

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: P951905

Luminaire Tested: **GALN-SB5D-930-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-930-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27545 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

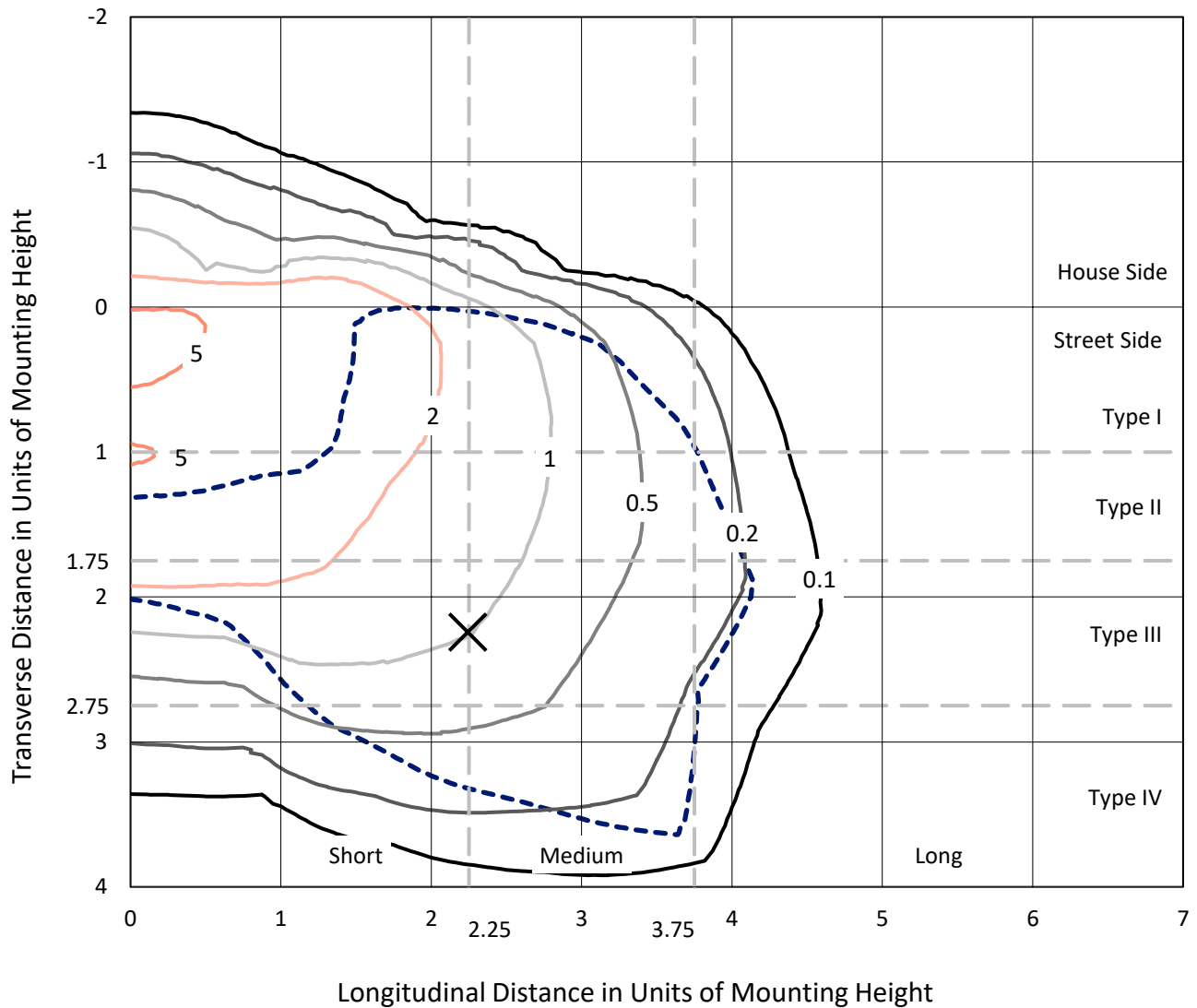
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

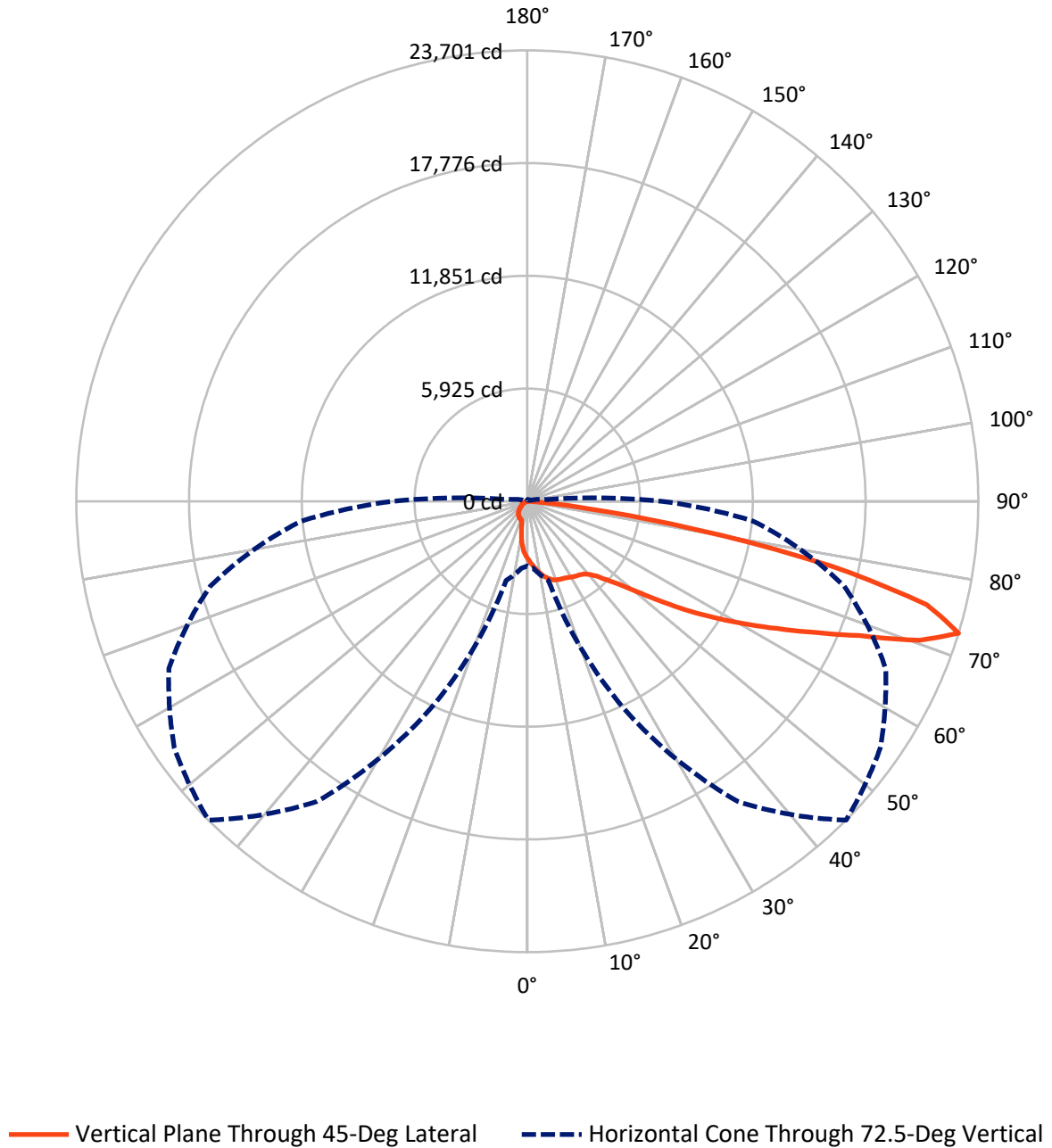
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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 | 2894.2 | 0.0 | 2894.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 24650.8 | 0.0 | 24650.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 27545.0 | 0.0 | 27545.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.3 | 1.0 |
| 10°-20° | 830.9 | 3.0 |
| 20°-30° | 1364.5 | 5.0 |
| 30°-40° | 1935.2 | 7.0 |
| 40°-50° | 3198.8 | 11.6 |
| 50°-60° | 5746.2 | 20.9 |
| 60°-70° | 7978.9 | 29.0 |
| 70°-80° | 5787.7 | 21.0 |
| 80°-90° | 418.4 | 1.5 |
| 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° | 27545.0 | 100.0 |
| 0°-180° | 27545.0 | 100.0 |

Coefficient of Utilization



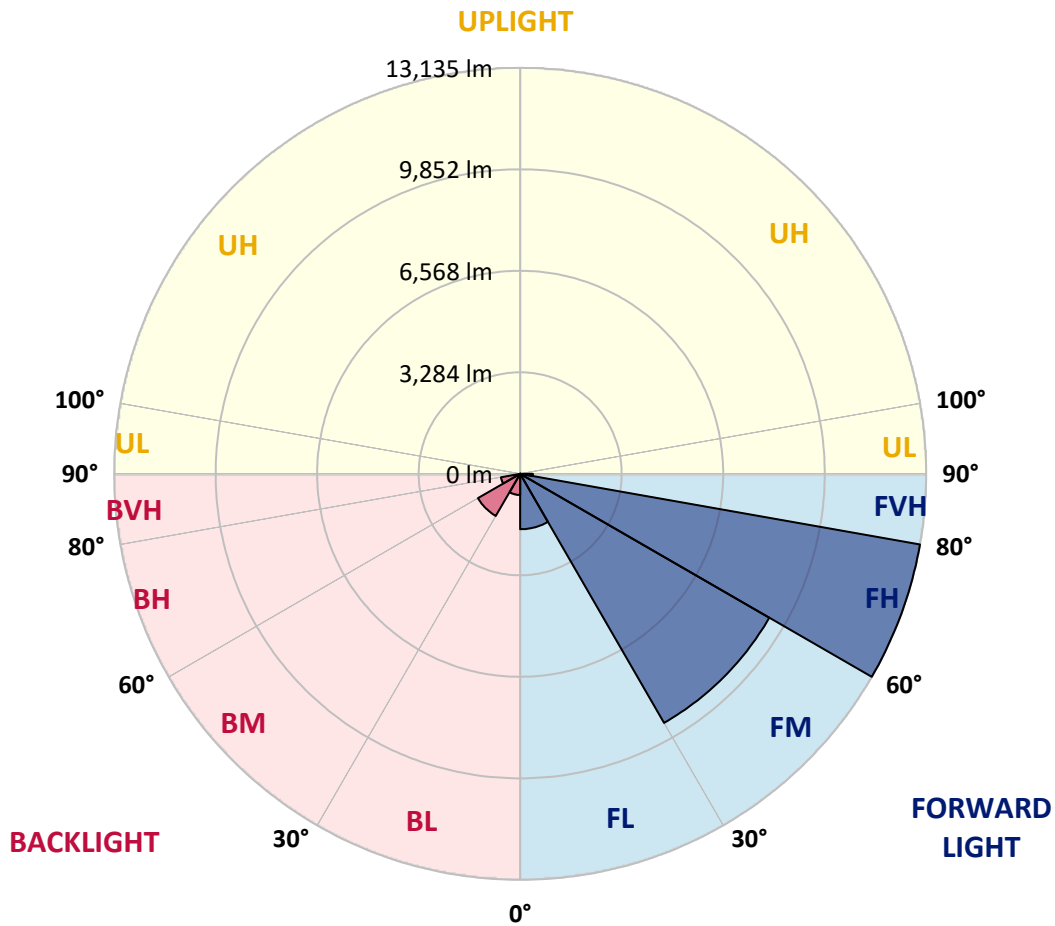
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1794.3 | 6.5 | | | |
| FM (30°-60°) | 9306.2 | 33.8 | | | |
| FH (60°-80°) | 13135.4 | 47.7 | | | G5 |
| FVH (80°-90°) | 414.9 | 1.5 | | | G3/500 |
| BL (0°-30°) | 685.5 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1574.0 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 631.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.5 | 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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 |
