

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: P458854

Luminaire Tested: **GALN-SA3D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458854
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-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21333 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

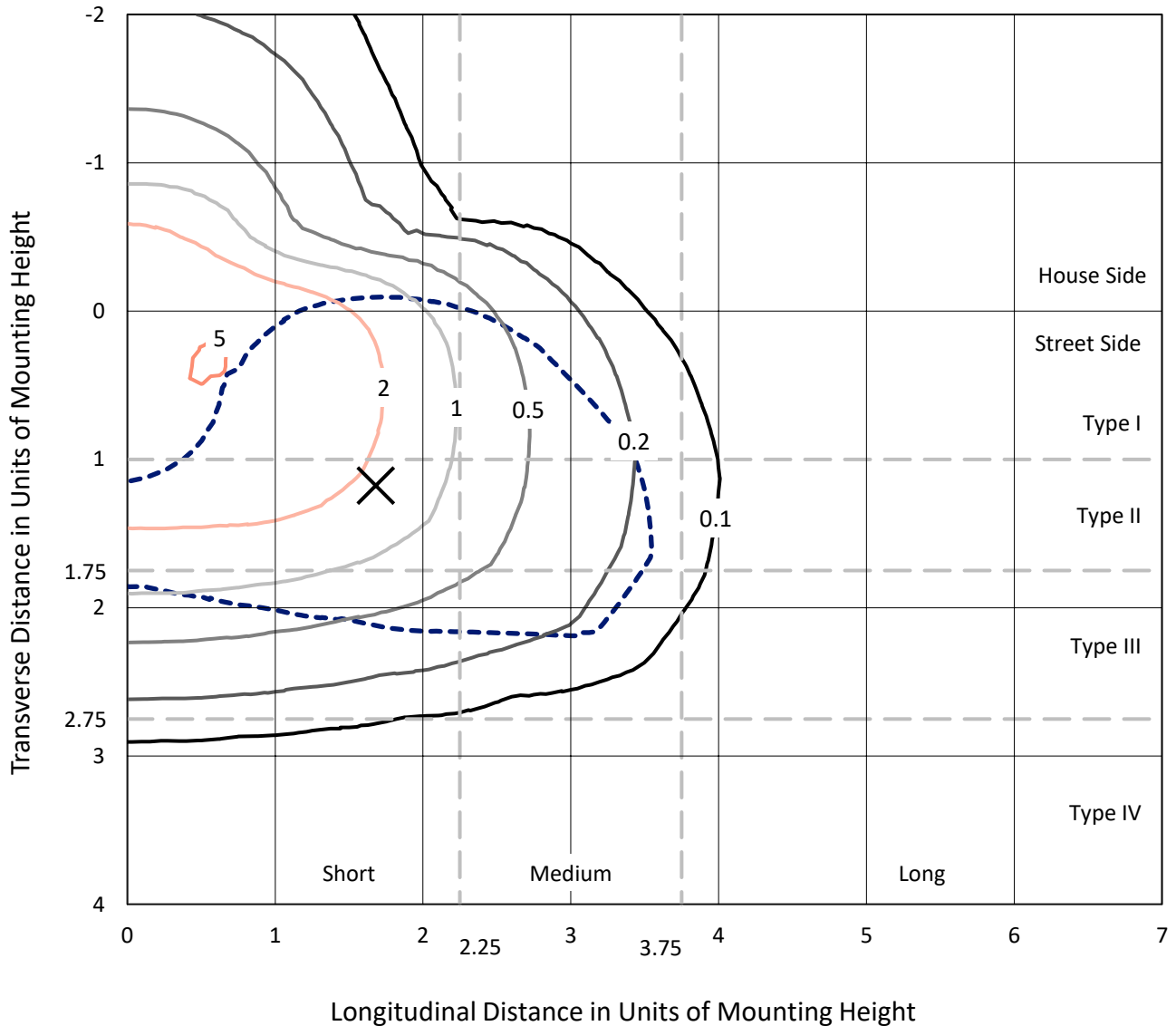
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

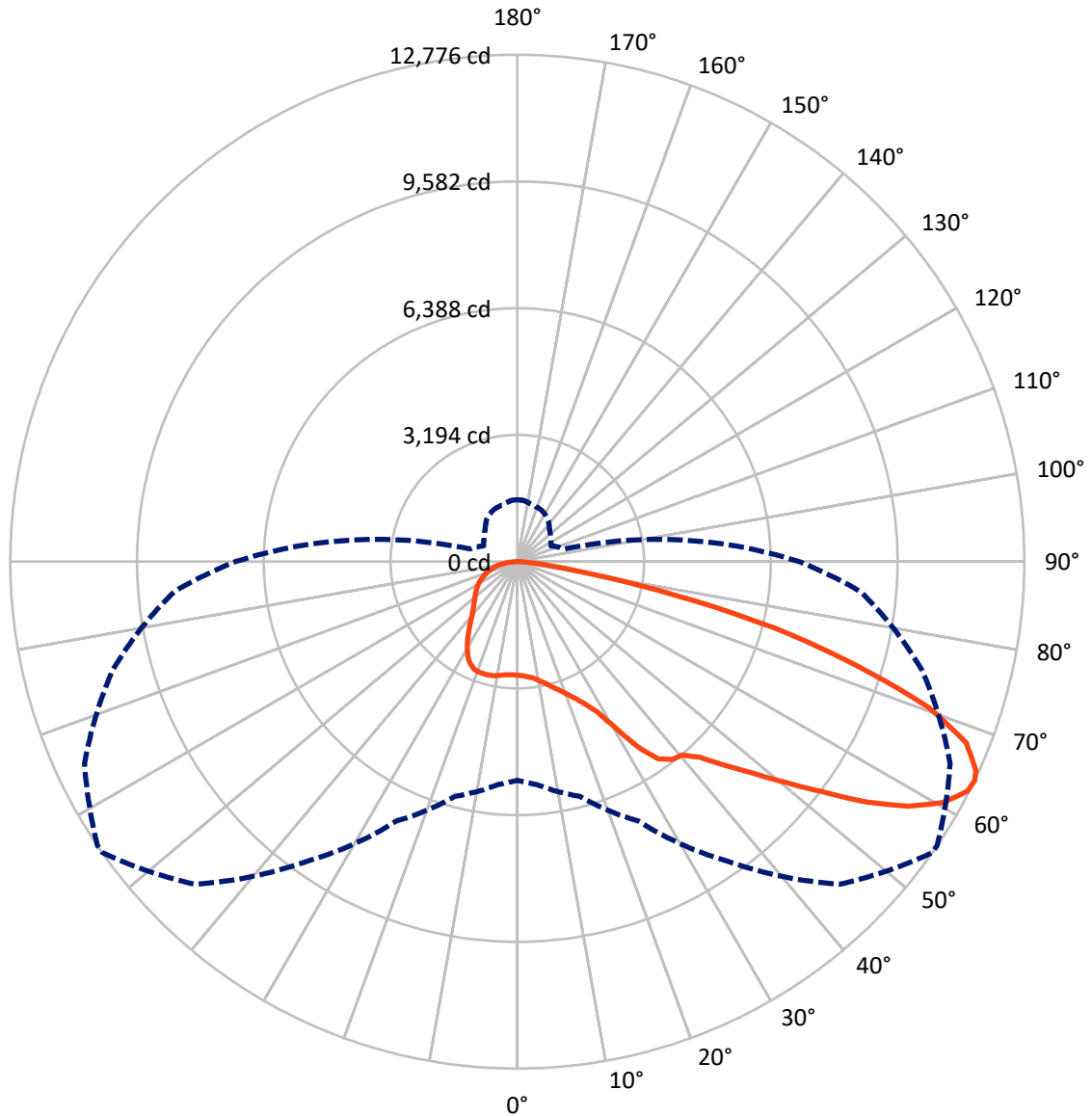
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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 | 5182.2 | 0.0 | 5182.2 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 16150.8 | 0.0 | 16150.8 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 21333.0 | 0.0 | 21333.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 278.4 | 1.3 |
| 10°-20° | 878.5 | 4.1 |
| 20°-30° | 1564.0 | 7.3 |
| 30°-40° | 2406.3 | 11.3 |
| 40°-50° | 3411.2 | 16.0 |
| 50°-60° | 4937.6 | 23.1 |
| 60°-70° | 5109.9 | 24.0 |
| 70°-80° | 2393.0 | 11.2 |
| 80°-90° | 354.3 | 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° | 21333.0 | 100.0 |
| 0°-180° | 21333.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P458854

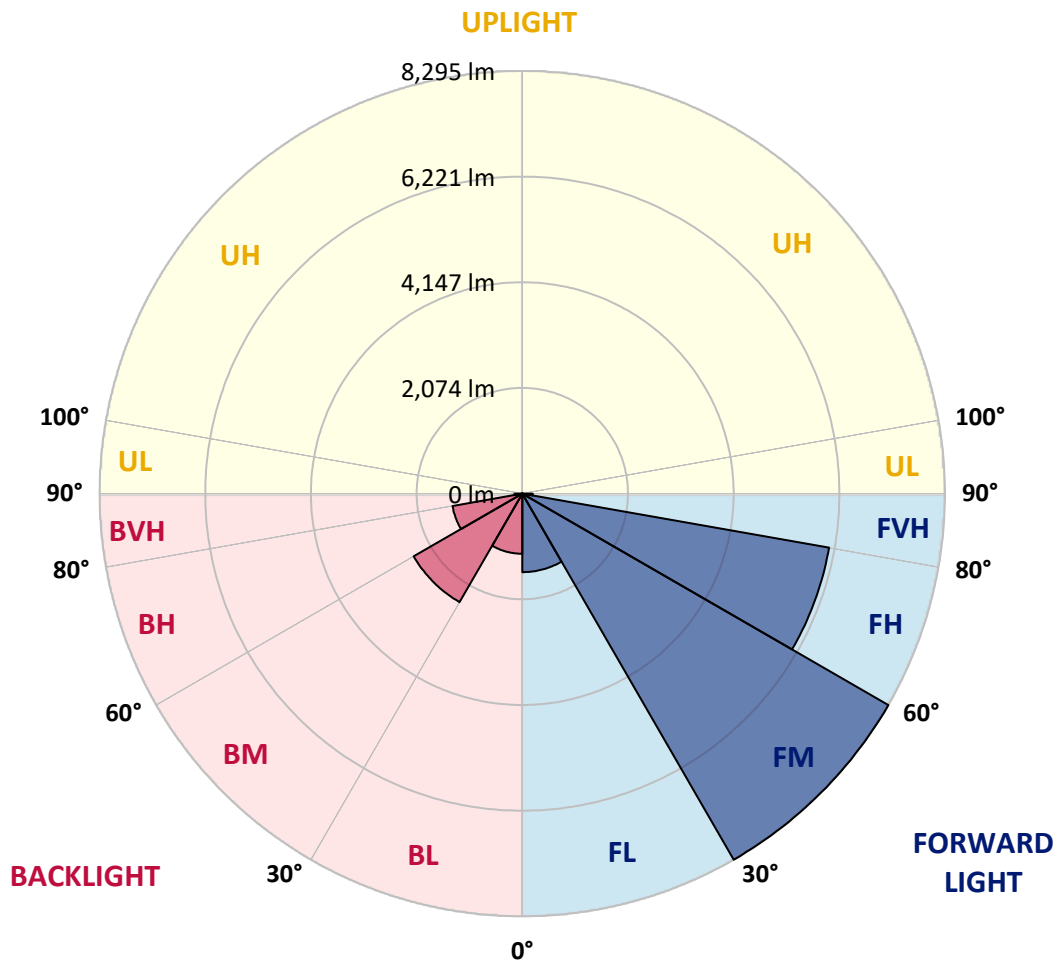
CATALOG NUMBER: GALN-SA3D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1540.6 | 7.2 | | | |
| FM (30°-60°) | 8294.9 | 38.9 | | | |
