

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: P532637

Luminaire Tested: **GALN-SA8A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20083 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

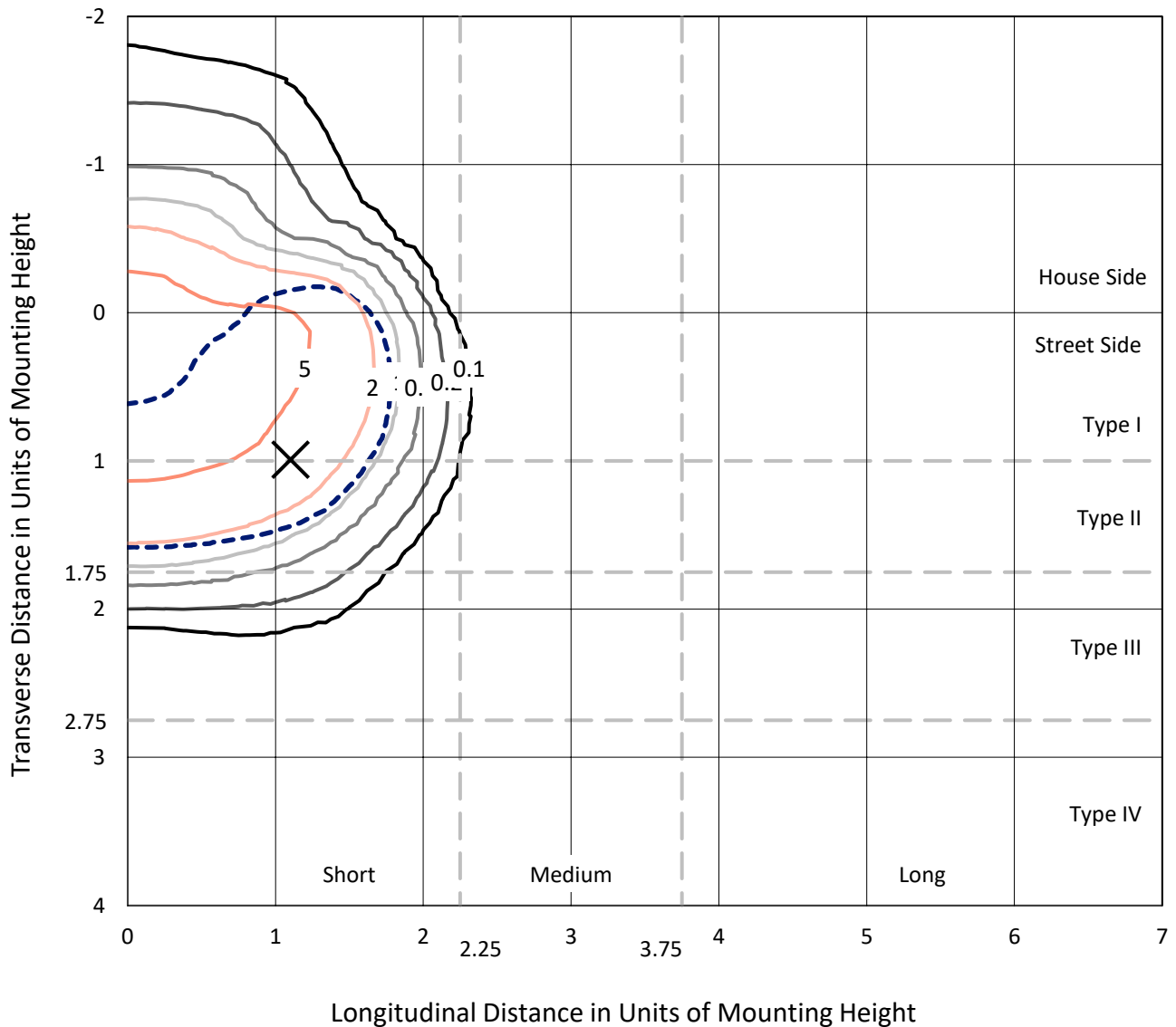
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

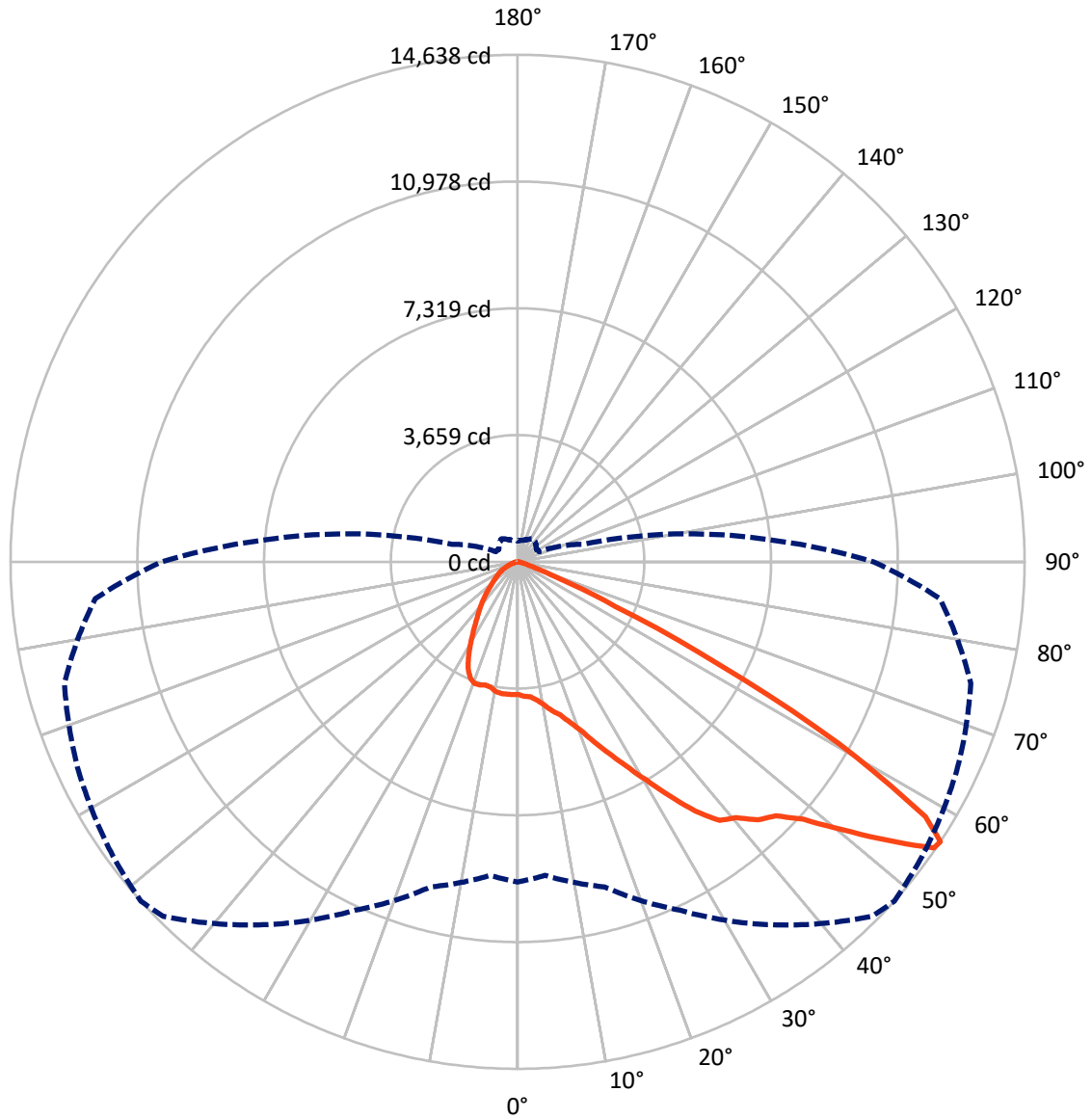
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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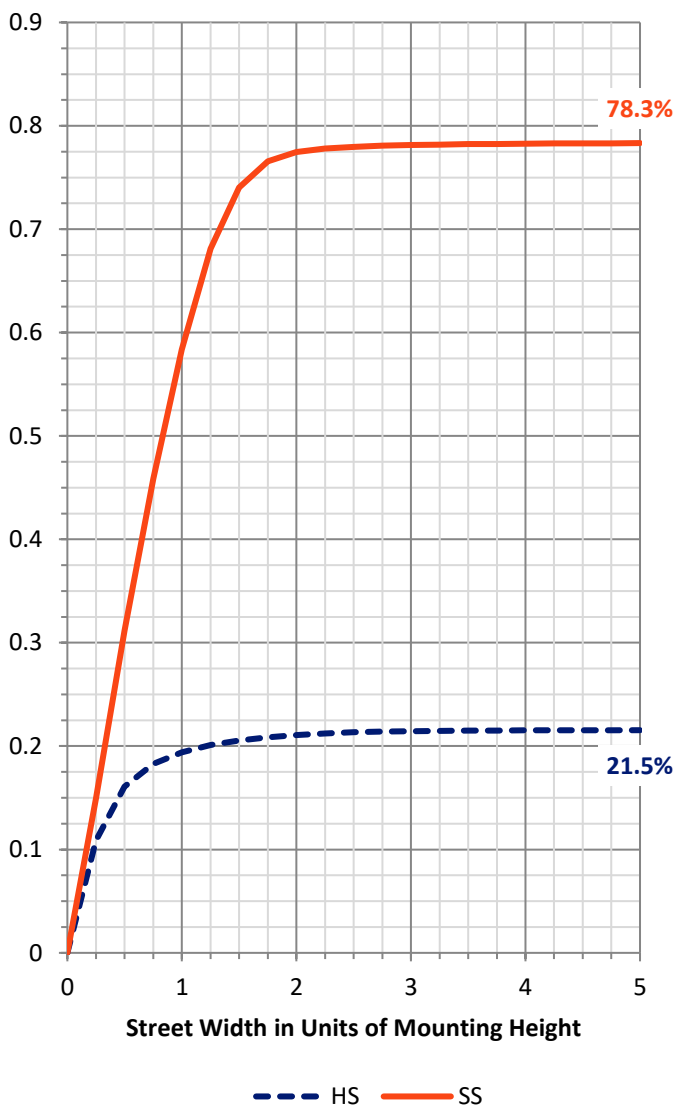
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4367.7 | 0.0 | 4367.7 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 15715.3 | 0.0 | 15715.3 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 20083.0 | 0.0 | 20083.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 373.7 | 1.9 |
| 10°-20° | 1194.1 | 5.9 |
| 20°-30° | 2165.9 | 10.8 |
| 30°-40° | 3402.2 | 16.9 |
| 40°-50° | 4963.2 | 24.7 |
| 50°-60° | 5979.8 | 29.8 |
| 60°-70° | 1750.8 | 8.7 |
| 70°-80° | 222.1 | 1.1 |
| 80°-90° | 31.2 | 0.2 |
| 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° | 20083.0 | 100.0 |
| 0°-180° | 20083.0 | 100.0 |

Coefficient of Utilization

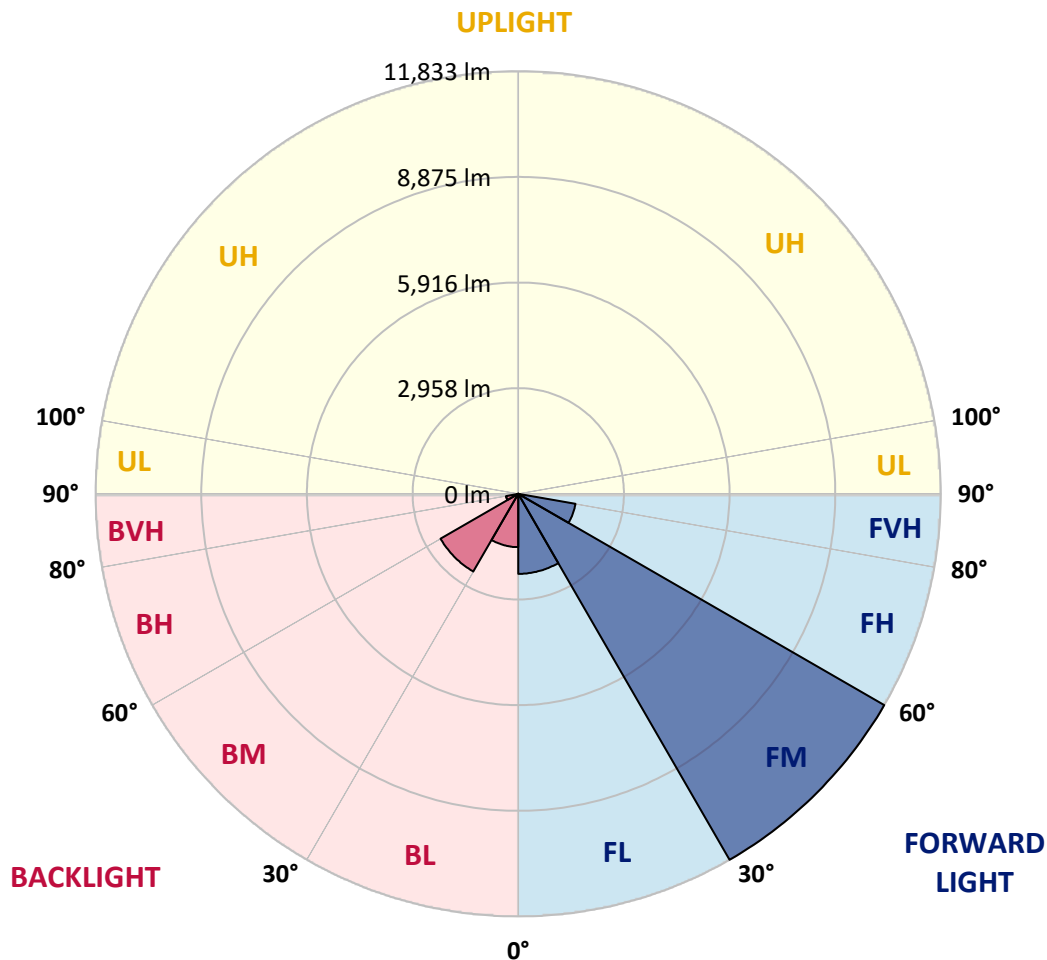


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2240.9 | 11.2 | | | |
| FM (30°-60°) | 11833.0 | 58.9 | | | |
