

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: P530575

Luminaire Tested: **GALN-SA5D-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21417 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

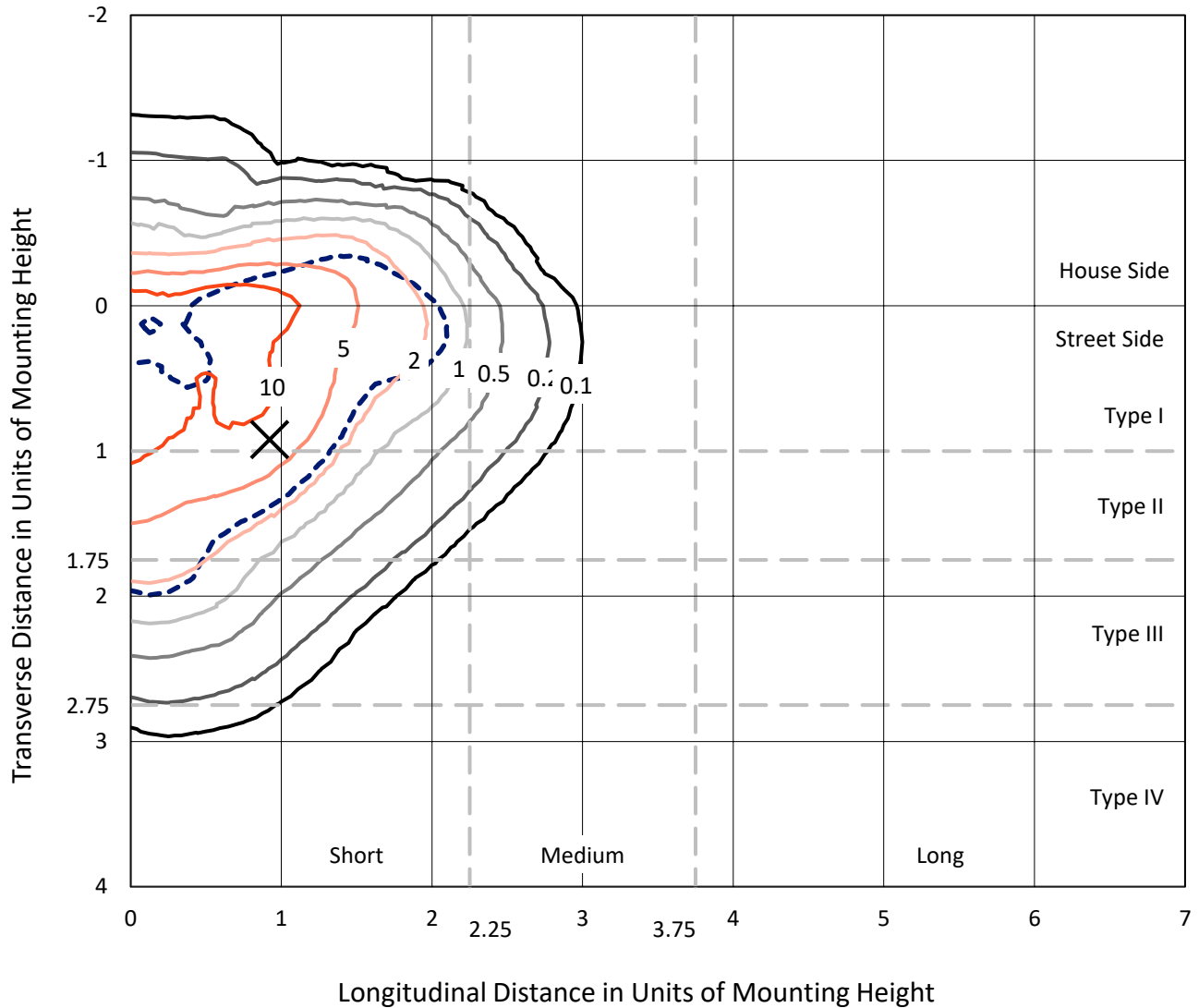
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

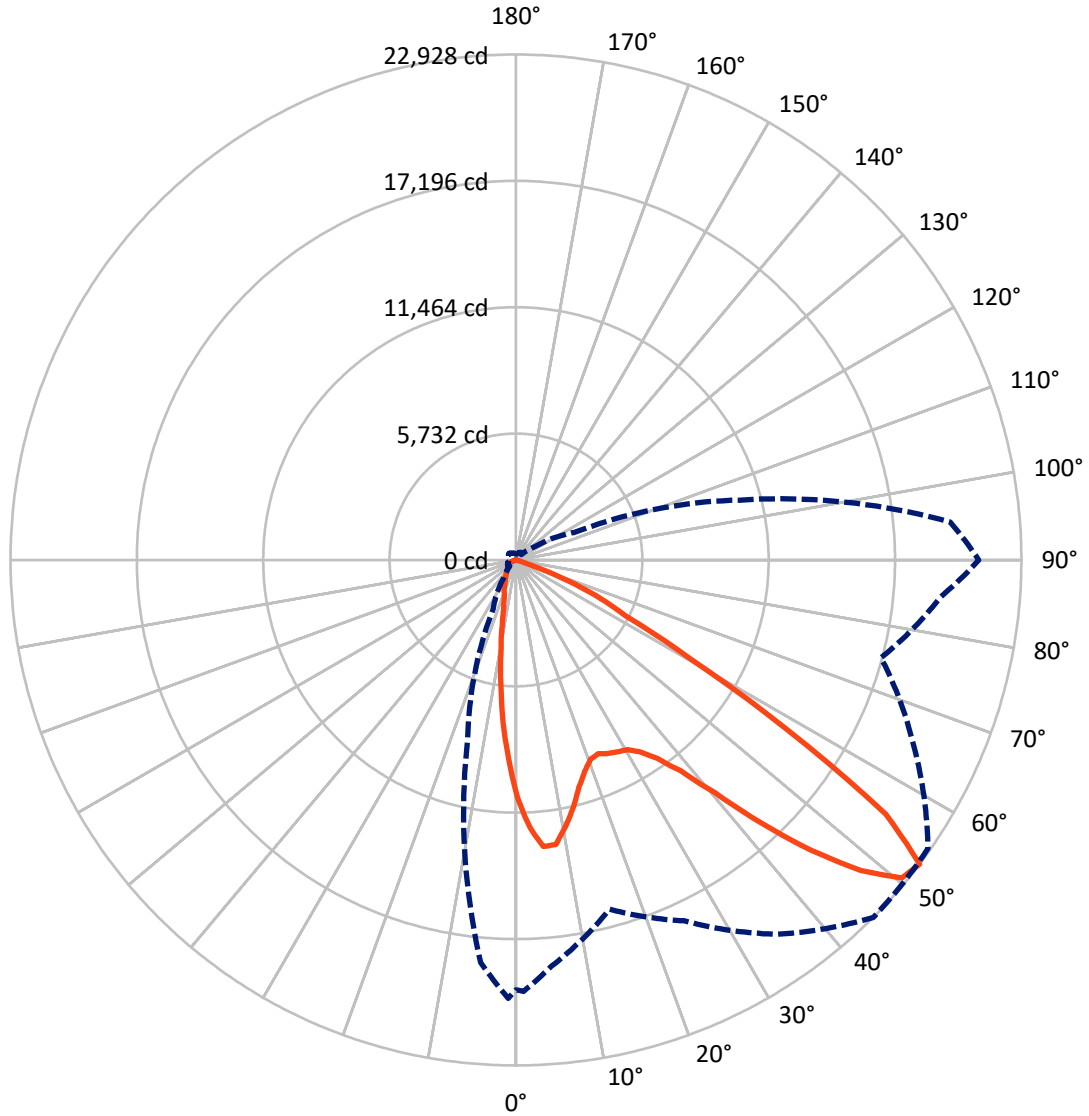
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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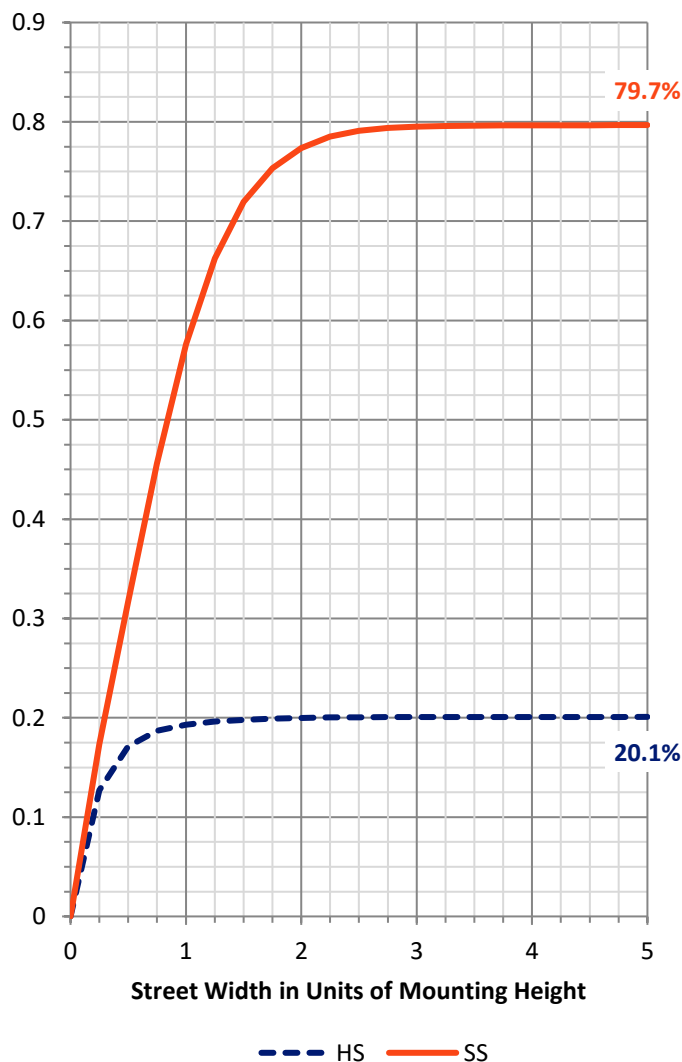
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4346.6 | 0.0 | 4346.6 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 17070.4 | 0.0 | 17070.4 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 21417.0 | 0.0 | 21417.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 792.0 | 3.7 |
| 10°-20° | 1562.5 | 7.3 |
| 20°-30° | 2377.9 | 11.1 |
| 30°-40° | 3554.0 | 16.6 |
| 40°-50° | 5061.3 | 23.6 |
| 50°-60° | 5440.7 | 25.4 |
| 60°-70° | 2410.9 | 11.3 |
| 70°-80° | 195.1 | 0.9 |
| 80°-90° | 22.7 | 0.1 |
| 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° | 21417.0 | 100.0 |
| 0°-180° | 21417.0 | 100.0 |

Coefficient of Utilization

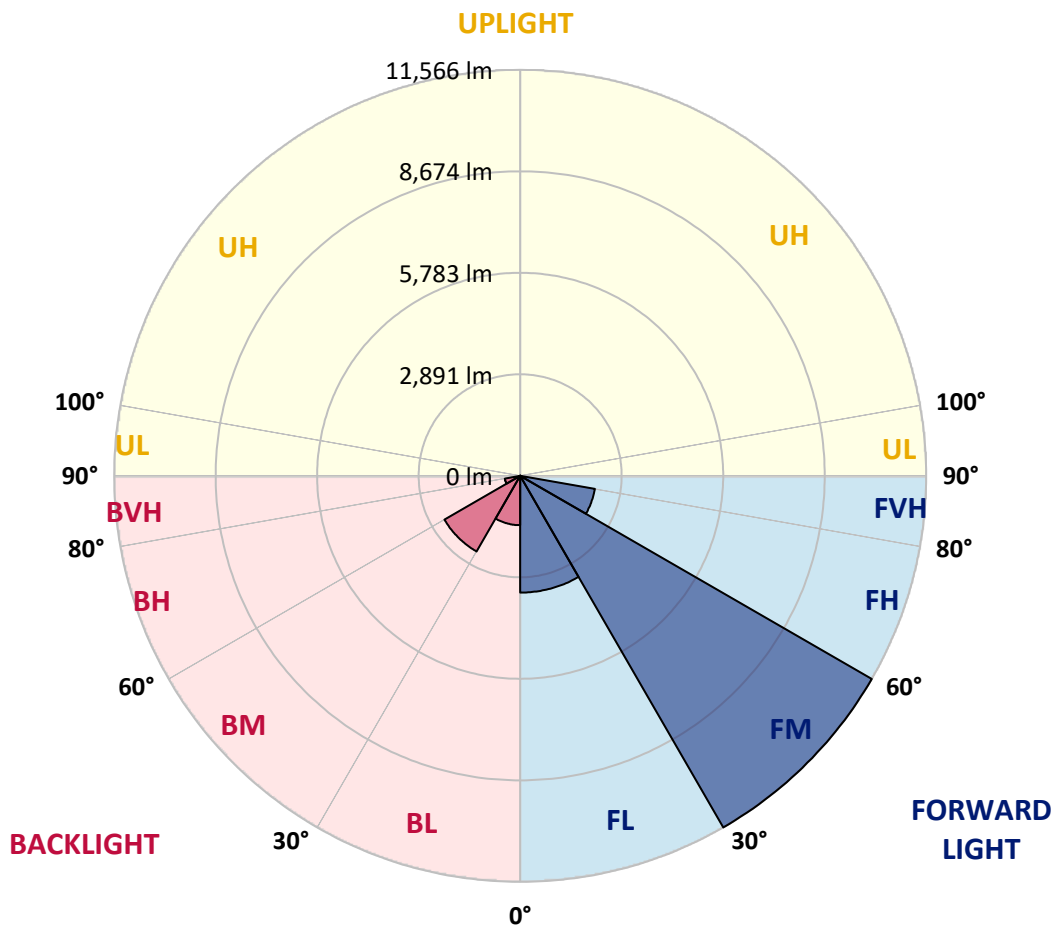


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3326.5 | 15.5 | | | |
| FM (30°-60°) | 11565.8 | 54.0 | | | |
| FH (60°-80°) | 2161.2 | 10.1 | | | G2/5000 |
| FVH (80°-90°) | 16.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1405.9 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2490.1 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 444.7 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 |
| 2.5° | 11491.3 | 11525.0 | 11710.3 | 11942.0 | 12064.1 | 12342.2 | 12148.4 | 12198.9 | 12093.6 | 11722.9 | 11432.3 |
| 5° | 11141.6 | 11137.4 | 11373.3 | 11946.2 | 12489.6 | 13041.4 | 13058.3 | 12763.4 | 12245.3 | 11676.6 | 10863.6 |
| 7.5° | 10088.6 | 10252.8 | 10497.2 | 11411.2 | 12418.0 | 12830.8 | 13028.8 | 12683.4 | 11887.2 | 11074.2 | 10193.9 |