| FH (60°-80°) | 6112.5 | 28.7 | | | G3/7500 |
| FVH (80°-90°) | 202.8 | 1.0 | | | G2/225 |
| BL (0°-30°) | 1180.3 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 2460.2 | 11.5 | B2/2500 | | |
| BH (60°-80°) | 1390.3 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 151.4 | 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° | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 |
| 2.5° | 2894.4 | 2893.2 | 2896.7 | 2893.2 | 2895.5 | 2887.2 | 2883.6 | 2886.0 | 2882.5 | 2876.5 | 2865.8 |
| 5° | 2930.0 | 2928.8 | 2930.0 | 2925.3 | 2927.6 | 2922.9 | 2914.6 | 2916.9 | 2911.0 | 2897.9 | 2882.5 |
| 7.5° | 2990.7 | 2985.9 | 2985.9 | 2984.7 | 2980.0 | 2972.8 | 2966.9 | 2964.5 | 2958.6 | 2941.9 | 2918.1 |
| 10° | 3069.2 | 3069.2 | 3070.3 | 3060.8 | 3066.8 | 3053.7 | 3047.7 | 3046.6 | 3026.3 | 3004.9 | 2971.6 |
| 12.5° | 3172.6 | 3178.6 | 3175.0 | 3170.2 | 3167.9 | 3163.1 | 3142.9 | 3147.6 | 3125.0 | 3088.2 | 3047.7 |
| 15° | 3301.0 | 3310.5 | 3304.6 | 3302.2 | 3296.3 | 3278.4 | 3270.1 | 3266.6 | 3236.8 | 3183.3 | 3129.8 |
| 17.5° | 3471.1 | 3459.2 | 3454.4 | 3448.5 | 3423.5 | 3410.4 | 3396.2 | 3393.8 | 3367.6 | 3304.6 | 3221.4 |
| 20° | 3619.7 | 3636.4 | 3626.9 | 3620.9 | 3595.9 | 3571.0 | 3560.3 | 3556.7 | 3534.1 | 3465.1 | 3332.0 |
| 22.5° | 3796.9 | 3800.5 | 3804.0 | 3789.8 | 3777.9 | 3758.9 | 3739.8 | 3733.9 | 3725.6 | 3654.2 | 3491.3 |
