

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: P452880

Luminaire Tested: **GALN-SA3D-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22901 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

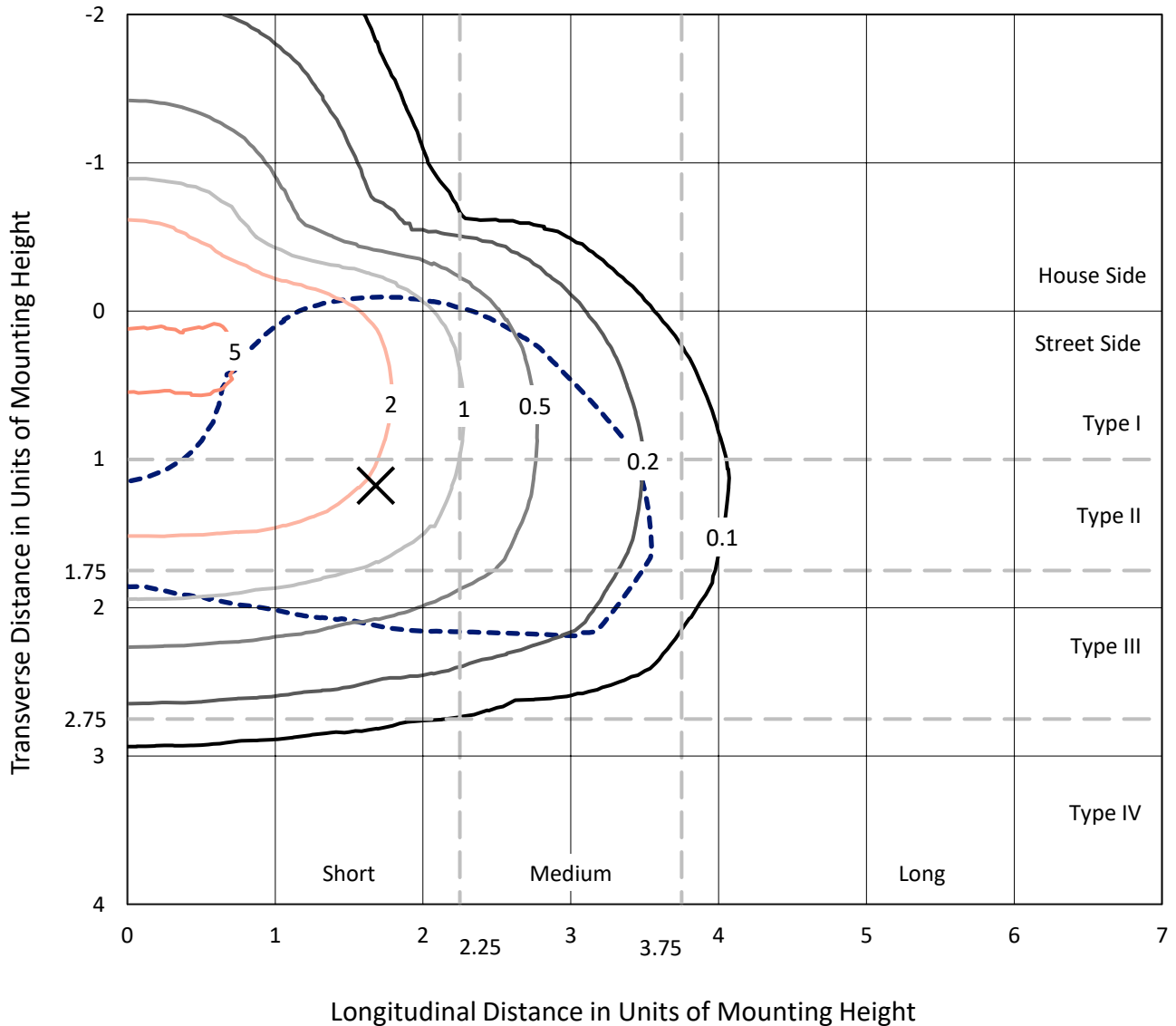
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

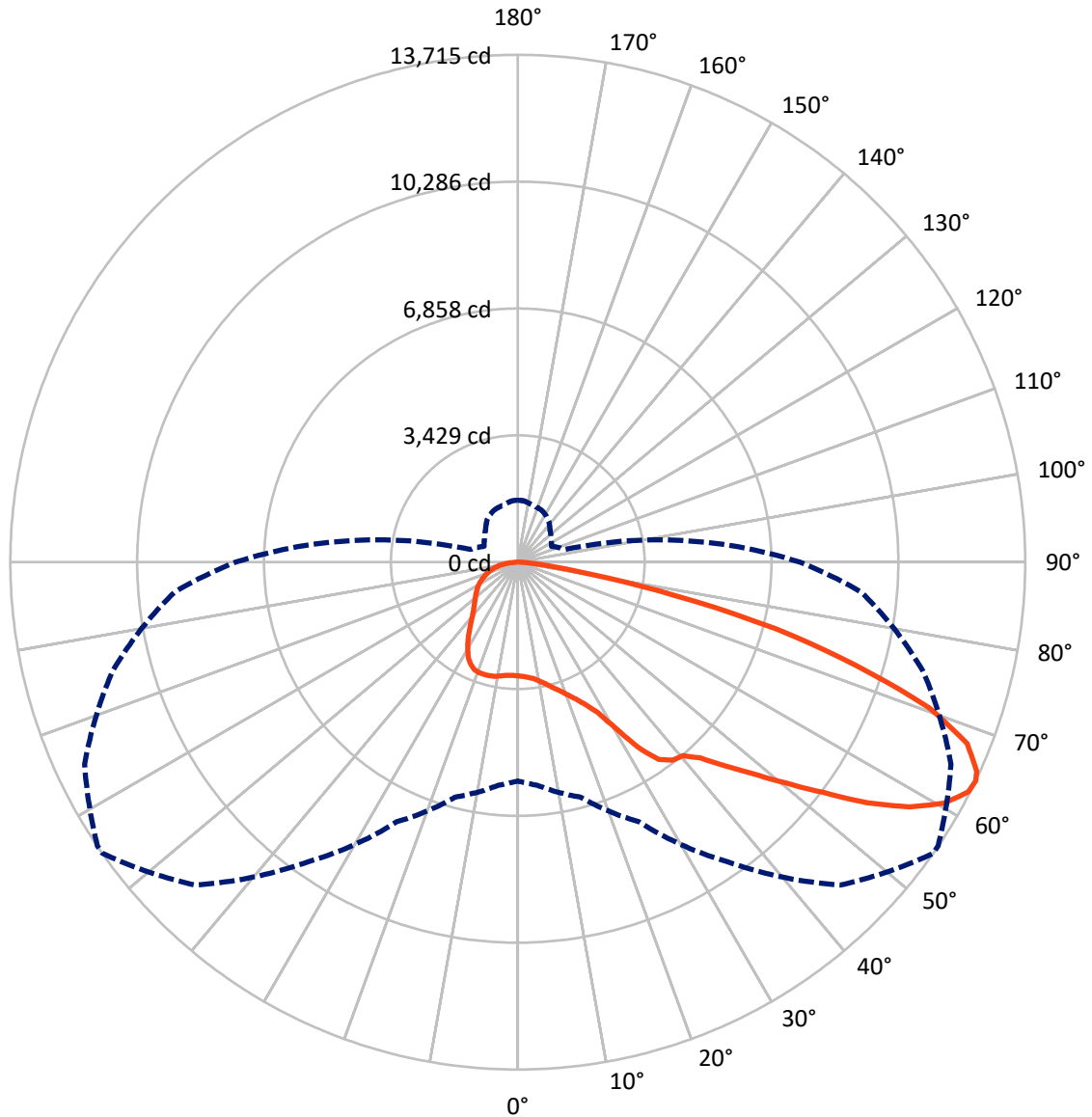
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5563.1 | 0.0 | 5563.1 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 17337.9 | 0.0 | 17337.9 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 22901.0 | 0.0 | 22901.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 298.9 | 1.3 |
| 10°-20° | 943.1 | 4.1 |
| 20°-30° | 1678.9 | 7.3 |
| 30°-40° | 2583.2 | 11.3 |
| 40°-50° | 3661.9 | 16.0 |
| 50°-60° | 5300.5 | 23.1 |
| 60°-70° | 5485.4 | 24.0 |
| 70°-80° | 2568.8 | 11.2 |
| 80°-90° | 380.3 | 1.7 |
| 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° | 22901.0 | 100.0 |
| 0°-180° | 22901.0 | 100.0 |

Coefficient of Utilization



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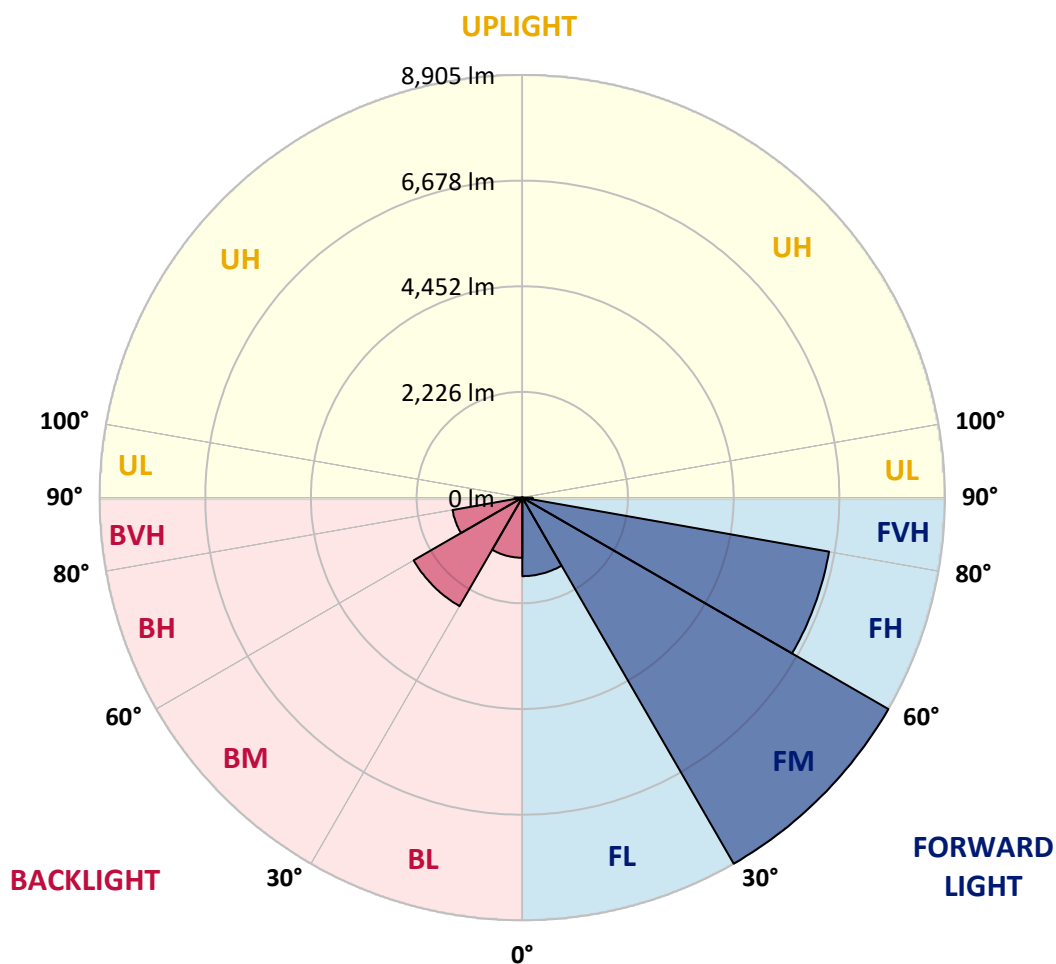
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1653.8 | 7.2 | | | |
| FM | (30°-60°) | 8904.5 | 38.9 | | | |
| FH | (60°-80°) | 6561.8 | 28.7 | | | G3/7500 |
