

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: P941318

Luminaire Tested: **GALN-SB4D-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32669 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

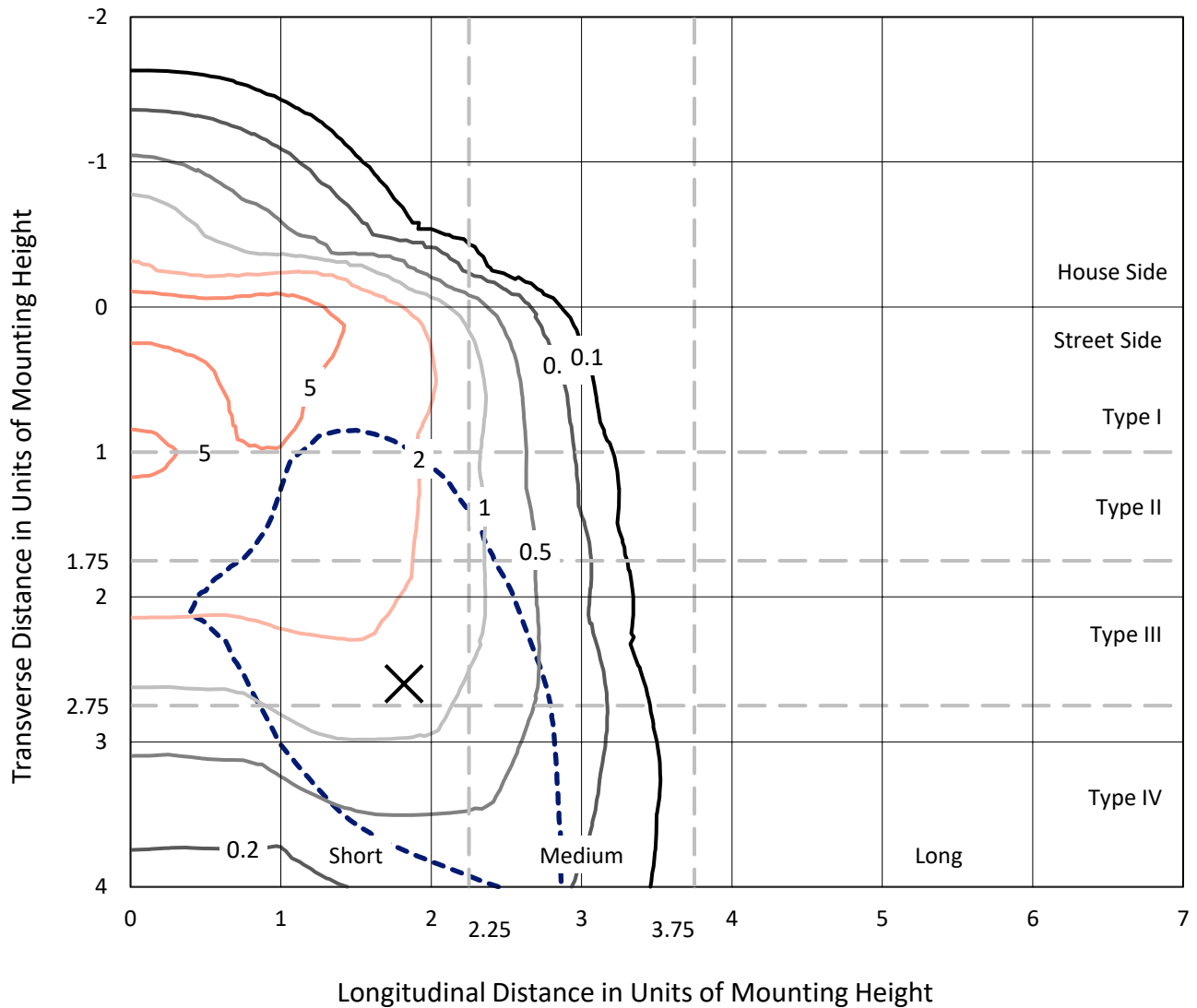
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941318
 CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

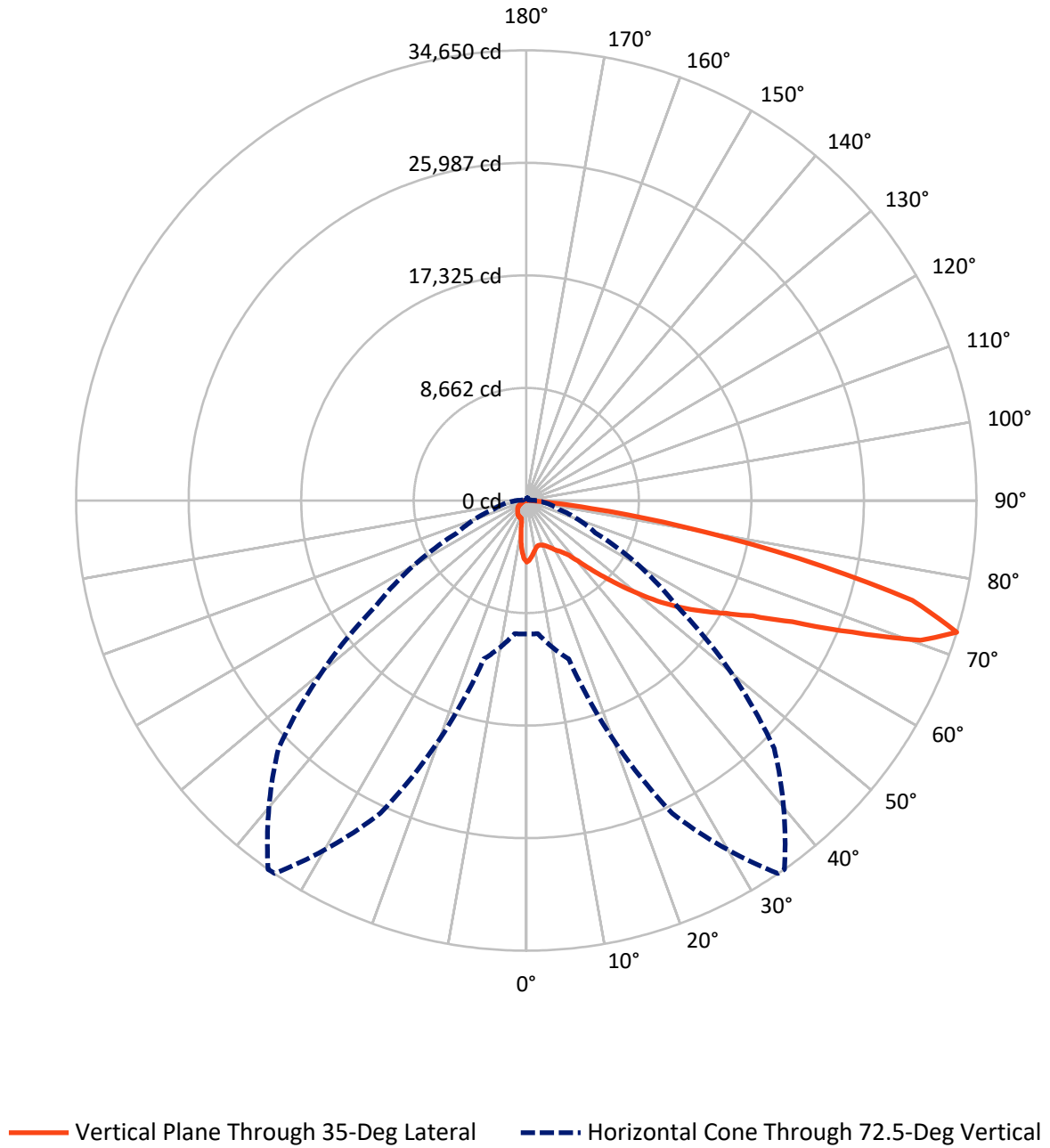
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P941318
CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941318
 CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3676.8 | 0.0 | 3676.8 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 28992.3 | 0.0 | 28992.3 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 32669.0 | 0.0 | 32669.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 389.1 | 1.2 |
| 10°-20° | 910.2 | 2.8 |
| 20°-30° | 1478.6 | 4.5 |
| 30°-40° | 2467.0 | 7.6 |
| 40°-50° | 4667.7 | 14.3 |
| 50°-60° | 7416.9 | 22.7 |
| 60°-70° | 9175.2 | 28.1 |
| 70°-80° | 5703.4 | 17.5 |
| 80°-90° | 460.9 | 1.4 |
| 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° | 32669.0 | 100.0 |
| 0°-180° | 32669.0 | 100.0 |

Coefficient of Utilization



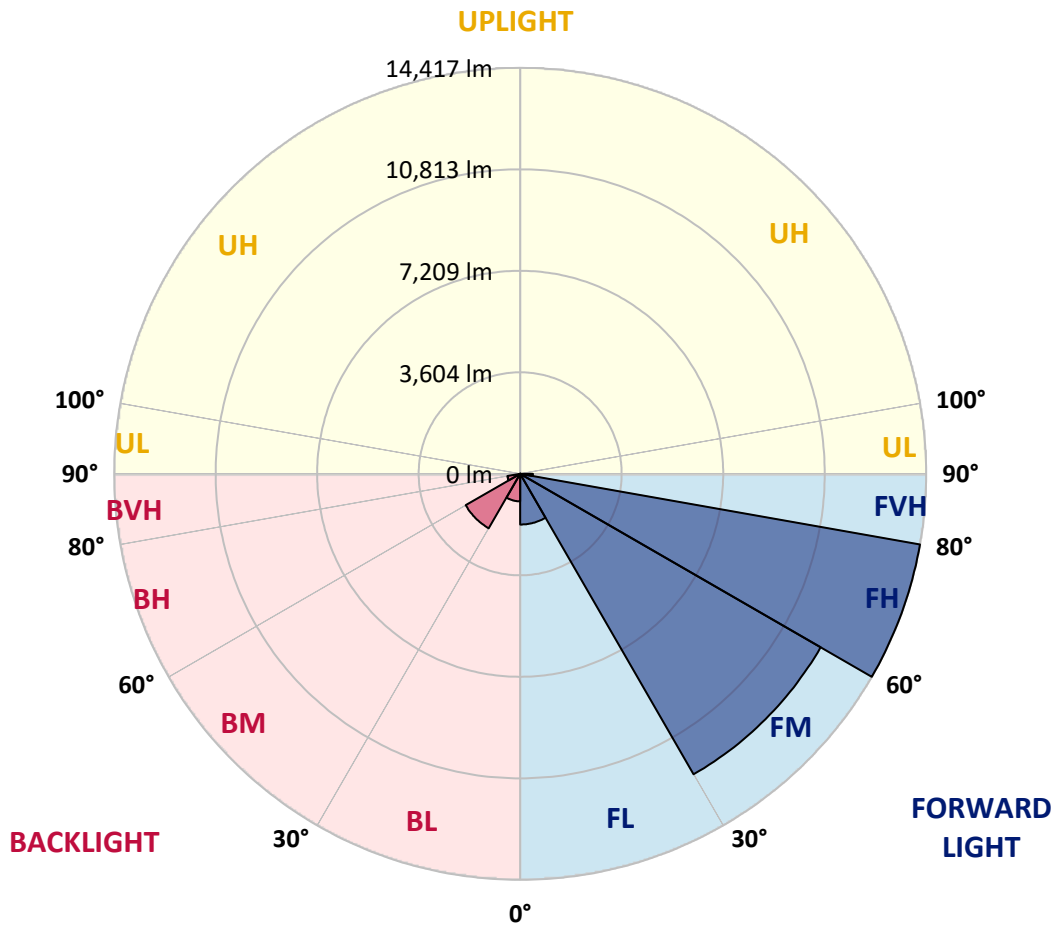
REPORT NUMBER: P941318
 CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1800.9 | 5.5 | | | |
| FM (30°-60°) | 12319.5 | 37.7 | | | |
| FH (60°-80°) | 14417.2 | 44.1 | | | G5 |
| FVH (80°-90°) | 454.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 977.0 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 2232.1 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 461.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.3 | 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



