

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: P522862

Luminaire Tested: **GALN-SA7D-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53921 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

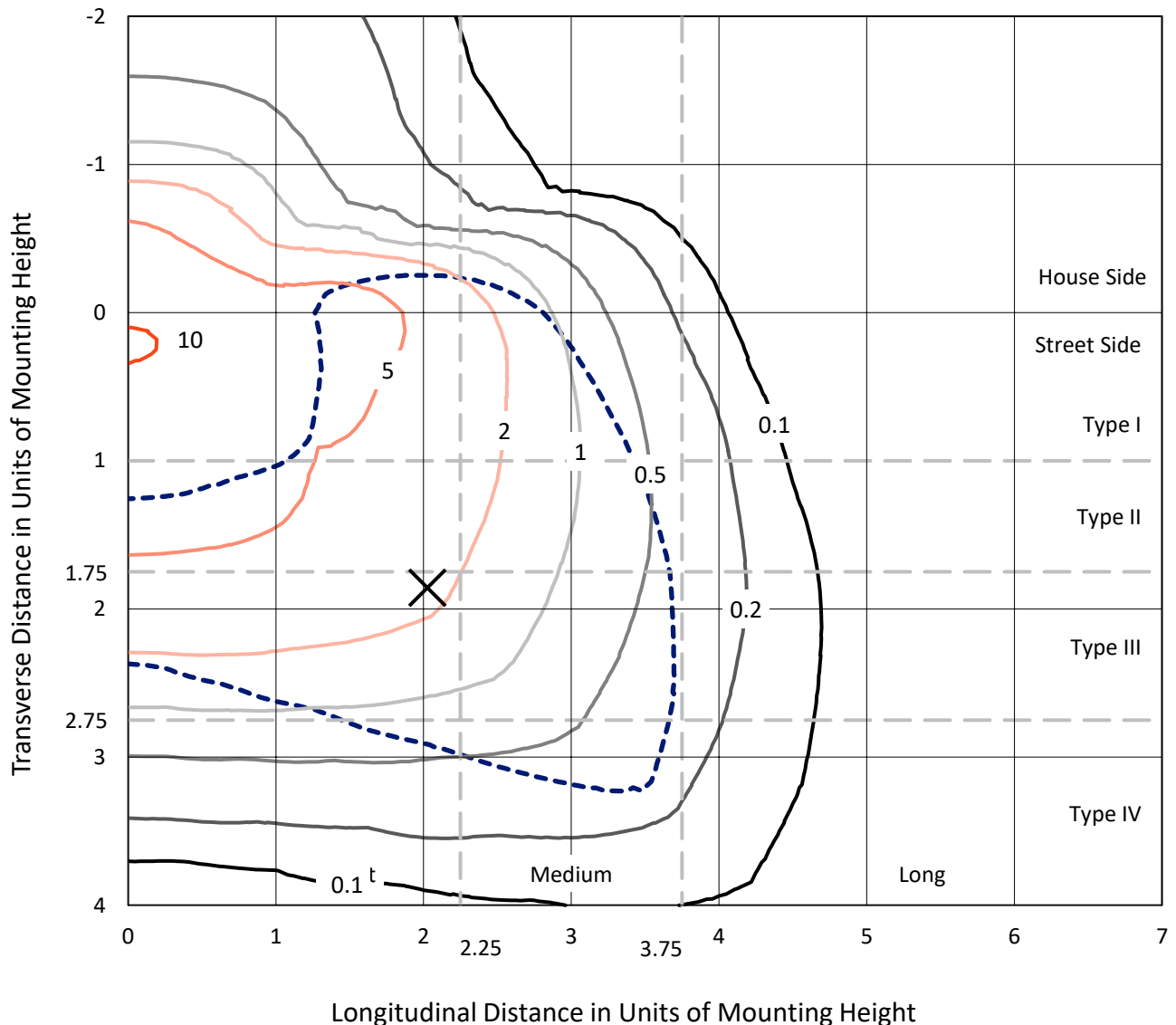
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

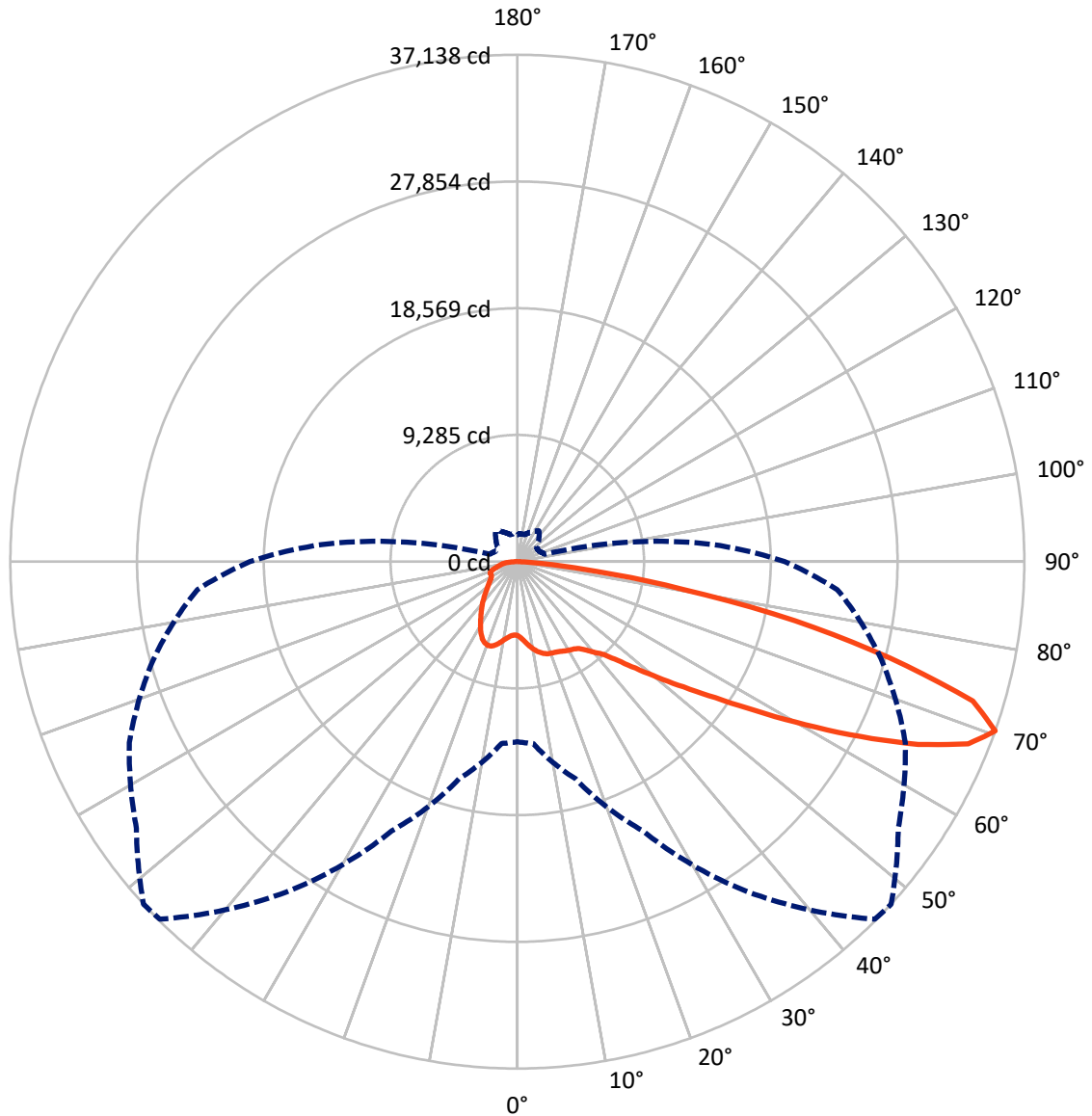
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12208.7 | 0.0 | 12208.7 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 41712.2 | 0.0 | 41712.2 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 53921.0 | 0.0 | 53921.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.0 | 1.0 |
| 10°-20° | 1865.3 | 3.5 |
| 20°-30° | 3102.0 | 5.8 |
| 30°-40° | 4396.7 | 8.2 |
| 40°-50° | 6490.4 | 12.0 |
| 50°-60° | 11241.7 | 20.8 |
| 60°-70° | 15879.2 | 29.4 |
| 70°-80° | 9128.2 | 16.9 |
| 80°-90° | 1259.5 | 2.3 |
| 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° | 53921.0 | 100.0 |
| 0°-180° | 53921.0 | 100.0 |

Coefficient of Utilization



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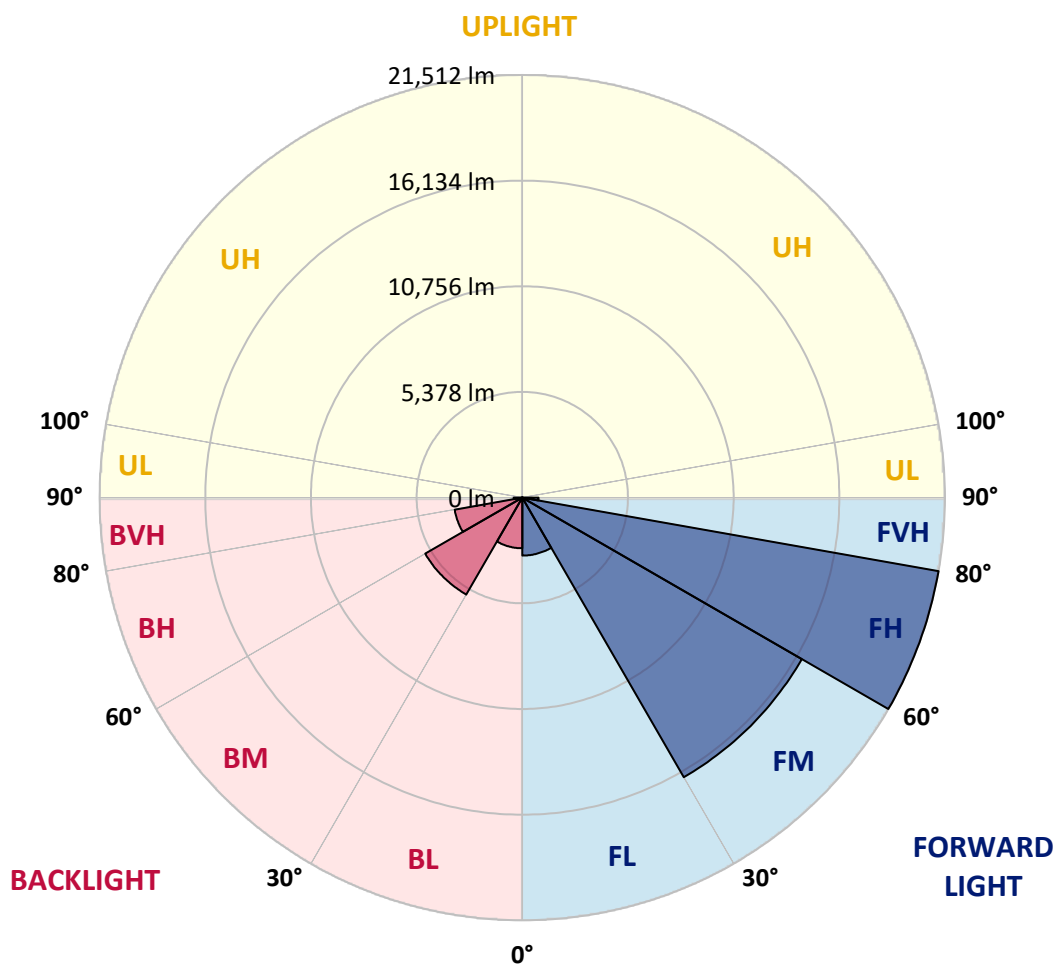
CATALOG NUMBER: GALN-SA7D-760-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2948.6 | 5.5 | | | |
| FM | (30°-60°) | 16428.7 | 30.5 | | | |
| FH | (60°-80°) | 21512.2 | 39.9 | | | G5 |
| FVH | (80°-90°) | 822.7 | 1.5 | | | G5 |
