

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: P949557

Luminaire Tested: **GALN-SB4B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20357 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

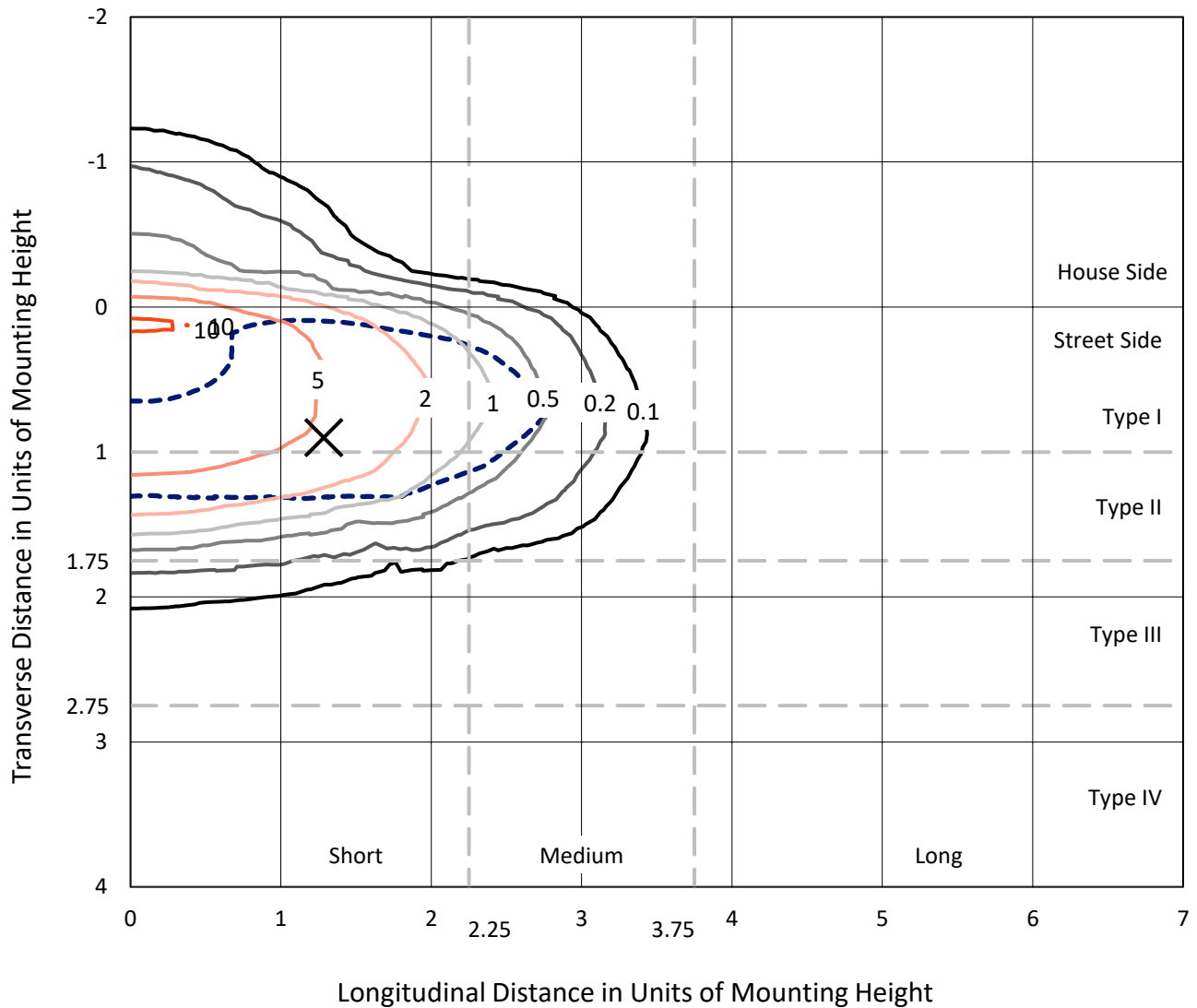
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

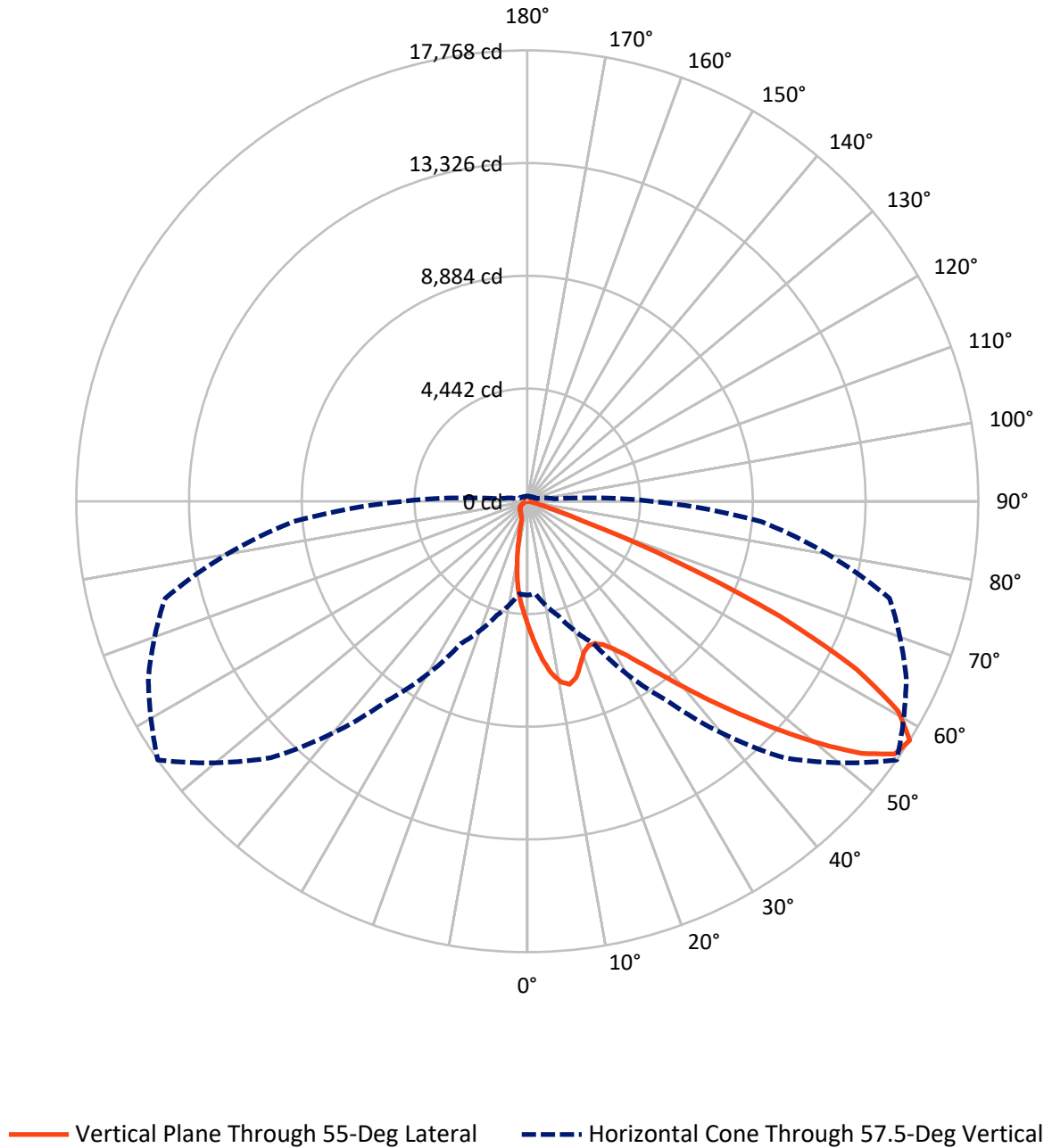
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1589.8 | 0.0 | 1589.8 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 18767.2 | 0.0 | 18767.2 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 20357.0 | 0.0 | 20357.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 456.4 | 2.2 |
| 10°-20° | 1102.5 | 5.4 |
| 20°-30° | 1764.0 | 8.7 |
| 30°-40° | 2985.7 | 14.7 |
| 40°-50° | 4901.9 | 24.1 |
| 50°-60° | 5387.5 | 26.5 |
| 60°-70° | 3090.3 | 15.2 |
| 70°-80° | 631.4 | 3.1 |
| 80°-90° | 37.3 | 0.2 |
| 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° | 20357.0 | 100.0 |
| 0°-180° | 20357.0 | 100.0 |

Coefficient of Utilization



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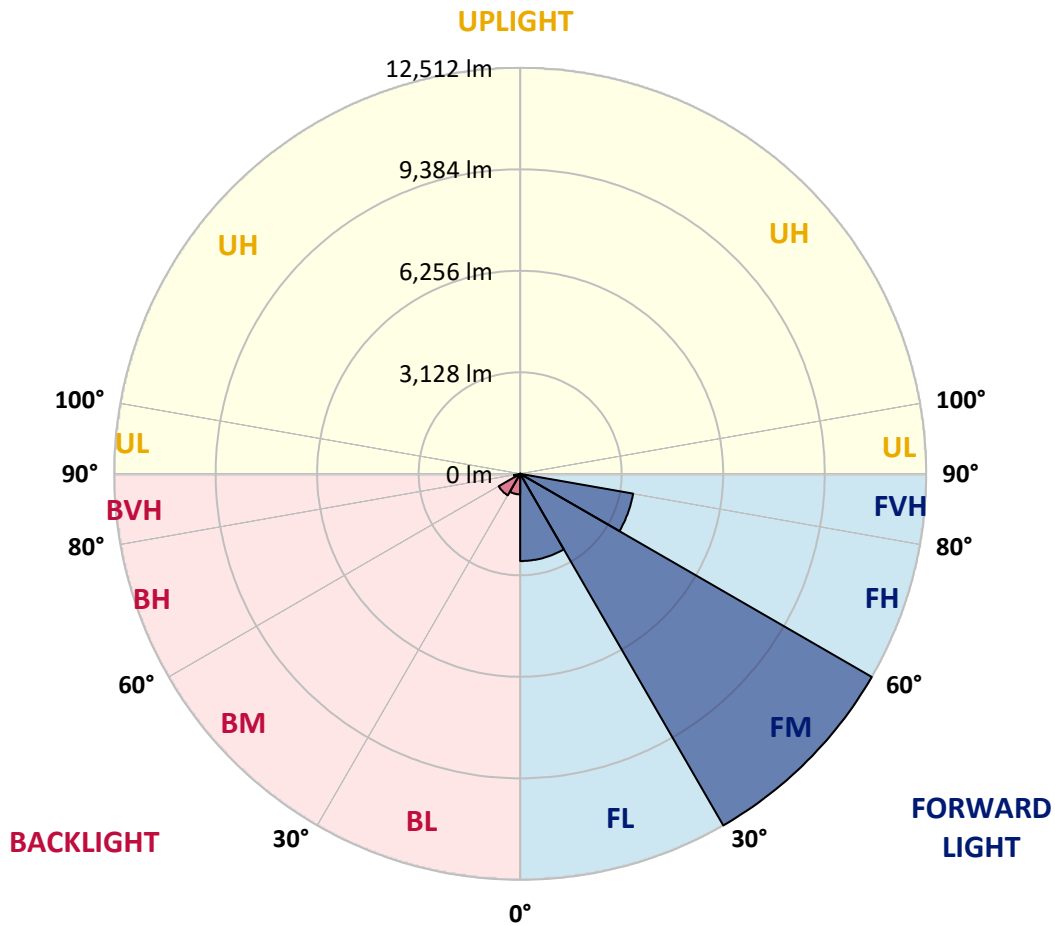
CATALOG NUMBER: GALN-SB4B-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2688.3 | 13.2 | | | |
| FM (30°-60°) | 12511.6 | 61.5 | | | |
| FH (60°-80°) | 3532.6 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 34.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 634.7 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 763.5 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 189.1 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 |