| FVH | (80°-90°) | 217.7 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 1267.1 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 2641.0 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 1492.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 162.5 | 0.7 | | | G2/225 |
| 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° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 |
| 2.5° | 3107.1 | 3105.8 | 3109.6 | 3105.8 | 3108.4 | 3099.4 | 3095.6 | 3098.2 | 3094.3 | 3087.9 | 3076.5 |
| 5° | 3145.4 | 3144.1 | 3145.4 | 3140.3 | 3142.8 | 3137.7 | 3128.8 | 3131.3 | 3125.0 | 3110.9 | 3094.3 |
| 7.5° | 3210.5 | 3205.4 | 3205.4 | 3204.1 | 3199.0 | 3191.3 | 3185.0 | 3182.4 | 3176.0 | 3158.2 | 3132.6 |
| 10° | 3294.7 | 3294.7 | 3296.0 | 3285.8 | 3292.2 | 3278.1 | 3271.8 | 3270.5 | 3248.8 | 3225.8 | 3190.1 |
| 12.5° | 3405.8 | 3412.2 | 3408.4 | 3403.2 | 3400.7 | 3395.6 | 3373.9 | 3379.0 | 3354.7 | 3315.2 | 3271.8 |
| 15° | 3543.7 | 3553.9 | 3547.5 | 3544.9 | 3538.6 | 3519.4 | 3510.5 | 3506.6 | 3474.7 | 3417.3 | 3359.8 |
| 17.5° | 3726.2 | 3713.4 | 3708.3 | 3702.0 | 3675.1 | 3661.1 | 3645.8 | 3643.2 | 3615.2 | 3547.5 | 3458.1 |
| 20° | 3885.8 | 3903.6 | 3893.4 | 3887.1 | 3860.2 | 3833.4 | 3821.9 | 3818.1 | 3793.9 | 3719.8 | 3576.9 |
| 22.5° | 4076.0 | 4079.8 | 4083.6 | 4068.3 | 4055.6 | 4035.1 | 4014.7 | 4008.3 | 3999.4 | 3922.8 | 3747.9 |
| 25° | 4278.9 | 4294.3 | 4281.5 | 4266.2 | 4250.9 | 4249.6 | 4268.7 | 4266.2 | 4262.4 | 4188.3 | 3975.1 |
