

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: P940526

Luminaire Tested: **GALN-SB3C-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16856 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

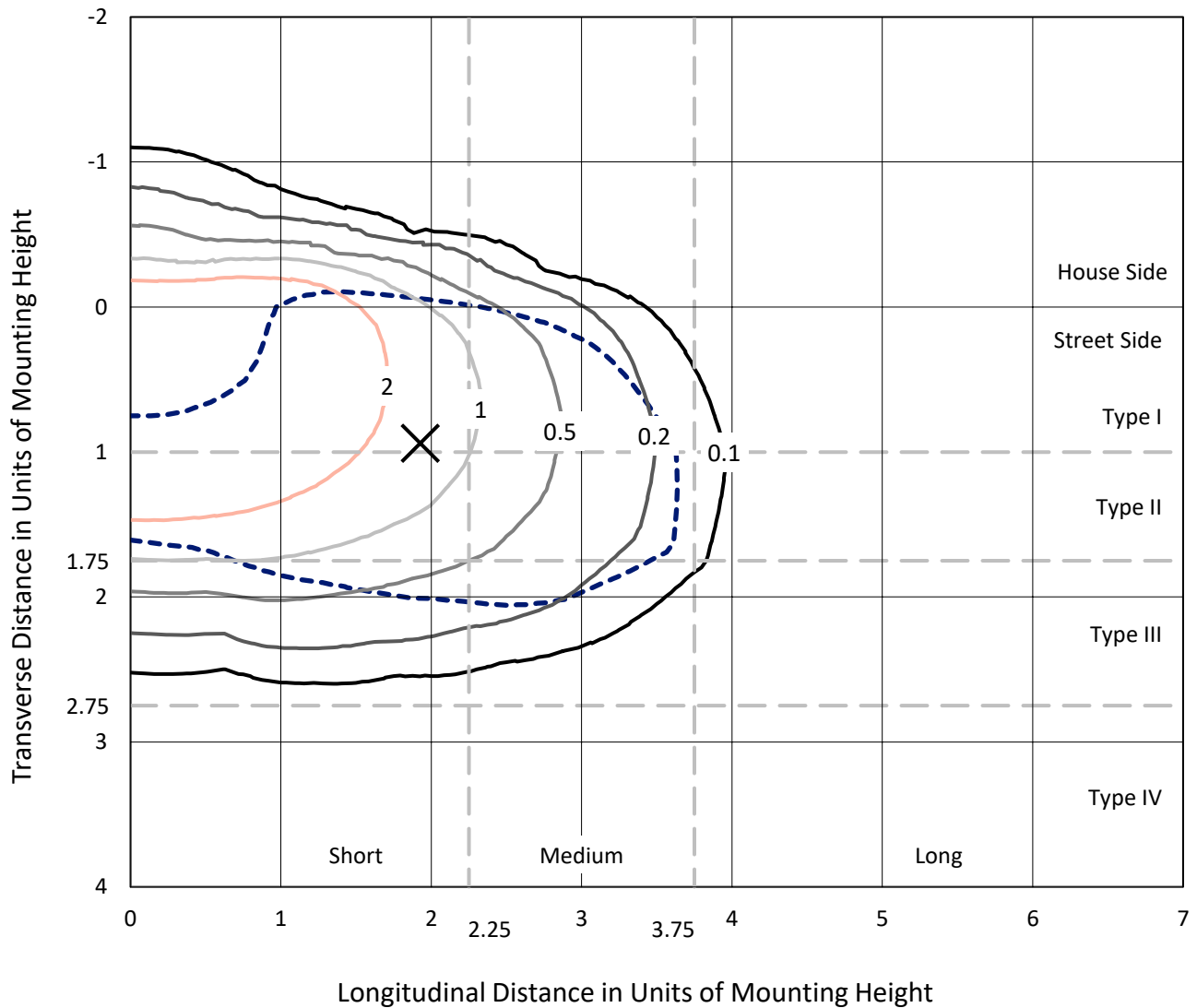
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940526
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Iso-Footcandle Lines of Horizontal Illumination

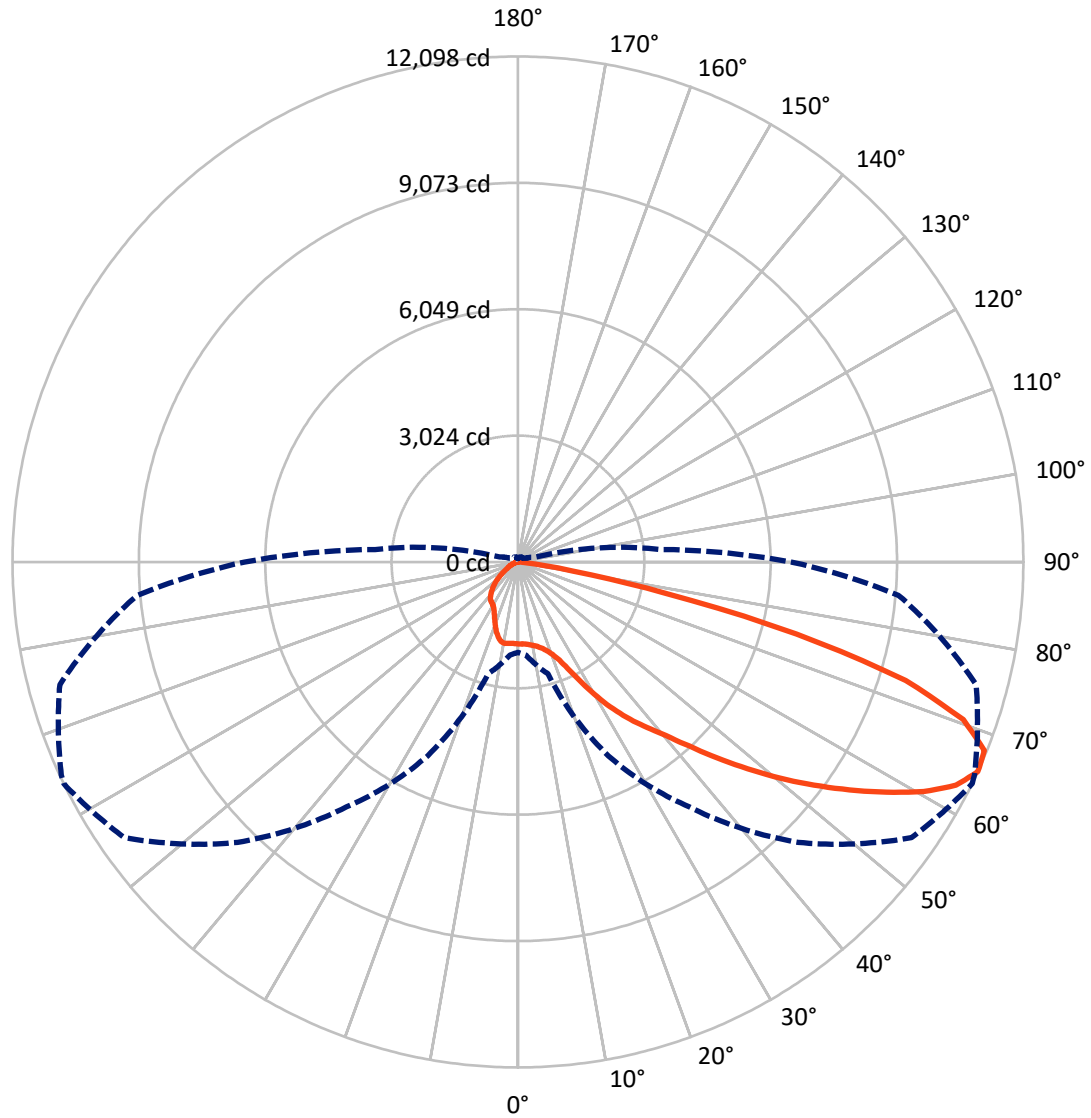
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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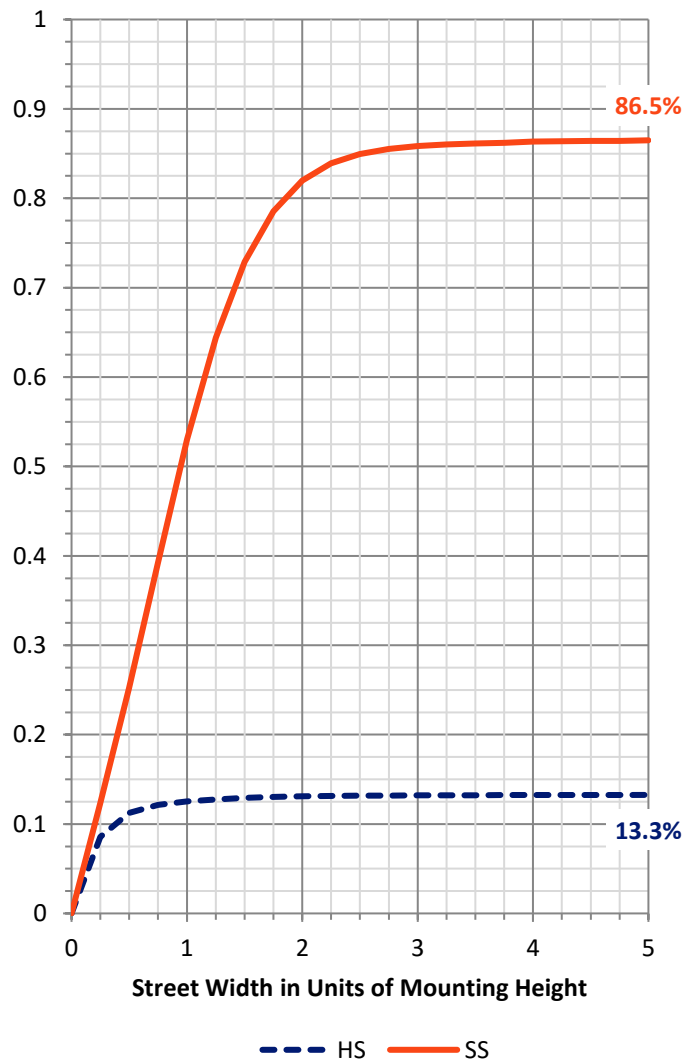
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2254.2 | 0.0 | 2254.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 14601.8 | 0.0 | 14601.8 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 16856.0 | 0.0 | 16856.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 180.9 | 1.1 |
| 10°-20° | 490.6 | 2.9 |
| 20°-30° | 929.6 | 5.5 |
| 30°-40° | 1881.1 | 11.2 |
| 40°-50° | 3204.5 | 19.0 |
| 50°-60° | 4357.9 | 25.9 |
| 60°-70° | 4092.3 | 24.3 |
| 70°-80° | 1639.6 | 9.7 |
| 80°-90° | 79.4 | 0.5 |
| 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° | 16856.0 | 100.0 |
| 0°-180° | 16856.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940526

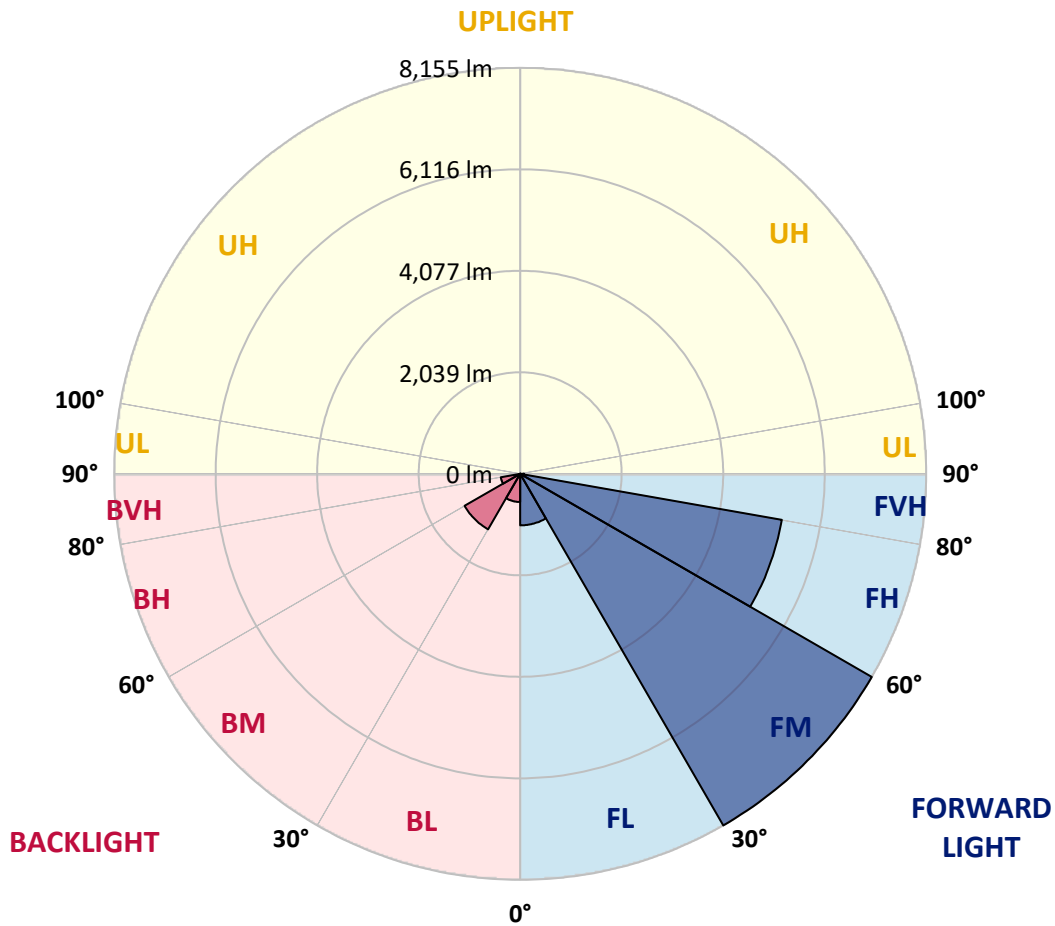