| 25° | 3986.0 | 4000.2 | 3988.4 | 3974.1 | 3959.8 | 3958.6 | 3976.5 | 3974.1 | 3970.5 | 3901.5 | 3703.0 |
| 27.5° | 4294.0 | 4307.0 | 4310.6 | 4295.2 | 4240.5 | 4245.2 | 4285.6 | 4298.7 | 4353.4 | 4239.3 | 3975.3 |
| 30° | 4467.6 | 4480.7 | 4510.4 | 4568.7 | 4655.5 | 4731.6 | 4829.1 | 4858.8 | 4911.1 | 4695.9 | 4298.7 |
| 32.5° | 4574.6 | 4579.4 | 4632.9 | 4741.1 | 5001.5 | 5285.7 | 5550.9 | 5561.6 | 5594.9 | 5292.8 | 4594.8 |
| 35° | 4743.5 | 4747.0 | 4789.8 | 4908.7 | 5214.4 | 5687.6 | 6097.9 | 6111.0 | 6083.6 | 5478.3 | 4732.8 |
| 37.5° | 4951.6 | 4961.1 | 4988.4 | 5087.1 | 5452.2 | 6024.2 | 6325.0 | 6315.5 | 6072.9 | 5625.8 | 4976.5 |
| 40° | 5254.8 | 5254.8 | 5222.7 | 5355.9 | 5703.1 | 6216.8 | 6404.7 | 6388.0 | 6323.8 | 6052.7 | 5347.5 |
| 42.5° | 5522.3 | 5517.6 | 5593.7 | 5684.1 | 6017.0 | 6514.1 | 6738.8 | 6766.2 | 6872.0 | 6589.0 | 5769.7 |
| 45° | 5870.8 | 5892.2 | 5935.0 | 6099.1 | 6550.9 | 7021.8 | 7312.0 | 7338.1 | 7488.0 | 7220.4 | 6263.2 |
| 47.5° | 6222.7 | 6229.9 | 6364.2 | 6583.0 | 7212.1 | 7710.3 | 7948.2 | 7991.0 | 8127.7 | 7958.9 | 6794.7 |
| 50° | 6472.5 | 6540.2 | 6755.5 | 7100.3 | 7893.5 | 8549.9 | 8735.4 | 8786.5 | 9027.9 | 8762.7 | 7414.2 |
| 52.5° | 6736.4 | 6803.0 | 7065.8 | 7591.4 | 8675.9 | 9408.4 | 9636.7 | 9671.2 | 9922.1 | 9576.1 | 8048.1 |
| 55° | 6962.4 | 7024.2 | 7322.7 | 8026.7 | 9299.0 | 10284.8 | 10698.6 | 10658.2 | 10778.3 | 10202.8 | 8536.8 |
