

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: P946210

Luminaire Tested: **GALN-SB1D-935-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-935-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

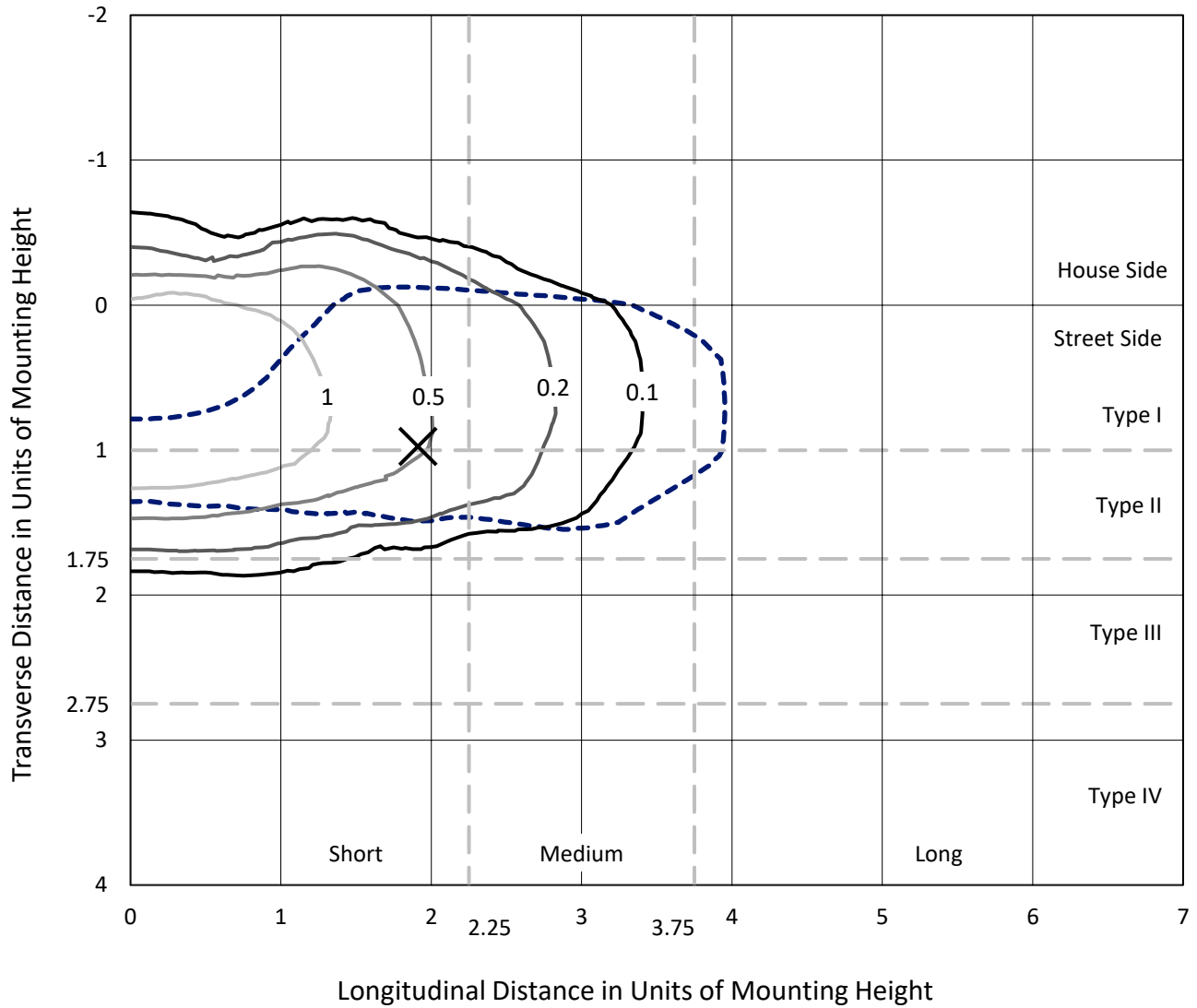
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

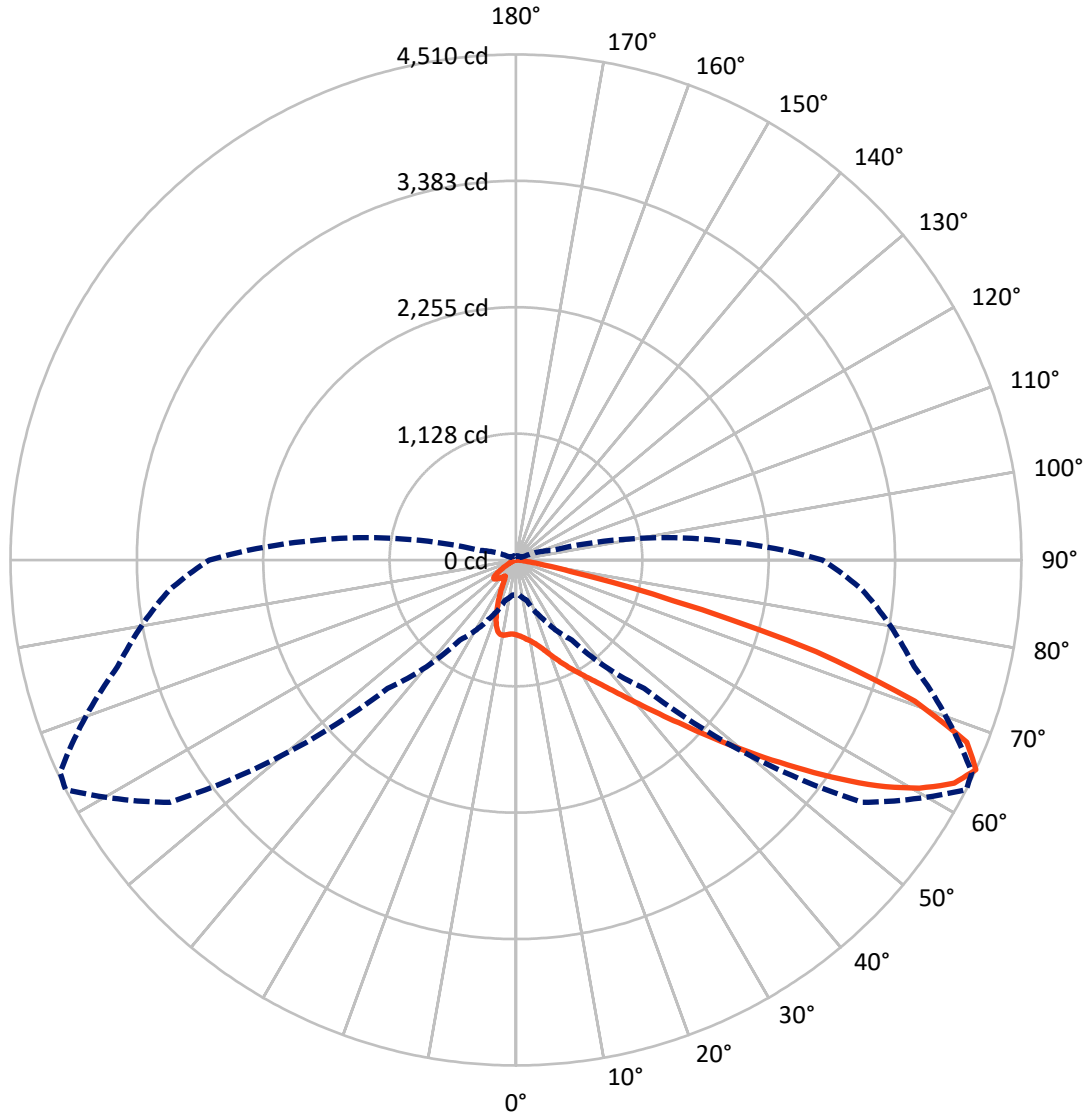
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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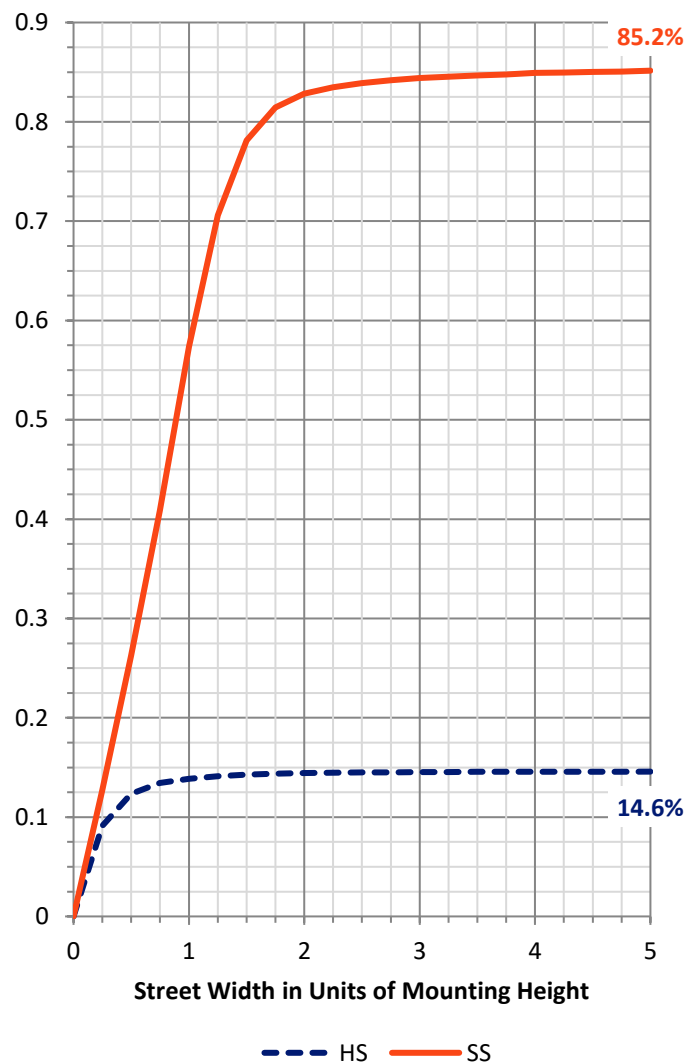
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 795.5 | 0.0 | 795.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 4616.5 | 0.0 | 4616.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 5412.0 | 0.0 | 5412.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.9 | 1.2 |
| 10°-20° | 174.6 | 3.2 |
| 20°-30° | 304.0 | 5.6 |
| 30°-40° | 548.0 | 10.1 |
| 40°-50° | 1086.9 | 20.1 |
| 50°-60° | 1480.5 | 27.4 |
| 60°-70° | 1181.8 | 21.8 |
| 70°-80° | 534.8 | 9.9 |
| 80°-90° | 38.4 | 0.7 |
| 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° | 5412.0 | 100.0 |
| 0°-180° | 5412.0 | 100.0 |

Coefficient of Utilization

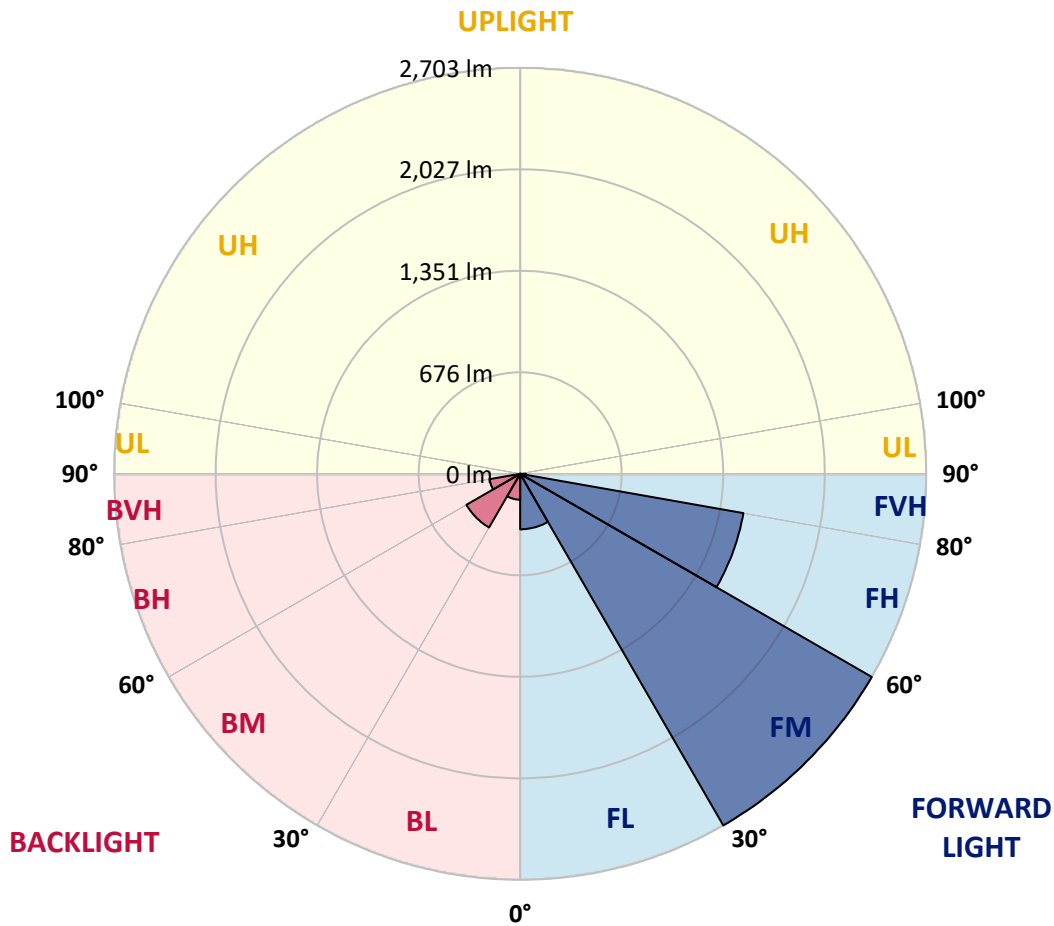


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 369.4 | 6.8 | | | |
