

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: P531930

Luminaire Tested: **GALN-SA7B-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26882 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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

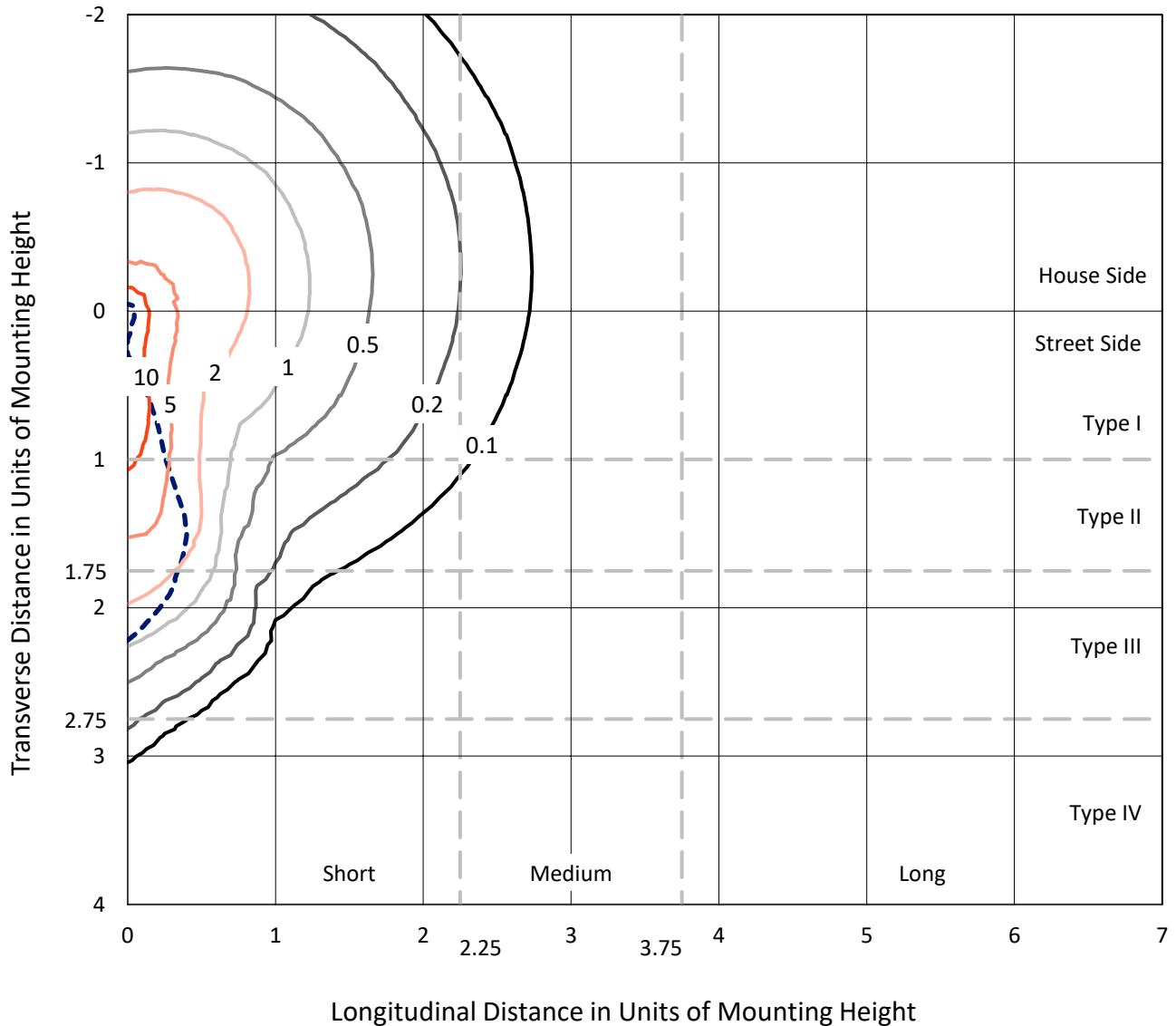




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Iso-Footcandle Lines of Horizontal Illumination

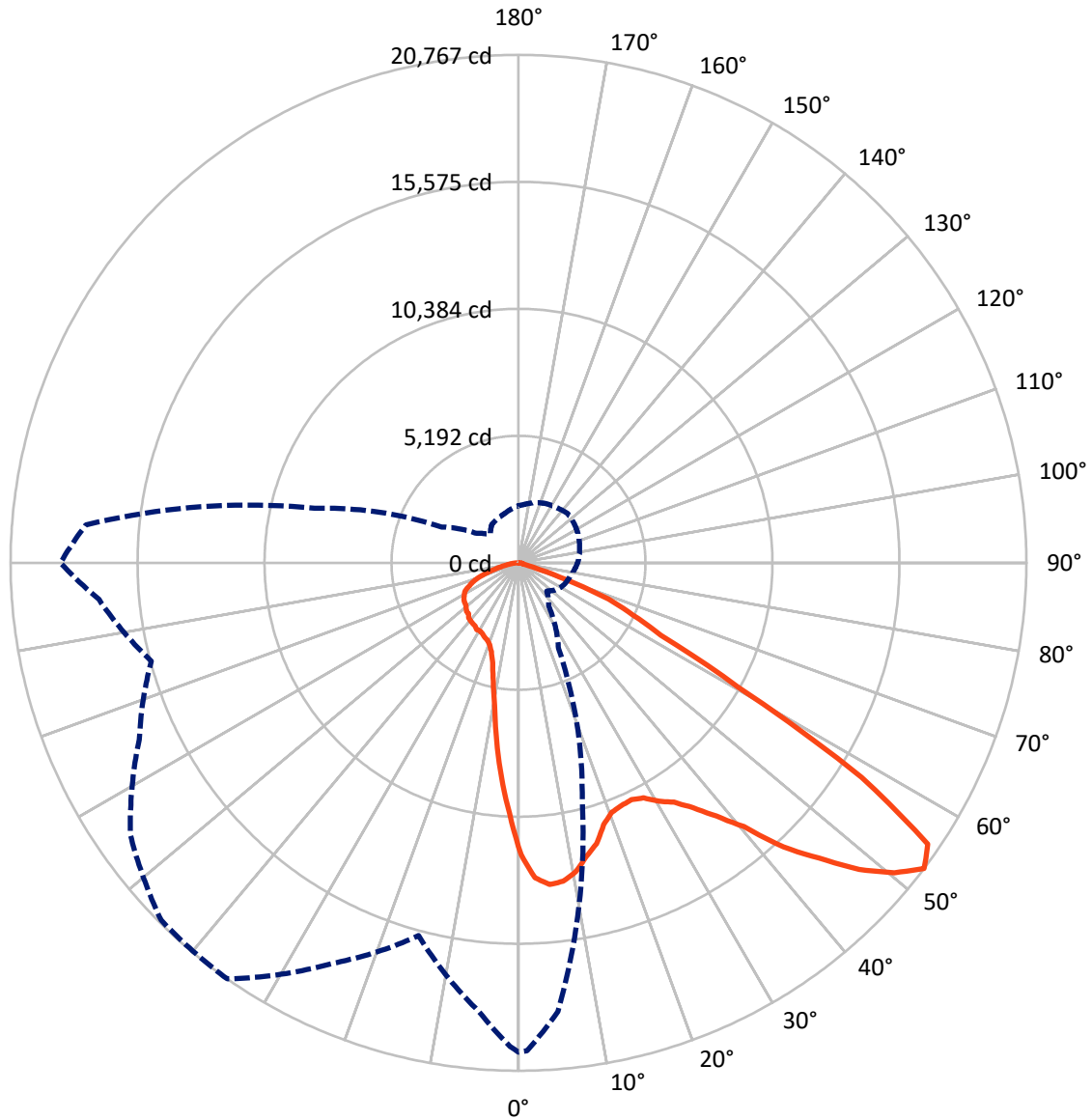
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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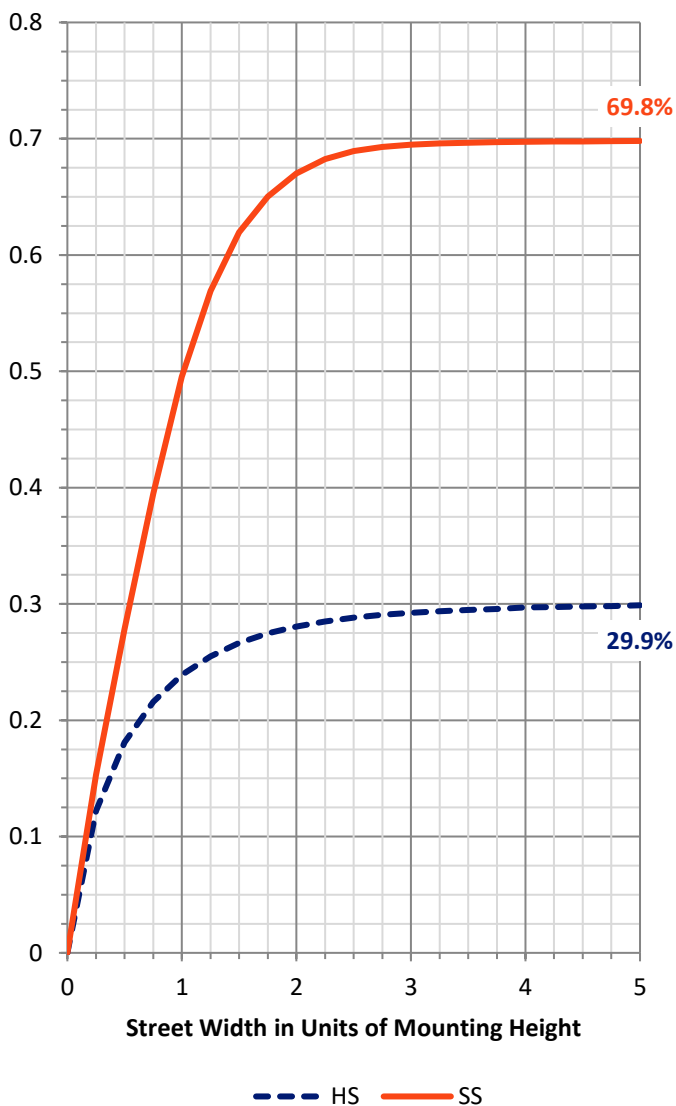
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8103.8 | 0.0 | 8103.8 |
| | % Fixture | 30.1 | 0.0 | 30.1 |
| Street Side | Lumens | 18778.2 | 0.0 | 18778.2 |
| | % Fixture | 69.9 | 0.0 | 69.9 |
| Total | Lumens | 26882.0 | 0.0 | 26882.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 910.2 | 3.4 |
| 10°-20° | 1973.1 | 7.3 |
| 20°-30° | 2981.3 | 11.1 |
| 30°-40° | 4308.0 | 16.0 |
| 40°-50° | 5733.2 | 21.3 |
| 50°-60° | 6412.8 | 23.9 |
| 60°-70° | 3614.2 | 13.4 |
| 70°-80° | 805.7 | 3.0 |
| 80°-90° | 143.5 | 0.5 |
| 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° | 26882.0 | 100.0 |
| 0°-180° | 26882.0 | 100.0 |

Coefficient of Utilization



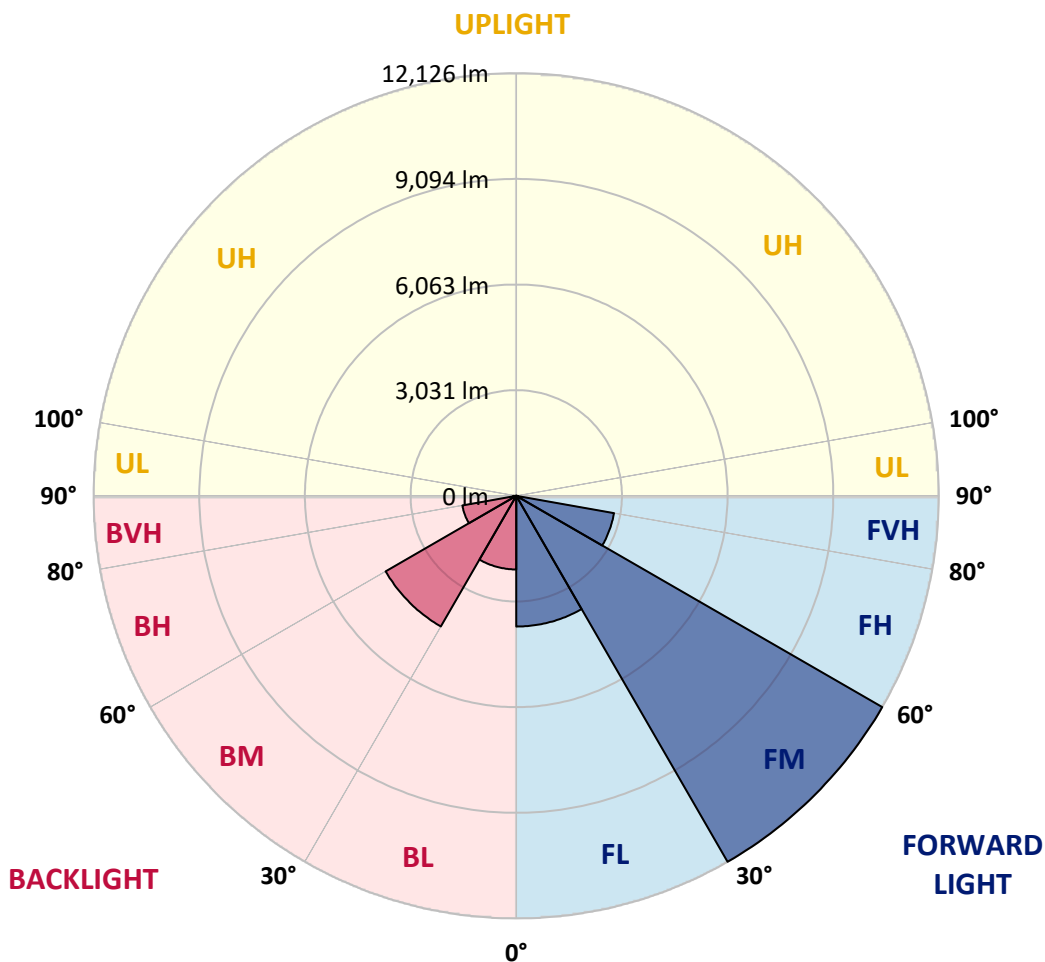
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3751.3 | 14.0 | | | |
| FM | (30°-60°) | 12125.8 | 45.1 | | | |
| FH | (60°-80°) | 2849.1 | 10.6 | | | G2/5000 |
| FVH | (80°-90°) | 52.0 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 2113.3 | 7.9 | B3/2500 | | |
| BM | (30°-60°) | 4328.2 | 16.1 | B3/5000 | | |
| BH | (60°-80°) | 1570.8 | 5.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 91.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 |
| 2.5° | 12129.1 | 12323.9 | 12113.5 | 11739.5 | 11474.5 | 11233.0 | 10979.7 | 10929.1 | 10597.9 | 10539.4 | 10297.9 |
