

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: P533047

Luminaire Tested: **GALN-SA8C-722-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-722-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23071 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

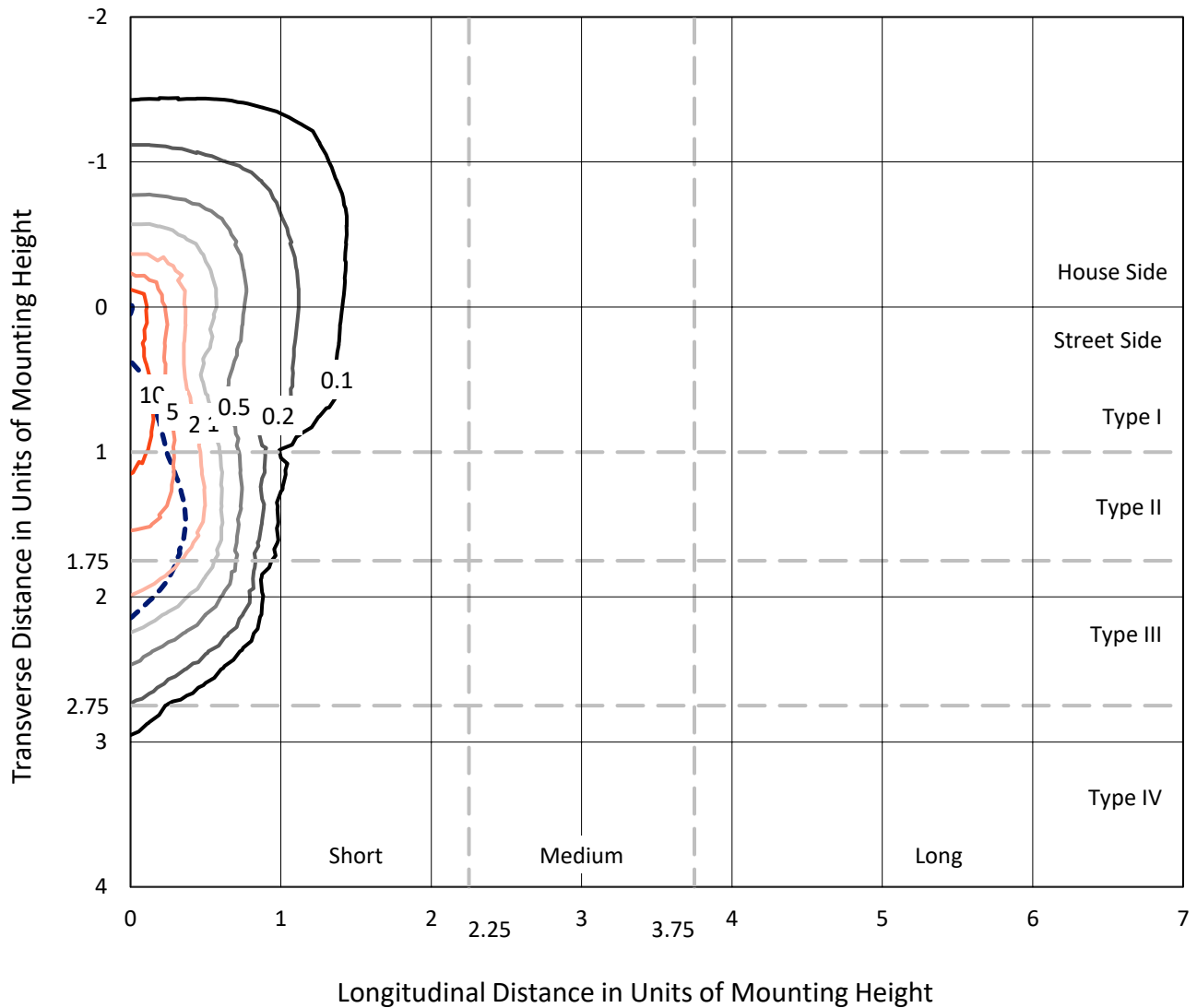
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533047
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Iso-Footcandle Lines of Horizontal Illumination

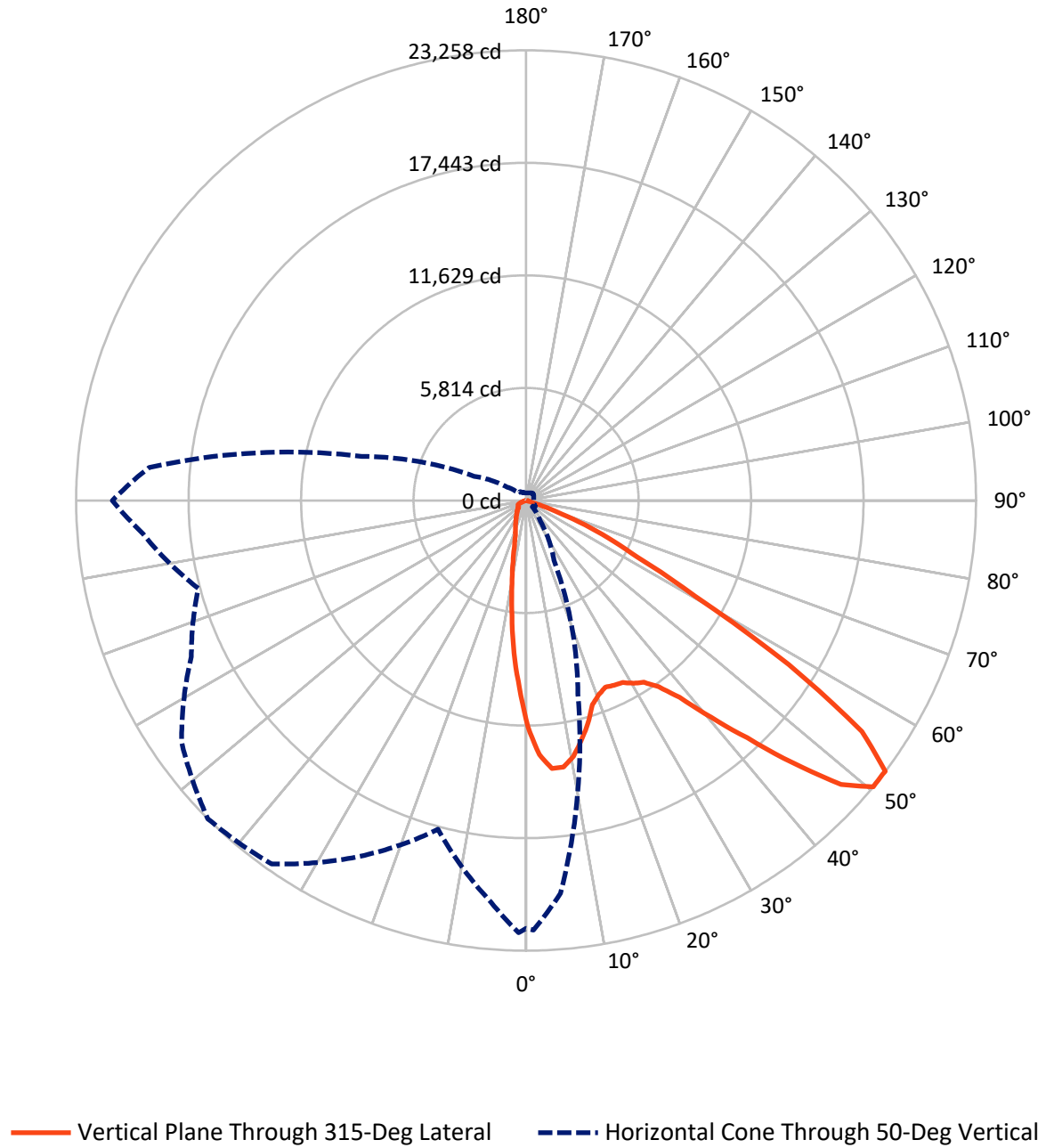
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4621.1 | 0.0 | 4621.1 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 18449.9 | 0.0 | 18449.9 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 23071.0 | 0.0 | 23071.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 852.8 | 3.7 |
| 10°-20° | 1694.9 | 7.3 |
| 20°-30° | 2546.3 | 11.0 |
| 30°-40° | 3821.9 | 16.6 |
| 40°-50° | 5371.4 | 23.3 |
| 50°-60° | 5794.0 | 25.1 |
| 60°-70° | 2690.1 | 11.7 |
| 70°-80° | 253.1 | 1.1 |
| 80°-90° | 46.7 | 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° | 23071.0 | 100.0 |
| 0°-180° | 23071.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P533047

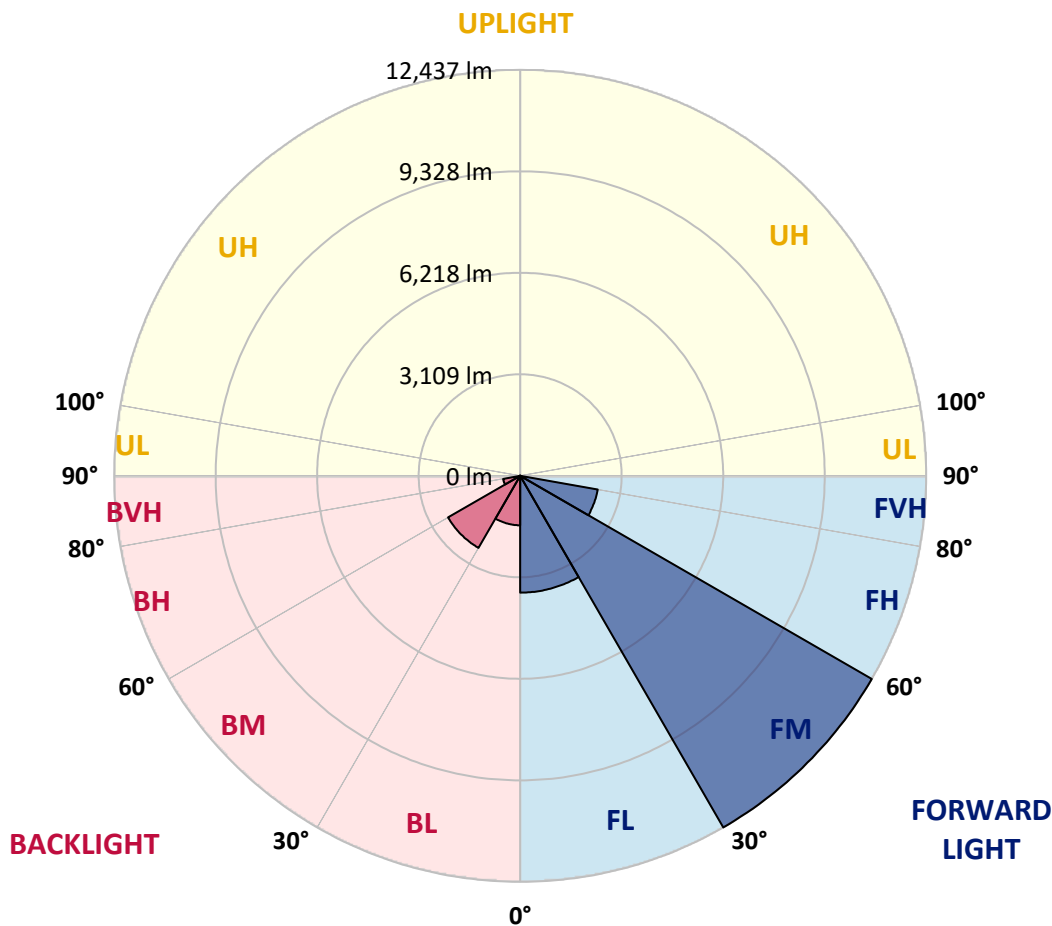
CATALOG NUMBER: GALN-SA8C-722-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3579.3 | 15.5 | | | |
| FM (30°-60°) | 12437.0 | 53.9 | | | |
| FH (60°-80°) | 2412.6 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 21.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1514.7 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2550.2 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 530.6 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 25.6 | 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-G2

Type III Short





REPORT NUMBER: P533047

CATALOG NUMBER: GALN-SA8C-722-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 |
| 2.5° | 12162.2 | 11974.6 | 11736.5 | 11539.7 | 11246.7 | 10656.3 | 10496.0 | 10303.8 | 10143.6 | 9928.4 | 9626.3 |
| 5° | 11059.1 | 10999.6 | 10889.7 | 10148.2 | 9612.6 | 8898.5 | 8312.6 | 8065.4 | 7740.4 | 7474.9 | 7282.7 |
