

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: P456486

Luminaire Tested: **GALN-SA7D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40204 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

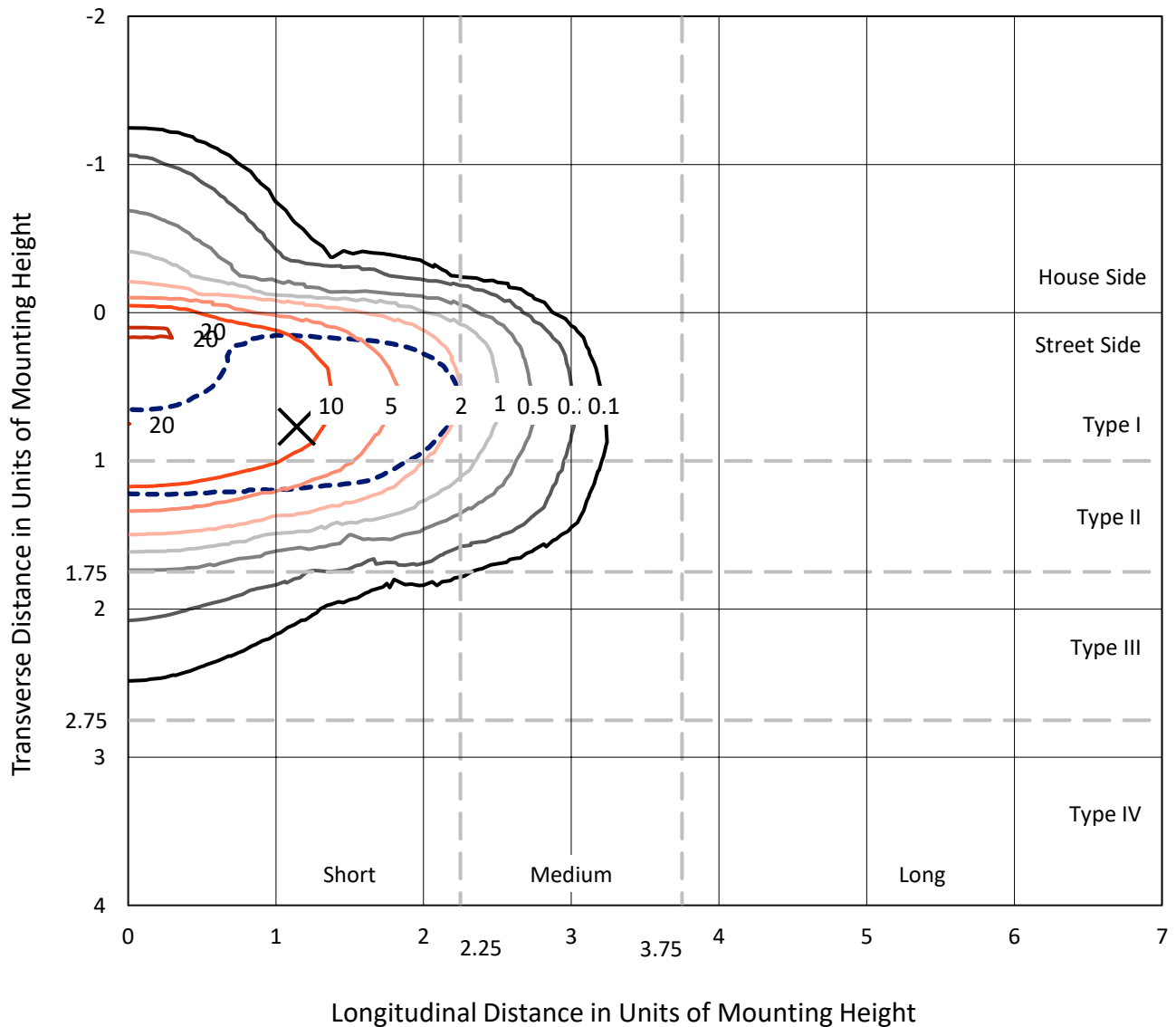
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

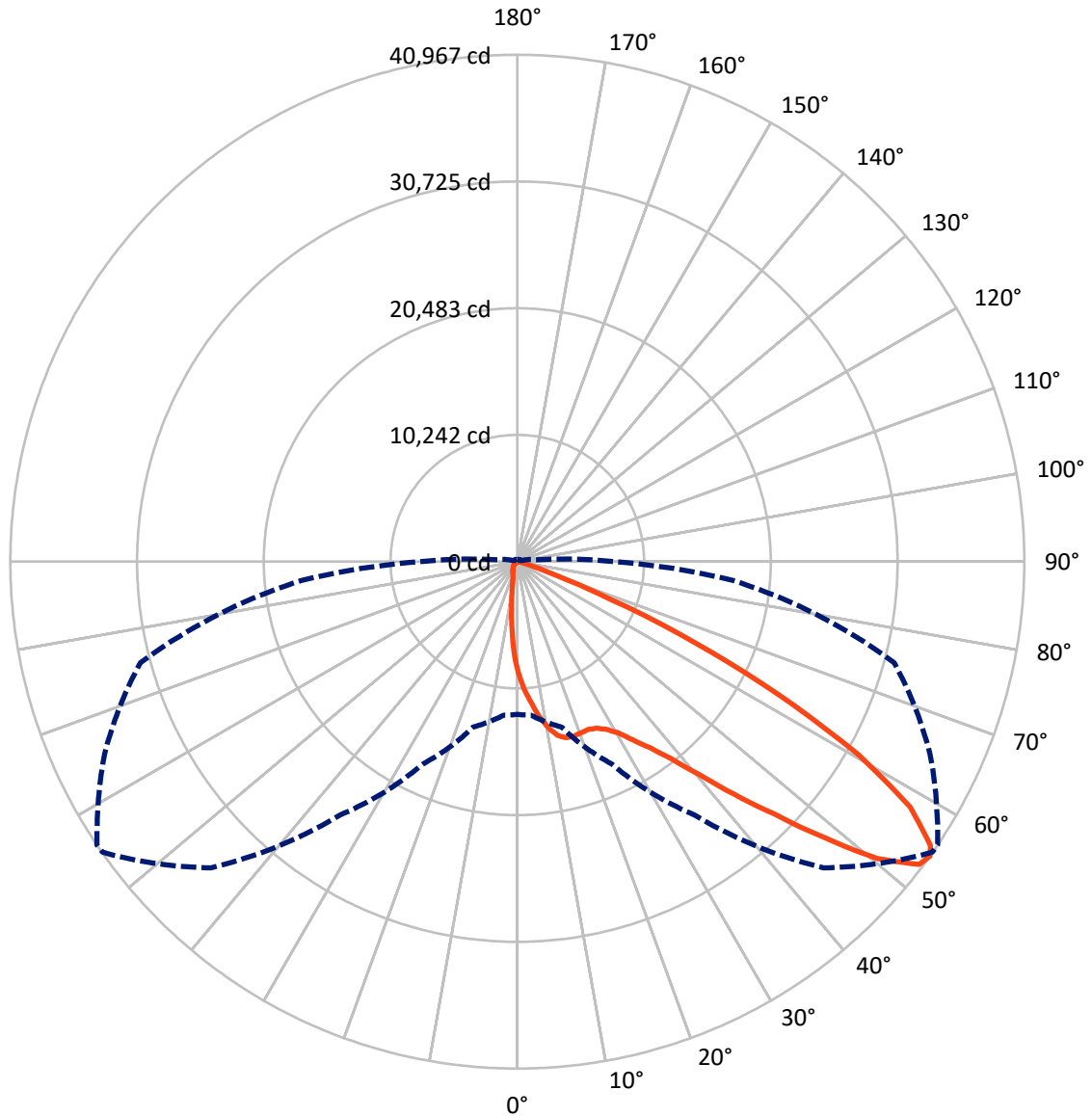
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1901.1 | 0.0 | 1901.1 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 38302.8 | 0.0 | 38302.8 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 40204.0 | 0.0 | 40204.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 789.3 | 2.0 |
| 10°-20° | 2133.8 | 5.3 |
| 20°-30° | 3695.5 | 9.2 |
| 30°-40° | 6378.9 | 15.9 |
| 40°-50° | 10857.2 | 27.0 |
| 50°-60° | 10744.5 | 26.7 |
| 60°-70° | 4904.0 | 12.2 |
| 70°-80° | 629.8 | 1.6 |
| 80°-90° | 71.0 | 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° | 40204.0 | 100.0 |
| 0°-180° | 40204.0 | 100.0 |

Coefficient of Utilization



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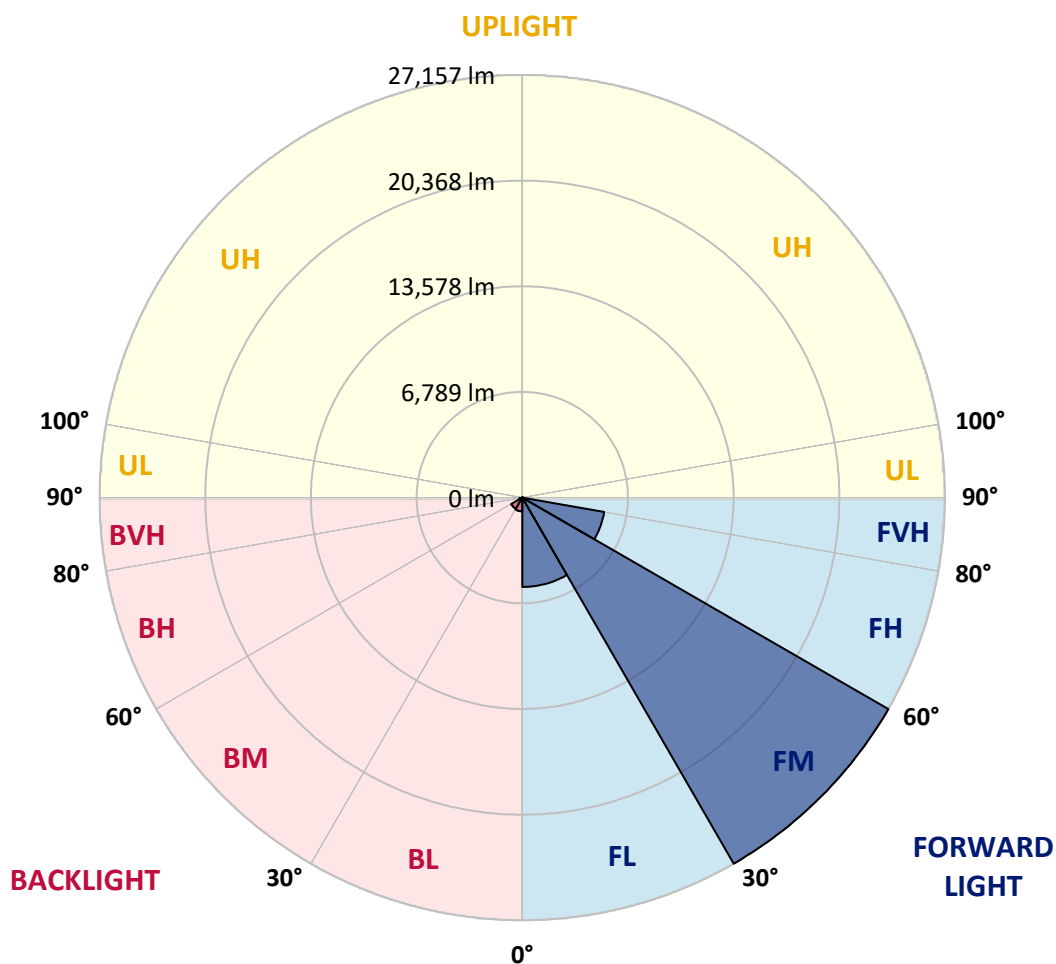
CATALOG NUMBER: GALN-SA7D-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5739.3 | 14.3 | | | |
| FM | (30°-60°) | 27156.8 | 67.5 | | | |
| FH | (60°-80°) | 5343.5 | 13.3 | | | G3/7500 |
| FVH | (80°-90°) | 63.4 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 879.2 | 2.2 | B2/1000 | | |
| BM | (30°-60°) | 823.9 | 2.0 | B1/1000 | | |
| BH | (60°-80°) | 190.4 | 0.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.6 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 |
