

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: P453016

Luminaire Tested: **GALN-SA4A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14202 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

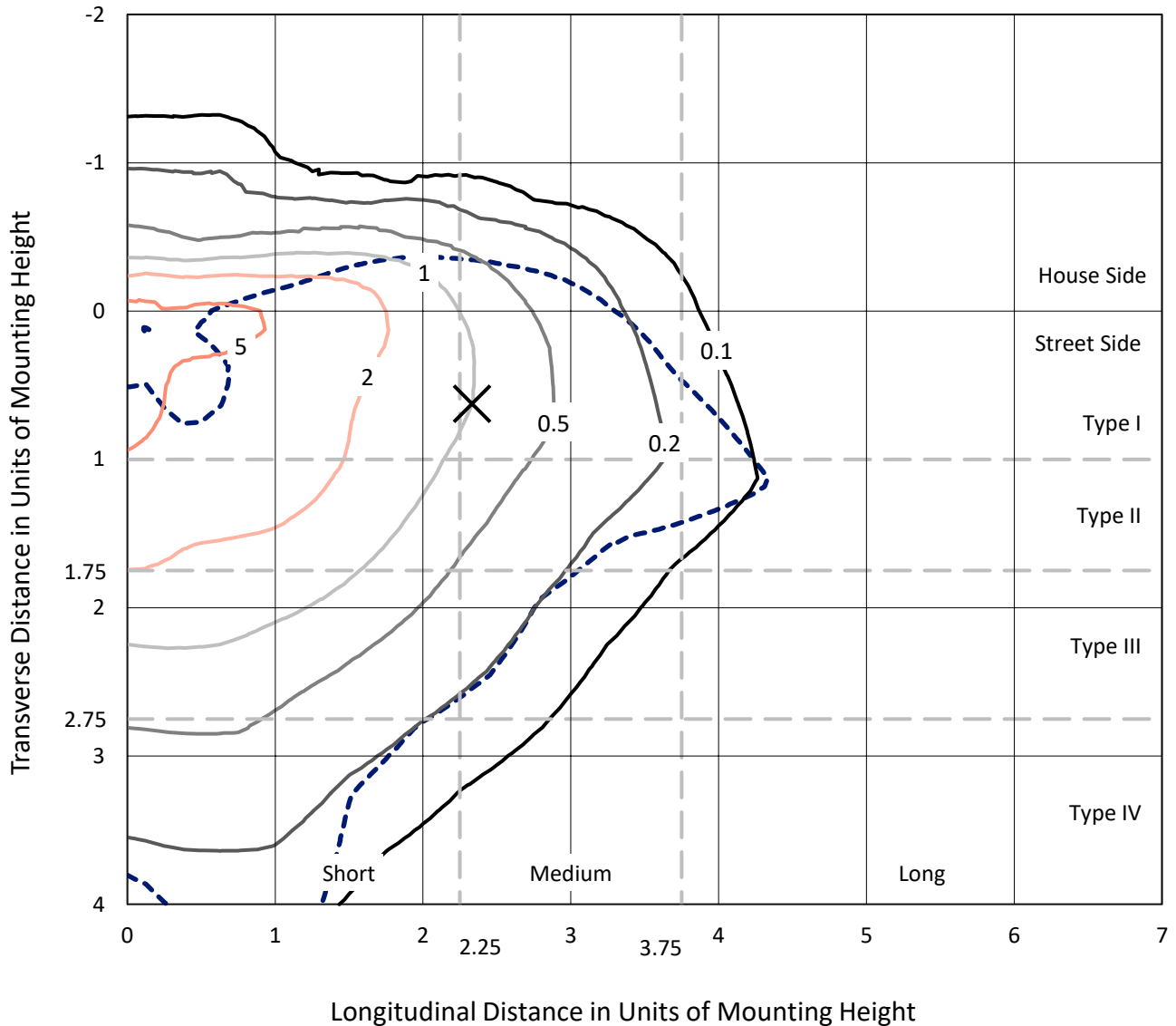
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453016
 CATALOG NUMBER: GALN-SA4A-730-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

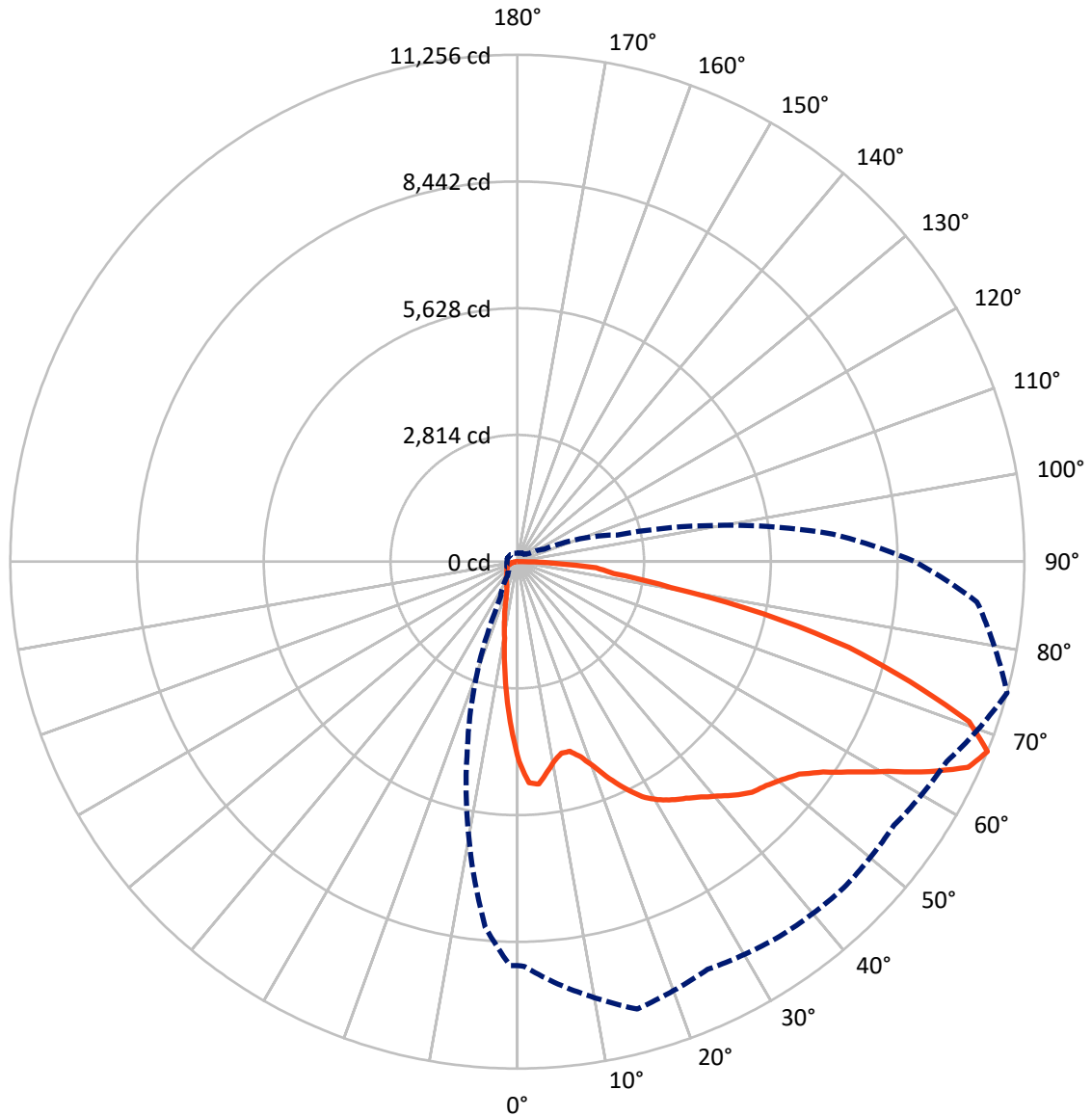
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P453016
CATALOG NUMBER: GALN-SA4A-730-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2400.4 | 0.0 | 2400.4 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 11801.6 | 0.0 | 11801.6 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 14202.0 | 0.0 | 14202.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 336.5 | 2.4 |
| 10°-20° | 701.9 | 4.9 |
| 20°-30° | 1010.0 | 7.1 |
| 30°-40° | 1454.7 | 10.2 |
| 40°-50° | 2043.4 | 14.4 |
| 50°-60° | 2849.8 | 20.1 |
| 60°-70° | 3388.3 | 23.9 |
| 70°-80° | 1995.5 | 14.1 |
| 80°-90° | 422.0 | 3.0 |
| 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° | 14202.0 | 100.0 |
| 0°-180° | 14202.0 | 100.0 |



REPORT NUMBER: P453016

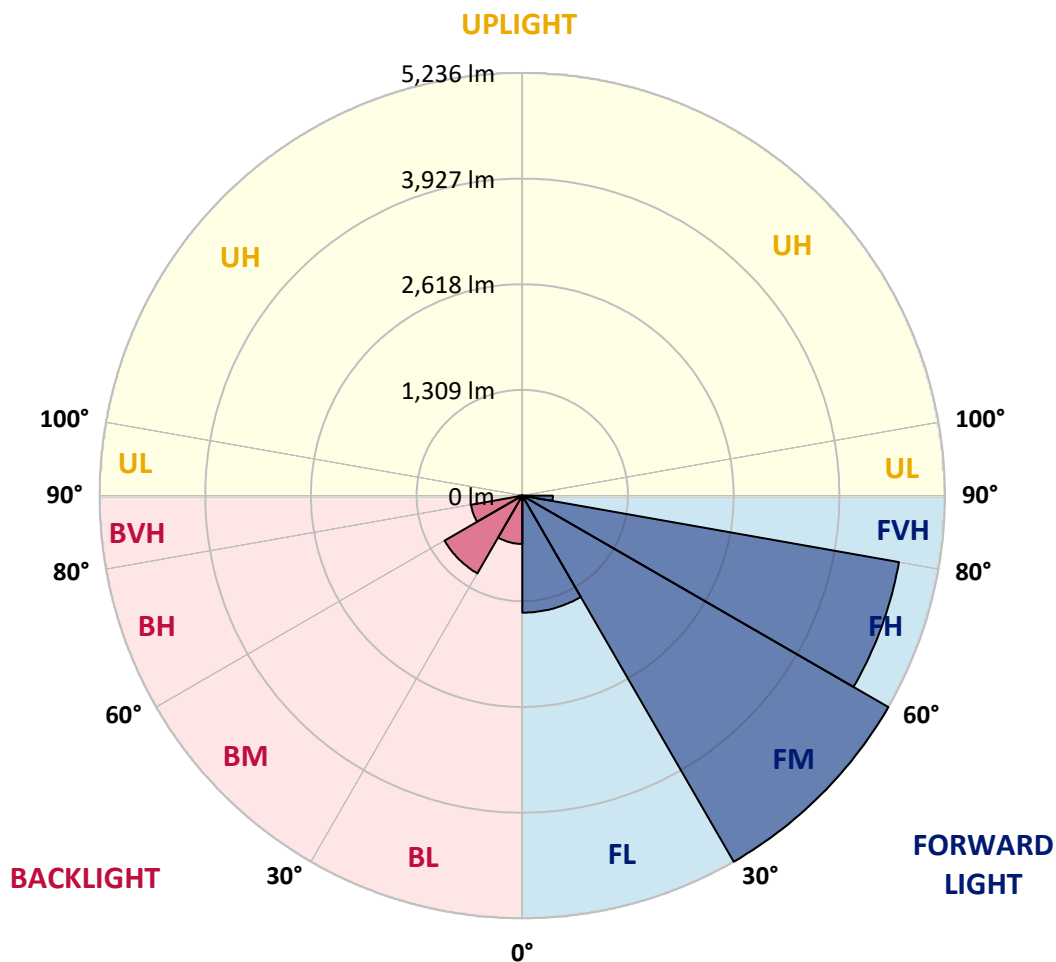
CATALOG NUMBER: GALN-SA4A-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1449.6 | 10.2 | | | |
| FM | (30°-60°) | 5235.8 | 36.9 | | | |
| FH | (60°-80°) | 4737.8 | 33.4 | | | G2/5000 |
| FVH | (80°-90°) | 378.3 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 598.7 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1112.1 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 645.9 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 43.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P453016