| 2.5° | 6086.7 | 6010.2 | 5998.9 | 5983.8 | 5838.2 | 5729.0 | 5570.8 | 5397.6 | 5203.0 | 5004.7 |
| 5° | 7031.9 | 6971.7 | 6960.4 | 6890.1 | 6724.4 | 6538.6 | 6257.4 | 5902.2 | 5539.4 | 5112.7 |
| 7.5° | 7215.2 | 7203.9 | 7255.4 | 7252.9 | 7230.3 | 7083.4 | 6846.2 | 6423.1 | 5878.4 | 5245.7 |
| 10° | 6398.0 | 6426.9 | 6580.0 | 6714.4 | 7077.1 | 7288.0 | 7236.5 | 6887.6 | 6227.3 | 5397.6 |
| 12.5° | 5653.7 | 5619.8 | 5729.0 | 5880.9 | 6302.6 | 6930.3 | 7398.5 | 7275.5 | 6626.5 | 5569.6 |
| 15° | 5186.7 | 5172.9 | 5234.4 | 5304.7 | 5626.1 | 6258.7 | 7210.2 | 7590.5 | 7010.6 | 5772.9 |
| 17.5° | 5037.3 | 5026.0 | 5044.9 | 5062.4 | 5270.8 | 5760.4 | 6762.1 | 7783.8 | 7378.4 | 6005.1 |
| 20° | 5159.1 | 5144.0 | 5141.5 | 5127.7 | 5214.3 | 5548.2 | 6356.6 | 7797.6 | 7708.5 | 6216.0 |
| 22.5° | 5514.3 | 5496.8 | 5435.3 | 5380.0 | 5387.6 | 5577.1 | 6175.9 | 7659.6 | 7957.1 | 6413.1 |
| 25° | 6158.3 | 6129.4 | 6001.4 | 5815.6 | 5697.6 | 5777.9 | 6203.5 | 7477.6 | 8194.3 | 6567.5 |
| 27.5° | 6964.2 | 6926.5 | 6762.1 | 6485.9 | 6216.0 | 6118.1 | 6403.1 | 7352.0 | 8391.4 | 6685.5 |
| 30° | 7753.7 | 7704.8 | 7542.8 | 7328.2 | 6934.0 | 6625.2 | 6763.3 | 7407.3 | 8626.1 | 6808.5 |
| 32.5° | 8606.0 | 8559.6 | 8344.9 | 8078.8 | 7752.5 | 7337.0 | 7256.6 | 7677.1 | 8913.6 | 6980.5 |
