

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: P531457

Luminaire Tested: **GALN-SA6D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531457
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-SA6D-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 24431 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

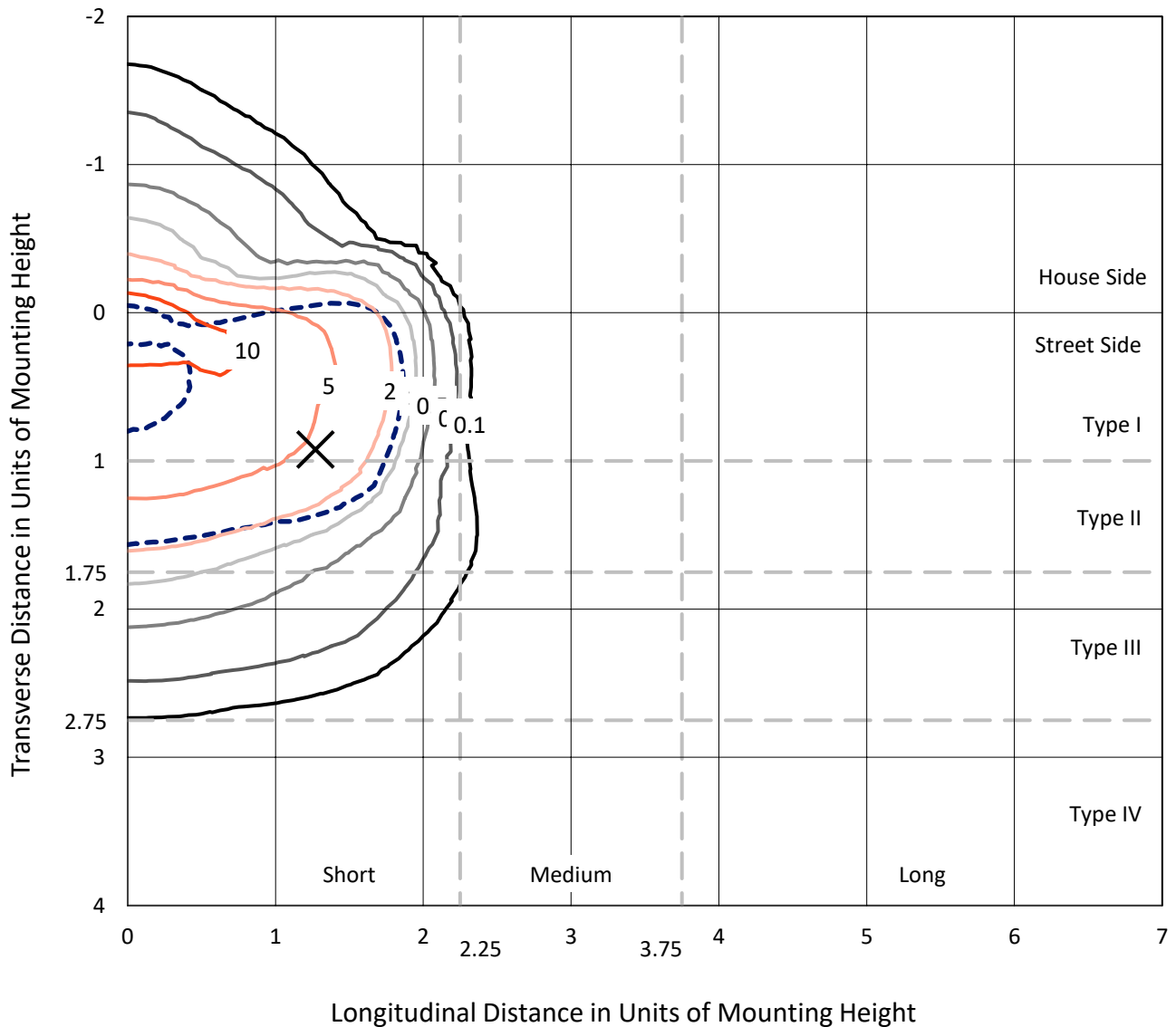
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

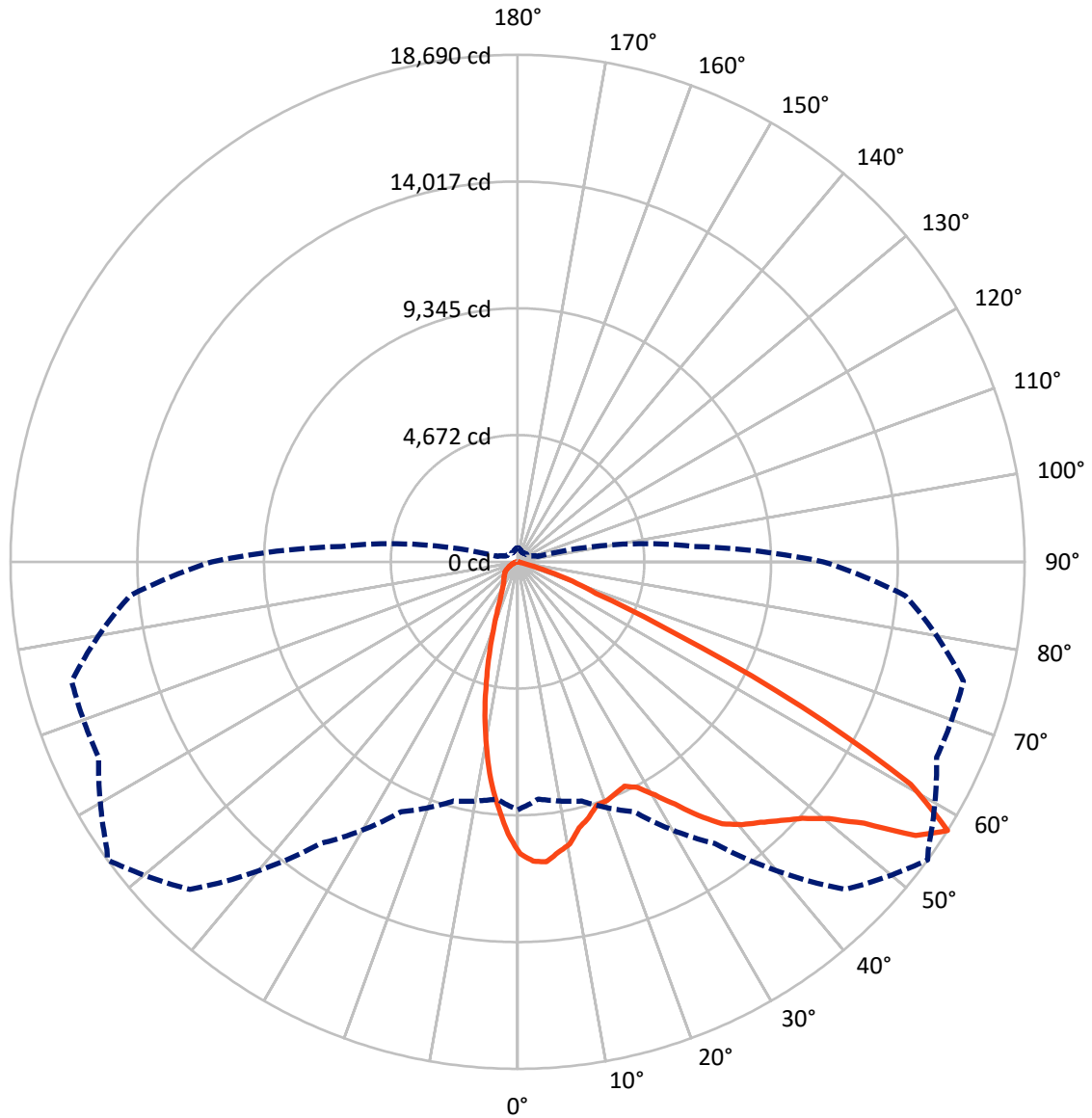
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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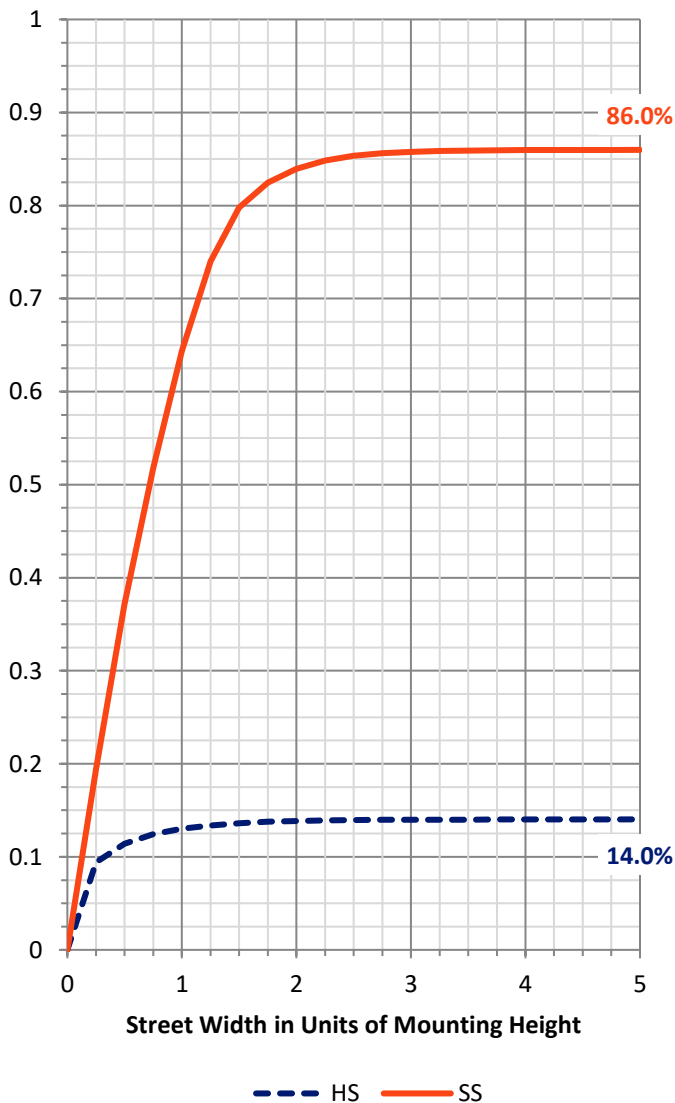
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3452.5 | 0.0 | 3452.5 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 20978.5 | 0.0 | 20978.5 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 24431.0 | 0.0 | 24431.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 900.6 | 3.7 |
| 10°-20° | 1922.8 | 7.9 |
| 20°-30° | 2548.0 | 10.4 |
| 30°-40° | 3703.0 | 15.2 |
| 40°-50° | 5491.1 | 22.5 |
| 50°-60° | 6866.4 | 28.1 |
| 60°-70° | 2708.5 | 11.1 |
| 70°-80° | 269.7 | 1.1 |
| 80°-90° | 21.0 | 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° | 24431.0 | 100.0 |
| 0°-180° | 24431.0 | 100.0 |

Coefficient of Utilization

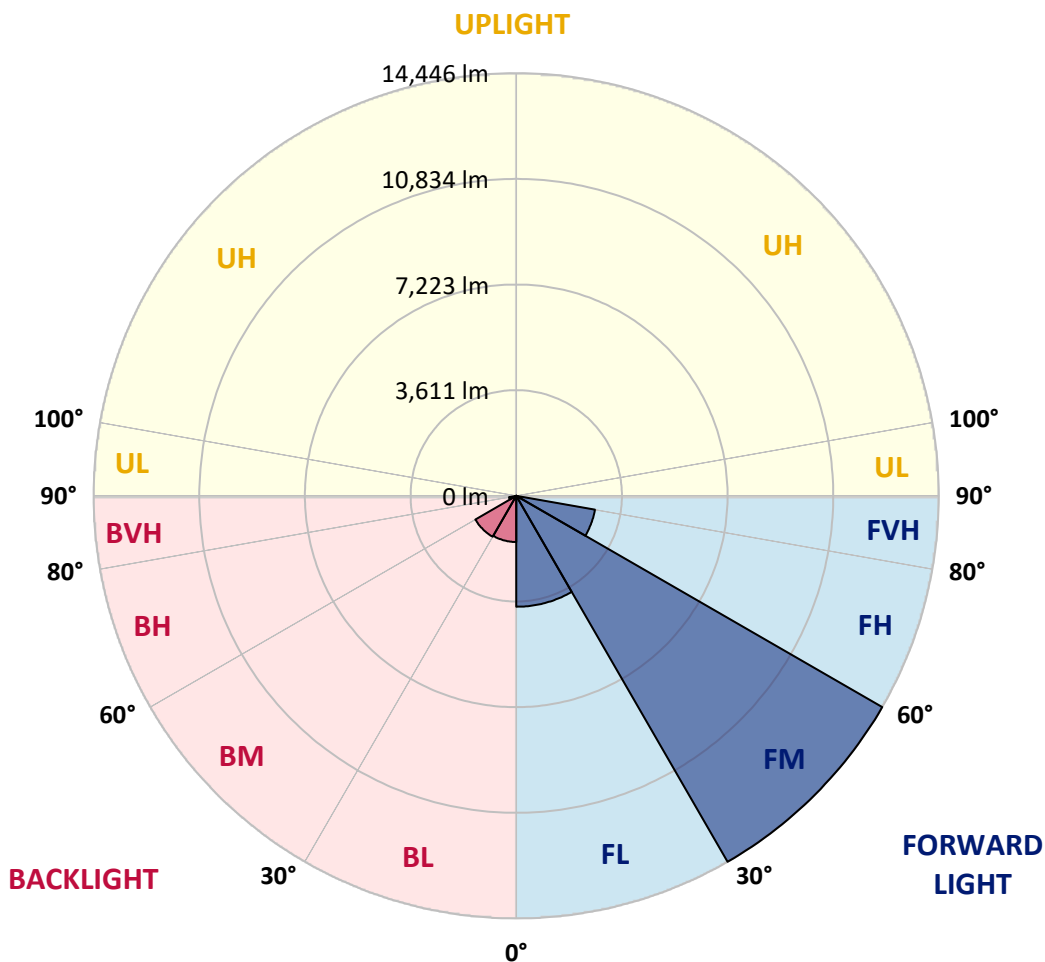