| 5° | 11439.5 | 11396.6 | 11139.5 | 10648.5 | 10106.9 | 9616.0 | 9253.7 | 8903.0 | 8665.3 | 8388.7 | 8369.2 |
| 7.5° | 10601.8 | 10352.4 | 10204.3 | 9460.2 | 8790.0 | 8018.5 | 7687.4 | 7153.6 | 6986.0 | 6736.7 | 6608.1 |
| 10° | 9853.7 | 9670.6 | 9323.8 | 8579.6 | 7644.5 | 7134.1 | 6779.5 | 6491.2 | 6296.4 | 6039.2 | 5715.8 |
| 12.5° | 9483.5 | 9409.5 | 9019.9 | 7866.6 | 7173.0 | 6627.6 | 6378.2 | 6097.7 | 5766.5 | 5353.5 | 5193.7 |
| 15° | 9549.8 | 9300.4 | 9004.3 | 7730.2 | 6771.7 | 6245.7 | 5848.3 | 5497.6 | 5073.0 | 4679.4 | 4449.5 |
| 17.5° | 10044.6 | 9853.7 | 9261.4 | 7815.9 | 6619.8 | 5860.0 | 5139.2 | 4621.0 | 4239.1 | 3884.6 | 3724.8 |
| 20° | 11018.7 | 10742.0 | 10075.8 | 7925.0 | 6292.5 | 5322.3 | 4496.3 | 3857.3 | 3448.2 | 3261.2 | 3206.6 |
| 22.5° | 12097.9 | 11934.3 | 10870.6 | 8170.5 | 6031.4 | 4823.6 | 3814.5 | 3175.5 | 3023.5 | 2972.9 | 3074.2 |
| 25° | 13411.0 | 12986.3 | 12105.7 | 8571.8 | 5828.8 | 4398.9 | 3237.8 | 2883.2 | 2805.3 | 2856.0 | 2972.9 |
| 27.5° | 14408.4 | 14295.4 | 12970.7 | 8949.7 | 5552.2 | 3888.5 | 2914.4 | 2680.6 | 2704.0 | 2754.7 | 2863.8 |
| 30° | 15592.9 | 15020.1 | 13808.4 | 9210.8 | 5302.8 | 3537.8 | 2688.4 | 2626.1 | 2649.5 | 2735.2 | 2789.7 |
| 32.5° | 16305.9 | 16091.6 | 14334.4 | 9604.3 | 5014.5 | 3233.9 | 2513.1 | 2454.7 | 2489.7 | 2618.3 | 2746.9 |
| 35° | 17213.7 | 16789.1 | 14985.1 | 9705.6 | 4811.9 | 3113.1 | 2388.4 | 2345.6 | 2427.4 | 2517.0 | 2661.2 |
| 37.5° | 18273.5 | 17981.3 | 15885.1 | 9635.5 | 4702.8 | 2988.4 | 2283.2 | 2263.7 | 2322.2 | 2446.9 | 2614.4 |
| 40° | 18900.8 | 18811.2 | 16356.6 | 9678.3 | 4531.4 | 2879.3 | 2162.4 | 2185.8 | 2306.6 | 2404.0 | 2567.6 |
| 42.5° | 19504.8 | 18920.3 | 17054.0 | 9662.8 | 4422.3 | 2731.3 | 2174.1 | 2146.8 | 2240.4 | 2353.4 | 2509.2 |
