

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: P533544

Luminaire Tested: **GALN-SA9A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29082 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

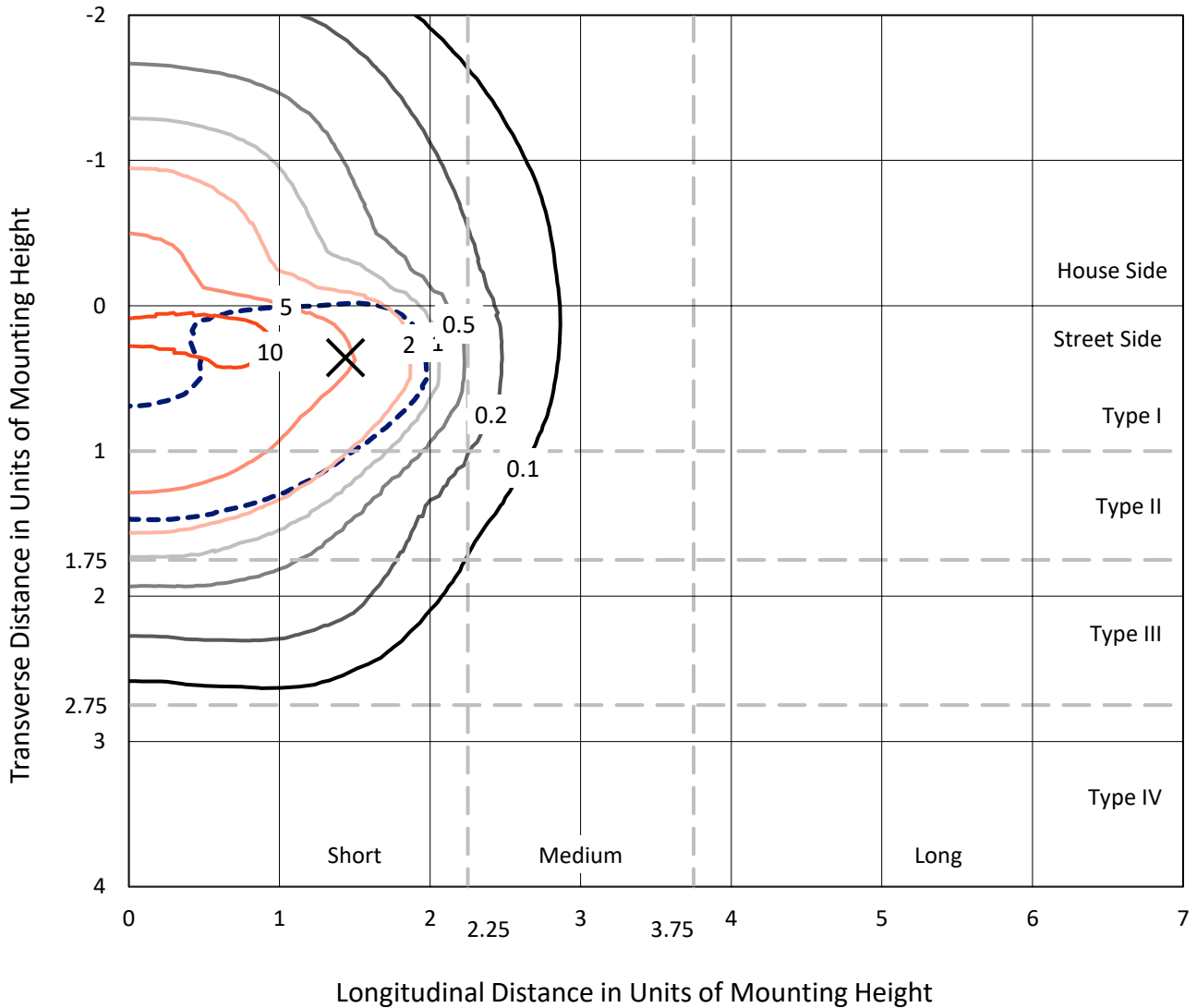
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

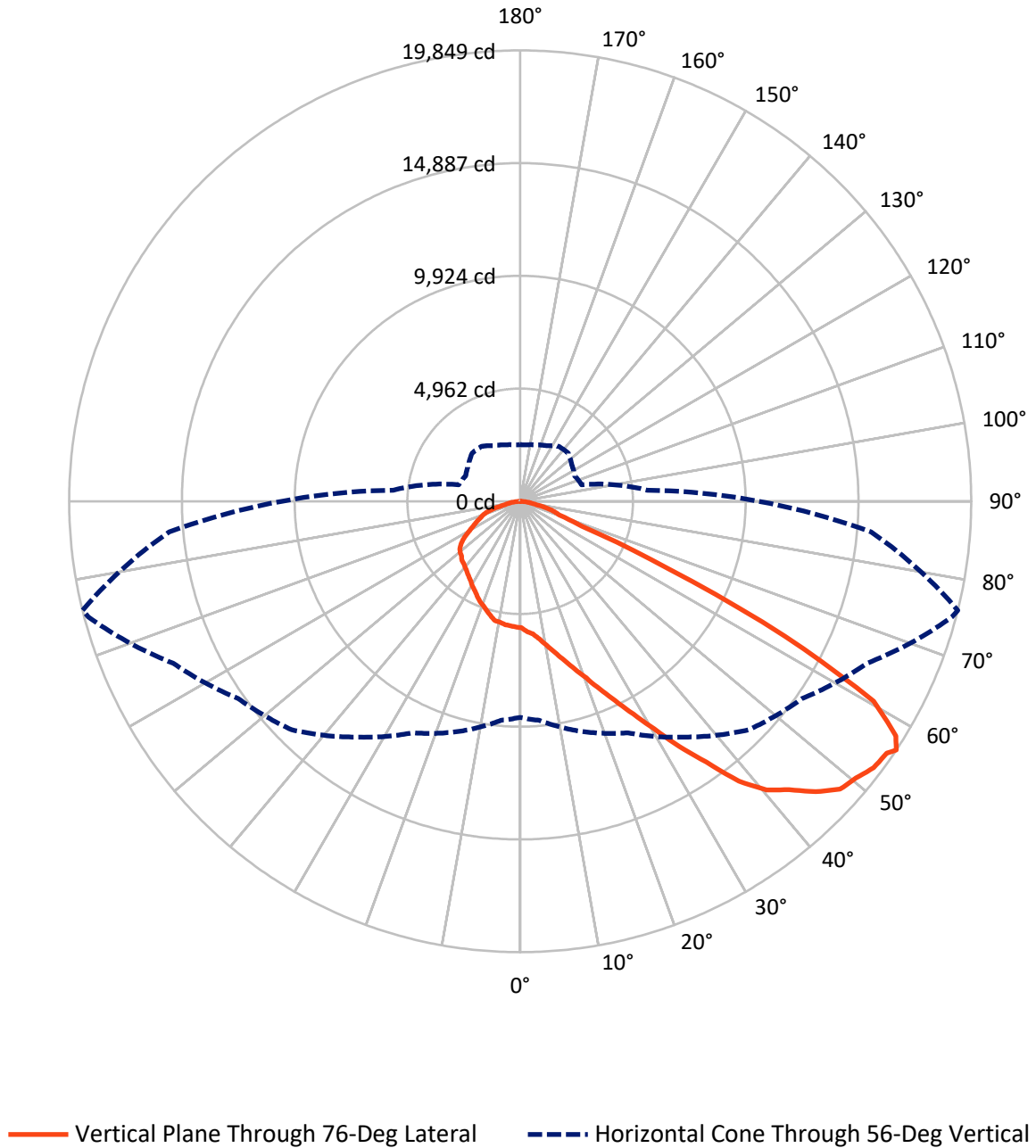
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7819.3 | 0.0 | 7819.3 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 21262.7 | 0.0 | 21262.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 29082.0 | 0.0 | 29082.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 551.8 | 1.9 |
| 10°-20° | 1733.5 | 6.0 |
| 20°-30° | 3031.6 | 10.4 |
| 30°-40° | 4746.6 | 16.3 |
| 40°-50° | 6905.0 | 23.7 |
| 50°-60° | 7589.0 | 26.1 |
| 60°-70° | 3387.4 | 11.6 |
| 70°-80° | 978.4 | 3.4 |
| 80°-90° | 158.7 | 0.5 |
| 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° | 29082.0 | 100.0 |
| 0°-180° | 29082.0 | 100.0 |

Coefficient of Utilization



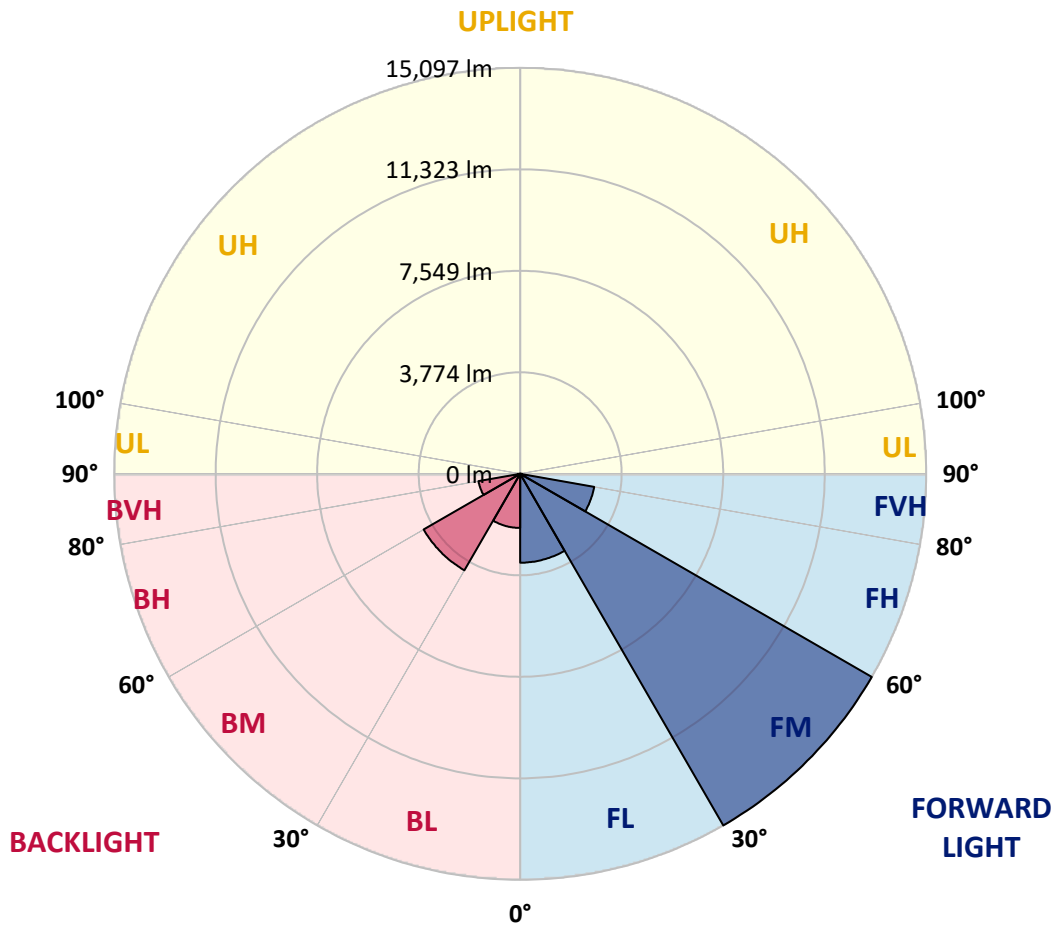
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3304.8 | 11.4 | | | |
| FM (30°-60°) | 15097.0 | 51.9 | | | |
| FH (60°-80°) | 2792.6 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 68.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2012.1 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 4143.6 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1573.3 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 |
| 2.5° | 6130.0 | 6031.9 | 6024.4 | 5998.0 | 6013.1 | 5945.2 | 5873.6 | 5779.4 | 5681.3 | 5741.7 | 5598.4 |
