

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: P944025

Luminaire Tested: **GALN-SB8D-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 86258 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

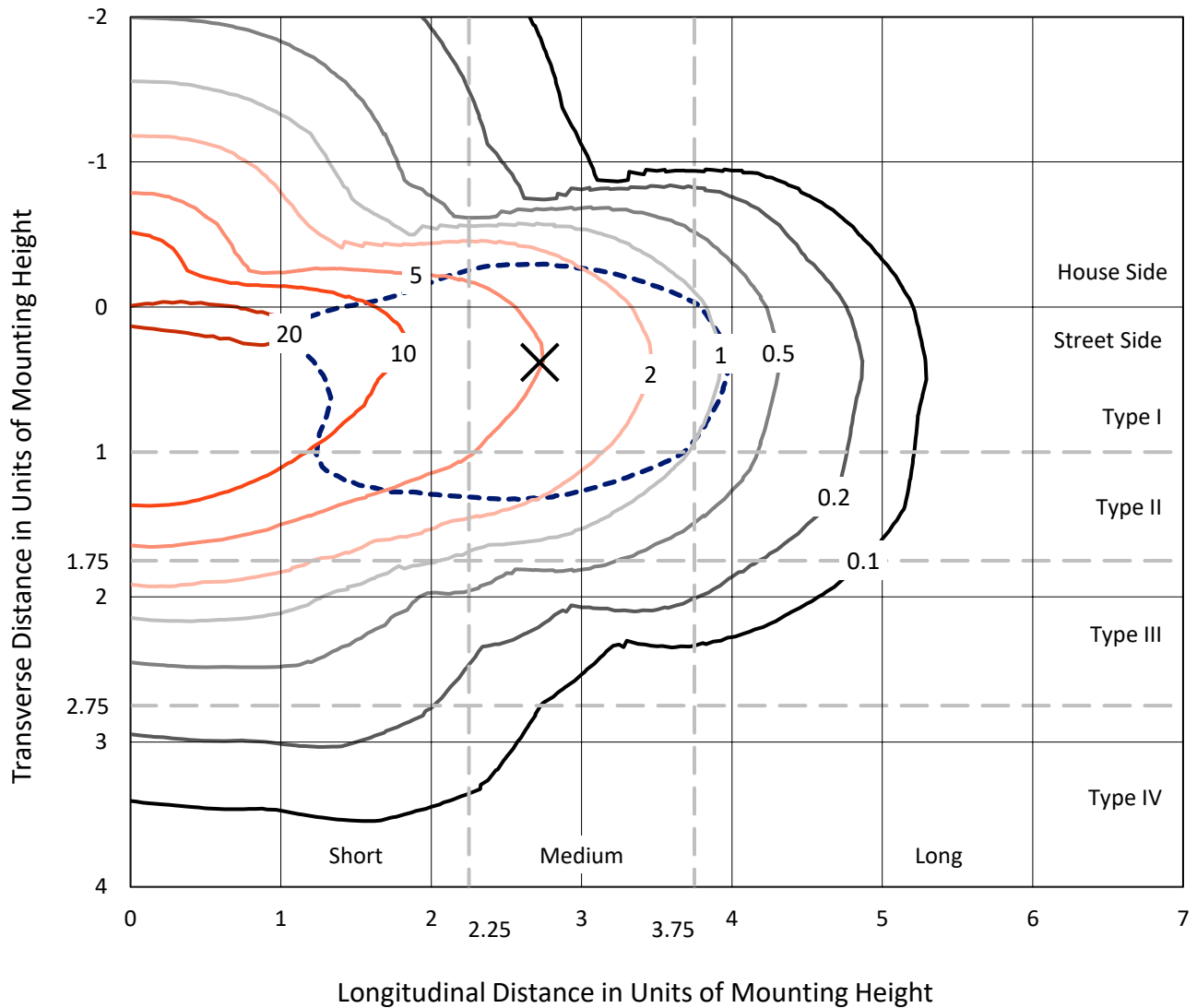
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

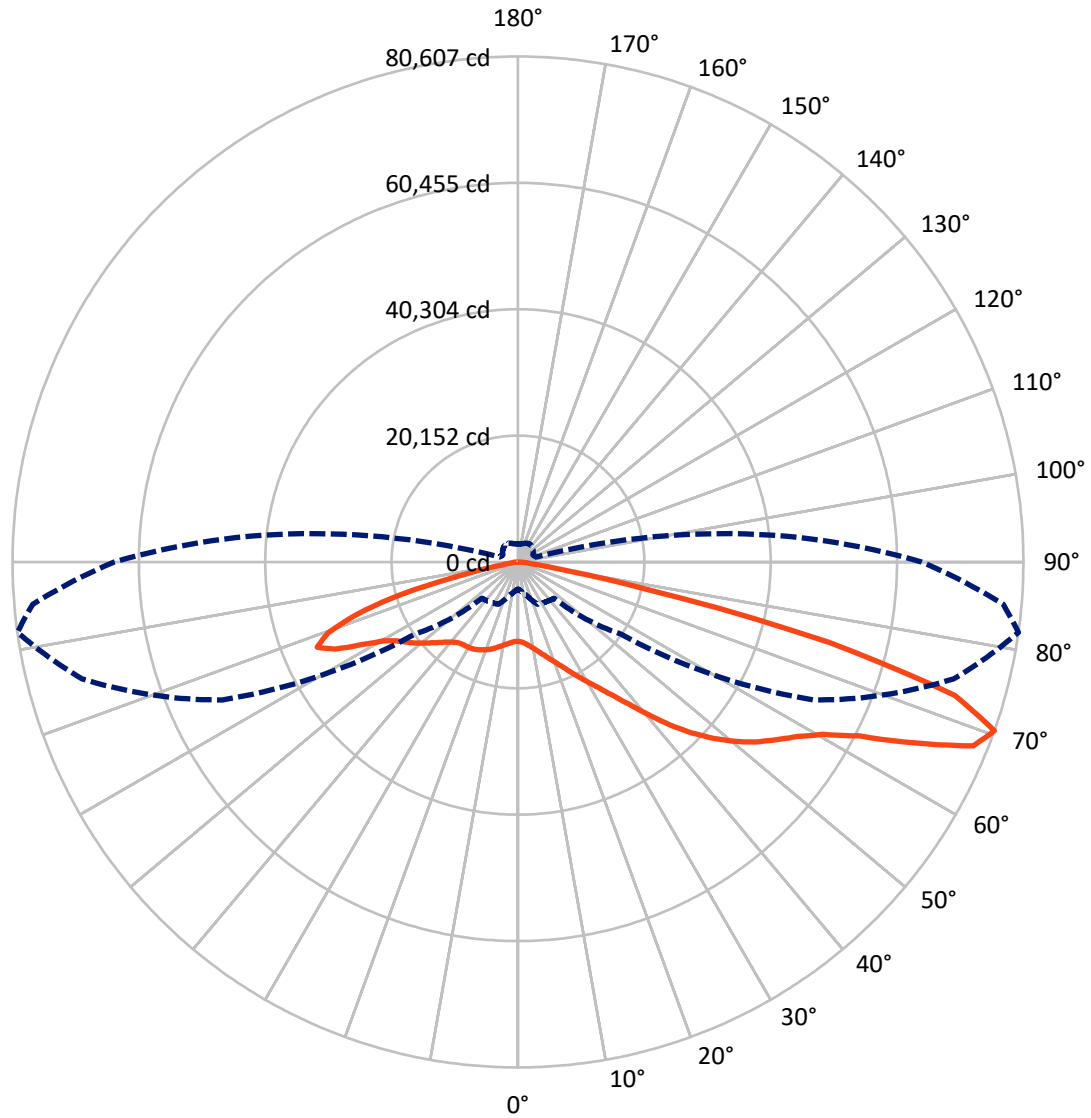
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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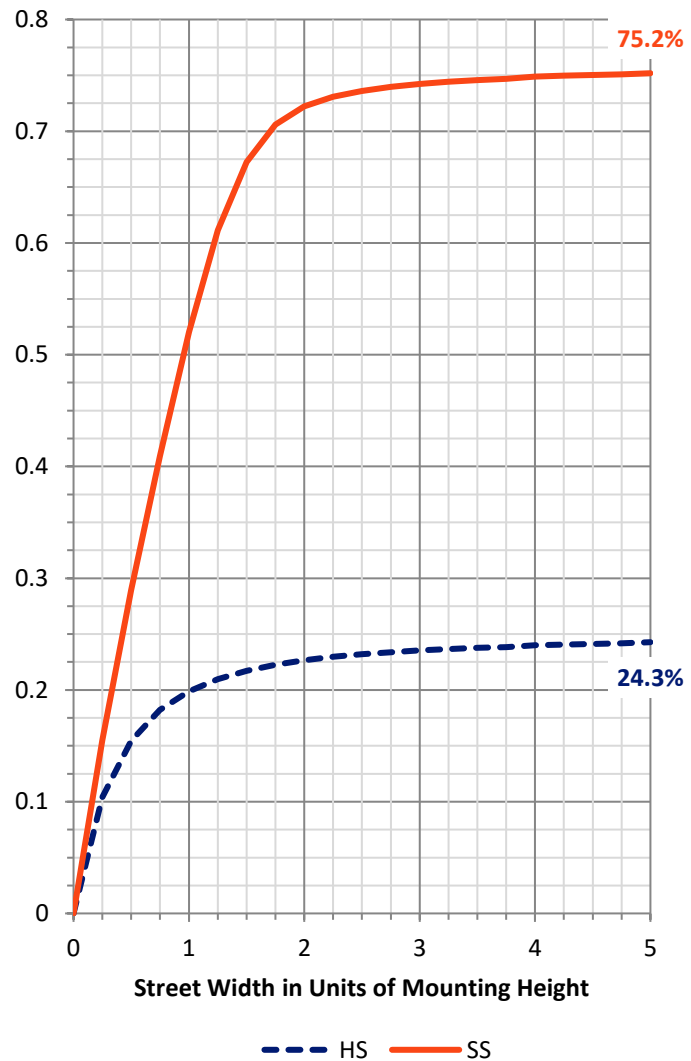
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21264.7  | 0.0    | 21264.7 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 64993.3  | 0.0    | 64993.3 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 86258.0  | 0.0    | 86258.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1194.1  | 1.4       |
| 10°-20°   | 3430.6  | 4.0       |
| 20°-30°   | 5739.0  | 6.7       |
| 30°-40°   | 8965.8  | 10.4      |
| 40°-50°   | 14279.1 | 16.6      |
| 50°-60°   | 19871.2 | 23.0      |
| 60°-70°   | 20786.1 | 24.1      |
| 70°-80°   | 10864.0 | 12.6      |
| 80°-90°   | 1128.1  | 1.3       |
| 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°    | 86258.0 | 100.0     |
| 0°-180°   | 86258.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944025

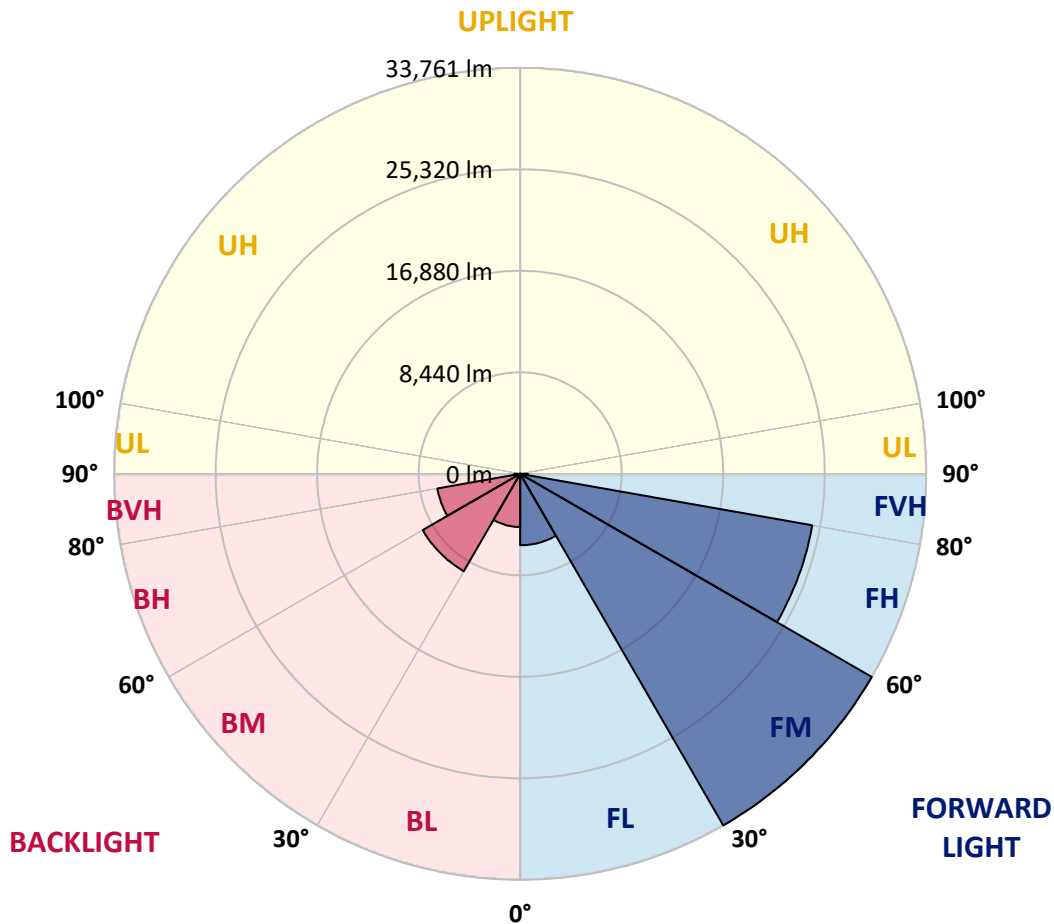
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 5939.8  | 6.9       |                         |      |        |
| FM (30°-60°)   | 33760.5 | 39.1      |                         |      |        |
| FH (60°-80°)   | 24661.4 | 28.6      |                         |      | G5     |