CATALOG NUMBER: GALN-SB3C-850-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1035.2 | 6.1 | | | |
| FM (30°-60°) | 8154.9 | 48.4 | | | |
| FH (60°-80°) | 5336.2 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 75.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 566.0 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1288.7 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 395.6 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.9 | 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-G3

Type III Short



REPORT NUMBER: P940526

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 |
| 2.5° | 1953.7 | 1967.3 | 1963.9 | 1960.5 | 1959.4 | 1961.7 | 1962.8 | 1961.7 | 1961.7 | 1961.7 |
| 5° | 1916.5 | 1927.8 | 1927.8 | 1935.7 | 1947.0 | 1960.5 | 1970.7 | 1973.0 | 1975.2 | 1978.6 |
| 7.5° | 1845.3 | 1854.3 | 1861.1 | 1887.1 | 1915.3 | 1951.5 | 1982.0 | 1997.8 | 2000.1 | 2012.5 |
| 10° | 1796.7 | 1808.0 | 1819.3 | 1846.4 | 1887.1 | 1941.3 | 1993.3 | 2031.7 | 2037.4 | 2066.7 |
| 12.5° | 1794.4 | 1805.7 | 1820.4 | 1849.8 | 1897.2 | 1954.9 | 2018.2 | 2073.5 | 2083.7 | 2126.6 |
| 15° | 1818.1 | 1831.7 | 1845.3 | 1881.4 | 1932.3 | 2002.3 | 2070.1 | 2139.1 | 2149.2 | 2210.3 |
| 17.5° | 1866.7 | 1884.8 | 1895.0 | 1931.1 | 1985.4 | 2063.4 | 2152.6 | 2231.7 | 2240.8 | 2312.0 |
| 20° | 1962.8 | 1984.3 | 1987.6 | 2017.0 | 2070.1 | 2153.8 | 2260.0 | 2358.3 | 2369.6 | 2450.9 |
