

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: P531225

Luminaire Tested: **GALN-SA6C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531225
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-SA6C-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 20990 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

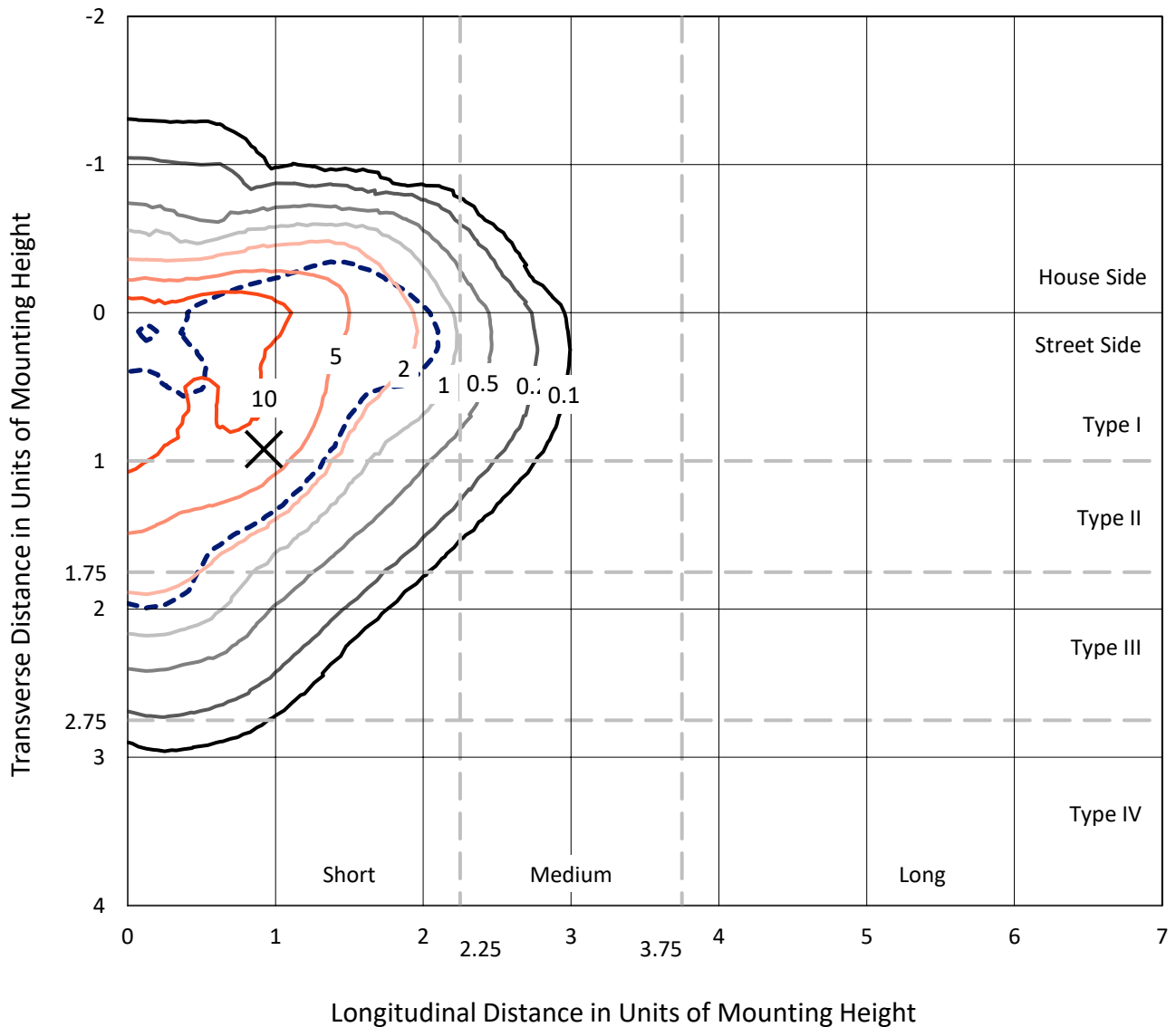
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531225
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Iso-Footcandle Lines of Horizontal Illumination

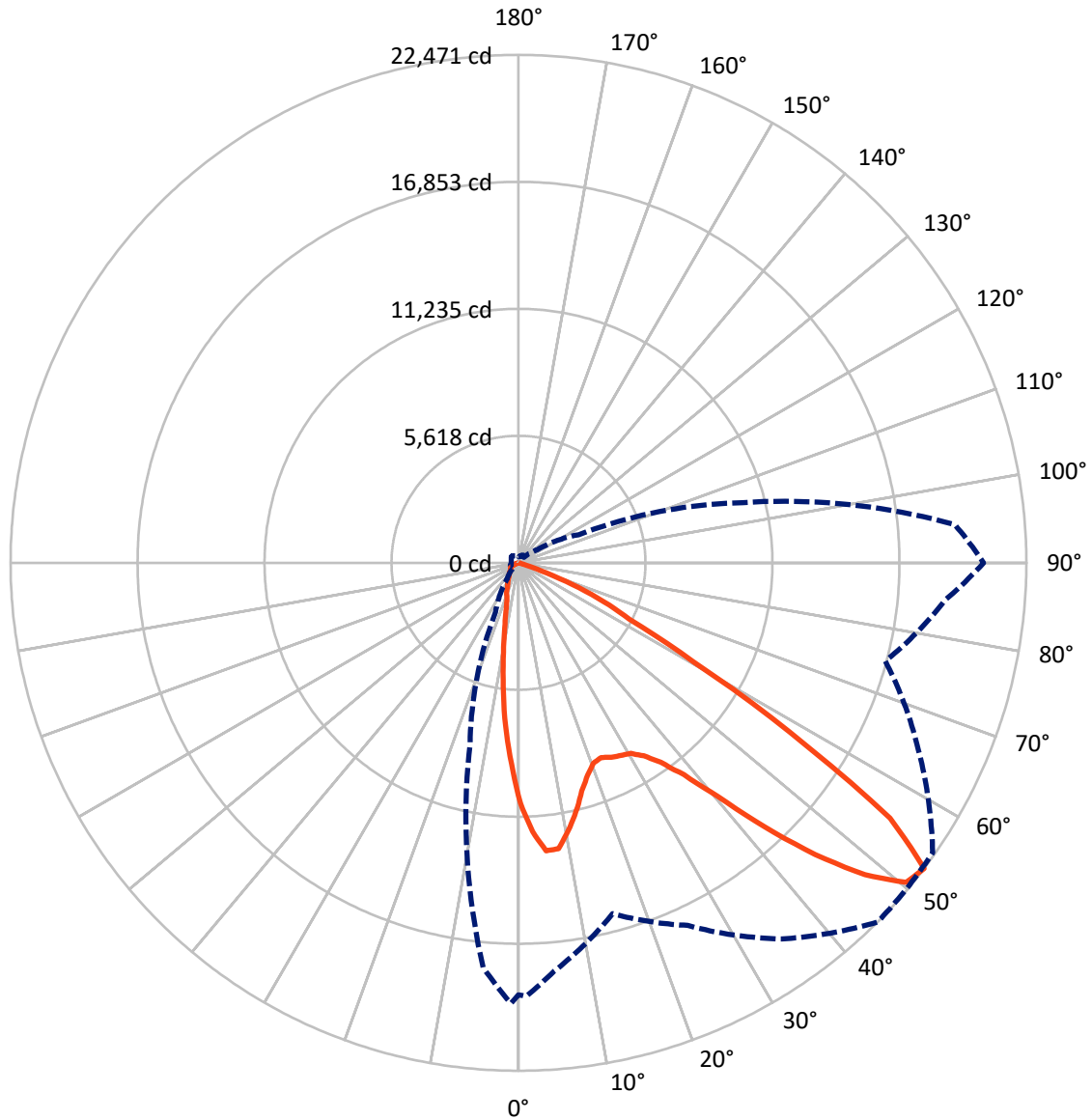
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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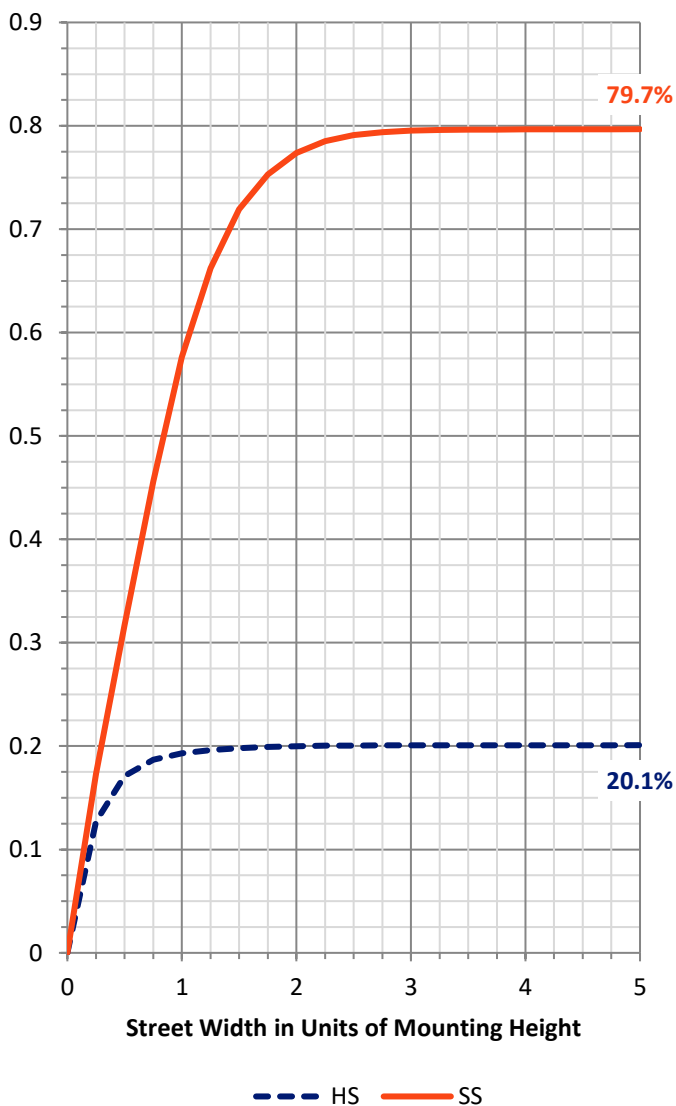
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4259.9 | 0.0 | 4259.9 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 16730.1 | 0.0 | 16730.1 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 20990.0 | 0.0 | 20990.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 776.2 | 3.7 |
| 10°-20° | 1531.4 | 7.3 |
| 20°-30° | 2330.5 | 11.1 |
| 30°-40° | 3483.2 | 16.6 |
| 40°-50° | 4960.3 | 23.6 |
| 50°-60° | 5332.2 | 25.4 |
| 60°-70° | 2362.8 | 11.3 |
| 70°-80° | 191.2 | 0.9 |
| 80°-90° | 22.3 | 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° | 20990.0 | 100.0 |
| 0°-180° | 20990.0 | 100.0 |

Coefficient of Utilization



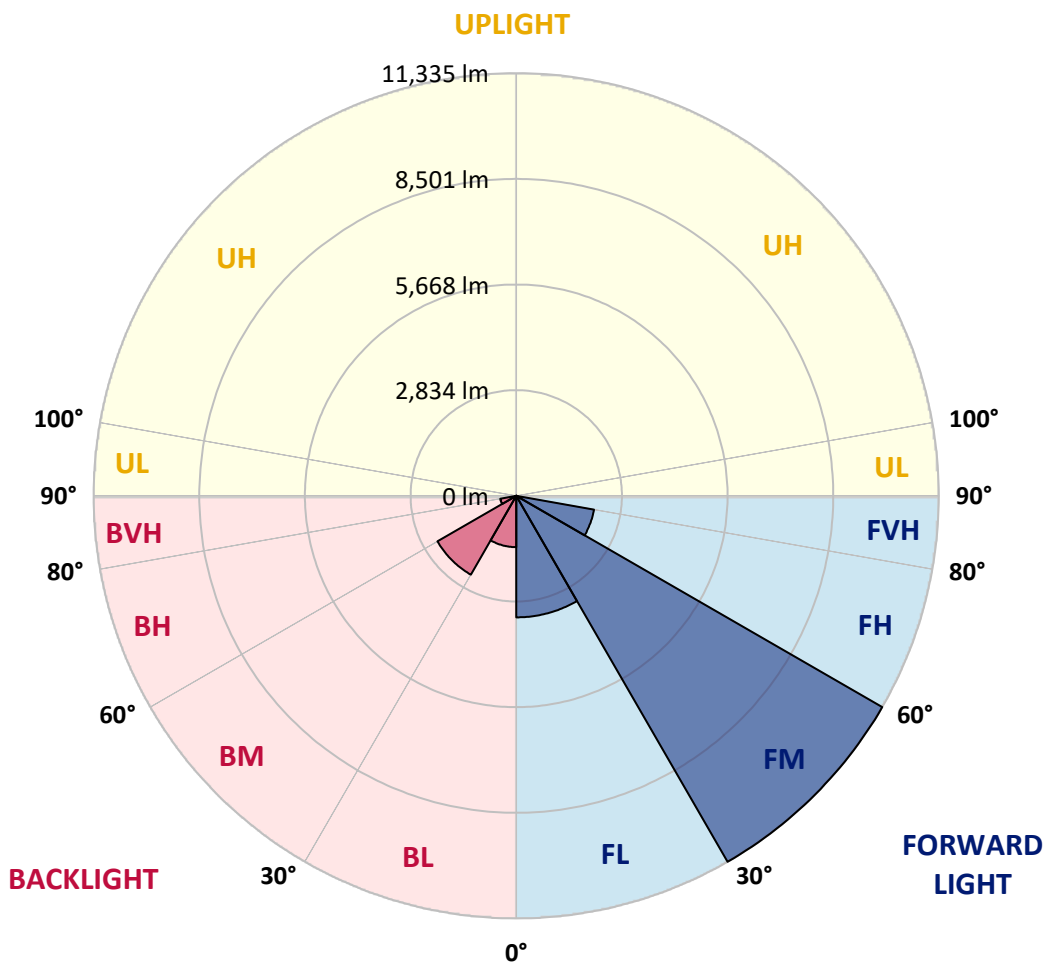
REPORT NUMBER: P531225
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3260.2 | 15.5 | | | |
| FM (30°-60°) | 11335.3 | 54.0 | | | |
| FH (60°-80°) | 2118.1 | 10.1 | | | G2/5000 |
| FVH (80°-90°) | 16.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1377.8 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2440.5 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 435.9 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.8 | 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





REPORT NUMBER: P531225