CATALOG NUMBER: GALN-SA4A-730-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 |
| 2.5° | 4784.0 | 4790.4 | 4831.4 | 4950.7 | 5032.7 | 5062.7 | 5083.7 | 5044.5 | 5006.2 | 4913.3 | 4773.1 |
| 5° | 4769.5 | 4806.8 | 4913.3 | 5181.1 | 5392.4 | 5483.5 | 5510.8 | 5393.3 | 5199.3 | 4960.7 | 4673.8 |
| 7.5° | 4490.8 | 4540.9 | 4704.8 | 5153.8 | 5526.3 | 5739.4 | 5711.1 | 5498.9 | 5149.2 | 4723.9 | 4323.2 |
| 10° | 4160.2 | 4215.7 | 4413.4 | 4956.2 | 5436.1 | 5729.4 | 5729.4 | 5470.7 | 5006.2 | 4500.8 | 4039.1 |
| 12.5° | 3897.9 | 3956.2 | 4182.0 | 4753.1 | 5248.5 | 5526.3 | 5572.7 | 5350.5 | 4903.3 | 4359.6 | 3852.4 |
| 15° | 3811.4 | 3867.8 | 4111.0 | 4630.1 | 5050.0 | 5219.4 | 5234.8 | 5162.0 | 4853.2 | 4369.6 | 3844.2 |
| 17.5° | 3918.8 | 3991.7 | 4237.6 | 4666.5 | 4867.8 | 4877.8 | 4889.7 | 4947.0 | 4858.7 | 4552.7 | 4009.9 |
| 20° | 4229.4 | 4307.7 | 4564.5 | 4784.0 | 4708.4 | 4604.6 | 4611.0 | 4758.5 | 4923.4 | 4855.1 | 4406.1 |
| 22.5° | 4677.5 | 4745.8 | 5009.0 | 4990.8 | 4641.0 | 4427.0 | 4382.4 | 4588.2 | 5019.0 | 5232.1 | 4827.7 |
| 25° | 5161.1 | 5241.2 | 5543.6 | 5297.7 | 4660.2 | 4321.4 | 4293.1 | 4488.0 | 5118.3 | 5584.6 | 5315.0 |
| 27.5° | 5714.8 | 5793.1 | 6031.7 | 5607.3 | 4760.3 | 4313.2 | 4279.5 | 4478.9 | 5207.5 | 5910.6 | 5780.4 |
| 30° | 6126.4 | 6198.4 | 6360.5 | 5867.8 | 4883.3 | 4367.8 | 4325.9 | 4550.9 | 5284.0 | 6133.7 | 6233.9 |
| 32.5° | 6449.7 | 6524.4 | 6612.8 | 6029.9 | 5045.4 | 4467.1 | 4389.7 | 4682.0 | 5384.2 | 6304.0 | 6570.0 |