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3792.4 | 15.5 | | | |
| FM (30°-60°) | 14446.0 | 59.1 | | | |
| FH (60°-80°) | 2730.6 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 9.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1579.0 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1614.5 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 247.6 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.4 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 |
| 2.5° | 11389.1 | 11271.0 | 11280.1 | 11239.2 | 11184.7 | 11225.6 | 11048.4 | 11089.3 | 11084.7 | 10844.0 | 10685.0 |
| 5° | 11102.9 | 11230.1 | 11098.4 | 11207.4 | 11102.9 | 11216.5 | 11107.4 | 11025.7 | 10893.9 | 10716.8 | 10421.5 |
| 7.5° | 10616.8 | 10494.2 | 10530.5 | 10666.8 | 10689.5 | 10943.9 | 10807.6 | 10912.1 | 10857.6 | 10507.8 | 10103.5 |
| 10° | 9640.1 | 9612.8 | 9794.5 | 9976.3 | 10198.9 | 10471.4 | 10575.9 | 10516.9 | 10476.0 | 10344.2 | 9803.6 |
| 12.5° | 8890.5 | 8967.7 | 8963.2 | 9263.0 | 9640.1 | 9794.5 | 10067.1 | 10058.0 | 10285.2 | 10039.9 | 9522.0 |
| 15° | 8177.3 | 8218.1 | 8409.0 | 8595.2 | 9013.2 | 9453.8 | 9790.0 | 9835.4 | 10108.0 | 9935.4 | 9303.9 |
| 17.5° | 7741.1 | 7682.1 | 7832.0 | 8054.6 | 8481.6 | 9058.6 | 9431.1 | 9540.1 | 9912.7 | 9876.3 | 9054.0 |
