

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: P951024

Luminaire Tested: **GALN-SB5B-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951024
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-SB5B-750-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30035 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

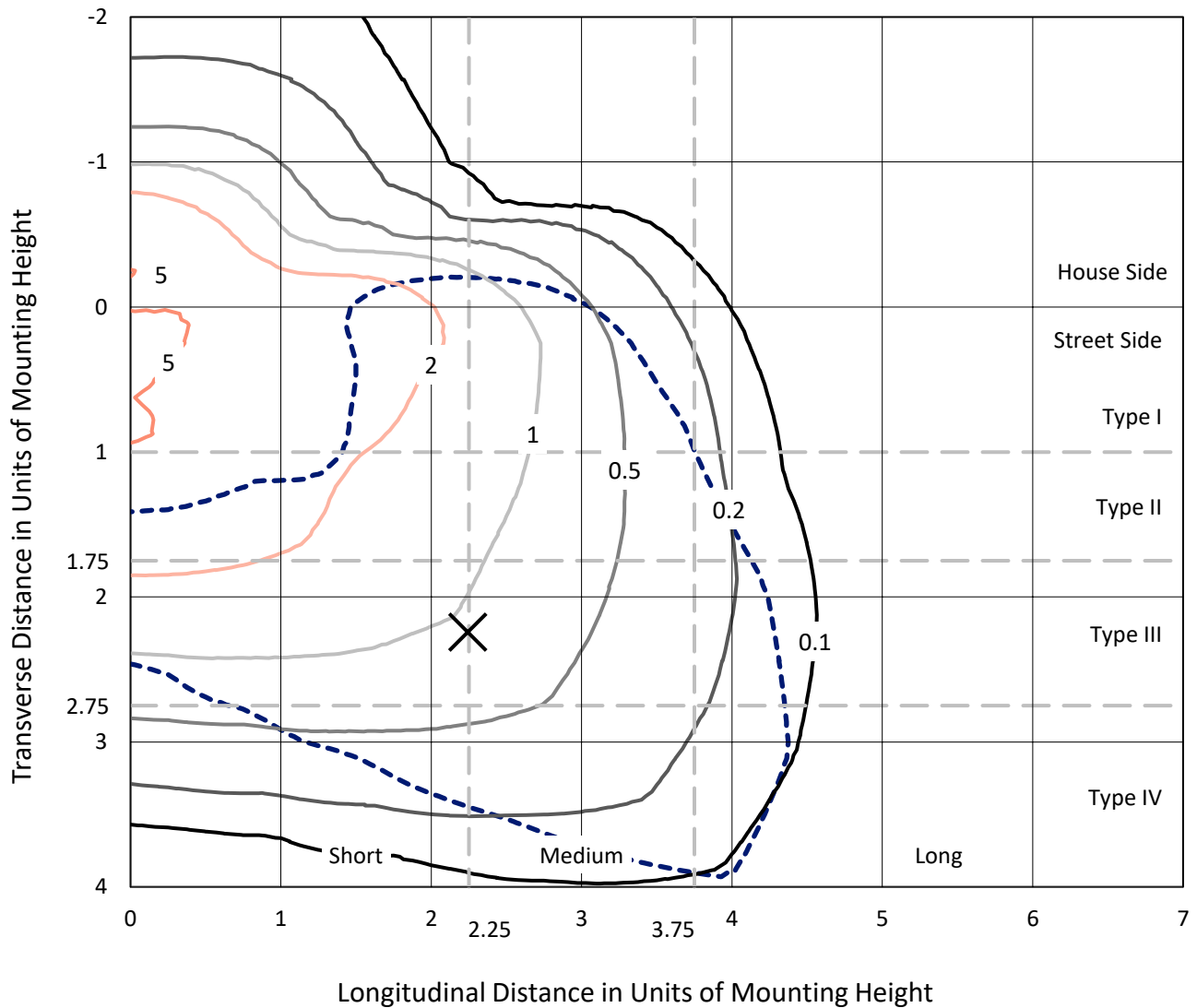
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

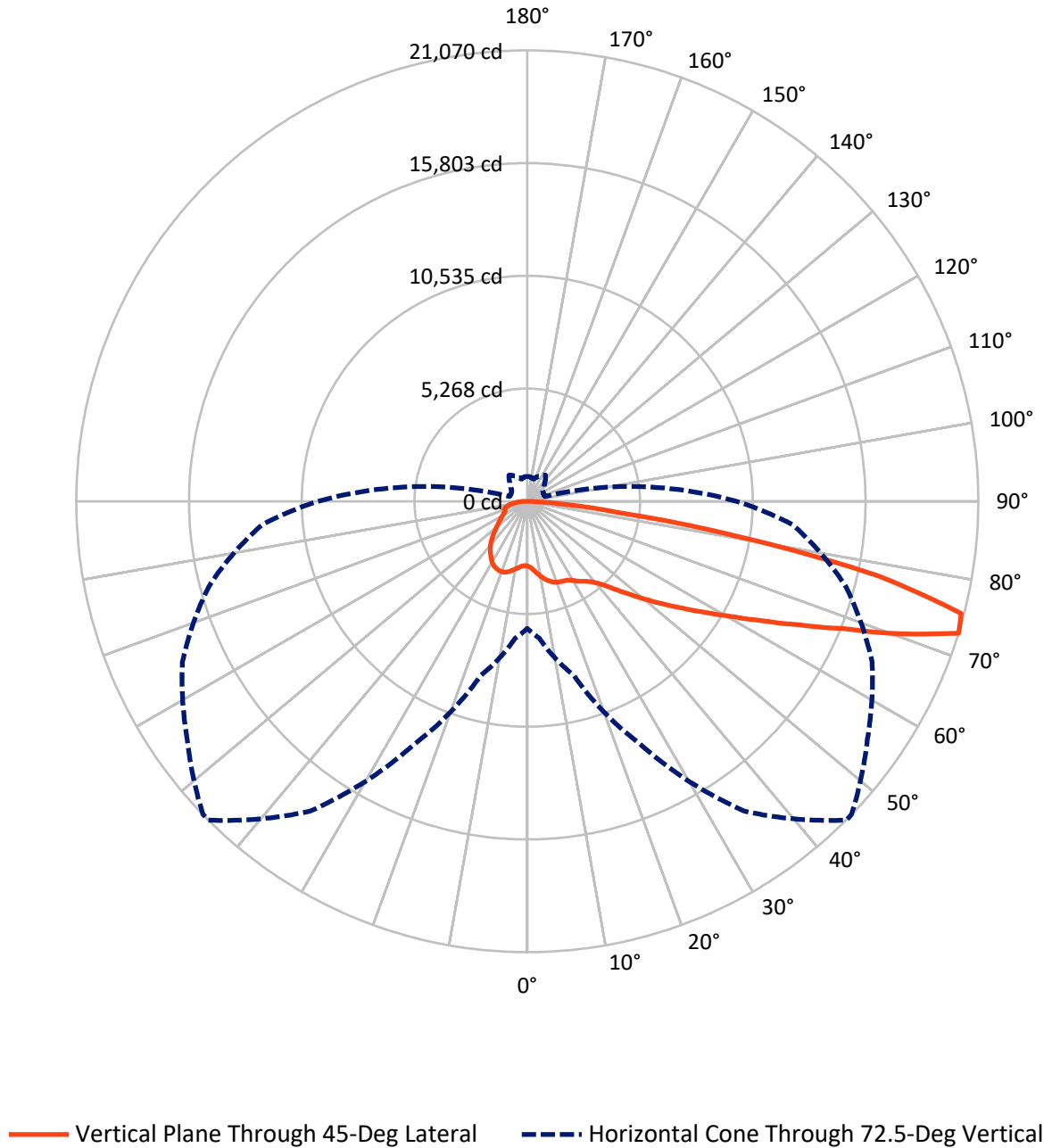
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GALN-SB5B-750-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6789.9 | 0.0 | 6789.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 23245.1 | 0.0 | 23245.1 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 30035.0 | 0.0 | 30035.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 308.4 | 1.0 |
| 10°-20° | 1028.2 | 3.4 |
| 20°-30° | 1788.6 | 6.0 |
| 30°-40° | 2564.1 | 8.5 |
| 40°-50° | 3610.4 | 12.0 |
| 50°-60° | 5530.1 | 18.4 |
| 60°-70° | 8011.1 | 26.7 |
| 70°-80° | 6397.3 | 21.3 |
| 80°-90° | 796.8 | 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° | 30035.0 | 100.0 |
| 0°-180° | 30035.0 | 100.0 |

Coefficient of Utilization



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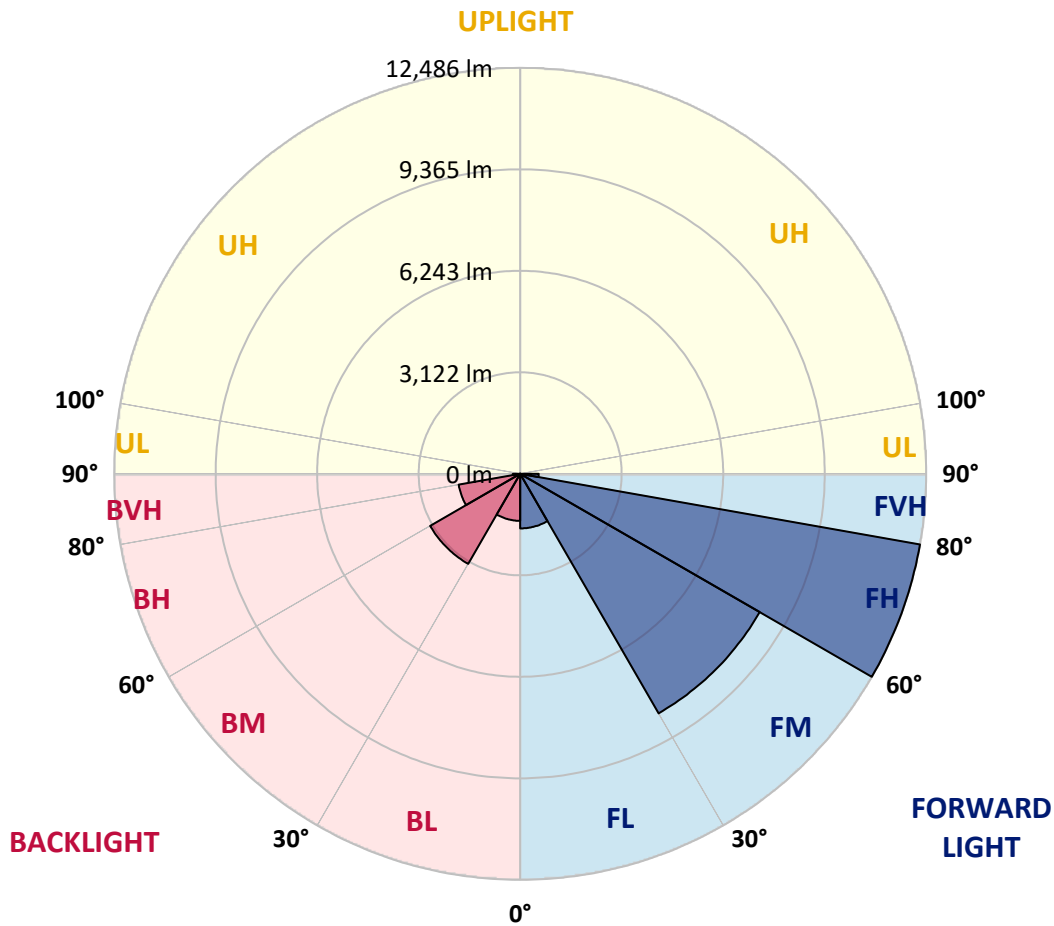
CATALOG NUMBER: GALN-SB5B-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1679.6 | 5.6 | | | |
