

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: P528699

Luminaire Tested: **GALN-SA3D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13480 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

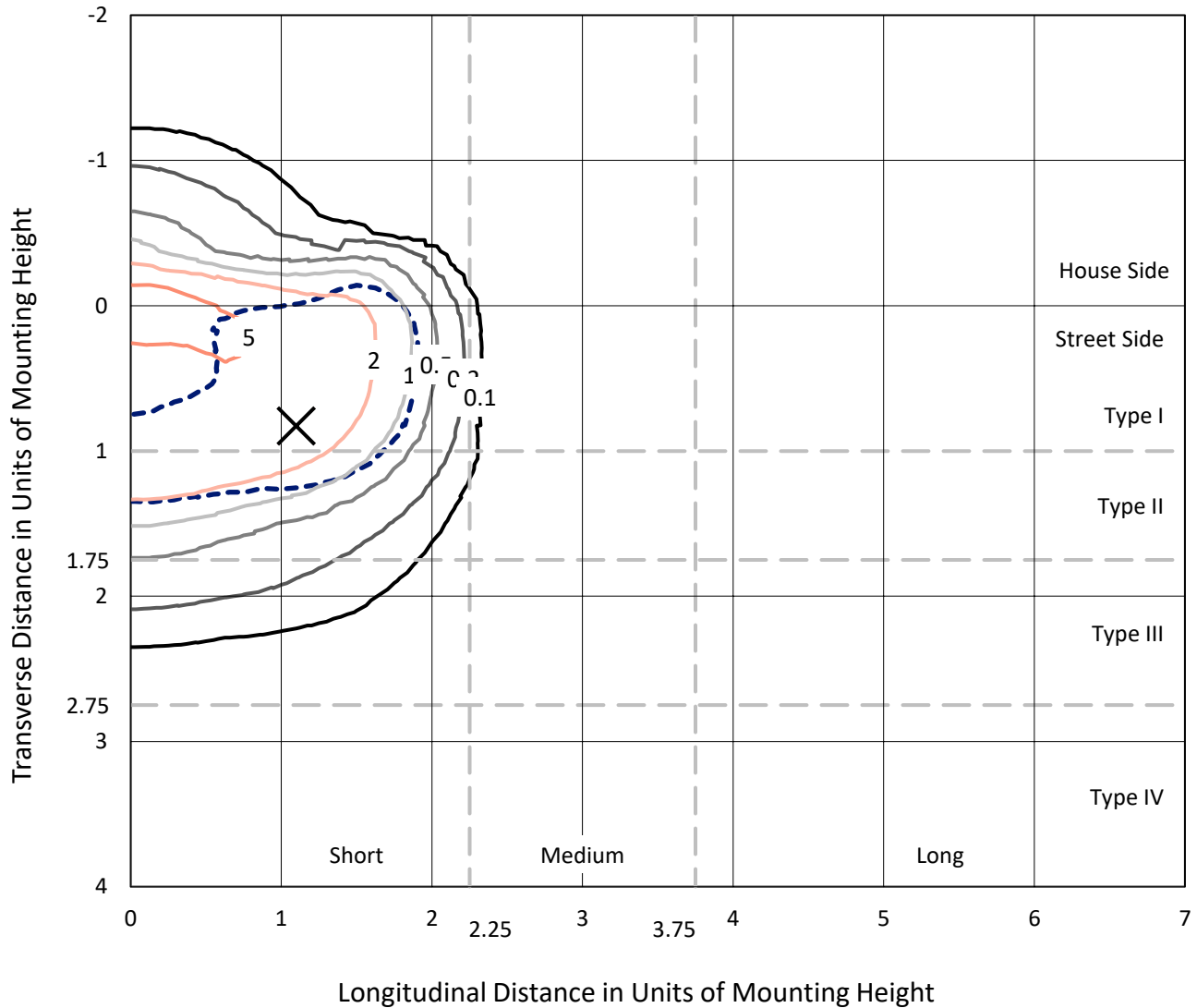
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528699
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Iso-Footcandle Lines of Horizontal Illumination

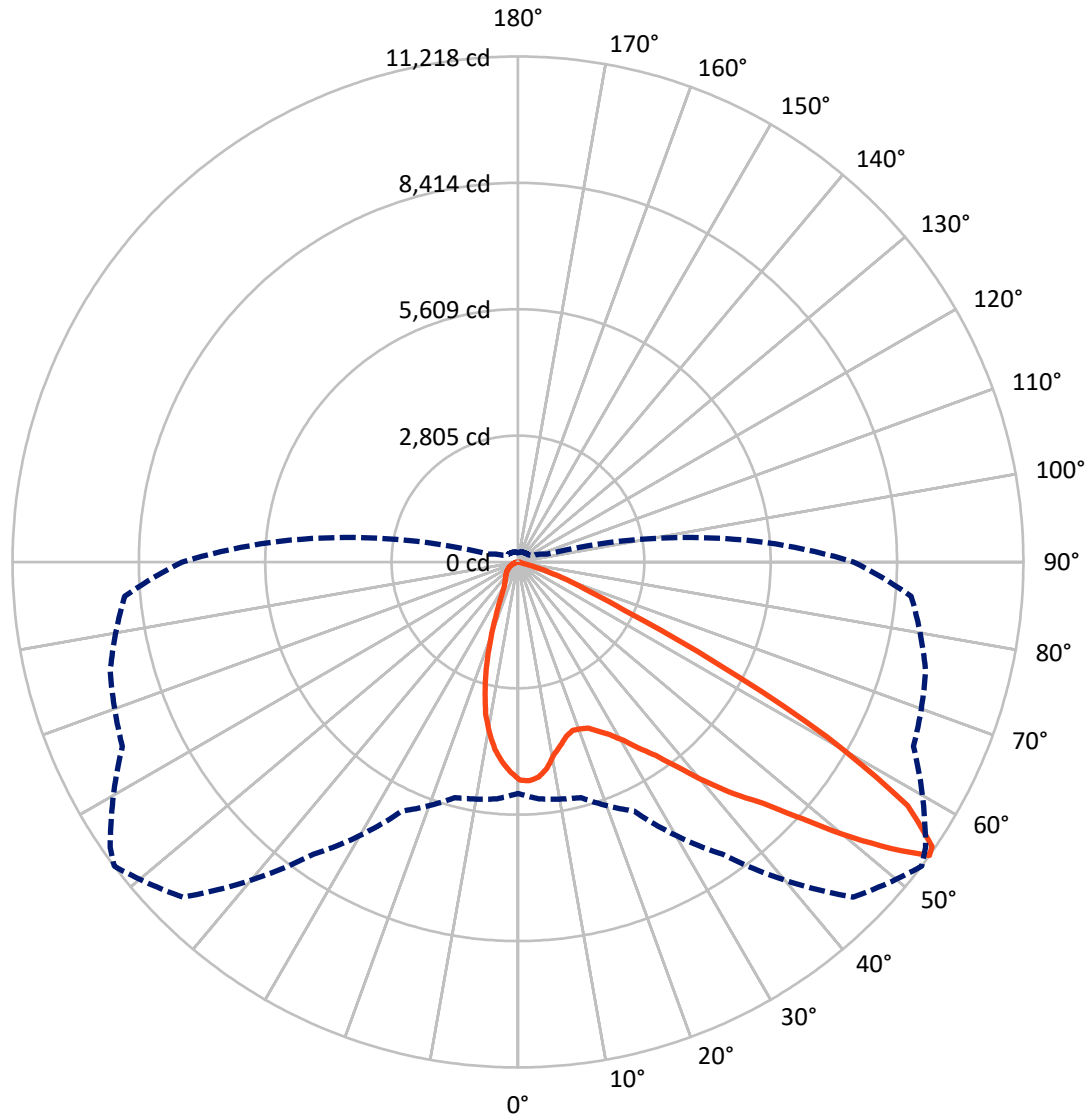
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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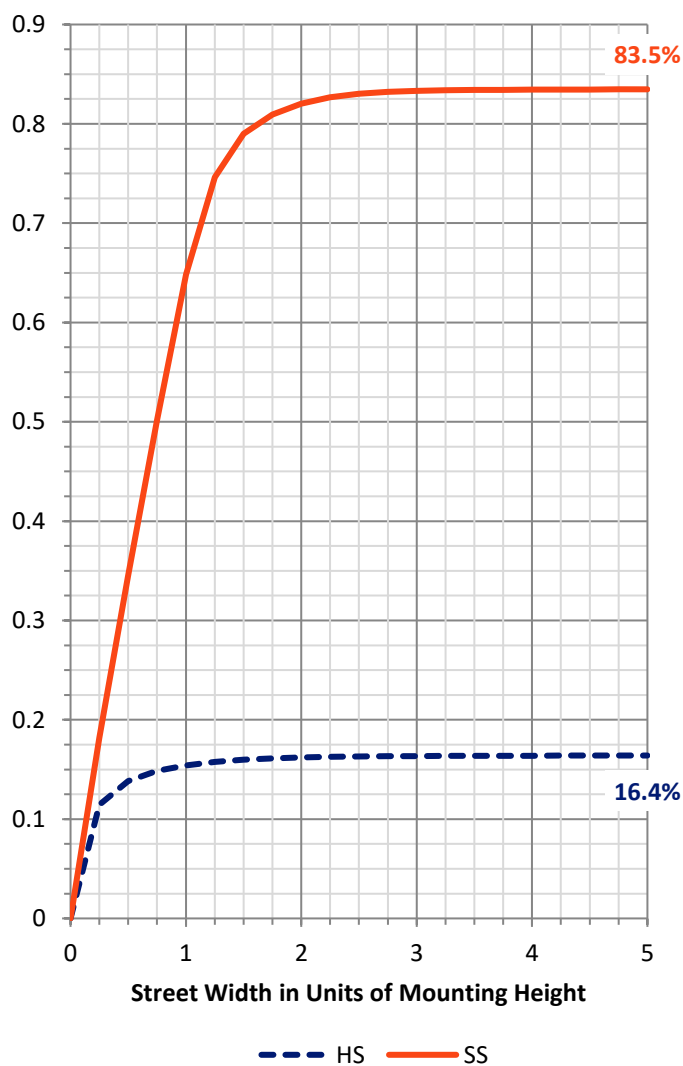
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2230.3 | 0.0 | 2230.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 11249.7 | 0.0 | 11249.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 13480.0 | 0.0 | 13480.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 415.4 | 3.1 |
| 10°-20° | 952.4 | 7.1 |
