

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: P457198

Luminaire Tested: **GALN-SA8C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41394 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

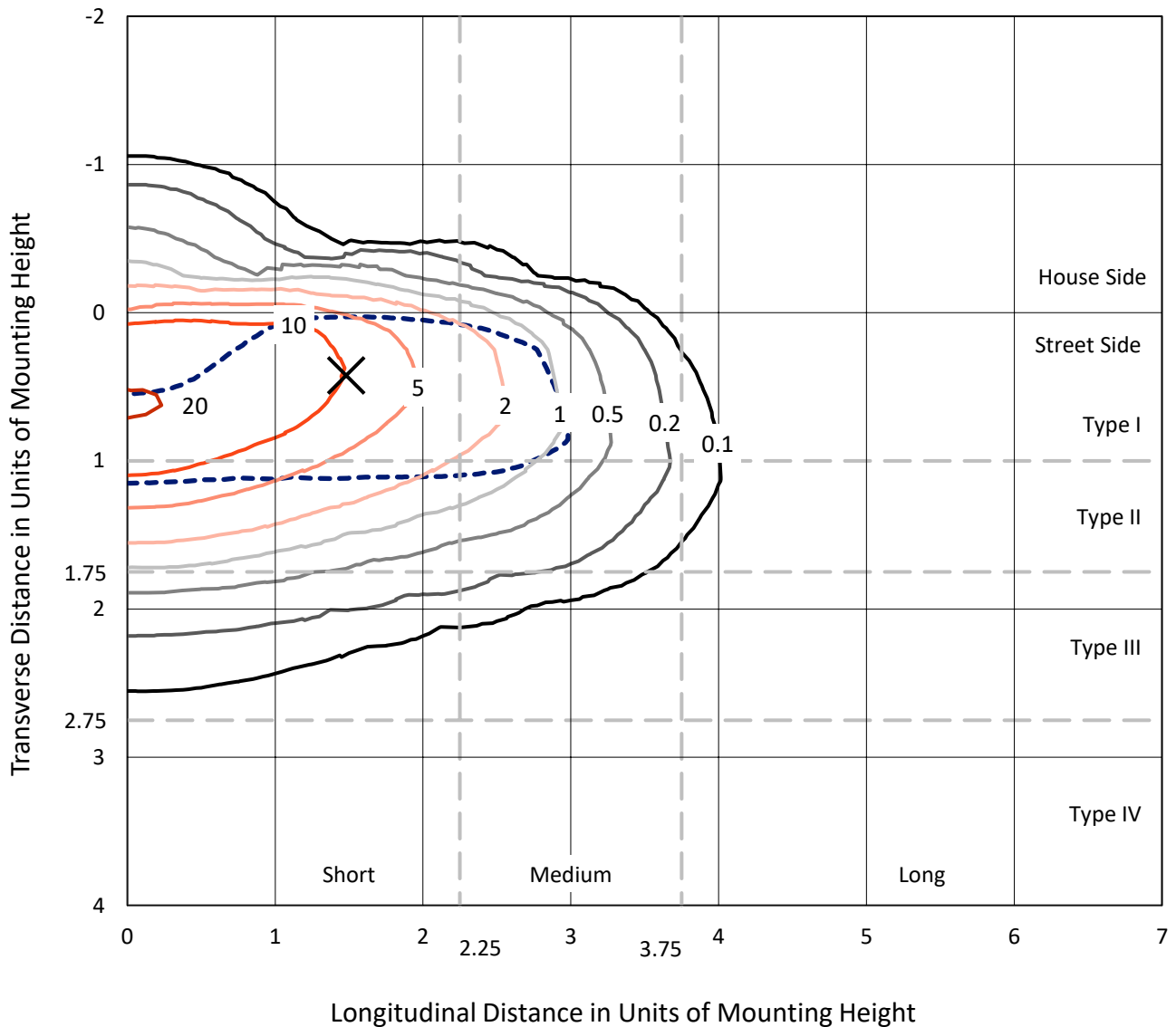
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

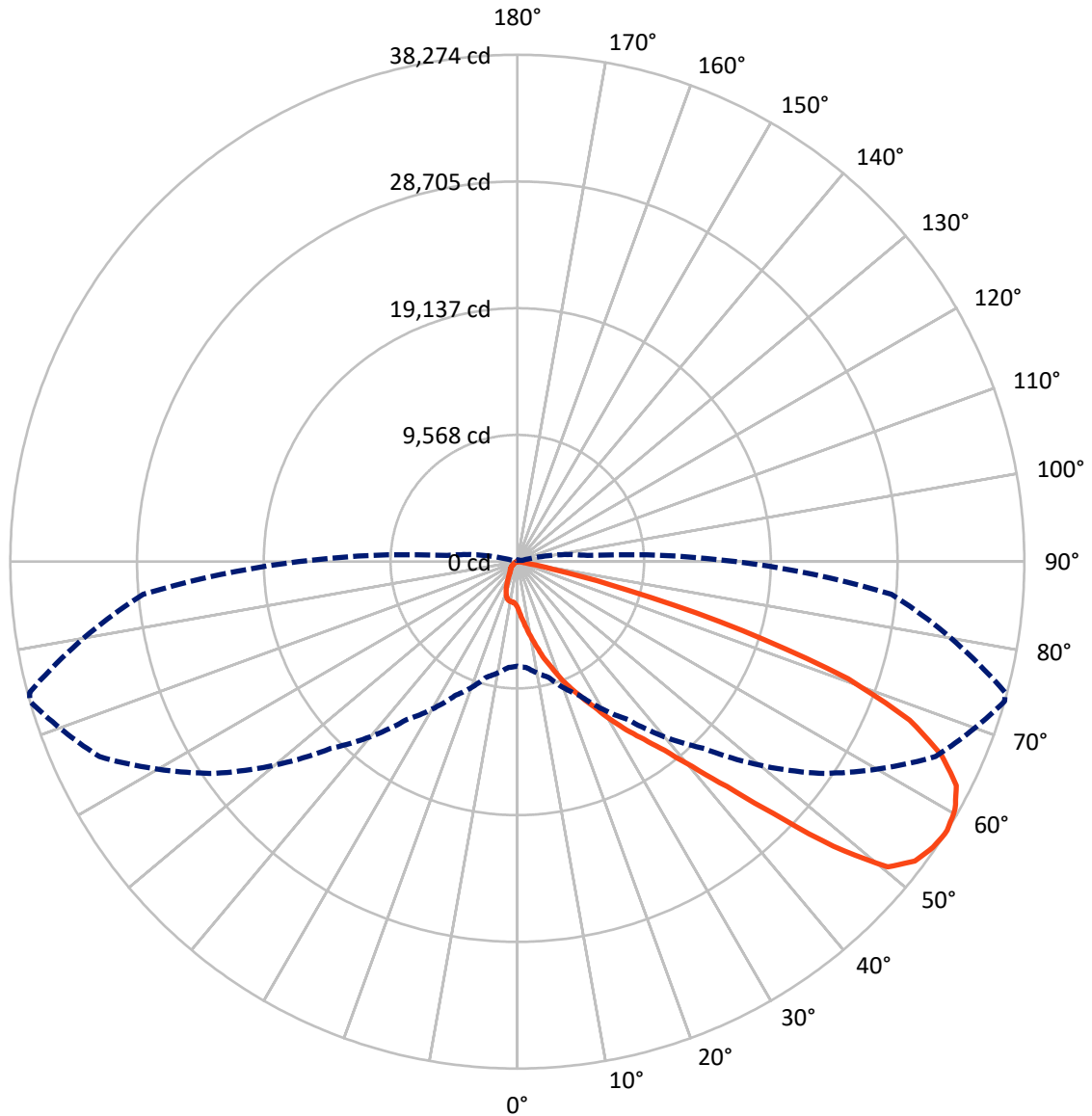
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2387.5 | 0.0 | 2387.5 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 39006.5 | 0.0 | 39006.5 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 41394.0 | 0.0 | 41394.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.4 | 1.0 |
| 10°-20° | 1649.3 | 4.0 |
| 20°-30° | 3529.1 | 8.5 |
| 30°-40° | 6486.5 | 15.7 |
| 40°-50° | 9943.9 | 24.0 |
| 50°-60° | 10519.3 | 25.4 |
| 60°-70° | 6869.4 | 16.6 |
| 70°-80° | 1877.0 | 4.5 |
| 80°-90° | 101.1 | 0.2 |
| 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° | 41394.0 | 100.0 |
| 0°-180° | 41394.0 | 100.0 |

Coefficient of Utilization



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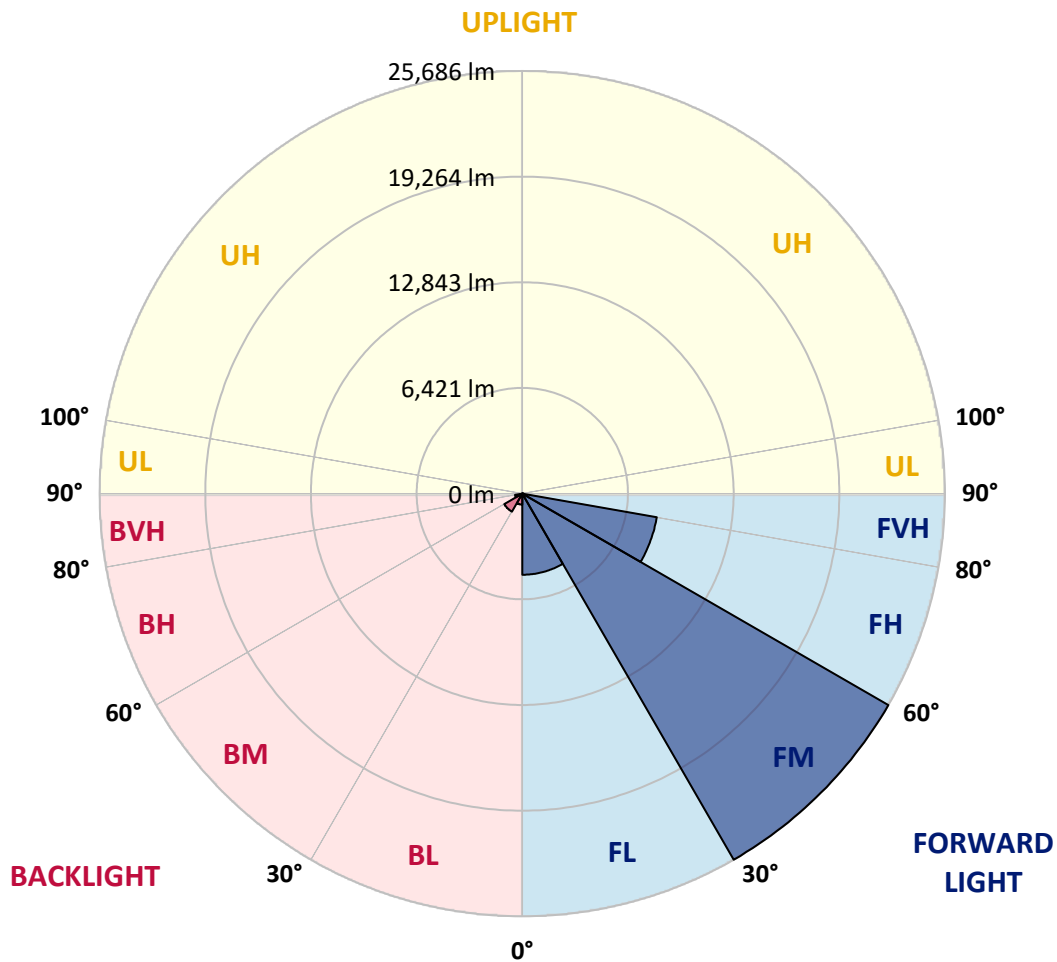
CATALOG NUMBER: GALN-SA8C-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4930.0 | 11.9 | | | |
| FM | (30°-60°) | 25685.7 | 62.1 | | | |
| FH | (60°-80°) | 8298.1 | 20.0 | | | G4/12000 |
| FVH | (80°-90°) | 92.7 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 666.9 | 1.6 | B2/1000 | | |
| BM | (30°-60°) | 1264.0 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 448.2 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.4 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 |