| FM (30°-60°) | 8507.5 | 28.3 | | | |
| FH (60°-80°) | 12486.4 | 41.6 | | | G5 |
| FVH (80°-90°) | 571.6 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1445.6 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3197.1 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1922.0 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 225.2 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 |
| 2.5° | 3148.6 | 3169.2 | 3150.2 | 3132.8 | 3124.9 | 3104.3 | 3102.7 | 3090.1 | 3082.2 | 3060.0 |
| 5° | 3368.5 | 3395.4 | 3363.8 | 3329.0 | 3297.3 | 3246.7 | 3240.4 | 3204.0 | 3162.9 | 3115.4 |
| 7.5° | 3616.9 | 3640.7 | 3604.3 | 3552.1 | 3496.7 | 3412.8 | 3411.3 | 3344.8 | 3279.9 | 3199.2 |
| 10° | 3833.7 | 3865.4 | 3816.3 | 3745.1 | 3675.5 | 3580.6 | 3569.5 | 3493.5 | 3411.3 | 3306.8 |
| 12.5° | 4025.2 | 4047.3 | 3999.8 | 3912.8 | 3832.1 | 3737.2 | 3723.0 | 3639.1 | 3547.3 | 3428.7 |
| 15° | 4177.1 | 4205.5 | 4142.2 | 4048.9 | 3963.5 | 3870.1 | 3857.4 | 3781.5 | 3689.7 | 3564.7 |
| 17.5° | 4276.7 | 4300.5 | 4235.6 | 4131.2 | 4048.9 | 3971.4 | 3961.9 | 3898.6 | 3817.9 | 3691.3 |
| 20° | 4314.7 | 4340.0 | 4272.0 | 4166.0 | 4090.0 | 4029.9 | 4025.2 | 3979.3 | 3923.9 | 3808.4 |
| 22.5° | 4352.7 | 4376.4 | 4287.8 | 4177.1 | 4110.6 | 4072.6 | 4071.0 | 4041.0 | 4018.8 | 3923.9 |
| 25° | 4506.2 | 4512.5 | 4393.8 | 4234.0 | 4139.1 | 4105.9 | 4104.3 | 4102.7 | 4112.2 | 4037.8 |