| BL | (0°-30°) | 2576.7 | 4.8 | B4/5000 | | |
| BM | (30°-60°) | 5700.1 | 10.6 | B4/8500 | | |
| BH | (60°-80°) | 3495.2 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 436.7 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 |
| 2.5° | 5762.2 | 5742.0 | 5739.1 | 5695.8 | 5672.7 | 5629.4 | 5612.1 | 5571.7 | 5522.7 | 5473.6 | 5427.4 |
| 5° | 6215.2 | 6215.2 | 6195.0 | 6134.4 | 6039.2 | 5941.0 | 5897.8 | 5819.9 | 5681.4 | 5568.8 | 5473.6 |
| 7.5° | 6679.7 | 6685.5 | 6645.1 | 6555.6 | 6420.0 | 6261.3 | 6220.9 | 6105.5 | 5909.3 | 5744.8 | 5603.5 |
| 10° | 7080.8 | 7080.8 | 7026.0 | 6904.8 | 6734.5 | 6561.4 | 6521.0 | 6391.2 | 6171.9 | 5967.0 | 5782.4 |
| 12.5° | 7386.6 | 7386.6 | 7314.5 | 7155.8 | 6971.1 | 6815.3 | 6769.2 | 6645.1 | 6440.2 | 6212.3 | 5978.6 |
| 15° | 7585.7 | 7571.3 | 7490.5 | 7311.6 | 7132.7 | 6997.1 | 6965.4 | 6861.5 | 6673.9 | 6443.1 | 6180.5 |
| 17.5° | 7594.4 | 7588.6 | 7510.7 | 7360.7 | 7204.9 | 7112.5 | 7092.3 | 7023.1 | 6875.9 | 6656.6 | 6379.6 |
| 20° | 7427.0 | 7438.6 | 7386.6 | 7279.9 | 7204.9 | 7164.5 | 7155.8 | 7132.7 | 7028.8 | 6824.0 | 6547.0 |
| 22.5° | 7248.1 | 7268.3 | 7219.3 | 7161.6 | 7155.8 | 7196.2 | 7202.0 | 7207.7 | 7141.4 | 6942.3 | 6688.4 |
| 25° | 7204.9 | 7219.3 | 7170.2 | 7118.3 | 7150.0 | 7256.8 | 7279.9 | 7303.0 | 7251.0 | 7083.7 | 6855.7 |
