

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: P646794

Luminaire Tested: **GALN-SA2C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9285.6 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

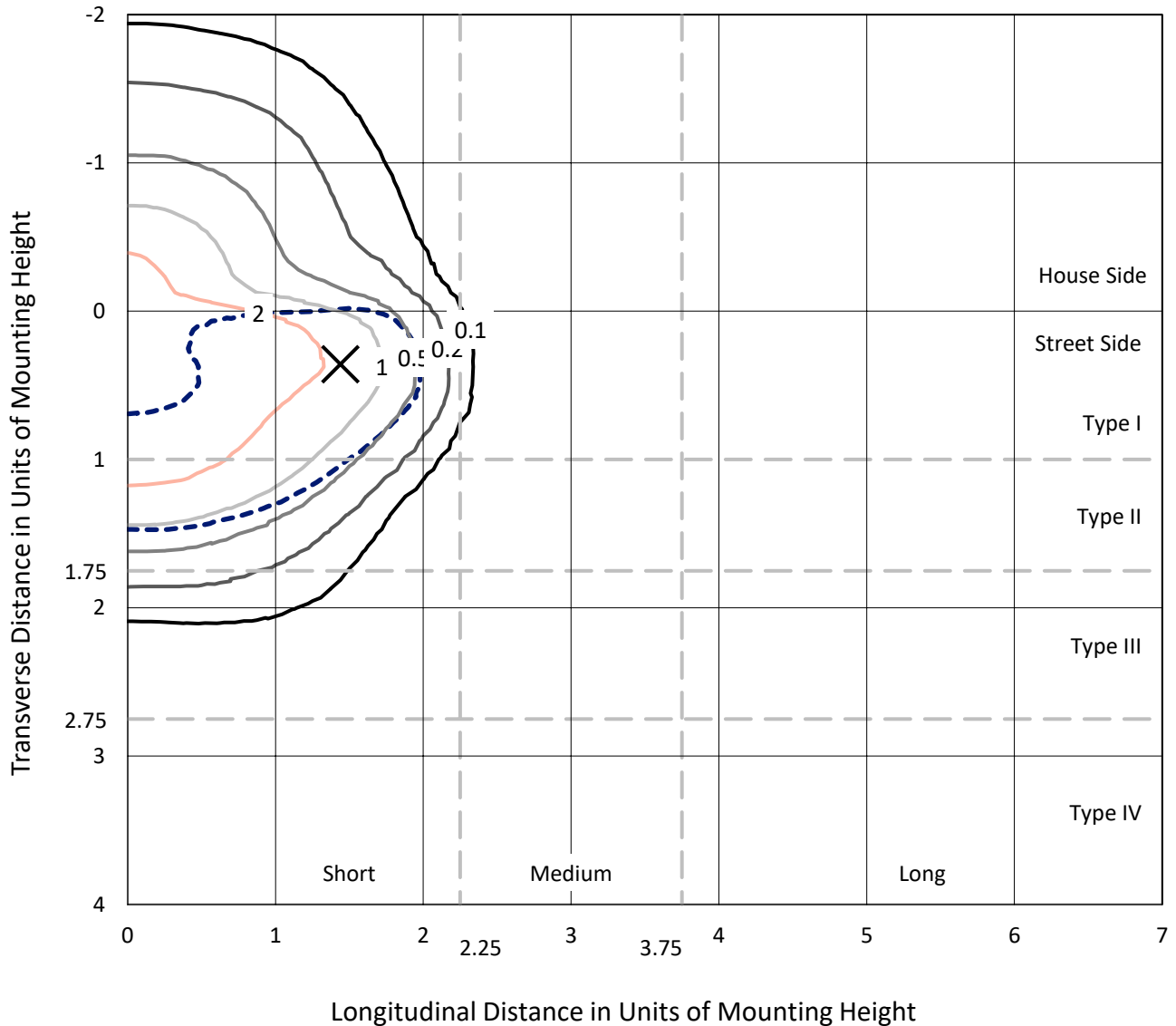
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

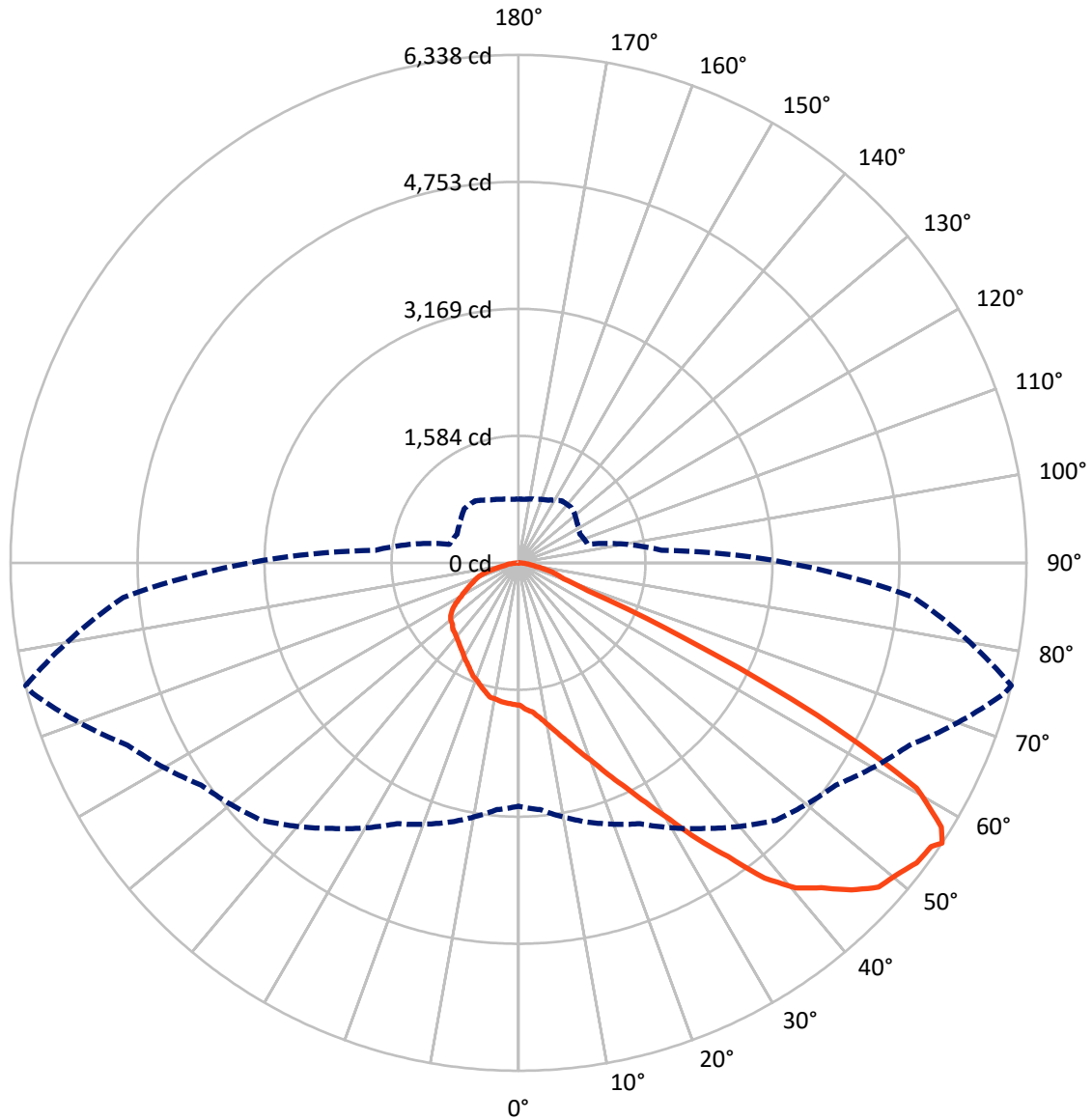
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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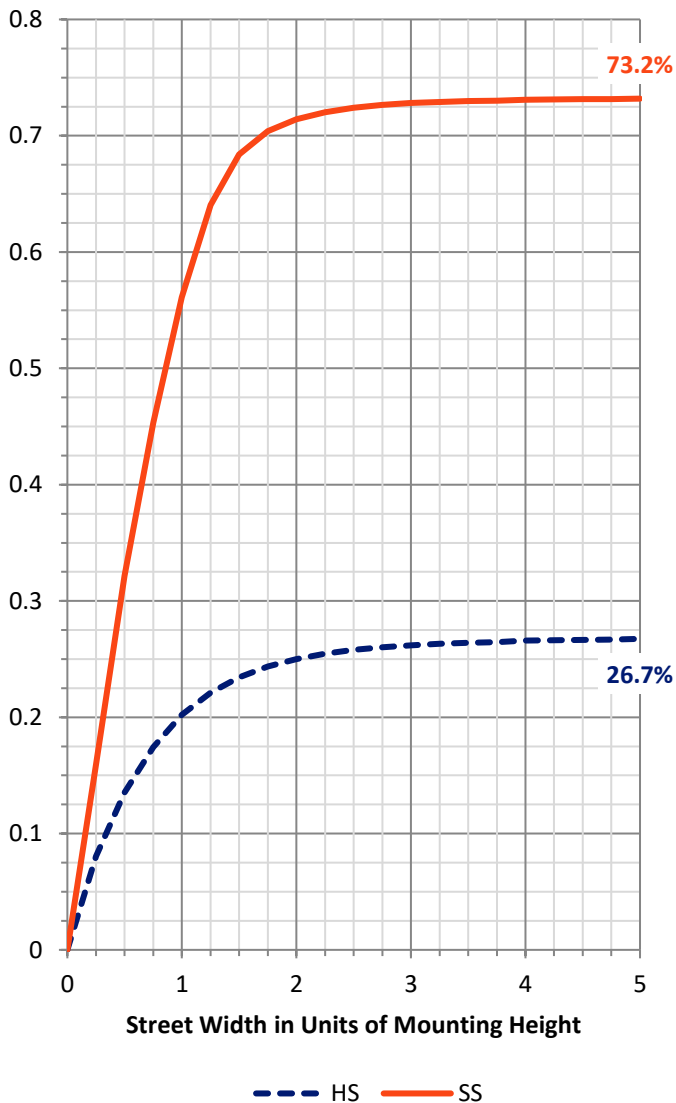
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2496.6 | 0.0 | 2496.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 6789.0 | 0.0 | 6789.0 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 9285.6 | 0.0 | 9285.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.2 | 1.9 |
| 10°-20° | 553.5 | 6.0 |
| 20°-30° | 968.0 | 10.4 |
| 30°-40° | 1515.5 | 16.3 |
| 40°-50° | 2204.7 | 23.7 |
| 50°-60° | 2423.1 | 26.1 |
| 60°-70° | 1081.6 | 11.6 |
| 70°-80° | 312.4 | 3.4 |
| 80°-90° | 50.7 | 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° | 9285.6 | 100.0 |
| 0°-180° | 9285.6 | 100.0 |



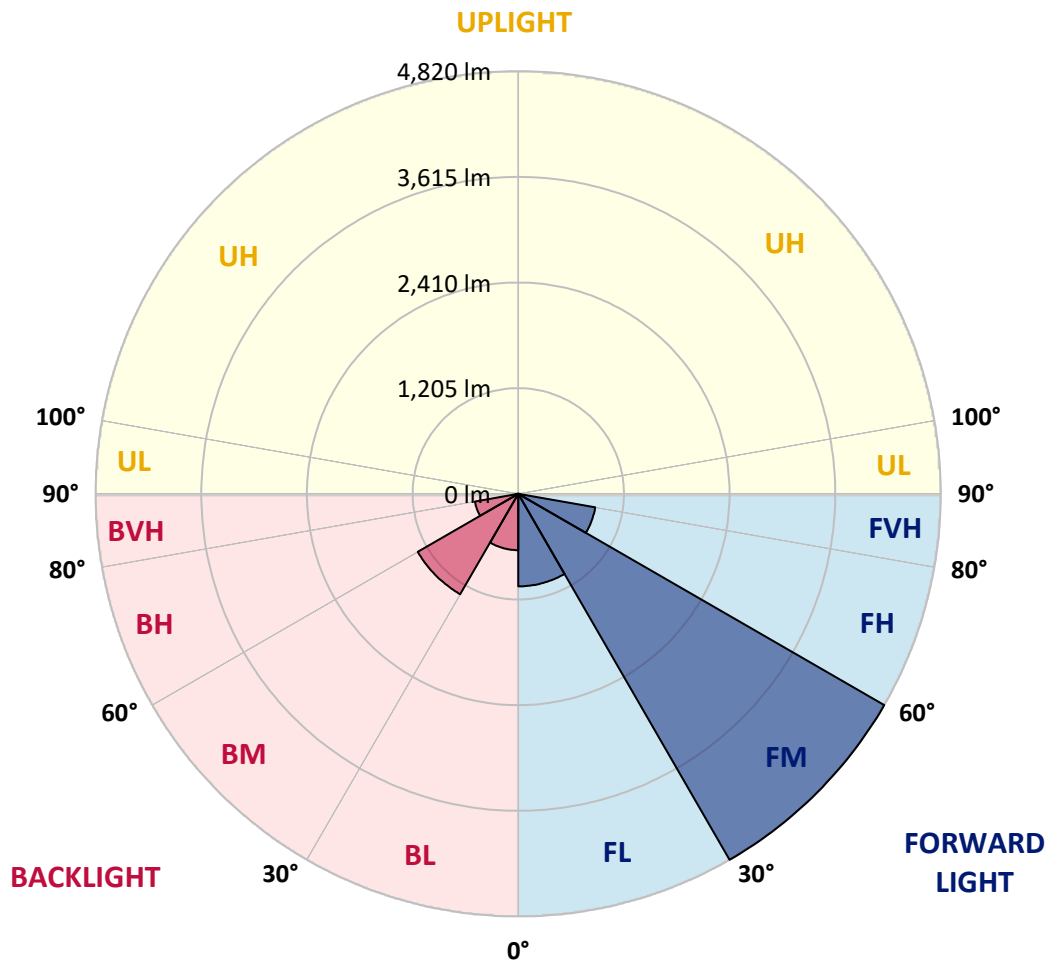
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1055.2 | 11.4 | | | |
| FM (30°-60°) | 4820.3 | 51.9 | | | |