| 45° | 19637.2 | 19056.7 | 17217.6 | 9553.7 | 4289.8 | 2587.1 | 2084.5 | 2096.2 | 2209.2 | 2349.5 | 2450.8 |
| 47.5° | 19551.5 | 19122.9 | 17521.6 | 9522.5 | 4165.1 | 2485.8 | 1952.0 | 2092.3 | 2158.5 | 2271.5 | 2415.7 |
| 50° | 19493.1 | 19469.7 | 17778.7 | 9670.6 | 3997.6 | 2326.1 | 1792.3 | 2041.6 | 2107.9 | 2220.9 | 2376.7 |
| 52.5° | 20007.4 | 19956.7 | 18421.6 | 10060.2 | 3865.1 | 2154.6 | 1628.6 | 1913.1 | 2072.8 | 2181.9 | 2333.9 |
| 55° | 20319.1 | 20097.0 | 19524.2 | 10539.4 | 3643.0 | 1928.7 | 1515.7 | 1753.3 | 1987.1 | 2084.5 | 2240.4 |
| 57.5° | 18277.4 | 18125.5 | 17661.8 | 9838.1 | 3269.0 | 1632.5 | 1375.4 | 1589.7 | 1870.2 | 2022.2 | 2181.9 |
| 60° | 15207.2 | 14969.5 | 13781.1 | 8361.4 | 2411.8 | 1270.2 | 1289.7 | 1461.1 | 1839.0 | 1897.5 | 2084.5 |
| 62.5° | 14338.3 | 13750.0 | 12133.0 | 6728.9 | 1850.7 | 1091.0 | 1157.2 | 1344.2 | 1675.4 | 1772.8 | 1959.8 |
| 65° | 11377.1 | 10940.7 | 8680.9 | 4858.7 | 1239.0 | 946.8 | 1055.9 | 1211.7 | 1445.5 | 1636.4 | 1807.9 |
| 67.5° | 7122.4 | 6705.5 | 4632.7 | 2298.8 | 865.0 | 810.4 | 942.9 | 1106.5 | 1297.5 | 1468.9 | 1659.8 |
| 70° | 3720.9 | 3265.1 | 2139.1 | 829.9 | 596.1 | 662.4 | 787.0 | 942.9 | 1129.9 | 1270.2 | 1418.2 |
| 72.5° | 1387.1 | 1126.0 | 697.4 | 358.5 | 413.0 | 506.5 | 639.0 | 752.0 | 884.5 | 1055.9 | 1137.7 |
| 75° | 214.3 | 183.1 | 179.2 | 218.2 | 280.5 | 366.2 | 455.9 | 568.9 | 685.7 | 794.8 | 849.4 |
| 77.5° | 101.3 | 97.4 | 109.1 | 144.2 | 187.0 | 261.1 | 331.2 | 440.3 | 533.8 | 603.9 | 635.1 |
| 80° | 66.2 | 62.3 | 70.1 | 97.4 | 140.3 | 194.8 | 264.9 | 339.0 | 424.7 | 483.1 | 475.3 |
| 82.5° | 39.0 | 42.9 | 42.9 | 66.2 | 97.4 | 140.3 | 190.9 | 257.2 | 315.6 | 366.2 | 335.1 |
| 85° | 23.4 | 19.5 | 19.5 | 39.0 | 66.2 | 113.0 | 159.7 | 109.1 | 113.0 | 113.0 | 128.6 |
| 87.5° | 7.8 | 7.8 | 7.8 | 3.9 | 7.8 | 7.8 | 11.7 | 19.5 | 23.4 | 27.3 | 35.1 |
