

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: P458380

Luminaire Tested: **GALN-SA9D-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50364 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

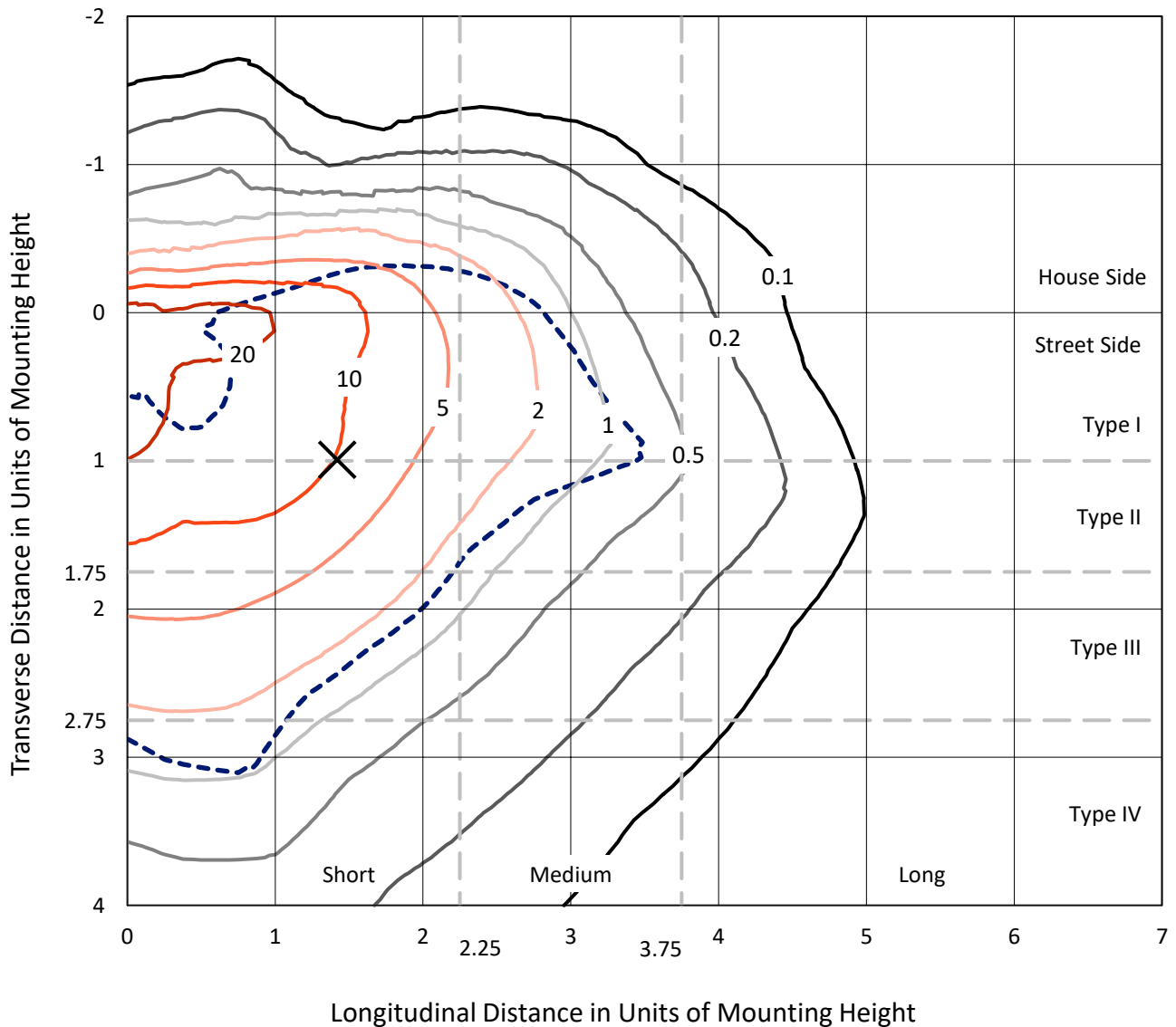
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458380
 CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

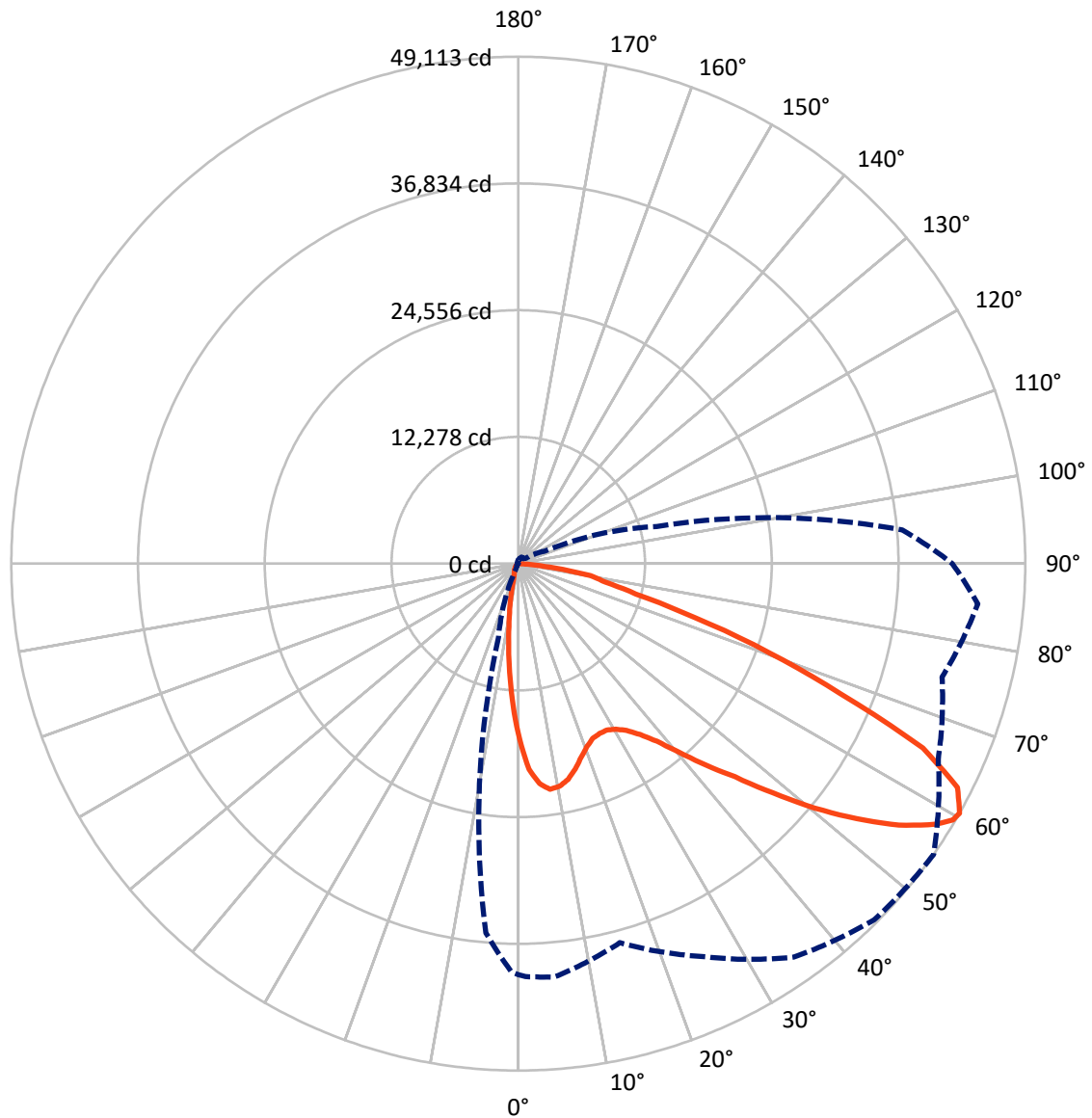
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.2 fc
 Type III - Short - N/A

REPORT NUMBER: P458380
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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7474.5 | 0.0 | 7474.5 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 42889.5 | 0.0 | 42889.5 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 50364.0 | 0.0 | 50364.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1262.8 | 2.5 |
| 10°-20° | 2486.8 | 4.9 |
| 20°-30° | 3680.9 | 7.3 |
| 30°-40° | 5486.7 | 10.9 |
| 40°-50° | 8035.3 | 16.0 |
| 50°-60° | 11600.5 | 23.0 |
| 60°-70° | 12203.2 | 24.2 |
| 70°-80° | 5019.9 | 10.0 |
| 80°-90° | 587.9 | 1.2 |
| 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° | 50364.0 | 100.0 |
| 0°-180° | 50364.0 | 100.0 |

Coefficient of Utilization



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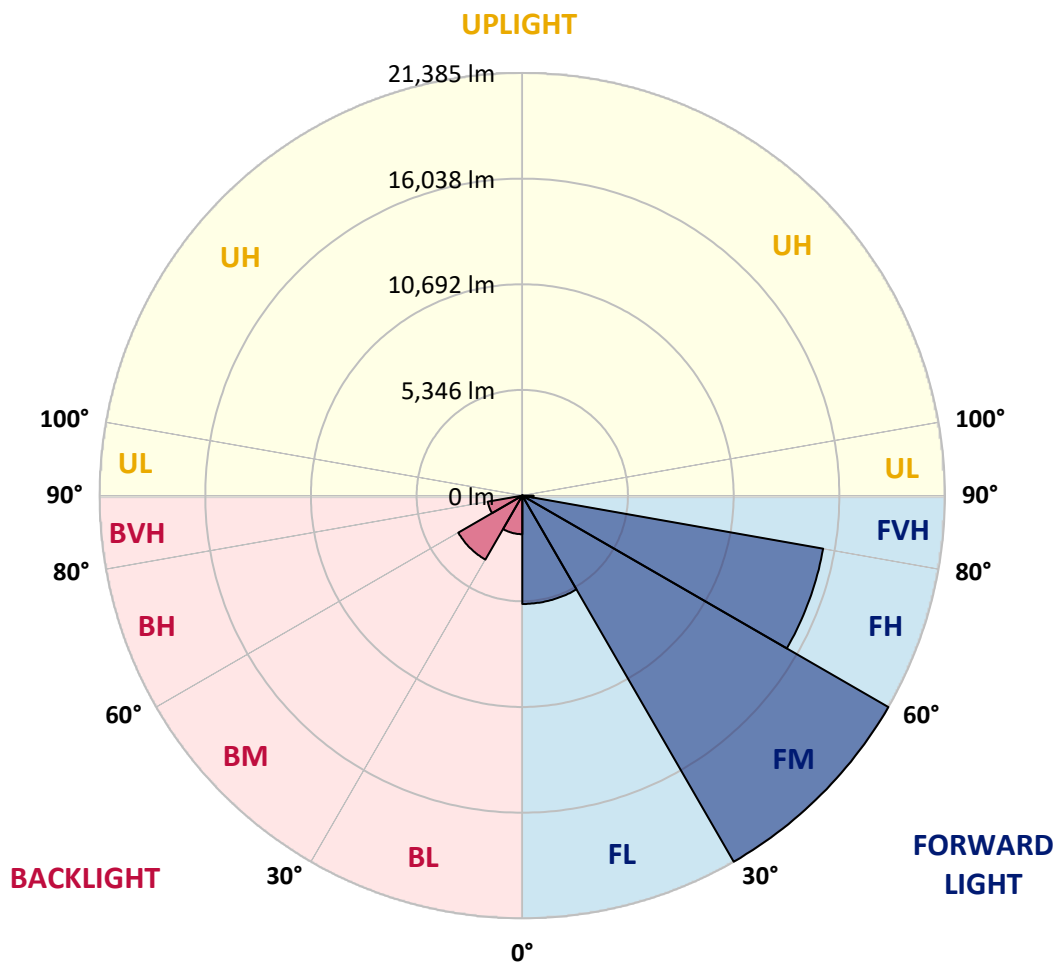
CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5480.3 | 10.9 | | | |
| FM | (30°-60°) | 21384.6 | 42.5 | | | |
| FH | (60°-80°) | 15453.9 | 30.7 | | | G5 |
| FVH | (80°-90°) | 570.7 | 1.1 | | | G4/750 |
| BL | (0°-30°) | 1950.1 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3737.9 | 7.4 | B3/5000 | | |
| BH | (60°-80°) | 1769.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 17.3 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P458380

CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 |
| 2.5° | 18630.9 | 18599.9 | 18875.1 | 19324.8 | 19778.4 | 20014.8 | 19968.3 | 19948.9 | 19572.9 | 19297.7 | 18720.0 |
