

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: P457418

Luminaire Tested: **GALN-SA8D-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56787 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

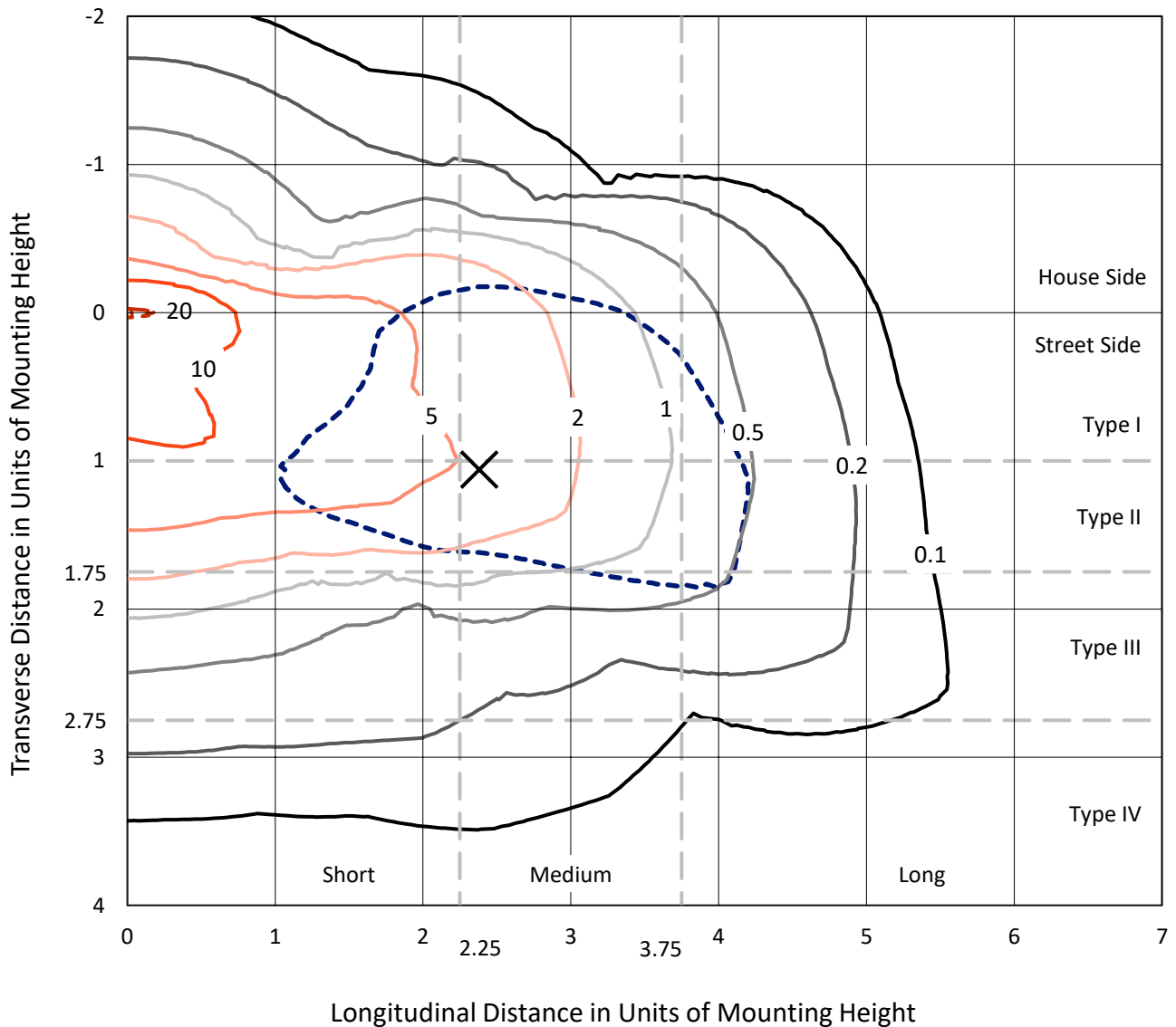
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457418
 CATALOG NUMBER: GALN-SA8D-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

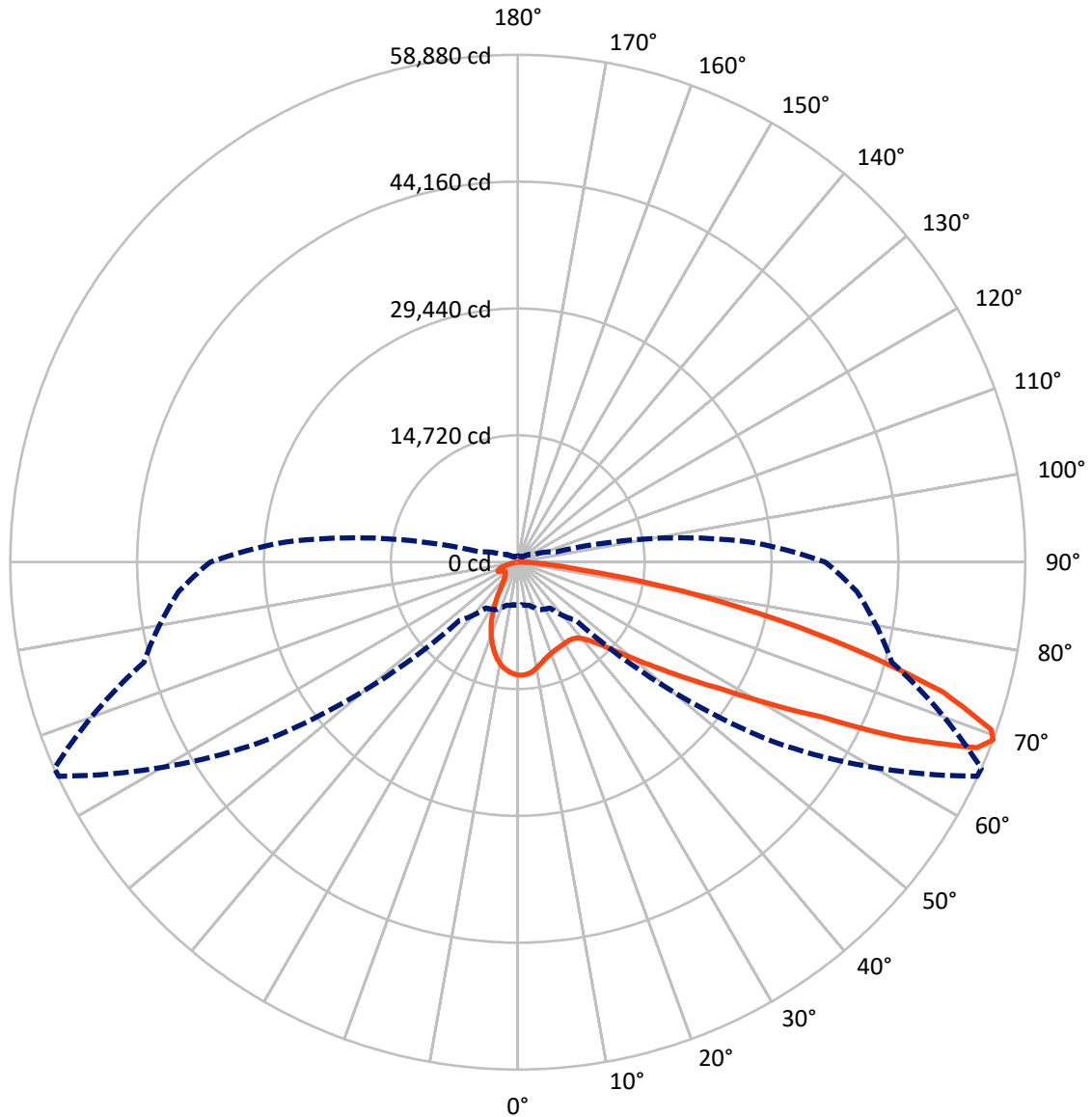
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

REPORT NUMBER: P457418
CATALOG NUMBER: GALN-SA8D-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P457418

CATALOG NUMBER: GALN-SA8D-730-U-SL2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10679.5 | 0.0 | 10679.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 46107.5 | 0.0 | 46107.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 56787.0 | 0.0 | 56787.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1138.8 | 2.0 |
| 10°-20° | 2701.1 | 4.8 |
| 20°-30° | 3677.2 | 6.5 |
| 30°-40° | 4941.3 | 8.7 |
| 40°-50° | 7378.2 | 13.0 |
| 50°-60° | 11736.3 | 20.7 |
| 60°-70° | 14435.0 | 25.4 |
| 70°-80° | 9392.1 | 16.5 |
| 80°-90° | 1386.9 | 2.4 |
| 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° | 56787.0 | 100.0 |
| 0°-180° | 56787.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457418

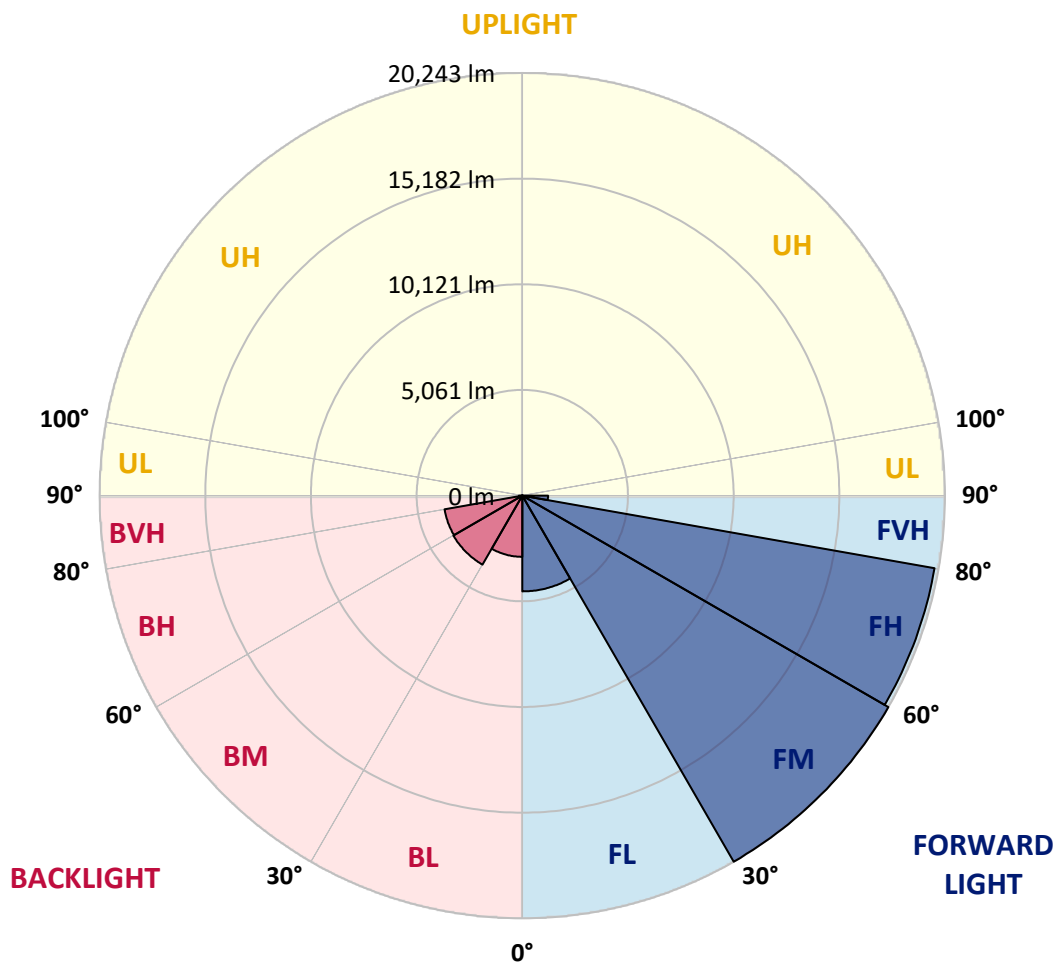
CATALOG NUMBER: GALN-SA8D-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4585.5 | 8.1 | | | |