| 10° | 9292.4 | 9376.7 | 9789.5 | 10893.1 | 11630.3 | 12182.1 | 12304.2 | 12106.3 | 11495.5 | 10480.3 | 9494.6 |
| 12.5° | 8833.3 | 8875.4 | 9359.8 | 10286.5 | 11065.8 | 11474.4 | 11533.4 | 11626.1 | 11188.0 | 10236.0 | 9052.3 |
| 15° | 8837.5 | 8871.2 | 9524.1 | 10299.2 | 10606.7 | 10497.2 | 10690.9 | 10686.7 | 10876.3 | 10189.7 | 9423.0 |
| 17.5° | 9473.6 | 9511.5 | 10101.2 | 10484.5 | 10349.7 | 10092.8 | 10080.1 | 10273.9 | 10674.1 | 10766.7 | 9983.2 |
| 20° | 10568.8 | 10657.2 | 11091.1 | 11070.0 | 10311.8 | 9793.7 | 9650.5 | 9797.9 | 10728.8 | 11255.4 | 11112.2 |
| 22.5° | 12043.1 | 12165.2 | 12468.5 | 11887.2 | 10484.5 | 9591.5 | 9545.2 | 9831.6 | 11091.1 | 12346.4 | 12392.7 |
| 25° | 13753.3 | 13959.7 | 14107.1 | 13361.5 | 11099.5 | 9941.1 | 9722.1 | 10214.9 | 11579.7 | 13530.0 | 14022.9 |
| 27.5° | 14886.4 | 15101.2 | 15067.5 | 14001.8 | 11512.3 | 10033.8 | 9848.5 | 10307.6 | 12005.2 | 13812.3 | 14873.8 |
| 30° | 15771.0 | 15901.6 | 16137.5 | 14347.2 | 11925.1 | 10295.0 | 9979.0 | 10699.3 | 12144.2 | 14300.9 | 15901.6 |
| 32.5° | 16803.0 | 16891.5 | 16908.3 | 14958.0 | 12561.2 | 10623.5 | 10383.4 | 11188.0 | 12759.2 | 14768.5 | 16811.5 |
| 35° | 17843.5 | 17974.1 | 17700.3 | 15712.0 | 12952.9 | 11234.3 | 11057.4 | 12034.7 | 13252.0 | 15252.9 | 17814.0 |
| 37.5° | 18972.4 | 19039.8 | 18407.9 | 16023.7 | 13513.2 | 12228.4 | 12131.5 | 12948.7 | 14107.1 | 16129.1 | 18926.0 |
| 40° | 19920.2 | 19983.3 | 19161.9 | 16407.1 | 14102.9 | 13618.5 | 13867.0 | 14692.6 | 15269.7 | 16697.7 | 19482.1 |
| 42.5° | 20446.7 | 20594.1 | 19414.7 | 16196.5 | 15286.6 | 15193.9 | 16297.5 | 16588.2 | 16617.7 | 16857.8 | 19979.1 |
| 45° | 20589.9 | 20522.5 | 18997.7 | 16369.2 | 16322.8 | 17784.5 | 18787.0 | 19170.4 | 17957.2 | 17152.7 | 20105.5 |
| 47.5° | 19928.6 | 20017.0 | 18382.7 | 16217.5 | 17683.4 | 19747.5 | 21044.9 | 21756.7 | 18955.5 | 16895.7 | 19793.8 |
| 50° | 19393.6 | 19279.9 | 18184.7 | 16108.0 | 18049.9 | 20674.2 | 22675.0 | 22835.1 | 19873.8 | 17211.6 | 19452.6 |