| 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-SA7B-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 |
| 2.5° | 10290.1 | 10410.8 | 10368.0 | 10216.0 | 10332.9 | 10352.4 | 10274.5 | 10543.3 | 10594.0 | 10512.2 | 10535.5 |
| 5° | 8341.9 | 8373.1 | 8443.2 | 8591.3 | 8696.5 | 8821.2 | 8821.2 | 8829.0 | 8723.8 | 8988.7 | 8910.8 |
| 7.5° | 6499.0 | 6518.5 | 6600.3 | 6915.9 | 7005.5 | 7243.2 | 7344.5 | 7274.3 | 7063.9 | 6974.3 | 7048.4 |
| 10° | 5610.6 | 5497.6 | 5470.4 | 5509.3 | 5711.9 | 5813.2 | 5899.0 | 5875.6 | 5840.5 | 5770.4 | 5692.5 |
| 12.5° | 5018.4 | 4936.6 | 4870.3 | 4776.8 | 4788.5 | 4885.9 | 4952.2 | 4897.6 | 4913.2 | 4928.8 | 4952.2 |
| 15° | 4375.5 | 4317.1 | 4282.0 | 4141.7 | 4126.2 | 4192.4 | 4215.8 | 4246.9 | 4305.4 | 4309.3 | 4282.0 |
| 17.5° | 3693.7 | 3643.0 | 3720.9 | 3798.9 | 3744.3 | 3748.2 | 3791.1 | 3818.4 | 3802.8 | 3732.6 | 3697.6 |
| 20° | 3226.1 | 3280.7 | 3358.6 | 3432.6 | 3491.1 | 3526.1 | 3541.7 | 3498.9 | 3448.2 | 3304.0 | 3300.1 |
| 22.5° | 3089.7 | 3159.9 | 3226.1 | 3339.1 | 3393.7 | 3483.3 | 3401.4 | 3304.0 | 3233.9 | 3163.8 | 3082.0 |
| 25° | 2988.4 | 3046.9 | 3179.4 | 3222.2 | 3327.4 | 3401.4 | 3343.0 | 3245.6 | 3124.8 | 3023.5 | 2961.2 |
| 27.5° | 2914.4 | 2980.7 | 3066.4 | 3183.3 | 3265.1 | 3307.9 | 3249.5 | 3210.5 | 3085.9 | 2965.1 | 2875.5 |
| 30° | 2867.7 | 2937.8 | 3093.6 | 3191.0 | 3261.2 | 3296.2 | 3194.9 | 3148.2 | 3058.6 | 2957.3 | 2879.3 |
| 32.5° | 2836.5 | 2898.8 | 3031.3 | 3156.0 | 3202.7 | 3202.7 | 3218.3 | 3163.8 | 3039.1 | 2867.7 | 2801.4 |
| 35° | 2735.2 | 2820.9 | 2930.0 | 3074.2 | 3159.9 | 3210.5 | 3132.6 | 3070.3 | 2988.4 | 2813.1 | 2692.3 |
| 37.5° | 2676.7 | 2735.2 | 2875.5 | 3011.8 | 3085.9 | 3140.4 | 3109.2 | 3000.1 | 2891.0 | 2746.9 | 2649.5 |
| 40° | 2614.4 | 2707.9 | 2832.6 | 2961.2 | 3043.0 | 3097.5 | 3074.2 | 2945.6 | 2813.1 | 2676.7 | 2610.5 |