| 5° | 18592.1 | 18751.1 | 19243.4 | 20460.6 | 21383.3 | 21829.1 | 21960.9 | 21406.5 | 20673.8 | 19611.7 | 18301.4 |
| 7.5° | 17479.5 | 17677.2 | 18479.7 | 20383.1 | 22022.9 | 22992.0 | 22957.2 | 22069.4 | 20557.5 | 18913.9 | 17045.4 |
| 10° | 16099.5 | 16332.1 | 17274.1 | 19584.5 | 21712.8 | 22992.0 | 23061.8 | 21937.6 | 20057.5 | 17948.6 | 15983.2 |
| 12.5° | 15126.4 | 15401.7 | 16444.5 | 18840.2 | 20914.2 | 22174.1 | 22255.5 | 21441.4 | 19681.4 | 17576.5 | 15405.6 |
| 15° | 14796.9 | 15056.7 | 16115.0 | 18464.2 | 20065.2 | 20743.6 | 20724.2 | 20639.0 | 19534.1 | 17665.6 | 15436.6 |
| 17.5° | 15362.9 | 15576.1 | 16770.1 | 18634.8 | 19270.5 | 19200.7 | 19301.5 | 19712.5 | 19565.1 | 18413.8 | 16413.5 |
| 20° | 16824.4 | 17041.5 | 18324.6 | 19158.1 | 18661.9 | 18220.0 | 18266.5 | 18952.6 | 19852.0 | 19821.0 | 17940.8 |
| 22.5° | 18836.3 | 19204.6 | 20367.6 | 20173.8 | 18580.5 | 17611.3 | 17514.4 | 18406.0 | 20340.5 | 21441.4 | 20003.2 |
| 25° | 21383.3 | 21755.4 | 22662.5 | 21794.2 | 18979.8 | 17467.9 | 17378.7 | 18239.3 | 20933.6 | 23023.1 | 22325.3 |
| 27.5° | 23523.1 | 23806.1 | 24709.4 | 23371.9 | 19569.0 | 17529.9 | 17382.6 | 18262.6 | 21414.3 | 24368.2 | 24282.9 |
| 30° | 25236.6 | 25445.9 | 25977.0 | 24108.5 | 20076.8 | 17801.3 | 17630.7 | 18603.7 | 21627.5 | 25023.4 | 25868.5 |
| 32.5° | 26616.7 | 26969.4 | 27136.1 | 24895.4 | 20805.6 | 18313.0 | 18022.3 | 19258.9 | 22146.9 | 25833.6 | 27531.5 |
| 35° | 28194.4 | 28601.5 | 28388.3 | 25647.5 | 21767.0 | 19111.6 | 18754.9 | 20321.1 | 22933.9 | 26581.8 | 29462.1 |
| 37.5° | 30194.7 | 30663.8 | 29830.3 | 26438.3 | 22782.7 | 20313.3 | 20146.6 | 21813.6 | 24127.9 | 27651.7 | 31532.2 |
| 40° | 32264.8 | 32536.2 | 31229.8 | 27399.7 | 24031.0 | 22061.7 | 22220.6 | 24031.0 | 25690.1 | 28934.9 | 33734.1 |
| 42.5° | 33881.4 | 34137.2 | 32668.0 | 28206.1 | 25306.4 | 24135.6 | 24798.5 | 26705.8 | 27481.1 | 30249.0 | 35377.7 |
| 45° | 35118.0 | 35335.1 | 33664.3 | 29086.0 | 27027.6 | 27140.0 | 28392.1 | 29462.1 | 29276.0 | 31051.5 | 36645.4 |
