

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: P458114

Luminaire Tested: **GALN-SA9C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458114
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-SA9C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 57939 lumens
Efficiency: N/A
Efficacy: 120.5 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

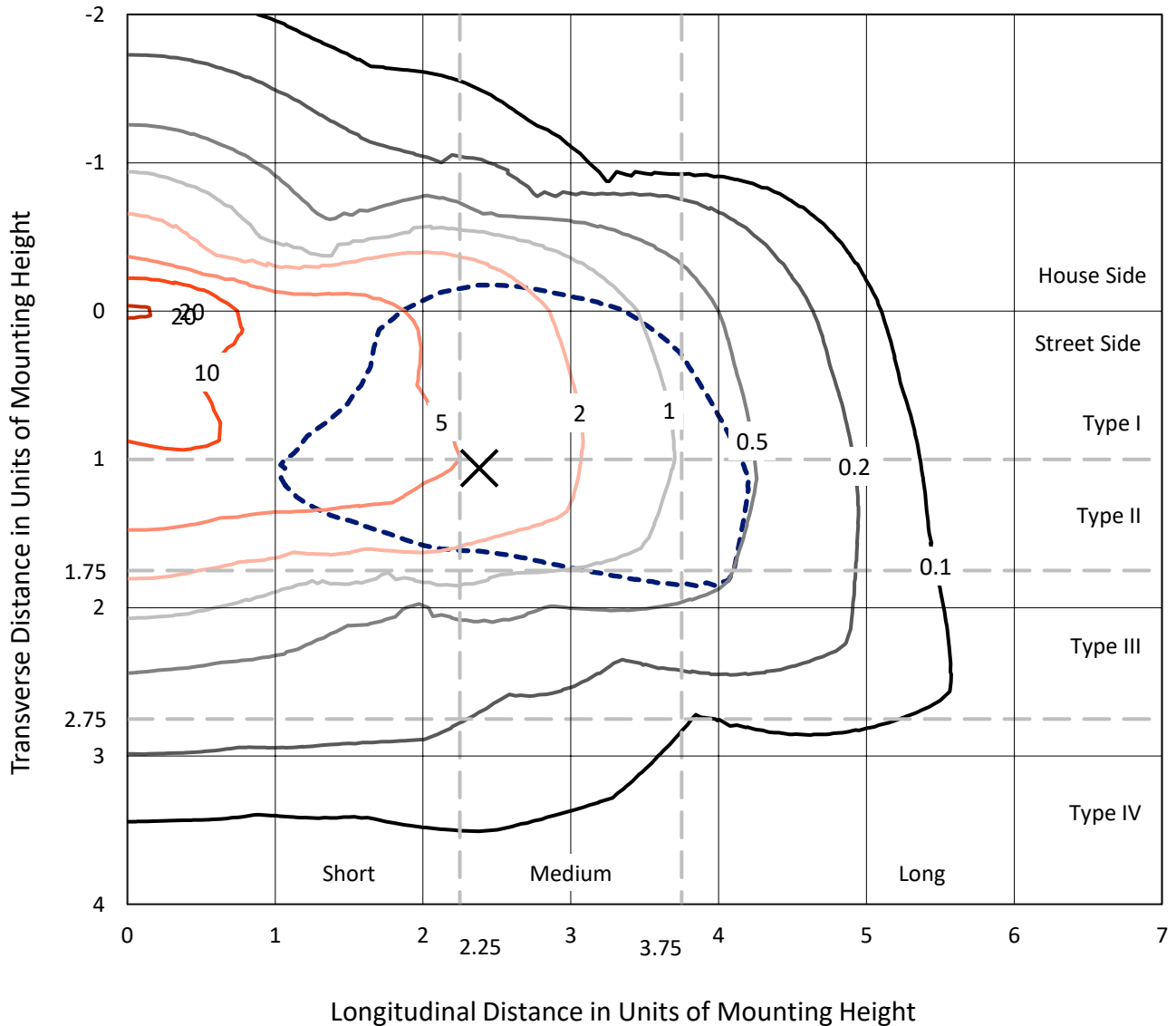
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458114
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Iso-Footcandle Lines of Horizontal Illumination

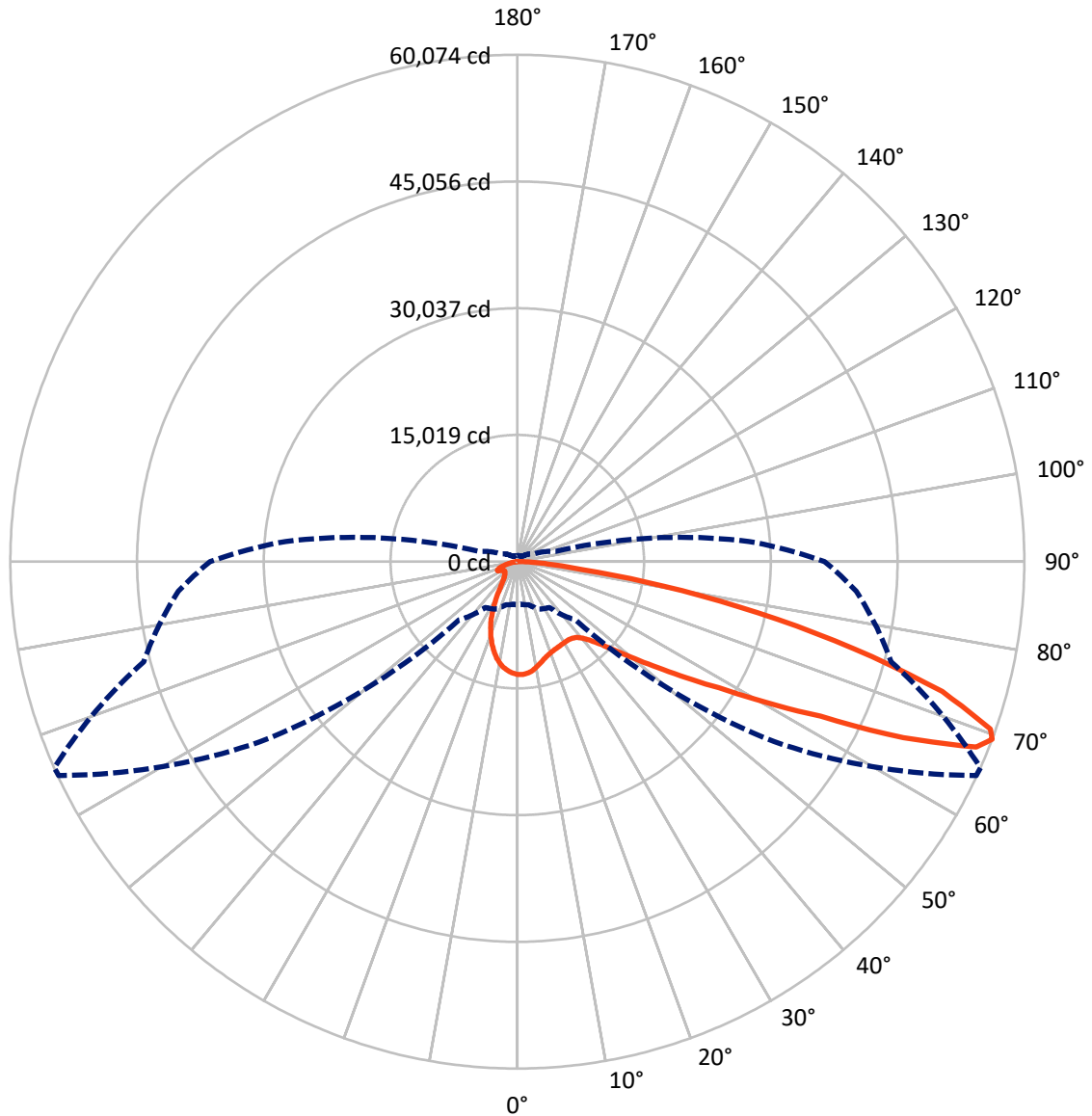
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SA9C-730-U-SL2

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10896.1 | 0.0 | 10896.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 47042.8 | 0.0 | 47042.8 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 57939.0 | 0.0 | 57939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1161.9 | 2.0 |
| 10°-20° | 2755.9 | 4.8 |
| 20°-30° | 3751.8 | 6.5 |
| 30°-40° | 5041.6 | 8.7 |
| 40°-50° | 7527.9 | 13.0 |
| 50°-60° | 11974.4 | 20.7 |
| 60°-70° | 14727.9 | 25.4 |
| 70°-80° | 9582.6 | 16.5 |
| 80°-90° | 1415.1 | 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° | 57939.0 | 100.0 |
| 0°-180° | 57939.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P458114

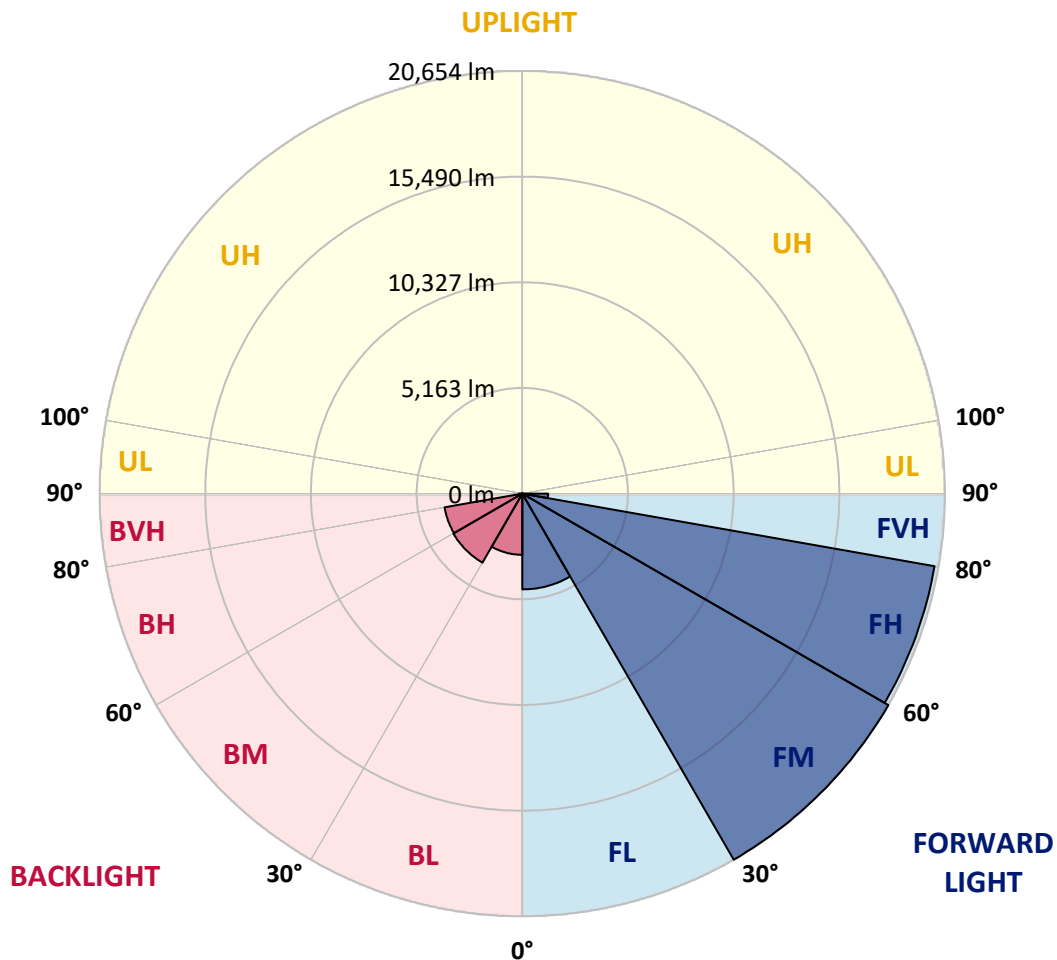
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4678.5 | 8.1 | | | |