| 2.5° | 5072.9 | 5027.1 | 4935.7 | 4904.2 | 4769.9 | 4561.3 | 4378.4 | 4132.6 | 3938.3 | 3918.2 | 3683.9 |
| 5° | 6793.3 | 6690.5 | 6647.6 | 6441.8 | 6118.9 | 5815.9 | 5295.8 | 4901.4 | 4447.0 | 4412.7 | 3941.1 |
| 7.5° | 8451.0 | 8308.1 | 8265.2 | 8070.9 | 7693.6 | 7216.3 | 6541.8 | 5824.5 | 5104.3 | 5038.6 | 4286.9 |
| 10° | 9651.3 | 9671.3 | 9594.1 | 9465.5 | 9159.7 | 8673.9 | 7842.2 | 6861.9 | 5835.9 | 5753.1 | 4675.6 |
| 12.5° | 10511.5 | 10508.7 | 10523.0 | 10520.1 | 10357.2 | 9988.5 | 9114.0 | 7985.1 | 6641.9 | 6479.0 | 5121.4 |
| 15° | 11071.7 | 11080.3 | 11123.1 | 11271.8 | 11288.9 | 11060.3 | 10331.5 | 9059.7 | 7576.4 | 7373.5 | 5604.4 |
| 17.5° | 11637.6 | 11697.6 | 11766.2 | 11906.2 | 12032.0 | 11940.5 | 11426.1 | 10180.0 | 8422.4 | 8270.9 | 6121.7 |
| 20° | 12572.1 | 12655.0 | 12615.0 | 12700.7 | 12766.5 | 12775.0 | 12377.8 | 11214.6 | 9448.4 | 9194.0 | 6713.3 |
| 22.5° | 14066.8 | 14064.0 | 13961.1 | 13806.8 | 13678.1 | 13672.4 | 13312.3 | 12277.8 | 10380.1 | 10134.3 | 7307.8 |
| 25° | 15955.9 | 15964.5 | 15764.5 | 15324.3 | 15004.2 | 14612.7 | 14198.3 | 13209.4 | 11377.5 | 11074.6 | 7933.7 |
| 27.5° | 18122.3 | 18068.0 | 17765.0 | 17159.1 | 16524.7 | 15855.9 | 15258.6 | 14292.6 | 12434.9 | 12183.4 | 8651.0 |
| 30° | 20068.5 | 20048.5 | 19694.1 | 18953.9 | 18119.4 | 17447.8 | 16581.8 | 15650.1 | 13803.9 | 13495.2 | 9454.1 |
| 32.5° | 21880.5 | 21909.0 | 21417.5 | 20651.5 | 19845.6 | 19071.1 | 18156.6 | 16947.6 | 15147.1 | 14709.9 | 10328.6 |