| 2.5° | 11351.7 | 11273.0 | 11164.5 | 11080.5 | 10882.4 | 10597.6 | 10296.5 | 10296.5 | 10006.3 | 9602.2 | 9189.9 |
| 5° | 13093.1 | 13041.6 | 12935.8 | 12718.8 | 12496.4 | 12097.6 | 11492.7 | 11387.0 | 10868.9 | 10136.5 | 9366.2 |
| 7.5° | 13801.1 | 13825.5 | 13830.9 | 13773.9 | 13668.2 | 13274.8 | 12675.4 | 12602.1 | 11774.8 | 10792.9 | 9596.7 |
| 10° | 13122.9 | 13242.3 | 13358.9 | 13594.9 | 13928.5 | 14023.5 | 13684.4 | 13608.5 | 12794.7 | 11457.5 | 9846.3 |
| 12.5° | 12113.9 | 12179.0 | 12244.1 | 12615.7 | 13285.7 | 14053.3 | 14408.7 | 14405.9 | 13717.0 | 12119.3 | 10163.6 |
| 15° | 11644.6 | 11701.6 | 11707.0 | 11872.5 | 12453.0 | 13570.5 | 14717.9 | 14758.6 | 14617.5 | 12935.8 | 10505.4 |
| 17.5° | 11742.3 | 11788.4 | 11750.4 | 11791.1 | 12094.9 | 13038.9 | 14682.6 | 14818.2 | 15347.2 | 13719.7 | 10814.6 |
| 20° | 12379.7 | 12469.2 | 12322.8 | 12208.8 | 12301.1 | 12897.8 | 14563.3 | 14753.1 | 15862.5 | 14484.6 | 11096.7 |
| 22.5° | 13524.4 | 13573.2 | 13388.8 | 13076.8 | 12914.1 | 13193.5 | 14530.7 | 14717.9 | 16302.0 | 15111.2 | 11259.5 |
| 25° | 14796.5 | 14780.3 | 14576.8 | 14226.9 | 13885.1 | 13790.2 | 14745.0 | 14913.2 | 16665.4 | 15675.4 | 11308.3 |
| 27.5° | 16068.7 | 16117.5 | 15775.7 | 15341.7 | 14932.2 | 14685.3 | 15225.1 | 15349.9 | 17075.0 | 16318.2 | 11368.0 |
| 30° | 17547.0 | 17468.3 | 17132.0 | 16635.6 | 16166.3 | 15821.9 | 15998.2 | 16033.4 | 17639.2 | 17170.0 | 11525.3 |
| 32.5° | 19470.1 | 19253.1 | 18876.1 | 18008.1 | 17671.8 | 17088.6 | 17132.0 | 17175.4 | 18325.5 | 18013.5 | 11715.2 |