| 42.5° | 2571.5 | 2633.9 | 2762.5 | 2906.6 | 3004.0 | 3109.2 | 3039.1 | 2879.3 | 2785.8 | 2598.8 | 2524.8 |
| 45° | 2536.5 | 2637.8 | 2774.1 | 2832.6 | 2933.9 | 3043.0 | 2918.3 | 2820.9 | 2711.8 | 2575.4 | 2513.1 |
| 47.5° | 2493.6 | 2587.1 | 2676.7 | 2832.6 | 2879.3 | 2930.0 | 2906.6 | 2750.8 | 2657.3 | 2509.2 | 2466.3 |
| 50° | 2478.0 | 2513.1 | 2676.7 | 2762.5 | 2828.7 | 2879.3 | 2817.0 | 2700.1 | 2610.5 | 2458.6 | 2365.0 |
| 52.5° | 2415.7 | 2481.9 | 2587.1 | 2700.1 | 2781.9 | 2844.3 | 2743.0 | 2668.9 | 2548.2 | 2388.4 | 2330.0 |
| 55° | 2337.8 | 2376.7 | 2563.7 | 2680.6 | 2723.5 | 2766.4 | 2727.4 | 2606.6 | 2481.9 | 2318.3 | 2259.8 |
| 57.5° | 2236.5 | 2326.1 | 2478.0 | 2641.7 | 2696.2 | 2719.6 | 2657.3 | 2559.9 | 2404.0 | 2259.8 | 2166.3 |
| 60° | 2131.3 | 2224.8 | 2392.3 | 2524.8 | 2579.3 | 2665.1 | 2571.5 | 2513.1 | 2333.9 | 2174.1 | 2072.8 |
| 62.5° | 2026.1 | 2131.3 | 2255.9 | 2423.5 | 2470.2 | 2505.3 | 2481.9 | 2400.1 | 2255.9 | 2076.7 | 1952.0 |
| 65° | 1901.4 | 1979.3 | 2135.2 | 2220.9 | 2252.0 | 2333.9 | 2252.0 | 2220.9 | 2092.3 | 1920.9 | 1815.7 |
| 67.5° | 1714.4 | 1780.6 | 1917.0 | 1998.8 | 2022.2 | 2057.2 | 2053.3 | 2018.3 | 1874.1 | 1757.2 | 1663.7 |
| 70° | 1500.1 | 1558.5 | 1644.2 | 1741.6 | 1753.3 | 1796.2 | 1757.2 | 1749.4 | 1655.9 | 1496.2 | 1445.5 |
| 72.5° | 1203.9 | 1258.5 | 1371.5 | 1414.3 | 1418.2 | 1433.8 | 1414.3 | 1387.1 | 1363.7 | 1196.2 | 1145.5 |
| 75° | 923.4 | 954.6 | 1009.1 | 1048.1 | 1048.1 | 1067.6 | 1055.9 | 1028.6 | 966.3 | 861.1 | 810.4 |
| 77.5° | 642.9 | 674.1 | 744.2 | 767.6 | 763.7 | 771.5 | 736.4 | 709.1 | 615.6 | 561.1 | 518.2 |
| 80° | 467.6 | 487.0 | 522.1 | 537.7 | 541.6 | 553.3 | 510.4 | 487.0 | 432.5 | 370.1 | 350.7 |
| 82.5° | 339.0 | 350.7 | 354.6 | 374.0 | 374.0 | 354.6 | 342.9 | 319.5 | 280.5 | 241.6 | 226.0 |
| 85° | 140.3 | 144.2 | 148.1 | 171.4 | 175.3 | 210.4 | 194.8 | 183.1 | 159.7 | 136.4 | 124.7 |