| 52.5° | 19498.9 | 19570.5 | 18500.6 | 16398.6 | 18058.3 | 20728.9 | 22927.8 | 22818.2 | 19903.3 | 17140.0 | 19330.4 |
| 55° | 19722.2 | 19406.3 | 18365.8 | 15758.4 | 16849.4 | 19199.8 | 20349.8 | 20181.3 | 18370.0 | 16377.6 | 19031.4 |
| 57.5° | 17017.9 | 17506.5 | 16887.3 | 14069.2 | 13829.1 | 14465.2 | 14444.1 | 14962.2 | 13702.7 | 14094.5 | 17325.4 |
| 60° | 13812.3 | 13896.5 | 14128.2 | 12034.7 | 9570.4 | 9351.4 | 9048.1 | 8719.5 | 9220.8 | 12051.5 | 15758.4 |
| 62.5° | 12148.4 | 12047.3 | 12872.9 | 10947.9 | 6756.6 | 5657.2 | 5606.6 | 5808.8 | 7114.6 | 11495.5 | 14781.1 |
| 65° | 8829.1 | 8955.4 | 9553.6 | 8496.3 | 5071.7 | 4317.6 | 4241.8 | 4840.0 | 5758.3 | 9212.4 | 11280.6 |
| 67.5° | 5391.8 | 5636.1 | 5690.9 | 5240.2 | 3441.5 | 2733.8 | 2624.3 | 3167.7 | 4157.6 | 5960.5 | 6613.4 |
| 70° | 2489.5 | 2784.4 | 3062.4 | 2860.2 | 1992.4 | 1124.7 | 1061.5 | 1331.1 | 2097.7 | 3428.8 | 3508.9 |
| 72.5° | 754.0 | 758.2 | 1061.5 | 1107.8 | 644.5 | 252.7 | 223.3 | 294.9 | 711.9 | 1133.1 | 1192.1 |
| 75° | 54.8 | 59.0 | 143.2 | 164.3 | 122.2 | 63.2 | 67.4 | 80.0 | 151.6 | 252.7 | 189.6 |
| 77.5° | 4.2 | 4.2 | 4.2 | 21.1 | 37.9 | 42.1 | 54.8 | 63.2 | 80.0 | 92.7 | 84.2 |
| 80° | 4.2 | 0.0 | 4.2 | 16.8 | 29.5 | 42.1 | 50.5 | 59.0 | 63.2 | 71.6 | 63.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 12.6 | 29.5 | 42.1 | 46.3 | 63.2 | 71.6 | 84.2 | 71.6 |
| 85° | 0.0 | 0.0 | 0.0 | 12.6 | 29.5 | 46.3 | 42.1 | 21.1 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 |
| 2.5° | 11482.8 | 11318.6 | 10943.7 | 10754.1 | 10307.6 | 10244.4 | 9806.3 | 9734.7 | 9587.3 | 9507.3 | 9313.5 |
| 5° | 10505.6 | 10307.6 | 9696.8 | 9182.9 | 8584.8 | 8167.7 | 7847.6 | 7556.9 | 7388.4 | 7232.6 | 7304.2 |
| 7.5° | 9709.4 | 9132.4 | 8454.2 | 7594.9 | 6904.0 | 6457.5 | 5968.9 | 5568.7 | 5332.8 | 5172.8 | 5210.7 |
| 10° | 8875.4 | 8500.5 | 7556.9 | 6592.3 | 5758.3 | 5442.3 | 5059.0 | 4751.5 | 4418.7 | 4132.3 | 3997.5 |
