

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: P458130

Luminaire Tested: **GALN-SA9C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45445 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

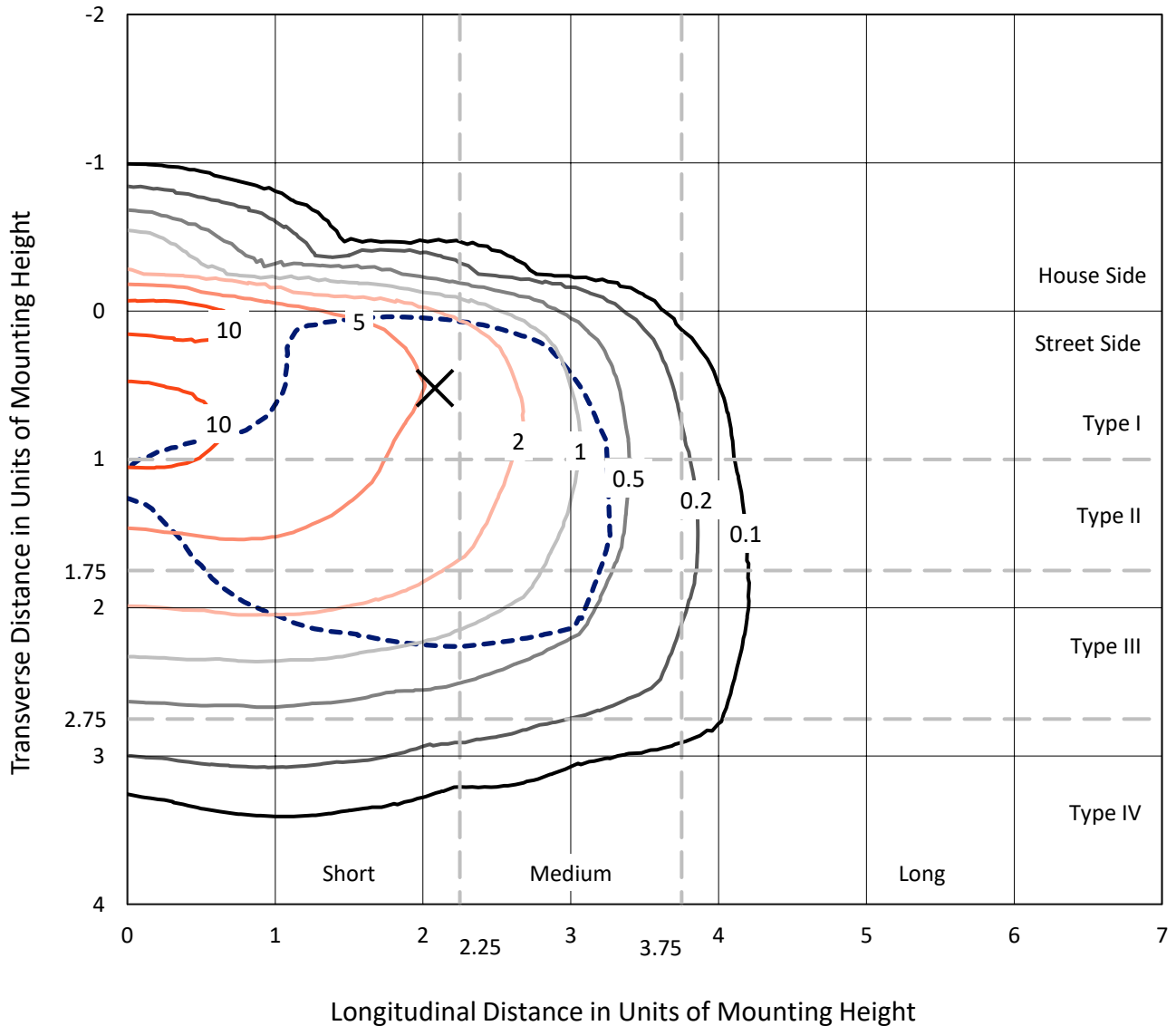
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

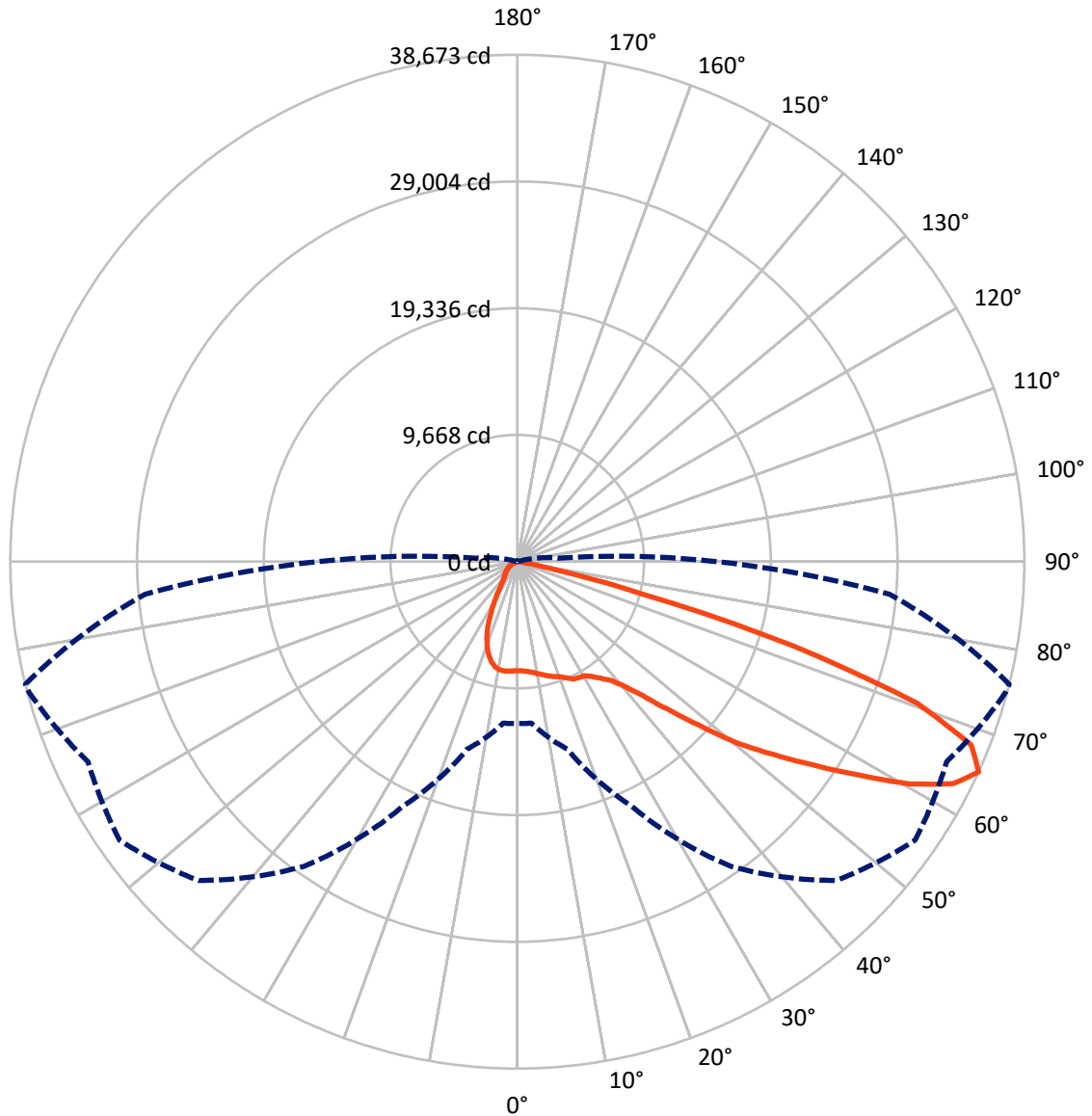
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3282.0 | 0.0 | 3282.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 42163.0 | 0.0 | 42163.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 45445.0 | 0.0 | 45445.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 684.8 | 1.5 |
| 10°-20° | 1524.8 | 3.4 |
| 20°-30° | 2457.1 | 5.4 |
| 30°-40° | 4272.3 | 9.4 |
| 40°-50° | 7059.7 | 15.5 |
| 50°-60° | 10905.8 | 24.0 |
| 60°-70° | 13317.5 | 29.3 |
| 70°-80° | 5054.3 | 11.1 |
| 80°-90° | 168.7 | 0.4 |
| 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° | 45445.0 | 100.0 |
| 0°-180° | 45445.0 | 100.0 |



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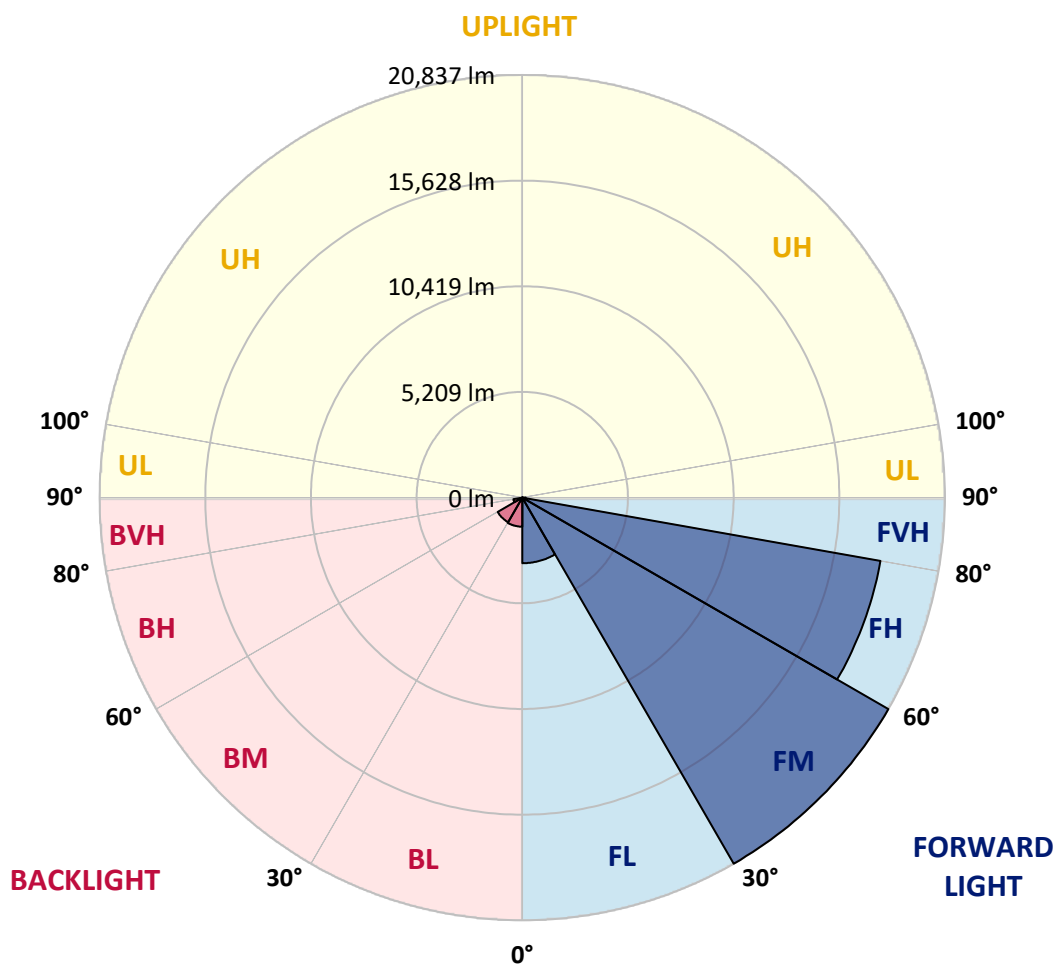
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 3232.9 | 7.1 | | | |
| FM | (30°-60°) | 20837.2 | 45.9 | | | |
| FH | (60°-80°) | 17926.5 | 39.4 | | | G5 |
| FVH | (80°-90°) | 166.4 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1433.9 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 1400.5 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 445.3 | 1.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 |