| 27.5° | 4639.1 | 4637.5 | 4536.2 | 4385.9 | 4238.8 | 4169.1 | 4167.6 | 4183.4 | 4213.4 | 4151.7 |
| 30° | 4833.7 | 4816.3 | 4696.0 | 4539.4 | 4404.9 | 4297.3 | 4287.8 | 4273.6 | 4297.3 | 4248.3 |
| 32.5° | 5246.6 | 5191.3 | 4996.6 | 4718.2 | 4542.5 | 4460.3 | 4447.6 | 4359.0 | 4368.5 | 4338.4 |
| 35° | 5838.4 | 5765.6 | 5506.1 | 5056.8 | 4713.4 | 4596.3 | 4590.0 | 4477.7 | 4458.7 | 4431.8 |
| 37.5° | 6542.5 | 6452.3 | 6150.1 | 5547.3 | 5007.7 | 4754.6 | 4745.1 | 4643.8 | 4566.3 | 4537.8 |
| 40° | 7249.7 | 7135.8 | 6885.8 | 6145.3 | 5441.2 | 5018.8 | 4988.7 | 4835.3 | 4746.7 | 4699.2 |
| 42.5° | 7936.4 | 7841.5 | 7627.9 | 6816.2 | 5976.0 | 5404.9 | 5338.4 | 5075.8 | 5009.3 | 4965.0 |
| 45° | 8544.0 | 8458.5 | 8301.9 | 7532.9 | 6602.6 | 5930.2 | 5865.3 | 5436.5 | 5415.9 | 5415.9 |
| 47.5° | 9037.6 | 9018.6 | 8852.5 | 8263.9 | 7341.5 | 6528.2 | 6415.9 | 5938.1 | 5993.4 | 6078.9 |
| 50° | 9585.1 | 9532.9 | 9355.7 | 8983.8 | 8210.1 | 7213.3 | 7121.6 | 6553.5 | 6760.8 | 6995.0 |
| 52.5° | 10088.2 | 10116.7 | 9918.9 | 9733.8 | 9191.1 | 7977.5 | 7816.2 | 7279.8 | 7727.6 | 8115.2 |
| 55° | 10605.6 | 10607.2 | 10551.8 | 10526.5 | 10219.5 | 8822.4 | 8645.2 | 8153.2 | 8865.2 | 9346.2 |
| 57.5° | 11091.3 | 11094.5 | 11176.8 | 11399.9 | 11412.5 | 9797.1 | 9596.2 | 9225.9 | 10129.4 | 10619.8 |
| 60° | 11524.9 | 11547.0 | 11771.7 | 12293.8 | 12461.5 | 10914.1 | 10724.3 | 10493.3 | 11436.3 | 11929.9 |