| FVH (80°-90°)  | 631.5   | 0.7       |                         |      | G4/750 |
| BL (0°-30°)    | 4423.8  | 5.1       | B4/5000                 |      |        |
| BM (30°-60°)   | 9355.6  | 10.8      | B5                      |      |        |
| BH (60°-80°)   | 6988.7  | 8.1       | B5                      |      | G5     |
| BVH (80°-90°)  | 496.6   | 0.6       |                         |      | G3/500 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type II Medium



REPORT NUMBER: P944025  
 CATALOG NUMBER: GALN-SB8D-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 |
| 2.5°  | 12948.6 | 13021.8 | 12998.9 | 12976.1 | 12976.1 | 12944.0 | 12939.4 | 12893.7 | 12857.0 | 12797.5 |
| 5°    | 13113.4 | 13191.2 | 13182.0 | 13200.3 | 13259.8 | 13273.6 | 13287.3 | 13259.8 | 13186.6 | 13113.4 |
| 7.5°  | 12966.9 | 13053.9 | 13081.3 | 13191.2 | 13374.3 | 13539.0 | 13662.6 | 13713.0 | 13644.3 | 13539.0 |
| 10°   | 12472.6 | 12568.7 | 12664.8 | 12925.7 | 13250.7 | 13639.7 | 13969.3 | 14166.1 | 14152.4 | 14051.7 |
| 12.5° | 11470.2 | 11570.9 | 11776.9 | 12284.9 | 12879.9 | 13566.5 | 14179.8 | 14591.8 | 14733.7 | 14660.4 |
| 15°   | 10669.2 | 10756.2 | 10911.8 | 11433.6 | 12207.1 | 13250.7 | 14257.6 | 15058.6 | 15420.2 | 15379.0 |
| 17.5° | 10646.3 | 10682.9 | 10779.0 | 11026.2 | 11621.2 | 12756.4 | 14175.2 | 15516.3 | 16207.5 | 16202.9 |
| 20°   | 11049.1 | 11062.8 | 11117.8 | 11168.1 | 11506.8 | 12381.0 | 13964.7 | 15896.2 | 17090.9 | 17090.9 |
| 22.5° | 11607.5 | 11598.3 | 11653.3 | 11607.5 | 11772.3 | 12349.0 | 13832.0 | 16230.4 | 18074.9 | 18148.2 |