| 2.5° | 7944.4 | 7947.6 | 7966.8 | 8014.9 | 8088.7 | 8149.7 | 8201.0 | 8284.5 | 8342.2 | 8348.6 | 8367.9 |
| 5° | 7395.7 | 7357.2 | 7395.7 | 7520.8 | 7633.1 | 7803.2 | 8011.7 | 8220.3 | 8406.4 | 8419.2 | 8509.1 |
| 7.5° | 6779.7 | 6811.7 | 6872.7 | 7001.0 | 7212.8 | 7472.7 | 7774.3 | 8146.5 | 8499.4 | 8531.5 | 8708.0 |
| 10° | 6154.0 | 6224.6 | 6324.0 | 6519.8 | 6815.0 | 7151.8 | 7562.5 | 8095.2 | 8647.0 | 8691.9 | 8996.8 |
| 12.5° | 5576.5 | 5608.5 | 5730.5 | 5993.6 | 6359.3 | 6834.2 | 7402.1 | 8066.3 | 8810.7 | 8865.2 | 9304.8 |
| 15° | 5133.7 | 5175.4 | 5281.3 | 5518.7 | 5926.2 | 6535.8 | 7270.6 | 8056.7 | 8971.1 | 9048.1 | 9612.8 |
| 17.5° | 5050.3 | 5075.9 | 5120.8 | 5281.3 | 5637.4 | 6298.4 | 7151.8 | 8053.4 | 9125.1 | 9218.2 | 9898.4 |
| 20° | 5393.6 | 5371.1 | 5326.2 | 5310.1 | 5505.9 | 6115.5 | 7065.2 | 8079.1 | 9272.7 | 9378.6 | 10200.0 |
| 22.5° | 6253.5 | 6282.3 | 6019.2 | 5708.0 | 5643.8 | 6086.6 | 7052.4 | 8201.0 | 9506.9 | 9632.1 | 10536.9 |
| 25° | 8079.1 | 7857.7 | 7447.0 | 6702.7 | 6141.2 | 6263.1 | 7196.8 | 8489.8 | 9779.6 | 9917.6 | 10841.7 |
| 27.5° | 10097.3 | 10029.9 | 9391.4 | 8165.7 | 7119.8 | 6635.3 | 7453.5 | 8711.2 | 9869.5 | 10010.7 | 11014.9 |
| 30° | 12080.2 | 12160.4 | 11428.8 | 10074.8 | 8541.1 | 7325.1 | 7694.1 | 8794.6 | 9949.7 | 10097.3 | 11236.3 |
| 32.5° | 13918.7 | 14014.9 | 13373.2 | 12032.0 | 10216.0 | 8518.7 | 8108.0 | 9118.7 | 10286.6 | 10437.4 | 11605.3 |