| 35° | 23295.2 | 23323.7 | 22815.0 | 22177.7 | 21348.9 | 20705.8 | 19834.2 | 18330.9 | 16473.2 | 16104.5 | 11334.6 |
| 37.5° | 24049.7 | 24086.8 | 23792.4 | 23312.3 | 22795.0 | 22472.1 | 21660.4 | 20111.4 | 18085.1 | 17862.2 | 12523.5 |
| 40° | 24192.5 | 24235.4 | 24106.8 | 23978.2 | 23949.6 | 24181.1 | 23943.9 | 22209.1 | 20320.0 | 19971.4 | 14295.5 |
| 42.5° | 23763.9 | 23821.0 | 23878.2 | 24164.0 | 24747.0 | 25595.8 | 26421.7 | 25055.6 | 23198.0 | 22729.3 | 16461.8 |
| 45° | 22637.8 | 22632.1 | 22857.9 | 23598.1 | 24904.2 | 26716.1 | 29011.1 | 28619.5 | 27119.1 | 26561.8 | 19522.7 |
| 47.5° | 20711.6 | 20683.0 | 21171.7 | 22226.3 | 24261.1 | 26921.9 | 31123.1 | 32946.4 | 32123.4 | 31608.9 | 22812.2 |
| 50° | 17776.5 | 17916.5 | 18685.3 | 20157.1 | 22663.5 | 26298.9 | 31774.7 | 35784.4 | 36230.2 | 35684.4 | 25470.1 |
| 52.5° | 14338.3 | 14332.6 | 15538.7 | 17536.4 | 20297.2 | 24927.0 | 31320.3 | 36298.8 | 37564.9 | 37147.6 | 26779.0 |
| 55° | 10611.6 | 10685.9 | 11940.5 | 13955.4 | 17224.9 | 22423.5 | 29837.0 | 35770.1 | 38073.6 | 37779.2 | 27642.1 |
| 57° | 7893.7 | 8025.1 | 9031.1 | 11163.2 | 14549.8 | 19945.6 | 27862.2 | 34824.1 | 38273.7 | 38113.6 | 28359.4 |
| 57.5° | 7367.8 | 7373.5 | 8353.8 | 10291.5 | 13766.7 | 18993.9 | 27296.3 | 34429.7 | 38268.0 | 38179.4 | 28476.6 |
| 60° | 4535.6 | 4678.5 | 5355.8 | 6956.3 | 10077.1 | 14824.2 | 23503.8 | 32163.4 | 37970.7 | 38099.3 | 28976.8 |
| 62.5° | 2715.1 | 2775.1 | 3215.2 | 4192.6 | 6496.1 | 10820.2 | 19234.0 | 29262.6 | 37196.2 | 37587.8 | 28942.5 |