| 20°-30° | 1353.6 | 10.0 |
| 30°-40° | 2088.9 | 15.5 |
| 40°-50° | 3275.3 | 24.3 |
| 50°-60° | 3804.7 | 28.2 |
| 60°-70° | 1437.6 | 10.7 |
| 70°-80° | 136.7 | 1.0 |
| 80°-90° | 15.4 | 0.1 |
| 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° | 13480.0 | 100.0 |
| 0°-180° | 13480.0 | 100.0 |

Coefficient of Utilization



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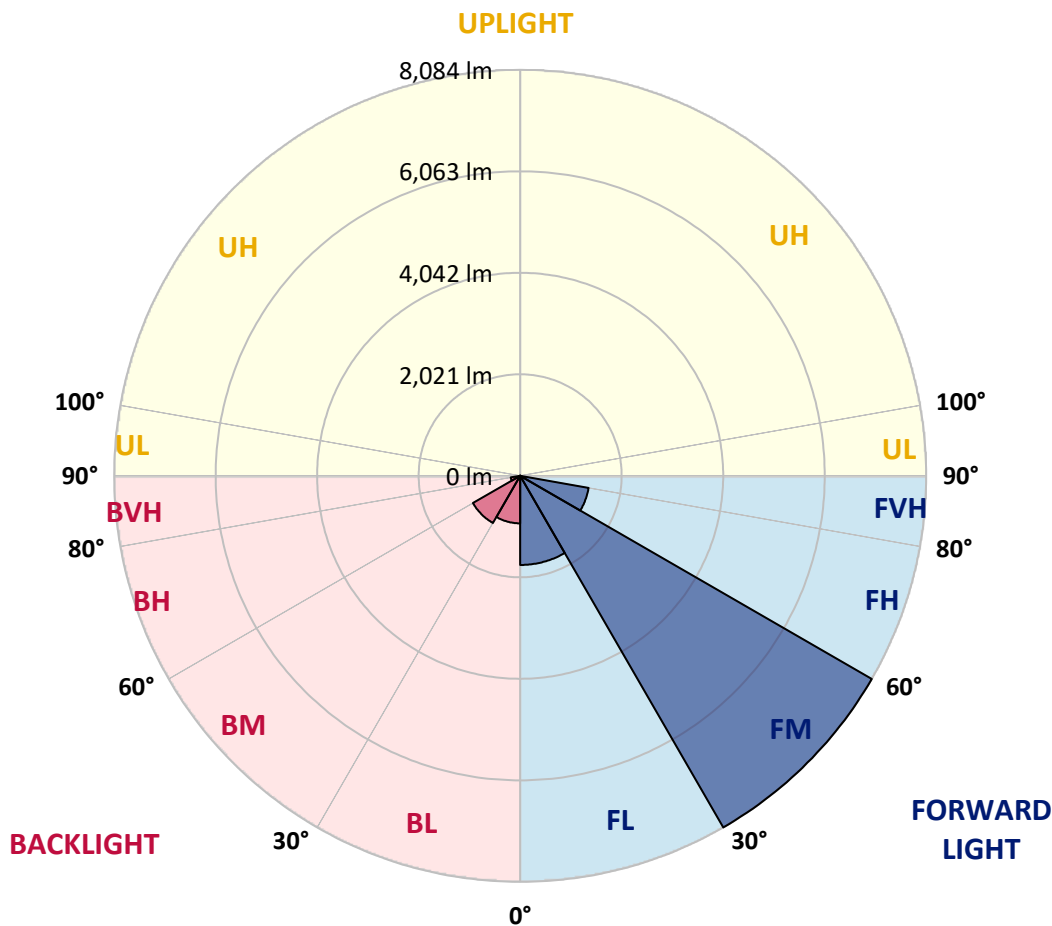
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1775.0 | 13.2 | | | |
| FM (30°-60°) | 8083.5 | 60.0 | | | |
| FH (60°-80°) | 1383.3 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 7.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 946.4 | 7.0 | B2/1000 | | |
| BM (30°-60°) | 1085.3 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 191.1 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 |
| 2.5° | 4816.7 | 4774.0 | 4816.7 | 4821.7 | 4851.8 | 4879.5 | 4861.9 | 4902.1 | 4879.5 | 4854.3 | 4846.8 |