| FH (60°-80°) | 891.6 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 21.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 642.4 | 6.9 | B2/1000 | | |
| BM (30°-60°) | 1323.0 | 14.2 | B2/2500 | | |
| BH (60°-80°) | 502.3 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 |
| 2.5° | 1957.3 | 1925.9 | 1923.5 | 1915.1 | 1919.9 | 1898.2 | 1875.4 | 1845.3 | 1814.0 | 1833.2 | 1787.5 |
| 5° | 2094.4 | 2052.3 | 2069.2 | 2040.3 | 2043.9 | 2015.1 | 1968.1 | 1933.1 | 1894.6 | 1871.8 | 1839.3 |
| 7.5° | 2142.6 | 2146.2 | 2158.3 | 2153.4 | 2129.4 | 2129.4 | 2098.0 | 2036.7 | 1969.2 | 1956.0 | 1901.8 |
| 10° | 2207.6 | 2208.8 | 2195.6 | 2199.2 | 2232.9 | 2217.2 | 2189.6 | 2163.0 | 2076.4 | 2060.8 | 1964.5 |
| 12.5° | 2230.5 | 2208.8 | 2230.5 | 2249.7 | 2289.5 | 2311.1 | 2305.1 | 2285.8 | 2193.2 | 2182.3 | 2041.5 |
| 15° | 2234.1 | 2220.8 | 2238.9 | 2282.2 | 2317.1 | 2408.7 | 2454.4 | 2441.2 | 2318.4 | 2319.6 | 2128.2 |
| 17.5° | 2217.2 | 2235.3 | 2242.5 | 2279.9 | 2360.5 | 2445.9 | 2578.3 | 2596.4 | 2495.3 | 2479.7 | 2237.7 |
| 20° | 2240.1 | 2226.9 | 2236.5 | 2270.2 | 2377.3 | 2510.9 | 2684.3 | 2803.5 | 2661.4 | 2650.6 | 2350.9 |
| 22.5° | 2328.0 | 2309.9 | 2307.5 | 2329.2 | 2406.2 | 2544.7 | 2796.2 | 3010.5 | 2863.7 | 2869.6 | 2491.7 |
| 25° | 2396.6 | 2406.2 | 2397.8 | 2396.6 | 2444.8 | 2595.2 | 2944.3 | 3257.3 | 3138.1 | 3103.2 | 2657.8 |