| 35° | 22079.5 | 22068.7 | 21330.9 | 20161.8 | 19342.6 | 18618.4 | 18428.5 | 18463.8 | 19364.3 | 19266.7 | 12135.6 |
| 37.5° | 25220.6 | 25264.0 | 24423.1 | 23245.9 | 21737.8 | 20587.7 | 20197.1 | 20202.5 | 20943.0 | 20997.3 | 12775.7 |
| 40° | 27778.4 | 27892.4 | 27390.6 | 26595.8 | 25106.6 | 23308.3 | 22651.9 | 22592.2 | 23161.8 | 23094.0 | 13689.9 |
| 42.5° | 28879.7 | 28985.5 | 29172.6 | 29449.3 | 28630.2 | 27146.4 | 25597.6 | 25679.0 | 25852.6 | 25377.9 | 14715.2 |
| 45° | 28339.9 | 28508.1 | 29243.2 | 30952.0 | 31722.4 | 31223.3 | 29376.1 | 29091.3 | 28356.2 | 27859.8 | 15745.9 |
| 47.5° | 26091.3 | 26500.9 | 27729.6 | 30575.0 | 33271.2 | 34958.4 | 33640.1 | 33263.1 | 30862.5 | 29671.7 | 16402.3 |
| 50° | 22394.2 | 22418.6 | 24130.2 | 27767.6 | 32468.3 | 37315.5 | 37993.6 | 37711.5 | 33198.0 | 30688.9 | 16733.2 |
| 52.5° | 16234.2 | 16768.5 | 18336.3 | 22548.8 | 28990.9 | 36957.4 | 40768.5 | 40651.8 | 35606.6 | 31209.7 | 17210.6 |
| 54° | 12341.8 | 12444.8 | 13839.0 | 18019.0 | 24995.4 | 34990.9 | 40939.4 | 40966.5 | 36802.8 | 31524.4 | 17492.7 |
| 55° | 10117.5 | 9870.7 | 11335.4 | 15349.9 | 22269.4 | 33252.2 | 40380.6 | 40510.8 | 37339.9 | 31687.1 | 17701.6 |
| 57.5° | 4795.7 | 4798.4 | 5918.6 | 8096.7 | 13947.5 | 25820.0 | 36965.6 | 37426.7 | 37399.6 | 31966.5 | 18344.5 |
| 60° | 2427.7 | 2443.9 | 2690.8 | 3737.8 | 6889.7 | 17164.5 | 30564.1 | 31662.7 | 34521.6 | 32007.2 | 18556.0 |
| 62.5° | 1698.0 | 1679.0 | 1638.3 | 1798.4 | 2899.6 | 8723.3 | 22754.9 | 23709.7 | 29330.0 | 30458.4 | 17883.3 |