| 57.5° | 6999.2 | 7049.2 | 7425.0 | 8304.9 | 9767.5 | 11036.3 | 11629.7 | 11653.5 | 11514.4 | 10671.3 | 8939.9 |
| 60° | 6713.8 | 6816.1 | 7247.8 | 8275.2 | 9978.0 | 11559.6 | 12324.2 | 12340.8 | 11946.0 | 10911.5 | 9100.4 |
| 62.5° | 6208.5 | 6197.8 | 6719.8 | 7797.1 | 9683.1 | 11678.5 | 12733.2 | 12715.4 | 12114.9 | 10796.1 | 8944.7 |
| 64° | 5510.4 | 5638.9 | 6126.4 | 7209.7 | 9207.5 | 11495.4 | 12776.1 | 12766.5 | 12034.0 | 10555.9 | 8679.5 |
| 65° | 5084.7 | 5077.6 | 5559.2 | 6729.3 | 8734.2 | 11219.5 | 12699.9 | 12686.9 | 11865.2 | 10340.7 | 8473.8 |
| 67.5° | 3670.9 | 3687.5 | 4163.2 | 5192.9 | 7100.3 | 10140.9 | 12204.1 | 12155.3 | 11199.3 | 9627.2 | 7691.3 |
| 70° | 2223.7 | 2233.2 | 2606.6 | 3444.9 | 5096.6 | 8197.9 | 11000.7 | 11003.1 | 10180.2 | 8561.8 | 6546.2 |
| 72.5° | 1171.3 | 1196.3 | 1346.1 | 1956.1 | 3095.3 | 5751.8 | 8924.4 | 9136.1 | 8740.1 | 7307.2 | 5171.5 |
| 75° | 651.6 | 655.2 | 761.0 | 964.4 | 1579.2 | 3219.0 | 6707.9 | 6768.5 | 6919.6 | 5881.5 | 3824.3 |
| 77.5° | 497.1 | 504.2 | 537.5 | 623.1 | 859.7 | 1492.4 | 4059.7 | 4364.1 | 4876.6 | 4146.5 | 2182.1 |
| 80° | 403.1 | 410.3 | 438.8 | 489.9 | 572.0 | 707.5 | 1886.0 | 2050.1 | 2610.1 | 1840.8 | 851.4 |
| 82.5° | 313.9 | 309.2 | 346.0 | 379.3 | 416.2 | 418.6 | 774.1 | 856.2 | 1063.1 | 792.0 | 368.6 |
| 85° | 233.1 | 233.1 | 262.8 | 255.7 | 268.7 | 245.0 | 341.3 | 377.0 | 425.7 | 336.5 | 171.2 |