| 12.5° | 8614.2 | 8058.2 | 6874.5 | 5893.1 | 5261.2 | 4953.7 | 4515.6 | 4161.8 | 3736.3 | 3386.7 | 3264.6 |
| 15° | 8660.6 | 8125.6 | 6689.2 | 5640.3 | 4894.7 | 4364.0 | 3841.7 | 3403.6 | 2936.0 | 2691.7 | 2565.3 |
| 17.5° | 9414.6 | 8487.9 | 6811.4 | 5374.9 | 4385.0 | 3647.9 | 3003.4 | 2447.4 | 2097.7 | 1845.0 | 1790.2 |
| 20° | 10341.3 | 9271.4 | 7072.5 | 5181.2 | 3968.0 | 2902.3 | 2194.6 | 1714.4 | 1423.8 | 1381.6 | 1369.0 |
| 22.5° | 11697.7 | 10551.9 | 7632.8 | 5050.6 | 3458.3 | 2262.0 | 1503.8 | 1246.9 | 1166.8 | 1158.4 | 1162.6 |
| 25° | 13593.2 | 12156.8 | 8243.6 | 4941.1 | 3075.0 | 1743.9 | 1230.0 | 1057.3 | 1032.0 | 1019.4 | 1040.4 |
| 27.5° | 14414.6 | 13125.7 | 8567.9 | 4705.2 | 2725.4 | 1571.2 | 1213.2 | 1048.9 | 977.3 | 956.2 | 968.8 |
| 30° | 15429.8 | 13770.1 | 9077.6 | 4300.8 | 2211.5 | 1293.2 | 1133.1 | 1141.5 | 1107.8 | 1002.5 | 968.8 |
| 32.5° | 16777.8 | 14574.7 | 9334.5 | 4014.4 | 1975.6 | 1069.9 | 829.8 | 762.4 | 850.9 | 867.7 | 897.2 |
| 35° | 17641.3 | 15391.9 | 9465.1 | 3845.9 | 1853.4 | 914.1 | 703.5 | 640.3 | 619.2 | 623.4 | 640.3 |
| 37.5° | 19246.2 | 16495.5 | 9629.4 | 3668.9 | 1760.8 | 796.1 | 636.1 | 577.1 | 547.6 | 547.6 | 564.5 |
| 40° | 20206.6 | 17371.7 | 9852.7 | 3572.1 | 1668.1 | 724.5 | 577.1 | 526.5 | 501.3 | 501.3 | 509.7 |
| 42.5° | 20446.7 | 17805.6 | 9776.8 | 3538.4 | 1562.8 | 707.7 | 526.5 | 488.6 | 459.1 | 454.9 | 450.7 |
| 45° | 20876.4 | 18466.9 | 9789.5 | 3500.5 | 1453.3 | 644.5 | 497.1 | 454.9 | 412.8 | 408.6 | 404.4 |
| 47.5° | 21348.1 | 18942.9 | 9814.8 | 3353.0 | 1347.9 | 539.2 | 518.1 | 421.2 | 370.7 | 362.3 | 362.3 |
| 50° | 20943.8 | 19322.0 | 10033.8 | 3205.6 | 1213.2 | 438.1 | 509.7 | 396.0 | 328.6 | 315.9 | 320.1 |
| 52.5° | 20994.3 | 19768.5 | 10497.2 | 2999.2 | 1044.7 | 349.6 | 412.8 | 374.9 | 299.1 | 278.0 | 282.2 |
| 55° | 20185.5 | 19296.7 | 10560.3 | 2780.1 | 817.2 | 269.6 | 315.9 | 328.6 | 252.7 | 244.3 | 244.3 |
| 57.5° | 17375.9 | 16339.7 | 9317.7 | 2253.6 | 539.2 | 223.3 | 227.5 | 286.4 | 219.0 | 210.6 | 214.8 |