| 20° | 7309.6 | 7309.6 | 7432.2 | 7695.7 | 8086.4 | 8736.0 | 9399.3 | 9367.5 | 9912.7 | 9808.2 | 8786.0 |
| 22.5° | 7164.2 | 7236.9 | 7268.7 | 7468.6 | 7931.9 | 8490.7 | 9263.0 | 9322.1 | 9989.9 | 9776.4 | 8667.9 |
| 25° | 7364.1 | 7268.7 | 7277.8 | 7436.8 | 7872.9 | 8372.6 | 9163.1 | 9294.8 | 10130.7 | 9935.4 | 8572.5 |
| 27.5° | 7395.9 | 7491.3 | 7518.5 | 7627.6 | 7918.3 | 8409.0 | 9412.9 | 9681.0 | 10480.5 | 10307.9 | 8599.8 |
| 30° | 7673.0 | 7768.4 | 7763.9 | 7950.1 | 8150.0 | 8704.2 | 9971.7 | 10026.2 | 11202.8 | 10775.8 | 8767.8 |
| 32.5° | 8009.2 | 8109.1 | 8140.9 | 8359.0 | 8518.0 | 9244.8 | 10653.2 | 10794.0 | 11897.9 | 11511.8 | 9208.5 |
| 35° | 8427.1 | 8390.8 | 8536.2 | 8754.2 | 9094.9 | 10035.3 | 11484.5 | 11720.7 | 12647.5 | 12465.8 | 9662.8 |
| 37.5° | 8949.6 | 8904.1 | 9045.0 | 9399.3 | 9862.7 | 10971.2 | 12252.3 | 12406.7 | 13192.6 | 13351.7 | 10503.2 |
| 40° | 9317.5 | 9335.7 | 9762.7 | 10239.7 | 10730.4 | 11861.6 | 12738.4 | 12888.3 | 13574.3 | 14178.5 | 11139.2 |
| 42.5° | 9930.8 | 10044.4 | 10557.8 | 11139.2 | 11652.6 | 12529.4 | 13133.6 | 13279.0 | 13751.4 | 14841.7 | 11997.9 |
| 45° | 10821.2 | 10771.3 | 11339.1 | 11988.8 | 12556.6 | 13224.4 | 13601.5 | 13551.5 | 13855.9 | 15500.5 | 12538.5 |
