

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: P458406

Luminaire Tested: **GALN-SA9D-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69511 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

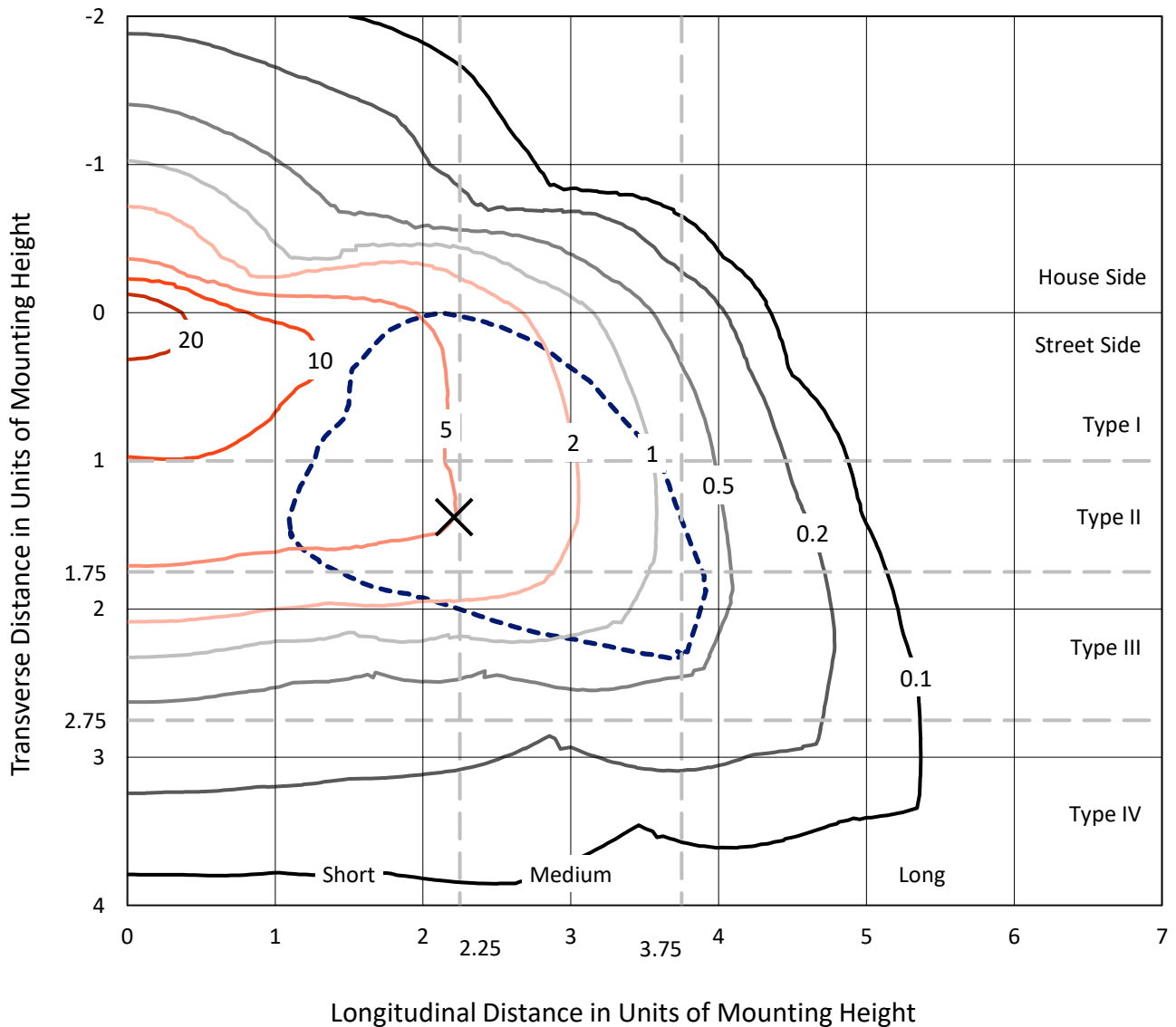
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

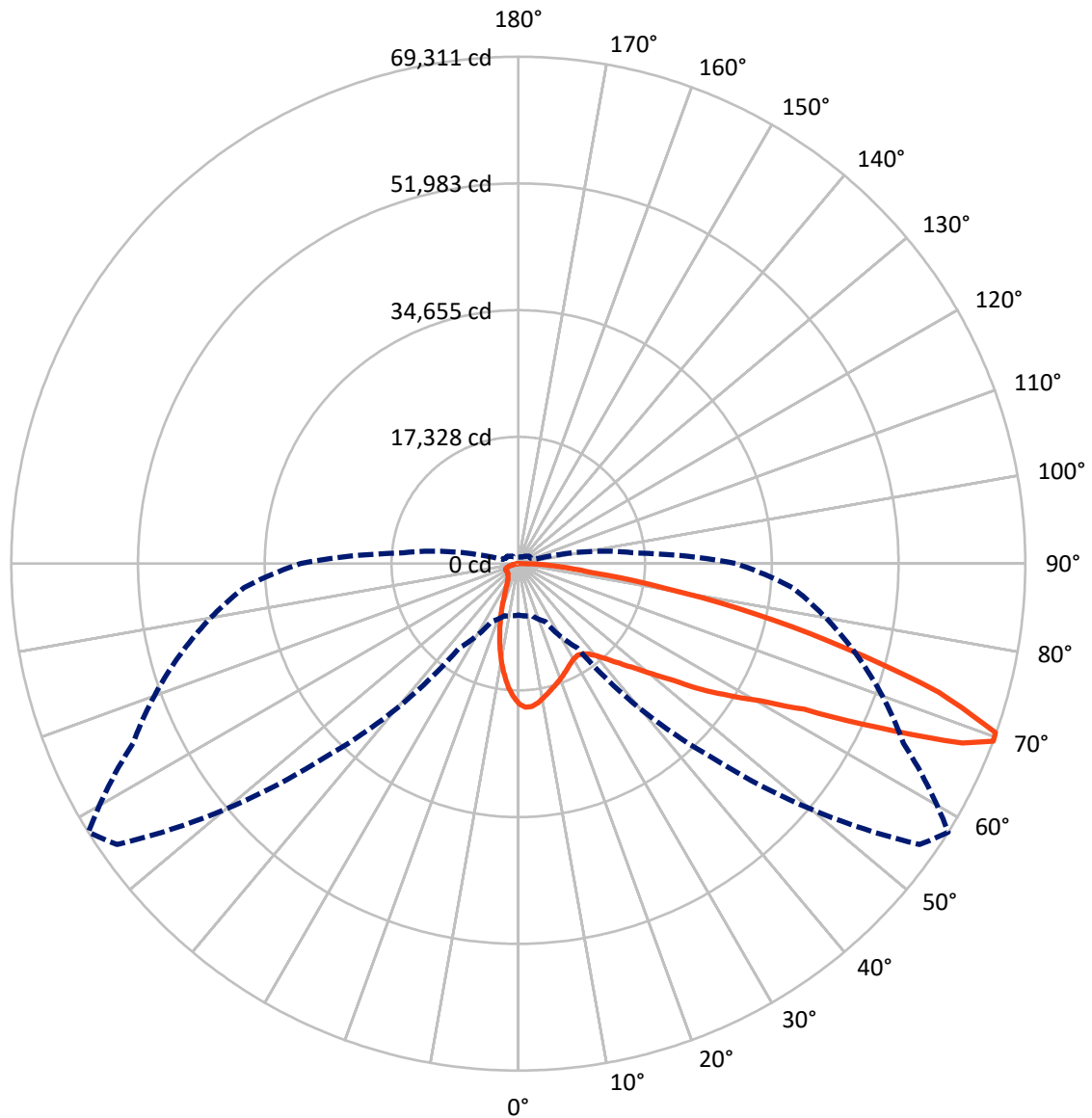
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10186.8 | 0.0 | 10186.8 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 59324.2 | 0.0 | 59324.2 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 69511.0 | 0.0 | 69511.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1631.3 | 2.3 |
| 10°-20° | 3582.0 | 5.2 |
| 20°-30° | 4628.0 | 6.7 |
| 30°-40° | 6010.9 | 8.6 |
| 40°-50° | 8739.0 | 12.6 |
| 50°-60° | 13944.6 | 20.1 |
| 60°-70° | 18628.3 | 26.8 |
| 70°-80° | 10738.4 | 15.4 |
| 80°-90° | 1608.4 | 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° | 69511.0 | 100.0 |
| 0°-180° | 69511.0 | 100.0 |

Coefficient of Utilization



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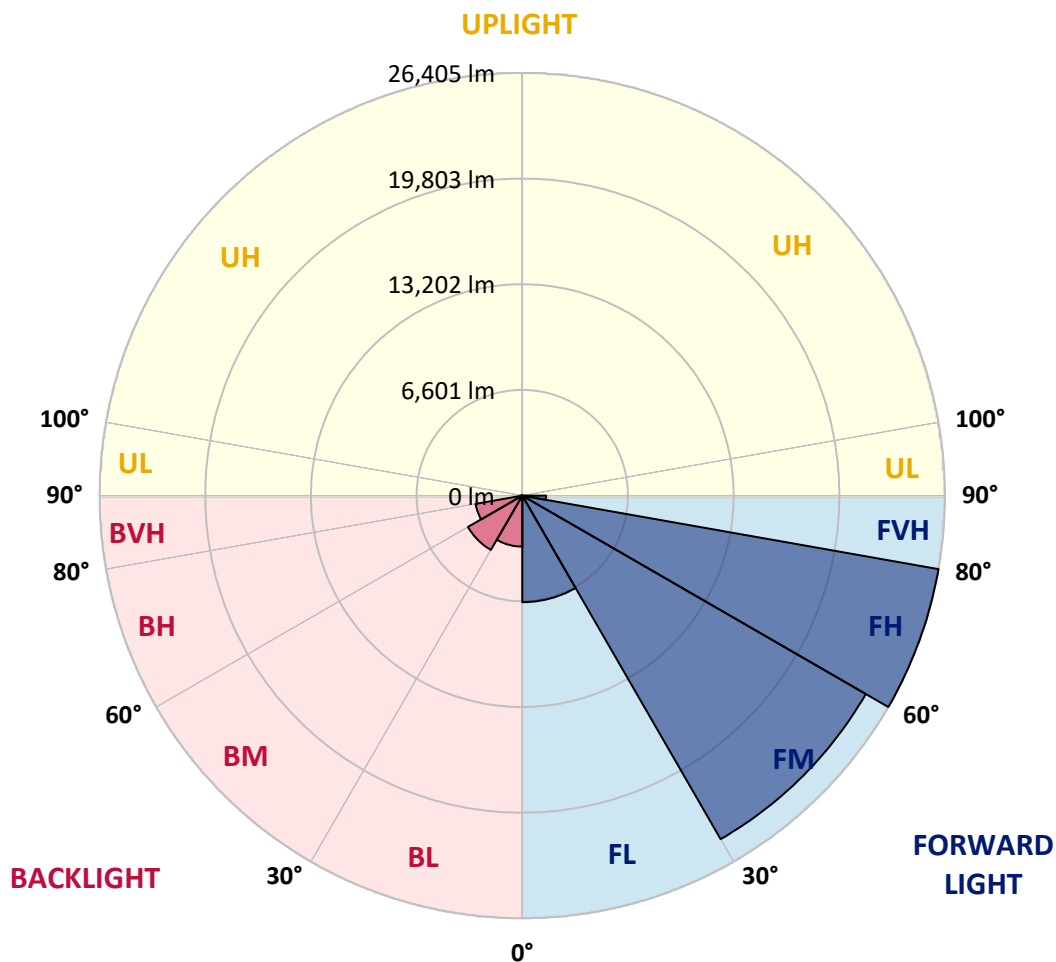
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 6657.4 | 9.6 | | | |
| FM | (30°-60°) | 24777.1 | 35.6 | | | |
| FH | (60°-80°) | 26404.6 | 38.0 | | | G5 |
| FVH | (80°-90°) | 1485.2 | 2.1 | | | G5 |
| BL | (0°-30°) | 3184.0 | 4.6 | B4/5000 | | |
| BM | (30°-60°) | 3917.5 | 5.6 | B3/5000 | | |