| FM | (30°-60°) | 20242.9 | 35.6 | | | |
| FH | (60°-80°) | 20046.1 | 35.3 | | | G5 |
| FVH | (80°-90°) | 1233.1 | 2.2 | | | G5 |
| BL | (0°-30°) | 2931.6 | 5.2 | B4/5000 | | |
| BM | (30°-60°) | 3813.0 | 6.7 | B3/5000 | | |
| BH | (60°-80°) | 3781.0 | 6.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 153.9 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P457418

CATALOG NUMBER: GALN-SA8D-730-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 |
| 2.5° | 12654.6 | 12704.9 | 12761.5 | 12824.4 | 12943.9 | 13009.9 | 13057.1 | 13110.6 | 13116.8 | 13145.1 | 13123.1 |
| 5° | 11720.6 | 11780.3 | 11865.2 | 11984.7 | 12164.0 | 12443.9 | 12733.2 | 12969.0 | 12997.3 | 13129.4 | 13167.2 |
| 7.5° | 10940.7 | 10975.3 | 11044.4 | 11236.3 | 11491.0 | 11802.3 | 12223.7 | 12701.7 | 12770.9 | 13085.4 | 13195.5 |
| 10° | 10305.4 | 10340.0 | 10421.8 | 10619.9 | 10871.5 | 11261.4 | 11723.7 | 12352.7 | 12409.3 | 12950.2 | 13201.7 |
| 12.5° | 9830.6 | 9862.0 | 9950.1 | 10145.0 | 10434.4 | 10799.1 | 11308.6 | 11975.3 | 12057.1 | 12770.9 | 13142.0 |
| 15° | 9468.9 | 9528.7 | 9601.0 | 9761.4 | 10066.4 | 10418.6 | 10912.4 | 11629.4 | 11695.4 | 12582.2 | 13101.1 |
| 17.5° | 9314.8 | 9343.1 | 9393.4 | 9541.2 | 9764.5 | 10110.4 | 10607.3 | 11358.9 | 11437.5 | 12450.1 | 13091.7 |
| 20° | 9321.1 | 9349.4 | 9358.8 | 9440.6 | 9601.0 | 9899.7 | 10390.3 | 11145.1 | 11239.4 | 12333.8 | 13107.4 |
| 22.5° | 9534.9 | 9538.1 | 9503.5 | 9475.2 | 9538.1 | 9786.5 | 10236.2 | 10984.7 | 11094.8 | 12283.5 | 13120.0 |