| 35° | 15365.7 | 15378.6 | 14894.1 | 13825.6 | 12044.9 | 9969.0 | 9003.2 | 9686.6 | 10742.2 | 10918.7 | 11996.8 |
| 37.5° | 16694.1 | 16674.8 | 16106.9 | 15186.0 | 13568.9 | 11409.6 | 10129.4 | 10341.1 | 11262.0 | 11444.9 | 12561.5 |
| 40° | 17679.1 | 17691.9 | 17509.0 | 16642.7 | 14990.3 | 12741.1 | 11021.4 | 10954.0 | 12134.7 | 12420.3 | 13382.8 |
| 42.5° | 18336.8 | 18455.6 | 18545.4 | 18105.8 | 16777.5 | 14380.7 | 12391.4 | 12266.3 | 13649.2 | 13886.6 | 14544.3 |
| 45° | 18869.5 | 19081.2 | 19530.4 | 19508.0 | 18494.1 | 16392.5 | 14271.6 | 14014.9 | 15795.7 | 16049.1 | 16023.5 |
| 47.5° | 19257.7 | 19472.7 | 20217.0 | 20666.2 | 20108.0 | 18343.3 | 16636.3 | 16414.9 | 18359.3 | 18635.2 | 17656.6 |
| 50° | 19456.6 | 19713.3 | 20663.0 | 21532.5 | 21368.9 | 20223.5 | 19331.5 | 19344.3 | 21455.5 | 21721.9 | 19549.7 |
| 52.5° | 18991.4 | 19325.1 | 20900.5 | 22466.2 | 22783.9 | 22023.5 | 21856.6 | 22280.1 | 24211.7 | 24439.5 | 21259.8 |
| 55° | 17505.8 | 17926.1 | 20576.4 | 23262.0 | 24423.4 | 24147.5 | 24725.1 | 25370.0 | 27224.5 | 27372.1 | 23014.9 |
| 57.5° | 16565.7 | 17011.7 | 19620.3 | 23939.0 | 26393.5 | 26817.0 | 27731.5 | 28203.1 | 30333.6 | 30709.0 | 25029.9 |
| 60° | 15773.2 | 16122.9 | 18834.2 | 24083.3 | 28395.6 | 30083.3 | 30972.1 | 31459.8 | 34171.0 | 34414.9 | 27247.0 |
| 62.5° | 14454.5 | 14855.6 | 17505.8 | 23075.9 | 29403.1 | 32698.3 | 34540.0 | 34321.8 | 37138.9 | 37309.0 | 28607.4 |
| 65° | 12333.6 | 12368.9 | 14810.6 | 20544.3 | 28363.5 | 34395.6 | 37045.9 | 36131.4 | 38557.1 | 38672.6 | 28501.5 |