| 65° | 1746.2 | 1760.5 | 1960.6 | 2537.9 | 4061.1 | 7313.5 | 14821.3 | 25430.0 | 35192.8 | 35913.0 | 27810.7 |
| 67.5° | 1349.0 | 1371.8 | 1451.8 | 1666.2 | 2355.0 | 4555.6 | 10483.0 | 21340.3 | 31951.9 | 32880.7 | 25067.1 |
| 70° | 1197.5 | 1208.9 | 1237.5 | 1306.1 | 1557.6 | 2572.2 | 6521.8 | 16670.4 | 26496.1 | 26759.0 | 19617.0 |
| 72.5° | 977.4 | 1008.9 | 1097.5 | 1120.3 | 1234.6 | 1606.2 | 3629.6 | 11188.9 | 17802.2 | 17867.9 | 10974.5 |
| 75° | 757.4 | 763.1 | 894.5 | 960.3 | 1040.3 | 1106.0 | 1620.5 | 5641.6 | 8551.0 | 8093.7 | 4229.8 |
| 77.5° | 565.9 | 591.6 | 651.6 | 734.5 | 848.8 | 791.7 | 725.9 | 2126.3 | 2655.0 | 2606.5 | 1228.9 |
| 80° | 363.0 | 377.2 | 454.4 | 551.6 | 660.2 | 517.3 | 408.7 | 623.0 | 583.0 | 600.2 | 294.4 |
| 82.5° | 182.9 | 185.8 | 291.5 | 448.7 | 420.1 | 260.1 | 257.2 | 254.4 | 217.2 | 214.3 | 137.2 |
| 85° | 20.0 | 42.9 | 188.6 | 257.2 | 188.6 | 85.7 | 120.0 | 117.2 | 114.3 | 117.2 | 80.0 |
| 87.5° | 2.9 | 2.9 | 31.4 | 37.2 | 25.7 | 28.6 | 34.3 | 37.2 | 45.7 | 42.9 | 34.3 |
| 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-SA8C-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 | 3466.7 |
| 2.5° | 3569.6 | 3455.3 | 3243.8 | 3040.9 | 2889.4 | 2792.2 | 2666.5 | 2620.7 | 2555.0 | 2546.4 | 2515.0 |
| 5° | 3723.9 | 3506.7 | 3138.0 | 2846.5 | 2612.2 | 2435.0 | 2280.6 | 2152.0 | 2049.2 | 2026.3 | 2037.7 |
| 7.5° | 3944.0 | 3621.0 | 3106.6 | 2709.3 | 2383.5 | 2080.6 | 1834.8 | 1683.3 | 1574.7 | 1534.7 | 1540.4 |
| 10° | 4192.6 | 3772.5 | 3100.9 | 2563.6 | 2066.3 | 1694.8 | 1426.1 | 1291.8 | 1228.9 | 1206.1 | 1180.3 |