| 35° | 9684.3 | 9611.5 | 9306.5 | 8943.7 | 8597.2 | 8176.7 | 7924.4 | 8142.8 | 9296.4 | 7242.8 |
| 37.5° | 10911.9 | 10814.0 | 10485.1 | 9984.3 | 9532.4 | 9061.7 | 8737.8 | 8783.0 | 9857.5 | 7594.3 |
| 40° | 12069.3 | 11980.2 | 11676.4 | 11204.4 | 10637.0 | 10065.9 | 9720.7 | 9620.3 | 10632.0 | 8022.3 |
| 42.5° | 12763.4 | 12683.1 | 12555.1 | 12355.5 | 11877.2 | 11294.8 | 10859.2 | 10642.0 | 11548.3 | 8534.5 |
| 45° | 12802.3 | 12732.0 | 12904.0 | 13136.2 | 13042.1 | 12654.2 | 12123.2 | 11725.3 | 12468.4 | 9015.2 |
| 47.5° | 12179.7 | 12132.0 | 12654.2 | 13465.1 | 13869.3 | 14032.5 | 13542.9 | 12718.2 | 13227.9 | 9360.4 |
| 50° | 10482.6 | 10465.1 | 11539.6 | 13028.3 | 14184.4 | 15240.0 | 15040.5 | 13642.1 | 13816.6 | 9538.7 |
| 52.5° | 9089.3 | 9025.3 | 9651.7 | 11629.9 | 13726.2 | 15875.2 | 16504.1 | 14548.4 | 14228.3 | 9572.6 |
| 55° | 6893.9 | 6837.4 | 7623.2 | 9290.1 | 12248.8 | 15649.3 | 17574.8 | 15483.6 | 14523.3 | 9486.0 |
| 57.5° | 3698.0 | 3662.8 | 4655.7 | 6183.4 | 9575.1 | 14293.6 | 17768.1 | 16472.7 | 14771.8 | 9256.2 |
| 60° | 1439.8 | 1433.5 | 1805.1 | 3000.1 | 5819.4 | 11628.7 | 16792.8 | 17066.4 | 14927.5 | 8973.8 |
| 62.5° | 871.1 | 890.0 | 950.2 | 1346.9 | 2570.8 | 7224.0 | 14544.6 | 16391.1 | 15031.7 | 8715.2 |
| 65° | 720.5 | 721.8 | 729.3 | 925.1 | 1231.4 | 3022.7 | 10949.6 | 14169.3 | 14774.3 | 8254.6 |
| 67.5° | 617.6 | 628.9 | 657.8 | 734.3 | 868.6 | 1325.5 | 6303.9 | 10975.9 | 13209.0 | 7182.6 |