| 7.5° | 10216.8 | 9978.8 | 9630.9 | 8884.8 | 8028.8 | 7264.4 | 6614.4 | 6234.5 | 5804.2 | 5657.7 | 5396.8 |
| 10° | 9315.1 | 9370.0 | 8857.3 | 7809.1 | 6774.6 | 6156.6 | 5753.8 | 5387.6 | 4998.6 | 4742.2 | 4371.4 |
| 12.5° | 9026.7 | 8848.2 | 8454.5 | 7159.1 | 6275.7 | 5698.9 | 5209.1 | 4755.9 | 4344.0 | 3932.0 | 3575.0 |
| 15° | 9214.4 | 8939.7 | 8390.4 | 7021.8 | 5891.1 | 5172.5 | 4559.1 | 3945.7 | 3565.8 | 3039.4 | 2668.6 |
| 17.5° | 9887.2 | 9667.5 | 8930.6 | 7168.3 | 5694.3 | 4669.0 | 3758.1 | 3126.4 | 2545.0 | 2069.0 | 1881.3 |
| 20° | 11008.7 | 10697.4 | 9772.8 | 7355.9 | 5401.4 | 4060.2 | 3048.6 | 2270.4 | 1721.1 | 1519.7 | 1414.4 |
| 22.5° | 12107.3 | 11937.9 | 10770.7 | 7717.5 | 5140.5 | 3520.0 | 2288.7 | 1528.9 | 1286.3 | 1249.6 | 1181.0 |
| 25° | 14199.2 | 13691.1 | 12295.0 | 8372.1 | 4939.0 | 3011.9 | 1725.7 | 1231.3 | 1089.4 | 1062.0 | 1071.1 |
| 27.5° | 15444.2 | 15018.5 | 13704.8 | 8807.0 | 4714.8 | 2622.9 | 1460.2 | 1130.6 | 1034.5 | 975.0 | 952.1 |
| 30° | 16638.9 | 16144.6 | 14405.2 | 9063.3 | 4234.1 | 2210.9 | 1295.4 | 1084.9 | 1062.0 | 975.0 | 947.5 |
| 32.5° | 17559.0 | 17073.8 | 15416.8 | 9447.8 | 4037.3 | 1945.4 | 1066.5 | 846.8 | 787.3 | 778.2 | 860.6 |
| 35° | 18968.9 | 18451.6 | 16281.9 | 9658.4 | 3886.2 | 1808.1 | 924.6 | 755.3 | 686.6 | 659.1 | 663.7 |
| 37.5° | 20282.6 | 19930.1 | 17083.0 | 9740.8 | 3726.0 | 1766.9 | 828.5 | 677.5 | 618.0 | 599.6 | 595.1 |
| 40° | 21381.2 | 20593.8 | 17842.8 | 9827.7 | 3657.4 | 1689.1 | 769.0 | 618.0 | 576.8 | 549.3 | 549.3 |
| 42.5° | 21884.7 | 21083.6 | 18694.2 | 9777.4 | 3639.1 | 1565.5 | 769.0 | 567.6 | 535.6 | 508.1 | 503.5 |
| 45° | 21774.8 | 21449.8 | 19074.1 | 9754.5 | 3639.1 | 1441.9 | 700.3 | 553.9 | 508.1 | 471.5 | 462.3 |
| 47.5° | 22058.6 | 21632.9 | 19550.2 | 9850.6 | 3565.8 | 1354.9 | 590.5 | 581.3 | 480.6 | 434.9 | 425.7 |
| 50° | 22109.0 | 22191.4 | 20378.7 | 10349.6 | 3405.6 | 1245.1 | 462.3 | 572.2 | 462.3 | 393.7 | 384.5 |
| 52° | 22438.6 | 21925.9 | 20630.5 | 10615.1 | 3236.2 | 1162.7 | 389.1 | 489.8 | 444.0 | 366.2 | 357.0 |
| 52.5° | 21985.4 | 22319.5 | 20690.0 | 10711.2 | 3254.6 | 1107.7 | 375.3 | 480.6 | 434.9 | 366.2 | 343.3 |