| 2.5° | 3295.9 | 3301.5 | 3297.8 | 3275.2 | 3237.6 | 3216.9 | 3205.6 | 3168.0 | 3143.6 | 3100.3 |
| 5° | 3598.6 | 3621.1 | 3608.0 | 3562.9 | 3491.4 | 3440.6 | 3425.6 | 3348.5 | 3279.0 | 3198.1 |
| 7.5° | 3920.1 | 3931.4 | 3906.9 | 3848.6 | 3752.7 | 3666.3 | 3653.1 | 3545.9 | 3435.0 | 3310.9 |
| 10° | 4198.3 | 4211.5 | 4173.9 | 4089.3 | 3980.2 | 3873.1 | 3854.3 | 3735.8 | 3604.2 | 3451.9 |
| 12.5° | 4431.5 | 4444.6 | 4395.8 | 4294.2 | 4173.9 | 4063.0 | 4044.2 | 3920.1 | 3775.3 | 3606.1 |
| 15° | 4608.2 | 4632.6 | 4566.8 | 4457.8 | 4328.1 | 4217.1 | 4207.7 | 4085.5 | 3944.5 | 3756.5 |
| 17.5° | 4711.6 | 4736.1 | 4674.0 | 4542.4 | 4431.5 | 4337.5 | 4326.2 | 4224.7 | 4093.0 | 3912.6 |
| 20° | 4728.5 | 4751.1 | 4685.3 | 4570.6 | 4478.5 | 4403.3 | 4397.6 | 4324.3 | 4228.4 | 4055.4 |
| 22.5° | 4677.8 | 4706.0 | 4645.8 | 4553.7 | 4489.8 | 4450.3 | 4442.8 | 4401.4 | 4346.9 | 4200.2 |
| 25° | 4625.1 | 4647.7 | 4602.6 | 4521.7 | 4487.9 | 4484.1 | 4489.8 | 4482.2 | 4471.0 | 4346.9 |
| 27.5° | 4621.4 | 4645.8 | 4595.0 | 4518.0 | 4499.2 | 4538.6 | 4544.3 | 4580.0 | 4589.4 | 4480.4 |
| 30° | 4653.3 | 4670.3 | 4621.4 | 4540.5 | 4531.1 | 4621.4 | 4623.2 | 4687.2 | 4702.2 | 4593.2 |
| 32.5° | 4722.9 | 4741.7 | 4692.8 | 4574.4 | 4561.2 | 4687.2 | 4692.8 | 4777.4 | 4801.9 | 4713.5 |
| 35° | 4886.5 | 4909.0 | 4852.6 | 4668.4 | 4621.4 | 4749.2 | 4766.1 | 4865.8 | 4914.7 | 4841.3 |
| 37.5° | 5294.5 | 5228.6 | 5151.6 | 4858.3 | 4758.6 | 4847.0 | 4875.2 | 4991.8 | 5078.2 | 4993.6 |