| 47.5° | 11966.1 | 11975.1 | 12352.2 | 12906.4 | 13497.0 | 13828.7 | 14123.9 | 13946.8 | 14074.0 | 16195.5 | 13260.8 |
| 50° | 12747.4 | 12815.6 | 13120.0 | 13687.8 | 13983.1 | 14491.9 | 14869.0 | 14760.0 | 14719.1 | 16613.5 | 13715.1 |
| 52.5° | 12947.3 | 13151.8 | 13315.3 | 14024.0 | 14714.5 | 15518.6 | 16000.2 | 16231.9 | 15505.0 | 16754.3 | 14292.0 |
| 55° | 11439.1 | 11620.8 | 12197.7 | 13169.9 | 14991.6 | 17145.0 | 17808.3 | 17812.8 | 16531.7 | 17381.2 | 14696.4 |
| 57.5° | 9144.9 | 8776.9 | 9131.3 | 10162.5 | 12674.8 | 17076.8 | 18689.6 | 18476.1 | 17045.0 | 17013.2 | 14346.6 |
| 60° | 6323.7 | 6232.9 | 6255.6 | 6664.5 | 8772.4 | 13583.3 | 16654.4 | 16931.5 | 15695.8 | 14746.3 | 11357.3 |
| 62.5° | 5010.8 | 4933.6 | 4833.7 | 4788.2 | 5447.0 | 8463.5 | 11748.0 | 12138.7 | 10975.7 | 9562.9 | 6732.6 |
| 65° | 3925.1 | 3879.7 | 3893.3 | 4075.0 | 4070.5 | 4801.9 | 6423.7 | 6264.7 | 5015.4 | 3707.0 | 2117.0 |
| 67.5° | 2648.5 | 2716.7 | 2771.2 | 3320.9 | 3602.5 | 3343.6 | 3102.8 | 3012.0 | 1630.9 | 686.0 | 467.9 |
| 70° | 1490.1 | 1499.2 | 1558.2 | 2076.1 | 2734.8 | 2594.0 | 2139.7 | 2139.7 | 813.2 | 249.9 | 268.0 |
| 72.5° | 813.2 | 785.9 | 731.4 | 895.0 | 1217.5 | 1235.7 | 954.0 | 831.4 | 240.8 | 163.5 | 149.9 |
| 75° | 395.2 | 390.7 | 336.2 | 277.1 | 263.5 | 218.1 | 168.1 | 154.5 | 109.0 | 104.5 | 90.9 |
