

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: P526075

Luminaire Tested: **GALN-SA1A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

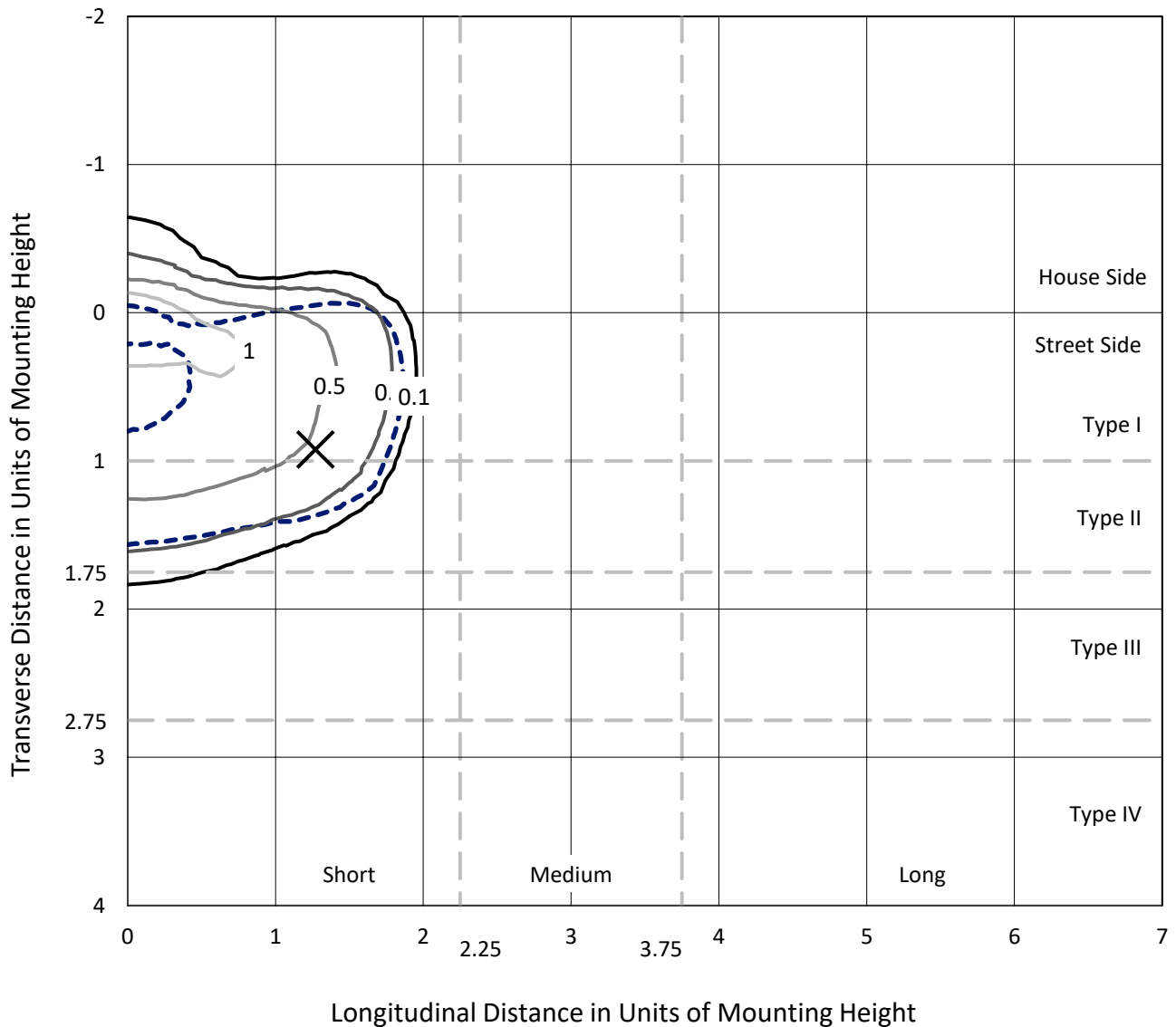
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

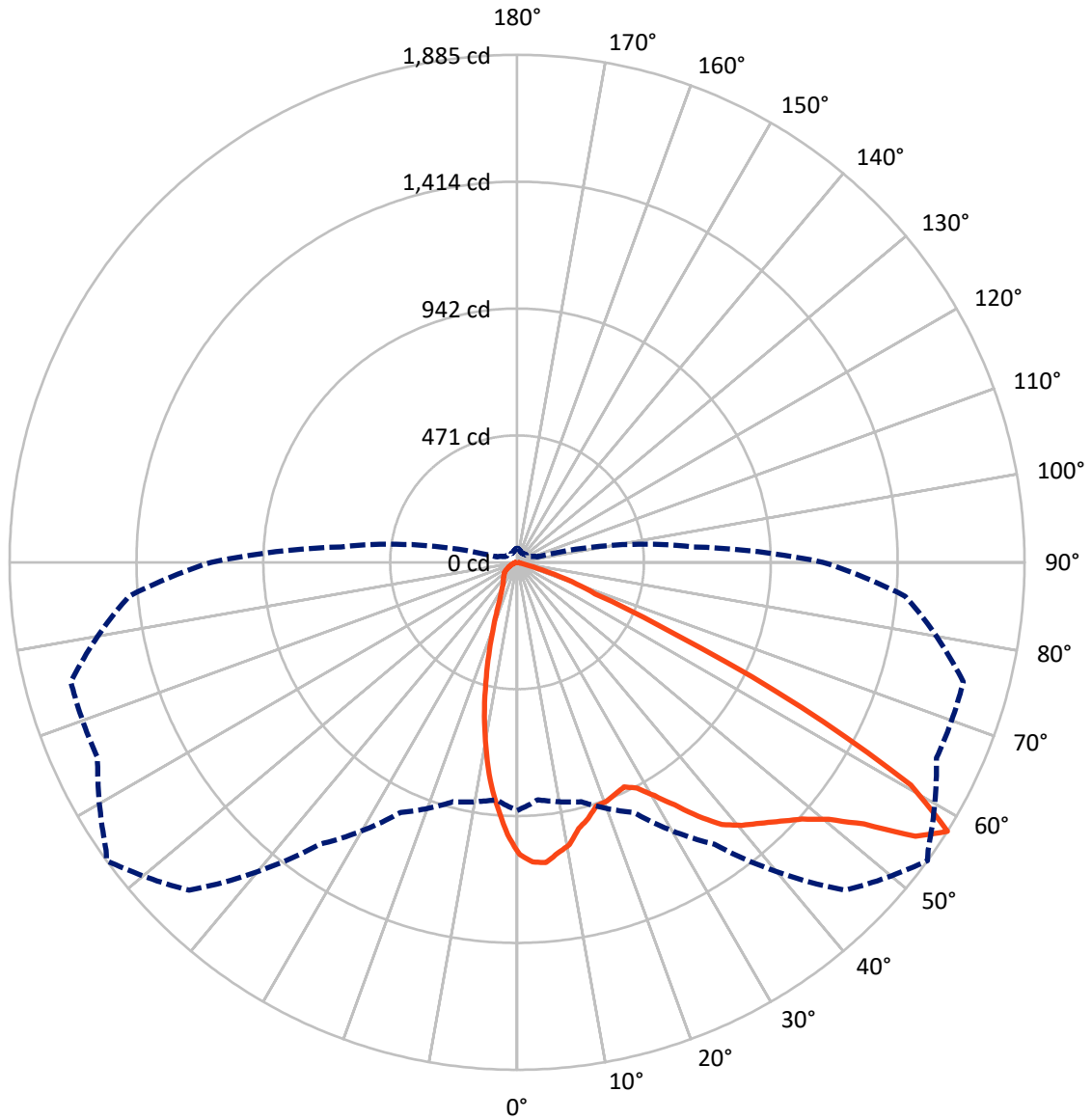
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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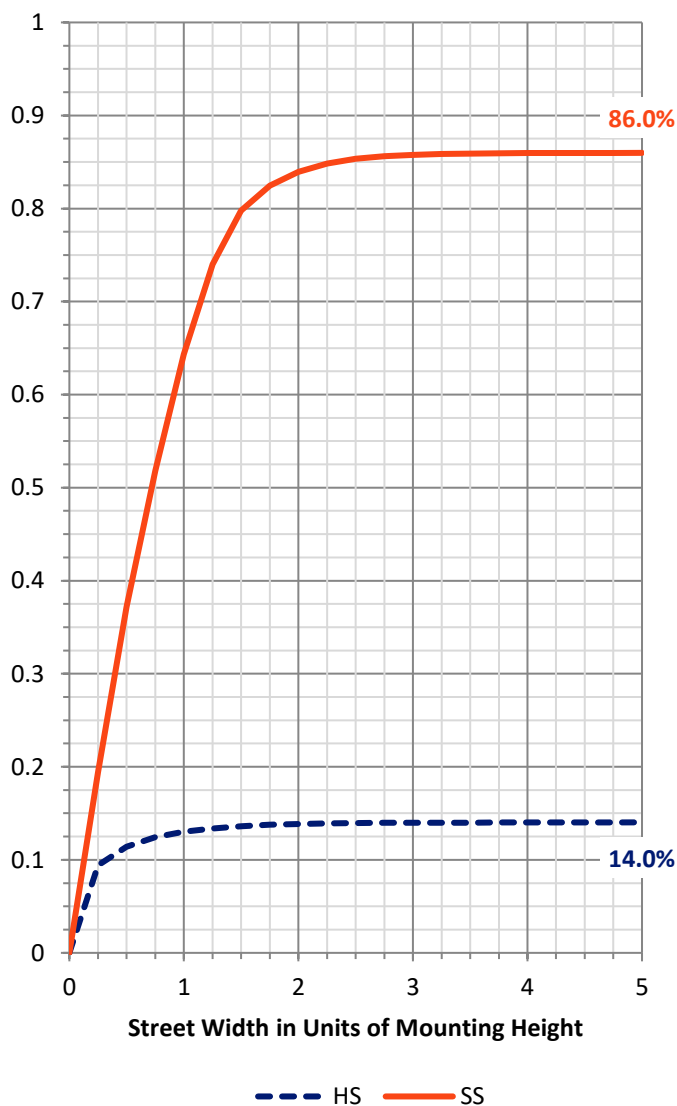
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 348.2 | 0.0 | 348.2 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 2115.8 | 0.0 | 2115.8 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 2464.0 | 0.0 | 2464.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.8 | 3.7 |
| 10°-20° | 193.9 | 7.9 |
| 20°-30° | 257.0 | 10.4 |
| 30°-40° | 373.5 | 15.2 |
| 40°-50° | 553.8 | 22.5 |
| 50°-60° | 692.5 | 28.1 |
| 60°-70° | 273.2 | 11.1 |
| 70°-80° | 27.2 | 1.1 |
| 80°-90° | 2.1 | 0.1 |
| 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° | 2464.0 | 100.0 |
| 0°-180° | 2464.0 | 100.0 |

Coefficient of Utilization

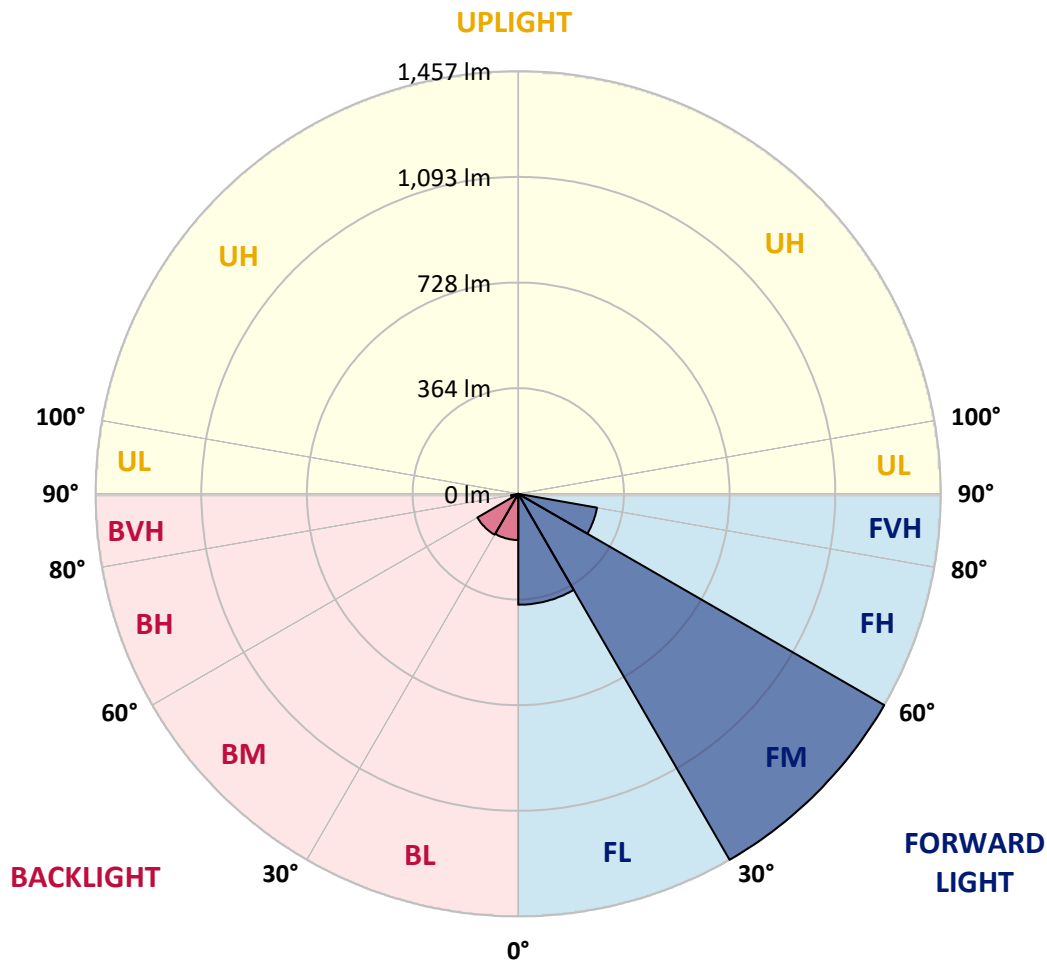


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 382.5 | 15.5 | | | |
