | |
| BM (30°-60°) | 7046.4 | 9.0 | B4/8500 | | |
| BH (60°-80°) | 4115.4 | 5.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 382.3 | 0.5 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 |
| 2.5° | 11456.6 | 11537.1 | 11436.4 | 11436.4 | 11098.3 | 10921.2 | 10583.0 | 10325.4 | 9862.5 | 9781.9 |
| 5° | 13541.8 | 13642.4 | 13501.5 | 13441.1 | 13042.6 | 12676.3 | 12108.7 | 11549.1 | 10723.9 | 10639.4 |
| 7.5° | 15156.0 | 15284.8 | 15160.0 | 15095.6 | 14741.4 | 14330.8 | 13666.5 | 12885.6 | 11722.2 | 11557.2 |
| 10° | 16472.3 | 16492.4 | 16452.2 | 16476.3 | 16198.6 | 15860.4 | 15180.1 | 14270.4 | 12817.2 | 12591.7 |
| 12.5° | 17217.0 | 17309.6 | 17390.1 | 17535.0 | 17486.7 | 17277.4 | 16665.5 | 15578.7 | 13976.5 | 13686.7 |
| 15° | 17567.3 | 17728.3 | 17909.4 | 18243.5 | 18513.2 | 18565.6 | 18098.6 | 16983.6 | 15156.0 | 14805.8 |
| 17.5° | 17692.0 | 17845.0 | 18130.8 | 18613.9 | 19193.6 | 19584.0 | 19374.7 | 18348.2 | 16323.4 | 15920.8 |
| 20° | 18324.0 | 18368.3 | 18541.4 | 19000.3 | 19628.3 | 20276.4 | 20433.4 | 19660.5 | 17478.7 | 17023.8 |
| 22.5° | 19676.6 | 19588.0 | 19636.4 | 19845.7 | 20296.5 | 20924.5 | 21282.8 | 20819.9 | 18666.2 | 18142.9 |
| 25° | 21910.8 | 21653.1 | 21395.5 | 21154.0 | 21383.4 | 21737.7 | 22144.2 | 21979.2 | 19910.1 | 19245.9 |
| 27.5° | 24732.6 | 24418.6 | 23851.0 | 23058.0 | 22780.3 | 22905.1 | 23086.2 | 23054.0 | 21061.4 | 20389.1 |
| 30° | 27510.2 | 27143.9 | 26467.6 | 25320.4 | 24587.7 | 24257.6 | 24120.8 | 24028.2 | 22313.3 | 21596.8 |
| 32.5° | 29728.3 | 29438.4 | 28774.2 | 27490.1 | 26427.4 | 25863.8 | 25408.9 | 25078.8 | 23621.6 | 22905.1 |
| 35° | 31668.6 | 31398.8 | 30638.0 | 29237.2 | 28081.8 | 27482.0 | 26886.3 | 26181.8 | 24982.2 | 24257.6 |
| 37.5° | 33439.8 | 33170.1 | 32127.5 | 30670.2 | 29506.9 | 29092.2 | 28560.9 | 27365.3 | 26346.9 | 25662.5 |
| 40° | 34558.9 | 34498.5 | 33524.3 | 31873.9 | 30666.2 | 30460.9 | 30283.8 | 28738.0 | 27860.4 | 27224.4 |
| 42.5° | 34844.7 | 34977.5 | 34204.6 | 32848.0 | 31696.7 | 31531.7 | 31946.3 | 30291.8 | 29559.2 | 28951.3 |
| 45° | 34156.3 | 34538.7 | 34031.5 | 33109.7 | 32429.4 | 32340.8 | 33419.6 | 31990.6 | 31439.1 | 30883.6 |
| 47.5° | 32413.3 | 33061.4 | 32852.0 | 32723.2 | 32626.6 | 33009.0 | 34715.9 | 33794.0 | 33568.6 | 33085.5 |
| 50° | 28895.0 | 30122.8 | 30489.1 | 31302.2 | 32236.1 | 33528.3 | 35895.3 | 35762.5 | 36056.3 | 35569.3 |
| 52.5° | 22812.5 | 24503.2 | 26628.6 | 28665.5 | 31036.6 | 33355.2 | 37191.5 | 38588.4 | 39828.2 | 39562.5 |
| 55° | 18831.3 | 19592.1 | 21226.4 | 24962.1 | 28709.8 | 32626.6 | 37775.2 | 40870.8 | 43571.9 | 43334.4 |
| 57.5° | 15771.9 | 16452.2 | 17458.6 | 20578.3 | 25191.5 | 30972.1 | 38137.5 | 42263.7 | 46136.2 | 46112.0 |
| 60° | 12491.1 | 13211.7 | 14242.2 | 16452.2 | 21081.5 | 28114.0 | 38057.0 | 43849.7 | 49408.9 | 49610.2 |