| FH (60°-80°) | 1625.9 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 15.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1492.9 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2512.3 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 347.1 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 |
| 2.5° | 3905.3 | 3887.1 | 3887.1 | 3857.8 | 3890.7 | 3876.1 | 3887.1 | 3850.5 | 3887.1 | 3832.2 | 3876.1 |
| 5° | 3923.6 | 3927.3 | 3912.7 | 3930.9 | 3930.9 | 3952.9 | 3916.3 | 3949.2 | 3967.5 | 3927.3 | 3909.0 |
| 7.5° | 4018.7 | 4026.0 | 4022.4 | 4007.7 | 4037.0 | 4033.3 | 4029.7 | 4004.1 | 4011.4 | 3996.8 | 3974.8 |
| 10° | 4205.2 | 4201.5 | 4219.8 | 4183.2 | 4161.3 | 4186.9 | 4194.2 | 4154.0 | 4124.7 | 4113.8 | 4044.3 |
| 12.5° | 4475.8 | 4431.9 | 4406.3 | 4369.7 | 4380.7 | 4344.1 | 4410.0 | 4340.5 | 4325.9 | 4260.0 | 4190.6 |
| 15° | 4695.2 | 4687.9 | 4691.5 | 4633.0 | 4567.2 | 4581.8 | 4581.8 | 4545.3 | 4523.3 | 4442.9 | 4344.1 |
| 17.5° | 5145.0 | 4991.4 | 5024.3 | 4951.2 | 4896.3 | 4892.6 | 4859.7 | 4867.0 | 4808.5 | 4640.3 | 4490.4 |
| 20° | 5496.0 | 5430.2 | 5379.0 | 5254.7 | 5170.6 | 5196.1 | 5181.5 | 5145.0 | 5126.7 | 4907.3 | 4695.2 |
| 22.5° | 5810.5 | 5832.4 | 5748.3 | 5715.4 | 5598.4 | 5609.4 | 5638.6 | 5605.7 | 5466.7 | 5240.0 | 4925.6 |