| FM (30°-60°) | 2702.6 | 49.9 | | | |
| FH (60°-80°) | 1508.8 | 27.9 | | | G1/1800 |
| FVH (80°-90°) | 35.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 172.2 | 3.2 | B1/500 | | |
| BM (30°-60°) | 412.8 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 207.7 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 |
| 2.5° | 683.6 | 681.7 | 684.3 | 683.2 | 682.5 | 681.0 | 680.2 | 679.5 | 678.0 | 676.9 |
| 5° | 685.4 | 684.3 | 686.9 | 689.2 | 691.4 | 693.6 | 694.8 | 696.2 | 694.8 | 691.8 |
| 7.5° | 669.8 | 669.1 | 674.6 | 681.3 | 691.4 | 700.0 | 709.3 | 714.5 | 714.9 | 713.7 |
| 10° | 668.7 | 666.8 | 672.4 | 680.6 | 693.6 | 708.9 | 725.3 | 736.5 | 737.9 | 742.8 |
| 12.5° | 686.2 | 684.3 | 692.1 | 701.1 | 714.5 | 730.5 | 750.6 | 766.2 | 768.5 | 775.2 |
| 15° | 715.6 | 713.0 | 721.9 | 733.5 | 750.6 | 768.8 | 790.1 | 804.2 | 806.1 | 814.3 |
| 17.5° | 749.9 | 747.2 | 757.7 | 770.0 | 788.6 | 813.5 | 838.1 | 853.7 | 856.0 | 861.2 |
| 20° | 793.8 | 790.4 | 798.6 | 809.8 | 829.5 | 859.3 | 888.7 | 911.1 | 910.7 | 910.7 |
| 22.5° | 844.8 | 839.6 | 846.7 | 855.6 | 874.2 | 910.3 | 949.4 | 975.9 | 975.9 | 965.4 |
| 25° | 899.5 | 894.3 | 902.1 | 910.3 | 926.7 | 967.7 | 1013.5 | 1046.2 | 1047.7 | 1029.8 |
| 27.5° | 968.0 | 961.3 | 967.3 | 977.0 | 986.6 | 1028.3 | 1082.7 | 1120.7 | 1121.4 | 1093.9 |