| 27.5° | 4609.6 | 4623.6 | 4627.4 | 4610.8 | 4552.1 | 4557.2 | 4600.6 | 4614.7 | 4673.4 | 4550.9 | 4267.5 |
| 30° | 4795.9 | 4810.0 | 4841.9 | 4904.5 | 4997.6 | 5079.3 | 5184.0 | 5215.9 | 5272.1 | 5041.0 | 4614.7 |
| 32.5° | 4910.8 | 4915.9 | 4973.4 | 5089.6 | 5369.1 | 5674.2 | 5958.9 | 5970.4 | 6006.1 | 5681.9 | 4932.5 |
| 35° | 5092.1 | 5095.9 | 5141.9 | 5269.5 | 5597.6 | 6105.7 | 6546.1 | 6560.1 | 6530.8 | 5881.0 | 5080.6 |
| 37.5° | 5315.5 | 5325.7 | 5355.1 | 5461.0 | 5852.9 | 6466.9 | 6789.9 | 6779.7 | 6519.3 | 6039.3 | 5342.3 |
| 40° | 5641.0 | 5641.0 | 5606.5 | 5749.5 | 6122.3 | 6673.7 | 6875.4 | 6857.6 | 6788.6 | 6497.6 | 5740.6 |
| 42.5° | 5928.2 | 5923.1 | 6004.8 | 6101.8 | 6459.3 | 6992.9 | 7234.1 | 7263.5 | 7377.1 | 7073.3 | 6193.8 |
| 45° | 6302.3 | 6325.2 | 6371.2 | 6547.4 | 7032.4 | 7537.9 | 7849.4 | 7877.5 | 8038.3 | 7751.1 | 6723.5 |
| 47.5° | 6680.1 | 6687.8 | 6832.0 | 7066.9 | 7742.2 | 8277.1 | 8532.4 | 8578.3 | 8725.1 | 8543.9 | 7294.1 |
| 50° | 6948.2 | 7020.9 | 7252.0 | 7622.2 | 8473.6 | 9178.3 | 9377.4 | 9432.3 | 9691.5 | 9406.8 | 7959.2 |
| 52.5° | 7231.6 | 7303.1 | 7585.2 | 8149.4 | 9313.6 | 10100.0 | 10345.1 | 10382.1 | 10651.4 | 10279.9 | 8639.6 |
| 55° | 7474.1 | 7540.5 | 7860.9 | 8616.6 | 9982.5 | 11040.8 | 11485.0 | 11441.6 | 11570.5 | 10952.7 | 9164.3 |