| 25° | 6252.9 | 6227.3 | 6114.0 | 6073.8 | 5964.1 | 6004.3 | 6117.6 | 6092.0 | 6004.3 | 5594.7 | 5104.7 |
| 27.5° | 6775.8 | 6688.1 | 6710.0 | 6527.2 | 6421.1 | 6534.5 | 6669.8 | 6797.8 | 6549.1 | 6011.6 | 5316.8 |
| 30° | 7145.2 | 7053.7 | 7046.4 | 7039.1 | 7013.5 | 7145.2 | 7302.4 | 7419.4 | 7218.3 | 6428.5 | 5667.9 |
| 32.5° | 7328.0 | 7349.9 | 7412.1 | 7390.2 | 7613.2 | 7883.8 | 8048.4 | 8216.6 | 7964.3 | 7108.6 | 6132.3 |
| 35° | 7814.3 | 7675.4 | 7814.3 | 7829.0 | 8059.3 | 8633.4 | 8841.9 | 9244.1 | 9181.9 | 8070.3 | 6699.0 |
| 37.5° | 8099.6 | 8088.6 | 8106.9 | 8245.8 | 8468.9 | 9178.3 | 9474.5 | 9785.3 | 9668.3 | 8648.1 | 7404.8 |
| 40° | 8571.3 | 8600.5 | 8596.9 | 8702.9 | 8947.9 | 9587.8 | 9708.5 | 9960.8 | 9971.8 | 9448.9 | 8443.3 |
| 42.5° | 9328.2 | 9211.2 | 9134.4 | 9244.1 | 9587.8 | 9942.5 | 10183.9 | 10132.7 | 10494.7 | 10421.5 | 9778.0 |
| 45° | 10008.3 | 10077.8 | 9964.5 | 10147.3 | 10271.6 | 10461.8 | 10454.5 | 10564.2 | 11024.9 | 11372.3 | 10783.6 |
| 47.5° | 10644.6 | 10688.5 | 10743.3 | 10867.7 | 11138.3 | 11167.5 | 11105.3 | 11057.8 | 11694.1 | 12052.4 | 11562.4 |
| 50° | 11024.9 | 11065.1 | 11321.1 | 11544.2 | 12048.8 | 12114.6 | 12151.2 | 12030.5 | 12462.0 | 12502.2 | 12297.4 |
| 52.5° | 10922.5 | 10966.4 | 11324.8 | 12059.7 | 12864.2 | 13467.6 | 13357.9 | 13153.1 | 13127.5 | 13284.7 | 12977.6 |