| 27.5° | 2514.5 | 2537.4 | 2520.6 | 2543.4 | 2532.6 | 2671.0 | 3050.2 | 3530.5 | 3434.2 | 3387.3 | 2808.2 |
| 30° | 2678.3 | 2690.3 | 2674.6 | 2674.6 | 2642.2 | 2777.0 | 3146.5 | 3815.8 | 3776.0 | 3712.3 | 2985.2 |
| 32.5° | 2893.7 | 2911.7 | 2880.5 | 2862.4 | 2857.6 | 2934.7 | 3319.8 | 4097.4 | 4164.9 | 4110.7 | 3219.9 |
| 35° | 3179.0 | 3168.2 | 3130.8 | 3114.0 | 3049.0 | 3176.6 | 3577.4 | 4421.2 | 4598.2 | 4501.9 | 3504.0 |
| 37.5° | 3430.6 | 3413.7 | 3411.3 | 3317.4 | 3333.1 | 3437.8 | 3796.5 | 4666.8 | 5018.2 | 4990.6 | 3803.7 |
| 40° | 3665.3 | 3681.0 | 3706.3 | 3653.2 | 3629.2 | 3744.8 | 4051.7 | 4854.6 | 5344.4 | 5333.6 | 4034.9 |
| 42.5° | 3916.9 | 3902.5 | 3946.9 | 3902.5 | 3866.3 | 4030.0 | 4328.6 | 4984.6 | 5630.9 | 5541.9 | 4276.8 |
| 45° | 4281.6 | 4235.9 | 4251.5 | 4255.1 | 4228.7 | 4288.8 | 4442.9 | 5078.5 | 5832.0 | 5822.4 | 4453.7 |
| 47.5° | 4586.1 | 4587.4 | 4560.9 | 4540.4 | 4459.7 | 4519.9 | 4570.5 | 5137.4 | 6063.1 | 6047.4 | 4522.4 |
| 50° | 4699.3 | 4683.7 | 4760.7 | 4805.2 | 4810.0 | 4687.3 | 4670.4 | 5169.9 | 6184.7 | 6116.1 | 4591.0 |
| 52.5° | 4292.4 | 4306.9 | 4428.5 | 4693.3 | 4846.1 | 4859.4 | 4787.2 | 5237.3 | 6234.0 | 6219.6 | 4646.3 |
| 55° | 3454.7 | 3524.4 | 3724.3 | 4030.0 | 4392.3 | 4790.8 | 4913.6 | 5307.2 | 6260.5 | 6248.5 | 4891.9 |