| 27.5° | 7424.1 | 7412.6 | 7317.4 | 7204.9 | 7225.1 | 7369.3 | 7401.1 | 7427.0 | 7401.1 | 7256.8 | 7063.5 |
| 30° | 8044.5 | 8007.0 | 7816.6 | 7487.6 | 7383.8 | 7484.7 | 7516.5 | 7588.6 | 7588.6 | 7481.9 | 7288.5 |
| 32.5° | 9083.3 | 9011.1 | 8662.0 | 8015.7 | 7655.0 | 7594.4 | 7626.1 | 7744.4 | 7805.0 | 7721.3 | 7510.7 |
| 35° | 10344.2 | 10269.2 | 9770.0 | 8901.5 | 8151.3 | 7813.7 | 7805.0 | 7937.7 | 8099.3 | 7911.8 | 7637.7 |
| 37.5° | 11610.9 | 11533.0 | 10932.8 | 9957.5 | 8875.5 | 8275.3 | 8223.4 | 8269.6 | 8338.8 | 7995.5 | 7813.7 |
| 40° | 12877.6 | 12785.2 | 12260.1 | 11137.7 | 9761.3 | 8887.0 | 8751.4 | 8543.7 | 8514.8 | 8269.6 | 8154.2 |
| 42.5° | 14132.7 | 14049.0 | 13783.6 | 12462.1 | 10823.2 | 9484.3 | 9276.6 | 8918.8 | 9028.4 | 8881.3 | 8780.3 |
| 45° | 15399.4 | 15405.2 | 15122.4 | 13948.0 | 12104.3 | 10586.6 | 10306.7 | 9746.9 | 10006.6 | 9951.8 | 10009.5 |
| 47.5° | 16521.8 | 16507.4 | 16406.4 | 15390.7 | 13694.1 | 12006.2 | 11645.5 | 10996.3 | 11440.6 | 11642.6 | 12084.1 |
| 50° | 17609.6 | 17601.0 | 17606.7 | 17026.8 | 15540.8 | 13694.1 | 13295.9 | 12615.0 | 13616.2 | 14317.4 | 15108.0 |
| 52.5° | 19167.7 | 19216.8 | 18867.7 | 18714.7 | 17785.6 | 15687.9 | 15249.4 | 14545.3 | 16187.1 | 17292.2 | 18835.9 |
| 55° | 20731.6 | 20691.2 | 20417.1 | 20575.8 | 20134.4 | 18048.2 | 17589.4 | 17029.7 | 19049.4 | 20258.4 | 22578.3 |