| 55° | 10015.7 | 9975.4 | 10469.1 | 11613.6 | 13120.2 | 14568.2 | 14582.9 | 14367.1 | 13953.9 | 13847.9 | 12875.2 |
| 56° | 9244.1 | 9086.9 | 9715.8 | 11098.0 | 12791.1 | 14473.2 | 14637.7 | 14407.3 | 14019.7 | 13544.4 | 12242.6 |
| 57.5° | 7573.0 | 7722.9 | 8348.2 | 9492.8 | 11653.9 | 13789.4 | 13884.4 | 13829.6 | 13537.0 | 12739.9 | 10772.6 |
| 60° | 4175.9 | 4439.2 | 4991.4 | 6391.9 | 8297.0 | 10582.4 | 10659.2 | 11105.3 | 11160.2 | 9756.0 | 7412.1 |
| 62.5° | 1773.5 | 1744.2 | 2318.3 | 3349.5 | 4724.4 | 6388.2 | 6530.8 | 6987.9 | 7072.0 | 5624.0 | 3718.8 |
| 65° | 720.4 | 760.6 | 1049.5 | 1685.7 | 2497.5 | 2910.7 | 3111.8 | 3261.8 | 3539.7 | 2322.0 | 1371.3 |
| 67.5° | 475.4 | 471.7 | 618.0 | 961.7 | 1345.7 | 1298.1 | 1298.1 | 1371.3 | 1268.9 | 947.1 | 592.4 |
| 70° | 340.1 | 351.0 | 442.5 | 665.5 | 837.4 | 621.6 | 596.0 | 570.4 | 647.2 | 625.3 | 479.0 |
| 72.5° | 223.1 | 237.7 | 296.2 | 398.6 | 435.1 | 340.1 | 340.1 | 409.5 | 533.9 | 504.6 | 391.3 |
| 75° | 146.3 | 149.9 | 182.8 | 230.4 | 215.7 | 175.5 | 193.8 | 274.3 | 387.6 | 373.0 | 277.9 |
| 77.5° | 98.7 | 102.4 | 124.3 | 149.9 | 120.7 | 98.7 | 106.0 | 139.0 | 190.1 | 190.1 | 146.3 |
| 80° | 36.6 | 40.2 | 51.2 | 47.5 | 54.9 | 69.5 | 76.8 | 95.1 | 113.4 | 113.4 | 98.7 |
| 82.5° | 0.0 | 3.7 | 11.0 | 25.6 | 40.2 | 54.9 | 62.2 | 73.1 | 84.1 | 95.1 | 91.4 |