| 25°   | 12445.1 | 12399.3 | 12385.6 | 12280.3 | 12312.4 | 12646.5 | 13978.4 | 16610.3 | 19242.1 | 19393.1 |
| 27.5° | 13561.9 | 13488.7 | 13438.3 | 13195.8 | 13113.4 | 13259.8 | 14427.0 | 17068.0 | 20542.0 | 20802.9 |
| 30°   | 15017.4 | 14884.7 | 14811.5 | 14390.4 | 14092.9 | 14115.7 | 15104.4 | 17676.7 | 21901.4 | 22322.5 |
| 32.5° | 17003.9 | 16797.9 | 16601.1 | 15910.0 | 15365.3 | 15186.8 | 15978.6 | 18518.9 | 23375.2 | 24048.0 |
| 35°   | 19228.4 | 19063.6 | 18853.0 | 17786.6 | 16949.0 | 16537.0 | 17159.5 | 19695.2 | 25100.8 | 26167.2 |
| 37.5° | 21370.4 | 21228.5 | 21329.2 | 19892.0 | 18811.8 | 18212.2 | 18706.6 | 21274.3 | 27229.1 | 28803.6 |
| 40°   | 23585.7 | 23475.9 | 23489.6 | 22116.5 | 20857.8 | 20185.0 | 20583.2 | 23256.2 | 29668.7 | 31938.9 |
| 42.5° | 25993.3 | 25910.9 | 25636.3 | 24418.8 | 23004.5 | 22377.4 | 22743.6 | 25544.7 | 32286.8 | 35509.1 |
| 45°   | 28689.2 | 28638.9 | 28382.5 | 26986.5 | 25366.2 | 24661.4 | 25155.7 | 28071.3 | 34918.6 | 38868.7 |
| 47.5° | 31018.9 | 31060.1 | 31028.1 | 29851.8 | 28172.0 | 27137.6 | 27728.0 | 30707.7 | 37367.4 | 42026.8 |
| 50°   | 32140.3 | 32355.5 | 32671.3 | 32305.1 | 31261.5 | 30208.8 | 30323.2 | 33252.6 | 39701.7 | 44988.2 |
| 52.5° | 31554.5 | 31961.8 | 32822.3 | 33408.2 | 33811.0 | 33591.3 | 33284.6 | 35779.1 | 41898.7 | 47661.2 |
| 55°   | 29371.2 | 29943.3 | 31371.4 | 32785.7 | 34840.8 | 36438.2 | 36841.0 | 38580.3 | 44040.8 | 50013.9 |
| 57.5° | 25393.7 | 26322.8 | 27604.4 | 30465.1 | 33925.4 | 37815.9 | 40987.8 | 42466.2 | 46311.0 | 52526.7 |