| 57.5° | 7513.7 | 7567.3 | 7970.7 | 8915.3 | 10485.5 | 11847.5 | 12484.5 | 12510.1 | 12360.7 | 11455.6 | 9597.0 |
| 60° | 7207.3 | 7317.1 | 7780.5 | 8883.4 | 10711.4 | 12409.2 | 13230.0 | 13247.9 | 12824.1 | 11713.5 | 9769.3 |
| 62.5° | 6664.8 | 6653.3 | 7213.7 | 8370.2 | 10394.8 | 12536.9 | 13669.2 | 13650.0 | 13005.4 | 11589.7 | 9602.1 |
| 64° | 5915.5 | 6053.3 | 6576.7 | 7739.6 | 9884.2 | 12340.3 | 13715.1 | 13704.9 | 12918.5 | 11331.8 | 9317.4 |
| 65° | 5458.5 | 5450.8 | 5967.8 | 7223.9 | 9376.2 | 12044.1 | 13633.4 | 13619.4 | 12737.3 | 11100.8 | 9096.6 |
| 67.5° | 3940.7 | 3958.5 | 4469.2 | 5574.6 | 7622.2 | 10886.3 | 13101.1 | 13048.8 | 12022.4 | 10334.8 | 8256.6 |
| 70° | 2387.1 | 2397.3 | 2798.2 | 3698.1 | 5471.2 | 8800.4 | 11809.2 | 11811.8 | 10928.4 | 9191.1 | 7027.3 |
| 72.5° | 1257.4 | 1284.2 | 1445.0 | 2099.9 | 3322.8 | 6174.6 | 9580.4 | 9807.6 | 9382.5 | 7844.3 | 5551.7 |
| 75° | 699.5 | 703.4 | 817.0 | 1035.3 | 1695.2 | 3455.6 | 7200.9 | 7266.0 | 7428.2 | 6313.7 | 4105.3 |
| 77.5° | 533.6 | 541.3 | 577.0 | 668.9 | 922.9 | 1602.1 | 4358.1 | 4684.9 | 5235.1 | 4451.3 | 2342.4 |
| 80° | 432.7 | 440.4 | 471.0 | 525.9 | 614.0 | 759.5 | 2024.6 | 2200.7 | 2802.0 | 1976.1 | 914.0 |
| 82.5° | 337.0 | 331.9 | 371.5 | 407.2 | 446.8 | 449.3 | 831.0 | 919.1 | 1141.2 | 850.2 | 395.7 |
| 85° | 250.2 | 250.2 | 282.1 | 274.5 | 288.5 | 263.0 | 366.4 | 404.7 | 457.0 | 361.3 | 183.8 |