| 57.5° | 21652.1 | 21666.5 | 21946.4 | 22722.6 | 23034.2 | 20991.3 | 20575.8 | 20143.0 | 22266.7 | 23123.6 | 25908.1 |
| 60° | 22480.2 | 22546.6 | 23351.6 | 24817.4 | 25662.8 | 24606.7 | 24237.4 | 23816.1 | 25218.4 | 25558.9 | 28799.2 |
| 62.5° | 22739.9 | 22944.7 | 24349.9 | 26542.8 | 28225.0 | 28686.7 | 28227.9 | 27298.8 | 28028.8 | 27896.1 | 30758.4 |
| 65° | 21444.3 | 21724.2 | 24243.2 | 27189.2 | 30513.2 | 32558.9 | 32267.5 | 30542.0 | 30423.7 | 29624.5 | 31078.7 |
| 67.5° | 18033.8 | 18313.7 | 21548.2 | 25833.0 | 31459.6 | 35911.7 | 35620.3 | 32908.0 | 31878.0 | 29786.0 | 28655.0 |
| 70° | 13195.0 | 13371.0 | 16464.1 | 21750.2 | 29558.1 | 37037.1 | 37138.0 | 34062.2 | 31358.6 | 27590.2 | 23527.6 |
| 72.5° | 7603.0 | 7992.6 | 10159.5 | 15301.3 | 24148.0 | 34192.0 | 34893.2 | 31661.5 | 28075.0 | 23016.9 | 16449.7 |
| 75° | 3269.2 | 3277.8 | 4697.4 | 8439.8 | 16354.5 | 27483.5 | 28161.6 | 26245.6 | 22047.4 | 15915.9 | 8783.2 |
| 77.5° | 1555.2 | 1584.1 | 2065.9 | 3768.3 | 9002.5 | 18988.8 | 20818.2 | 18541.6 | 14101.0 | 7646.3 | 3318.2 |
| 80° | 1009.9 | 1030.1 | 1263.8 | 1869.7 | 4414.7 | 11010.7 | 12286.1 | 10696.2 | 6220.9 | 2732.5 | 1431.2 |
| 82.5° | 611.7 | 617.5 | 845.4 | 1142.6 | 2429.5 | 4986.0 | 5877.6 | 4642.6 | 2654.6 | 1636.0 | 842.5 |
| 85° | 372.2 | 375.1 | 513.6 | 706.9 | 1474.4 | 1722.6 | 1768.8 | 1754.3 | 1558.1 | 1070.5 | 450.1 |