| 60°   | 18573.8 | 19818.8 | 21411.6 | 25668.3 | 30721.4 | 37079.0 | 44516.8 | 48434.8 | 49537.9 | 55781.0 |
| 62.5° | 11886.7 | 12655.7 | 14120.3 | 18129.9 | 23938.2 | 33302.9 | 45597.0 | 55895.4 | 55007.5 | 61117.9 |
| 65°   | 8138.1  | 8632.4  | 9973.5  | 12225.4 | 15475.1 | 24789.5 | 42704.3 | 61488.6 | 63694.8 | 69576.4 |
| 67.5° | 5913.6  | 6288.9  | 7433.2  | 9405.9  | 10083.3 | 14669.6 | 33138.1 | 61232.3 | 72139.5 | 78291.1 |
| 70°   | 4311.6  | 4577.1  | 5538.3  | 7433.2  | 7758.2  | 8161.0  | 20075.1 | 52050.7 | 71956.4 | 80607.1 |
| 72.5° | 3194.8  | 3377.9  | 4023.3  | 5767.1  | 6279.8  | 5510.8  | 9936.9  | 37829.7 | 61831.9 | 72908.5 |
| 75°   | 2311.4  | 2448.7  | 2924.8  | 4412.3  | 5025.6  | 4197.2  | 4957.0  | 22107.3 | 43129.9 | 51286.3 |
| 77.5° | 1766.8  | 1872.0  | 2183.3  | 3231.4  | 4023.3  | 3149.0  | 3075.8  | 10170.3 | 20450.4 | 20551.1 |
| 80°   | 1418.9  | 1487.6  | 1656.9  | 2274.8  | 3085.0  | 2357.2  | 2004.8  | 4105.7  | 6462.9  | 5469.6  |
| 82.5° | 1043.6  | 1158.0  | 1400.6  | 1597.4  | 2206.2  | 1624.9  | 1222.1  | 2073.4  | 2457.9  | 2114.6  |
| 85°   | 595.0   | 672.8   | 846.8   | 1144.3  | 1409.7  | 993.2   | 700.3   | 920.0   | 1144.3  | 938.3   |
| 87.5° | 210.5   | 274.6   | 297.5   | 448.6   | 613.3   | 411.9   | 270.0   | 265.5   | 375.3   | 279.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P944025  
 CATALOG NUMBER: GALN-SB8D-740-U-T2

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12646.5 | 0°    | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 | 12646.5 |