| 35° | 6786.7 | 6875.0 | 6868.7 | 6173.8 | 5196.6 | 4581.8 | 4506.3 | 4871.5 | 5541.7 | 6452.5 | 6996.2 |
| 37.5° | 7213.8 | 7249.4 | 7203.8 | 6303.1 | 5377.8 | 4788.6 | 4746.7 | 5152.9 | 5765.8 | 6631.9 | 7494.3 |
| 40° | 7647.3 | 7718.4 | 7484.3 | 6459.8 | 5598.2 | 5177.5 | 5172.9 | 5569.1 | 6031.7 | 6842.3 | 7977.0 |
| 42.5° | 8018.9 | 8079.0 | 7746.6 | 6596.4 | 5865.1 | 5651.9 | 5686.6 | 6127.3 | 6380.5 | 7086.3 | 8365.0 |
| 45° | 8298.5 | 8352.2 | 7988.9 | 6728.4 | 6216.6 | 6200.2 | 6404.2 | 6725.7 | 6820.4 | 7305.8 | 8592.7 |
| 47.5° | 8536.2 | 8588.1 | 8157.3 | 6928.8 | 6651.0 | 6855.0 | 7210.2 | 7349.5 | 7196.5 | 7431.5 | 8847.7 |
| 50° | 8736.6 | 8752.0 | 8273.0 | 7167.4 | 7190.2 | 7657.4 | 8001.6 | 8091.8 | 7568.1 | 7611.8 | 9069.0 |
| 52.5° | 8945.1 | 8925.1 | 8472.5 | 7467.9 | 7773.0 | 8418.7 | 8669.2 | 8763.0 | 7924.2 | 7834.0 | 9391.4 |
| 55° | 9412.3 | 9431.4 | 8919.6 | 7846.8 | 8362.3 | 9166.4 | 9496.1 | 9405.9 | 8318.5 | 8243.0 | 9801.2 |
| 57.5° | 9977.0 | 9960.6 | 9548.9 | 8439.7 | 8962.4 | 9862.2 | 10108.1 | 9963.3 | 8844.9 | 8804.9 | 10216.5 |
| 60° | 10196.5 | 10218.3 | 10075.3 | 9077.2 | 9554.4 | 10471.5 | 10722.8 | 10497.9 | 9476.1 | 9457.9 | 10529.8 |
| 62.5° | 9976.1 | 10099.0 | 10195.5 | 9644.6 | 10058.9 | 10919.6 | 11169.1 | 10912.3 | 10134.5 | 10266.6 | 10749.3 |
| 65° | 9537.1 | 9563.5 | 9892.3 | 10125.4 | 10302.1 | 10993.3 | 11123.6 | 10987.0 | 10684.6 | 11003.4 | 10739.2 |
| 67.5° | 8967.0 | 8989.7 | 9375.0 | 10283.0 | 9988.8 | 10155.5 | 10246.5 | 10206.5 | 10514.3 | 11255.6 | 10244.7 |
| 70° | 8424.2 | 8406.0 | 8813.1 | 9881.3 | 8695.6 | 8442.4 | 8518.0 | 8392.3 | 9072.6 | 10639.1 | 9274.8 |