| FM (30°-60°) | 1457.0 | 59.1 | | | |
| FH (60°-80°) | 275.4 | 11.2 | | | G0/660 |
| FVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 159.3 | 6.5 | B1/500 | | |
| BM (30°-60°) | 162.8 | 6.6 | B0/220 | | |
| BH (60°-80°) | 25.0 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 |
| 2.5° | 1148.7 | 1136.7 | 1137.7 | 1133.5 | 1128.0 | 1132.2 | 1114.3 | 1118.4 | 1118.0 | 1093.7 | 1077.6 |
| 5° | 1119.8 | 1132.6 | 1119.3 | 1130.3 | 1119.8 | 1131.2 | 1120.2 | 1112.0 | 1098.7 | 1080.8 | 1051.1 |
| 7.5° | 1070.8 | 1058.4 | 1062.1 | 1075.8 | 1078.1 | 1103.8 | 1090.0 | 1100.5 | 1095.0 | 1059.8 | 1019.0 |
| 10° | 972.3 | 969.5 | 987.8 | 1006.2 | 1028.6 | 1056.1 | 1066.6 | 1060.7 | 1056.6 | 1043.3 | 988.7 |
| 12.5° | 896.7 | 904.4 | 904.0 | 934.2 | 972.3 | 987.8 | 1015.3 | 1014.4 | 1037.3 | 1012.6 | 960.3 |
| 15° | 824.7 | 828.8 | 848.1 | 866.9 | 909.0 | 953.5 | 987.4 | 992.0 | 1019.4 | 1002.0 | 938.3 |
| 17.5° | 780.7 | 774.8 | 789.9 | 812.4 | 855.4 | 913.6 | 951.2 | 962.2 | 999.7 | 996.1 | 913.2 |
| 20° | 737.2 | 737.2 | 749.6 | 776.2 | 815.6 | 881.1 | 948.0 | 944.8 | 999.7 | 989.2 | 886.1 |