| 47.5° | 36079.4 | 36265.5 | 34431.9 | 30031.9 | 29605.5 | 30815.0 | 32730.0 | 33183.6 | 31136.8 | 31919.8 | 37792.9 |
| 50° | 36474.8 | 36529.1 | 34672.2 | 31237.5 | 32532.3 | 35497.9 | 37494.4 | 37219.1 | 33268.9 | 32885.1 | 39014.0 |
| 52.5° | 36990.4 | 36978.8 | 35358.4 | 32385.0 | 35284.7 | 39684.6 | 41677.2 | 41053.1 | 35680.1 | 34331.1 | 40386.3 |
| 55° | 38343.3 | 38358.8 | 36827.6 | 34013.2 | 37630.0 | 43065.0 | 45197.1 | 44743.6 | 38223.2 | 36773.3 | 41987.3 |
| 57.5° | 39987.0 | 40045.2 | 38917.1 | 35916.6 | 39870.7 | 45515.0 | 47825.5 | 47651.0 | 41661.7 | 39490.8 | 43499.2 |
| 59° | 40200.2 | 40316.5 | 39905.6 | 37257.9 | 41200.4 | 46267.1 | 48724.8 | 48895.4 | 43503.1 | 41281.8 | 44317.2 |
| 60° | 39812.6 | 40006.4 | 40192.5 | 38017.7 | 41979.6 | 46538.4 | 48779.1 | 49112.5 | 44887.0 | 42499.0 | 44689.3 |
| 62.5° | 38122.4 | 38428.6 | 39362.9 | 40355.3 | 42952.6 | 45693.3 | 47046.3 | 47744.1 | 46600.5 | 45697.2 | 44724.2 |
| 65° | 35908.8 | 36067.8 | 37416.8 | 40770.1 | 41064.7 | 41747.0 | 42165.6 | 43061.1 | 44542.0 | 46930.0 | 43123.2 |
| 67.5° | 32280.3 | 32749.4 | 34400.8 | 38362.7 | 35494.0 | 34687.7 | 34583.0 | 33691.4 | 37537.0 | 43991.5 | 39176.8 |
| 70° | 26667.0 | 26876.4 | 28911.6 | 31450.8 | 26787.2 | 25546.7 | 26042.9 | 25709.5 | 29097.7 | 37870.4 | 31532.2 |
| 72.5° | 20166.0 | 20639.0 | 22627.6 | 25069.9 | 18227.7 | 16618.9 | 17987.4 | 17863.3 | 21856.2 | 30435.1 | 21662.4 |
| 75° | 14347.3 | 14653.5 | 17188.8 | 19619.4 | 12765.6 | 10815.7 | 11308.0 | 11769.3 | 15258.3 | 24031.0 | 12800.5 |
| 77.5° | 9858.2 | 10121.8 | 12025.2 | 12974.9 | 9311.6 | 8920.0 | 8160.2 | 8606.0 | 9997.7 | 14258.1 | 6966.2 |
| 80° | 5946.7 | 5935.1 | 7187.2 | 7419.8 | 6485.5 | 7532.2 | 6318.8 | 7094.2 | 6043.6 | 6101.7 | 2698.1 |
| 82.5° | 3861.1 | 3822.3 | 4396.1 | 4791.5 | 3609.1 | 3795.2 | 2546.9 | 3671.1 | 3938.6 | 1701.8 | 852.8 |
| 85° | 1729.0 | 1802.6 | 2112.7 | 2787.3 | 1581.6 | 841.2 | 519.5 | 1128.1 | 1678.6 | 856.7 | 0.0 |