| BH | (60°-80°) | 2962.1 | 4.3 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 123.2 | 0.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 |
| 2.5° | 19922.1 | 19976.3 | 19960.8 | 19941.5 | 19910.4 | 19825.2 | 19685.6 | 19662.3 | 19573.2 | 19383.2 | 19146.7 |
| 5° | 19615.8 | 19662.3 | 19666.2 | 19693.4 | 19732.1 | 19716.6 | 19615.8 | 19604.2 | 19472.4 | 19216.5 | 18821.1 |
| 7.5° | 18565.2 | 18627.3 | 18763.0 | 18914.1 | 19049.8 | 19177.8 | 19208.8 | 19228.2 | 19146.7 | 18852.1 | 18324.9 |
| 10° | 17382.9 | 17444.9 | 17506.9 | 17731.8 | 18065.2 | 18383.0 | 18646.7 | 18681.5 | 18700.9 | 18429.6 | 17786.0 |
| 12.5° | 16072.6 | 16200.5 | 16332.3 | 16665.7 | 17111.5 | 17611.6 | 18076.8 | 18150.4 | 18282.3 | 18076.8 | 17320.8 |
| 15° | 14960.0 | 15091.8 | 15281.7 | 15580.2 | 16119.1 | 16840.1 | 17495.3 | 17615.5 | 17875.2 | 17770.5 | 16886.7 |
| 17.5° | 14188.5 | 14235.0 | 14366.8 | 14708.0 | 15289.5 | 16049.3 | 16925.4 | 17165.8 | 17580.6 | 17553.4 | 16514.5 |
| 20° | 13579.9 | 13638.0 | 13719.4 | 13928.8 | 14533.5 | 15336.0 | 16394.3 | 16704.5 | 17266.6 | 17359.6 | 16146.2 |
| 22.5° | 13324.0 | 13366.7 | 13355.0 | 13467.5 | 13878.4 | 14684.7 | 15855.5 | 16223.8 | 16987.5 | 17227.8 | 15805.1 |
| 25° | 13339.5 | 13378.3 | 13320.1 | 13293.0 | 13537.2 | 14111.0 | 15293.4 | 15762.4 | 16762.6 | 17138.6 | 15494.9 |
| 27.5° | 13599.3 | 13626.4 | 13517.9 | 13409.3 | 13428.7 | 13754.3 | 14828.2 | 15347.6 | 16572.7 | 17177.4 | 15235.2 |