| 22.5° | 722.5 | 729.9 | 733.1 | 753.2 | 800.0 | 856.3 | 934.2 | 940.2 | 1007.5 | 986.0 | 874.2 |
| 25° | 742.7 | 733.1 | 734.0 | 750.0 | 794.0 | 844.4 | 924.1 | 937.4 | 1021.7 | 1002.0 | 864.6 |
| 27.5° | 745.9 | 755.5 | 758.3 | 769.3 | 798.6 | 848.1 | 949.3 | 976.4 | 1057.0 | 1039.6 | 867.3 |
| 30° | 773.9 | 783.5 | 783.0 | 801.8 | 822.0 | 877.9 | 1005.7 | 1011.2 | 1129.9 | 1086.8 | 884.3 |
| 32.5° | 807.8 | 817.8 | 821.1 | 843.0 | 859.1 | 932.4 | 1074.4 | 1088.6 | 1200.0 | 1161.0 | 928.7 |
| 35° | 849.9 | 846.3 | 860.9 | 882.9 | 917.3 | 1012.1 | 1158.3 | 1182.1 | 1275.6 | 1257.2 | 974.5 |
| 37.5° | 902.6 | 898.0 | 912.2 | 948.0 | 994.7 | 1106.5 | 1235.7 | 1251.3 | 1330.6 | 1346.6 | 1059.3 |
| 40° | 939.7 | 941.6 | 984.6 | 1032.7 | 1082.2 | 1196.3 | 1284.7 | 1299.9 | 1369.0 | 1430.0 | 1123.5 |
| 42.5° | 1001.6 | 1013.0 | 1064.8 | 1123.5 | 1175.2 | 1263.7 | 1324.6 | 1339.3 | 1386.9 | 1496.9 | 1210.0 |
| 45° | 1091.4 | 1086.3 | 1143.6 | 1209.1 | 1266.4 | 1333.8 | 1371.8 | 1366.7 | 1397.4 | 1563.3 | 1264.6 |
| 47.5° | 1206.8 | 1207.8 | 1245.8 | 1301.7 | 1361.2 | 1394.7 | 1424.5 | 1406.6 | 1419.4 | 1633.4 | 1337.4 |