| 62.5° | 8787.7 | 9580.7 | 10723.9 | 12785.0 | 16882.9 | 24410.6 | 36414.6 | 44997.0 | 53261.3 | 53808.8 |
| 65° | 5776.6 | 6299.9 | 7161.4 | 8940.6 | 12579.7 | 19648.4 | 33278.8 | 45145.9 | 57383.4 | 58309.3 |
| 67.5° | 4049.6 | 4250.9 | 4758.1 | 5724.3 | 8292.5 | 15067.4 | 28283.1 | 43604.1 | 60132.8 | 61175.4 |
| 70° | 3160.0 | 3260.6 | 3518.3 | 3904.7 | 5209.0 | 10132.2 | 21673.3 | 39594.8 | 59545.1 | 60632.0 |
| 72.5° | 2729.3 | 2825.9 | 2922.5 | 2970.8 | 3494.1 | 6255.6 | 14681.0 | 33105.7 | 54010.0 | 54746.7 |
| 75° | 2475.7 | 2499.8 | 2580.3 | 2564.2 | 2664.9 | 4057.7 | 8473.7 | 24120.8 | 42613.9 | 42360.3 |
| 77.5° | 2081.2 | 2113.4 | 2246.2 | 2226.1 | 2367.0 | 2773.6 | 4399.9 | 15566.6 | 27627.0 | 25904.0 |
| 80° | 1763.2 | 1779.3 | 1924.2 | 1900.0 | 2057.0 | 2008.7 | 2246.2 | 7934.2 | 11718.2 | 9926.9 |
| 82.5° | 611.9 | 756.8 | 1469.3 | 1513.6 | 1569.9 | 1215.7 | 1296.2 | 3236.5 | 3578.7 | 2741.4 |
| 85° | 297.9 | 318.0 | 748.7 | 1062.7 | 1058.7 | 611.9 | 632.0 | 1155.3 | 1127.1 | 885.6 |
| 87.5° | 48.3 | 60.4 | 88.6 | 414.6 | 330.1 | 161.0 | 217.4 | 225.4 | 233.5 | 201.3 |
| 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-750-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9149.9 | 0° | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 | 9149.9 |
| 9476.0 | 2.5° | 9250.6 | 9049.3 | 8626.6 | 8236.2 | 7930.2 | 7636.4 | 7471.3 | 7330.4 | 7249.9 | 7233.8 |
| 9918.8 | 5° | 9500.2 | 9085.5 | 8316.7 | 7668.6 | 7245.9 | 6931.9 | 6766.9 | 6662.2 | 6609.9 | 6577.7 |
| 10514.6 | 7.5° | 9858.4 | 9250.6 | 8155.6 | 7419.0 | 6976.2 | 6750.8 | 6666.2 | 6650.1 | 6646.1 | 6650.1 |
| 11235.2 | 10° | 10353.6 | 9520.3 | 8139.5 | 7358.6 | 6988.3 | 6863.5 | 6859.4 | 6863.5 | 6879.6 | 6883.6 |
| 12020.1 | 12.5° | 10889.0 | 9798.1 | 8204.0 | 7410.9 | 7141.2 | 7072.8 | 7060.7 | 7056.7 | 7068.8 | 7076.8 |
| 12813.1 | 15° | 11472.7 | 10164.4 | 8312.6 | 7523.6 | 7310.3 | 7237.8 | 7225.8 | 7201.6 | 7197.6 | 7193.6 |
| 13646.4 | 17.5° | 12072.5 | 10526.7 | 8433.4 | 7644.4 | 7419.0 | 7318.3 | 7274.1 | 7217.7 | 7173.4 | 7161.4 |
| 14507.9 | 20° | 12680.3 | 10884.9 | 8517.9 | 7704.8 | 7427.0 | 7286.1 | 7197.6 | 7101.0 | 7024.5 | 6980.2 |
| 15377.4 | 22.5° | 13328.4 | 11259.3 | 8570.3 | 7688.7 | 7354.6 | 7161.4 | 7000.3 | 6887.6 | 6770.9 | 6694.4 |
| 16254.9 | 25° | 13960.4 | 11585.4 | 8566.2 | 7604.2 | 7213.7 | 6968.1 | 6762.8 | 6617.9 | 6456.9 | 6376.4 |
| 17160.7 | 27.5° | 14568.3 | 11879.2 | 8465.6 | 7455.2 | 7012.4 | 6738.7 | 6493.1 | 6320.0 | 6163.0 | 6086.5 |
| 18074.5 | 30° | 15196.2 | 12124.8 | 8308.6 | 7237.8 | 6774.9 | 6473.0 | 6203.3 | 6054.3 | 5913.4 | 5841.0 |
| 19040.6 | 32.5° | 15820.2 | 12350.2 | 8087.2 | 6968.1 | 6501.2 | 6211.3 | 5945.7 | 5808.8 | 5724.3 | 5724.3 |
| 20079.2 | 35° | 16480.4 | 12507.2 | 7793.4 | 6654.1 | 6211.3 | 5933.6 | 5724.3 | 5643.7 | 5635.7 | 5587.4 |