| 55° | 21477.3 | 21797.7 | 20447.4 | 10917.2 | 2984.5 | 869.7 | 293.0 | 347.9 | 393.7 | 320.4 | 306.7 |
| 57.5° | 18666.8 | 18991.7 | 17769.6 | 9997.1 | 2430.6 | 613.4 | 242.6 | 260.9 | 347.9 | 297.5 | 283.8 |
| 60° | 16593.2 | 16359.7 | 14913.3 | 8340.1 | 1725.7 | 343.3 | 192.3 | 201.4 | 379.9 | 274.6 | 270.1 |
| 62.5° | 15165.0 | 14666.1 | 12464.3 | 6440.4 | 1052.8 | 228.9 | 151.1 | 155.6 | 293.0 | 256.3 | 256.3 |
| 65° | 11219.3 | 10660.8 | 8280.6 | 3895.4 | 517.2 | 160.2 | 114.4 | 123.6 | 183.1 | 219.7 | 219.7 |
| 67.5° | 6403.8 | 6188.7 | 4000.7 | 1757.7 | 215.1 | 100.7 | 87.0 | 96.1 | 141.9 | 178.5 | 169.4 |
| 70° | 2943.3 | 2641.2 | 1538.0 | 370.8 | 100.7 | 68.7 | 68.7 | 77.8 | 114.4 | 132.7 | 123.6 |
| 72.5° | 860.6 | 814.8 | 375.3 | 59.5 | 41.2 | 41.2 | 45.8 | 59.5 | 87.0 | 100.7 | 91.5 |
| 75° | 64.1 | 41.2 | 27.5 | 18.3 | 18.3 | 27.5 | 36.6 | 59.5 | 87.0 | 96.1 | 77.8 |
| 77.5° | 4.6 | 9.2 | 4.6 | 4.6 | 13.7 | 27.5 | 41.2 | 73.2 | 114.4 | 119.0 | 87.0 |
| 80° | 4.6 | 4.6 | 0.0 | 4.6 | 13.7 | 27.5 | 45.8 | 82.4 | 128.2 | 137.3 | 73.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 4.6 | 18.3 | 36.6 | 54.9 | 87.0 | 119.0 | 146.5 | 77.8 |
| 85° | 0.0 | 0.0 | 0.0 | 4.6 | 27.5 | 50.4 | 64.1 | 22.9 | 13.7 | 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 |



REPORT NUMBER: P533047

CATALOG NUMBER: GALN-SA8C-722-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 |
| 2.5° | 9841.5 | 9722.5 | 9676.7 | 9717.9 | 9704.1 | 9690.4 | 9942.2 | 9887.2 | 9878.1 | 9960.5 | 9942.2 |
| 5° | 7388.0 | 7177.4 | 7754.2 | 7520.7 | 7763.3 | 7909.8 | 7937.3 | 7951.0 | 8120.4 | 7941.8 | 8175.3 |
| 7.5° | 5264.0 | 5319.0 | 5314.4 | 5470.0 | 5749.2 | 5996.4 | 6142.9 | 6028.5 | 6019.3 | 5996.4 | 5895.7 |
| 10° | 4206.7 | 4110.5 | 4092.2 | 4055.6 | 4142.6 | 4353.1 | 4531.7 | 4389.8 | 4289.0 | 4426.4 | 4385.2 |
| 12.5° | 3437.6 | 3304.9 | 3231.7 | 3085.2 | 3089.8 | 3231.7 | 3231.7 | 3231.7 | 3332.4 | 3410.2 | 3469.7 |
| 15° | 2636.6 | 2526.7 | 2526.7 | 2380.3 | 2348.2 | 2352.8 | 2426.0 | 2435.2 | 2595.4 | 2641.2 | 2664.1 |
| 17.5° | 1844.7 | 1785.2 | 1853.9 | 1913.4 | 1876.7 | 1885.9 | 1913.4 | 1922.5 | 1945.4 | 1927.1 | 1972.9 |