| 30° | 1099.8 | 1080.8 | 1062.2 | 1051.8 | 1056.3 | 1097.6 | 1155.7 | 1197.8 | 1201.5 | 1163.5 |
| 32.5° | 1341.1 | 1337.4 | 1271.8 | 1186.2 | 1141.5 | 1172.1 | 1237.2 | 1287.9 | 1290.1 | 1241.3 |
| 35° | 1716.0 | 1711.6 | 1606.2 | 1443.1 | 1297.5 | 1271.8 | 1336.3 | 1396.2 | 1394.7 | 1339.6 |
| 37.5° | 2163.6 | 2159.5 | 2020.6 | 1802.4 | 1566.7 | 1422.6 | 1464.0 | 1526.9 | 1536.2 | 1464.0 |
| 40° | 2545.9 | 2530.7 | 2442.8 | 2232.4 | 1924.2 | 1672.8 | 1645.7 | 1687.4 | 1697.0 | 1611.4 |
| 42.5° | 2835.6 | 2822.6 | 2777.9 | 2646.5 | 2356.8 | 2042.9 | 1859.7 | 1875.8 | 1886.5 | 1783.8 |
| 45° | 2985.6 | 2982.7 | 3000.5 | 2988.2 | 2797.6 | 2497.2 | 2165.8 | 2099.1 | 2103.2 | 1974.8 |
| 47.5° | 3006.9 | 3005.4 | 3086.9 | 3202.3 | 3176.6 | 3009.5 | 2558.6 | 2377.6 | 2363.1 | 2190.4 |
| 50° | 2881.8 | 2878.8 | 3035.2 | 3251.5 | 3429.8 | 3439.9 | 3004.6 | 2691.5 | 2659.5 | 2413.4 |
| 52.5° | 2482.3 | 2481.5 | 2738.4 | 3098.5 | 3518.8 | 3816.7 | 3445.5 | 3036.3 | 2982.7 | 2649.4 |
| 55° | 1910.0 | 1923.8 | 2218.3 | 2643.8 | 3356.5 | 3998.0 | 3841.2 | 3419.0 | 3336.7 | 2887.0 |
| 57.5° | 1353.0 | 1373.1 | 1664.3 | 2043.3 | 2853.1 | 3890.7 | 4108.9 | 3802.5 | 3713.9 | 3123.8 |