| 12.5° | 4487.0 | 3946.8 | 3086.6 | 2337.8 | 1717.6 | 1351.8 | 1160.3 | 1080.3 | 1020.3 | 1003.1 | 1003.1 |
| 15° | 4818.5 | 4132.6 | 3018.0 | 2057.7 | 1394.7 | 1117.5 | 988.9 | 926.0 | 906.0 | 888.8 | 888.8 |
| 17.5° | 5164.3 | 4315.5 | 2875.1 | 1711.9 | 1157.5 | 957.4 | 877.4 | 840.2 | 811.7 | 791.7 | 791.7 |
| 20° | 5558.7 | 4495.6 | 2646.5 | 1406.1 | 977.4 | 854.5 | 791.7 | 748.8 | 725.9 | 708.8 | 703.1 |
| 22.5° | 5933.1 | 4641.3 | 2355.0 | 1154.6 | 851.7 | 768.8 | 711.6 | 665.9 | 643.0 | 634.5 | 634.5 |
| 25° | 6321.8 | 4729.9 | 2003.4 | 954.6 | 777.4 | 697.3 | 634.5 | 597.3 | 577.3 | 571.6 | 568.7 |
| 27.5° | 6699.0 | 4781.4 | 1694.8 | 834.5 | 708.8 | 631.6 | 571.6 | 543.0 | 523.0 | 517.3 | 520.1 |
| 30° | 7156.3 | 4789.9 | 1394.7 | 748.8 | 648.8 | 568.7 | 514.4 | 488.7 | 477.3 | 471.6 | 468.7 |
| 32.5° | 7619.3 | 4778.5 | 1171.8 | 697.3 | 591.6 | 514.4 | 468.7 | 448.7 | 440.1 | 431.6 | 431.6 |
| 35° | 8139.4 | 4718.5 | 997.4 | 645.9 | 537.3 | 468.7 | 428.7 | 411.5 | 400.1 | 391.5 | 388.7 |
| 37.5° | 8785.3 | 4687.0 | 897.4 | 588.7 | 488.7 | 425.8 | 388.7 | 371.5 | 363.0 | 351.5 | 348.7 |
| 40° | 9802.8 | 4827.1 | 866.0 | 537.3 | 440.1 | 385.8 | 351.5 | 331.5 | 320.1 | 308.7 | 305.8 |
| 42.5° | 11071.7 | 5072.9 | 814.5 | 485.9 | 397.3 | 348.7 | 314.4 | 291.5 | 271.5 | 257.2 | 251.5 |
| 45° | 12715.0 | 5395.8 | 734.5 | 431.6 | 360.1 | 308.7 | 277.2 | 248.6 | 222.9 | 211.5 | 208.6 |
| 47.5° | 14438.4 | 5707.3 | 663.0 | 388.7 | 320.1 | 274.4 | 240.1 | 208.6 | 185.8 | 177.2 | 174.3 |