| 87.5° | 178.3 | 139.6 | 372.2 | 678.4 | 217.1 | 23.3 | 77.5 | 38.8 | 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 |



REPORT NUMBER: P458380

CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 |
| 2.5° | 18452.6 | 18227.7 | 17557.1 | 16929.1 | 16390.2 | 15731.2 | 15304.8 | 14634.1 | 14227.1 | 14103.0 | 14122.4 |
| 5° | 17712.1 | 17064.7 | 15789.3 | 14769.8 | 13634.0 | 12986.6 | 12001.9 | 11056.0 | 10544.3 | 10354.4 | 10269.1 |
| 7.5° | 16161.5 | 15467.6 | 13928.6 | 12327.6 | 11110.3 | 9974.5 | 9241.8 | 8408.3 | 7838.5 | 7369.4 | 7288.0 |
| 10° | 15010.1 | 14099.2 | 12191.9 | 10470.7 | 9509.3 | 8656.4 | 7923.7 | 7090.3 | 6419.6 | 5884.7 | 5737.4 |
| 12.5° | 14320.1 | 13300.6 | 11172.3 | 9730.2 | 8819.2 | 7943.1 | 6989.5 | 6024.2 | 5338.1 | 4760.5 | 4493.0 |
| 15° | 14196.1 | 13013.7 | 10885.5 | 9199.1 | 8074.9 | 7016.6 | 5749.0 | 4706.2 | 4000.6 | 3454.0 | 3287.3 |
| 17.5° | 14944.2 | 13529.3 | 10842.8 | 8644.8 | 7101.9 | 5601.7 | 4283.6 | 3419.2 | 2624.5 | 2318.2 | 2198.0 |
| 20° | 16277.8 | 14440.3 | 10838.9 | 8001.3 | 6101.7 | 4314.6 | 3008.2 | 2229.0 | 1907.3 | 1760.0 | 1690.2 |
| 22.5° | 18095.9 | 15680.8 | 11044.4 | 7446.9 | 5062.8 | 3182.7 | 2147.6 | 1775.5 | 1589.4 | 1469.2 | 1442.1 |
| 25° | 20317.2 | 17518.3 | 11548.4 | 7070.9 | 4268.1 | 2496.5 | 1771.6 | 1519.6 | 1364.6 | 1310.3 | 1287.0 |
| 27.5° | 22290.4 | 19278.3 | 12102.7 | 6683.2 | 3698.3 | 2209.7 | 1643.7 | 1391.7 | 1267.6 | 1225.0 | 1190.1 |
| 30° | 23992.2 | 20875.4 | 12370.2 | 6171.5 | 3240.8 | 2023.6 | 1666.9 | 1488.6 | 1325.8 | 1197.9 | 1139.7 |
| 32.5° | 25411.0 | 22100.4 | 12544.6 | 5706.3 | 2853.2 | 1655.3 | 1318.0 | 1151.3 | 1077.7 | 1031.2 | 992.4 |
| 35° | 27186.5 | 23426.2 | 12440.0 | 5442.7 | 2655.5 | 1508.0 | 1201.7 | 992.4 | 868.4 | 775.3 | 736.6 |
| 37.5° | 29047.3 | 24752.0 | 12257.8 | 5225.6 | 2566.3 | 1399.4 | 1143.6 | 942.0 | 806.3 | 709.4 | 659.0 |
| 40° | 30973.9 | 25980.9 | 12044.6 | 5024.1 | 2484.9 | 1329.7 | 1108.7 | 899.4 | 763.7 | 659.0 | 604.7 |