| 25° | 9865.1 | 9921.8 | 9871.4 | 9739.4 | 9623.0 | 9742.5 | 10176.5 | 10896.6 | 11000.4 | 12211.1 | 13104.3 |
| 27.5° | 10399.8 | 10409.2 | 10368.3 | 10189.1 | 9887.2 | 9799.1 | 10151.3 | 10830.6 | 10918.6 | 12157.7 | 13025.6 |
| 30° | 11116.8 | 11088.5 | 11050.7 | 10852.6 | 10377.7 | 10016.1 | 10204.8 | 10770.8 | 10862.0 | 12079.1 | 12931.3 |
| 32.5° | 11843.2 | 11931.3 | 11896.7 | 11664.0 | 11047.6 | 10437.5 | 10377.7 | 10764.6 | 10840.0 | 12019.3 | 12827.5 |
| 35° | 12613.7 | 12654.6 | 12818.1 | 12698.6 | 12066.5 | 11119.9 | 10701.7 | 10862.0 | 10921.8 | 12022.5 | 12755.2 |
| 37.5° | 13217.5 | 13327.5 | 13711.2 | 13815.0 | 13220.6 | 12022.5 | 11226.8 | 11138.8 | 11163.9 | 12176.6 | 12783.5 |
| 40° | 13947.1 | 14135.7 | 14629.5 | 15054.0 | 14664.1 | 13195.5 | 12119.9 | 11651.4 | 11682.8 | 12547.6 | 12969.0 |
| 42.5° | 14871.6 | 15003.7 | 15667.3 | 16242.7 | 16179.8 | 14745.8 | 13201.7 | 12491.0 | 12506.8 | 13286.7 | 13487.9 |
| 45° | 15953.4 | 16142.1 | 16887.4 | 17752.2 | 17900.0 | 16500.6 | 14764.7 | 13761.5 | 13752.1 | 14434.5 | 14456.5 |
| 47.5° | 17337.1 | 17453.5 | 18192.5 | 19135.9 | 19733.4 | 18705.1 | 16661.0 | 15585.5 | 15484.9 | 16107.5 | 15928.3 |
| 50° | 18610.8 | 18793.2 | 19352.9 | 20384.4 | 21871.9 | 21287.0 | 19154.8 | 17950.4 | 17714.5 | 18296.3 | 17994.4 |
| 52.5° | 19145.4 | 19337.2 | 19808.9 | 21088.8 | 23705.3 | 24626.7 | 22321.6 | 20771.2 | 20378.1 | 20824.7 | 20714.6 |
