

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: P454172

Luminaire Tested: **GALN-SA5B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25722 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

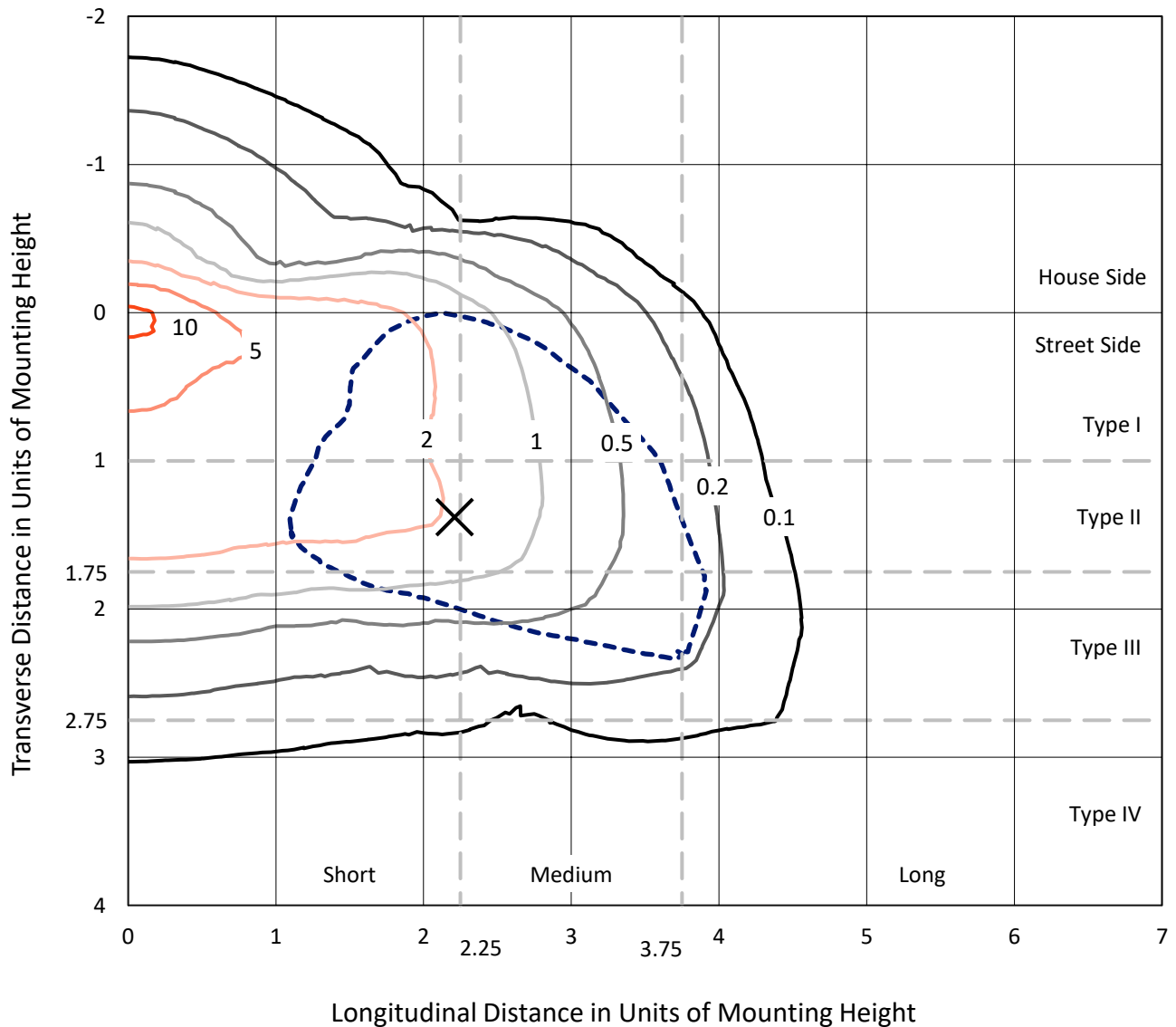
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

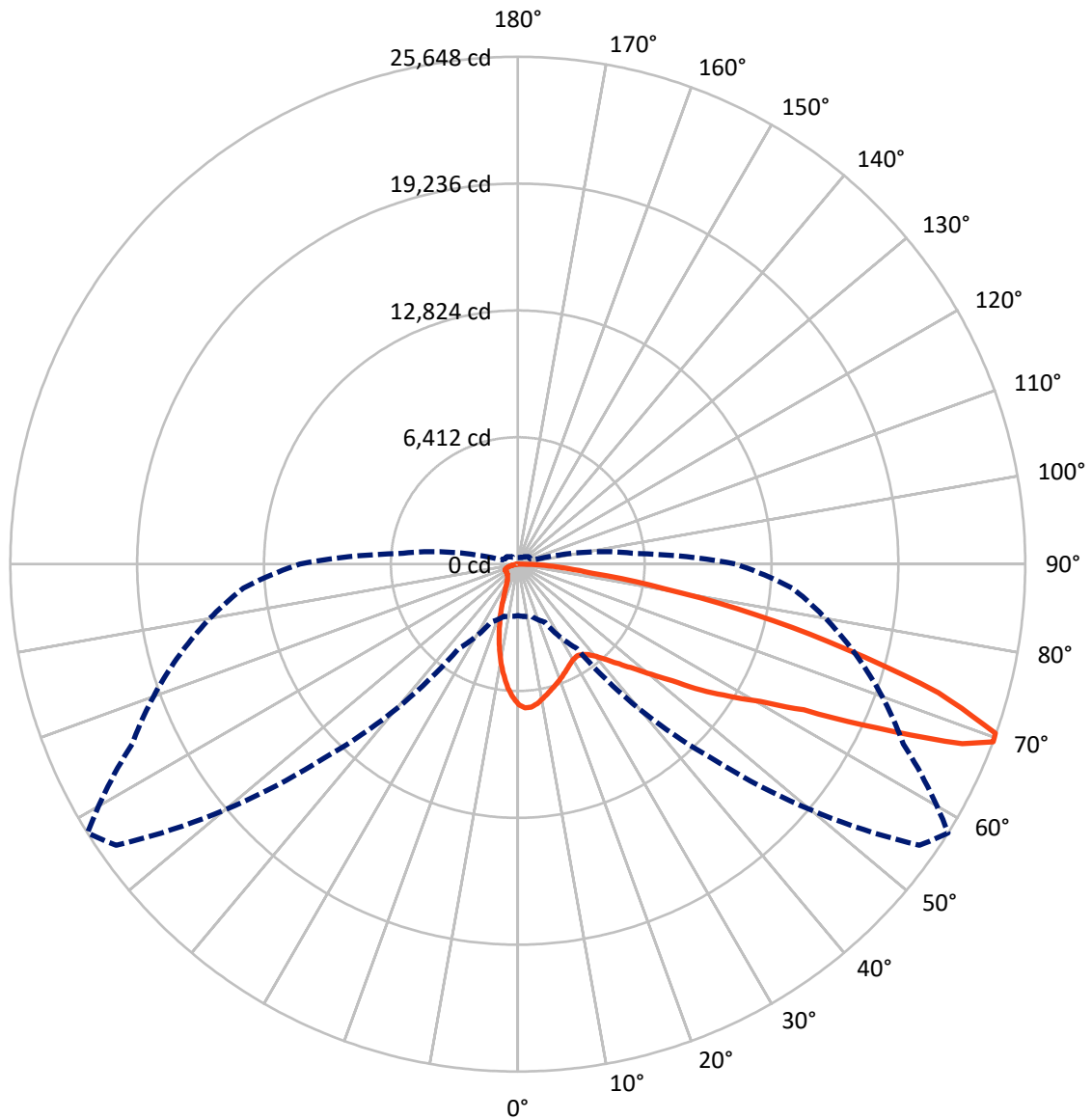
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3769.6 | 0.0 | 3769.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 21952.4 | 0.0 | 21952.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 25722.0 | 0.0 | 25722.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 603.6 | 2.3 |
| 10°-20° | 1325.5 | 5.2 |
| 20°-30° | 1712.6 | 6.7 |
| 30°-40° | 2224.3 | 8.6 |
| 40°-50° | 3233.8 | 12.6 |
| 50°-60° | 5160.1 | 20.1 |
| 60°-70° | 6893.2 | 26.8 |
| 70°-80° | 3973.7 | 15.4 |
| 80°-90° | 595.2 | 2.3 |
| 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° | 25722.0 | 100.0 |
| 0°-180° | 25722.0 | 100.0 |

Coefficient of Utilization



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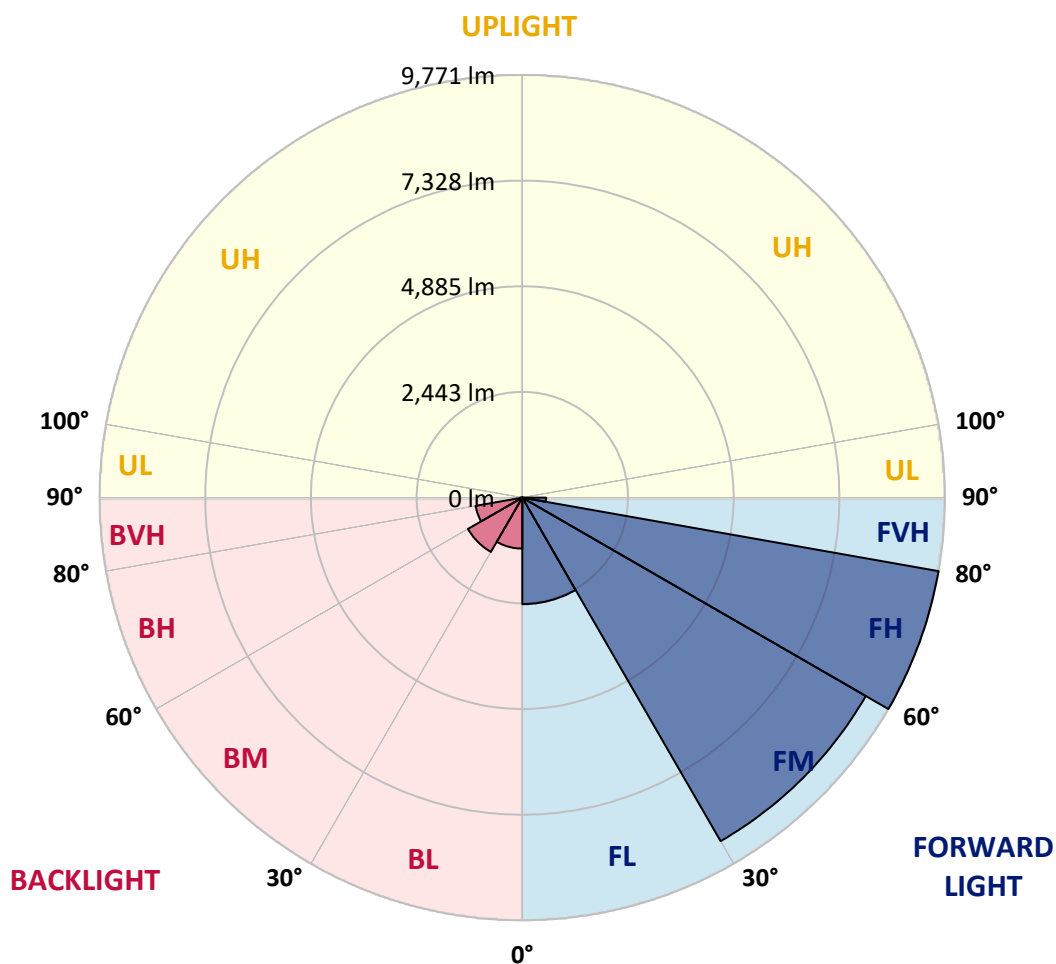
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2463.5 | 9.6 | | | |
| FM | (30°-60°) | 9168.6 | 35.6 | | | |
| FH | (60°-80°) | 9770.8 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 549.6 | 2.1 | | | G4/750 |
| BL | (0°-30°) | 1178.2 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1449.6 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 1096.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 45.6 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 |