REPORT NUMBER: P941318
 CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 |
| 2.5° | 4524.2 | 4562.5 | 4569.7 | 4581.6 | 4581.6 | 4596.0 | 4619.9 | 4653.4 | 4708.5 | 4737.2 |
| 5° | 4169.9 | 4198.6 | 4234.5 | 4263.3 | 4318.3 | 4325.5 | 4418.9 | 4509.8 | 4636.7 | 4732.4 |
| 7.5° | 3813.2 | 3846.8 | 3894.6 | 3964.0 | 4035.9 | 4057.4 | 4198.6 | 4351.8 | 4552.9 | 4732.4 |
| 10° | 3561.9 | 3564.3 | 3607.4 | 3676.8 | 3791.7 | 3818.0 | 3990.4 | 4208.2 | 4459.6 | 4703.7 |
| 12.5° | 3420.7 | 3437.4 | 3456.6 | 3509.2 | 3619.3 | 3636.1 | 3820.4 | 4076.6 | 4366.2 | 4687.0 |
| 15° | 3420.7 | 3432.6 | 3444.6 | 3470.9 | 3559.5 | 3573.9 | 3736.6 | 3992.8 | 4318.3 | 4694.1 |
| 17.5° | 3456.6 | 3475.7 | 3466.1 | 3497.3 | 3590.6 | 3600.2 | 3743.8 | 3968.8 | 4315.9 | 4739.6 |
| 20° | 3542.7 | 3557.1 | 3538.0 | 3557.1 | 3650.5 | 3669.6 | 3818.0 | 4014.3 | 4356.6 | 4818.6 |
| 22.5° | 3679.2 | 3686.4 | 3640.9 | 3655.3 | 3751.0 | 3774.9 | 3947.3 | 4143.6 | 4454.8 | 4945.5 |
| 25° | 3851.5 | 3865.9 | 3796.5 | 3813.2 | 3904.2 | 3932.9 | 4131.6 | 4337.5 | 4610.4 | 5120.2 |
| 27.5° | 4050.2 | 4057.4 | 3997.6 | 3995.2 | 4112.5 | 4153.2 | 4354.2 | 4576.8 | 4818.6 | 5340.5 |
| 30° | 4277.6 | 4299.2 | 4241.7 | 4232.1 | 4380.6 | 4414.1 | 4612.8 | 4871.3 | 5125.0 | 5670.8 |
| 32.5° | 4457.2 | 4473.9 | 4440.4 | 4464.3 | 4615.1 | 4641.5 | 4926.3 | 5287.8 | 5606.2 | 6140.0 |
| 35° | 4715.7 | 4725.3 | 4648.7 | 4691.7 | 4864.1 | 4931.1 | 5354.8 | 5871.9 | 6211.8 | 6728.8 |