| 42.5° | 32737.8 | 27178.8 | 11959.3 | 4892.3 | 2353.1 | 1341.3 | 1081.6 | 880.0 | 721.0 | 612.5 | 566.0 |
| 45° | 34164.4 | 28314.6 | 12075.6 | 4822.5 | 2209.7 | 1321.9 | 1089.3 | 856.7 | 686.2 | 581.5 | 535.0 |
| 47.5° | 35687.9 | 29919.5 | 12451.6 | 4752.7 | 2070.1 | 1228.9 | 1147.5 | 852.8 | 670.6 | 562.1 | 511.7 |
| 50° | 37459.5 | 31974.1 | 13312.2 | 4582.1 | 1899.5 | 1128.1 | 1221.1 | 849.0 | 651.3 | 538.8 | 488.5 |
| 52.5° | 39820.3 | 34307.8 | 14199.9 | 4283.6 | 1651.4 | 1031.2 | 1166.9 | 837.3 | 612.5 | 511.7 | 461.3 |
| 55° | 41940.8 | 36765.6 | 14952.0 | 3930.9 | 1337.4 | 891.6 | 1050.6 | 786.9 | 546.6 | 465.2 | 418.7 |
| 57.5° | 42816.9 | 38153.4 | 14928.7 | 3442.4 | 1069.9 | 783.1 | 864.5 | 721.0 | 476.8 | 410.9 | 372.2 |
| 59° | 42495.2 | 37978.9 | 14428.7 | 3081.9 | 976.9 | 724.9 | 717.2 | 713.3 | 445.8 | 372.2 | 341.1 |
| 60° | 42041.6 | 37343.2 | 13889.8 | 2903.6 | 918.8 | 686.2 | 659.0 | 705.5 | 418.7 | 348.9 | 317.9 |
| 62.5° | 40304.9 | 34707.1 | 12102.7 | 2601.2 | 841.2 | 581.5 | 527.2 | 597.0 | 372.2 | 302.4 | 275.2 |
| 65° | 37789.0 | 30656.1 | 10245.8 | 2515.9 | 818.0 | 480.7 | 438.1 | 426.4 | 317.9 | 255.9 | 232.6 |
| 67.5° | 32881.2 | 25942.1 | 8299.8 | 2457.8 | 825.7 | 403.2 | 383.8 | 321.8 | 263.6 | 213.2 | 197.7 |
| 70° | 26325.9 | 20228.0 | 6795.7 | 2391.9 | 833.5 | 329.5 | 321.8 | 255.9 | 213.2 | 178.3 | 162.8 |
| 72.5° | 15994.8 | 11990.3 | 5349.7 | 2077.9 | 810.2 | 263.6 | 286.9 | 193.8 | 155.1 | 127.9 | 120.2 |
| 75° | 9889.2 | 8206.7 | 3318.4 | 1616.5 | 535.0 | 193.8 | 201.6 | 120.2 | 104.7 | 81.4 | 81.4 |
| 77.5° | 5729.6 | 5183.0 | 1186.2 | 581.5 | 236.5 | 116.3 | 89.2 | 62.0 | 58.1 | 34.9 | 34.9 |
| 80° | 2376.3 | 1903.4 | 410.9 | 197.7 | 127.9 | 54.3 | 19.4 | 3.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 693.9 | 616.4 | 112.4 | 89.2 | 38.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GALN-SA9D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 |