| 72.5° | 7367.7 | 7433.3 | 7870.5 | 8764.8 | 6885.1 | 6473.4 | 6638.3 | 6313.1 | 6978.0 | 9111.8 | 7528.0 |
| 75° | 5771.2 | 5786.7 | 6516.2 | 7355.9 | 5193.9 | 4544.5 | 4767.6 | 4631.9 | 5345.0 | 7600.9 | 5198.4 |
| 77.5° | 3996.3 | 3961.6 | 4745.8 | 5618.2 | 3703.9 | 3326.9 | 3330.5 | 3265.9 | 3732.1 | 5596.4 | 3531.8 |
| 80° | 2538.2 | 2485.4 | 2970.8 | 3470.8 | 2545.5 | 2723.1 | 2633.8 | 2631.1 | 2429.8 | 3452.5 | 2135.6 |
| 82.5° | 1371.5 | 1429.8 | 1877.0 | 2175.7 | 1826.0 | 2104.7 | 1928.9 | 1872.4 | 1667.5 | 2161.1 | 1366.1 |
| 85° | 624.8 | 679.4 | 1000.9 | 1479.9 | 1387.0 | 1402.5 | 937.1 | 1105.6 | 1379.7 | 1755.0 | 729.5 |
| 87.5° | 61.0 | 78.3 | 206.7 | 698.5 | 473.6 | 373.4 | 139.3 | 268.7 | 347.0 | 623.8 | 58.3 |
| 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: P453016

CATALOG NUMBER: GALN-SA4A-730-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 |
| 2.5° | 4715.7 | 4668.4 | 4507.2 | 4374.2 | 4233.0 | 4125.6 | 3985.3 | 3891.5 | 3826.9 | 3729.4 | 3717.6 |
| 5° | 4499.0 | 4383.3 | 4102.8 | 3816.8 | 3570.0 | 3384.2 | 3195.7 | 3022.7 | 2920.7 | 2888.8 | 2847.8 |
| 7.5° | 4133.8 | 3938.9 | 3578.2 | 3250.4 | 2967.1 | 2690.3 | 2477.2 | 2326.0 | 2224.9 | 2165.7 | 2094.7 |
| 10° | 3833.2 | 3607.4 | 3168.4 | 2766.8 | 2533.6 | 2361.5 | 2173.9 | 2011.8 | 1887.0 | 1780.5 | 1722.2 |
| 12.5° | 3631.1 | 3376.0 | 2882.4 | 2556.4 | 2376.1 | 2193.0 | 1973.5 | 1791.4 | 1607.4 | 1486.3 | 1434.4 |
| 15° | 3570.0 | 3300.5 | 2794.1 | 2451.7 | 2193.0 | 1953.5 | 1707.6 | 1469.9 | 1287.8 | 1173.0 | 1134.8 |