| 62.5° | 11670.4 | 11751.1 | 12251.1 | 12993.2 | 13497.9 | 12284.3 | 12097.6 | 11960.0 | 12809.6 | 13268.5 |
| 65° | 11423.6 | 11608.7 | 12575.5 | 13570.7 | 14564.3 | 13912.4 | 13727.3 | 13577.0 | 14236.8 | 14668.7 |
| 67.5° | 10817.6 | 11056.5 | 12556.5 | 14176.7 | 15858.6 | 15871.2 | 15698.8 | 15345.9 | 15766.8 | 15932.9 |
| 70° | 9221.2 | 9578.7 | 11450.5 | 14402.9 | 17344.3 | 18549.9 | 18383.8 | 17475.6 | 17293.6 | 16489.9 |
| 72.5° | 5941.2 | 6422.2 | 8431.6 | 12540.7 | 17675.0 | 21070.4 | 21060.9 | 19398.0 | 17776.2 | 15407.6 |
| 75° | 2167.6 | 2461.9 | 3917.6 | 7871.5 | 14836.5 | 20942.2 | 21003.9 | 19068.9 | 16227.2 | 11901.4 |
| 77.5° | 789.5 | 863.9 | 1278.4 | 3025.2 | 9124.6 | 16803.2 | 16931.3 | 15244.7 | 11550.2 | 5972.9 |
| 80° | 414.5 | 455.7 | 655.0 | 1174.0 | 3909.7 | 9979.0 | 10180.0 | 9059.8 | 5428.6 | 1799.0 |
| 82.5° | 229.4 | 248.4 | 367.1 | 637.6 | 1761.0 | 4267.2 | 4387.5 | 3579.0 | 1909.7 | 762.6 |
| 85° | 123.4 | 131.3 | 172.5 | 348.1 | 860.7 | 1479.4 | 1512.6 | 1069.6 | 761.0 | 447.8 |
| 87.5° | 36.4 | 44.3 | 57.0 | 110.8 | 337.0 | 332.3 | 340.2 | 212.0 | 300.6 | 226.3 |
| 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-SB5B-750-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3029.9 | 0° | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 | 3029.9 |
| 3053.7 | 2.5° | 3044.2 | 3039.4 | 3022.0 | 3014.1 | 3004.6 | 3003.0 | 3011.0 | 3012.5 | 3014.1 | 3015.7 |