| 67.5° | 9205.3 | 9545.4 | 11393.5 | 16148.6 | 23958.2 | 32945.3 | 37857.6 | 36179.6 | 37661.9 | 37341.1 | 26239.5 |
| 70° | 5929.4 | 6189.3 | 7723.0 | 11197.8 | 17274.8 | 27494.0 | 35165.7 | 33699.4 | 33054.4 | 32342.1 | 21478.0 |
| 72.5° | 2736.9 | 3070.6 | 4588.2 | 6397.8 | 10244.9 | 19585.0 | 28546.4 | 27378.5 | 23791.4 | 22033.1 | 13652.4 |
| 75° | 1193.6 | 1277.0 | 2265.2 | 3375.4 | 4803.2 | 10357.2 | 18821.3 | 16995.7 | 10745.4 | 9814.9 | 5464.2 |
| 77.5° | 728.3 | 782.9 | 1187.2 | 1809.6 | 1886.6 | 3946.5 | 10139.0 | 7414.9 | 3320.8 | 2929.4 | 1482.3 |
| 80° | 494.1 | 555.1 | 863.1 | 946.5 | 644.9 | 1100.5 | 3805.3 | 1979.7 | 670.6 | 641.7 | 317.6 |
| 82.5° | 240.6 | 304.8 | 638.5 | 529.4 | 279.1 | 352.9 | 1106.9 | 423.5 | 195.7 | 182.9 | 112.3 |
| 85° | 35.3 | 61.0 | 359.4 | 346.5 | 125.1 | 83.4 | 195.7 | 105.9 | 67.4 | 64.2 | 51.3 |
| 87.5° | 0.0 | 0.0 | 121.9 | 54.5 | 12.8 | 12.8 | 22.5 | 22.5 | 25.7 | 22.5 | 25.7 |
| 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-SA9C-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 | 8313.3 |
| 2.5° | 8377.5 | 8393.6 | 8332.6 | 8246.0 | 8152.9 | 8059.9 | 7928.3 | 7809.6 | 7739.0 | 7780.7 | 7678.0 |
| 5° | 8528.3 | 8515.5 | 8355.1 | 8092.0 | 7742.2 | 7321.9 | 6904.8 | 6548.6 | 6433.1 | 6259.9 | 6240.6 |
| 7.5° | 8736.9 | 8701.6 | 8361.5 | 7758.3 | 6969.0 | 6179.7 | 5409.6 | 4899.4 | 4607.5 | 4360.4 | 4366.8 |
| 10° | 9028.8 | 8926.2 | 8287.7 | 7171.1 | 5871.6 | 4681.3 | 3699.5 | 3025.7 | 2733.7 | 2640.6 | 2566.8 |