| 87.5° | 35.1 | 39.0 | 50.7 | 42.9 | 50.7 | 50.7 | 54.5 | 62.3 | 62.3 | 50.7 | 50.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 | 11930.4 |
| 2.5° | 10625.1 | 10656.3 | 11053.7 | 11104.4 | 11299.2 | 11497.9 | 11899.2 | 12187.6 | 12421.3 | 12573.3 | 12616.1 |
| 5° | 8992.6 | 9191.3 | 9374.4 | 9670.6 | 9939.4 | 10321.2 | 10761.5 | 11307.0 | 11992.7 | 12343.4 | 12483.7 |
| 7.5° | 7040.6 | 7274.3 | 7539.3 | 7827.6 | 8221.1 | 8906.9 | 9495.2 | 10126.4 | 11003.1 | 11365.4 | 11914.8 |
| 10° | 5747.0 | 6008.1 | 6358.7 | 6580.8 | 7056.2 | 7710.7 | 8396.5 | 9125.1 | 9962.8 | 10484.9 | 11120.0 |
| 12.5° | 5080.7 | 5295.0 | 5618.4 | 6086.0 | 6440.5 | 6865.2 | 7375.7 | 8295.2 | 9495.2 | 9990.1 | 10426.4 |
| 15° | 4344.3 | 4582.0 | 4956.1 | 5474.3 | 5899.0 | 6405.5 | 6978.2 | 7979.6 | 9257.6 | 10021.2 | 10391.4 |
| 17.5° | 3736.5 | 3908.0 | 4301.5 | 4749.6 | 5236.6 | 5789.9 | 6612.0 | 7964.0 | 9506.9 | 10484.9 | 11088.8 |
| 20° | 3315.7 | 3339.1 | 3553.4 | 3935.2 | 4597.6 | 5318.4 | 6386.0 | 7886.1 | 10305.6 | 11283.6 | 12047.3 |
| 22.5° | 3050.8 | 3027.4 | 3031.3 | 3354.7 | 3818.4 | 4854.8 | 6031.4 | 8151.0 | 11213.5 | 12553.8 | 13068.1 |
| 25° | 2918.3 | 2856.0 | 2817.0 | 2887.1 | 3307.9 | 4305.4 | 5762.6 | 8501.7 | 12191.4 | 13601.9 | 14233.1 |
| 27.5° | 2848.2 | 2739.1 | 2661.2 | 2672.8 | 2980.7 | 4028.7 | 5595.1 | 8653.6 | 13161.6 | 15063.0 | 15285.1 |
| 30° | 2820.9 | 2684.5 | 2571.5 | 2532.6 | 2735.2 | 3643.0 | 5236.6 | 8914.7 | 14030.5 | 15865.6 | 16056.6 |
| 32.5° | 2723.5 | 2556.0 | 2446.9 | 2411.8 | 2493.6 | 3304.0 | 4979.4 | 9101.7 | 14798.1 | 16738.4 | 16672.2 |
| 35° | 2610.5 | 2470.2 | 2333.9 | 2267.6 | 2326.1 | 3085.9 | 4772.9 | 9012.1 | 15702.0 | 17416.4 | 17381.3 |
| 37.5° | 2598.8 | 2415.7 | 2302.7 | 2193.6 | 2189.7 | 2817.0 | 4492.4 | 9097.8 | 16278.6 | 18632.0 | 18152.7 |