| 60° | 726.8 | 744.6 | 1036.2 | 1488.5 | 2122.6 | 3490.9 | 4250.0 | 4135.4 | 4051.6 | 3348.7 |
| 62.5° | 433.0 | 439.0 | 559.6 | 961.0 | 1435.7 | 2666.9 | 4190.1 | 4388.9 | 4320.0 | 3537.4 |
| 65° | 310.9 | 312.0 | 372.7 | 586.8 | 871.6 | 1620.3 | 3769.7 | 4510.3 | 4489.1 | 3679.6 |
| 67.5° | 261.7 | 261.0 | 286.3 | 389.8 | 593.9 | 811.7 | 2889.2 | 4338.7 | 4428.8 | 3769.7 |
| 70° | 224.5 | 225.6 | 255.4 | 285.6 | 446.4 | 459.4 | 1436.4 | 3777.6 | 3969.7 | 3793.6 |
| 72.5° | 167.2 | 170.9 | 198.4 | 260.3 | 337.0 | 316.1 | 495.9 | 2801.0 | 3148.3 | 3574.3 |
| 75° | 118.0 | 119.9 | 139.6 | 218.9 | 251.3 | 230.1 | 253.2 | 1448.0 | 1893.2 | 2740.3 |
| 77.5° | 90.8 | 94.2 | 105.7 | 153.0 | 247.6 | 161.6 | 154.9 | 501.1 | 770.0 | 1655.3 |
| 80° | 49.1 | 55.1 | 76.3 | 110.6 | 173.9 | 114.3 | 76.7 | 199.6 | 261.0 | 774.1 |
| 82.5° | 25.3 | 28.3 | 53.2 | 79.7 | 99.0 | 99.8 | 38.0 | 83.0 | 107.6 | 239.0 |
| 85° | 10.1 | 12.3 | 35.7 | 43.9 | 51.0 | 49.1 | 17.1 | 33.5 | 38.7 | 66.3 |
| 87.5° | 2.2 | 3.7 | 13.0 | 10.1 | 9.7 | 10.4 | 4.1 | 7.8 | 7.4 | 7.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P946210
 CATALOG NUMBER: GALN-SB1D-935-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 667.9 | 0° | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 |