| FM | (30°-60°) | 20653.5 | 35.6 | | | |
| FH | (60°-80°) | 20452.8 | 35.3 | | | G5 |
| FVH | (80°-90°) | 1258.1 | 2.2 | | | G5 |
| BL | (0°-30°) | 2991.0 | 5.2 | B4/5000 | | |
| BM | (30°-60°) | 3890.4 | 6.7 | B3/5000 | | |
| BH | (60°-80°) | 3857.7 | 6.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 157.0 | 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: P458114

CATALOG NUMBER: GALN-SA9C-730-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 |
| 2.5° | 12911.3 | 12962.6 | 13020.4 | 13084.5 | 13206.5 | 13273.8 | 13322.0 | 13376.5 | 13382.9 | 13411.8 | 13389.4 |
| 5° | 11958.3 | 12019.3 | 12105.9 | 12227.8 | 12410.7 | 12696.3 | 12991.5 | 13232.1 | 13261.0 | 13395.8 | 13434.3 |
| 7.5° | 11162.6 | 11197.9 | 11268.5 | 11464.2 | 11724.1 | 12041.8 | 12471.7 | 12959.4 | 13030.0 | 13350.8 | 13463.1 |
| 10° | 10514.5 | 10549.8 | 10633.2 | 10835.3 | 11092.0 | 11489.9 | 11961.5 | 12603.3 | 12661.0 | 13212.9 | 13469.6 |
| 12.5° | 10030.0 | 10062.1 | 10151.9 | 10350.8 | 10646.0 | 11018.2 | 11538.0 | 12218.2 | 12301.6 | 13030.0 | 13408.6 |
| 15° | 9661.0 | 9722.0 | 9795.8 | 9959.4 | 10270.6 | 10630.0 | 11133.7 | 11865.3 | 11932.7 | 12837.5 | 13366.9 |
| 17.5° | 9503.8 | 9532.7 | 9584.0 | 9734.8 | 9962.6 | 10315.5 | 10822.5 | 11589.3 | 11669.6 | 12702.7 | 13357.3 |
| 20° | 9510.2 | 9539.1 | 9548.7 | 9632.1 | 9795.8 | 10100.6 | 10601.1 | 11371.2 | 11467.4 | 12584.0 | 13373.3 |