| 30° | 13948.2 | 13998.6 | 13928.8 | 13797.0 | 13653.5 | 13669.0 | 14529.7 | 15041.4 | 16483.5 | 17313.1 | 15111.2 |
| 32.5° | 14397.9 | 14444.4 | 14413.4 | 14308.7 | 14122.6 | 13917.2 | 14456.0 | 14929.0 | 16491.2 | 17588.3 | 15084.0 |
| 35° | 14870.8 | 14963.8 | 15014.2 | 15006.5 | 14855.3 | 14498.6 | 14746.8 | 15138.3 | 16677.3 | 18049.7 | 15243.0 |
| 37.5° | 15405.8 | 15483.3 | 15700.4 | 15840.0 | 15700.4 | 15285.6 | 15401.9 | 15673.3 | 17088.2 | 18716.4 | 15591.9 |
| 40° | 15925.3 | 16041.6 | 16359.4 | 16793.6 | 16739.3 | 16374.9 | 16402.1 | 16580.4 | 17813.2 | 19708.9 | 16274.2 |
| 42.5° | 16468.0 | 16607.5 | 17161.9 | 17805.4 | 17933.4 | 17650.4 | 17724.0 | 17883.0 | 18844.4 | 21085.1 | 17444.9 |
| 45° | 17165.8 | 17332.5 | 18014.8 | 18817.2 | 19321.2 | 19146.7 | 19356.1 | 19433.6 | 20224.5 | 22876.1 | 18987.8 |
| 47.5° | 18065.2 | 18259.0 | 19100.2 | 20100.4 | 20813.7 | 20972.6 | 21337.0 | 21290.5 | 21934.1 | 24996.6 | 20988.2 |
| 50° | 19580.9 | 19689.5 | 20484.2 | 21503.7 | 22484.5 | 23201.7 | 23597.1 | 23670.8 | 24054.6 | 27059.0 | 23225.0 |
| 52.5° | 21383.6 | 21480.5 | 22054.2 | 22945.9 | 24174.8 | 25694.4 | 26671.3 | 26431.0 | 26524.0 | 29571.0 | 25841.7 |
| 55° | 23411.1 | 23573.9 | 23938.3 | 24531.4 | 26124.7 | 28361.5 | 30323.1 | 30381.3 | 29350.1 | 31974.6 | 28349.9 |