| 12.5° | 9330.4 | 9131.5 | 8082.3 | 6378.6 | 4572.2 | 3198.9 | 2249.2 | 1838.5 | 1658.8 | 1601.1 | 1594.6 |
| 15° | 9600.0 | 9285.5 | 7723.0 | 5425.7 | 3324.1 | 2043.8 | 1533.7 | 1398.9 | 1376.5 | 1379.7 | 1376.5 |
| 17.5° | 9866.3 | 9407.5 | 7225.6 | 4415.0 | 2258.8 | 1466.3 | 1318.7 | 1286.6 | 1296.3 | 1309.1 | 1305.9 |
| 20° | 10087.7 | 9433.1 | 6590.4 | 3369.0 | 1597.9 | 1286.6 | 1238.5 | 1232.1 | 1241.7 | 1251.3 | 1251.3 |
| 22.5° | 10328.3 | 9452.4 | 5836.3 | 2332.6 | 1305.9 | 1196.8 | 1171.1 | 1171.1 | 1184.0 | 1196.8 | 1200.0 |
| 25° | 10508.0 | 9346.5 | 4934.7 | 1674.9 | 1151.9 | 1110.2 | 1097.3 | 1100.5 | 1113.4 | 1119.8 | 1116.6 |
| 27.5° | 10536.9 | 9048.1 | 3978.6 | 1283.4 | 1046.0 | 1004.3 | 991.4 | 1004.3 | 988.2 | 997.9 | 991.4 |
| 30° | 10562.5 | 8669.5 | 3009.6 | 1081.3 | 949.7 | 885.6 | 866.3 | 847.1 | 834.2 | 818.2 | 815.0 |
| 32.5° | 10642.7 | 8223.5 | 2197.9 | 972.2 | 859.9 | 789.3 | 744.4 | 689.8 | 648.1 | 635.3 | 632.1 |
| 35° | 10678.0 | 7687.7 | 1613.9 | 885.6 | 779.7 | 702.7 | 622.5 | 545.5 | 484.5 | 462.0 | 478.1 |
| 37.5° | 10812.8 | 7167.9 | 1251.3 | 821.4 | 709.1 | 612.8 | 510.2 | 413.9 | 356.1 | 343.3 | 349.7 |
| 40° | 11088.7 | 6603.2 | 1049.2 | 766.8 | 648.1 | 529.4 | 404.3 | 311.2 | 272.7 | 259.9 | 256.7 |
| 42.5° | 11531.5 | 6041.7 | 933.7 | 715.5 | 587.2 | 446.0 | 317.6 | 243.8 | 211.8 | 202.1 | 202.1 |
| 45° | 12070.5 | 5502.7 | 853.5 | 661.0 | 523.0 | 359.4 | 250.3 | 195.7 | 176.5 | 170.1 | 170.1 |