| 672.4 | 2.5° | 672.0 | 670.5 | 666.5 | 662.0 | 656.8 | 653.8 | 651.9 | 651.6 | 649.0 | 647.1 |
| 687.3 | 5° | 683.2 | 681.7 | 673.9 | 664.6 | 654.5 | 646.7 | 639.3 | 632.6 | 622.9 | 621.0 |
| 708.9 | 7.5° | 705.5 | 701.5 | 688.8 | 676.1 | 657.1 | 634.4 | 606.9 | 575.2 | 546.9 | 538.4 |
| 737.6 | 10° | 733.1 | 727.5 | 711.5 | 689.2 | 647.1 | 585.3 | 518.6 | 456.8 | 407.7 | 393.9 |
| 771.4 | 12.5° | 764.4 | 759.5 | 738.3 | 697.0 | 605.0 | 493.0 | 390.9 | 314.2 | 266.6 | 254.7 |
| 807.6 | 15° | 801.6 | 794.5 | 765.1 | 685.1 | 529.8 | 374.6 | 268.4 | 223.0 | 205.9 | 203.7 |
| 848.9 | 17.5° | 841.1 | 829.5 | 788.9 | 642.3 | 428.5 | 266.2 | 207.4 | 194.4 | 186.9 | 184.7 |
| 890.6 | 20° | 877.2 | 862.3 | 803.1 | 577.5 | 320.2 | 207.4 | 185.8 | 177.2 | 170.5 | 167.9 |
| 932.3 | 22.5° | 913.3 | 892.1 | 803.1 | 489.2 | 240.1 | 183.9 | 170.5 | 162.7 | 154.9 | 151.5 |
| 977.0 | 25° | 950.9 | 922.6 | 788.9 | 390.9 | 193.2 | 168.7 | 156.0 | 147.4 | 140.7 | 136.6 |
| 1019.4 | 27.5° | 987.4 | 948.3 | 756.6 | 297.9 | 172.0 | 155.3 | 142.6 | 134.4 | 128.1 | 125.1 |
| 1065.6 | 30° | 1022.0 | 973.6 | 711.1 | 226.0 | 158.2 | 142.2 | 130.3 | 123.2 | 116.9 | 113.9 |
| 1125.5 | 32.5° | 1068.9 | 1005.6 | 662.7 | 185.4 | 146.3 | 129.9 | 119.1 | 112.4 | 106.9 | 104.6 |