| 2.5° | 13792.9 | 13665.0 | 13606.8 | 13804.5 | 13622.3 | 13854.9 | 13676.6 | 13754.1 | 13982.9 | 14083.6 | 14343.4 |
| 5° | 10323.4 | 10191.6 | 10129.5 | 10428.0 | 10412.5 | 10559.8 | 10544.3 | 10680.0 | 10796.3 | 10536.6 | 10804.1 |
| 7.5° | 7191.1 | 7101.9 | 7249.2 | 7481.8 | 7729.9 | 7648.5 | 7648.5 | 7466.3 | 7528.3 | 7489.6 | 7477.9 |
| 10° | 5469.9 | 5163.6 | 5086.1 | 5078.3 | 5171.4 | 5190.8 | 5086.1 | 4834.1 | 4927.1 | 4954.3 | 5117.1 |
| 12.5° | 4303.0 | 4066.5 | 3706.0 | 3543.2 | 3500.6 | 3535.4 | 3190.4 | 2969.5 | 3074.1 | 3012.1 | 3171.0 |
| 15° | 3085.8 | 2891.9 | 2678.7 | 2496.5 | 2446.1 | 2376.3 | 2000.3 | 1736.7 | 1705.7 | 1717.3 | 1744.5 |
| 17.5° | 2201.9 | 2070.1 | 2070.1 | 1876.3 | 1771.6 | 1562.3 | 1372.3 | 1256.0 | 1244.4 | 1256.0 | 1275.4 |
| 20° | 1624.3 | 1554.5 | 1546.8 | 1496.4 | 1380.1 | 1240.5 | 1108.7 | 1085.4 | 1077.7 | 1097.1 | 1104.8 |
| 22.5° | 1399.4 | 1325.8 | 1263.8 | 1259.9 | 1151.3 | 1035.0 | 973.0 | 942.0 | 945.9 | 953.6 | 973.0 |
| 25° | 1252.1 | 1174.6 | 1108.7 | 1069.9 | 992.4 | 911.0 | 852.8 | 837.3 | 837.3 | 849.0 | 852.8 |
| 27.5° | 1147.5 | 1050.6 | 992.4 | 938.1 | 868.4 | 798.6 | 748.2 | 736.6 | 728.8 | 736.6 | 755.9 |
| 30° | 1073.8 | 976.9 | 903.2 | 821.8 | 767.6 | 701.7 | 659.0 | 643.5 | 639.6 | 643.5 | 659.0 |
| 32.5° | 918.8 | 860.6 | 802.5 | 728.8 | 662.9 | 620.3 | 573.7 | 546.6 | 546.6 | 554.4 | 569.9 |
| 35° | 693.9 | 662.9 | 659.0 | 639.6 | 585.4 | 538.8 | 484.6 | 457.4 | 457.4 | 472.9 | 480.7 |
| 37.5° | 612.5 | 554.4 | 546.6 | 538.8 | 515.6 | 453.6 | 403.2 | 379.9 | 376.0 | 387.7 | 403.2 |
| 40° | 558.2 | 492.3 | 457.4 | 449.7 | 453.6 | 383.8 | 329.5 | 306.3 | 306.3 | 310.1 | 325.6 |
| 42.5° | 515.6 | 438.1 | 376.0 | 368.3 | 383.8 | 321.8 | 267.5 | 244.2 | 244.2 | 244.2 | 263.6 |
| 45° | 480.7 | 391.5 | 317.9 | 279.1 | 302.4 | 263.6 | 217.1 | 193.8 | 186.1 | 193.8 | 201.6 |
| 47.5° | 457.4 | 356.6 | 279.1 | 224.8 | 224.8 | 209.3 | 174.4 | 147.3 | 139.6 | 143.4 | 155.1 |