| 3088.5 | 5° | 3072.7 | 3056.8 | 3041.0 | 3031.5 | 3034.7 | 3036.3 | 3052.1 | 3063.2 | 3071.1 | 3077.4 |
| 3153.4 | 7.5° | 3128.0 | 3115.4 | 3088.5 | 3086.9 | 3091.7 | 3105.9 | 3126.5 | 3151.8 | 3166.0 | 3177.1 |
| 3237.2 | 10° | 3210.3 | 3186.6 | 3154.9 | 3159.7 | 3169.2 | 3189.8 | 3232.5 | 3253.0 | 3276.8 | 3297.3 |
| 3340.1 | 12.5° | 3294.2 | 3273.6 | 3237.2 | 3240.4 | 3256.2 | 3292.6 | 3333.7 | 3359.0 | 3374.9 | 3390.7 |
| 3450.8 | 15° | 3403.4 | 3367.0 | 3327.4 | 3327.4 | 3355.9 | 3395.4 | 3414.4 | 3435.0 | 3444.5 | 3461.9 |
| 3569.5 | 17.5° | 3515.7 | 3468.2 | 3416.0 | 3412.8 | 3447.7 | 3466.6 | 3477.7 | 3480.9 | 3484.0 | 3503.0 |
| 3685.0 | 20° | 3628.0 | 3575.8 | 3501.4 | 3495.1 | 3503.0 | 3499.9 | 3498.3 | 3495.1 | 3499.9 | 3523.6 |
| 3803.7 | 22.5° | 3738.8 | 3678.7 | 3575.8 | 3547.3 | 3525.2 | 3495.1 | 3493.5 | 3492.0 | 3495.1 | 3518.9 |
| 3931.8 | 25° | 3868.5 | 3795.7 | 3658.1 | 3572.6 | 3498.3 | 3457.1 | 3461.9 | 3463.5 | 3466.6 | 3485.6 |
| 4064.7 | 27.5° | 4009.3 | 3928.6 | 3734.0 | 3564.7 | 3430.2 | 3401.8 | 3393.9 | 3398.6 | 3409.7 | 3439.7 |
| 4197.6 | 30° | 4150.2 | 4055.2 | 3803.7 | 3533.1 | 3344.8 | 3305.3 | 3279.9 | 3291.0 | 3325.8 | 3355.9 |
| 4313.1 | 32.5° | 4278.3 | 4183.4 | 3859.0 | 3463.5 | 3235.6 | 3173.9 | 3140.7 | 3154.9 | 3189.8 | 3200.8 |
| 4441.3 | 35° | 4428.6 | 4321.0 | 3882.8 | 3352.7 | 3117.0 | 3022.0 | 2977.7 | 2957.2 | 2974.6 | 2963.5 |