| 77.5° | 81.8 | 77.2 | 40.9 | 40.9 | 45.4 | 50.0 | 63.6 | 63.6 | 77.2 | 77.2 | 63.6 |
| 80° | 0.0 | 0.0 | 4.5 | 18.2 | 31.8 | 45.4 | 54.5 | 54.5 | 63.6 | 63.6 | 50.0 |
| 82.5° | 0.0 | 0.0 | 4.5 | 13.6 | 27.3 | 40.9 | 50.0 | 54.5 | 63.6 | 68.1 | 54.5 |
| 85° | 0.0 | 0.0 | 0.0 | 9.1 | 22.7 | 31.8 | 27.3 | 27.3 | 22.7 | 18.2 | 9.1 |
| 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-SA6D-730-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 | 10762.2 |
| 2.5° | 10603.2 | 10594.1 | 10385.1 | 10267.0 | 10053.5 | 9867.2 | 9717.3 | 9608.3 | 9608.3 | 9540.1 | 9476.5 |
| 5° | 10303.3 | 10226.1 | 9780.9 | 9494.7 | 9090.4 | 8790.6 | 8586.1 | 8427.1 | 8177.3 | 8245.4 | 7977.4 |
| 7.5° | 9930.8 | 9735.5 | 9144.9 | 8708.8 | 8150.0 | 7723.0 | 7286.8 | 6900.7 | 6528.2 | 6360.1 | 6451.0 |
| 10° | 9531.1 | 9190.3 | 8395.3 | 7704.8 | 7009.7 | 6228.3 | 5719.5 | 5101.7 | 4720.1 | 4697.4 | 4597.4 |
| 12.5° | 9108.6 | 8722.4 | 7754.8 | 6800.8 | 5887.6 | 4947.2 | 4170.4 | 3593.5 | 3334.5 | 3048.3 | 3102.8 |
| 15° | 8790.6 | 8218.1 | 7041.5 | 5892.2 | 4679.2 | 3729.7 | 2948.4 | 2503.2 | 2257.8 | 2189.7 | 2167.0 |
| 17.5° | 8445.3 | 7832.0 | 6314.7 | 4924.5 | 3670.7 | 2684.9 | 2121.5 | 1908.0 | 1812.6 | 1812.6 | 1799.0 |
| 20° | 8086.4 | 7395.9 | 5592.3 | 4025.0 | 2753.0 | 2003.4 | 1699.1 | 1630.9 | 1626.4 | 1621.8 | 1621.8 |