CATALOG NUMBER: GALN-SA6C-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 |
| 2.5° | 11262.2 | 11295.2 | 11476.8 | 11703.9 | 11823.6 | 12096.1 | 11906.2 | 11955.7 | 11852.5 | 11489.2 | 11204.4 |
| 5° | 10919.5 | 10915.4 | 11146.6 | 11708.0 | 12240.6 | 12781.4 | 12797.9 | 12508.9 | 12001.1 | 11443.8 | 10647.0 |
| 7.5° | 9887.4 | 10048.4 | 10287.9 | 11183.7 | 12170.4 | 12575.0 | 12769.0 | 12430.5 | 11650.2 | 10853.5 | 9990.6 |
| 10° | 9107.2 | 9189.7 | 9594.3 | 10675.9 | 11398.4 | 11939.2 | 12058.9 | 11864.9 | 11266.3 | 10271.4 | 9305.3 |
| 12.5° | 8657.2 | 8698.4 | 9173.2 | 10081.4 | 10845.2 | 11245.6 | 11303.4 | 11394.3 | 10964.9 | 10031.9 | 8871.8 |
| 15° | 8661.3 | 8694.3 | 9334.2 | 10093.8 | 10395.2 | 10287.9 | 10477.8 | 10473.6 | 10659.4 | 9986.5 | 9235.1 |
| 17.5° | 9284.7 | 9321.8 | 9899.8 | 10275.5 | 10143.4 | 9891.5 | 9879.2 | 10069.1 | 10461.3 | 10552.1 | 9784.2 |
| 20° | 10358.0 | 10444.7 | 10870.0 | 10849.3 | 10106.2 | 9598.4 | 9458.1 | 9602.6 | 10514.9 | 11031.0 | 10890.6 |
| 22.5° | 11803.0 | 11922.7 | 12219.9 | 11650.2 | 10275.5 | 9400.3 | 9354.9 | 9635.6 | 10870.0 | 12100.2 | 12145.6 |
| 25° | 13479.1 | 13681.4 | 13825.9 | 13095.2 | 10878.2 | 9742.9 | 9528.2 | 10011.3 | 11348.9 | 13260.3 | 13743.3 |
| 27.5° | 14589.6 | 14800.2 | 14767.1 | 13722.7 | 11282.8 | 9833.7 | 9652.1 | 10102.1 | 11765.8 | 13536.9 | 14577.2 |
| 30° | 15456.6 | 15584.5 | 15815.7 | 14061.2 | 11687.4 | 10089.7 | 9780.1 | 10486.0 | 11902.1 | 14015.8 | 15584.5 |
| 32.5° | 16468.0 | 16554.7 | 16571.2 | 14659.8 | 12310.8 | 10411.7 | 10176.4 | 10964.9 | 12504.8 | 14474.0 | 16476.3 |
| 35° | 17487.7 | 17615.7 | 17347.4 | 15398.8 | 12694.7 | 11010.3 | 10836.9 | 11794.7 | 12987.8 | 14948.8 | 17458.8 |
| 37.5° | 18594.1 | 18660.2 | 18040.9 | 15704.3 | 13243.8 | 11984.6 | 11889.7 | 12690.6 | 13825.9 | 15807.5 | 18548.7 |
| 40° | 19523.0 | 19584.9 | 18779.9 | 16080.0 | 13821.7 | 13347.0 | 13590.6 | 14399.7 | 14965.3 | 16364.8 | 19093.7 |