| 2.5° | 7372.0 | 7392.1 | 7386.4 | 7379.2 | 7367.7 | 7336.1 | 7284.5 | 7275.9 | 7242.9 | 7172.6 | 7085.1 |
| 5° | 7258.7 | 7275.9 | 7277.3 | 7287.4 | 7301.7 | 7296.0 | 7258.7 | 7254.4 | 7205.6 | 7110.9 | 6964.6 |
| 7.5° | 6869.9 | 6892.9 | 6943.1 | 6999.0 | 7049.2 | 7096.6 | 7108.1 | 7115.2 | 7085.1 | 6976.1 | 6781.0 |
| 10° | 6432.4 | 6455.3 | 6478.3 | 6561.5 | 6684.9 | 6802.5 | 6900.0 | 6913.0 | 6920.1 | 6819.7 | 6581.6 |
| 12.5° | 5947.5 | 5994.9 | 6043.6 | 6167.0 | 6332.0 | 6517.0 | 6689.2 | 6716.4 | 6765.2 | 6689.2 | 6409.4 |
| 15° | 5535.8 | 5584.6 | 5654.9 | 5765.3 | 5964.7 | 6231.6 | 6474.0 | 6518.5 | 6614.6 | 6575.8 | 6248.8 |
| 17.5° | 5250.3 | 5267.6 | 5316.3 | 5442.6 | 5657.8 | 5938.9 | 6263.1 | 6352.1 | 6505.6 | 6495.5 | 6111.1 |
| 20° | 5025.1 | 5046.6 | 5076.8 | 5154.2 | 5378.0 | 5675.0 | 6066.6 | 6181.4 | 6389.4 | 6423.8 | 5974.8 |
| 22.5° | 4930.5 | 4946.2 | 4941.9 | 4983.5 | 5135.6 | 5434.0 | 5867.2 | 6003.5 | 6286.1 | 6375.0 | 5848.5 |
| 25° | 4936.2 | 4950.5 | 4929.0 | 4919.0 | 5009.3 | 5221.7 | 5659.2 | 5832.8 | 6202.9 | 6342.0 | 5733.8 |
| 27.5° | 5032.3 | 5042.3 | 5002.2 | 4962.0 | 4969.2 | 5089.7 | 5487.0 | 5679.3 | 6132.6 | 6356.4 | 5637.7 |
| 30° | 5161.4 | 5180.1 | 5154.2 | 5105.5 | 5052.4 | 5058.1 | 5376.6 | 5565.9 | 6099.6 | 6406.6 | 5591.8 |
| 32.5° | 5327.8 | 5345.0 | 5333.6 | 5294.8 | 5226.0 | 5149.9 | 5349.3 | 5524.3 | 6102.5 | 6508.4 | 5581.7 |
| 35° | 5502.8 | 5537.3 | 5555.9 | 5553.0 | 5497.1 | 5365.1 | 5456.9 | 5601.8 | 6171.3 | 6679.1 | 5640.5 |