| 4591.6 | 37.5° | 4596.3 | 4484.0 | 3879.6 | 3207.2 | 2977.7 | 2868.6 | 2806.9 | 2729.3 | 2692.9 | 2655.0 |
| 4813.1 | 40° | 4844.8 | 4683.4 | 3841.6 | 3031.5 | 2805.3 | 2705.6 | 2594.8 | 2463.5 | 2381.2 | 2306.9 |
| 5170.7 | 42.5° | 5183.3 | 4960.3 | 3772.0 | 2838.5 | 2610.7 | 2517.3 | 2367.0 | 2213.5 | 2083.8 | 1960.4 |
| 5713.4 | 45° | 5688.1 | 5322.6 | 3685.0 | 2632.8 | 2400.2 | 2308.5 | 2145.5 | 1973.0 | 1825.9 | 1667.7 |
| 6483.9 | 47.5° | 6415.9 | 5809.9 | 3602.7 | 2398.6 | 2178.7 | 2094.9 | 1947.7 | 1787.9 | 1613.9 | 1460.4 |
| 7597.8 | 50° | 7415.9 | 6509.2 | 3526.8 | 2170.8 | 1960.4 | 1897.1 | 1780.0 | 1617.0 | 1441.4 | 1318.0 |
| 8903.1 | 52.5° | 8688.0 | 7460.2 | 3495.1 | 1950.9 | 1756.3 | 1732.5 | 1639.2 | 1487.3 | 1321.2 | 1216.7 |
| 10425.2 | 55° | 10148.3 | 8597.8 | 3495.1 | 1740.4 | 1577.5 | 1585.4 | 1520.5 | 1379.7 | 1235.7 | 1142.4 |
| 11994.8 | 57.5° | 11638.8 | 9749.6 | 3431.8 | 1545.8 | 1425.6 | 1458.8 | 1417.7 | 1294.3 | 1164.5 | 1068.0 |
| 13645.0 | 60° | 13012.2 | 10714.8 | 3175.5 | 1368.6 | 1291.1 | 1343.3 | 1316.4 | 1210.4 | 1052.2 | 971.5 |
| 15024.7 | 62.5° | 14067.5 | 11259.1 | 2681.9 | 1227.8 | 1180.3 | 1240.5 | 1226.2 | 1099.6 | 1031.6 | 998.4 |
| 16157.6 | 65° | 14596.0 | 11170.5 | 2050.6 | 1102.8 | 1087.0 | 1180.3 | 1150.3 | 1145.5 | 1091.7 | 1053.8 |
| 16526.3 | 67.5° | 14271.6 | 10407.8 | 1487.3 | 1011.0 | 1033.2 | 1125.0 | 1240.5 | 1259.4 | 1159.8 | 1085.4 |