| 22.5° | 2161.7 | 2192.2 | 2165.1 | 2179.7 | 2227.2 | 2310.8 | 2426.1 | 2550.4 | 2566.2 | 2658.9 |
| 25° | 2512.0 | 2554.9 | 2484.8 | 2460.0 | 2480.3 | 2567.3 | 2712.0 | 2869.0 | 2887.1 | 2961.7 |
| 27.5° | 3200.1 | 3144.8 | 3038.5 | 2934.6 | 2873.6 | 2923.3 | 3086.0 | 3280.4 | 3303.0 | 3375.3 |
| 30° | 3956.1 | 3907.5 | 3764.0 | 3533.5 | 3388.8 | 3380.9 | 3531.2 | 3748.2 | 3774.2 | 3843.1 |
| 32.5° | 4713.2 | 4666.8 | 4510.9 | 4227.3 | 3976.4 | 3852.1 | 3956.1 | 4196.8 | 4210.3 | 4254.4 |
| 35° | 5457.8 | 5410.4 | 5254.4 | 4964.0 | 4655.5 | 4373.1 | 4352.7 | 4623.9 | 4628.4 | 4674.8 |
| 37.5° | 6207.0 | 6167.5 | 6001.4 | 5716.6 | 5412.6 | 5022.8 | 4834.1 | 5028.4 | 5034.1 | 5079.3 |
| 40° | 6741.5 | 6758.5 | 6644.3 | 6424.0 | 6163.0 | 5736.9 | 5374.2 | 5459.0 | 5425.1 | 5500.8 |
| 42.5° | 7200.3 | 7234.2 | 7134.7 | 7024.0 | 6872.6 | 6497.4 | 6043.2 | 6028.5 | 5974.2 | 6014.9 |
| 45° | 7596.9 | 7625.2 | 7535.9 | 7509.9 | 7506.5 | 7243.2 | 6774.3 | 6686.1 | 6610.4 | 6602.5 |
| 47.5° | 7742.7 | 7796.9 | 7835.3 | 7922.3 | 8091.8 | 7981.1 | 7530.2 | 7393.5 | 7308.8 | 7246.6 |
| 50° | 7798.0 | 7855.7 | 7986.7 | 8239.9 | 8641.0 | 8688.5 | 8282.8 | 8129.1 | 8025.2 | 7912.2 |
| 52.5° | 7723.5 | 7826.3 | 8002.6 | 8428.6 | 9010.5 | 9255.7 | 9004.9 | 8870.4 | 8751.8 | 8567.6 |
| 55° | 7283.9 | 7386.7 | 7747.2 | 8426.3 | 9194.7 | 9653.5 | 9687.4 | 9627.5 | 9494.2 | 9203.7 |