| 50° | 438.1 | 325.6 | 236.5 | 182.2 | 162.8 | 166.7 | 131.8 | 112.4 | 104.7 | 104.7 | 116.3 |
| 52.5° | 407.0 | 294.6 | 205.5 | 155.1 | 124.1 | 112.4 | 96.9 | 81.4 | 77.5 | 81.4 | 89.2 |
| 55° | 368.3 | 267.5 | 178.3 | 127.9 | 96.9 | 77.5 | 69.8 | 58.1 | 54.3 | 58.1 | 69.8 |
| 57.5° | 325.6 | 224.8 | 143.4 | 100.8 | 65.9 | 50.4 | 46.5 | 38.8 | 31.0 | 34.9 | 42.6 |
| 59° | 298.5 | 201.6 | 124.1 | 81.4 | 50.4 | 34.9 | 34.9 | 27.1 | 19.4 | 23.3 | 34.9 |
| 60° | 286.9 | 186.1 | 104.7 | 69.8 | 42.6 | 27.1 | 27.1 | 19.4 | 11.6 | 15.5 | 27.1 |
| 62.5° | 244.2 | 155.1 | 81.4 | 42.6 | 19.4 | 3.9 | 11.6 | 3.9 | 0.0 | 3.9 | 11.6 |
| 65° | 205.5 | 124.1 | 54.3 | 19.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 |
| 67.5° | 170.6 | 93.0 | 27.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 135.7 | 62.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 93.0 | 34.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 58.1 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 23.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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| 0° | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 | 17053.1 |
| 2.5° | 14358.9 | 14913.2 | 15254.4 | 15897.9 | 16556.9 | 17064.7 | 17700.5 | 18270.4 | 18506.8 | 18630.9 |
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| 15° | 2054.6 | 2729.1 | 3756.4 | 5586.2 | 7218.2 | 8931.7 | 10932.0 | 13436.3 | 14490.7 | 14796.9 |
| 17.5° | 1376.2 | 1608.8 | 2314.3 | 3713.8 | 5869.2 | 8140.8 | 10757.5 | 13804.5 | 14971.4 | 15362.9 |
| 20° | 1159.1 | 1263.8 | 1511.9 | 2263.9 | 4520.1 | 7435.3 | 10804.1 | 14804.7 | 16335.9 | 16824.4 |
| 22.5° | 1019.5 | 1116.5 | 1275.4 | 1628.2 | 3155.5 | 6559.2 | 11025.0 | 16235.2 | 18212.2 | 18836.3 |
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| 27.5° | 798.6 | 887.7 | 1007.9 | 1190.1 | 1632.0 | 4419.3 | 11939.9 | 20367.6 | 22964.9 | 23523.1 |
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| 35° | 523.3 | 597.0 | 690.0 | 794.7 | 965.3 | 2097.2 | 11249.9 | 24934.2 | 27884.3 | 28194.4 |