| 87.5° | 92.8 | 102.3 | 172.4 | 154.6 | 120.1 | 96.3 | 126.0 | 133.2 | 147.5 | 132.0 | 71.3 |
| 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-SA3D-735-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 | 2862.2 |
| 2.5° | 2867.0 | 2870.6 | 2862.2 | 2856.3 | 2853.9 | 2850.4 | 2846.8 | 2848.0 | 2852.7 | 2857.5 | 2856.3 |
| 5° | 2881.3 | 2882.5 | 2868.2 | 2861.1 | 2856.3 | 2851.5 | 2851.5 | 2855.1 | 2864.6 | 2871.8 | 2871.8 |
| 7.5° | 2916.9 | 2916.9 | 2896.7 | 2883.6 | 2876.5 | 2868.2 | 2865.8 | 2867.0 | 2874.1 | 2883.6 | 2884.8 |
| 10° | 2972.8 | 2968.1 | 2941.9 | 2921.7 | 2908.6 | 2888.4 | 2870.6 | 2861.1 | 2864.6 | 2870.6 | 2870.6 |
| 12.5° | 3040.6 | 3027.5 | 2994.2 | 2966.9 | 2934.8 | 2896.7 | 2859.9 | 2840.8 | 2839.7 | 2845.6 | 2843.2 |
| 15° | 3113.2 | 3098.9 | 3052.5 | 3002.6 | 2946.7 | 2890.8 | 2846.8 | 2819.4 | 2798.0 | 2792.1 | 2805.2 |
| 17.5° | 3197.6 | 3167.9 | 3103.6 | 3034.7 | 2951.4 | 2878.9 | 2809.9 | 2754.0 | 2716.0 | 2705.3 | 2708.8 |
| 20° | 3299.8 | 3260.6 | 3173.8 | 3065.6 | 2947.9 | 2836.1 | 2729.1 | 2654.1 | 2592.3 | 2573.3 | 2575.7 |
| 22.5° | 3441.4 | 3373.6 | 3246.3 | 3081.0 | 2918.1 | 2755.2 | 2606.6 | 2509.1 | 2434.2 | 2404.4 | 2422.3 |
| 25° | 3601.9 | 3528.2 | 3315.3 | 3077.5 | 2840.8 | 2625.6 | 2461.5 | 2334.3 | 2266.5 | 2222.5 | 2232.0 |