| 57.5° | 6357.3 | 6509.9 | 7080.5 | 8139.3 | 9191.3 | 9995.9 | 10356.3 | 10399.3 | 10250.1 | 9834.3 |
| 60° | 5073.6 | 5280.4 | 5976.5 | 7503.1 | 8907.7 | 10181.2 | 10942.8 | 11157.5 | 10999.3 | 10455.8 |
| 62.5° | 3540.2 | 3779.8 | 4438.6 | 6506.5 | 8259.1 | 10047.8 | 11371.1 | 11767.7 | 11647.9 | 11011.7 |
| 65° | 2159.4 | 2236.2 | 2767.3 | 5120.0 | 7156.2 | 9489.6 | 11503.3 | 12097.6 | 12058.1 | 11351.9 |
| 67.5° | 1438.5 | 1502.9 | 1655.4 | 3510.9 | 5555.0 | 8374.3 | 11186.9 | 12040.0 | 12051.3 | 11296.5 |
| 70° | 866.7 | 922.1 | 1021.5 | 2041.9 | 3600.1 | 6628.5 | 10207.2 | 11305.5 | 11371.1 | 10556.3 |
| 72.5° | 357.1 | 394.4 | 484.8 | 925.5 | 1864.5 | 4206.9 | 8128.0 | 9706.6 | 9859.1 | 8876.0 |
| 75° | 202.3 | 221.5 | 284.8 | 464.4 | 809.1 | 1960.5 | 4923.4 | 6890.7 | 7115.5 | 6117.8 |
| 77.5° | 134.5 | 143.5 | 184.2 | 300.6 | 455.4 | 669.0 | 2104.0 | 3590.0 | 4019.4 | 3341.4 |
| 80° | 90.4 | 98.3 | 126.6 | 201.1 | 296.1 | 287.0 | 670.1 | 1330.0 | 1636.2 | 1148.1 |
| 82.5° | 61.0 | 62.1 | 90.4 | 132.2 | 187.6 | 139.0 | 197.7 | 413.6 | 519.8 | 332.2 |
| 85° | 35.0 | 33.9 | 66.7 | 76.8 | 83.6 | 57.6 | 59.9 | 124.3 | 162.7 | 140.1 |
| 87.5° | 4.5 | 6.8 | 26.0 | 20.3 | 11.3 | 12.4 | 12.4 | 21.5 | 31.6 | 33.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P940526