| 50° | 1285.6 | 1292.5 | 1323.2 | 1380.5 | 1410.3 | 1461.6 | 1499.6 | 1488.6 | 1484.5 | 1675.6 | 1383.2 |
| 52.5° | 1305.8 | 1326.4 | 1342.9 | 1414.4 | 1484.0 | 1565.1 | 1613.7 | 1637.1 | 1563.8 | 1689.8 | 1441.4 |
| 55° | 1153.7 | 1172.0 | 1230.2 | 1328.3 | 1512.0 | 1729.2 | 1796.1 | 1796.5 | 1667.3 | 1753.0 | 1482.2 |
| 57.5° | 922.3 | 885.2 | 920.9 | 1024.9 | 1278.3 | 1722.3 | 1884.9 | 1863.4 | 1719.1 | 1715.9 | 1446.9 |
| 60° | 637.8 | 628.6 | 630.9 | 672.1 | 884.7 | 1370.0 | 1679.7 | 1707.6 | 1583.0 | 1487.2 | 1145.4 |
| 62.5° | 505.4 | 497.6 | 487.5 | 482.9 | 549.4 | 853.6 | 1184.8 | 1224.3 | 1107.0 | 964.5 | 679.0 |
| 65° | 395.9 | 391.3 | 392.7 | 411.0 | 410.5 | 484.3 | 647.9 | 631.8 | 505.8 | 373.9 | 213.5 |
| 67.5° | 267.1 | 274.0 | 279.5 | 334.9 | 363.3 | 337.2 | 312.9 | 303.8 | 164.5 | 69.2 | 47.2 |
| 70° | 150.3 | 151.2 | 157.2 | 209.4 | 275.8 | 261.6 | 215.8 | 215.8 | 82.0 | 25.2 | 27.0 |
| 72.5° | 82.0 | 79.3 | 73.8 | 90.3 | 122.8 | 124.6 | 96.2 | 83.8 | 24.3 | 16.5 | 15.1 |
| 75° | 39.9 | 39.4 | 33.9 | 27.9 | 26.6 | 22.0 | 17.0 | 15.6 | 11.0 | 10.5 | 9.2 |
| 77.5° | 8.2 | 7.8 | 4.1 | 4.1 | 4.6 | 5.0 | 6.4 | 6.4 | 7.8 | 7.8 | 6.4 |