| 42.5° | 20039.0 | 20183.5 | 19027.6 | 15873.5 | 14981.8 | 14891.0 | 15972.6 | 16257.5 | 16286.4 | 16521.7 | 19580.8 |
| 45° | 20179.4 | 20113.4 | 18618.9 | 16042.8 | 15997.4 | 17429.9 | 18412.5 | 18788.2 | 17599.2 | 16810.7 | 19704.7 |
| 47.5° | 19531.3 | 19618.0 | 18016.2 | 15894.2 | 17330.8 | 19353.7 | 20625.3 | 21323.0 | 18577.6 | 16558.8 | 19399.2 |
| 50° | 19007.0 | 18895.5 | 17822.1 | 15786.8 | 17690.0 | 20262.0 | 22222.9 | 22379.8 | 19477.6 | 16868.5 | 19064.8 |
| 52.5° | 19110.2 | 19180.3 | 18131.7 | 16071.7 | 17698.3 | 20315.6 | 22470.6 | 22363.3 | 19506.5 | 16798.3 | 18945.0 |
| 55° | 19329.0 | 19019.3 | 17999.6 | 15444.2 | 16513.4 | 18817.1 | 19944.1 | 19779.0 | 18003.8 | 16051.1 | 18651.9 |
| 57.5° | 16678.6 | 17157.5 | 16550.6 | 13788.7 | 13553.4 | 14176.8 | 14156.1 | 14663.9 | 13429.5 | 13813.5 | 16979.9 |
| 60° | 13536.9 | 13619.5 | 13846.5 | 11794.7 | 9379.6 | 9165.0 | 8867.7 | 8545.7 | 9037.0 | 11811.2 | 15444.2 |
| 62.5° | 11906.2 | 11807.1 | 12616.3 | 10729.6 | 6621.9 | 5544.4 | 5494.8 | 5693.0 | 6972.8 | 11266.3 | 14486.4 |
| 65° | 8653.0 | 8776.9 | 9363.1 | 8326.9 | 4970.5 | 4231.6 | 4157.3 | 4743.5 | 5643.5 | 9028.7 | 11055.7 |
| 67.5° | 5284.3 | 5523.7 | 5577.4 | 5135.7 | 3372.9 | 2679.3 | 2572.0 | 3104.5 | 4074.7 | 5841.6 | 6481.5 |
| 70° | 2439.9 | 2728.8 | 3001.3 | 2803.2 | 1952.7 | 1102.3 | 1040.3 | 1304.6 | 2055.9 | 3360.5 | 3438.9 |
| 72.5° | 739.0 | 743.1 | 1040.3 | 1085.8 | 631.6 | 247.7 | 218.8 | 289.0 | 697.7 | 1110.5 | 1168.3 |
| 75° | 53.7 | 57.8 | 140.4 | 161.0 | 119.7 | 61.9 | 66.1 | 78.4 | 148.6 | 247.7 | 185.8 |
| 77.5° | 4.1 | 4.1 | 4.1 | 20.6 | 37.2 | 41.3 | 53.7 | 61.9 | 78.4 | 90.8 | 82.6 |
| 80° | 4.1 | 0.0 | 4.1 | 16.5 | 28.9 | 41.3 | 49.5 | 57.8 | 61.9 | 70.2 | 61.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 12.4 | 28.9 | 41.3 | 45.4 | 61.9 | 70.2 | 82.6 | 70.2 |