| 37.5° | 5700.8 | 5729.5 | 5809.8 | 5861.5 | 5809.8 | 5656.3 | 5699.4 | 5799.8 | 6323.4 | 6925.9 | 5769.6 |
| 40° | 5893.0 | 5936.1 | 6053.7 | 6214.3 | 6194.3 | 6059.4 | 6069.5 | 6135.4 | 6591.6 | 7293.1 | 6022.1 |
| 42.5° | 6093.8 | 6145.5 | 6350.6 | 6588.8 | 6636.1 | 6531.4 | 6558.6 | 6617.4 | 6973.2 | 7802.4 | 6455.3 |
| 45° | 6352.1 | 6413.7 | 6666.2 | 6963.2 | 7149.7 | 7085.1 | 7162.6 | 7191.3 | 7483.9 | 8465.1 | 7026.3 |
| 47.5° | 6684.9 | 6756.6 | 7067.9 | 7438.0 | 7701.9 | 7760.8 | 7895.6 | 7878.4 | 8116.5 | 9249.8 | 7766.5 |
| 50° | 7245.8 | 7285.9 | 7580.0 | 7957.3 | 8320.2 | 8585.6 | 8731.9 | 8759.2 | 8901.2 | 10013.0 | 8594.2 |
| 52.5° | 7912.8 | 7948.7 | 8161.0 | 8490.9 | 8945.7 | 9508.0 | 9869.5 | 9780.6 | 9815.0 | 10942.5 | 9562.5 |
| 55° | 8663.1 | 8723.3 | 8858.2 | 9077.7 | 9667.2 | 10495.0 | 11220.8 | 11242.3 | 10860.8 | 11831.9 | 10490.7 |
| 57.5° | 9244.1 | 9345.9 | 9576.9 | 9889.6 | 10637.0 | 11592.4 | 12567.8 | 12582.2 | 12094.5 | 12781.6 | 11514.9 |
| 60° | 8951.4 | 9071.9 | 9599.8 | 10361.6 | 11909.4 | 13507.5 | 14177.4 | 14095.6 | 13295.1 | 13863.2 | 12764.4 |
| 62.5° | 7689.0 | 7710.6 | 8478.0 | 9668.7 | 12301.0 | 16069.5 | 16573.0 | 16227.3 | 14897.5 | 15234.6 | 14033.9 |
| 65° | 4976.4 | 5116.9 | 5725.2 | 7393.5 | 11014.3 | 17491.1 | 20770.4 | 19971.4 | 17144.0 | 16791.1 | 15096.9 |
| 67.5° | 3141.6 | 3105.7 | 3358.2 | 4221.8 | 7575.7 | 16238.8 | 24352.4 | 24226.2 | 20081.9 | 17773.7 | 14843.0 |
| 69° | 2605.1 | 2645.3 | 2731.3 | 3236.3 | 5213.1 | 13864.7 | 24775.6 | 25647.8 | 21506.3 | 17696.3 | 13920.6 |