| 57.5° | 24981.1 | 25256.3 | 25880.5 | 26725.6 | 28745.3 | 31327.2 | 33963.3 | 34002.0 | 32684.0 | 34540.9 | 31117.8 |
| 60° | 24190.3 | 24515.9 | 25942.5 | 28001.0 | 32183.9 | 36502.5 | 38312.9 | 38091.9 | 35928.7 | 37463.9 | 34494.4 |
| 62.5° | 20778.8 | 20837.0 | 22911.0 | 26128.6 | 33242.2 | 43426.2 | 44786.9 | 43852.6 | 40258.9 | 41170.0 | 37925.2 |
| 65° | 13448.1 | 13828.0 | 15471.7 | 19980.2 | 29764.9 | 47267.9 | 56129.9 | 53970.6 | 46329.8 | 45376.1 | 40797.8 |
| 67.5° | 8489.9 | 8392.9 | 9075.2 | 11409.0 | 20472.6 | 43883.6 | 65809.9 | 65468.8 | 54269.1 | 48031.6 | 40111.6 |
| 69° | 7040.0 | 7148.5 | 7381.1 | 8745.7 | 14087.7 | 37467.8 | 66953.5 | 69310.5 | 58118.6 | 47822.3 | 37619.0 |
| 70° | 6384.8 | 6435.2 | 6679.5 | 7753.3 | 10870.1 | 31381.4 | 65077.2 | 69205.8 | 59630.5 | 46946.2 | 35812.4 |
| 72.5° | 5066.8 | 5062.9 | 5481.6 | 6450.7 | 8125.4 | 17914.0 | 53435.7 | 60084.1 | 57940.3 | 42867.9 | 29590.4 |
| 75° | 3849.5 | 3911.5 | 4372.9 | 5458.3 | 7485.8 | 9788.5 | 37289.4 | 46271.6 | 46275.5 | 33858.6 | 18464.5 |
| 77.5° | 2775.7 | 2814.4 | 3353.3 | 4582.2 | 7051.6 | 7935.5 | 24837.7 | 33187.9 | 31199.2 | 15514.3 | 5803.3 |
| 80° | 1818.1 | 1841.4 | 2252.3 | 3628.5 | 6357.7 | 7485.8 | 14727.4 | 20313.6 | 14715.7 | 4117.0 | 1918.9 |
| 82.5° | 996.3 | 1112.6 | 1376.2 | 2349.2 | 5101.7 | 6915.9 | 8951.2 | 10280.9 | 5520.3 | 1833.7 | 1000.2 |
| 85° | 500.1 | 531.1 | 775.3 | 1372.3 | 3333.9 | 5721.9 | 6233.6 | 5896.4 | 2849.3 | 911.0 | 519.5 |