| 15488.3 | 70° | 12849.2 | 9028.1 | 1107.6 | 924.0 | 965.2 | 1126.5 | 1414.5 | 1318.0 | 1137.6 | 1050.6 |
| 12422.0 | 72.5° | 9774.9 | 6732.3 | 859.1 | 832.2 | 876.5 | 1134.5 | 1492.0 | 1291.1 | 1074.3 | 1161.3 |
| 7738.6 | 75° | 5590.0 | 3696.1 | 689.8 | 719.9 | 765.8 | 1060.1 | 1452.5 | 1221.5 | 1025.3 | 1066.4 |
| 3066.3 | 77.5° | 2131.2 | 1420.8 | 569.6 | 609.2 | 615.5 | 925.6 | 1389.2 | 1216.7 | 976.2 | 952.5 |
| 919.3 | 80° | 738.9 | 555.4 | 471.5 | 484.2 | 476.2 | 822.8 | 1332.2 | 1058.5 | 799.0 | 715.2 |
| 379.7 | 82.5° | 302.2 | 276.9 | 373.4 | 357.6 | 338.6 | 639.2 | 1075.9 | 865.5 | 653.5 | 577.5 |
| 183.5 | 85° | 131.3 | 175.6 | 246.8 | 216.8 | 196.2 | 443.0 | 862.3 | 732.6 | 552.2 | 476.2 |
| 60.1 | 87.5° | 26.9 | 66.5 | 104.4 | 98.1 | 101.3 | 295.9 | 612.3 | 520.5 | 390.8 | 292.7 |
| 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> |
|---------------|
| 3029.9 |
| 3022.0 |
| 3080.6 |
| 3180.3 |
| 3292.6 |
| 3397.0 |
| 3468.2 |
| 3509.4 |
| 3533.1 |
| 3534.7 |
| 3510.9 |
| 3469.8 |
| 3389.1 |
| 3240.4 |
| 2998.3 |
| 2678.7 |
| 2311.6 |
| 1949.3 |
| 1648.7 |
| 1443.0 |
| 1310.1 |
| 1208.8 |
| 1132.9 |
| 1052.2 |
| 958.8 |
| 987.3 |
| 1041.1 |
| 1072.7 |
| 1036.4 |
| <i>1151.9</i> |
| 1066.4 |
| 868.6 |
| 691.4 |
| 571.2 |
| 474.7 |
| 229.4 |
| 0.0 |

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