| 65° | 1453.9 | 1413.2 | 1299.3 | 1274.9 | 1464.7 | 3474.7 | 14172.7 | 15729.6 | 22394.2 | 26373.4 | 15968.3 |
| 67.5° | 1242.3 | 1226.0 | 1123.0 | 1060.6 | 1036.2 | 1513.6 | 7312.8 | 8132.0 | 15306.5 | 18957.5 | 12094.9 |
| 70° | 1055.2 | 1047.0 | 984.6 | 906.0 | 838.2 | 906.0 | 2712.5 | 3360.8 | 8530.7 | 10207.0 | 5707.0 |
| 72.5° | 857.1 | 865.3 | 876.1 | 775.8 | 705.2 | 642.9 | 1158.2 | 1348.1 | 3569.6 | 3648.3 | 1996.4 |
| 75° | 751.4 | 743.2 | 743.2 | 675.4 | 588.6 | 477.4 | 637.4 | 686.3 | 1093.1 | 1014.5 | 463.8 |
| 77.5° | 528.9 | 509.9 | 596.7 | 556.1 | 491.0 | 339.1 | 363.5 | 385.2 | 453.0 | 387.9 | 217.0 |
| 80° | 366.2 | 366.2 | 382.5 | 499.1 | 442.1 | 246.8 | 222.4 | 238.7 | 268.5 | 230.6 | 124.8 |
| 82.5° | 206.1 | 211.6 | 249.5 | 265.8 | 257.7 | 165.5 | 146.5 | 149.2 | 179.0 | 157.3 | 78.7 |
| 85° | 24.4 | 40.7 | 143.8 | 141.0 | 105.8 | 73.2 | 81.4 | 84.1 | 111.2 | 97.6 | 46.1 |
| 87.5° | 2.7 | 5.4 | 29.8 | 38.0 | 27.1 | 29.8 | 29.8 | 29.8 | 38.0 | 43.4 | 32.5 |
| 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-SA7D-730-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 | 8932.2 |
| 2.5° | 8967.4 | 8761.3 | 8270.3 | 7700.7 | 7337.2 | 6745.9 | 6246.8 | 5886.1 | 5796.6 | 5623.0 | 5674.5 |
| 5° | 8956.6 | 8528.0 | 7527.1 | 6469.2 | 5340.9 | 4500.0 | 3873.4 | 3379.7 | 3162.7 | 3019.0 | 2918.6 |
| 7.5° | 8962.0 | 8292.0 | 6686.2 | 5001.8 | 3653.7 | 2829.1 | 2248.6 | 1947.6 | 1746.8 | 1662.7 | 1673.6 |
| 10° | 8978.3 | 8026.2 | 5709.8 | 3705.2 | 2465.6 | 1828.2 | 1472.9 | 1329.1 | 1261.3 | 1250.4 | 1247.7 |