| 20° | 1419.0 | 1409.8 | 1428.2 | 1533.4 | 1611.3 | 1657.0 | 1625.0 | 1579.2 | 1551.7 | 1487.7 | 1487.7 |
| 22.5° | 1203.9 | 1222.2 | 1254.2 | 1341.2 | 1441.9 | 1469.4 | 1432.7 | 1327.5 | 1245.1 | 1235.9 | 1240.5 |
| 25° | 1071.1 | 1089.4 | 1139.8 | 1194.7 | 1249.6 | 1295.4 | 1258.8 | 1181.0 | 1135.2 | 1094.0 | 1094.0 |
| 27.5° | 988.7 | 997.9 | 1025.3 | 1066.5 | 1112.3 | 1148.9 | 1135.2 | 1094.0 | 1043.7 | 1025.3 | 984.1 |
| 30° | 924.6 | 938.4 | 970.4 | 979.6 | 1020.8 | 1039.1 | 1016.2 | 1007.0 | 975.0 | 952.1 | 938.4 |
| 32.5° | 892.6 | 888.0 | 910.9 | 920.1 | 924.6 | 938.4 | 910.9 | 924.6 | 920.1 | 883.4 | 869.7 |
| 35° | 672.9 | 709.5 | 769.0 | 819.4 | 833.1 | 851.4 | 846.8 | 828.5 | 778.2 | 737.0 | 686.6 |
| 37.5° | 604.2 | 627.1 | 659.1 | 700.3 | 755.3 | 778.2 | 769.0 | 723.2 | 663.7 | 636.3 | 627.1 |
| 40° | 558.4 | 572.2 | 599.6 | 627.1 | 682.0 | 723.2 | 691.2 | 650.0 | 604.2 | 581.3 | 567.6 |
| 42.5° | 517.2 | 521.8 | 535.6 | 563.0 | 604.2 | 668.3 | 613.4 | 558.4 | 540.1 | 526.4 | 517.2 |
| 45° | 471.5 | 471.5 | 489.8 | 503.5 | 549.3 | 608.8 | 553.9 | 503.5 | 494.4 | 485.2 | 480.6 |
| 47.5° | 434.9 | 439.4 | 448.6 | 466.9 | 503.5 | 544.7 | 508.1 | 466.9 | 444.0 | 439.4 | 430.3 |
| 50° | 389.1 | 393.7 | 412.0 | 430.3 | 476.1 | 498.9 | 476.1 | 430.3 | 407.4 | 393.7 | 393.7 |
| 52° | 352.5 | 366.2 | 384.5 | 421.1 | 453.2 | 489.8 | 462.3 | 412.0 | 384.5 | 370.8 | 361.6 |
| 52.5° | 347.9 | 357.0 | 375.3 | 416.5 | 453.2 | 485.2 | 457.7 | 407.4 | 375.3 | 366.2 | 357.0 |
| 55° | 311.3 | 325.0 | 357.0 | 407.4 | 448.6 | 485.2 | 448.6 | 402.8 | 357.0 | 334.2 | 325.0 |
| 57.5° | 297.5 | 306.7 | 347.9 | 412.0 | 444.0 | 485.2 | 448.6 | 402.8 | 357.0 | 315.8 | 306.7 |
| 60° | 283.8 | 302.1 | 347.9 | 398.2 | 439.4 | 489.8 | 453.2 | 398.2 | 347.9 | 297.5 | 297.5 |
| 62.5° | 270.1 | 283.8 | 343.3 | 389.1 | 421.1 | 471.5 | 434.9 | 389.1 | 334.2 | 283.8 | 279.2 |
| 65° | 233.4 | 256.3 | 302.1 | 325.0 | 361.6 | 407.4 | 370.8 | 338.7 | 293.0 | 251.8 | 247.2 |
| 67.5° | 178.5 | 187.7 | 224.3 | 251.8 | 274.6 | 315.8 | 297.5 | 256.3 | 224.3 | 192.3 | 192.3 |