| 40° | 6307.8 | 6101.0 | 5860.4 | 5181.6 | 4999.3 | 5055.7 | 5078.2 | 5194.8 | 5313.3 | 5230.5 |
| 42.5° | 7828.9 | 7584.5 | 7197.1 | 5926.2 | 5362.1 | 5390.3 | 5407.3 | 5508.8 | 5676.1 | 5610.3 |
| 45° | 9184.4 | 9096.1 | 8701.3 | 7197.1 | 6040.9 | 5901.7 | 5922.4 | 5975.1 | 6221.4 | 6196.9 |
| 47.5° | 10226.0 | 10175.3 | 9870.7 | 8656.1 | 7187.7 | 6527.8 | 6586.1 | 6610.5 | 6965.9 | 7052.4 |
| 50° | 11027.0 | 11008.2 | 10735.6 | 9953.4 | 8686.2 | 7451.0 | 7471.6 | 7419.0 | 7951.1 | 8165.4 |
| 52.5° | 11782.8 | 11846.7 | 11645.5 | 11158.6 | 10286.2 | 8659.9 | 8656.1 | 8408.0 | 9126.2 | 9449.5 |
| 55° | 12465.3 | 12487.8 | 12508.5 | 12388.2 | 11895.6 | 10036.1 | 10000.4 | 9594.3 | 10489.3 | 10823.9 |
| 57.5° | 13106.4 | 13115.8 | 13300.1 | 13546.4 | 13570.8 | 11513.9 | 11448.1 | 10961.2 | 11978.3 | 12217.1 |
| 60° | 13537.0 | 13580.2 | 13969.4 | 14653.8 | 14952.7 | 13038.7 | 13003.0 | 12506.6 | 13493.7 | 13604.6 |
| 62.5° | 12916.5 | 13179.7 | 14161.2 | 15518.6 | 16257.5 | 14729.0 | 14712.0 | 14245.8 | 15088.1 | 14997.8 |
| 65° | 10455.4 | 10901.0 | 12627.0 | 16103.3 | 17537.9 | 16616.6 | 16641.1 | 16144.7 | 16725.7 | 16432.4 |
| 67.5° | 7313.7 | 7783.8 | 9825.6 | 16150.3 | 18968.7 | 18833.3 | 18974.3 | 18195.9 | 18464.8 | 17806.7 |
| 70° | 5057.6 | 5300.1 | 6629.3 | 15138.8 | 20083.6 | 21886.6 | 21882.9 | 20715.3 | 20194.5 | 18432.8 |
| 72.5° | 3401.2 | 3527.1 | 4305.5 | 12010.3 | 19263.8 | 23701.0 | 23591.9 | 22640.6 | 20777.3 | 17238.9 |
| 75° | 1434.5 | 1526.7 | 1992.9 | 6749.7 | 15240.4 | 21683.6 | 21388.4 | 20008.4 | 18461.0 | 13574.6 |