| 85° | 0.0 | 3.7 | 11.0 | 18.3 | 29.3 | 32.9 | 36.6 | 25.6 | 21.9 | 21.9 | 18.3 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.3 | 3.7 | 3.7 |
| 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-SA8A-730-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 | 3835.9 |
| 2.5° | 3835.9 | 3832.2 | 3832.2 | 3821.2 | 3843.2 | 3832.2 | 3839.5 | 3835.9 | 3788.3 | 3824.9 | 3799.3 |
| 5° | 3876.1 | 3901.7 | 3861.5 | 3854.1 | 3824.9 | 3835.9 | 3835.9 | 3799.3 | 3832.2 | 3828.5 | 3821.2 |
| 7.5° | 3978.5 | 3934.6 | 3890.7 | 3846.8 | 3839.5 | 3828.5 | 3788.3 | 3773.7 | 3799.3 | 3770.0 | 3813.9 |
| 10° | 4022.4 | 4029.7 | 3963.8 | 3905.3 | 3850.5 | 3773.7 | 3718.8 | 3685.9 | 3645.7 | 3689.6 | 3715.2 |
| 12.5° | 4223.5 | 4150.3 | 4037.0 | 3945.6 | 3759.1 | 3682.3 | 3627.4 | 3612.8 | 3682.3 | 3696.9 | 3671.3 |
| 15° | 4292.9 | 4282.0 | 4135.7 | 3930.9 | 3737.1 | 3645.7 | 3656.7 | 3627.4 | 3634.7 | 3598.2 | 3605.5 |
| 17.5° | 4435.6 | 4311.2 | 4139.4 | 3883.4 | 3733.5 | 3711.5 | 3645.7 | 3528.7 | 3462.9 | 3433.6 | 3459.2 |
| 20° | 4592.8 | 4472.1 | 4223.5 | 3901.7 | 3766.4 | 3707.9 | 3492.1 | 3349.5 | 3214.2 | 3141.1 | 3144.7 |
| 22.5° | 4731.7 | 4581.8 | 4186.9 | 3909.0 | 3795.6 | 3554.3 | 3294.7 | 3013.1 | 2844.9 | 2731.5 | 2735.2 |
| 25° | 4900.0 | 4687.9 | 4201.5 | 3923.6 | 3718.8 | 3309.3 | 2936.3 | 2662.1 | 2460.9 | 2384.2 | 2409.8 |