| 70° | 123.6 | 132.7 | 160.2 | 173.9 | 196.8 | 219.7 | 206.0 | 173.9 | 151.1 | 132.7 | 128.2 |
| 72.5° | 87.0 | 91.5 | 100.7 | 109.9 | 119.0 | 128.2 | 123.6 | 100.7 | 87.0 | 82.4 | 77.8 |
| 75° | 68.7 | 77.8 | 82.4 | 77.8 | 73.2 | 68.7 | 68.7 | 59.5 | 50.4 | 45.8 | 45.8 |
| 77.5° | 68.7 | 73.2 | 68.7 | 59.5 | 50.4 | 45.8 | 41.2 | 36.6 | 27.5 | 22.9 | 27.5 |
| 80° | 59.5 | 59.5 | 59.5 | 50.4 | 45.8 | 41.2 | 36.6 | 32.0 | 27.5 | 22.9 | 22.9 |
| 82.5° | 64.1 | 64.1 | 59.5 | 50.4 | 50.4 | 41.2 | 41.2 | 36.6 | 32.0 | 22.9 | 22.9 |
| 85° | 0.0 | 0.0 | 0.0 | 9.2 | 22.9 | 41.2 | 41.2 | 36.6 | 32.0 | 27.5 | 27.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 9.2 | 18.3 | 22.9 | 27.5 | 27.5 | 27.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P533047

CATALOG NUMBER: GALN-SA8C-722-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 |
| 2.5° | 10107.0 | 10280.9 | 10610.5 | 10940.1 | 11141.5 | 11379.5 | 11809.8 | 12038.6 | 12336.2 | 12482.6 | 12771.0 |
| 5° | 8143.2 | 8555.2 | 8701.7 | 9077.0 | 9479.9 | 9882.7 | 10523.5 | 11228.4 | 11814.3 | 12217.2 | 12739.0 |
| 7.5° | 5941.5 | 6037.6 | 6605.2 | 6857.0 | 7516.1 | 8248.5 | 9122.8 | 10010.8 | 10752.4 | 11411.5 | 11809.8 |
| 10° | 4453.8 | 4806.3 | 5163.3 | 5644.0 | 6174.9 | 6930.2 | 7767.9 | 8747.5 | 9708.7 | 10367.9 | 10871.4 |
| 12.5° | 3579.5 | 3858.8 | 4334.8 | 4852.1 | 5506.6 | 6005.6 | 6847.8 | 7818.2 | 9063.3 | 9708.7 | 10372.5 |
| 15° | 2709.8 | 3066.9 | 3607.0 | 4142.6 | 4833.8 | 5360.2 | 6211.6 | 7433.7 | 9035.8 | 9923.9 | 10496.0 |
| 17.5° | 2009.5 | 2252.1 | 2737.3 | 3336.9 | 4041.9 | 4783.4 | 5932.3 | 7392.5 | 9342.5 | 10399.9 | 10990.4 |
| 20° | 1538.0 | 1620.4 | 1927.1 | 2462.7 | 3227.1 | 4197.5 | 5479.2 | 7571.1 | 10248.9 | 11558.0 | 12157.6 |
| 22.5° | 1245.1 | 1281.7 | 1400.7 | 1771.5 | 2513.0 | 3684.8 | 5264.0 | 7694.7 | 11269.6 | 12945.0 | 13746.0 |
| 25° | 1084.9 | 1075.7 | 1153.5 | 1313.7 | 1963.7 | 3204.2 | 4989.4 | 8161.6 | 12519.3 | 14574.5 | 15293.2 |
| 27.5° | 988.7 | 988.7 | 1025.3 | 1139.8 | 1629.6 | 2892.9 | 4815.5 | 8495.7 | 13778.1 | 16007.3 | 16396.3 |
| 30° | 938.4 | 947.5 | 1052.8 | 1089.4 | 1354.9 | 2522.2 | 4527.1 | 8834.4 | 14981.9 | 16922.8 | 17458.3 |