| 77.5° | 455.0 | 494.5 | 785.9 | 2416.0 | 8394.8 | 16298.9 | 15986.8 | 12495.4 | 12373.2 | 6809.8 |
| 80° | 216.2 | 251.9 | 441.8 | 970.1 | 3303.4 | 8864.8 | 8821.6 | 5668.6 | 5322.7 | 1838.8 |
| 82.5° | 94.0 | 110.9 | 244.4 | 518.9 | 1477.8 | 3162.4 | 3226.3 | 1929.0 | 1596.2 | 697.5 |
| 85° | 30.1 | 39.5 | 112.8 | 238.8 | 624.2 | 785.9 | 776.5 | 458.8 | 643.0 | 379.8 |
| 87.5° | 0.0 | 0.0 | 37.6 | 54.5 | 63.9 | 45.1 | 50.8 | 39.5 | 178.6 | 105.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951905
 CATALOG NUMBER: GALN-SB5D-930-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3017.6 | 0° | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 | 3017.6 |
| 3055.2 | 2.5° | 3032.7 | 3002.6 | 2949.9 | 2901.0 | 2857.8 | 2814.6 | 2788.2 | 2750.6 | 2746.9 | 2746.9 |
| 3104.1 | 5° | 3053.3 | 3004.5 | 2910.4 | 2810.8 | 2696.1 | 2587.1 | 2478.0 | 2372.7 | 2338.9 | 2314.4 |
| 3183.1 | 7.5° | 3113.5 | 3036.4 | 2887.9 | 2698.0 | 2479.9 | 2241.1 | 2073.8 | 1893.3 | 1823.7 | 1786.1 |
| 3288.4 | 10° | 3200.0 | 3094.7 | 2869.1 | 2536.3 | 2182.8 | 1857.6 | 1618.8 | 1423.3 | 1348.1 | 1316.1 |
| 3403.0 | 12.5° | 3295.9 | 3166.1 | 2835.2 | 2335.1 | 1857.6 | 1468.4 | 1235.2 | 1145.0 | 1133.7 | 1133.7 |
| 3540.3 | 15° | 3410.6 | 3252.6 | 2777.0 | 2098.2 | 1517.3 | 1161.9 | 1079.2 | 1083.0 | 1094.2 | 1101.8 |
| 3673.8 | 17.5° | 3529.0 | 3344.8 | 2684.8 | 1833.1 | 1216.4 | 1045.4 | 1047.2 | 1052.9 | 1062.3 | 1069.8 |
| 3818.5 | 20° | 3656.9 | 3436.9 | 2562.6 | 1551.1 | 1043.5 | 1011.5 | 1017.2 | 1022.8 | 1030.3 | 1034.1 |