| 37.5° | 5651.6 | 5651.6 | 5326.1 | 5113.0 | 5278.2 | 5338.1 | 5941.3 | 6606.7 | 6958.6 | 7518.8 |
| 40° | 6946.7 | 6925.1 | 6448.8 | 6013.1 | 5991.6 | 6108.8 | 6776.7 | 7533.1 | 7923.3 | 8466.7 |
| 42.5° | 8327.8 | 8294.3 | 7645.6 | 7214.8 | 7142.9 | 7183.6 | 7741.4 | 8674.9 | 9072.3 | 9622.9 |
| 45° | 9553.4 | 9543.9 | 8950.2 | 8370.9 | 8241.7 | 8370.9 | 8945.4 | 10010.7 | 10295.5 | 10874.8 |
| 47.5° | 10580.4 | 10580.4 | 10147.1 | 9768.9 | 9701.9 | 9778.5 | 10575.6 | 11492.4 | 11466.1 | 12208.1 |
| 50° | 11762.9 | 11753.3 | 11341.6 | 11178.8 | 11248.2 | 11355.9 | 12452.3 | 13053.1 | 12677.3 | 13517.5 |
| 52.5° | 12591.1 | 12648.6 | 12507.3 | 12481.0 | 12835.3 | 13022.0 | 14357.7 | 14580.3 | 13761.7 | 14759.8 |
| 55° | 13247.0 | 13314.0 | 13476.8 | 13661.1 | 14343.3 | 14587.5 | 16203.3 | 16028.5 | 14668.9 | 15837.0 |
| 57.5° | 14175.8 | 14080.0 | 14331.4 | 14695.2 | 15798.7 | 16093.2 | 17991.4 | 17395.4 | 15399.0 | 16710.8 |
| 60° | 15303.2 | 15317.6 | 15360.7 | 15820.3 | 17251.7 | 17630.0 | 19753.2 | 18688.0 | 15868.2 | 17247.0 |
| 62.5° | 16658.1 | 16679.6 | 16768.2 | 17474.4 | 19202.6 | 19559.3 | 21629.9 | 19746.0 | 16083.6 | 17096.1 |
| 65° | 16564.7 | 16655.7 | 17644.3 | 20059.6 | 22168.5 | 22520.4 | 23820.2 | 20488.1 | 15758.0 | 15717.3 |
| 67.5° | 15090.2 | 15238.6 | 16892.7 | 23147.5 | 26640.0 | 27032.6 | 26467.7 | 20634.1 | 14352.9 | 12222.5 |
| 70° | 13156.0 | 13208.7 | 15197.9 | 25924.3 | 31817.7 | 32215.1 | 28837.5 | 19027.9 | 10891.6 | 6817.4 |
| 72.5° | 10274.0 | 10285.9 | 12619.8 | 26568.2 | 34628.0 | 34649.5 | 26977.5 | 14125.5 | 5857.5 | 2618.8 |