| 70° | 2362.7 | 2381.3 | 2471.7 | 2869.0 | 4022.4 | 11612.5 | 24081.3 | 25609.1 | 22065.8 | 17372.1 | 13252.1 |
| 72.5° | 1874.9 | 1873.5 | 2028.4 | 2387.0 | 3006.8 | 6628.9 | 19773.4 | 22233.7 | 21440.4 | 15862.9 | 10949.7 |
| 75° | 1424.5 | 1447.4 | 1618.1 | 2019.8 | 2770.1 | 3622.2 | 13798.7 | 17122.5 | 17123.9 | 12529.1 | 6832.6 |
| 77.5° | 1027.1 | 1041.5 | 1240.9 | 1695.6 | 2609.4 | 2936.5 | 9191.0 | 12280.9 | 11545.0 | 5741.0 | 2147.5 |
| 80° | 672.8 | 681.4 | 833.5 | 1342.7 | 2352.6 | 2770.1 | 5449.7 | 7516.9 | 5445.4 | 1523.5 | 710.1 |
| 82.5° | 368.7 | 411.7 | 509.3 | 869.3 | 1887.8 | 2559.2 | 3312.3 | 3804.4 | 2042.8 | 678.5 | 370.1 |
| 85° | 185.1 | 196.5 | 286.9 | 507.8 | 1233.7 | 2117.4 | 2306.7 | 2181.9 | 1054.4 | 337.1 | 192.2 |
| 87.5° | 54.5 | 68.9 | 119.1 | 196.5 | 500.6 | 1103.1 | 1283.9 | 1151.9 | 406.0 | 121.9 | 40.2 |
| 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-SA5B-730-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 | 7108.1 |
| 2.5° | 7049.2 | 7023.4 | 6908.7 | 6805.4 | 6710.7 | 6610.3 | 6525.6 | 6451.0 | 6458.2 | 6459.7 | 6383.6 |
| 5° | 6888.6 | 6829.8 | 6611.7 | 6408.0 | 6235.9 | 6017.8 | 5831.3 | 5710.8 | 5650.6 | 5570.2 | 5598.9 |
| 7.5° | 6670.5 | 6557.2 | 6254.5 | 5916.0 | 5598.9 | 5316.3 | 5009.3 | 4798.5 | 4663.6 | 4533.1 | 4550.3 |
| 10° | 6445.3 | 6263.1 | 5822.7 | 5375.2 | 4964.9 | 4513.0 | 4121.4 | 3785.7 | 3536.1 | 3442.9 | 3381.2 |
| 12.5° | 6214.3 | 5974.8 | 5415.3 | 4820.0 | 4253.4 | 3712.5 | 3157.4 | 2797.3 | 2521.9 | 2375.6 | 2394.2 |