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| 42.5° | 310.1 | 383.8 | 469.1 | 589.2 | 690.0 | 1007.9 | 8509.1 | 28927.1 | 33191.3 | 33881.4 |
| 45° | 248.1 | 329.5 | 422.5 | 585.4 | 600.9 | 767.6 | 7543.8 | 29857.5 | 34497.8 | 35118.0 |
| 47.5° | 197.7 | 279.1 | 407.0 | 546.6 | 492.3 | 608.6 | 6993.4 | 30830.5 | 35583.2 | 36079.4 |
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| 52.5° | 127.9 | 190.0 | 360.5 | 368.3 | 348.9 | 453.6 | 7396.5 | 33137.1 | 36719.0 | 36990.4 |
| 55° | 108.5 | 158.9 | 236.5 | 271.4 | 314.0 | 410.9 | 7710.5 | 35017.2 | 38087.5 | 38343.3 |
| 57.5° | 85.3 | 135.7 | 182.2 | 217.1 | 279.1 | 376.0 | 7753.2 | 36467.1 | 39820.3 | 39987.0 |
| 59° | 73.7 | 116.3 | 162.8 | 193.8 | 255.9 | 352.8 | 7578.7 | 36556.2 | 39932.7 | 40200.2 |
| 60° | 62.0 | 104.7 | 143.4 | 182.2 | 236.5 | 333.4 | 7388.8 | 35908.8 | 39514.1 | 39812.6 |
| 62.5° | 46.5 | 81.4 | 104.7 | 147.3 | 193.8 | 286.9 | 6489.4 | 33648.8 | 37913.0 | 38122.4 |
| 65° | 31.0 | 58.1 | 77.5 | 108.5 | 151.2 | 248.1 | 5287.7 | 30718.1 | 35439.8 | 35908.8 |
| 67.5° | 19.4 | 42.6 | 62.0 | 81.4 | 124.1 | 209.3 | 3768.0 | 26341.4 | 31978.0 | 32280.3 |
| 70° | 11.6 | 27.1 | 46.5 | 65.9 | 96.9 | 166.7 | 2236.8 | 20821.2 | 26605.0 | 26667.0 |
| 72.5° | 7.8 | 19.4 | 31.0 | 46.5 | 77.5 | 151.2 | 1085.4 | 13571.9 | 19425.6 | 20166.0 |
| 75° | 3.9 | 11.6 | 19.4 | 34.9 | 62.0 | 124.1 | 519.5 | 9067.3 | 14134.0 | 14347.3 |
| 77.5° | 0.0 | 3.9 | 11.6 | 23.3 | 46.5 | 96.9 | 302.4 | 5954.4 | 9637.2 | 9858.2 |
| 80° | 0.0 | 0.0 | 7.8 | 19.4 | 34.9 | 62.0 | 182.2 | 3512.2 | 5838.1 | 5946.7 |
| 82.5° | 0.0 | 0.0 | 3.9 | 15.5 | 23.3 | 46.5 | 93.0 | 1542.9 | 3822.3 | 3861.1 |
| 85° | 0.0 | 0.0 | 3.9 | 15.5 | 19.4 | 31.0 | 34.9 | 209.3 | 1697.9 | 1729.0 |
| 87.5° | 0.0 | 0.0 | 3.9 | 19.4 | 19.4 | 19.4 | 19.4 | 11.6 | 143.4 | 178.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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