| 56° | 3036.9 | 3091.1 | 3351.2 | 3590.7 | 4045.7 | 4541.6 | 4834.1 | 5381.8 | 6281.0 | 6337.5 | 4949.7 |
| 57.5° | 2444.8 | 2507.3 | 2693.9 | 2965.9 | 3502.8 | 4067.4 | 4615.0 | 5290.3 | 6201.5 | 6223.2 | 4991.8 |
| 60° | 1528.7 | 1534.8 | 1758.6 | 1938.0 | 2316.0 | 2867.3 | 3522.1 | 4603.0 | 5739.3 | 5708.0 | 4483.8 |
| 62.5° | 1002.7 | 1003.9 | 1207.3 | 1354.2 | 1526.3 | 1652.7 | 2072.8 | 3052.6 | 4234.7 | 4179.3 | 3192.2 |
| 65° | 704.2 | 719.8 | 877.5 | 1073.7 | 1143.5 | 1077.3 | 1064.1 | 1609.4 | 2365.3 | 2285.8 | 1715.3 |
| 67.5° | 515.2 | 516.4 | 656.0 | 866.7 | 967.8 | 819.7 | 665.6 | 786.1 | 936.5 | 934.1 | 794.4 |
| 70° | 340.7 | 355.1 | 462.2 | 647.6 | 763.2 | 658.4 | 544.1 | 562.1 | 595.9 | 595.9 | 591.0 |
| 72.5° | 198.6 | 211.9 | 282.9 | 410.4 | 428.5 | 411.7 | 431.0 | 481.5 | 503.2 | 502.0 | 496.0 |
| 75° | 113.1 | 119.2 | 134.8 | 170.9 | 213.1 | 251.6 | 316.6 | 364.7 | 386.4 | 399.6 | 384.0 |
| 77.5° | 66.2 | 69.8 | 79.5 | 97.5 | 110.7 | 136.0 | 172.1 | 205.9 | 234.7 | 231.1 | 233.5 |
| 80° | 34.9 | 34.9 | 44.6 | 57.8 | 77.0 | 96.3 | 114.3 | 133.6 | 149.2 | 152.8 | 156.5 |
| 82.5° | 20.4 | 21.7 | 28.9 | 42.1 | 55.4 | 68.6 | 87.9 | 101.1 | 115.6 | 116.7 | 119.2 |
| 85° | 10.8 | 12.1 | 18.1 | 27.7 | 37.3 | 42.1 | 43.3 | 41.0 | 44.6 | 42.1 | 48.2 |