| 80° | 0.0 | 0.0 | 0.5 | 1.8 | 3.2 | 4.6 | 5.5 | 5.5 | 6.4 | 6.4 | 5.0 |
| 82.5° | 0.0 | 0.0 | 0.5 | 1.4 | 2.7 | 4.1 | 5.0 | 5.5 | 6.4 | 6.9 | 5.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.9 | 2.3 | 3.2 | 2.7 | 2.7 | 2.3 | 1.8 | 0.9 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GALN-SA1A-730-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 | 1085.4 |
| 2.5° | 1069.4 | 1068.5 | 1047.4 | 1035.5 | 1013.9 | 995.2 | 980.0 | 969.0 | 969.0 | 962.2 | 955.8 |
| 5° | 1039.1 | 1031.4 | 986.5 | 957.6 | 916.8 | 886.6 | 866.0 | 849.9 | 824.7 | 831.6 | 804.6 |
| 7.5° | 1001.6 | 981.9 | 922.3 | 878.3 | 822.0 | 778.9 | 734.9 | 696.0 | 658.4 | 641.5 | 650.6 |
| 10° | 961.3 | 926.9 | 846.7 | 777.1 | 707.0 | 628.2 | 576.8 | 514.5 | 476.0 | 473.8 | 463.7 |
| 12.5° | 918.6 | 879.7 | 782.1 | 685.9 | 593.8 | 499.0 | 420.6 | 362.4 | 336.3 | 307.4 | 312.9 |
| 15° | 886.6 | 828.8 | 710.2 | 594.3 | 471.9 | 376.2 | 297.4 | 252.5 | 227.7 | 220.8 | 218.6 |
| 17.5° | 851.8 | 789.9 | 636.9 | 496.7 | 370.2 | 270.8 | 214.0 | 192.4 | 182.8 | 182.8 | 181.4 |
| 20° | 815.6 | 745.9 | 564.0 | 405.9 | 277.7 | 202.1 | 171.4 | 164.5 | 164.0 | 163.6 | 163.6 |