| 60° | 14869.6 | 13117.2 | 7498.0 | 1487.0 | 337.0 | 176.9 | 164.3 | 290.7 | 193.8 | 189.6 | 202.2 |
| 62.5° | 13555.3 | 10779.4 | 5686.7 | 922.5 | 231.7 | 134.8 | 113.7 | 235.9 | 168.5 | 168.5 | 185.3 |
| 65° | 9793.7 | 7241.0 | 3306.7 | 484.4 | 164.3 | 105.3 | 84.2 | 134.8 | 139.0 | 143.2 | 151.6 |
| 67.5° | 6065.8 | 3656.3 | 1394.3 | 235.9 | 109.5 | 71.6 | 54.8 | 84.2 | 92.7 | 92.7 | 101.1 |
| 70° | 2995.0 | 1457.5 | 463.4 | 134.8 | 84.2 | 59.0 | 37.9 | 46.3 | 46.3 | 42.1 | 46.3 |
| 72.5° | 926.7 | 438.1 | 117.9 | 84.2 | 59.0 | 37.9 | 21.1 | 16.8 | 8.4 | 0.0 | 4.2 |
| 75° | 105.3 | 84.2 | 75.8 | 59.0 | 37.9 | 16.8 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 63.2 | 71.6 | 71.6 | 59.0 | 37.9 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 50.5 | 54.8 | 59.0 | 54.8 | 33.7 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 63.2 | 71.6 | 80.0 | 71.6 | 46.3 | 21.1 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 4.2 | 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-SA5D-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 |
| 2.5° | 9233.5 | 9140.8 | 9271.4 | 9077.6 | 9073.4 | 9077.6 | 9022.8 | 8972.3 | 9052.3 | 9267.1 | 9288.2 |
| 5° | 7047.2 | 7245.2 | 7308.4 | 7514.8 | 7401.1 | 7232.6 | 7266.3 | 7152.6 | 7430.6 | 7552.7 | 7455.8 |
| 7.5° | 5130.6 | 5118.0 | 5543.4 | 5568.7 | 5623.5 | 5627.7 | 5619.3 | 5396.0 | 5168.5 | 5219.1 | 5370.7 |
| 10° | 3980.7 | 3765.8 | 3972.2 | 3951.2 | 4086.0 | 4048.1 | 4102.8 | 3862.7 | 3942.8 | 3942.8 | 4039.6 |
| 12.5° | 3243.5 | 3016.0 | 2978.1 | 2923.4 | 2978.1 | 2999.2 | 3020.2 | 2973.9 | 3108.7 | 3171.9 | 3239.3 |
| 15° | 2476.9 | 2350.5 | 2316.8 | 2211.5 | 2228.3 | 2287.3 | 2337.8 | 2358.9 | 2316.8 | 2413.7 | 2422.1 |
| 17.5° | 1798.7 | 1794.5 | 1815.5 | 1811.3 | 1794.5 | 1781.8 | 1777.6 | 1722.8 | 1706.0 | 1714.4 | 1748.1 |
| 20° | 1364.8 | 1398.5 | 1470.1 | 1541.7 | 1579.6 | 1533.3 | 1470.1 | 1377.4 | 1339.5 | 1347.9 | 1352.2 |