| 75° | 7339.2 | 7267.4 | 8452.3 | 21546.1 | 30465.2 | 30709.4 | 20224.8 | 6625.9 | 2238.2 | 1237.6 |
| 77.5° | 3935.3 | 4014.3 | 4782.7 | 12777.8 | 21045.8 | 21462.3 | 11035.2 | 1910.2 | 1139.4 | 842.6 |
| 80° | 1216.0 | 1283.0 | 1960.5 | 5850.3 | 11920.9 | 12172.2 | 4090.9 | 849.8 | 794.7 | 600.8 |
| 82.5° | 383.0 | 397.4 | 914.4 | 2458.4 | 4947.9 | 5062.8 | 1184.9 | 481.1 | 543.4 | 397.4 |
| 85° | 110.1 | 112.5 | 406.9 | 916.8 | 1223.2 | 1247.1 | 332.7 | 186.7 | 311.2 | 246.6 |
| 87.5° | 12.0 | 38.3 | 153.2 | 153.2 | 107.7 | 105.3 | 35.9 | 40.7 | 88.6 | 31.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P941318
 CATALOG NUMBER: GALN-SB4D-750-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4734.8 | 0° | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 | 4734.8 |
| 4756.4 | 2.5° | 4744.4 | 4746.8 | 4715.7 | 4663.0 | 4605.6 | 4557.7 | 4497.9 | 4450.0 | 4416.5 | 4406.9 |
| 4799.5 | 5° | 4777.9 | 4761.2 | 4672.6 | 4512.2 | 4320.7 | 4155.5 | 3971.2 | 3825.2 | 3729.5 | 3688.8 |
| 4844.9 | 7.5° | 4828.2 | 4780.3 | 4586.4 | 4270.4 | 3904.2 | 3578.7 | 3248.3 | 2992.2 | 2829.4 | 2748.0 |
| 4888.0 | 10° | 4871.3 | 4775.5 | 4442.8 | 3921.0 | 3360.8 | 2867.7 | 2422.5 | 2113.7 | 1941.3 | 1859.9 |
| 4938.3 | 12.5° | 4912.0 | 4773.1 | 4256.1 | 3506.8 | 2748.0 | 2144.8 | 1730.7 | 1577.5 | 1529.6 | 1512.8 |
| 5019.7 | 15° | 4988.6 | 4780.3 | 4021.5 | 3032.9 | 2137.6 | 1620.6 | 1469.8 | 1467.4 | 1476.9 | 1472.2 |
| 5144.2 | 17.5° | 5093.9 | 4787.5 | 3755.8 | 2530.2 | 1649.3 | 1429.1 | 1421.9 | 1443.4 | 1457.8 | 1450.6 |
| 5299.8 | 20° | 5230.3 | 4816.2 | 3473.3 | 2032.3 | 1417.1 | 1381.2 | 1397.9 | 1417.1 | 1429.1 | 1417.1 |