| 22.5° | 9728.4 | 9731.6 | 9696.3 | 9667.4 | 9731.6 | 9985.1 | 10443.9 | 11207.5 | 11319.8 | 12532.7 | 13386.1 |
| 25° | 10065.3 | 10123.0 | 10071.7 | 9936.9 | 9818.2 | 9940.1 | 10382.9 | 11117.7 | 11223.6 | 12458.9 | 13370.1 |
| 27.5° | 10610.7 | 10620.4 | 10578.6 | 10395.8 | 10087.7 | 9997.9 | 10357.3 | 11050.3 | 11140.1 | 12404.3 | 13289.9 |
| 30° | 11342.3 | 11313.4 | 11274.9 | 11072.8 | 10588.3 | 10219.3 | 10411.8 | 10989.3 | 11082.4 | 12324.1 | 13193.6 |
| 32.5° | 12083.5 | 12173.3 | 12138.0 | 11900.6 | 11271.7 | 10649.2 | 10588.3 | 10982.9 | 11059.9 | 12263.1 | 13087.7 |
| 35° | 12869.6 | 12911.3 | 13078.1 | 12956.2 | 12311.3 | 11345.5 | 10918.8 | 11082.4 | 11143.4 | 12266.4 | 13013.9 |
| 37.5° | 13485.6 | 13597.9 | 13989.4 | 14095.2 | 13488.8 | 12266.4 | 11454.6 | 11364.7 | 11390.4 | 12423.6 | 13042.8 |
| 40° | 14230.0 | 14422.5 | 14926.3 | 15359.4 | 14961.5 | 13463.1 | 12365.8 | 11887.7 | 11919.8 | 12802.2 | 13232.1 |
| 42.5° | 15173.3 | 15308.1 | 15985.1 | 16572.2 | 16508.1 | 15045.0 | 13469.6 | 12744.4 | 12760.5 | 13556.2 | 13761.5 |
| 45° | 16277.1 | 16469.6 | 17230.0 | 18112.4 | 18263.2 | 16835.4 | 15064.2 | 14040.7 | 14031.1 | 14727.3 | 14749.8 |
| 47.5° | 17688.8 | 17807.5 | 18561.6 | 19524.1 | 20133.8 | 19084.6 | 16999.0 | 15901.7 | 15799.0 | 16434.3 | 16251.4 |
| 50° | 18988.3 | 19174.4 | 19745.5 | 20797.9 | 22315.6 | 21718.8 | 19543.4 | 18314.5 | 18073.9 | 18667.4 | 18359.4 |
| 52.5° | 19533.8 | 19729.5 | 20210.8 | 21516.7 | 24186.2 | 25126.3 | 22774.4 | 21192.6 | 20791.5 | 21247.1 | 21134.8 |