| 87.5° | 3.6 | 3.6 | 6.0 | 4.8 | 4.8 | 6.0 | 7.2 | 7.2 | 9.6 | 9.6 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA2C-835-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 | 1776.7 |
| 2.5° | 1786.3 | 1786.3 | 1765.8 | 1727.3 | 1721.3 | 1705.7 | 1691.2 | 1690.0 | 1679.1 | 1669.5 | 1664.7 |
| 5° | 1820.0 | 1782.7 | 1752.6 | 1717.7 | 1676.8 | 1657.5 | 1635.8 | 1611.8 | 1602.2 | 1611.8 | 1610.6 |
| 7.5° | 1858.5 | 1827.2 | 1736.9 | 1671.9 | 1625.0 | 1605.8 | 1581.7 | 1556.4 | 1558.8 | 1558.8 | 1542.0 |
| 10° | 1895.9 | 1853.8 | 1709.3 | 1626.2 | 1557.6 | 1543.1 | 1529.9 | 1539.5 | 1551.6 | 1554.0 | 1543.1 |
| 12.5° | 1958.4 | 1863.4 | 1696.1 | 1580.5 | 1537.1 | 1505.9 | 1514.2 | 1540.8 | 1566.0 | 1558.8 | 1567.3 |
| 15° | 2005.4 | 1871.8 | 1635.8 | 1533.5 | 1479.4 | 1493.8 | 1523.9 | 1542.0 | 1584.1 | 1579.2 | 1587.7 |
| 17.5° | 2051.1 | 1876.6 | 1576.9 | 1470.9 | 1448.1 | 1487.8 | 1510.6 | 1562.4 | 1575.6 | 1604.5 | 1615.4 |
| 20° | 2145.0 | 1886.2 | 1516.7 | 1432.4 | 1425.2 | 1470.9 | 1510.6 | 1534.8 | 1563.7 | 1588.9 | 1588.9 |
| 22.5° | 2193.2 | 1881.4 | 1477.0 | 1381.8 | 1404.7 | 1433.6 | 1469.8 | 1510.6 | 1510.6 | 1534.8 | 1535.9 |
| 25° | 2253.3 | 1862.1 | 1414.3 | 1357.8 | 1374.6 | 1402.4 | 1443.2 | 1428.8 | 1444.5 | 1444.5 | 1463.7 |