| 70° | 487.0 | 502.1 | 538.5 | 603.8 | 670.3 | 829.7 | 2329.8 | 7303.1 | 10091.0 | 5413.9 |
| 72.5° | 410.5 | 409.2 | 428.0 | 490.8 | 532.2 | 583.7 | 896.3 | 4092.1 | 5864.5 | 2584.6 |
| 75° | 317.6 | 330.1 | 354.0 | 410.5 | 435.6 | 423.0 | 485.8 | 1495.0 | 2101.3 | 783.3 |
| 77.5° | 248.5 | 258.6 | 279.9 | 335.2 | 360.3 | 300.0 | 279.9 | 534.7 | 675.3 | 281.2 |
| 80° | 111.7 | 120.5 | 190.8 | 247.3 | 293.7 | 207.1 | 151.9 | 273.6 | 300.0 | 128.0 |
| 82.5° | 20.1 | 33.9 | 111.7 | 130.5 | 150.6 | 134.3 | 79.1 | 141.8 | 146.9 | 51.5 |
| 85° | 1.3 | 2.5 | 38.9 | 47.7 | 60.3 | 43.9 | 23.8 | 56.5 | 49.0 | 17.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 6.3 | 7.5 | 10.0 | 7.5 | 6.3 |
| 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-SB4B-740-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4905.5 | 0° | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 | 4905.5 |
| 4916.8 | 2.5° | 4826.5 | 4648.2 | 4475.0 | 4333.1 | 4250.3 | 4109.7 | 4016.8 | 4001.8 | 3962.8 | 3996.7 |
| 4929.4 | 5° | 4733.6 | 4414.7 | 4092.1 | 3803.4 | 3566.2 | 3259.9 | 3031.4 | 2934.8 | 2850.7 | 2879.6 |
| 4962.0 | 7.5° | 4689.6 | 4186.3 | 3684.2 | 3190.9 | 2683.7 | 2194.2 | 1830.2 | 1678.3 | 1562.8 | 1579.1 |
| 4998.4 | 10° | 4630.6 | 3949.0 | 3162.0 | 2408.8 | 1729.7 | 1246.5 | 995.4 | 902.5 | 851.1 | 852.3 |
| 5052.4 | 12.5° | 4585.4 | 3665.3 | 2555.7 | 1633.1 | 1053.2 | 795.8 | 718.0 | 695.4 | 680.3 | 681.6 |