| 87.5° | 178.9 | 184.7 | 265.5 | 334.7 | 580.0 | 533.8 | 504.9 | 585.7 | 735.8 | 577.1 | 193.3 |
| 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-SA7D-760-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 | 5413.0 |
| 2.5° | 5407.2 | 5398.6 | 5378.4 | 5369.7 | 5364.0 | 5366.9 | 5364.0 | 5364.0 | 5366.9 | 5366.9 | 5366.9 |
| 5° | 5433.2 | 5418.8 | 5387.1 | 5387.1 | 5404.4 | 5444.8 | 5482.3 | 5511.1 | 5542.9 | 5540.0 | 5540.0 |
| 7.5° | 5545.7 | 5519.8 | 5482.3 | 5493.8 | 5537.1 | 5600.6 | 5666.9 | 5730.4 | 5793.9 | 5799.7 | 5796.8 |
| 10° | 5710.2 | 5684.2 | 5643.9 | 5658.3 | 5727.5 | 5822.7 | 5906.4 | 5998.8 | 6068.0 | 6088.2 | 6082.4 |
| 12.5° | 5897.8 | 5845.8 | 5811.2 | 5851.6 | 5961.2 | 6088.2 | 6169.0 | 6238.2 | 6287.3 | 6316.2 | 6304.6 |
| 15° | 6088.2 | 6039.2 | 5998.8 | 6082.4 | 6215.2 | 6333.5 | 6373.9 | 6385.4 | 6394.1 | 6422.9 | 6417.1 |
| 17.5° | 6272.9 | 6206.5 | 6192.1 | 6301.7 | 6428.7 | 6480.6 | 6457.5 | 6408.5 | 6371.0 | 6394.1 | 6391.2 |
| 20° | 6437.3 | 6385.4 | 6379.6 | 6489.3 | 6538.3 | 6489.3 | 6391.2 | 6304.6 | 6238.2 | 6244.0 | 6241.1 |
| 22.5° | 6593.2 | 6552.8 | 6558.5 | 6604.7 | 6526.8 | 6359.4 | 6197.8 | 6079.5 | 6007.4 | 6021.8 | 6030.5 |
| 25° | 6766.3 | 6725.9 | 6740.3 | 6665.3 | 6408.5 | 6117.1 | 5883.3 | 5782.4 | 5753.5 | 5782.4 | 5802.5 |
| 27.5° | 6991.3 | 6965.4 | 6956.7 | 6668.2 | 6197.8 | 5759.3 | 5493.8 | 5456.3 | 5482.3 | 5545.7 | 5577.5 |