 CATALOG NUMBER: GALN-SB3C-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1960.5 | 0° | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 | 1960.5 |
| 1962.8 | 2.5° | 1962.8 | 1961.7 | 1958.3 | 1954.9 | 1947.0 | 1942.4 | 1944.7 | 1942.4 | 1941.3 | 1942.4 |
| 1977.5 | 5° | 1977.5 | 1974.1 | 1965.0 | 1953.7 | 1937.9 | 1918.7 | 1906.3 | 1888.2 | 1871.3 | 1861.1 |
| 2017.0 | 7.5° | 2017.0 | 2013.6 | 2001.2 | 1969.6 | 1918.7 | 1838.5 | 1765.0 | 1700.6 | 1652.0 | 1623.8 |
| 2080.3 | 10° | 2080.3 | 2074.7 | 2055.4 | 1985.4 | 1852.0 | 1676.9 | 1531.1 | 1410.2 | 1331.1 | 1293.8 |
| 2154.9 | 12.5° | 2154.9 | 2148.1 | 2114.2 | 1970.7 | 1725.5 | 1452.0 | 1250.9 | 1116.4 | 1043.0 | 1010.2 |
| 2240.8 | 15° | 2243.0 | 2234.0 | 2167.3 | 1900.6 | 1541.3 | 1203.4 | 1019.2 | 918.7 | 871.2 | 841.8 |
| 2350.4 | 17.5° | 2352.6 | 2336.8 | 2206.9 | 1795.5 | 1341.3 | 1013.6 | 876.9 | 801.2 | 759.4 | 731.1 |
| 2493.9 | 20° | 2495.0 | 2469.0 | 2238.5 | 1670.1 | 1157.1 | 893.8 | 780.8 | 717.5 | 685.9 | 661.0 |
| 2697.3 | 22.5° | 2693.9 | 2656.6 | 2276.9 | 1534.5 | 1027.2 | 811.3 | 709.6 | 663.3 | 637.3 | 609.1 |
| 2980.9 | 25° | 2940.2 | 2896.2 | 2324.4 | 1409.1 | 937.9 | 740.1 | 657.7 | 619.2 | 588.7 | 556.0 |
| 3352.7 | 27.5° | 3284.9 | 3205.8 | 2380.9 | 1306.3 | 861.1 | 679.1 | 610.2 | 567.3 | 532.2 | 505.1 |
| 3774.2 | 30° | 3669.1 | 3539.1 | 2430.6 | 1244.1 | 791.0 | 622.6 | 548.0 | 505.1 | 472.3 | 453.1 |