| 55° | 18587.2 | 18840.7 | 19289.9 | 20878.1 | 25007.6 | 29056.8 | 27131.6 | 24519.9 | 24227.9 | 24032.2 | 24064.3 |
| 57.5° | 16042.8 | 16283.5 | 16889.9 | 18641.8 | 24025.8 | 31909.2 | 33353.1 | 28796.9 | 28171.2 | 27269.6 | 27423.6 |
| 60° | 12211.8 | 12362.6 | 12677.0 | 14618.2 | 21115.6 | 32650.4 | 40418.3 | 34203.3 | 33805.5 | 30494.2 | 30603.3 |
| 62.5° | 8672.8 | 8842.8 | 9061.0 | 10030.0 | 15458.9 | 30561.6 | 45949.9 | 41753.1 | 40331.7 | 33834.3 | 33728.5 |
| 65° | 7042.8 | 6927.3 | 7190.4 | 7642.8 | 9070.6 | 23685.6 | 47194.8 | 52232.3 | 50275.0 | 38233.3 | 36763.8 |
| 67.5° | 5791.5 | 5669.5 | 5929.4 | 6734.8 | 6898.4 | 13748.7 | 42709.2 | 59034.4 | 58643.0 | 43017.3 | 39847.2 |
| 69° | 5127.3 | 5063.1 | 5290.9 | 6208.6 | 6622.5 | 9763.7 | 37206.5 | 59981.0 | 60074.0 | 45837.6 | 40322.1 |
| 70° | 4620.3 | 4646.0 | 4867.4 | 5942.3 | 6497.3 | 8050.3 | 31800.1 | 58675.1 | 59464.4 | 47246.2 | 39808.7 |
| 72.5° | 3401.1 | 3455.6 | 3763.6 | 4921.9 | 6378.6 | 6831.0 | 18924.1 | 51250.4 | 52646.2 | 47329.6 | 36417.2 |
| 75° | 2377.5 | 2351.9 | 2624.6 | 3705.9 | 6025.7 | 6770.1 | 11114.5 | 39635.4 | 41217.3 | 40909.2 | 30600.1 |
| 77.5° | 1556.2 | 1597.9 | 1816.0 | 2618.2 | 5069.5 | 6718.7 | 7244.9 | 28119.9 | 29146.6 | 27359.5 | 18099.5 |
| 80° | 1097.3 | 1094.1 | 1216.0 | 1787.2 | 3760.4 | 6455.6 | 5932.6 | 17724.1 | 17464.2 | 10751.9 | 5367.9 |