| 32.5° | 869.7 | 833.1 | 810.2 | 901.8 | 1139.8 | 2188.0 | 4238.7 | 8976.3 | 15956.9 | 18044.2 | 18502.0 |
| 35° | 668.3 | 650.0 | 677.5 | 746.1 | 979.6 | 1904.2 | 3918.3 | 9136.5 | 17078.4 | 19344.2 | 19435.8 |
| 37.5° | 604.2 | 599.6 | 618.0 | 677.5 | 823.9 | 1657.0 | 3689.4 | 9095.3 | 17934.4 | 20419.9 | 20172.7 |
| 40° | 558.4 | 558.4 | 572.2 | 622.5 | 737.0 | 1483.1 | 3451.4 | 9058.7 | 18762.9 | 21628.3 | 20905.1 |
| 42.5° | 521.8 | 521.8 | 544.7 | 576.8 | 700.3 | 1368.7 | 3272.9 | 9008.4 | 19458.6 | 22369.9 | 21335.4 |
| 45° | 471.5 | 485.2 | 521.8 | 553.9 | 709.5 | 1290.8 | 3140.1 | 8816.1 | 19696.7 | 22360.7 | 21129.4 |
| 47.5° | 434.9 | 453.2 | 489.8 | 535.6 | 640.8 | 1267.9 | 3048.6 | 8646.8 | 19614.3 | 21811.4 | 20484.0 |
| 50° | 393.7 | 416.5 | 466.9 | 544.7 | 544.7 | 1222.2 | 2952.4 | 8797.8 | 19554.8 | 21385.7 | 19866.0 |
| 52° | 366.2 | 384.5 | 448.6 | 531.0 | 476.1 | 1126.0 | 2892.9 | 9090.8 | 19797.4 | 21330.8 | 19591.4 |
| 52.5° | 361.6 | 375.3 | 434.9 | 521.8 | 453.2 | 1107.7 | 2851.7 | 9159.4 | 19875.2 | 21193.5 | 19779.1 |
| 55° | 320.4 | 338.7 | 398.2 | 407.4 | 370.8 | 910.9 | 2719.0 | 9315.1 | 19490.7 | 20923.4 | 19600.5 |
| 57.5° | 302.1 | 311.3 | 352.5 | 334.2 | 320.4 | 686.6 | 2339.1 | 9072.5 | 17311.8 | 18584.4 | 18236.5 |
| 60° | 279.2 | 288.4 | 329.6 | 260.9 | 270.1 | 480.6 | 1757.7 | 7877.8 | 13901.6 | 15485.4 | 16112.5 |
| 62.5° | 270.1 | 265.5 | 311.3 | 210.6 | 228.9 | 347.9 | 1240.5 | 6403.8 | 10711.2 | 12748.1 | 13833.0 |
| 65° | 238.0 | 233.4 | 224.3 | 178.5 | 196.8 | 270.1 | 741.5 | 4179.2 | 7548.2 | 9644.6 | 10239.7 |
| 67.5° | 183.1 | 192.3 | 164.8 | 141.9 | 164.8 | 210.6 | 412.0 | 1872.2 | 3959.5 | 5785.9 | 6266.5 |
| 70° | 128.2 | 137.3 | 132.7 | 123.6 | 146.5 | 173.9 | 238.0 | 640.8 | 1638.7 | 3039.4 | 3350.7 |
| 72.5° | 77.8 | 96.1 | 100.7 | 105.3 | 128.2 | 151.1 | 169.4 | 206.0 | 434.9 | 1075.7 | 1336.6 |
| 75° | 45.8 | 64.1 | 77.8 | 91.5 | 105.3 | 128.2 | 141.9 | 146.5 | 151.1 | 201.4 | 325.0 |
| 77.5° | 32.0 | 45.8 | 68.7 | 87.0 | 105.3 | 128.2 | 151.1 | 160.2 | 151.1 | 141.9 | 151.1 |