| 22.5° | 1166.8 | 1217.4 | 1314.3 | 1394.3 | 1432.2 | 1347.9 | 1234.2 | 1154.2 | 1137.3 | 1133.1 | 1128.9 |
| 25° | 1057.3 | 1116.3 | 1187.9 | 1213.2 | 1208.9 | 1158.4 | 1074.1 | 1040.4 | 1032.0 | 1023.6 | 985.7 |
| 27.5° | 998.3 | 1019.4 | 1032.0 | 1061.5 | 1074.1 | 1040.4 | 1019.4 | 968.8 | 960.4 | 960.4 | 935.1 |
| 30° | 964.6 | 952.0 | 968.8 | 947.8 | 964.6 | 939.4 | 943.6 | 943.6 | 922.5 | 930.9 | 930.9 |
| 32.5° | 897.2 | 901.4 | 901.4 | 859.3 | 872.0 | 842.5 | 872.0 | 897.2 | 901.4 | 905.7 | 939.4 |
| 35° | 657.1 | 732.9 | 770.9 | 770.9 | 783.5 | 762.4 | 758.2 | 728.7 | 690.8 | 652.9 | 636.1 |
| 37.5° | 577.1 | 606.6 | 657.1 | 686.6 | 707.7 | 690.8 | 652.9 | 606.6 | 585.5 | 568.7 | 551.8 |
| 40° | 513.9 | 539.2 | 572.9 | 606.6 | 648.7 | 627.6 | 568.7 | 547.6 | 522.3 | 522.3 | 505.5 |
| 42.5° | 463.4 | 476.0 | 497.1 | 547.6 | 593.9 | 551.8 | 509.7 | 492.8 | 480.2 | 476.0 | 471.8 |
| 45° | 417.0 | 421.2 | 442.3 | 484.4 | 539.2 | 497.1 | 454.9 | 433.9 | 438.1 | 442.3 | 438.1 |
| 47.5° | 374.9 | 383.3 | 396.0 | 446.5 | 480.2 | 459.1 | 412.8 | 400.2 | 400.2 | 400.2 | 404.4 |
| 50° | 324.4 | 345.4 | 370.7 | 412.8 | 438.1 | 425.4 | 387.5 | 370.7 | 362.3 | 362.3 | 366.5 |
| 52.5° | 290.7 | 307.5 | 341.2 | 391.7 | 425.4 | 404.4 | 366.5 | 341.2 | 324.4 | 320.1 | 328.6 |
| 55° | 252.7 | 282.2 | 337.0 | 374.9 | 421.2 | 400.2 | 358.0 | 328.6 | 299.1 | 294.9 | 294.9 |
| 57.5° | 227.5 | 273.8 | 324.4 | 370.7 | 408.6 | 391.7 | 358.0 | 320.1 | 282.2 | 278.0 | 278.0 |
| 60° | 214.8 | 265.4 | 315.9 | 358.0 | 408.6 | 383.3 | 353.8 | 311.7 | 269.6 | 269.6 | 265.4 |
| 62.5° | 202.2 | 248.5 | 299.1 | 341.2 | 391.7 | 370.7 | 341.2 | 299.1 | 257.0 | 257.0 | 248.5 |
| 65° | 168.5 | 214.8 | 248.5 | 286.4 | 341.2 | 320.1 | 290.7 | 261.2 | 227.5 | 219.0 | 223.3 |
| 67.5° | 117.9 | 147.4 | 181.1 | 219.0 | 252.7 | 244.3 | 231.7 | 210.6 | 181.1 | 176.9 | 172.7 |
| 70° | 59.0 | 80.0 | 109.5 | 147.4 | 176.9 | 168.5 | 160.1 | 143.2 | 126.4 | 122.2 | 122.2 |