| 15° | 6003.5 | 5712.3 | 4990.7 | 4264.8 | 3528.9 | 2884.8 | 2331.1 | 1988.2 | 1796.0 | 1755.9 | 1778.8 |
| 17.5° | 5808.4 | 5426.8 | 4593.3 | 3725.5 | 2866.2 | 2163.3 | 1751.6 | 1557.9 | 1480.4 | 1458.9 | 1457.5 |
| 20° | 5607.5 | 5184.4 | 4147.2 | 3148.8 | 2233.6 | 1677.0 | 1437.4 | 1347.0 | 1332.7 | 1341.3 | 1342.7 |
| 22.5° | 5403.8 | 4884.5 | 3688.2 | 2576.4 | 1778.8 | 1371.4 | 1256.6 | 1232.3 | 1243.7 | 1263.8 | 1266.7 |
| 25° | 5215.9 | 4620.6 | 3246.3 | 2074.3 | 1420.2 | 1205.0 | 1149.1 | 1149.1 | 1174.9 | 1205.0 | 1206.4 |
| 27.5° | 5061.0 | 4365.2 | 2805.9 | 1646.8 | 1189.2 | 1084.5 | 1065.8 | 1075.9 | 1111.8 | 1134.7 | 1136.1 |
| 30° | 4933.3 | 4127.1 | 2389.9 | 1319.8 | 1045.8 | 988.4 | 984.1 | 1001.3 | 1027.1 | 1048.6 | 1050.1 |
| 32.5° | 4837.2 | 3917.7 | 2001.2 | 1108.9 | 946.8 | 915.2 | 913.8 | 926.7 | 941.0 | 946.8 | 952.5 |
| 35° | 4799.9 | 3744.1 | 1645.4 | 975.5 | 880.8 | 860.7 | 860.7 | 859.3 | 865.0 | 867.9 | 870.8 |
| 37.5° | 4830.0 | 3610.7 | 1370.0 | 889.4 | 832.0 | 817.7 | 809.1 | 800.5 | 797.6 | 797.6 | 799.0 |
| 40° | 4957.7 | 3540.4 | 1164.8 | 833.5 | 797.6 | 776.1 | 760.3 | 750.3 | 740.2 | 743.1 | 746.0 |
| 42.5° | 5228.8 | 3553.3 | 1025.7 | 796.2 | 767.5 | 737.3 | 714.4 | 702.9 | 695.7 | 704.4 | 702.9 |
| 45° | 5660.6 | 3682.4 | 936.7 | 770.3 | 737.3 | 698.6 | 677.1 | 665.6 | 665.6 | 678.5 | 682.8 |
| 47.5° | 6264.6 | 3929.2 | 889.4 | 750.3 | 714.4 | 668.5 | 647.0 | 638.4 | 641.2 | 662.7 | 664.2 |
| 50° | 7001.9 | 4358.1 | 880.8 | 740.2 | 702.9 | 647.0 | 622.6 | 614.0 | 621.1 | 644.1 | 647.0 |