| 5° | 6559.7 | 6427.8 | 6480.6 | 6390.1 | 6401.4 | 6310.9 | 6163.9 | 6054.6 | 5933.9 | 5862.3 | 5760.5 |
| 7.5° | 6710.5 | 6721.8 | 6759.5 | 6744.5 | 6669.1 | 6669.1 | 6571.0 | 6378.8 | 6167.7 | 6126.2 | 5956.5 |
| 10° | 6914.1 | 6917.9 | 6876.4 | 6887.7 | 6993.3 | 6944.3 | 6857.6 | 6774.6 | 6503.2 | 6454.2 | 6152.6 |
| 12.5° | 6985.7 | 6917.9 | 6985.7 | 7046.1 | 7170.5 | 7238.3 | 7219.5 | 7159.2 | 6868.9 | 6834.9 | 6393.9 |
| 15° | 6997.1 | 6955.6 | 7012.1 | 7147.9 | 7257.2 | 7543.7 | 7687.0 | 7645.5 | 7261.0 | 7264.7 | 6665.3 |
| 17.5° | 6944.3 | 7000.8 | 7023.4 | 7140.3 | 7392.9 | 7660.6 | 8075.3 | 8131.8 | 7815.1 | 7766.1 | 7008.4 |
| 20° | 7015.9 | 6974.4 | 7004.6 | 7110.2 | 7445.7 | 7864.1 | 8407.0 | 8780.2 | 8335.4 | 8301.5 | 7362.7 |
| 22.5° | 7291.1 | 7234.6 | 7227.0 | 7294.9 | 7536.2 | 7969.7 | 8757.6 | 9428.7 | 8968.7 | 8987.6 | 7803.8 |
| 25° | 7506.0 | 7536.2 | 7509.8 | 7506.0 | 7656.8 | 8128.0 | 9221.3 | 10201.5 | 9828.3 | 9719.0 | 8324.1 |
| 27.5° | 7875.5 | 7947.1 | 7894.3 | 7965.9 | 7932.0 | 8365.6 | 9553.1 | 11057.3 | 10755.7 | 10608.7 | 8795.3 |
| 30° | 8388.2 | 8425.9 | 8376.9 | 8376.9 | 8275.1 | 8697.3 | 9854.7 | 11950.8 | 11826.4 | 11626.6 | 9349.5 |
| 32.5° | 9063.0 | 9119.5 | 9021.5 | 8965.0 | 8949.9 | 9191.2 | 10397.6 | 12833.0 | 13044.1 | 12874.4 | 10084.7 |
| 35° | 9956.5 | 9922.5 | 9805.7 | 9752.9 | 9549.3 | 9948.9 | 11204.3 | 13847.1 | 14401.3 | 14099.7 | 10974.4 |
| 37.5° | 10744.4 | 10691.6 | 10684.1 | 10390.0 | 10439.0 | 10767.0 | 11890.5 | 14616.2 | 15717.0 | 15630.3 | 11913.1 |