| 72.5° | 8.4 | 25.3 | 46.3 | 67.4 | 92.7 | 96.9 | 92.7 | 88.5 | 84.2 | 80.0 | 84.2 |
| 75° | 0.0 | 0.0 | 0.0 | 16.8 | 37.9 | 46.3 | 54.8 | 63.2 | 63.2 | 54.8 | 67.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 21.1 | 42.1 | 54.8 | 67.4 | 59.0 | 80.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 25.3 | 42.1 | 59.0 | 67.4 | 59.0 | 84.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 29.5 | 42.1 | 54.8 | 63.2 | 59.0 | 75.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 25.3 | 16.8 | 8.4 | 4.2 | 4.2 | 12.6 |
| 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° | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 | 10859.4 |
| 2.5° | 9406.2 | 9705.2 | 10025.4 | 10147.5 | 10526.6 | 10813.1 | 11006.8 | 11423.9 | 11487.1 | 11491.3 |
| 5° | 7556.9 | 7708.6 | 8256.2 | 8513.1 | 9077.6 | 9515.7 | 9983.2 | 10657.2 | 11107.9 | 11141.6 |
| 7.5° | 5370.7 | 5792.0 | 6023.6 | 6693.4 | 7388.4 | 8075.1 | 8770.1 | 9553.6 | 10075.9 | 10088.6 |
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| 12.5° | 3479.4 | 3959.6 | 4431.4 | 4949.5 | 5396.0 | 5922.6 | 6920.9 | 8134.0 | 8572.1 | 8833.3 |
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| 17.5° | 1975.6 | 2367.3 | 2881.2 | 3454.1 | 4212.3 | 5210.7 | 6676.6 | 8631.1 | 9326.1 | 9473.6 |
| 20° | 1419.6 | 1647.0 | 2051.4 | 2717.0 | 3681.6 | 4886.3 | 6727.1 | 9258.7 | 10316.0 | 10568.8 |
| 22.5° | 1124.7 | 1217.4 | 1482.7 | 2072.5 | 3087.6 | 4545.1 | 7085.2 | 10459.2 | 11676.6 | 12043.1 |
| 25° | 977.3 | 1027.8 | 1154.2 | 1634.4 | 2712.7 | 4511.4 | 7658.0 | 11899.9 | 13487.9 | 13753.3 |
| 27.5° | 943.6 | 952.0 | 1061.5 | 1499.6 | 2510.6 | 4288.2 | 7877.1 | 12923.5 | 14616.8 | 14886.4 |
| 30° | 994.1 | 1128.9 | 1137.3 | 1267.9 | 2135.7 | 3845.9 | 7990.8 | 13913.4 | 15573.0 | 15771.0 |
| 32.5° | 859.3 | 817.2 | 846.7 | 981.5 | 1878.7 | 3588.9 | 8205.6 | 14776.9 | 16664.0 | 16803.0 |
| 35° | 598.2 | 627.6 | 695.0 | 850.9 | 1642.8 | 3319.3 | 8260.4 | 15728.9 | 17700.3 | 17843.5 |