| 52.5° | 7815.3 | 4910.4 | 922.4 | 741.6 | 692.9 | 634.1 | 602.5 | 589.6 | 596.8 | 615.4 | 621.1 |
| 55° | 8779.3 | 5601.8 | 1030.0 | 747.4 | 678.5 | 626.9 | 588.2 | 559.5 | 568.1 | 581.0 | 582.4 |
| 57.5° | 9763.4 | 6474.0 | 1219.3 | 748.8 | 667.1 | 614.0 | 563.8 | 526.5 | 526.5 | 535.1 | 539.4 |
| 60° | 10965.5 | 7423.6 | 1469.0 | 750.3 | 668.5 | 595.3 | 530.8 | 489.2 | 483.4 | 487.7 | 489.2 |
| 62.5° | 12159.0 | 8218.4 | 1510.6 | 746.0 | 682.8 | 576.7 | 494.9 | 451.9 | 441.8 | 440.4 | 437.5 |
| 65° | 12685.5 | 8070.6 | 1238.0 | 725.9 | 698.6 | 565.2 | 466.2 | 416.0 | 398.8 | 393.1 | 393.1 |
| 67.5° | 11827.6 | 6826.9 | 931.0 | 698.6 | 688.6 | 553.7 | 439.0 | 385.9 | 365.8 | 354.3 | 354.3 |
| 69° | 11021.4 | 6072.3 | 836.3 | 680.0 | 662.7 | 535.1 | 421.7 | 370.1 | 345.7 | 332.8 | 328.5 |
| 70° | 10398.8 | 5553.0 | 796.2 | 664.2 | 638.4 | 513.6 | 408.8 | 358.6 | 331.4 | 317.0 | 314.2 |
| 72.5° | 8298.7 | 4356.6 | 697.2 | 603.9 | 543.7 | 431.8 | 362.9 | 322.8 | 296.9 | 281.2 | 276.9 |
| 75° | 4782.7 | 2361.2 | 578.1 | 525.0 | 437.5 | 335.7 | 307.0 | 281.2 | 261.1 | 246.7 | 242.4 |
| 77.5° | 1471.8 | 912.4 | 418.9 | 414.6 | 321.3 | 259.6 | 245.3 | 235.3 | 220.9 | 205.1 | 202.3 |
| 80° | 619.7 | 464.8 | 284.0 | 279.7 | 213.7 | 180.7 | 176.4 | 175.0 | 169.3 | 156.4 | 152.1 |
| 82.5° | 340.0 | 262.5 | 198.0 | 172.1 | 129.1 | 104.7 | 109.0 | 110.5 | 106.2 | 93.2 | 84.6 |
| 85° | 166.4 | 143.5 | 96.1 | 77.5 | 58.8 | 37.3 | 35.9 | 43.0 | 40.2 | 28.7 | 31.6 |
| 87.5° | 33.0 | 40.2 | 25.8 | 11.5 | 5.7 | 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 |

(END OF REPORT)