| 21178.1 | 37.5° | 17176.8 | 12607.8 | 7435.1 | 6332.1 | 5925.5 | 5663.9 | 5599.5 | 5502.8 | 5422.3 | 5317.7 |
| 22385.8 | 40° | 17909.4 | 12708.5 | 7004.4 | 5998.0 | 5623.6 | 5478.7 | 5450.5 | 5321.7 | 5092.2 | 4834.6 |
| 23754.4 | 42.5° | 18799.1 | 12776.9 | 6557.5 | 5663.9 | 5305.6 | 5257.3 | 5297.5 | 5076.1 | 4709.8 | 4516.6 |
| 25404.9 | 45° | 19829.6 | 12889.6 | 6146.9 | 5333.8 | 4979.5 | 4979.5 | 5148.6 | 4858.8 | 4556.9 | 4436.1 |
| 27288.8 | 47.5° | 21166.0 | 13151.3 | 5764.5 | 4971.5 | 4677.6 | 4758.1 | 4818.5 | 4597.1 | 4428.0 | 4279.1 |
| 29583.3 | 50° | 23098.3 | 13779.3 | 5370.0 | 4605.2 | 4448.2 | 4609.2 | 4524.7 | 4395.8 | 4198.6 | 4077.8 |
| 33230.4 | 52.5° | 25497.5 | 14149.6 | 5019.8 | 4275.1 | 4250.9 | 4411.9 | 4291.2 | 4170.4 | 4021.5 | 3860.4 |
| 35996.0 | 55° | 27131.8 | 14218.0 | 4725.9 | 4033.5 | 4118.1 | 4102.0 | 4057.7 | 3949.0 | 3868.5 | 3655.1 |
| 38725.2 | 57.5° | 28959.4 | 14354.9 | 4484.4 | 3888.6 | 4033.5 | 3856.4 | 3840.3 | 3747.7 | 3643.1 | 3498.2 |
| 42054.3 | 60° | 31145.2 | 14568.3 | 4275.1 | 3832.3 | 3961.1 | 3695.4 | 3614.9 | 3578.7 | 3474.0 | 3401.5 |
| 46059.7 | 62.5° | 33528.3 | 14761.5 | 4061.7 | 3840.3 | 3876.5 | 3538.4 | 3417.6 | 3405.6 | 3341.2 | 3317.0 |
| 49819.5 | 65° | 35154.6 | 14234.1 | 3796.0 | 3832.3 | 3743.7 | 3377.4 | 3224.4 | 3220.4 | 3168.1 | 3160.0 |
| 51449.8 | 67.5° | 34587.0 | 12563.6 | 3437.8 | 3719.6 | 3606.8 | 3216.4 | 3047.3 | 3031.2 | 2962.8 | 2966.8 |
| 49747.0 | 70° | 31745.0 | 10180.5 | 2942.6 | 3441.8 | 3437.8 | 3071.5 | 2862.1 | 2809.8 | 2717.2 | 2733.3 |
| 43253.9 | 72.5° | 26415.3 | 7543.8 | 2278.4 | 2978.9 | 3168.1 | 2938.6 | 2648.8 | 2564.2 | 2447.5 | 2463.6 |
| 31930.2 | 75° | 19076.8 | 5128.5 | 1658.5 | 2266.4 | 2757.5 | 2781.6 | 2439.4 | 2294.5 | 2153.6 | 2177.8 |
| 17772.6 | 77.5° | 9761.8 | 2906.4 | 1219.7 | 1561.9 | 2165.7 | 2528.0 | 2250.3 | 2057.0 | 2024.8 | 2250.3 |
| 5124.5 | 80° | 3184.2 | 1457.2 | 845.4 | 1094.9 | 1421.0 | 2069.1 | 1972.5 | 1751.1 | 1743.0 | 1795.4 |
| 1074.8 | 82.5° | 950.0 | 615.9 | 543.4 | 720.6 | 785.0 | 1586.0 | 1702.8 | 1324.4 | 1139.2 | 1199.6 |
| 358.3 | 85° | 326.1 | 297.9 | 310.0 | 358.3 | 374.4 | 929.9 | 1191.5 | 877.6 | 829.3 | 913.8 |
| 80.5 | 87.5° | 76.5 | 104.7 | 88.6 | 80.5 | 80.5 | 225.4 | 462.9 | 366.3 | 507.2 | 338.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 9149.9 |
| 7233.8 |
| 6573.6 |
| 6662.2 |
| 6887.6 |
| 7080.8 |
| 7189.5 |
| 7173.4 |
| 6996.3 |
| 6698.4 |
| 6376.4 |
| 6082.5 |
| 5837.0 |
| 5728.3 |
| 5575.3 |
| 5301.6 |
| 4798.4 |
| 4520.6 |
| 4456.2 |
| 4275.1 |
| 4065.7 |
| 3828.2 |
| 3659.2 |
| 3449.8 |
| 3421.7 |
| 3317.0 |
| 3156.0 |
| 2966.8 |
| 2749.4 |
| 2459.6 |
| 2185.8 |
| 2218.0 |
| 1541.8 |
| 1239.9 |
| 901.7 |
| 326.1 |
| 0.0 |

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