| 40° | 11479.5 | 11528.6 | 11607.7 | 11441.8 | 11366.4 | 11728.4 | 12689.7 | 15204.3 | 16738.6 | 16704.7 | 12636.9 |
| 42.5° | 12267.5 | 12222.2 | 12361.7 | 12222.2 | 12109.1 | 12621.8 | 13556.8 | 15611.4 | 17635.9 | 17356.9 | 13394.7 |
| 45° | 13409.8 | 13266.5 | 13315.5 | 13326.8 | 13243.9 | 13432.4 | 13914.9 | 15905.5 | 18265.5 | 18235.3 | 13948.9 |
| 47.5° | 14363.6 | 14367.3 | 14284.4 | 14220.3 | 13967.7 | 14156.2 | 14314.6 | 16090.2 | 18989.3 | 18940.3 | 14163.8 |
| 50° | 14717.9 | 14668.9 | 14910.2 | 15049.7 | 15064.8 | 14680.2 | 14627.5 | 16192.0 | 19370.1 | 19155.2 | 14378.6 |
| 52.5° | 13443.7 | 13488.9 | 13869.7 | 14699.1 | 15177.9 | 15219.3 | 14993.1 | 16403.1 | 19524.6 | 19479.4 | 14552.1 |
| 55° | 10819.8 | 11038.5 | 11664.3 | 12621.8 | 13756.6 | 15004.5 | 15389.0 | 16621.8 | 19607.6 | 19569.9 | 15321.1 |
| 56° | 9511.6 | 9681.3 | 10495.6 | 11245.8 | 12670.8 | 14224.1 | 15140.2 | 16855.5 | 19671.7 | 19848.9 | 15502.1 |
| 57.5° | 7656.8 | 7852.8 | 8437.2 | 9289.2 | 10970.6 | 12738.7 | 14454.0 | 16569.0 | 19422.9 | 19490.7 | 15634.0 |
| 60° | 4787.9 | 4806.7 | 5507.9 | 6069.6 | 7253.4 | 8980.1 | 11030.9 | 14416.3 | 17975.2 | 17877.2 | 14043.1 |
| 62.5° | 3140.4 | 3144.2 | 3781.3 | 4241.2 | 4780.3 | 5176.2 | 6491.9 | 9560.6 | 13262.7 | 13089.3 | 9997.9 |
| 65° | 2205.4 | 2254.4 | 2748.3 | 3362.8 | 3581.5 | 3374.1 | 3332.6 | 5040.4 | 7408.0 | 7159.2 | 5372.2 |
| 67.5° | 1613.5 | 1617.3 | 2054.6 | 2714.4 | 3031.1 | 2567.3 | 2084.8 | 2461.8 | 2933.0 | 2925.5 | 2488.2 |
| 70° | 1066.9 | 1112.1 | 1447.7 | 2028.2 | 2390.2 | 2062.2 | 1704.0 | 1760.6 | 1866.1 | 1866.1 | 1851.1 |