| 4152.7 | 32.5° | 4032.9 | 3856.6 | 2463.4 | 1217.0 | 727.7 | 558.2 | 480.2 | 433.9 | 409.1 | 403.4 |
| 4523.3 | 35° | 4376.4 | 4143.7 | 2460.0 | 1191.0 | 671.2 | 493.8 | 413.6 | 366.1 | 346.9 | 350.3 |
| 4922.2 | 37.5° | 4771.9 | 4449.9 | 2436.3 | 1150.3 | 624.9 | 435.0 | 355.9 | 314.1 | 297.2 | 298.3 |
| 5407.0 | 40° | 5231.8 | 4803.6 | 2421.6 | 1073.5 | 574.0 | 380.8 | 308.5 | 274.6 | 262.2 | 257.6 |
| 5917.7 | 42.5° | 5722.3 | 5146.0 | 2423.8 | 986.5 | 510.8 | 332.2 | 275.7 | 247.5 | 236.2 | 232.8 |
| 6486.1 | 45° | 6214.9 | 5472.5 | 2427.2 | 896.1 | 444.1 | 294.9 | 252.0 | 228.3 | 221.5 | 217.0 |
| 7062.4 | 47.5° | 6678.2 | 5750.5 | 2363.9 | 798.9 | 378.5 | 266.7 | 232.8 | 217.0 | 211.3 | 205.7 |
| 7641.0 | 50° | 7109.9 | 5935.8 | 2211.4 | 685.9 | 326.6 | 244.1 | 218.1 | 206.8 | 201.1 | 195.5 |
| 8165.3 | 52.5° | 7445.5 | 5965.2 | 1959.4 | 569.5 | 290.4 | 227.1 | 209.0 | 198.9 | 192.1 | 186.4 |
| 8589.0 | 55° | 7594.6 | 5781.0 | 1601.2 | 461.0 | 262.2 | 212.4 | 200.0 | 189.8 | 181.9 | 176.3 |
| 8922.4 | 57.5° | 7556.2 | 5393.4 | 1248.6 | 370.6 | 235.0 | 197.7 | 188.7 | 181.9 | 172.9 | 163.8 |
| 9192.4 | 60° | 7367.5 | 4874.8 | 941.3 | 308.5 | 210.2 | 181.9 | 176.3 | 170.6 | 158.2 | 144.6 |
| 9296.4 | 62.5° | 7041.0 | 4222.8 | 671.2 | 255.4 | 183.1 | 163.8 | 161.6 | 157.1 | 139.0 | 114.1 |