| 12783.8 | 2.5°  | 12738.0 | 12715.2 | 12623.6 | 12500.0 | 12371.9 | 12248.3 | 12207.1 | 12120.1 | 12060.6 | 12028.6 |
| 13081.3 | 5°    | 12994.4 | 12921.1 | 12706.0 | 12431.4 | 12143.0 | 11831.8 | 11612.1 | 11410.7 | 11264.2 | 11126.9 |
| 13488.7 | 7.5°  | 13360.5 | 13232.4 | 12861.6 | 12381.0 | 11868.4 | 11351.2 | 10966.7 | 10673.8 | 10477.0 | 10348.8 |
| 13964.7 | 10°   | 13786.2 | 13589.4 | 13021.8 | 12303.2 | 11511.4 | 10769.9 | 10316.8 | 10065.0 | 9941.4  | 9872.8  |
| 14509.4 | 12.5° | 14275.9 | 13996.7 | 13186.6 | 12124.7 | 10966.7 | 10119.9 | 9808.7  | 9735.5  | 9740.0  | 9744.6  |
| 15195.9 | 15°   | 14880.1 | 14491.1 | 13319.3 | 11735.7 | 10257.3 | 9621.0  | 9566.1  | 9685.1  | 9808.7  | 9868.2  |
| 15974.0 | 17.5° | 15562.1 | 15012.9 | 13342.2 | 11094.9 | 9561.5  | 9300.6  | 9474.6  | 9730.9  | 9918.6  | 10000.9 |
| 16843.7 | 20°   | 16294.4 | 15543.8 | 13177.4 | 10188.6 | 8989.4  | 9039.8  | 9351.0  | 9680.5  | 9886.5  | 9991.8  |
| 17836.9 | 22.5° | 17132.1 | 16111.4 | 12783.8 | 9236.6  | 8522.5  | 8756.0  | 9122.1  | 9442.5  | 9657.7  | 9762.9  |
| 19004.1 | 25°   | 18088.7 | 16747.6 | 12165.9 | 8435.6  | 8119.8  | 8435.6  | 8801.7  | 9067.2  | 9241.1  | 9337.3  |
| 20308.6 | 27.5° | 19150.5 | 17411.3 | 11342.0 | 7799.4  | 7767.3  | 8106.0  | 8408.1  | 8614.1  | 8705.6  | 8778.9  |
| 21695.4 | 30°   | 20217.0 | 18015.4 | 10344.2 | 7318.8  | 7460.7  | 7781.1  | 7996.2  | 8087.7  | 8115.2  | 8128.9  |
| 23242.5 | 32.5° | 21370.4 | 18537.2 | 9296.1  | 6920.6  | 7167.7  | 7465.2  | 7593.4  | 7634.6  | 7506.4  | 7419.5  |