| 37.5° | 551.8 | 568.7 | 623.4 | 724.5 | 1444.8 | 3167.7 | 8184.6 | 16423.9 | 18774.4 | 18972.4 |
| 40° | 513.9 | 535.0 | 564.5 | 657.1 | 1297.4 | 2999.2 | 8079.3 | 17051.6 | 19431.5 | 19920.2 |
| 42.5° | 484.4 | 501.3 | 526.5 | 627.6 | 1171.0 | 2830.7 | 7931.8 | 17936.1 | 20021.3 | 20446.7 |
| 45° | 450.7 | 476.0 | 505.5 | 610.8 | 1099.4 | 2717.0 | 7822.3 | 17881.4 | 20362.5 | 20589.9 |
| 47.5° | 417.0 | 459.1 | 492.8 | 568.7 | 1078.4 | 2662.2 | 7868.7 | 17675.0 | 20084.4 | 19928.6 |
| 50° | 383.3 | 438.1 | 497.1 | 471.8 | 1027.8 | 2552.7 | 7923.4 | 17957.2 | 19423.1 | 19393.6 |
| 52.5° | 353.8 | 417.0 | 463.4 | 387.5 | 914.1 | 2447.4 | 8454.2 | 18327.9 | 19890.7 | 19498.9 |
| 55° | 311.7 | 374.9 | 370.7 | 311.7 | 741.4 | 2367.3 | 8871.2 | 18336.3 | 19574.7 | 19722.2 |
| 57.5° | 282.2 | 332.8 | 290.7 | 261.2 | 547.6 | 1979.8 | 8193.0 | 15375.0 | 16756.7 | 17017.9 |
| 60° | 261.2 | 324.4 | 219.0 | 206.4 | 358.0 | 1428.0 | 7152.6 | 11908.3 | 13319.4 | 13812.3 |
| 62.5° | 240.1 | 307.5 | 172.7 | 168.5 | 248.5 | 1015.2 | 5880.4 | 9966.4 | 11478.6 | 12148.4 |
| 65° | 210.6 | 219.0 | 139.0 | 130.6 | 176.9 | 547.6 | 3580.5 | 6861.9 | 8580.5 | 8829.1 |
| 67.5° | 172.7 | 168.5 | 113.7 | 105.3 | 117.9 | 265.4 | 1579.6 | 3437.3 | 4974.8 | 5391.8 |
| 70° | 139.0 | 139.0 | 96.9 | 84.2 | 84.2 | 122.2 | 412.8 | 1369.0 | 2249.4 | 2489.5 |
| 72.5° | 101.1 | 105.3 | 75.8 | 67.4 | 63.2 | 59.0 | 67.4 | 273.8 | 589.7 | 754.0 |
| 75° | 88.5 | 92.7 | 75.8 | 59.0 | 46.3 | 37.9 | 29.5 | 25.3 | 33.7 | 54.8 |
| 77.5° | 96.9 | 96.9 | 80.0 | 54.8 | 42.1 | 29.5 | 16.8 | 8.4 | 8.4 | 4.2 |
| 80° | 122.2 | 126.4 | 105.3 | 71.6 | 50.5 | 33.7 | 21.1 | 8.4 | 4.2 | 4.2 |
| 82.5° | 130.6 | 143.2 | 117.9 | 88.5 | 63.2 | 37.9 | 21.1 | 4.2 | 0.0 | 0.0 |
| 85° | 33.7 | 54.8 | 92.7 | 80.0 | 63.2 | 37.9 | 21.1 | 4.2 | 0.0 | 0.0 |
| 87.5° | 0.0 | 4.2 | 12.6 | 12.6 | 16.8 | 16.8 | 12.6 | 4.2 | 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 |

(END OF REPORT)