| 27.5° | 3823.1 | 3692.3 | 3389.0 | 3045.4 | 2730.3 | 2467.5 | 2277.2 | 2157.1 | 2095.3 | 2072.7 | 2083.4 |
| 30° | 4106.1 | 3905.1 | 3468.7 | 2958.6 | 2555.4 | 2267.7 | 2091.7 | 2013.2 | 1976.3 | 1947.8 | 1957.3 |
| 32.5° | 4310.6 | 4054.9 | 3486.5 | 2812.3 | 2366.4 | 2085.7 | 1965.6 | 1907.4 | 1866.9 | 1839.6 | 1845.5 |
| 35° | 4456.9 | 4182.2 | 3478.2 | 2632.7 | 2169.0 | 1935.9 | 1865.8 | 1818.2 | 1752.8 | 1693.3 | 1682.6 |
| 37.5° | 4653.1 | 4341.5 | 3417.6 | 2436.5 | 1974.0 | 1834.8 | 1784.9 | 1696.9 | 1603.0 | 1523.3 | 1519.7 |
| 40° | 4953.9 | 4528.2 | 3288.0 | 2205.8 | 1807.5 | 1759.9 | 1699.3 | 1585.1 | 1484.0 | 1419.8 | 1415.1 |
| 42.5° | 5264.3 | 4700.6 | 3112.0 | 1963.3 | 1670.7 | 1681.4 | 1607.7 | 1494.7 | 1432.9 | 1391.3 | 1386.5 |
| 45° | 5643.6 | 4887.3 | 2921.7 | 1752.8 | 1569.7 | 1607.7 | 1528.0 | 1462.6 | 1425.8 | 1398.4 | 1391.3 |
| 47.5° | 6053.9 | 5078.8 | 2707.7 | 1563.7 | 1484.0 | 1539.9 | 1494.7 | 1465.0 | 1444.8 | 1425.8 | 1417.4 |
| 50° | 6496.2 | 5292.8 | 2506.7 | 1411.5 | 1406.7 | 1469.8 | 1491.2 | 1480.5 | 1468.6 | 1462.6 | 1455.5 |
| 52.5° | 6981.4 | 5511.6 | 2337.8 | 1304.5 | 1339.0 | 1419.8 | 1492.4 | 1500.7 | 1500.7 | 1497.1 | 1492.4 |
| 55° | 7309.6 | 5663.8 | 2166.6 | 1217.7 | 1270.0 | 1379.4 | 1490.0 | 1522.1 | 1534.0 | 1529.2 | 1524.5 |
| 57.5° | 7552.2 | 5747.1 | 1951.4 | 1142.8 | 1211.7 | 1340.2 | 1476.9 | 1524.5 | 1536.4 | 1542.3 | 1539.9 |