| 25119.1 | 35°   | 22766.4 | 19095.6 | 8270.8  | 6604.7  | 6879.4  | 7135.7  | 7176.9  | 7140.3  | 6989.2  | 6810.7  |
| 27471.7 | 37.5° | 24492.0 | 19791.3 | 7451.5  | 6380.5  | 6609.3  | 6778.7  | 6728.3  | 6719.2  | 6732.9  | 6522.4  |
| 30300.3 | 40°   | 26606.6 | 20697.6 | 6851.9  | 6206.5  | 6389.6  | 6426.2  | 6284.3  | 6362.2  | 6430.8  | 6110.4  |
| 33403.6 | 42.5° | 28954.7 | 21791.5 | 6472.0  | 6087.5  | 6206.5  | 6119.6  | 5899.9  | 5986.8  | 5977.7  | 5556.6  |
| 36520.6 | 45°   | 31348.5 | 22981.6 | 6339.3  | 6000.6  | 6037.2  | 5863.3  | 5620.7  | 5643.6  | 5451.3  | 5071.4  |
| 39509.4 | 47.5° | 33728.6 | 24258.6 | 6421.7  | 5927.3  | 5826.6  | 5629.8  | 5442.2  | 5341.5  | 5057.7  | 4773.9  |
| 42374.7 | 50°   | 36062.9 | 25599.7 | 6723.7  | 5780.9  | 5538.3  | 5423.9  | 5286.5  | 5108.0  | 4805.9  | 4563.4  |
| 45084.3 | 52.5° | 38227.9 | 26949.9 | 7062.5  | 5538.3  | 5176.7  | 5245.3  | 5158.4  | 4952.4  | 4654.9  | 4407.7  |
| 47647.5 | 55°   | 40278.4 | 28300.2 | 7195.2  | 5204.2  | 4838.0  | 5089.7  | 5039.4  | 4659.5  | 4302.5  | 4101.1  |
| 50329.7 | 57.5° | 42512.0 | 29925.0 | 7048.7  | 4778.5  | 4563.4  | 4911.2  | 4719.0  | 4297.9  | 4091.9  | 3940.9  |
| 53822.0 | 60°   | 45606.1 | 32474.5 | 6732.9  | 4252.1  | 4302.5  | 4645.7  | 4316.2  | 4142.3  | 3918.0  | 3748.6  |
| 59058.2 | 62.5° | 50746.2 | 37230.1 | 6224.8  | 3730.3  | 3995.8  | 4252.1  | 4124.0  | 3950.0  | 3721.2  | 3556.4  |
| 68011.0 | 65°   | 58344.2 | 43839.4 | 5268.2  | 3323.0  | 3652.5  | 3867.6  | 3918.0  | 3744.1  | 3506.1  | 3332.1  |