| 5° | 4427.4 | 4485.2 | 4487.7 | 4578.1 | 4558.0 | 4723.8 | 4796.6 | 4776.5 | 4899.5 | 4892.0 | 4874.4 |
| 7.5° | 4078.4 | 4055.8 | 4085.9 | 4191.4 | 4324.5 | 4515.3 | 4620.8 | 4618.3 | 4794.1 | 4919.6 | 4907.1 |
| 10° | 3754.4 | 3751.9 | 3814.7 | 3897.5 | 4010.5 | 4211.5 | 4357.1 | 4429.9 | 4703.7 | 4894.5 | 4922.2 |
| 12.5° | 3535.9 | 3525.9 | 3593.7 | 3661.5 | 3839.8 | 3995.5 | 4181.3 | 4216.5 | 4530.4 | 4806.6 | 4851.8 |
| 15° | 3392.8 | 3415.4 | 3420.4 | 3551.0 | 3664.0 | 3869.9 | 4015.6 | 4088.4 | 4450.0 | 4736.3 | 4909.6 |
| 17.5° | 3367.7 | 3397.8 | 3400.3 | 3508.3 | 3628.8 | 3802.1 | 3930.2 | 4028.1 | 4382.2 | 4771.5 | 4912.1 |
| 20° | 3417.9 | 3400.3 | 3415.4 | 3483.2 | 3601.2 | 3767.0 | 3952.8 | 3985.4 | 4359.6 | 4789.1 | 4939.7 |
| 22.5° | 3561.0 | 3556.0 | 3518.3 | 3573.6 | 3656.5 | 3829.7 | 4005.5 | 4055.8 | 4424.9 | 4879.5 | 4962.3 |