| 72.5° | 622.0 | 663.5 | 885.9 | 1285.6 | 1342.1 | 1289.3 | 1349.6 | 1508.0 | 1575.8 | 1572.1 | 1553.2 |
| 75° | 354.4 | 373.2 | 422.2 | 535.3 | 667.3 | 787.9 | 991.5 | 1142.3 | 1210.2 | 1251.6 | 1202.6 |
| 77.5° | 207.3 | 218.7 | 248.8 | 305.4 | 346.8 | 426.0 | 539.1 | 644.7 | 735.1 | 723.8 | 731.4 |
| 80° | 109.3 | 109.3 | 139.5 | 181.0 | 241.3 | 301.6 | 358.1 | 418.5 | 467.5 | 478.8 | 490.1 |
| 82.5° | 64.1 | 67.9 | 90.5 | 131.9 | 173.4 | 214.9 | 275.2 | 316.7 | 361.9 | 365.7 | 373.2 |
| 85° | 33.9 | 37.7 | 56.5 | 86.7 | 116.9 | 131.9 | 135.7 | 128.2 | 139.5 | 131.9 | 150.8 |
| 87.5° | 11.3 | 11.3 | 18.8 | 15.1 | 15.1 | 18.8 | 22.6 | 22.6 | 30.2 | 30.2 | 30.2 |
| 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-SA9A-727-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 | 5564.5 |
| 2.5° | 5594.6 | 5594.6 | 5530.5 | 5409.9 | 5391.0 | 5342.0 | 5296.8 | 5293.0 | 5259.1 | 5228.9 | 5213.9 |
| 5° | 5700.2 | 5583.3 | 5489.1 | 5379.7 | 5251.6 | 5191.2 | 5123.4 | 5048.0 | 5017.8 | 5048.0 | 5044.2 |
| 7.5° | 5820.8 | 5722.8 | 5440.1 | 5236.5 | 5089.5 | 5029.1 | 4953.7 | 4874.6 | 4882.1 | 4882.1 | 4829.3 |
| 10° | 5937.7 | 5805.7 | 5353.3 | 5093.2 | 4878.3 | 4833.1 | 4791.6 | 4821.8 | 4859.5 | 4867.0 | 4833.1 |
| 12.5° | 6133.7 | 5835.9 | 5311.9 | 4950.0 | 4814.2 | 4716.2 | 4742.6 | 4825.6 | 4904.7 | 4882.1 | 4908.5 |
| 15° | 6280.8 | 5862.3 | 5123.4 | 4802.9 | 4633.3 | 4678.5 | 4772.8 | 4829.3 | 4961.3 | 4946.2 | 4972.6 |
| 17.5° | 6424.0 | 5877.4 | 4938.7 | 4606.9 | 4535.3 | 4659.7 | 4731.3 | 4893.4 | 4934.9 | 5025.4 | 5059.3 |