| 55° | 18217.7 | 18466.1 | 18906.4 | 20463.0 | 24510.3 | 28479.0 | 26592.2 | 24032.3 | 23746.2 | 23554.3 | 23585.8 |
| 57.5° | 15723.9 | 15959.7 | 16554.1 | 18271.1 | 23548.0 | 31274.8 | 32689.9 | 28224.3 | 27611.1 | 26727.4 | 26878.4 |
| 60° | 11969.0 | 12116.8 | 12425.0 | 14327.6 | 20695.7 | 32001.2 | 39614.7 | 33523.3 | 33133.3 | 29887.9 | 29994.8 |
| 62.5° | 8500.3 | 8667.0 | 8880.8 | 9830.6 | 15151.5 | 29953.9 | 45036.3 | 40922.9 | 39529.8 | 33161.6 | 33057.8 |
| 65° | 6902.8 | 6789.6 | 7047.4 | 7490.8 | 8890.3 | 23214.7 | 46256.4 | 51193.7 | 49275.4 | 37473.1 | 36032.8 |
| 67.5° | 5676.3 | 5556.8 | 5811.5 | 6600.9 | 6761.3 | 13475.3 | 41860.1 | 57860.6 | 57477.0 | 42161.9 | 39054.9 |
| 69° | 5025.3 | 4962.4 | 5185.7 | 6085.1 | 6490.8 | 9569.5 | 36466.8 | 58788.4 | 58879.6 | 44926.2 | 39520.3 |
| 70° | 4528.5 | 4553.6 | 4770.6 | 5824.1 | 6368.2 | 7890.2 | 31167.8 | 57508.4 | 58282.0 | 46306.8 | 39017.2 |
| 72.5° | 3333.5 | 3386.9 | 3688.8 | 4824.1 | 6251.8 | 6695.2 | 18547.9 | 50231.4 | 51599.4 | 46388.5 | 35693.2 |
| 75° | 2330.3 | 2305.1 | 2572.4 | 3632.2 | 5905.9 | 6635.5 | 10893.5 | 38847.4 | 40397.7 | 40095.8 | 29991.7 |
| 77.5° | 1525.2 | 1566.1 | 1779.9 | 2566.1 | 4968.7 | 6585.2 | 7100.9 | 27560.8 | 28567.1 | 26815.5 | 17739.7 |
| 80° | 1075.5 | 1072.4 | 1191.9 | 1751.6 | 3685.7 | 6327.3 | 5814.7 | 17371.7 | 17117.0 | 10538.1 | 5261.2 |
| 82.5° | 616.4 | 660.4 | 798.8 | 1232.8 | 2465.5 | 5569.4 | 5349.3 | 8308.5 | 7585.2 | 3003.3 | 1776.8 |