| 5508.0 | 22.5° | 5421.8 | 4866.5 | 3164.5 | 1632.5 | 1342.9 | 1352.5 | 1366.8 | 1388.4 | 1400.3 | 1383.6 |
| 5773.7 | 25° | 5656.4 | 4945.5 | 2860.5 | 1419.5 | 1307.0 | 1319.0 | 1340.5 | 1364.4 | 1378.8 | 1362.0 |
| 6108.8 | 27.5° | 5960.4 | 5072.4 | 2580.5 | 1371.6 | 1271.1 | 1278.3 | 1309.4 | 1345.3 | 1364.4 | 1342.9 |
| 6585.2 | 30° | 6400.9 | 5280.6 | 2338.7 | 1393.2 | 1249.5 | 1232.8 | 1275.9 | 1326.1 | 1347.7 | 1328.5 |
| 7233.9 | 32.5° | 6985.0 | 5575.0 | 2190.3 | 1426.7 | 1240.0 | 1180.1 | 1220.8 | 1285.4 | 1321.3 | 1309.4 |
| 8081.3 | 35° | 7751.0 | 6022.7 | 2132.8 | 1465.0 | 1232.8 | 1125.1 | 1153.8 | 1223.2 | 1285.4 | 1297.4 |
| 9148.9 | 37.5° | 8679.7 | 6645.0 | 2149.6 | 1481.7 | 1211.2 | 1079.6 | 1093.9 | 1153.8 | 1235.2 | 1273.5 |
| 10350.6 | 40° | 9735.4 | 7370.3 | 2245.3 | 1465.0 | 1187.3 | 1041.3 | 1043.7 | 1089.2 | 1161.0 | 1218.4 |
| 11643.2 | 42.5° | 10824.5 | 8217.7 | 2422.5 | 1402.7 | 1165.8 | 1007.8 | 1000.6 | 1031.7 | 1079.6 | 1120.3 |
| 12933.4 | 45° | 11861.0 | 9089.1 | 2597.2 | 1316.6 | 1139.4 | 974.3 | 957.5 | 969.5 | 979.0 | 995.8 |
| 14190.1 | 47.5° | 12765.9 | 9701.9 | 2546.9 | 1237.6 | 1103.5 | 936.0 | 907.2 | 902.4 | 873.7 | 871.3 |
| 15312.8 | 50° | 13390.6 | 9835.9 | 2262.1 | 1158.6 | 1050.9 | 892.9 | 847.4 | 818.7 | 768.4 | 744.5 |
| 16153.0 | 52.5° | 13589.3 | 9306.9 | 1848.0 | 1079.6 | 964.7 | 835.4 | 770.8 | 725.3 | 663.1 | 641.5 |
| 16636.5 | 55° | 13326.0 | 8270.4 | 1476.9 | 983.8 | 845.0 | 758.8 | 687.0 | 627.2 | 576.9 | 550.6 |
| 16689.2 | 57.5° | 12682.1 | 6951.4 | 1168.1 | 871.3 | 718.1 | 672.6 | 600.8 | 541.0 | 497.9 | 471.6 |