| 85° | 0.0 | 0.0 | 0.0 | 12.4 | 28.9 | 45.4 | 41.3 | 20.6 | 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° | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 |
| 2.5° | 11253.9 | 11092.9 | 10725.5 | 10539.7 | 10102.1 | 10040.2 | 9610.8 | 9540.6 | 9396.1 | 9317.7 | 9127.8 |
| 5° | 10296.1 | 10102.1 | 9503.5 | 8999.8 | 8413.6 | 8004.9 | 7691.1 | 7406.3 | 7241.1 | 7088.4 | 7158.6 |
| 7.5° | 9515.9 | 8950.3 | 8285.6 | 7443.4 | 6766.4 | 6328.8 | 5849.9 | 5457.7 | 5226.5 | 5069.6 | 5106.8 |
| 10° | 8698.4 | 8331.0 | 7406.3 | 6460.9 | 5643.5 | 5333.8 | 4958.2 | 4656.8 | 4330.6 | 4049.9 | 3917.8 |
| 12.5° | 8442.5 | 7897.5 | 6737.5 | 5775.6 | 5156.3 | 4854.9 | 4425.6 | 4078.8 | 3661.9 | 3319.2 | 3199.5 |
| 15° | 8487.9 | 7963.6 | 6555.8 | 5527.9 | 4797.2 | 4277.0 | 3765.1 | 3335.7 | 2877.5 | 2638.0 | 2514.2 |
| 17.5° | 9226.9 | 8318.6 | 6675.6 | 5267.8 | 4297.6 | 3575.2 | 2943.5 | 2398.6 | 2055.9 | 1808.2 | 1754.6 |
| 20° | 10135.1 | 9086.5 | 6931.5 | 5077.9 | 3888.9 | 2844.4 | 2150.9 | 1680.2 | 1395.4 | 1354.1 | 1341.7 |
| 22.5° | 11464.4 | 10341.5 | 7480.6 | 4949.9 | 3389.4 | 2216.9 | 1473.8 | 1222.0 | 1143.6 | 1135.3 | 1139.4 |
| 25° | 13322.2 | 11914.4 | 8079.2 | 4842.6 | 3013.7 | 1709.1 | 1205.5 | 1036.2 | 1011.4 | 999.1 | 1019.7 |
| 27.5° | 14127.2 | 12864.0 | 8397.1 | 4611.4 | 2671.0 | 1539.9 | 1189.0 | 1028.0 | 957.8 | 937.1 | 949.5 |
| 30° | 15122.2 | 13495.6 | 8896.6 | 4215.1 | 2167.4 | 1267.4 | 1110.5 | 1118.8 | 1085.8 | 982.5 | 949.5 |
| 32.5° | 16443.2 | 14284.1 | 9148.4 | 3934.3 | 1936.2 | 1048.6 | 813.3 | 747.2 | 833.9 | 850.4 | 879.3 |
| 35° | 17289.6 | 15085.0 | 9276.4 | 3769.2 | 1816.5 | 895.9 | 689.4 | 627.5 | 606.9 | 611.0 | 627.5 |
| 37.5° | 18862.5 | 16166.6 | 9437.4 | 3595.8 | 1725.7 | 780.3 | 623.4 | 565.6 | 536.7 | 536.7 | 553.2 |
| 40° | 19803.7 | 17025.3 | 9656.2 | 3500.8 | 1634.8 | 710.1 | 565.6 | 516.0 | 491.3 | 491.3 | 499.5 |
| 42.5° | 20039.0 | 17450.6 | 9581.9 | 3467.8 | 1531.6 | 693.6 | 516.0 | 478.9 | 450.0 | 445.9 | 441.7 |