| 22.5° | 791.7 | 695.5 | 498.0 | 322.6 | 209.4 | 161.7 | 148.9 | 146.2 | 148.0 | 153.5 | 153.5 |
| 25° | 766.5 | 646.9 | 425.2 | 248.8 | 162.2 | 138.8 | 131.5 | 133.3 | 137.9 | 143.0 | 141.1 |
| 27.5° | 740.9 | 615.3 | 356.5 | 195.2 | 132.9 | 121.4 | 118.7 | 122.8 | 127.8 | 132.4 | 131.0 |
| 30° | 734.9 | 581.4 | 291.4 | 148.0 | 114.1 | 105.8 | 107.7 | 111.3 | 116.4 | 118.2 | 120.0 |
| 32.5° | 744.1 | 554.9 | 238.7 | 121.4 | 99.4 | 97.1 | 97.1 | 99.0 | 102.2 | 106.3 | 104.9 |
| 35° | 770.2 | 539.7 | 188.8 | 105.4 | 91.2 | 88.9 | 88.4 | 90.3 | 92.1 | 93.5 | 92.1 |
| 37.5° | 810.1 | 527.8 | 154.4 | 93.5 | 85.7 | 82.0 | 81.1 | 80.6 | 82.5 | 82.9 | 83.8 |
| 40° | 860.9 | 534.2 | 131.0 | 86.1 | 80.2 | 76.1 | 73.3 | 73.3 | 73.3 | 74.7 | 75.1 |
| 42.5° | 915.9 | 542.9 | 113.2 | 82.0 | 75.1 | 70.1 | 67.4 | 66.4 | 67.4 | 69.2 | 68.7 |
| 45° | 973.6 | 559.9 | 101.7 | 75.6 | 70.6 | 64.1 | 60.5 | 59.6 | 61.9 | 65.5 | 65.1 |
| 47.5° | 1027.7 | 584.2 | 93.0 | 71.5 | 66.0 | 60.0 | 55.4 | 54.5 | 58.6 | 63.7 | 64.1 |
| 50° | 1081.8 | 626.3 | 89.8 | 68.3 | 62.8 | 55.9 | 51.8 | 50.9 | 55.4 | 61.9 | 63.2 |
| 52.5° | 1144.1 | 671.7 | 87.5 | 64.1 | 59.1 | 52.7 | 48.1 | 47.2 | 52.2 | 60.5 | 60.9 |