| 5134.0 | 15° | 4562.9 | 3331.4 | 1956.9 | 1088.3 | 753.2 | 674.1 | 655.2 | 645.2 | 635.2 | 633.9 |
| 5224.4 | 17.5° | 4525.2 | 2959.9 | 1432.2 | 794.6 | 659.0 | 631.4 | 615.1 | 603.8 | 591.2 | 588.7 |
| 5302.2 | 20° | 4468.7 | 2538.1 | 1046.9 | 671.6 | 617.6 | 596.2 | 573.7 | 558.6 | 543.5 | 541.0 |
| 5351.2 | 22.5° | 4364.5 | 2092.5 | 804.6 | 621.4 | 587.5 | 563.6 | 536.0 | 518.4 | 503.4 | 500.8 |
| 5327.3 | 25° | 4171.2 | 1674.5 | 677.8 | 590.0 | 561.1 | 532.2 | 502.1 | 478.3 | 464.4 | 461.9 |
| 5275.8 | 27.5° | 3926.4 | 1315.5 | 615.1 | 561.1 | 527.2 | 500.8 | 467.0 | 444.4 | 431.8 | 429.3 |
| 5208.1 | 30° | 3637.7 | 1013.0 | 578.7 | 528.5 | 487.0 | 464.4 | 434.3 | 415.5 | 408.0 | 408.0 |
| 5160.4 | 32.5° | 3326.4 | 809.6 | 563.6 | 495.8 | 451.9 | 426.8 | 402.9 | 395.4 | 392.9 | 391.6 |
| 5186.7 | 35° | 3034.0 | 702.9 | 556.1 | 469.5 | 420.5 | 396.7 | 386.6 | 387.9 | 392.9 | 392.9 |
| 5268.3 | 37.5° | 2774.1 | 669.1 | 552.3 | 450.6 | 392.9 | 371.6 | 377.8 | 389.1 | 384.1 | 384.1 |
| 5411.4 | 40° | 2539.4 | 672.8 | 549.8 | 436.8 | 370.3 | 357.7 | 370.3 | 361.5 | 349.0 | 347.7 |
| 5585.9 | 42.5° | 2359.9 | 704.2 | 544.8 | 425.5 | 356.5 | 347.7 | 342.7 | 328.9 | 327.6 | 330.1 |
| 5766.6 | 45° | 2229.3 | 731.8 | 543.5 | 420.5 | 341.4 | 325.1 | 318.8 | 305.0 | 330.1 | 336.4 |
| 5840.7 | 47.5° | 2074.9 | 731.8 | 543.5 | 402.9 | 316.3 | 310.0 | 300.0 | 284.9 | 310.0 | 316.3 |