| 30° | 7233.7 | 7233.7 | 7187.5 | 6619.1 | 5909.3 | 5329.3 | 5098.5 | 5104.3 | 5193.7 | 5283.2 | 5314.9 |
| 32.5° | 7467.4 | 7516.5 | 7372.2 | 6486.4 | 5537.1 | 4911.0 | 4734.9 | 4740.7 | 4818.6 | 4928.3 | 4957.1 |
| 35° | 7660.8 | 7802.1 | 7530.9 | 6244.0 | 5098.5 | 4558.9 | 4426.2 | 4348.3 | 4351.2 | 4434.9 | 4458.0 |
| 37.5° | 7926.2 | 8188.8 | 7623.2 | 5883.3 | 4631.1 | 4258.9 | 4108.8 | 3973.2 | 3883.8 | 3849.1 | 3849.1 |
| 40° | 8387.9 | 8774.5 | 7646.3 | 5349.5 | 4189.6 | 3973.2 | 3759.7 | 3598.1 | 3425.0 | 3269.2 | 3240.3 |
| 42.5° | 9169.8 | 9657.5 | 7600.2 | 4734.9 | 3791.4 | 3658.7 | 3450.9 | 3251.9 | 3012.4 | 2793.1 | 2775.8 |
| 45° | 10554.8 | 10805.8 | 7476.1 | 4097.3 | 3436.5 | 3355.7 | 3153.7 | 2937.3 | 2683.4 | 2487.2 | 2472.8 |
| 47.5° | 12773.7 | 12418.8 | 7311.6 | 3531.7 | 3113.4 | 3090.3 | 2934.5 | 2683.4 | 2429.5 | 2293.9 | 2279.5 |
| 50° | 16014.0 | 14957.9 | 7288.5 | 3122.0 | 2853.7 | 2865.2 | 2738.2 | 2507.4 | 2285.2 | 2172.7 | 2155.4 |
| 52.5° | 19915.1 | 18025.1 | 7441.5 | 2833.5 | 2625.7 | 2669.0 | 2605.5 | 2392.0 | 2195.8 | 2100.6 | 2083.3 |
| 55° | 23700.7 | 20783.6 | 7533.8 | 2608.4 | 2412.2 | 2493.0 | 2501.6 | 2322.8 | 2143.9 | 2048.6 | 2037.1 |
| 57.5° | 26773.7 | 22861.1 | 7124.1 | 2403.5 | 2227.5 | 2351.6 | 2415.1 | 2282.4 | 2117.9 | 2045.8 | 2034.2 |