| 87.5° | 99.6 | 109.8 | 185.1 | 165.9 | 128.9 | 103.4 | 135.3 | 143.0 | 158.3 | 141.7 | 76.6 |
| 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-SA3D-760-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 |
| 2.5° | 3077.7 | 3081.6 | 3072.6 | 3066.2 | 3063.7 | 3059.9 | 3056.0 | 3057.3 | 3062.4 | 3067.5 | 3066.2 |
| 5° | 3093.0 | 3094.3 | 3079.0 | 3071.3 | 3066.2 | 3061.1 | 3061.1 | 3065.0 | 3075.2 | 3082.8 | 3082.8 |
| 7.5° | 3131.3 | 3131.3 | 3109.6 | 3095.6 | 3087.9 | 3079.0 | 3076.5 | 3077.7 | 3085.4 | 3095.6 | 3096.9 |
| 10° | 3191.3 | 3186.2 | 3158.2 | 3136.4 | 3122.4 | 3100.7 | 3081.6 | 3071.3 | 3075.2 | 3081.6 | 3081.6 |
| 12.5° | 3264.1 | 3250.1 | 3214.3 | 3185.0 | 3150.5 | 3109.6 | 3070.1 | 3049.6 | 3048.4 | 3054.8 | 3052.2 |
| 15° | 3342.0 | 3326.7 | 3276.9 | 3223.3 | 3163.3 | 3103.3 | 3056.0 | 3026.7 | 3003.7 | 2997.3 | 3011.3 |
| 17.5° | 3432.6 | 3400.7 | 3331.8 | 3257.7 | 3168.4 | 3090.5 | 3016.5 | 2956.5 | 2915.6 | 2904.1 | 2907.9 |
| 20° | 3542.4 | 3500.3 | 3407.1 | 3290.9 | 3164.5 | 3044.5 | 2929.7 | 2849.2 | 2782.8 | 2762.4 | 2765.0 |
| 22.5° | 3694.3 | 3621.5 | 3484.9 | 3307.5 | 3132.6 | 2957.7 | 2798.2 | 2693.5 | 2613.1 | 2581.2 | 2600.3 |
| 25° | 3866.6 | 3787.5 | 3559.0 | 3303.7 | 3049.6 | 2818.6 | 2642.4 | 2505.8 | 2433.1 | 2385.8 | 2396.1 |
| 27.5° | 4104.1 | 3963.6 | 3638.1 | 3269.2 | 2930.9 | 2648.8 | 2444.6 | 2315.6 | 2249.3 | 2225.0 | 2236.5 |