| 22.5° | 7850.2 | 6896.2 | 4938.2 | 3198.2 | 2076.1 | 1603.7 | 1476.4 | 1449.2 | 1467.4 | 1521.9 | 1521.9 |
| 25° | 7600.3 | 6414.6 | 4215.8 | 2466.8 | 1608.2 | 1376.5 | 1303.8 | 1322.0 | 1367.4 | 1417.4 | 1399.2 |
| 27.5° | 7345.9 | 6101.1 | 3534.4 | 1935.3 | 1317.4 | 1203.9 | 1176.6 | 1217.5 | 1267.5 | 1312.9 | 1299.3 |
| 30° | 7286.8 | 5765.0 | 2889.3 | 1467.4 | 1131.2 | 1049.4 | 1067.6 | 1103.9 | 1153.9 | 1172.1 | 1190.2 |
| 32.5° | 7377.7 | 5501.5 | 2366.9 | 1203.9 | 985.8 | 963.1 | 963.1 | 981.3 | 1013.1 | 1054.0 | 1040.3 |
| 35° | 7636.7 | 5351.6 | 1871.7 | 1044.9 | 904.0 | 881.3 | 876.8 | 895.0 | 913.1 | 926.8 | 913.1 |
| 37.5° | 8031.9 | 5233.4 | 1531.0 | 926.8 | 849.5 | 813.2 | 804.1 | 799.6 | 817.7 | 822.3 | 831.4 |
| 40° | 8536.2 | 5297.0 | 1299.3 | 854.1 | 795.0 | 754.1 | 726.9 | 726.9 | 726.9 | 740.5 | 745.0 |
| 42.5° | 9081.3 | 5383.4 | 1122.1 | 813.2 | 745.0 | 695.1 | 667.8 | 658.7 | 667.8 | 686.0 | 681.4 |
| 45° | 9653.7 | 5551.5 | 1008.5 | 749.6 | 699.6 | 636.0 | 599.7 | 590.6 | 613.3 | 649.6 | 645.1 |
| 47.5° | 10189.8 | 5792.2 | 922.2 | 708.7 | 654.2 | 595.1 | 549.7 | 540.6 | 581.5 | 631.5 | 636.0 |
| 50° | 10725.8 | 6210.2 | 890.4 | 676.9 | 622.4 | 554.2 | 513.4 | 504.3 | 549.7 | 613.3 | 626.9 |