| 82.5° | 628.9 | 673.8 | 815.0 | 1257.8 | 2515.5 | 5682.4 | 5457.8 | 8477.0 | 7739.1 | 3064.2 | 1812.8 |
| 85° | 349.7 | 365.8 | 484.5 | 760.4 | 1469.5 | 4280.2 | 4764.7 | 3856.7 | 3638.5 | 1280.2 | 779.7 |
| 87.5° | 112.3 | 121.9 | 202.1 | 385.0 | 667.4 | 2021.4 | 2698.4 | 1780.8 | 1642.8 | 462.0 | 314.4 |
| 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: P458114
 CATALOG NUMBER: GALN-SA9C-730-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 | 13379.7 |
| 2.5° | 13399.0 | 13437.5 | 13334.8 | 13235.3 | 13145.5 | 13020.4 | 12908.1 | 12815.0 | 12750.8 | 12741.2 | 12709.1 |
| 5° | 13443.9 | 13447.1 | 13251.4 | 12988.3 | 12731.6 | 12449.2 | 12157.3 | 11948.7 | 11753.0 | 11643.9 | 11589.3 |
| 7.5° | 13476.0 | 13447.1 | 13094.2 | 12667.4 | 12173.3 | 11659.9 | 11146.6 | 10735.9 | 10418.2 | 10293.1 | 10341.2 |
| 10° | 13463.1 | 13373.3 | 12856.7 | 12173.3 | 11454.6 | 10687.7 | 9949.8 | 9372.2 | 8842.8 | 8570.1 | 8576.5 |
| 12.5° | 13392.6 | 13245.0 | 12503.8 | 11618.2 | 10562.6 | 9535.9 | 8406.4 | 7626.8 | 7013.9 | 6651.4 | 6539.1 |
| 15° | 13331.6 | 13074.9 | 12089.9 | 10864.2 | 9551.9 | 8085.6 | 6709.1 | 5746.5 | 5233.2 | 4947.6 | 4944.4 |
| 17.5° | 13267.4 | 12911.3 | 11637.5 | 10065.3 | 8390.4 | 6503.8 | 5059.9 | 4325.1 | 4084.5 | 4113.4 | 4065.3 |
| 20° | 13200.0 | 12718.8 | 11165.8 | 9176.5 | 6975.4 | 4851.4 | 3789.3 | 3490.9 | 3558.3 | 3689.9 | 3709.1 |
| 22.5° | 13123.0 | 12513.4 | 10658.9 | 8197.9 | 5486.6 | 3651.3 | 3073.8 | 3028.9 | 3202.1 | 3407.5 | 3436.4 |