| 17.5° | 3719.4 | 3393.4 | 2793.2 | 2312.3 | 1978.1 | 1692.1 | 1377.0 | 1153.9 | 967.2 | 881.6 | 854.3 |
| 20° | 3998.1 | 3571.9 | 2801.4 | 2174.8 | 1744.9 | 1342.4 | 1001.8 | 818.7 | 729.5 | 693.1 | 679.4 |
| 22.5° | 4387.0 | 3844.2 | 2826.0 | 2039.1 | 1489.9 | 1030.9 | 750.4 | 657.5 | 625.7 | 619.3 | 616.6 |
| 25° | 4866.0 | 4181.1 | 2908.8 | 1917.1 | 1275.0 | 786.9 | 627.5 | 585.6 | 567.4 | 561.0 | 560.1 |
| 27.5° | 5306.8 | 4616.5 | 3009.0 | 1812.3 | 1067.4 | 678.5 | 567.4 | 531.9 | 513.6 | 512.7 | 514.6 |
| 30° | 5704.8 | 4980.7 | 3092.8 | 1694.9 | 909.8 | 602.9 | 528.2 | 492.7 | 475.4 | 474.5 | 480.0 |
| 32.5° | 6049.0 | 5280.4 | 3154.7 | 1579.2 | 822.4 | 556.5 | 492.7 | 454.5 | 439.9 | 437.1 | 439.9 |
| 35° | 6417.0 | 5579.1 | 3126.5 | 1489.0 | 772.3 | 518.2 | 466.3 | 429.0 | 411.6 | 403.5 | 403.5 |
| 37.5° | 6836.8 | 5886.9 | 3078.2 | 1414.4 | 749.5 | 486.3 | 443.5 | 407.1 | 389.8 | 381.6 | 380.7 |
| 40° | 7294.9 | 6194.7 | 3011.8 | 1347.9 | 726.8 | 467.2 | 428.0 | 389.8 | 368.8 | 360.6 | 358.8 |
| 42.5° | 7699.2 | 6457.9 | 2957.1 | 1304.2 | 689.4 | 470.8 | 414.4 | 377.0 | 350.6 | 339.7 | 338.8 |
| 45° | 8050.8 | 6723.0 | 2947.1 | 1278.7 | 658.5 | 465.4 | 410.7 | 367.0 | 336.1 | 324.2 | 322.4 |
| 47.5° | 8325.8 | 6998.9 | 3004.5 | 1264.1 | 624.8 | 436.2 | 434.4 | 360.6 | 323.3 | 310.6 | 308.7 |
| 50° | 8661.0 | 7390.5 | 3135.6 | 1234.0 | 593.8 | 408.9 | 459.0 | 359.7 | 313.3 | 296.9 | 292.3 |
| 52.5° | 9107.2 | 7900.5 | 3313.2 | 1180.3 | 549.2 | 383.4 | 438.1 | 359.7 | 301.4 | 285.1 | 279.6 |
| 55° | 9782.1 | 8550.8 | 3487.2 | 1104.7 | 486.3 | 349.7 | 395.3 | 348.8 | 284.1 | 269.6 | 265.9 |