| 45° | 20460.1 | 18098.7 | 9594.3 | 3430.7 | 1424.3 | 631.6 | 487.1 | 445.9 | 404.6 | 400.5 | 396.3 |
| 47.5° | 20922.5 | 18565.2 | 9619.1 | 3286.2 | 1321.1 | 528.4 | 507.8 | 412.8 | 363.3 | 355.0 | 355.0 |
| 50° | 20526.2 | 18936.8 | 9833.7 | 3141.7 | 1189.0 | 429.3 | 499.5 | 388.1 | 322.0 | 309.6 | 313.8 |
| 52.5° | 20575.7 | 19374.4 | 10287.9 | 2939.4 | 1023.8 | 342.7 | 404.6 | 367.4 | 293.1 | 272.5 | 276.6 |
| 55° | 19783.1 | 18912.0 | 10349.8 | 2724.7 | 800.9 | 264.2 | 309.6 | 322.0 | 247.7 | 239.4 | 239.4 |
| 57.5° | 17029.5 | 16013.9 | 9131.9 | 2208.7 | 528.4 | 218.8 | 222.9 | 280.7 | 214.7 | 206.4 | 210.5 |
| 60° | 14573.1 | 12855.7 | 7348.5 | 1457.3 | 330.3 | 173.4 | 161.0 | 284.9 | 189.9 | 185.8 | 198.2 |
| 62.5° | 13285.1 | 10564.5 | 5573.3 | 904.1 | 227.1 | 132.1 | 111.5 | 231.2 | 165.1 | 165.1 | 181.6 |
| 65° | 9598.4 | 7096.6 | 3240.8 | 474.8 | 161.0 | 103.2 | 82.6 | 132.1 | 136.2 | 140.4 | 148.6 |
| 67.5° | 5944.8 | 3583.4 | 1366.5 | 231.2 | 107.3 | 70.2 | 53.7 | 82.6 | 90.8 | 90.8 | 99.1 |
| 70° | 2935.3 | 1428.4 | 454.1 | 132.1 | 82.6 | 57.8 | 37.2 | 45.4 | 45.4 | 41.3 | 45.4 |
| 72.5° | 908.2 | 429.3 | 115.6 | 82.6 | 57.8 | 37.2 | 20.6 | 16.5 | 8.3 | 0.0 | 4.1 |
| 75° | 103.2 | 82.6 | 74.3 | 57.8 | 37.2 | 16.5 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 61.9 | 70.2 | 70.2 | 57.8 | 37.2 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 49.5 | 53.7 | 57.8 | 53.7 | 33.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 61.9 | 70.2 | 78.4 | 70.2 | 45.4 | 20.6 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 4.1 | 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-SA6C-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 | 10642.9 |
| 2.5° | 9049.4 | 8958.5 | 9086.5 | 8896.6 | 8892.5 | 8896.6 | 8842.9 | 8793.4 | 8871.8 | 9082.4 | 9103.0 |
| 5° | 6906.7 | 7100.8 | 7162.7 | 7365.0 | 7253.5 | 7088.4 | 7121.4 | 7010.0 | 7282.4 | 7402.1 | 7307.2 |