| 25° | 13004.3 | 12256.7 | 10020.4 | 7174.4 | 4232.1 | 2942.3 | 2692.0 | 2724.1 | 2894.1 | 3067.4 | 3086.6 |
| 27.5° | 12837.5 | 11939.1 | 9375.4 | 5897.3 | 3179.7 | 2525.1 | 2461.0 | 2502.7 | 2586.1 | 2692.0 | 2717.7 |
| 30° | 12612.9 | 11579.7 | 8634.3 | 4793.6 | 2547.6 | 2316.6 | 2290.9 | 2313.4 | 2361.5 | 2406.4 | 2419.3 |
| 32.5° | 12388.3 | 11233.2 | 7886.7 | 3670.6 | 2271.7 | 2178.6 | 2152.9 | 2152.9 | 2152.9 | 2159.4 | 2162.6 |
| 35° | 12179.7 | 10905.9 | 7084.5 | 2858.8 | 2127.3 | 2069.5 | 2034.2 | 1995.7 | 1989.3 | 1966.9 | 1966.9 |
| 37.5° | 12064.2 | 10607.5 | 6231.0 | 2393.6 | 2021.4 | 1979.7 | 1931.6 | 1867.4 | 1832.1 | 1835.3 | 1828.9 |
| 40° | 12086.7 | 10411.8 | 5454.6 | 2130.5 | 1934.8 | 1889.8 | 1816.0 | 1742.3 | 1719.8 | 1719.8 | 1713.4 |
| 42.5° | 12340.1 | 10347.6 | 4710.2 | 1992.5 | 1851.3 | 1800.0 | 1707.0 | 1639.6 | 1626.7 | 1623.5 | 1630.0 |
| 45° | 12924.1 | 10504.8 | 4042.8 | 1902.7 | 1780.8 | 1703.7 | 1610.7 | 1549.7 | 1536.9 | 1536.9 | 1533.7 |
| 47.5° | 14063.1 | 11015.0 | 3564.7 | 1844.9 | 1729.4 | 1630.0 | 1533.7 | 1472.7 | 1450.3 | 1443.9 | 1443.9 |
| 50° | 15834.3 | 12122.0 | 3208.6 | 1793.6 | 1665.2 | 1562.6 | 1463.1 | 1392.5 | 1357.2 | 1354.0 | 1350.8 |
| 52.5° | 18295.2 | 13848.2 | 3070.6 | 1755.1 | 1594.7 | 1492.0 | 1382.9 | 1315.5 | 1270.6 | 1261.0 | 1254.5 |
| 55° | 21173.3 | 16257.8 | 3259.9 | 1726.2 | 1520.9 | 1411.8 | 1299.5 | 1228.9 | 1187.2 | 1167.9 | 1164.7 |