| 30° | 4407.9 | 4192.1 | 3723.7 | 3176.0 | 2743.3 | 2434.4 | 2245.4 | 2161.2 | 2121.6 | 2091.0 | 2101.2 |
| 32.5° | 4627.4 | 4353.0 | 3742.8 | 3019.0 | 2540.3 | 2239.0 | 2110.1 | 2047.6 | 2004.2 | 1974.8 | 1981.2 |
| 35° | 4784.5 | 4489.6 | 3733.9 | 2826.3 | 2328.4 | 2078.2 | 2002.9 | 1951.8 | 1881.6 | 1817.8 | 1806.3 |
| 37.5° | 4995.1 | 4660.6 | 3668.8 | 2615.6 | 2119.1 | 1969.7 | 1916.1 | 1821.6 | 1720.8 | 1635.2 | 1631.4 |
| 40° | 5318.1 | 4861.1 | 3529.6 | 2368.0 | 1940.3 | 1889.3 | 1824.2 | 1701.6 | 1593.1 | 1524.2 | 1519.1 |
| 42.5° | 5651.2 | 5046.1 | 3340.7 | 2107.6 | 1793.5 | 1805.0 | 1725.9 | 1604.6 | 1538.2 | 1493.5 | 1488.4 |
| 45° | 6058.4 | 5246.6 | 3136.4 | 1881.6 | 1685.0 | 1725.9 | 1640.3 | 1570.1 | 1530.6 | 1501.2 | 1493.5 |
| 47.5° | 6498.8 | 5452.1 | 2906.7 | 1678.6 | 1593.1 | 1653.1 | 1604.6 | 1572.7 | 1551.0 | 1530.6 | 1521.6 |
| 50° | 6973.7 | 5681.9 | 2690.9 | 1515.2 | 1510.1 | 1577.8 | 1600.8 | 1589.3 | 1576.5 | 1570.1 | 1562.5 |
| 52.5° | 7494.5 | 5916.7 | 2509.7 | 1400.4 | 1437.4 | 1524.2 | 1602.1 | 1611.0 | 1611.0 | 1607.2 | 1602.1 |
| 55° | 7846.9 | 6080.1 | 2325.8 | 1307.2 | 1363.3 | 1480.8 | 1599.5 | 1634.0 | 1646.7 | 1641.6 | 1636.5 |
| 57.5° | 8107.3 | 6169.5 | 2094.8 | 1226.8 | 1300.8 | 1438.7 | 1585.5 | 1636.5 | 1649.3 | 1655.7 | 1653.1 |