| 1203.3 | 35° | 1134.1 | 1052.9 | 621.0 | 182.1 | 136.3 | 119.9 | 109.1 | 102.8 | 97.2 | 95.3 |
| 1303.9 | 37.5° | 1226.4 | 1129.2 | 599.1 | 204.4 | 128.1 | 111.0 | 100.9 | 94.2 | 89.0 | 87.5 |
| 1431.6 | 40° | 1340.4 | 1232.8 | 611.0 | 226.7 | 122.5 | 103.1 | 93.5 | 86.8 | 82.3 | 80.4 |
| 1578.3 | 42.5° | 1475.5 | 1360.5 | 676.9 | 243.9 | 118.8 | 96.4 | 86.4 | 78.9 | 76.0 | 75.2 |
| 1744.7 | 45° | 1630.8 | 1500.8 | 777.8 | 262.1 | 112.8 | 90.1 | 79.3 | 73.7 | 71.5 | 71.1 |
| 1925.6 | 47.5° | 1807.2 | 1655.0 | 894.7 | 284.8 | 106.9 | 84.1 | 73.7 | 70.0 | 68.1 | 67.4 |
| 2114.4 | 50° | 1982.2 | 1810.2 | 1014.9 | 297.5 | 102.0 | 78.6 | 69.3 | 66.3 | 64.8 | 64.4 |
| 2314.0 | 52.5° | 2165.4 | 1969.9 | 1112.1 | 285.6 | 97.9 | 74.1 | 65.5 | 63.3 | 61.8 | 61.4 |
| 2497.9 | 55° | 2340.0 | 2099.1 | 1128.9 | 242.4 | 89.7 | 69.6 | 61.4 | 60.3 | 58.5 | 58.5 |
| 2684.4 | 57.5° | 2490.5 | 2163.9 | 1010.5 | 178.0 | 81.5 | 62.9 | 57.3 | 56.2 | 54.7 | 54.4 |
| 2852.7 | 60° | 2628.6 | 2145.3 | 780.0 | 119.9 | 72.6 | 56.2 | 52.1 | 51.4 | 49.9 | 48.0 |
| 2999.0 | 62.5° | 2706.4 | 2063.4 | 533.5 | 78.2 | 63.7 | 49.1 | 46.2 | 45.8 | 42.4 | 38.7 |
| 3107.4 | 65° | 2735.8 | 1895.1 | 332.9 | 57.0 | 53.2 | 42.1 | 39.8 | 39.1 | 34.3 | 30.2 |