| 75856.1 | 67.5° | 64752.1 | 47986.2 | 3986.6  | 2984.3  | 3300.1  | 3556.4  | 3698.3  | 3528.9  | 3277.2  | 3107.8  |
| 77691.5 | 70°   | 64399.7 | 44974.5 | 3043.8  | 2650.1  | 2988.8  | 3249.7  | 3432.8  | 3300.1  | 3030.0  | 2869.8  |
| 70569.6 | 72.5° | 57199.9 | 37623.7 | 2462.5  | 2311.4  | 2673.0  | 2929.3  | 3149.0  | 3048.3  | 2773.7  | 2618.1  |
| 51698.2 | 75°   | 42022.3 | 26707.3 | 1968.1  | 1968.1  | 2279.4  | 2595.2  | 2837.8  | 2773.7  | 2522.0  | 2412.1  |
| 21704.6 | 77.5° | 17713.3 | 11204.7 | 1542.5  | 1634.0  | 1894.9  | 2229.0  | 2531.1  | 2554.0  | 2334.3  | 2471.6  |
| 5739.7  | 80°   | 4709.8  | 3089.5  | 1176.3  | 1286.2  | 1487.6  | 1840.0  | 2201.6  | 2192.4  | 1954.4  | 1826.3  |
| 2132.9  | 82.5° | 1794.2  | 1217.5  | 837.6   | 906.3   | 1075.6  | 1409.7  | 1743.9  | 1798.8  | 1560.8  | 1350.2  |
| 837.6   | 85°   | 691.1   | 521.8   | 517.2   | 544.7   | 627.1   | 933.7   | 1318.2  | 1364.0  | 1176.3  | 997.8   |
| 233.4   | 87.5° | 178.5   | 155.6   | 192.2   | 183.1   | 288.4   | 498.9   | 755.2   | 782.7   | 718.6   | 416.5   |
| 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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180°  
12646.5  
12065.2  
11181.8  
10376.3  
9891.1  
9753.8  
9863.6  
10019.3  
10019.3  
9790.4  
9364.7  
8806.3  
8161.0  
7446.9  
6819.9  
6536.1  
6119.6  
5552.0  
5085.1  
4773.9  
4545.1  
4412.3  
4082.8  
3927.1  
3739.5  
3556.4  
3341.3  
3112.4  
2883.6  
2618.1  
2380.1  
2242.8  
1698.1  
1350.2  
1029.8  
595.0  
0.0

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