| 47.5° | 12779.6 | 5031.0 | 786.1 | 606.4 | 452.4 | 285.6 | 202.1 | 170.1 | 157.2 | 160.4 | 163.6 |
| 50° | 13498.4 | 4681.3 | 712.3 | 545.5 | 372.2 | 234.2 | 173.3 | 150.8 | 147.6 | 150.8 | 150.8 |
| 52.5° | 14040.6 | 4475.9 | 612.8 | 462.0 | 292.0 | 195.7 | 154.0 | 141.2 | 138.0 | 131.6 | 131.6 |
| 55° | 14772.1 | 4431.0 | 487.7 | 375.4 | 231.0 | 163.6 | 138.0 | 128.3 | 118.7 | 112.3 | 109.1 |
| 57.5° | 15712.2 | 4482.3 | 375.4 | 292.0 | 179.7 | 134.8 | 121.9 | 105.9 | 93.0 | 80.2 | 80.2 |
| 60° | 16296.2 | 4366.8 | 292.0 | 224.6 | 131.6 | 109.1 | 93.0 | 77.0 | 61.0 | 51.3 | 48.1 |
| 62.5° | 16110.1 | 3879.1 | 231.0 | 166.8 | 93.0 | 80.2 | 61.0 | 51.3 | 35.3 | 25.7 | 22.5 |
| 65° | 15150.8 | 3131.5 | 186.1 | 115.5 | 67.4 | 48.1 | 32.1 | 32.1 | 16.0 | 3.2 | 0.0 |
| 67.5° | 13260.9 | 2319.8 | 147.6 | 77.0 | 38.5 | 22.5 | 16.0 | 9.6 | 0.0 | 0.0 | 0.0 |
| 70° | 10793.5 | 1674.9 | 115.5 | 48.1 | 22.5 | 16.0 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6853.5 | 959.4 | 89.8 | 28.9 | 16.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2650.3 | 375.4 | 61.0 | 19.3 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 750.8 | 176.5 | 35.3 | 9.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 195.7 | 77.0 | 19.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 93.0 | 32.1 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 54.5 | 12.8 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.7 | 3.2 | 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)