| 27.5° | 4995.0 | 4753.7 | 4282.0 | 3956.5 | 3517.7 | 2961.9 | 2559.7 | 2303.7 | 2186.7 | 2150.1 | 2146.5 |
| 30° | 5280.3 | 4900.0 | 4380.7 | 3890.7 | 3181.3 | 2588.9 | 2216.0 | 2058.7 | 1945.4 | 1912.4 | 1919.8 |
| 32.5° | 5704.4 | 5166.9 | 4508.7 | 3718.8 | 2837.6 | 2256.2 | 1992.9 | 1875.9 | 1769.8 | 1707.7 | 1700.4 |
| 35° | 6059.1 | 5624.0 | 4644.0 | 3451.9 | 2439.0 | 2000.2 | 1835.7 | 1689.4 | 1528.5 | 1459.0 | 1440.7 |
| 37.5° | 6735.6 | 6139.6 | 4614.7 | 3049.7 | 2058.7 | 1810.1 | 1667.4 | 1488.3 | 1349.3 | 1254.2 | 1243.3 |
| 40° | 7635.2 | 6742.9 | 4472.1 | 2559.7 | 1777.1 | 1641.9 | 1488.3 | 1316.4 | 1144.5 | 1064.1 | 1056.8 |
| 42.5° | 8728.5 | 7481.6 | 4212.5 | 2062.4 | 1495.6 | 1473.6 | 1334.7 | 1137.2 | 983.6 | 925.1 | 928.8 |
| 45° | 9617.1 | 8114.2 | 3949.2 | 1656.5 | 1287.2 | 1309.1 | 1188.4 | 1001.9 | 895.9 | 848.4 | 848.4 |
| 47.5° | 10406.9 | 8542.0 | 3664.0 | 1367.6 | 1093.3 | 1144.5 | 1038.5 | 928.8 | 837.4 | 800.8 | 793.5 |
| 50° | 11167.5 | 8977.2 | 3378.8 | 1108.0 | 932.5 | 983.6 | 972.7 | 884.9 | 811.8 | 767.9 | 771.6 |
| 52.5° | 11642.9 | 9046.6 | 3016.8 | 906.9 | 815.4 | 873.9 | 910.5 | 830.1 | 749.6 | 724.0 | 716.7 |
| 55° | 11061.5 | 8150.7 | 2340.3 | 746.0 | 691.1 | 767.9 | 837.4 | 746.0 | 683.8 | 639.9 | 636.3 |