| 55° | 1184.8 | 710.2 | 85.7 | 56.8 | 52.2 | 47.7 | 44.0 | 43.5 | 49.0 | 56.4 | 58.2 |
| 57.5° | 1137.2 | 656.6 | 79.3 | 49.5 | 44.4 | 42.2 | 38.9 | 38.9 | 43.5 | 50.4 | 51.8 |
| 60° | 862.3 | 432.1 | 56.4 | 39.9 | 37.6 | 36.2 | 34.8 | 34.8 | 38.5 | 43.5 | 44.0 |
| 62.5° | 504.9 | 232.8 | 36.2 | 32.1 | 32.1 | 30.7 | 28.4 | 28.4 | 32.1 | 34.8 | 35.3 |
| 65° | 149.8 | 74.7 | 29.3 | 27.5 | 27.0 | 24.7 | 22.5 | 22.0 | 24.7 | 26.1 | 25.7 |
| 67.5° | 43.1 | 34.4 | 24.3 | 22.9 | 22.5 | 18.8 | 17.4 | 17.0 | 17.4 | 16.5 | 16.0 |
| 70° | 25.7 | 23.4 | 18.8 | 19.2 | 17.0 | 13.7 | 12.4 | 11.9 | 11.0 | 9.6 | 8.7 |
| 72.5° | 14.2 | 14.2 | 13.7 | 14.7 | 11.9 | 9.2 | 7.8 | 6.4 | 5.0 | 4.1 | 3.7 |
| 75° | 8.7 | 9.2 | 9.6 | 10.1 | 7.8 | 6.0 | 5.0 | 3.2 | 1.8 | 0.9 | 0.9 |
| 77.5° | 6.0 | 6.4 | 6.9 | 7.3 | 6.4 | 5.5 | 4.1 | 2.3 | 0.5 | 0.0 | 0.0 |
| 80° | 4.6 | 5.0 | 6.0 | 6.4 | 6.9 | 7.3 | 5.5 | 2.3 | 0.5 | 0.0 | 0.0 |
| 82.5° | 5.0 | 5.5 | 6.9 | 6.4 | 6.4 | 6.4 | 5.0 | 2.3 | 0.5 | 0.0 | 0.0 |
| 85° | 0.9 | 1.4 | 2.3 | 2.3 | 3.2 | 4.1 | 3.2 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |

(END OF REPORT)