| 85° | 342.8 | 358.5 | 474.9 | 745.3 | 1440.3 | 4195.1 | 4670.0 | 3780.0 | 3566.2 | 1254.8 | 764.2 |
| 87.5° | 110.1 | 119.5 | 198.1 | 377.4 | 654.1 | 1981.2 | 2644.8 | 1745.3 | 1610.1 | 452.8 | 308.2 |
| 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: P457418

CATALOG NUMBER: GALN-SA8D-730-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 | 13113.7 |
| 2.5° | 13132.6 | 13170.3 | 13069.7 | 12972.2 | 12884.1 | 12761.5 | 12651.4 | 12560.2 | 12497.3 | 12487.9 | 12456.4 |
| 5° | 13176.6 | 13179.7 | 12987.9 | 12730.0 | 12478.5 | 12201.7 | 11915.5 | 11711.1 | 11519.3 | 11412.4 | 11358.9 |
| 7.5° | 13208.0 | 13179.7 | 12833.8 | 12415.6 | 11931.3 | 11428.1 | 10924.9 | 10522.4 | 10211.1 | 10088.4 | 10135.6 |
| 10° | 13195.5 | 13107.4 | 12601.1 | 11931.3 | 11226.8 | 10475.2 | 9751.9 | 9185.9 | 8667.0 | 8399.7 | 8406.0 |
| 12.5° | 13126.3 | 12981.6 | 12255.2 | 11387.2 | 10352.6 | 9346.3 | 8239.3 | 7475.1 | 6874.5 | 6519.1 | 6409.0 |
| 15° | 13066.5 | 12814.9 | 11849.5 | 10648.2 | 9362.0 | 7924.8 | 6575.7 | 5632.3 | 5129.1 | 4849.2 | 4846.1 |
| 17.5° | 13003.6 | 12654.6 | 11406.1 | 9865.1 | 8223.6 | 6374.5 | 4959.3 | 4239.2 | 4003.3 | 4031.6 | 3984.4 |
| 20° | 12937.6 | 12465.9 | 10943.8 | 8994.0 | 6836.7 | 4754.9 | 3714.0 | 3421.5 | 3487.6 | 3616.5 | 3635.4 |
| 22.5° | 12862.1 | 12264.6 | 10446.9 | 8034.9 | 5377.6 | 3578.7 | 3012.7 | 2968.7 | 3138.5 | 3339.7 | 3368.1 |