| 5770.4 | 50° | 1875.4 | 685.4 | 522.2 | 382.9 | 296.2 | 292.5 | 274.9 | 256.1 | 251.1 | 254.8 |
| 5606.0 | 52.5° | 1623.0 | 601.3 | 468.2 | 355.2 | 276.2 | 268.6 | 247.3 | 233.5 | 229.7 | 229.7 |
| 5311.0 | 55° | 1335.6 | 503.4 | 395.4 | 315.1 | 254.8 | 241.0 | 225.9 | 219.7 | 215.9 | 213.4 |
| 4898.0 | 57.5° | 1085.8 | 413.0 | 317.6 | 279.9 | 234.7 | 217.2 | 212.1 | 204.6 | 198.3 | 194.6 |
| 4552.8 | 60° | 891.2 | 325.1 | 262.3 | 248.5 | 214.6 | 198.3 | 197.1 | 187.0 | 170.7 | 168.2 |
| 4267.9 | 62.5° | 687.9 | 238.5 | 220.9 | 215.9 | 194.6 | 180.8 | 178.2 | 158.2 | 133.1 | 128.0 |
| 3863.7 | 65° | 485.8 | 185.8 | 178.2 | 189.5 | 173.2 | 160.7 | 154.4 | 124.3 | 97.9 | 94.1 |
| 3233.5 | 67.5° | 341.4 | 155.7 | 140.6 | 165.7 | 150.6 | 134.3 | 130.5 | 105.4 | 81.6 | 79.1 |
| 2445.2 | 70° | 243.5 | 126.8 | 115.5 | 141.8 | 120.5 | 118.0 | 110.5 | 87.9 | 66.5 | 64.0 |
| 1210.1 | 72.5° | 172.0 | 96.7 | 89.1 | 123.0 | 82.8 | 101.7 | 90.4 | 67.8 | 50.2 | 47.7 |
| 411.7 | 75° | 126.8 | 69.0 | 62.8 | 71.5 | 60.3 | 76.6 | 64.0 | 45.2 | 31.4 | 30.1 |
| 185.8 | 77.5° | 92.9 | 43.9 | 37.7 | 35.1 | 35.1 | 47.7 | 35.1 | 18.8 | 13.8 | 12.6 |
| 94.1 | 80° | 65.3 | 20.1 | 17.6 | 15.1 | 13.8 | 11.3 | 5.0 | 2.5 | 1.3 | 1.3 |
| 32.6 | 82.5° | 38.9 | 8.8 | 8.8 | 6.3 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.6 | 85° | 8.8 | 3.8 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.0 | 87.5° | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF RI