| 60° | 8160.9 | 6086.5 | 1792.3 | 1142.5 | 1233.1 | 1377.4 | 1534.4 | 1598.2 | 1614.8 | 1654.4 | 1658.2 |
| 62.5° | 7919.6 | 5831.2 | 1491.0 | 1059.5 | 1150.2 | 1284.2 | 1465.5 | 1554.8 | 1588.0 | 1649.3 | 1655.7 |
| 64° | 7623.5 | 5545.3 | 1323.8 | 1007.2 | 1096.5 | 1231.9 | 1431.0 | 1543.3 | 1586.7 | 1668.4 | 1673.5 |
| 65° | 7406.5 | 5337.2 | 1219.1 | 974.0 | 1062.1 | 1197.4 | 1411.8 | 1547.2 | 1598.2 | 1697.8 | 1705.5 |
| 67.5° | 6607.4 | 4621.1 | 1008.5 | 896.1 | 980.4 | 1138.7 | 1415.7 | 1579.1 | 1595.7 | 1709.3 | 1708.0 |
| 70° | 5467.4 | 3679.0 | 845.1 | 824.6 | 901.2 | 1091.4 | 1400.4 | 1528.0 | 1529.3 | 1604.6 | 1586.7 |
| 72.5° | 4093.9 | 2719.0 | 732.7 | 750.6 | 813.2 | 979.1 | 1322.5 | 1459.1 | 1437.4 | 1447.6 | 1429.7 |
| 75° | 2812.2 | 1798.6 | 630.6 | 671.5 | 721.2 | 865.5 | 1212.7 | 1325.0 | 1290.6 | 1277.8 | 1265.0 |
| 77.5° | 1501.2 | 994.4 | 524.7 | 593.6 | 626.8 | 748.1 | 1058.2 | 1166.8 | 1131.0 | 1081.2 | 1064.6 |
| 80° | 607.6 | 468.5 | 422.5 | 491.5 | 510.6 | 602.5 | 880.8 | 948.5 | 921.7 | 834.9 | 806.8 |
| 82.5° | 305.1 | 280.8 | 331.9 | 386.8 | 388.1 | 430.2 | 654.9 | 718.7 | 658.7 | 552.7 | 528.5 |
| 85° | 159.6 | 164.7 | 228.5 | 271.9 | 240.0 | 232.3 | 393.2 | 435.3 | 399.6 | 347.2 | 312.8 |
| 87.5° | 57.4 | 66.4 | 120.0 | 118.7 | 84.3 | 44.7 | 86.8 | 42.1 | 23.0 | 14.0 | 17.9 |
| 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)