| 87.5° | 147.3 | 186.1 | 321.8 | 531.1 | 1352.9 | 2981.1 | 3469.6 | 3112.9 | 1097.1 | 329.5 | 108.5 |
| 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-750-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 | 19208.8 |
| 2.5° | 19049.8 | 18980.0 | 18669.9 | 18390.8 | 18134.9 | 17863.6 | 17634.9 | 17433.3 | 17452.7 | 17456.5 | 17251.1 |
| 5° | 18615.6 | 18456.7 | 17867.5 | 17317.0 | 16851.8 | 16262.5 | 15758.6 | 15432.9 | 15270.1 | 15053.0 | 15130.5 |
| 7.5° | 18026.4 | 17720.1 | 16902.2 | 15987.3 | 15130.5 | 14366.8 | 13537.2 | 12967.4 | 12603.0 | 12250.2 | 12296.7 |
| 10° | 17417.8 | 16925.4 | 15735.3 | 14525.8 | 13417.1 | 12195.9 | 11137.6 | 10230.5 | 9555.9 | 9303.9 | 9137.2 |
| 12.5° | 16793.6 | 16146.2 | 14634.3 | 13025.5 | 11494.2 | 10032.8 | 8532.5 | 7559.5 | 6815.1 | 6419.7 | 6470.1 |
| 15° | 16223.8 | 15436.8 | 13486.8 | 11525.3 | 9536.5 | 7795.9 | 6299.5 | 5373.0 | 4853.6 | 4745.0 | 4807.0 |
| 17.5° | 15696.5 | 14665.3 | 12413.0 | 10067.6 | 7745.5 | 5846.0 | 4733.4 | 4210.0 | 4000.7 | 3942.5 | 3938.7 |
| 20° | 15153.8 | 14010.2 | 11207.4 | 8509.2 | 6035.9 | 4531.8 | 3884.4 | 3640.2 | 3601.4 | 3624.7 | 3628.5 |
| 22.5° | 14603.3 | 13200.0 | 9966.9 | 6962.5 | 4807.0 | 3706.1 | 3395.9 | 3330.0 | 3361.1 | 3415.3 | 3423.1 |
| 25° | 14095.5 | 12486.7 | 8772.8 | 5605.6 | 3837.9 | 3256.4 | 3105.2 | 3105.2 | 3175.0 | 3256.4 | 3260.3 |