| 16105.1 | 60° | 11614.5 | 5520.0 | 924.0 | 737.3 | 612.8 | 579.3 | 505.1 | 466.8 | 428.5 | 397.4 |
| 14597.1 | 62.5° | 9993.9 | 3940.1 | 725.3 | 584.1 | 512.3 | 474.0 | 430.9 | 402.1 | 356.7 | 313.6 |
| 11885.0 | 65° | 7798.8 | 2410.5 | 560.1 | 428.5 | 411.7 | 392.6 | 366.2 | 339.9 | 284.9 | 241.8 |
| 7753.3 | 67.5° | 4919.2 | 1141.8 | 399.8 | 323.2 | 325.5 | 316.0 | 304.0 | 282.5 | 241.8 | 203.5 |
| 3473.3 | 70° | 2166.3 | 553.0 | 263.3 | 246.6 | 241.8 | 241.8 | 251.3 | 244.2 | 205.9 | 170.0 |
| 1206.4 | 72.5° | 737.3 | 296.8 | 196.3 | 186.7 | 174.7 | 172.3 | 210.6 | 203.5 | 165.2 | 131.7 |
| 600.8 | 75° | 385.4 | 198.7 | 143.6 | 134.0 | 105.3 | 126.9 | 167.6 | 158.0 | 117.3 | 86.2 |
| 397.4 | 77.5° | 251.3 | 141.2 | 98.1 | 86.2 | 59.8 | 83.8 | 124.5 | 110.1 | 69.4 | 43.1 |
| 260.9 | 80° | 158.0 | 93.4 | 57.4 | 40.7 | 28.7 | 45.5 | 67.0 | 47.9 | 26.3 | 9.6 |
| 153.2 | 82.5° | 83.8 | 47.9 | 21.5 | 14.4 | 12.0 | 14.4 | 16.8 | 12.0 | 4.8 | 0.0 |
| 79.0 | 85° | 33.5 | 16.8 | 7.2 | 4.8 | 2.4 | 0.0 | 4.8 | 2.4 | 0.0 | 0.0 |
| 14.4 | 87.5° | 12.0 | 2.4 | 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 O

| <u>180°</u> |
|-------------|
| 4734.8 |
| 4423.6 |
| 3703.1 |
| 2760.0 |
| 1862.3 |
| 1508.1 |
| 1469.8 |
| 1448.2 |
| 1414.7 |
| 1381.2 |
| 1359.6 |
| 1342.9 |
| 1326.1 |
| 1309.4 |
| 1297.4 |
| 1283.0 |
| 1237.6 |
| 1137.0 |
| 1005.4 |
| 868.9 |
| 746.8 |
| 639.1 |
| 550.6 |
| 466.8 |
| 390.2 |
| 306.4 |
| 234.6 |
| 198.7 |
| 162.8 |
| 124.5 |
| 79.0 |
| 38.3 |
| 7.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)