| 50° | 15495.8 | 5770.2 | 617.3 | 340.1 | 280.1 | 237.2 | 202.9 | 174.3 | 160.0 | 151.5 | 151.5 |
| 52.5° | 15978.8 | 5670.2 | 554.4 | 297.2 | 242.9 | 208.6 | 174.3 | 151.5 | 142.9 | 137.2 | 134.3 |
| 55° | 16316.0 | 5515.8 | 471.6 | 257.2 | 208.6 | 177.2 | 154.3 | 137.2 | 125.7 | 120.0 | 117.2 |
| 57° | 16513.2 | 5307.2 | 408.7 | 225.8 | 180.1 | 154.3 | 137.2 | 122.9 | 111.5 | 100.0 | 100.0 |
| 57.5° | 16521.8 | 5227.2 | 391.5 | 222.9 | 171.5 | 148.6 | 134.3 | 120.0 | 105.7 | 94.3 | 91.5 |
| 60° | 16267.5 | 4678.5 | 314.4 | 188.6 | 137.2 | 125.7 | 111.5 | 94.3 | 74.3 | 62.9 | 60.0 |
| 62.5° | 15450.1 | 3981.1 | 260.1 | 160.0 | 111.5 | 97.2 | 80.0 | 71.4 | 51.4 | 37.2 | 37.2 |
| 65° | 14212.6 | 3229.5 | 222.9 | 128.6 | 91.5 | 71.4 | 54.3 | 51.4 | 31.4 | 17.1 | 14.3 |
| 67.5° | 12423.5 | 2515.0 | 188.6 | 105.7 | 77.2 | 51.4 | 37.2 | 34.3 | 17.1 | 5.7 | 0.0 |
| 70° | 9465.5 | 1714.8 | 157.2 | 85.7 | 57.2 | 37.2 | 25.7 | 20.0 | 11.4 | 2.9 | 0.0 |
| 72.5° | 5455.8 | 943.1 | 131.5 | 65.7 | 42.9 | 28.6 | 20.0 | 11.4 | 11.4 | 0.0 | 0.0 |
| 75° | 1949.1 | 405.8 | 100.0 | 48.6 | 34.3 | 22.9 | 14.3 | 5.7 | 8.6 | 2.9 | 0.0 |
| 77.5° | 620.2 | 217.2 | 65.7 | 37.2 | 28.6 | 17.1 | 11.4 | 5.7 | 5.7 | 2.9 | 0.0 |
| 80° | 182.9 | 114.3 | 40.0 | 31.4 | 20.0 | 14.3 | 8.6 | 2.9 | 5.7 | 2.9 | 0.0 |
| 82.5° | 100.0 | 57.2 | 31.4 | 22.9 | 20.0 | 11.4 | 8.6 | 2.9 | 2.9 | 2.9 | 0.0 |
| 85° | 51.4 | 34.3 | 25.7 | 22.9 | 20.0 | 11.4 | 8.6 | 2.9 | 0.0 | 2.9 | 2.9 |
| 87.5° | 28.6 | 25.7 | 25.7 | 22.9 | 20.0 | 14.3 | 8.6 | 2.9 | 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)