| 56° | 10278.9 | 7287.8 | 1956.3 | 687.5 | 654.5 | 738.7 | 811.8 | 713.1 | 643.6 | 618.0 | 599.7 |
| 57.5° | 8702.9 | 5964.1 | 1444.4 | 610.7 | 607.0 | 687.5 | 771.6 | 680.1 | 599.7 | 577.8 | 577.8 |
| 60° | 5426.5 | 3356.8 | 873.9 | 511.9 | 526.6 | 610.7 | 694.8 | 607.0 | 533.9 | 533.9 | 544.8 |
| 62.5° | 2471.9 | 1396.9 | 530.2 | 435.1 | 453.4 | 526.6 | 618.0 | 548.5 | 508.3 | 548.5 | 555.8 |
| 65° | 841.0 | 603.4 | 384.0 | 347.4 | 358.4 | 435.1 | 530.2 | 555.8 | 552.2 | 577.8 | 592.4 |
| 67.5° | 471.7 | 387.6 | 321.8 | 288.9 | 281.6 | 321.8 | 435.1 | 555.8 | 533.9 | 522.9 | 530.2 |
| 70° | 398.6 | 329.1 | 285.2 | 256.0 | 245.0 | 259.6 | 336.4 | 420.5 | 376.6 | 365.7 | 358.4 |
| 72.5° | 321.8 | 274.3 | 248.7 | 230.4 | 197.5 | 168.2 | 153.6 | 160.9 | 179.2 | 190.1 | 208.4 |
| 75° | 226.7 | 208.4 | 208.4 | 186.5 | 142.6 | 106.0 | 84.1 | 69.5 | 47.5 | 32.9 | 36.6 |
| 77.5° | 128.0 | 128.0 | 131.6 | 113.4 | 91.4 | 69.5 | 51.2 | 36.6 | 18.3 | 7.3 | 3.7 |
| 80° | 87.8 | 95.1 | 102.4 | 91.4 | 76.8 | 62.2 | 43.9 | 25.6 | 11.0 | 0.0 | 0.0 |
| 82.5° | 87.8 | 98.7 | 106.0 | 91.4 | 76.8 | 58.5 | 43.9 | 25.6 | 11.0 | 3.7 | 0.0 |
| 85° | 18.3 | 21.9 | 25.6 | 29.3 | 43.9 | 43.9 | 32.9 | 21.9 | 11.0 | 3.7 | 0.0 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 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)