| 27.5° | 13676.8 | 11796.6 | 7582.7 | 4450.4 | 3213.7 | 2930.7 | 2880.3 | 2907.5 | 3004.4 | 3066.4 | 3070.3 |
| 30° | 13331.8 | 11153.1 | 6458.5 | 3566.5 | 2826.1 | 2671.0 | 2659.4 | 2705.9 | 2775.7 | 2833.8 | 2837.7 |
| 32.5° | 13072.0 | 10587.1 | 5407.9 | 2996.6 | 2558.6 | 2473.3 | 2469.4 | 2504.3 | 2543.1 | 2558.6 | 2574.1 |
| 35° | 12971.3 | 10118.0 | 4446.5 | 2636.1 | 2380.3 | 2326.0 | 2326.0 | 2322.1 | 2337.6 | 2345.4 | 2353.1 |
| 37.5° | 13052.7 | 9757.5 | 3702.2 | 2403.5 | 2248.5 | 2209.7 | 2186.4 | 2163.2 | 2155.4 | 2155.4 | 2159.3 |
| 40° | 13397.7 | 9567.6 | 3147.8 | 2252.3 | 2155.4 | 2097.3 | 2054.6 | 2027.5 | 2000.3 | 2008.1 | 2015.9 |
| 42.5° | 14130.4 | 9602.4 | 2771.8 | 2151.5 | 2074.0 | 1992.6 | 1930.6 | 1899.6 | 1880.2 | 1903.4 | 1899.6 |
| 45° | 15297.2 | 9951.3 | 2531.4 | 2081.8 | 1992.6 | 1887.9 | 1829.8 | 1798.8 | 1798.8 | 1833.7 | 1845.3 |
| 47.5° | 16929.3 | 10618.1 | 2403.5 | 2027.5 | 1930.6 | 1806.5 | 1748.4 | 1725.1 | 1732.9 | 1791.0 | 1794.9 |
| 50° | 18921.9 | 11777.2 | 2380.3 | 2000.3 | 1899.6 | 1748.4 | 1682.5 | 1659.2 | 1678.6 | 1740.6 | 1748.4 |
| 52.5° | 21120.0 | 13269.8 | 2492.7 | 2004.2 | 1872.4 | 1713.5 | 1628.2 | 1593.3 | 1612.7 | 1663.1 | 1678.6 |
| 55° | 23725.1 | 15138.3 | 2783.4 | 2019.7 | 1833.7 | 1694.1 | 1589.4 | 1511.9 | 1535.2 | 1570.0 | 1573.9 |
| 57.5° | 26384.4 | 17495.3 | 3295.1 | 2023.6 | 1802.6 | 1659.2 | 1523.5 | 1422.7 | 1422.7 | 1446.0 | 1457.6 |