| 27.5° | 2322.0 | 1821.2 | 1360.2 | 1314.4 | 1348.2 | 1378.2 | 1384.3 | 1374.6 | 1356.5 | 1354.2 | 1346.9 |
| 30° | 2377.3 | 1770.7 | 1320.5 | 1300.0 | 1327.7 | 1344.6 | 1325.3 | 1304.8 | 1273.5 | 1271.1 | 1254.3 |
| 32.5° | 2453.1 | 1708.0 | 1271.1 | 1263.9 | 1295.2 | 1296.4 | 1290.4 | 1259.1 | 1213.3 | 1194.1 | 1174.8 |
| 35° | 2580.8 | 1671.9 | 1233.8 | 1244.7 | 1254.3 | 1250.7 | 1239.8 | 1206.1 | 1160.4 | 1151.9 | 1144.7 |
| 37.5° | 2674.6 | 1645.5 | 1195.2 | 1208.6 | 1216.9 | 1221.8 | 1189.3 | 1151.9 | 1153.1 | 1136.3 | 1131.5 |
| 40° | 2780.6 | 1628.6 | 1164.0 | 1170.0 | 1171.2 | 1186.9 | 1147.2 | 1129.1 | 1137.5 | 1126.7 | 1133.9 |
| 42.5° | 2916.6 | 1633.4 | 1131.5 | 1126.7 | 1149.5 | 1143.5 | 1124.2 | 1100.2 | 1105.0 | 1072.5 | 1077.3 |
| 45° | 2988.8 | 1665.9 | 1112.3 | 1090.6 | 1115.9 | 1114.6 | 1089.4 | 1066.5 | 1037.6 | 975.0 | 977.4 |
| 47.5° | 3036.9 | 1674.4 | 1066.5 | 1052.0 | 1078.5 | 1094.2 | 1065.3 | 1012.3 | 971.4 | 926.8 | 916.0 |
| 50° | 3086.4 | 1690.0 | 1044.8 | 1014.8 | 1025.6 | 1062.8 | 1026.7 | 976.2 | 936.5 | 896.8 | 902.8 |
| 52.5° | 3129.7 | 1720.1 | 1002.7 | 958.2 | 977.4 | 1018.4 | 999.1 | 937.7 | 894.3 | 861.8 | 852.2 |
| 55° | 3322.3 | 1787.5 | 931.7 | 873.9 | 919.6 | 971.4 | 960.6 | 886.0 | 839.0 | 822.2 | 819.7 |
| 56° | 3352.3 | 1789.9 | 894.3 | 845.0 | 887.1 | 955.7 | 942.5 | 863.1 | 820.9 | 794.4 | 795.7 |