| 80° | 27.5 | 45.8 | 64.1 | 82.4 | 109.9 | 132.7 | 151.1 | 151.1 | 146.5 | 128.2 | 137.3 |
| 82.5° | 27.5 | 45.8 | 68.7 | 87.0 | 105.3 | 128.2 | 146.5 | 151.1 | 137.3 | 128.2 | 132.7 |
| 85° | 32.0 | 50.4 | 73.2 | 91.5 | 114.4 | 105.3 | 96.1 | 77.8 | 73.2 | 59.5 | 64.1 |
| 87.5° | 32.0 | 45.8 | 45.8 | 50.4 | 54.9 | 54.9 | 54.9 | 50.4 | 41.2 | 36.6 | 36.6 |
| 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° | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 | 11699.9 |
| 2.5° | 12784.8 | 13150.9 | 13137.2 | 13146.4 | 13091.4 | 12720.7 | 12542.2 | 12089.0 | 12217.2 | 12162.2 |
| 5° | 13274.5 | 13636.2 | 13947.4 | 13910.8 | 13489.7 | 12986.2 | 12240.0 | 11535.1 | 11342.9 | 11059.1 |
| 7.5° | 12784.8 | 13654.5 | 13942.8 | 13901.6 | 13279.1 | 12633.7 | 11443.6 | 10738.6 | 10404.5 | 10216.8 |
| 10° | 12006.6 | 13013.6 | 13370.7 | 13443.9 | 13022.8 | 12043.2 | 10949.2 | 9818.6 | 9640.1 | 9315.1 |
| 12.5° | 11562.6 | 12295.0 | 12514.7 | 12711.5 | 12565.0 | 11832.7 | 10573.9 | 9489.0 | 9241.8 | 9026.7 |
| 15° | 11201.0 | 11635.8 | 11727.4 | 11951.7 | 12038.6 | 11645.0 | 10770.7 | 9846.0 | 9237.2 | 9214.4 |
| 17.5° | 11535.1 | 11356.6 | 11022.4 | 11091.1 | 11365.8 | 11649.6 | 11278.8 | 10551.0 | 9960.5 | 9887.2 |
| 20° | 12089.0 | 11301.7 | 10546.4 | 10715.8 | 10944.6 | 11814.3 | 12047.8 | 11535.1 | 11196.4 | 11008.7 |
| 22.5° | 12725.2 | 11397.8 | 10395.3 | 10477.7 | 10912.6 | 12185.1 | 13292.9 | 13009.0 | 12377.4 | 12107.3 |
| 25° | 13901.6 | 11663.3 | 10514.4 | 10569.3 | 11164.3 | 12702.4 | 14418.9 | 14629.5 | 14254.1 | 14199.2 |
| 27.5° | 15050.6 | 12349.9 | 10775.3 | 10651.7 | 11292.5 | 13205.9 | 15100.9 | 16231.6 | 15572.4 | 15444.2 |
| 30° | 15636.5 | 12908.3 | 11164.3 | 10953.8 | 11823.5 | 13512.6 | 15512.9 | 17275.2 | 16698.5 | 16638.9 |
| 32.5° | 16533.7 | 13416.4 | 11466.5 | 11196.4 | 12121.0 | 13892.5 | 16281.9 | 18415.0 | 17856.5 | 17559.0 |
| 35° | 16909.0 | 13970.3 | 12130.2 | 11814.3 | 12972.4 | 14423.5 | 16675.6 | 19431.2 | 19257.2 | 18968.9 |
| 37.5° | 17632.3 | 14565.4 | 12912.9 | 12894.6 | 14002.4 | 15114.7 | 17385.1 | 20813.6 | 20781.5 | 20282.6 |