| 7.5° | 5028.3 | 5016.0 | 5432.9 | 5457.7 | 5511.4 | 5515.5 | 5507.2 | 5288.4 | 5065.5 | 5115.0 | 5263.7 |
| 10° | 3901.3 | 3690.8 | 3893.0 | 3872.4 | 4004.5 | 3967.4 | 4021.0 | 3785.7 | 3864.1 | 3864.1 | 3959.1 |
| 12.5° | 3178.8 | 2955.9 | 2918.7 | 2865.1 | 2918.7 | 2939.4 | 2960.0 | 2914.6 | 3046.7 | 3108.7 | 3174.7 |
| 15° | 2427.5 | 2303.6 | 2270.6 | 2167.4 | 2183.9 | 2241.7 | 2291.2 | 2311.9 | 2270.6 | 2365.5 | 2373.8 |
| 17.5° | 1762.8 | 1758.7 | 1779.3 | 1775.2 | 1758.7 | 1746.3 | 1742.2 | 1688.5 | 1672.0 | 1680.2 | 1713.3 |
| 20° | 1337.6 | 1370.6 | 1440.8 | 1511.0 | 1548.1 | 1502.7 | 1440.8 | 1350.0 | 1312.8 | 1321.1 | 1325.2 |
| 22.5° | 1143.6 | 1193.1 | 1288.0 | 1366.5 | 1403.6 | 1321.1 | 1209.6 | 1131.2 | 1114.7 | 1110.5 | 1106.4 |
| 25° | 1036.2 | 1094.0 | 1164.2 | 1189.0 | 1184.8 | 1135.3 | 1052.7 | 1019.7 | 1011.4 | 1003.2 | 966.0 |
| 27.5° | 978.4 | 999.1 | 1011.4 | 1040.3 | 1052.7 | 1019.7 | 999.1 | 949.5 | 941.3 | 941.3 | 916.5 |
| 30° | 945.4 | 933.0 | 949.5 | 928.9 | 945.4 | 920.6 | 924.8 | 924.8 | 904.1 | 912.4 | 912.4 |
| 32.5° | 879.3 | 883.5 | 883.5 | 842.2 | 854.6 | 825.7 | 854.6 | 879.3 | 883.5 | 887.6 | 920.6 |
| 35° | 644.0 | 718.3 | 755.5 | 755.5 | 767.9 | 747.2 | 743.1 | 714.2 | 677.1 | 639.9 | 623.4 |
| 37.5° | 565.6 | 594.5 | 644.0 | 672.9 | 693.6 | 677.1 | 639.9 | 594.5 | 573.8 | 557.3 | 540.8 |
| 40° | 503.7 | 528.4 | 561.5 | 594.5 | 635.8 | 615.1 | 557.3 | 536.7 | 511.9 | 511.9 | 495.4 |
| 42.5° | 454.1 | 466.5 | 487.1 | 536.7 | 582.1 | 540.8 | 499.5 | 483.0 | 470.6 | 466.5 | 462.4 |
| 45° | 408.7 | 412.8 | 433.5 | 474.8 | 528.4 | 487.1 | 445.9 | 425.2 | 429.3 | 433.5 | 429.3 |
| 47.5° | 367.4 | 375.7 | 388.1 | 437.6 | 470.6 | 450.0 | 404.6 | 392.2 | 392.2 | 392.2 | 396.3 |
| 50° | 317.9 | 338.5 | 363.3 | 404.6 | 429.3 | 417.0 | 379.8 | 363.3 | 355.0 | 355.0 | 359.2 |
| 52.5° | 284.9 | 301.4 | 334.4 | 383.9 | 417.0 | 396.3 | 359.2 | 334.4 | 317.9 | 313.8 | 322.0 |