| 20° | 6718.1 | 5907.5 | 4750.2 | 4486.3 | 4463.6 | 4606.9 | 4731.3 | 4806.7 | 4897.2 | 4976.4 | 4976.4 |
| 22.5° | 6868.9 | 5892.5 | 4625.7 | 4327.9 | 4399.5 | 4490.0 | 4603.1 | 4731.3 | 4731.3 | 4806.7 | 4810.5 |
| 25° | 7057.4 | 5832.1 | 4429.7 | 4252.5 | 4305.3 | 4392.0 | 4520.2 | 4474.9 | 4524.0 | 4524.0 | 4584.3 |
| 27.5° | 7272.3 | 5704.0 | 4260.1 | 4116.8 | 4222.4 | 4316.6 | 4335.5 | 4305.3 | 4248.7 | 4241.2 | 4218.6 |
| 30° | 7445.7 | 5545.6 | 4135.7 | 4071.6 | 4158.3 | 4211.1 | 4150.7 | 4086.6 | 3988.6 | 3981.1 | 3928.3 |
| 32.5° | 7683.2 | 5349.6 | 3981.1 | 3958.5 | 4056.5 | 4060.3 | 4041.4 | 3943.4 | 3800.1 | 3739.8 | 3679.5 |
| 35° | 8082.8 | 5236.5 | 3864.2 | 3898.1 | 3928.3 | 3917.0 | 3883.1 | 3777.5 | 3634.2 | 3607.9 | 3585.2 |
| 37.5° | 8376.9 | 5153.5 | 3743.6 | 3785.0 | 3811.4 | 3826.5 | 3724.7 | 3607.9 | 3611.6 | 3558.8 | 3543.8 |
| 40° | 8708.6 | 5100.8 | 3645.6 | 3664.4 | 3668.2 | 3717.2 | 3592.8 | 3536.2 | 3562.6 | 3528.7 | 3551.3 |
| 42.5° | 9134.6 | 5115.8 | 3543.8 | 3528.7 | 3600.3 | 3581.5 | 3521.1 | 3445.7 | 3460.8 | 3359.0 | 3374.1 |
| 45° | 9360.8 | 5217.6 | 3483.4 | 3415.6 | 3494.8 | 3491.0 | 3411.8 | 3340.2 | 3249.7 | 3053.7 | 3061.2 |
| 47.5° | 9511.6 | 5244.0 | 3340.2 | 3294.9 | 3377.9 | 3426.9 | 3336.4 | 3170.5 | 3042.4 | 2902.9 | 2868.9 |
| 50° | 9666.2 | 5293.0 | 3272.3 | 3178.1 | 3212.0 | 3328.9 | 3215.8 | 3057.4 | 2933.0 | 2808.6 | 2827.5 |
| 52.5° | 9801.9 | 5387.3 | 3140.4 | 3000.9 | 3061.2 | 3189.4 | 3129.1 | 2936.8 | 2801.1 | 2699.3 | 2669.1 |