| 60° | 28911.8 | 23842.1 | 5958.4 | 2221.8 | 2091.9 | 2239.1 | 2383.3 | 2285.2 | 2181.4 | 2190.0 | 2195.8 |
| 62.5° | 29592.7 | 23406.4 | 4469.5 | 2086.1 | 1999.6 | 2201.6 | 2435.3 | 2403.5 | 2296.8 | 2363.1 | 2374.7 |
| 65° | 28464.5 | 21605.9 | 3240.3 | 1979.4 | 1918.8 | 2227.5 | 2591.1 | 2490.1 | 2256.4 | 2305.4 | 2305.4 |
| 67.5° | 24687.5 | 18613.7 | 2521.8 | 1881.3 | 1826.5 | 2276.6 | 2746.9 | 2481.4 | 2161.2 | 2218.9 | 2166.9 |
| 70° | 19583.2 | 14398.2 | 2100.6 | 1771.6 | 1728.4 | 2204.4 | 2761.3 | 2392.0 | 2048.6 | 2060.2 | 1962.1 |
| 72.5° | 12995.9 | 9467.0 | 1806.3 | 1667.8 | 1578.3 | 1982.3 | 2643.0 | 2276.6 | 1939.0 | 1872.6 | 1774.5 |
| 75° | 6368.1 | 4720.5 | 1575.4 | 1537.9 | 1382.1 | 1725.5 | 2481.4 | 2166.9 | 1820.7 | 1716.8 | 1662.0 |
| 77.5° | 2467.0 | 2008.2 | 1344.6 | 1373.5 | 1203.2 | 1520.6 | 2267.9 | 2011.1 | 1664.9 | 1523.5 | 1480.2 |
| 80° | 1197.4 | 1139.7 | 1102.2 | 1145.5 | 989.7 | 1295.5 | 2071.7 | 1875.5 | 1520.6 | 1364.8 | 1301.3 |
| 82.5° | 744.4 | 704.0 | 845.4 | 891.6 | 761.7 | 1183.0 | 1965.0 | 1760.1 | 1338.8 | 1131.1 | 1079.1 |
| 85° | 378.0 | 404.0 | 565.5 | 608.8 | 545.3 | 940.6 | 1618.7 | 1321.5 | 966.6 | 802.1 | 807.9 |
| 87.5° | 144.3 | 193.3 | 297.2 | 320.3 | 291.4 | 496.3 | 891.6 | 770.4 | 620.4 | 421.3 | 389.5 |
| 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)