| 57.5° | 10229.2 | 9026.2 | 3598.3 | 1000.0 | 408.0 | 325.1 | 340.6 | 331.5 | 266.8 | 251.4 | 251.4 |
| 60° | 10252.0 | 9153.7 | 3545.4 | 867.9 | 358.8 | 302.4 | 296.0 | 334.2 | 251.4 | 235.0 | 233.1 |
| 62.5° | 9989.7 | 8841.3 | 3270.4 | 749.5 | 332.4 | 277.8 | 267.8 | 293.3 | 235.9 | 219.5 | 216.8 |
| 65° | 9579.9 | 8044.4 | 2793.2 | 693.1 | 317.8 | 255.9 | 241.3 | 240.4 | 219.5 | 204.0 | 200.4 |
| 67.5° | 8826.7 | 7029.9 | 2295.0 | 660.3 | 310.6 | 231.3 | 217.7 | 213.1 | 200.4 | 187.6 | 185.8 |
| 70° | 7716.6 | 5887.8 | 1840.6 | 646.6 | 306.9 | 205.8 | 194.9 | 189.4 | 178.5 | 168.5 | 167.6 |
| 72.5° | 6003.5 | 4775.8 | 1519.1 | 637.5 | 305.1 | 182.1 | 170.3 | 163.0 | 156.6 | 147.5 | 147.5 |
| 75° | 4312.3 | 3513.6 | 1159.3 | 574.7 | 282.3 | 156.6 | 143.9 | 139.3 | 130.2 | 122.9 | 124.8 |
| 77.5° | 2718.5 | 2366.1 | 763.2 | 422.6 | 218.6 | 125.7 | 114.8 | 112.0 | 104.7 | 94.7 | 101.1 |
| 80° | 1836.0 | 1663.9 | 445.3 | 265.9 | 137.5 | 92.0 | 88.3 | 87.4 | 79.2 | 68.3 | 69.2 |
| 82.5° | 1249.5 | 1225.8 | 231.3 | 151.2 | 79.2 | 53.7 | 51.9 | 53.7 | 44.6 | 36.4 | 36.4 |
| 85° | 488.1 | 666.6 | 109.3 | 59.2 | 25.5 | 8.2 | 11.8 | 12.8 | 7.3 | 3.6 | 4.6 |
| 87.5° | 9.1 | 68.3 | 2.7 | 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: P453016

CATALOG NUMBER: GALN-SA4A-730-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 | 4437.0 |
| 2.5° | 3699.4 | 3691.2 | 3704.8 | 3646.5 | 3658.4 | 3680.2 | 3691.2 | 3697.5 | 3787.7 | 3766.7 | 3824.1 |
| 5° | 2886.1 | 2877.9 | 2930.7 | 2938.0 | 2965.3 | 2959.8 | 2986.3 | 2992.6 | 3025.4 | 3037.3 | 3117.4 |
| 7.5° | 2099.2 | 2134.7 | 2194.8 | 2225.8 | 2272.3 | 2286.8 | 2273.2 | 2306.9 | 2238.6 | 2287.7 | 2302.3 |