| 40° | 2497.5 | 2380.6 | 2232.6 | 2143.0 | 2092.3 | 2680.6 | 4219.7 | 8895.2 | 17124.1 | 19122.9 | 18651.5 |
| 42.5° | 2501.4 | 2326.1 | 2197.5 | 2092.3 | 2041.6 | 2481.9 | 4032.6 | 8840.7 | 17420.2 | 19921.7 | 18885.2 |
| 45° | 2439.1 | 2267.6 | 2158.5 | 2033.9 | 2006.6 | 2330.0 | 3853.4 | 8587.4 | 17942.4 | 19960.6 | 18593.0 |
| 47.5° | 2376.7 | 2224.8 | 2107.9 | 1959.8 | 1897.5 | 2275.4 | 3713.2 | 8377.0 | 17669.6 | 19594.4 | 18187.8 |
| 50° | 2333.9 | 2158.5 | 2049.4 | 1944.2 | 1768.9 | 2181.9 | 3530.0 | 8326.3 | 17287.8 | 19099.5 | 17435.8 |
| 52.5° | 2259.8 | 2104.0 | 1991.0 | 1909.2 | 1628.6 | 2096.2 | 3459.9 | 8622.5 | 17755.3 | 18729.4 | 17217.6 |
| 55° | 2189.7 | 2030.0 | 1885.8 | 1726.1 | 1511.8 | 1870.2 | 3265.1 | 8899.1 | 18437.2 | 19582.7 | 18207.3 |
| 57.5° | 2115.7 | 1963.7 | 1807.9 | 1617.0 | 1398.8 | 1636.4 | 3062.5 | 8949.7 | 17159.2 | 18098.2 | 17283.9 |
| 60° | 2018.3 | 1823.5 | 1706.6 | 1457.2 | 1278.0 | 1355.9 | 2427.4 | 7890.0 | 13309.7 | 15113.7 | 15140.9 |
| 62.5° | 1909.2 | 1698.8 | 1597.5 | 1305.3 | 1153.3 | 1168.9 | 1979.3 | 6631.5 | 10796.6 | 12510.9 | 13255.1 |
| 65° | 1765.0 | 1562.4 | 1441.6 | 1207.8 | 1063.7 | 1013.0 | 1449.4 | 4858.7 | 8201.7 | 10149.8 | 10995.3 |
| 67.5° | 1578.0 | 1387.1 | 1235.1 | 1052.0 | 950.7 | 868.9 | 989.7 | 2735.2 | 4843.1 | 6814.6 | 7071.7 |
| 70° | 1379.3 | 1215.6 | 1055.9 | 903.9 | 790.9 | 732.5 | 724.7 | 1211.7 | 2314.4 | 3666.4 | 4172.9 |
| 72.5° | 1087.1 | 970.2 | 841.6 | 728.6 | 654.6 | 568.9 | 518.2 | 502.6 | 783.2 | 1492.3 | 2061.1 |
| 75° | 779.3 | 681.8 | 607.8 | 533.8 | 479.2 | 432.5 | 393.5 | 358.5 | 327.3 | 374.0 | 514.3 |
| 77.5° | 490.9 | 455.9 | 397.4 | 377.9 | 346.8 | 335.1 | 319.5 | 300.0 | 276.6 | 261.1 | 261.1 |
| 80° | 331.2 | 307.8 | 288.3 | 284.4 | 272.7 | 268.8 | 272.7 | 253.3 | 229.9 | 210.4 | 218.2 |