| 55° | 247.7 | 276.6 | 330.3 | 367.4 | 412.8 | 392.2 | 350.9 | 322.0 | 293.1 | 289.0 | 289.0 |
| 57.5° | 222.9 | 268.3 | 317.9 | 363.3 | 400.5 | 383.9 | 350.9 | 313.8 | 276.6 | 272.5 | 272.5 |
| 60° | 210.5 | 260.1 | 309.6 | 350.9 | 400.5 | 375.7 | 346.8 | 305.5 | 264.2 | 264.2 | 260.1 |
| 62.5° | 198.2 | 243.6 | 293.1 | 334.4 | 383.9 | 363.3 | 334.4 | 293.1 | 251.8 | 251.8 | 243.6 |
| 65° | 165.1 | 210.5 | 243.6 | 280.7 | 334.4 | 313.8 | 284.9 | 256.0 | 222.9 | 214.7 | 218.8 |
| 67.5° | 115.6 | 144.5 | 177.5 | 214.7 | 247.7 | 239.4 | 227.1 | 206.4 | 177.5 | 173.4 | 169.3 |
| 70° | 57.8 | 78.4 | 107.3 | 144.5 | 173.4 | 165.1 | 156.9 | 140.4 | 123.9 | 119.7 | 119.7 |
| 72.5° | 8.3 | 24.8 | 45.4 | 66.1 | 90.8 | 95.0 | 90.8 | 86.7 | 82.6 | 78.4 | 82.6 |
| 75° | 0.0 | 0.0 | 0.0 | 16.5 | 37.2 | 45.4 | 53.7 | 61.9 | 61.9 | 53.7 | 66.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 20.6 | 41.3 | 53.7 | 66.1 | 57.8 | 78.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 24.8 | 41.3 | 57.8 | 66.1 | 57.8 | 82.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 28.9 | 41.3 | 53.7 | 61.9 | 57.8 | 74.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 24.8 | 16.5 | 8.3 | 4.1 | 4.1 | 12.4 |
| 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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| 2.5° | 9218.6 | 9511.7 | 9825.5 | 9945.2 | 10316.8 | 10597.5 | 10787.4 | 11196.1 | 11258.0 | 11262.2 |
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| 20° | 1391.3 | 1614.2 | 2010.5 | 2662.8 | 3608.2 | 4788.9 | 6593.0 | 9074.1 | 10110.3 | 10358.0 |
| 22.5° | 1102.3 | 1193.1 | 1453.2 | 2031.2 | 3026.1 | 4454.5 | 6943.9 | 10250.7 | 11443.8 | 11803.0 |
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| 27.5° | 924.8 | 933.0 | 1040.3 | 1469.7 | 2460.5 | 4202.7 | 7720.0 | 12665.8 | 14325.4 | 14589.6 |
| 30° | 974.3 | 1106.4 | 1114.7 | 1242.6 | 2093.1 | 3769.2 | 7831.5 | 13636.0 | 15262.5 | 15456.6 |
| 32.5° | 842.2 | 800.9 | 829.8 | 961.9 | 1841.2 | 3517.4 | 8042.0 | 14482.3 | 16331.8 | 16468.0 |