| 3168.8 | 67.5° | 2710.1 | 1618.1 | 167.9 | 45.1 | 42.1 | 35.0 | 32.8 | 32.8 | 29.4 | 25.7 |
| 3165.1 | 70° | 2607.4 | 1213.0 | 70.7 | 36.1 | 32.4 | 26.8 | 26.8 | 28.3 | 24.9 | 20.8 |
| 3000.9 | 72.5° | 2384.3 | 816.1 | 37.6 | 27.6 | 24.2 | 19.0 | 22.0 | 23.1 | 19.7 | 15.6 |
| 2456.2 | 75° | 1895.5 | 497.8 | 26.1 | 20.5 | 15.3 | 13.4 | 16.8 | 17.5 | 13.4 | 10.4 |
| 1684.0 | 77.5° | 1296.4 | 285.9 | 17.5 | 13.0 | 9.7 | 7.8 | 11.5 | 10.8 | 7.1 | 4.8 |
| 649.3 | 80° | 569.3 | 119.1 | 10.1 | 6.0 | 3.7 | 3.0 | 4.1 | 3.0 | 2.2 | 1.5 |
| 89.0 | 82.5° | 66.6 | 27.9 | 3.7 | 2.2 | 1.5 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 |
| 27.2 | 85° | 13.8 | 3.4 | 1.9 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.8 | 87.5° | 2.6 | 0.7 | 0.4 | 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 |

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|-------------|
| <u>180°</u> |
| 667.9 |
| 649.0 |
| 620.3 |
| 534.3 |
| 388.7 |
| 251.3 |
| 201.4 |
| 183.6 |
| 166.4 |
| 149.7 |
| 135.2 |
| 125.1 |
| 114.3 |
| 104.6 |
| 95.3 |
| 87.1 |
| 80.0 |
| 75.2 |
| 70.7 |
| 67.4 |
| 64.4 |
| 61.4 |
| 58.1 |
| 54.0 |
| 47.7 |
| 38.0 |
| 29.8 |
| 25.3 |
| 20.5 |
| 15.6 |
| 10.1 |
| 5.2 |
| 1.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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