| 25° | 12745.8 | 12013.0 | 9821.1 | 7031.7 | 4148.0 | 2883.8 | 2638.5 | 2669.9 | 2836.6 | 3006.4 | 3025.3 |
| 27.5° | 12582.2 | 11701.7 | 9189.0 | 5780.1 | 3116.5 | 2474.9 | 2412.0 | 2452.9 | 2534.7 | 2638.5 | 2663.6 |
| 30° | 12362.1 | 11349.5 | 8462.6 | 4698.3 | 2496.9 | 2270.5 | 2245.4 | 2267.4 | 2314.6 | 2358.6 | 2371.2 |
| 32.5° | 12142.0 | 11009.8 | 7729.8 | 3597.6 | 2226.5 | 2135.3 | 2110.1 | 2110.1 | 2110.1 | 2116.4 | 2119.6 |
| 35° | 11937.6 | 10689.1 | 6943.7 | 2802.0 | 2085.0 | 2028.4 | 1993.8 | 1956.0 | 1949.8 | 1927.7 | 1927.7 |
| 37.5° | 11824.3 | 10396.6 | 6107.1 | 2346.0 | 1981.2 | 1940.3 | 1893.2 | 1830.3 | 1795.7 | 1798.8 | 1792.5 |
| 40° | 11846.4 | 10204.8 | 5346.1 | 2088.1 | 1896.3 | 1852.3 | 1779.9 | 1707.6 | 1685.6 | 1685.6 | 1679.3 |
| 42.5° | 12094.8 | 10141.9 | 4616.5 | 1952.9 | 1814.5 | 1764.2 | 1673.0 | 1607.0 | 1594.4 | 1591.3 | 1597.5 |
| 45° | 12667.1 | 10296.0 | 3962.4 | 1864.8 | 1745.3 | 1669.9 | 1578.7 | 1518.9 | 1506.3 | 1506.3 | 1503.2 |
| 47.5° | 13783.5 | 10796.0 | 3493.8 | 1808.2 | 1695.0 | 1597.5 | 1503.2 | 1443.5 | 1421.4 | 1415.1 | 1415.1 |
| 50° | 15519.4 | 11880.9 | 3144.8 | 1757.9 | 1632.1 | 1531.5 | 1434.0 | 1364.8 | 1330.2 | 1327.1 | 1323.9 |
| 52.5° | 17931.5 | 13572.8 | 3009.5 | 1720.2 | 1563.0 | 1462.3 | 1355.4 | 1289.4 | 1245.3 | 1235.9 | 1229.6 |
| 55° | 20752.3 | 15934.6 | 3195.1 | 1691.9 | 1490.6 | 1383.7 | 1273.6 | 1204.4 | 1163.6 | 1144.7 | 1141.6 |