| 3953.9 | 22.5° | 3794.1 | 3523.4 | 2417.9 | 1274.7 | 985.2 | 983.3 | 985.2 | 990.8 | 1000.2 | 1000.2 |
| 4111.9 | 25° | 3940.8 | 3619.3 | 2252.4 | 1073.6 | 955.1 | 955.1 | 958.9 | 962.6 | 970.1 | 970.1 |
| 4264.1 | 27.5° | 4091.2 | 3707.6 | 2077.5 | 968.3 | 928.8 | 926.9 | 926.9 | 932.5 | 936.3 | 938.2 |
| 4414.6 | 30° | 4256.6 | 3811.0 | 1902.7 | 945.7 | 908.1 | 898.7 | 893.1 | 896.8 | 900.6 | 902.5 |
| 4572.5 | 32.5° | 4425.8 | 3910.7 | 1746.6 | 955.1 | 887.4 | 870.5 | 851.7 | 847.9 | 847.9 | 855.5 |
| 4736.1 | 35° | 4613.8 | 4019.7 | 1626.3 | 987.1 | 876.1 | 829.1 | 799.1 | 782.1 | 784.0 | 795.3 |
| 4931.6 | 37.5° | 4839.5 | 4151.3 | 1537.9 | 1015.3 | 868.6 | 782.1 | 733.3 | 712.6 | 699.4 | 712.6 |
| 5200.4 | 40° | 5134.6 | 4345.0 | 1474.0 | 1037.8 | 859.2 | 727.6 | 661.8 | 628.0 | 603.5 | 611.0 |
| 5617.8 | 42.5° | 5569.0 | 4649.6 | 1449.6 | 1039.7 | 838.5 | 663.7 | 588.5 | 543.4 | 507.6 | 509.5 |
| 6245.8 | 45° | 6178.1 | 5130.9 | 1575.6 | 1015.3 | 793.4 | 594.1 | 511.4 | 451.2 | 428.7 | 423.0 |
| 7184.0 | 47.5° | 7012.9 | 5832.2 | 1867.0 | 964.5 | 727.6 | 526.4 | 436.2 | 385.4 | 368.5 | 359.1 |
| 8415.5 | 50° | 8131.6 | 6732.8 | 2190.4 | 908.1 | 661.8 | 462.5 | 374.1 | 342.2 | 330.9 | 321.5 |
| 9876.3 | 52.5° | 9428.9 | 7646.5 | 2455.5 | 851.7 | 596.0 | 406.1 | 334.7 | 315.9 | 306.5 | 298.9 |
| 11286.4 | 55° | 10619.0 | 8276.3 | 2440.4 | 791.5 | 532.1 | 361.0 | 306.5 | 295.2 | 283.9 | 276.4 |
| 12501.0 | 57.5° | 11359.8 | 8364.7 | 2011.7 | 725.7 | 458.8 | 325.3 | 280.1 | 272.6 | 259.5 | 250.1 |
| 13552.0 | 60° | 11700.1 | 7860.8 | 1410.1 | 639.2 | 385.4 | 291.4 | 251.9 | 248.2 | 231.3 | 218.1 |