| 12.5° | 9016.3 | 7736.0 | 4776.7 | 2750.4 | 1725.1 | 1329.1 | 1193.5 | 1144.7 | 1123.0 | 1123.0 | 1114.8 |
| 15° | 9056.9 | 7415.9 | 4000.9 | 2045.2 | 1329.1 | 1142.0 | 1079.6 | 1055.2 | 1041.6 | 1041.6 | 1038.9 |
| 17.5° | 9056.9 | 7047.0 | 3276.7 | 1586.8 | 1144.7 | 1049.7 | 1000.9 | 968.4 | 957.5 | 957.5 | 954.8 |
| 20° | 9000.0 | 6618.4 | 2633.8 | 1277.6 | 1038.9 | 962.9 | 914.1 | 878.8 | 865.3 | 859.9 | 857.1 |
| 22.5° | 8802.0 | 6046.1 | 2096.7 | 1098.6 | 952.1 | 887.0 | 824.6 | 783.9 | 773.1 | 767.6 | 770.3 |
| 25° | 8449.4 | 5400.5 | 1660.0 | 965.6 | 873.4 | 794.8 | 740.5 | 710.7 | 699.8 | 699.8 | 702.5 |
| 27.5° | 8085.9 | 4725.1 | 1315.5 | 865.3 | 778.5 | 708.0 | 664.6 | 645.6 | 642.9 | 651.0 | 653.7 |
| 30° | 7749.5 | 4047.0 | 1066.0 | 783.9 | 694.4 | 634.7 | 604.9 | 599.5 | 599.5 | 602.2 | 604.9 |
| 32.5° | 7375.2 | 3453.0 | 892.4 | 713.4 | 626.6 | 575.0 | 558.8 | 558.8 | 564.2 | 564.2 | 569.6 |
| 35° | 7139.2 | 2943.0 | 783.9 | 645.6 | 575.0 | 531.6 | 520.8 | 523.5 | 531.6 | 542.5 | 547.9 |
| 37.5° | 7011.7 | 2536.2 | 713.4 | 591.3 | 526.2 | 496.4 | 485.5 | 491.0 | 509.9 | 528.9 | 531.6 |
| 40° | 7022.6 | 2229.7 | 656.4 | 545.2 | 488.2 | 455.7 | 447.6 | 463.8 | 482.8 | 501.8 | 504.5 |
| 42.5° | 7141.9 | 2001.8 | 602.2 | 491.0 | 455.7 | 409.6 | 406.9 | 423.1 | 431.3 | 450.3 | 453.0 |
| 45° | 7283.0 | 1836.3 | 545.2 | 434.0 | 396.0 | 355.3 | 358.0 | 371.6 | 382.5 | 412.3 | 417.7 |
| 47.5° | 7326.4 | 1722.4 | 480.1 | 368.9 | 325.5 | 311.9 | 314.6 | 322.8 | 344.5 | 371.6 | 374.3 |