| 57.5° | 24019.8 | 18771.1 | 3899.5 | 1654.1 | 1424.6 | 1298.8 | 1191.9 | 1122.7 | 1078.7 | 1056.6 | 1050.4 |
| 60° | 26953.8 | 21686.3 | 5129.1 | 1632.1 | 1368.0 | 1207.6 | 1097.5 | 1034.6 | 993.7 | 971.7 | 968.6 |
| 62.5° | 30177.2 | 24466.3 | 6597.7 | 1691.9 | 1342.8 | 1119.5 | 1009.5 | 952.9 | 918.3 | 896.3 | 896.3 |
| 65° | 33620.7 | 27249.4 | 7569.5 | 1893.2 | 1380.6 | 1050.4 | 915.1 | 868.0 | 836.5 | 820.8 | 817.6 |
| 67.5° | 35941.6 | 28211.7 | 6236.1 | 2100.7 | 1474.9 | 974.9 | 823.9 | 786.2 | 767.3 | 751.6 | 751.6 |
| 69° | 35690.0 | 26994.7 | 4600.8 | 2154.2 | 1503.2 | 937.1 | 773.6 | 745.3 | 720.2 | 713.9 | 707.6 |
| 70° | 34894.4 | 25607.9 | 3855.5 | 2119.6 | 1481.2 | 902.5 | 742.2 | 707.6 | 685.6 | 679.3 | 676.1 |
| 72.5° | 31079.8 | 22208.4 | 2871.2 | 1842.8 | 1261.1 | 783.0 | 657.3 | 625.8 | 606.9 | 597.5 | 597.5 |
| 75° | 25821.7 | 18151.6 | 2242.2 | 1465.5 | 987.5 | 660.4 | 562.9 | 537.8 | 522.0 | 515.7 | 512.6 |
| 77.5° | 14472.2 | 10135.6 | 1610.1 | 1147.8 | 748.5 | 534.6 | 471.7 | 449.7 | 434.0 | 427.7 | 427.7 |
| 80° | 4031.6 | 2896.3 | 946.6 | 757.9 | 509.5 | 405.7 | 374.2 | 358.5 | 336.5 | 320.8 | 330.2 |
| 82.5° | 1518.9 | 1254.8 | 540.9 | 456.0 | 323.9 | 270.5 | 261.0 | 248.4 | 239.0 | 217.0 | 217.0 |
| 85° | 739.0 | 610.1 | 345.9 | 242.1 | 179.3 | 141.5 | 135.2 | 128.9 | 122.6 | 106.9 | 110.1 |
| 87.5° | 254.7 | 270.5 | 150.9 | 88.1 | 53.5 | 34.6 | 28.3 | 15.7 | 15.7 | 15.7 | 15.7 |
| 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)