| 60° | 7602.1 | 5669.8 | 1669.5 | 1064.3 | 1148.7 | 1283.1 | 1429.3 | 1488.8 | 1504.3 | 1541.1 | 1544.7 |
| 62.5° | 7377.4 | 5432.0 | 1388.9 | 987.0 | 1071.4 | 1196.3 | 1365.1 | 1448.4 | 1479.3 | 1536.4 | 1542.3 |
| 64° | 7101.5 | 5165.6 | 1233.1 | 938.2 | 1021.5 | 1147.5 | 1333.0 | 1437.7 | 1478.1 | 1554.2 | 1559.0 |
| 65° | 6899.4 | 4971.8 | 1135.6 | 907.3 | 989.4 | 1115.4 | 1315.2 | 1441.2 | 1488.8 | 1581.5 | 1588.7 |
| 67.5° | 6155.0 | 4304.7 | 939.4 | 834.8 | 913.3 | 1060.7 | 1318.7 | 1471.0 | 1486.4 | 1592.2 | 1591.1 |
| 70° | 5093.1 | 3427.1 | 787.2 | 768.2 | 839.5 | 1016.7 | 1304.5 | 1423.4 | 1424.6 | 1494.7 | 1478.1 |
| 72.5° | 3813.6 | 2532.9 | 682.6 | 699.2 | 757.5 | 912.1 | 1231.9 | 1359.2 | 1339.0 | 1348.5 | 1331.8 |
| 75° | 2619.7 | 1675.5 | 587.4 | 625.5 | 671.9 | 806.2 | 1129.7 | 1234.3 | 1202.2 | 1190.3 | 1178.4 |
| 77.5° | 1398.4 | 926.3 | 488.7 | 552.9 | 583.9 | 696.8 | 985.8 | 1086.9 | 1053.6 | 1007.2 | 991.7 |
| 80° | 566.0 | 436.4 | 393.6 | 457.8 | 475.7 | 561.3 | 820.5 | 883.5 | 858.6 | 777.7 | 751.5 |
| 82.5° | 284.2 | 261.6 | 309.2 | 360.3 | 361.5 | 400.7 | 610.0 | 669.5 | 613.6 | 514.9 | 492.3 |
| 85° | 148.6 | 153.4 | 212.9 | 253.3 | 223.6 | 216.4 | 366.3 | 405.5 | 372.2 | 323.4 | 291.3 |
| 87.5° | 53.5 | 61.8 | 111.8 | 110.6 | 78.5 | 41.6 | 80.9 | 39.2 | 21.4 | 13.1 | 16.6 |
| 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)