| 10° | 1686.7 | 1643.9 | 1618.4 | 1689.4 | 1698.5 | 1765.9 | 1738.6 | 1716.7 | 1756.8 | 1758.6 | 1796.9 |
| 12.5° | 1404.3 | 1312.4 | 1251.3 | 1271.4 | 1293.2 | 1322.4 | 1326.9 | 1370.6 | 1399.8 | 1427.1 | 1449.9 |
| 15° | 1101.1 | 1069.2 | 1013.6 | 986.3 | 1017.3 | 1029.1 | 1057.3 | 1093.8 | 1124.7 | 1132.9 | 1163.9 |
| 17.5° | 845.2 | 850.6 | 841.5 | 825.1 | 844.2 | 853.3 | 855.2 | 856.1 | 864.3 | 858.8 | 904.3 |
| 20° | 680.3 | 699.4 | 722.2 | 725.8 | 732.2 | 736.8 | 728.6 | 697.6 | 698.5 | 717.6 | 732.2 |
| 22.5° | 615.6 | 619.3 | 644.8 | 653.0 | 673.0 | 664.8 | 641.1 | 626.6 | 624.8 | 629.3 | 636.6 |
| 25° | 564.6 | 570.1 | 588.3 | 601.1 | 616.6 | 602.0 | 584.7 | 571.0 | 569.2 | 573.8 | 581.0 |
| 27.5° | 519.1 | 527.3 | 543.7 | 556.5 | 571.0 | 557.4 | 541.0 | 529.1 | 528.2 | 527.3 | 531.9 |
| 30° | 482.7 | 491.8 | 503.6 | 518.2 | 528.2 | 516.4 | 500.9 | 494.5 | 493.6 | 491.8 | 493.6 |
| 32.5° | 446.3 | 460.8 | 472.7 | 480.0 | 490.0 | 480.9 | 469.0 | 465.4 | 459.0 | 453.5 | 450.8 |
| 35° | 405.3 | 420.8 | 439.0 | 448.1 | 458.1 | 449.0 | 440.8 | 425.3 | 414.4 | 413.5 | 415.3 |
| 37.5° | 381.6 | 388.0 | 402.5 | 418.0 | 428.0 | 423.5 | 408.0 | 392.5 | 389.8 | 389.8 | 391.6 |
| 40° | 360.6 | 363.4 | 369.8 | 389.8 | 408.0 | 394.3 | 375.2 | 370.7 | 370.7 | 369.8 | 370.7 |
| 42.5° | 339.7 | 342.4 | 342.4 | 357.9 | 387.1 | 365.2 | 350.6 | 350.6 | 350.6 | 351.5 | 354.3 |
| 45° | 320.6 | 321.5 | 320.6 | 331.5 | 358.8 | 340.6 | 330.6 | 333.3 | 335.1 | 337.0 | 338.8 |
| 47.5° | 304.2 | 305.1 | 304.2 | 313.3 | 326.9 | 319.7 | 314.2 | 317.8 | 321.5 | 324.2 | 326.0 |