| 50° | 7375.2 | 1651.9 | 417.7 | 311.9 | 276.7 | 274.0 | 276.7 | 282.1 | 295.7 | 306.5 | 303.8 |
| 52.5° | 7584.1 | 1649.2 | 366.2 | 271.2 | 236.0 | 241.4 | 244.1 | 241.4 | 230.6 | 214.3 | 208.9 |
| 54° | 7779.4 | 1657.3 | 341.8 | 252.3 | 217.0 | 225.1 | 222.4 | 208.9 | 181.7 | 165.5 | 157.3 |
| 55° | 7936.7 | 1665.5 | 328.2 | 238.7 | 206.1 | 208.9 | 211.6 | 184.4 | 149.2 | 132.9 | 127.5 |
| 57.5° | 8245.9 | 1646.5 | 295.7 | 208.9 | 181.7 | 170.9 | 168.2 | 122.1 | 81.4 | 70.5 | 65.1 |
| 60° | 8091.3 | 1486.4 | 268.5 | 179.0 | 154.6 | 138.3 | 113.9 | 67.8 | 40.7 | 29.8 | 29.8 |
| 62.5° | 7483.7 | 1261.3 | 238.7 | 146.5 | 127.5 | 105.8 | 59.7 | 38.0 | 19.0 | 10.8 | 8.1 |
| 65° | 6694.4 | 1060.6 | 214.3 | 116.6 | 100.4 | 67.8 | 32.5 | 24.4 | 8.1 | 0.0 | 0.0 |
| 67.5° | 4977.4 | 786.6 | 181.7 | 92.2 | 75.9 | 43.4 | 21.7 | 13.6 | 2.7 | 0.0 | 0.0 |
| 70° | 2305.6 | 480.1 | 154.6 | 70.5 | 54.2 | 32.5 | 16.3 | 8.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 661.8 | 301.1 | 127.5 | 51.5 | 38.0 | 27.1 | 13.6 | 5.4 | 2.7 | 0.0 | 0.0 |
| 75° | 230.6 | 241.4 | 94.9 | 38.0 | 29.8 | 19.0 | 10.8 | 5.4 | 2.7 | 0.0 | 0.0 |
| 77.5° | 138.3 | 195.3 | 59.7 | 32.5 | 24.4 | 16.3 | 10.8 | 5.4 | 2.7 | 2.7 | 0.0 |
| 80° | 78.7 | 130.2 | 38.0 | 27.1 | 21.7 | 13.6 | 8.1 | 5.4 | 2.7 | 2.7 | 0.0 |
| 82.5° | 43.4 | 62.4 | 29.8 | 24.4 | 19.0 | 13.6 | 8.1 | 5.4 | 2.7 | 2.7 | 2.7 |
| 85° | 35.3 | 32.5 | 24.4 | 21.7 | 16.3 | 10.8 | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 27.1 | 21.7 | 21.7 | 21.7 | 16.3 | 10.8 | 8.1 | 2.7 | 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)