| 57.5° | 24507.0 | 19151.9 | 3978.6 | 1687.7 | 1453.5 | 1325.1 | 1216.0 | 1145.5 | 1100.5 | 1078.1 | 1071.7 |
| 60° | 27500.6 | 22126.3 | 5233.2 | 1665.2 | 1395.7 | 1232.1 | 1119.8 | 1055.6 | 1013.9 | 991.4 | 988.2 |
| 62.5° | 30789.4 | 24962.7 | 6731.6 | 1726.2 | 1370.1 | 1142.2 | 1030.0 | 972.2 | 936.9 | 914.4 | 914.4 |
| 65° | 34302.8 | 27802.2 | 7723.0 | 1931.6 | 1408.6 | 1071.7 | 933.7 | 885.6 | 853.5 | 837.4 | 834.2 |
| 67.5° | 36670.7 | 28784.1 | 6362.6 | 2143.3 | 1504.8 | 994.7 | 840.6 | 802.1 | 782.9 | 766.8 | 766.8 |
| 69° | 36414.0 | 27542.3 | 4694.1 | 2197.9 | 1533.7 | 956.2 | 789.3 | 760.4 | 734.8 | 728.3 | 721.9 |
| 70° | 35602.3 | 26127.4 | 3933.7 | 2162.6 | 1511.2 | 920.9 | 757.2 | 721.9 | 699.5 | 693.1 | 689.8 |
| 72.5° | 31710.3 | 22658.9 | 2929.4 | 1880.2 | 1286.6 | 798.9 | 670.6 | 638.5 | 619.3 | 609.6 | 609.6 |
| 75° | 26345.5 | 18519.8 | 2287.7 | 1495.2 | 1007.5 | 673.8 | 574.3 | 548.7 | 532.6 | 526.2 | 523.0 |
| 77.5° | 14765.8 | 10341.2 | 1642.8 | 1171.1 | 763.6 | 545.5 | 481.3 | 458.8 | 442.8 | 436.4 | 436.4 |
| 80° | 4113.4 | 2955.1 | 965.8 | 773.3 | 519.8 | 413.9 | 381.8 | 365.8 | 343.3 | 327.3 | 336.9 |
| 82.5° | 1549.7 | 1280.2 | 551.9 | 465.2 | 330.5 | 275.9 | 266.3 | 253.5 | 243.9 | 221.4 | 221.4 |
| 85° | 754.0 | 622.5 | 352.9 | 247.1 | 182.9 | 144.4 | 138.0 | 131.6 | 125.1 | 109.1 | 112.3 |
| 87.5° | 259.9 | 275.9 | 154.0 | 89.8 | 54.5 | 35.3 | 28.9 | 16.0 | 16.0 | 16.0 | 16.0 |
| 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)