| 50° | 289.6 | 288.7 | 290.5 | 296.0 | 302.4 | 304.2 | 300.5 | 306.0 | 307.8 | 311.5 | 316.0 |
| 52.5° | 276.9 | 275.9 | 277.8 | 280.5 | 289.6 | 289.6 | 289.6 | 294.2 | 297.8 | 301.4 | 307.8 |
| 55° | 262.3 | 263.2 | 265.9 | 269.6 | 281.4 | 279.6 | 280.5 | 284.1 | 287.8 | 293.3 | 296.9 |
| 57.5° | 248.6 | 250.4 | 254.1 | 259.6 | 271.4 | 270.5 | 271.4 | 273.2 | 277.8 | 280.5 | 284.1 |
| 60° | 233.1 | 236.8 | 241.3 | 245.0 | 256.8 | 255.9 | 260.5 | 264.1 | 266.8 | 266.8 | 268.7 |
| 62.5° | 217.7 | 223.1 | 227.7 | 230.4 | 243.2 | 244.1 | 250.4 | 253.2 | 255.0 | 253.2 | 255.9 |
| 65° | 202.2 | 210.4 | 212.2 | 215.8 | 228.6 | 229.5 | 236.8 | 243.2 | 241.3 | 239.5 | 244.1 |
| 67.5° | 186.7 | 196.7 | 195.8 | 200.4 | 213.1 | 214.9 | 221.3 | 232.2 | 228.6 | 226.8 | 230.4 |
| 70° | 169.4 | 176.7 | 177.6 | 180.3 | 197.6 | 194.9 | 204.9 | 214.9 | 212.2 | 213.1 | 213.1 |
| 72.5° | 150.3 | 156.6 | 156.6 | 162.1 | 180.3 | 175.8 | 184.0 | 194.9 | 194.9 | 194.0 | 194.0 |
| 75° | 127.5 | 131.1 | 134.8 | 143.0 | 162.1 | 156.6 | 162.1 | 172.1 | 173.9 | 172.1 | 172.1 |
| 77.5° | 102.9 | 108.4 | 110.2 | 121.1 | 134.8 | 133.9 | 139.3 | 143.9 | 147.5 | 145.7 | 145.7 |
| 80° | 72.9 | 78.3 | 85.6 | 97.4 | 105.6 | 108.4 | 111.1 | 114.8 | 116.6 | 116.6 | 118.4 |
| 82.5° | 41.0 | 49.2 | 55.6 | 67.4 | 71.0 | 84.7 | 83.8 | 86.5 | 83.8 | 73.8 | 82.0 |
| 85° | 9.1 | 17.3 | 24.6 | 31.0 | 35.5 | 49.2 | 51.9 | 58.3 | 48.3 | 44.6 | 44.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 14.6 | 20.0 | 17.3 | 14.6 | 14.6 |
| 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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