| 14546.6 | 62.5° | 11762.1 | 6924.5 | 940.1 | 532.1 | 321.5 | 259.5 | 223.7 | 218.1 | 195.5 | 173.0 |
| 15355.0 | 65° | 11510.2 | 5585.9 | 650.5 | 415.5 | 274.5 | 225.6 | 191.8 | 180.5 | 156.1 | 133.5 |
| 15546.8 | 67.5° | 10713.0 | 3922.0 | 453.1 | 298.9 | 233.1 | 178.6 | 152.3 | 148.5 | 129.7 | 110.9 |
| 14569.2 | 70° | 9252.1 | 2235.5 | 302.7 | 223.7 | 184.3 | 122.2 | 120.3 | 124.1 | 105.3 | 90.2 |
| 11903.1 | 72.5° | 7093.7 | 1022.8 | 188.0 | 163.6 | 126.0 | 82.7 | 95.9 | 97.8 | 80.8 | 67.7 |
| 7426.5 | 75° | 4175.8 | 438.1 | 118.4 | 105.3 | 63.9 | 54.5 | 69.6 | 71.4 | 54.5 | 43.2 |
| 2714.9 | 77.5° | 1421.4 | 165.5 | 75.2 | 62.0 | 32.0 | 30.1 | 45.1 | 45.1 | 30.1 | 16.9 |
| 545.2 | 80° | 323.4 | 62.0 | 37.6 | 24.4 | 15.0 | 13.2 | 15.0 | 13.2 | 7.5 | 1.9 |
| 167.3 | 82.5° | 92.1 | 24.4 | 15.0 | 9.4 | 5.6 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 |
| 58.3 | 85° | 26.3 | 11.3 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.7 | 87.5° | 11.3 | 1.9 | 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 |

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| <u>180°</u> |
|-------------|
| 3017.6 |
| 2756.3 |
| 2325.7 |
| 1791.8 |
| 1316.1 |
| 1133.7 |
| 1101.8 |
| 1069.8 |
| 1036.0 |
| 1004.0 |
| 972.0 |
| 940.1 |
| 906.2 |
| 861.1 |
| 800.9 |
| 708.8 |
| 607.3 |
| 502.0 |
| 415.5 |
| 353.5 |
| 319.6 |
| 297.1 |
| 272.6 |
| 248.2 |
| 214.3 |
| 161.7 |
| 126.0 |
| 105.3 |
| 82.7 |
| 60.2 |
| 37.6 |
| 13.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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