| 57.5° | 3357.2 | 1761.0 | 841.4 | 818.5 | 854.6 | 932.9 | 916.0 | 845.0 | 787.2 | 763.2 | 755.9 |
| 60° | 2953.9 | 1374.6 | 775.2 | 760.8 | 802.9 | 863.1 | 857.1 | 795.7 | 730.6 | 703.0 | 716.2 |
| 62.5° | 2013.8 | 1007.5 | 723.4 | 721.0 | 742.7 | 801.6 | 786.1 | 730.6 | 676.5 | 658.4 | 650.0 |
| 65° | 1172.4 | 764.4 | 672.9 | 663.3 | 681.3 | 712.6 | 723.4 | 665.6 | 609.1 | 597.0 | 593.4 |
| 67.5° | 692.2 | 632.0 | 607.8 | 592.3 | 586.2 | 605.5 | 613.9 | 580.2 | 523.6 | 506.8 | 521.2 |
| 70° | 579.0 | 562.1 | 563.4 | 536.8 | 522.4 | 509.2 | 502.0 | 471.8 | 424.9 | 403.2 | 397.2 |
| 72.5° | 499.6 | 492.4 | 487.5 | 463.5 | 450.2 | 420.1 | 388.8 | 358.7 | 323.8 | 305.8 | 306.9 |
| 75° | 381.6 | 379.2 | 381.6 | 369.6 | 346.6 | 322.6 | 293.7 | 255.2 | 228.7 | 205.9 | 210.6 |
| 77.5° | 227.5 | 234.7 | 238.3 | 233.5 | 223.9 | 202.2 | 184.2 | 158.9 | 133.6 | 115.6 | 113.1 |
| 80° | 156.5 | 162.5 | 168.5 | 162.5 | 152.8 | 137.3 | 118.0 | 98.7 | 80.6 | 71.0 | 68.6 |
| 82.5° | 119.2 | 125.2 | 128.8 | 122.8 | 110.7 | 93.9 | 80.6 | 67.4 | 52.9 | 43.3 | 41.0 |
| 85° | 43.3 | 49.3 | 48.2 | 57.8 | 62.6 | 60.2 | 51.8 | 39.7 | 30.1 | 21.7 | 20.4 |
| 87.5° | 12.1 | 10.8 | 12.1 | 12.1 | 12.1 | 10.8 | 9.6 | 9.6 | 9.6 | 6.0 | 4.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)