| 52.5° | 11343.7 | 6659.9 | 867.7 | 636.0 | 586.0 | 522.4 | 477.0 | 467.9 | 517.9 | 599.7 | 604.2 |
| 55° | 11748.0 | 7041.5 | 849.5 | 563.3 | 517.9 | 472.5 | 436.1 | 431.6 | 486.1 | 558.8 | 577.0 |
| 57.5° | 11275.5 | 6510.0 | 785.9 | 490.6 | 440.7 | 417.9 | 386.1 | 386.1 | 431.6 | 499.7 | 513.4 |
| 60° | 8549.8 | 4284.0 | 558.8 | 395.2 | 372.5 | 358.9 | 345.3 | 345.3 | 381.6 | 431.6 | 436.1 |
| 62.5° | 5006.3 | 2307.8 | 358.9 | 318.0 | 318.0 | 304.4 | 281.7 | 281.7 | 318.0 | 345.3 | 349.8 |
| 65° | 1485.5 | 740.5 | 290.7 | 272.6 | 268.0 | 245.3 | 222.6 | 218.1 | 245.3 | 258.9 | 254.4 |
| 67.5° | 427.0 | 340.7 | 240.8 | 227.1 | 222.6 | 186.3 | 172.6 | 168.1 | 172.6 | 163.5 | 159.0 |
| 70° | 254.4 | 231.7 | 186.3 | 190.8 | 168.1 | 136.3 | 122.7 | 118.1 | 109.0 | 95.4 | 86.3 |
| 72.5° | 140.8 | 140.8 | 136.3 | 145.4 | 118.1 | 90.9 | 77.2 | 63.6 | 50.0 | 40.9 | 36.3 |
| 75° | 86.3 | 90.9 | 95.4 | 99.9 | 77.2 | 59.1 | 50.0 | 31.8 | 18.2 | 9.1 | 9.1 |
| 77.5° | 59.1 | 63.6 | 68.1 | 72.7 | 63.6 | 54.5 | 40.9 | 22.7 | 4.5 | 0.0 | 0.0 |
| 80° | 45.4 | 50.0 | 59.1 | 63.6 | 68.1 | 72.7 | 54.5 | 22.7 | 4.5 | 0.0 | 0.0 |
| 82.5° | 50.0 | 54.5 | 68.1 | 63.6 | 63.6 | 63.6 | 50.0 | 22.7 | 4.5 | 0.0 | 0.0 |
| 85° | 9.1 | 13.6 | 22.7 | 22.7 | 31.8 | 40.9 | 31.8 | 9.1 | 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)