| 35° | 586.2 | 615.1 | 681.2 | 833.9 | 1610.1 | 3253.1 | 8095.7 | 15415.3 | 17347.4 | 17487.7 |
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| 42.5° | 474.8 | 491.3 | 516.0 | 615.1 | 1147.7 | 2774.3 | 7773.7 | 17578.5 | 19622.1 | 20039.0 |
| 45° | 441.7 | 466.5 | 495.4 | 598.6 | 1077.5 | 2662.8 | 7666.4 | 17524.9 | 19956.5 | 20179.4 |
| 47.5° | 408.7 | 450.0 | 483.0 | 557.3 | 1056.9 | 2609.1 | 7711.8 | 17322.6 | 19684.0 | 19531.3 |
| 50° | 375.7 | 429.3 | 487.1 | 462.4 | 1007.3 | 2501.8 | 7765.4 | 17599.2 | 19035.9 | 19007.0 |
| 52.5° | 346.8 | 408.7 | 454.1 | 379.8 | 895.9 | 2398.6 | 8285.6 | 17962.5 | 19494.1 | 19110.2 |
| 55° | 305.5 | 367.4 | 363.3 | 305.5 | 726.6 | 2320.1 | 8694.3 | 17970.7 | 19184.5 | 19329.0 |
| 57.5° | 276.6 | 326.1 | 284.9 | 256.0 | 536.7 | 1940.3 | 8029.7 | 15068.5 | 16422.6 | 16678.6 |
| 60° | 256.0 | 317.9 | 214.7 | 202.3 | 350.9 | 1399.5 | 7010.0 | 11670.9 | 13053.9 | 13536.9 |
| 62.5° | 235.3 | 301.4 | 169.3 | 165.1 | 243.6 | 994.9 | 5763.2 | 9767.7 | 11249.8 | 11906.2 |
| 65° | 206.4 | 214.7 | 136.2 | 128.0 | 173.4 | 536.7 | 3509.1 | 6725.1 | 8409.5 | 8653.0 |
| 67.5° | 169.3 | 165.1 | 111.5 | 103.2 | 115.6 | 260.1 | 1548.1 | 3368.7 | 4875.6 | 5284.3 |
| 70° | 136.2 | 136.2 | 95.0 | 82.6 | 82.6 | 119.7 | 404.6 | 1341.7 | 2204.5 | 2439.9 |
| 72.5° | 99.1 | 103.2 | 74.3 | 66.1 | 61.9 | 57.8 | 66.1 | 268.3 | 578.0 | 739.0 |
| 75° | 86.7 | 90.8 | 74.3 | 57.8 | 45.4 | 37.2 | 28.9 | 24.8 | 33.0 | 53.7 |
| 77.5° | 95.0 | 95.0 | 78.4 | 53.7 | 41.3 | 28.9 | 16.5 | 8.3 | 8.3 | 4.1 |
| 80° | 119.7 | 123.9 | 103.2 | 70.2 | 49.5 | 33.0 | 20.6 | 8.3 | 4.1 | 4.1 |
| 82.5° | 128.0 | 140.4 | 115.6 | 86.7 | 61.9 | 37.2 | 20.6 | 4.1 | 0.0 | 0.0 |
| 85° | 33.0 | 53.7 | 90.8 | 78.4 | 61.9 | 37.2 | 20.6 | 4.1 | 0.0 | 0.0 |
| 87.5° | 0.0 | 4.1 | 12.4 | 12.4 | 16.5 | 16.5 | 12.4 | 4.1 | 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)