| 55° | 10405.1 | 5598.4 | 2918.0 | 2737.0 | 2880.3 | 3042.4 | 3008.4 | 2774.7 | 2627.7 | 2574.9 | 2567.3 |
| 56° | 10499.4 | 5605.9 | 2801.1 | 2646.5 | 2778.5 | 2993.4 | 2951.9 | 2703.1 | 2571.1 | 2488.2 | 2491.9 |
| 57.5° | 10514.4 | 5515.5 | 2635.2 | 2563.6 | 2676.7 | 2921.7 | 2868.9 | 2646.5 | 2465.6 | 2390.2 | 2367.5 |
| 60° | 9251.5 | 4305.3 | 2427.9 | 2382.6 | 2514.6 | 2703.1 | 2684.2 | 2491.9 | 2288.4 | 2201.7 | 2243.1 |
| 62.5° | 6307.2 | 3155.5 | 2265.7 | 2258.2 | 2326.1 | 2510.8 | 2461.8 | 2288.4 | 2118.7 | 2062.2 | 2035.8 |
| 65° | 3671.9 | 2393.9 | 2107.4 | 2077.3 | 2133.8 | 2231.8 | 2265.7 | 2084.8 | 1907.6 | 1869.9 | 1858.6 |
| 67.5° | 2167.7 | 1979.2 | 1903.8 | 1854.8 | 1836.0 | 1896.3 | 1922.7 | 1817.1 | 1639.9 | 1587.2 | 1632.4 |
| 70° | 1813.4 | 1760.6 | 1764.3 | 1681.4 | 1636.2 | 1594.7 | 1572.1 | 1477.8 | 1330.8 | 1262.9 | 1244.1 |
| 72.5° | 1564.5 | 1541.9 | 1526.8 | 1451.4 | 1410.0 | 1315.7 | 1217.7 | 1123.4 | 1014.1 | 957.6 | 961.3 |
| 75° | 1195.1 | 1187.5 | 1195.1 | 1157.4 | 1085.7 | 1010.4 | 919.9 | 799.2 | 716.3 | 644.7 | 659.7 |
| 77.5° | 712.5 | 735.1 | 746.5 | 731.4 | 701.2 | 633.4 | 576.8 | 497.6 | 418.5 | 361.9 | 354.4 |
| 80° | 490.1 | 508.9 | 527.8 | 508.9 | 478.8 | 429.8 | 369.5 | 309.1 | 252.6 | 222.4 | 214.9 |
| 82.5° | 373.2 | 392.1 | 403.4 | 384.5 | 346.8 | 294.1 | 252.6 | 211.1 | 165.9 | 135.7 | 128.2 |
| 85° | 135.7 | 154.6 | 150.8 | 181.0 | 196.0 | 188.5 | 162.1 | 124.4 | 94.2 | 67.9 | 64.1 |
| 87.5° | 37.7 | 33.9 | 37.7 | 37.7 | 37.7 | 33.9 | 30.2 | 30.2 | 30.2 | 18.8 | 15.1 |
| 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)