| 60° | 29633.1 | 20061.6 | 3969.7 | 2027.5 | 1806.5 | 1608.8 | 1434.4 | 1321.9 | 1306.4 | 1318.1 | 1321.9 |
| 62.5° | 32858.4 | 22209.3 | 4082.1 | 2015.9 | 1845.3 | 1558.4 | 1337.4 | 1221.1 | 1194.0 | 1190.1 | 1182.4 |
| 65° | 34281.2 | 21810.0 | 3345.5 | 1961.6 | 1887.9 | 1527.4 | 1259.9 | 1124.2 | 1077.7 | 1062.2 | 1062.2 |
| 67.5° | 31962.9 | 18448.9 | 2515.9 | 1887.9 | 1860.8 | 1496.4 | 1186.3 | 1042.8 | 988.5 | 957.5 | 957.5 |
| 69° | 29784.3 | 16409.8 | 2260.1 | 1837.5 | 1791.0 | 1446.0 | 1139.7 | 1000.2 | 934.3 | 899.4 | 887.8 |
| 70° | 28101.8 | 15006.5 | 2151.5 | 1794.9 | 1725.1 | 1387.8 | 1104.8 | 969.2 | 895.5 | 856.7 | 849.0 |
| 72.5° | 22426.4 | 11773.4 | 1884.0 | 1632.1 | 1469.2 | 1166.9 | 980.8 | 872.2 | 802.5 | 759.8 | 748.2 |
| 75° | 12924.7 | 6381.0 | 1562.3 | 1418.9 | 1182.4 | 907.1 | 829.6 | 759.8 | 705.5 | 666.8 | 655.2 |
| 77.5° | 3977.4 | 2465.5 | 1132.0 | 1120.4 | 868.4 | 701.7 | 662.9 | 635.8 | 597.0 | 554.4 | 546.6 |
| 80° | 1674.7 | 1256.0 | 767.6 | 755.9 | 577.6 | 488.5 | 476.8 | 473.0 | 457.4 | 422.6 | 410.9 |
| 82.5° | 918.8 | 709.4 | 535.0 | 465.2 | 348.9 | 283.0 | 294.6 | 298.5 | 286.9 | 252.0 | 228.7 |
| 85° | 449.7 | 387.7 | 259.7 | 209.3 | 158.9 | 100.8 | 96.9 | 116.3 | 108.5 | 77.5 | 85.3 |
| 87.5° | 89.2 | 108.5 | 69.8 | 31.0 | 15.5 | 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 |

(END OF REPORT)