| 82.5° | 222.1 | 218.2 | 214.3 | 210.4 | 214.3 | 218.2 | 226.0 | 222.1 | 202.6 | 190.9 | 194.8 |
| 85° | 132.5 | 140.3 | 148.1 | 155.9 | 171.4 | 152.0 | 124.7 | 105.2 | 93.5 | 85.7 | 81.8 |
| 87.5° | 50.7 | 70.1 | 62.3 | 58.4 | 62.3 | 58.4 | 54.5 | 50.7 | 42.9 | 39.0 | 39.0 |
| 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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| 47.5° | 15596.8 | 16489.0 | 17806.0 | 19006.0 | 18733.3 | 17022.8 | 15705.9 | 18713.8 | 19851.5 | 19551.5 |
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| 52.5° | 15538.3 | 17108.5 | 19372.3 | 20665.8 | 20767.2 | 18078.7 | 15779.9 | 18429.4 | 19777.5 | 20007.4 |
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| 57.5° | 14821.4 | 15207.2 | 15939.7 | 16754.0 | 16543.6 | 14735.7 | 14120.1 | 17217.6 | 18441.1 | 18277.4 |
| 60° | 12799.3 | 11591.4 | 10765.4 | 10726.4 | 10317.3 | 9752.4 | 11556.4 | 15366.9 | 15366.9 | 15207.2 |
| 62.5° | 11209.6 | 7609.4 | 6538.0 | 6234.0 | 6526.3 | 7176.9 | 11147.2 | 14946.1 | 14521.4 | 14338.3 |
| 65° | 9803.0 | 5809.3 | 4726.2 | 4640.5 | 5147.0 | 6128.8 | 10079.7 | 12733.0 | 11984.9 | 11377.1 |
| 67.5° | 6308.1 | 4254.7 | 3514.4 | 3362.5 | 3974.2 | 4500.2 | 6709.4 | 7831.5 | 7360.1 | 7122.4 |
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| 75° | 611.7 | 440.3 | 280.5 | 241.6 | 229.9 | 272.7 | 389.6 | 300.0 | 218.2 | 214.3 |
| 77.5° | 272.7 | 261.1 | 222.1 | 187.0 | 163.6 | 136.4 | 113.0 | 93.5 | 97.4 | 101.3 |
| 80° | 226.0 | 206.5 | 183.1 | 163.6 | 136.4 | 105.2 | 81.8 | 62.3 | 62.3 | 66.2 |
| 82.5° | 198.7 | 179.2 | 159.7 | 136.4 | 116.9 | 85.7 | 62.3 | 42.9 | 39.0 | 39.0 |
| 85° | 85.7 | 101.3 | 109.1 | 116.9 | 93.5 | 70.1 | 42.9 | 27.3 | 23.4 | 23.4 |
| 87.5° | 35.1 | 31.2 | 27.3 | 23.4 | 19.5 | 19.5 | 15.6 | 11.7 | 7.8 | 7.8 |
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