| 40° | 17691.8 | 15215.4 | 14148.8 | 14725.6 | 15595.3 | 16318.5 | 18007.6 | 21198.1 | 21719.9 | 21381.2 |
| 42.5° | 17783.3 | 16355.1 | 16286.5 | 16762.5 | 17508.7 | 17353.0 | 18030.5 | 21289.6 | 22086.1 | 21884.7 |
| 45° | 17824.5 | 17494.9 | 18460.8 | 19339.6 | 19650.9 | 18707.9 | 17815.3 | 21115.7 | 22278.3 | 21774.8 |
| 47.5° | 17494.9 | 18474.5 | 20218.5 | 21916.7 | 22008.3 | 19541.0 | 17723.8 | 20937.2 | 22392.8 | 22058.6 |
| 50° | 17540.7 | 19087.9 | 21738.2 | 23257.9 | 22923.8 | 20278.0 | 17581.9 | 20827.3 | 22333.3 | 22109.0 |
| 52° | 17430.8 | 19101.6 | 21953.3 | 23230.4 | 22997.0 | 19870.6 | 17339.3 | 20406.2 | 22278.3 | 22438.6 |
| 52.5° | 17554.4 | 19019.2 | 21729.0 | 23248.8 | 22946.6 | 20072.0 | 17307.3 | 20639.6 | 22310.4 | 21985.4 |
| 55° | 17128.7 | 18039.6 | 20415.3 | 21060.7 | 21015.0 | 18218.2 | 16323.1 | 19866.0 | 21472.7 | 21477.3 |
| 57.5° | 15480.9 | 15636.5 | 16011.8 | 15998.1 | 15787.5 | 14322.8 | 13961.2 | 18268.5 | 19142.8 | 18666.8 |
| 60° | 13640.7 | 11448.1 | 10436.5 | 10024.6 | 9791.1 | 9553.1 | 12349.9 | 16712.2 | 16794.6 | 16593.2 |
| 62.5° | 11786.9 | 7937.3 | 6591.5 | 6477.1 | 6532.0 | 7401.7 | 11937.9 | 16094.2 | 15599.9 | 15165.0 |
| 65° | 9511.9 | 5785.9 | 4788.0 | 4636.9 | 5172.5 | 6110.9 | 9662.9 | 12340.7 | 11580.9 | 11219.3 |
| 67.5° | 5973.5 | 4220.4 | 3236.2 | 2952.4 | 3597.9 | 4206.7 | 6348.9 | 7754.2 | 6902.8 | 6403.8 |
| 70° | 3542.9 | 2357.4 | 1464.8 | 1313.7 | 1478.5 | 2242.9 | 3556.7 | 3867.9 | 3199.6 | 2943.3 |
| 72.5° | 1396.1 | 865.1 | 407.4 | 347.9 | 361.6 | 787.3 | 1309.1 | 1277.1 | 965.8 | 860.6 |
| 75° | 375.3 | 260.9 | 141.9 | 114.4 | 96.1 | 146.5 | 210.6 | 137.3 | 50.4 | 64.1 |
| 77.5° | 173.9 | 155.6 | 123.6 | 96.1 | 73.2 | 54.9 | 27.5 | 9.2 | 9.2 | 4.6 |
| 80° | 151.1 | 132.7 | 114.4 | 96.1 | 73.2 | 45.8 | 22.9 | 4.6 | 4.6 | 4.6 |
| 82.5° | 141.9 | 123.6 | 105.3 | 87.0 | 68.7 | 45.8 | 22.9 | 4.6 | 0.0 | 0.0 |
| 85° | 59.5 | 77.8 | 87.0 | 82.4 | 73.2 | 45.8 | 22.9 | 4.6 | 0.0 | 0.0 |
| 87.5° | 32.0 | 27.5 | 22.9 | 18.3 | 13.7 | 9.2 | 9.2 | 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 |

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