| 9142.7 | 65° | 6541.5 | 3430.6 | 452.0 | 212.4 | 157.1 | 143.5 | 144.6 | 136.7 | 113.0 | 84.7 |
| 8580.0 | 67.5° | 5811.5 | 2508.6 | 289.3 | 174.0 | 131.1 | 119.8 | 120.9 | 116.4 | 96.0 | 72.3 |
| 7513.3 | 70° | 4881.5 | 1661.1 | 188.7 | 132.2 | 105.1 | 92.7 | 99.4 | 100.6 | 81.4 | 58.8 |
| 5766.3 | 72.5° | 3578.7 | 980.8 | 132.2 | 98.3 | 76.8 | 64.4 | 81.4 | 83.6 | 65.5 | 44.1 |
| 3469.1 | 75° | 2039.6 | 465.6 | 99.4 | 71.2 | 47.5 | 45.2 | 63.3 | 63.3 | 45.2 | 29.4 |
| 1501.8 | 77.5° | 856.5 | 194.4 | 70.1 | 46.3 | 27.1 | 26.0 | 42.9 | 39.5 | 22.6 | 13.6 |
| 366.1 | 80° | 247.5 | 87.0 | 37.3 | 22.6 | 11.3 | 10.2 | 16.9 | 12.4 | 5.6 | 2.3 |
| 139.0 | 82.5° | 97.2 | 38.4 | 14.7 | 9.0 | 4.5 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 |
| 79.1 | 85° | 57.6 | 15.8 | 6.8 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16.9 | 87.5° | 14.7 | 3.4 | 2.3 | 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> |
|-------------|
| 1960.5 |
| 1947.0 |
| 1863.3 |
| 1624.9 |
| 1290.4 |
| 1006.8 |
| 843.0 |
| 728.8 |
| 656.5 |
| 604.5 |
| 552.6 |
| 499.5 |
| 449.7 |
| 406.8 |
| 350.3 |
| 302.8 |
| 256.5 |
| 231.6 |
| 217.0 |
| 205.7 |
| 195.5 |
| 185.3 |
| 175.1 |
| 162.7 |
| 142.4 |
| 111.9 |
| 82.5 |
| 68.9 |
| 56.5 |
| 41.8 |
| 27.1 |
| 13.6 |
| 2.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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