| 25° | 3719.2 | 3746.9 | 3711.7 | 3704.2 | 3761.9 | 3932.7 | 4166.2 | 4231.5 | 4643.4 | 5042.7 | 5032.6 |
| 27.5° | 4015.6 | 3987.9 | 3987.9 | 3952.8 | 3937.7 | 4020.6 | 4339.5 | 4447.5 | 4887.0 | 5253.6 | 5113.0 |
| 30° | 4299.3 | 4329.5 | 4306.9 | 4319.4 | 4219.0 | 4211.5 | 4585.6 | 4718.7 | 5318.9 | 5575.1 | 5283.8 |
| 32.5° | 4748.9 | 4708.7 | 4746.4 | 4713.7 | 4580.6 | 4445.0 | 4919.6 | 5057.8 | 5841.3 | 5944.2 | 5539.9 |
| 35° | 5123.1 | 5105.5 | 5266.2 | 5261.2 | 5045.2 | 4912.1 | 5273.7 | 5479.7 | 6205.4 | 6386.2 | 5841.3 |
| 37.5° | 5655.5 | 5622.8 | 5806.1 | 5894.0 | 5700.7 | 5502.3 | 5781.0 | 6019.6 | 6544.5 | 6740.3 | 6150.2 |
| 40° | 6202.9 | 6285.8 | 6531.9 | 6677.5 | 6471.6 | 6207.9 | 6401.3 | 6474.1 | 6770.5 | 6971.4 | 6361.1 |
| 42.5° | 6896.0 | 7016.6 | 7267.7 | 7393.3 | 7375.7 | 7089.4 | 7031.6 | 7029.1 | 6933.7 | 6906.1 | 6516.8 |
| 45° | 7561.5 | 7516.3 | 7903.1 | 8176.8 | 8397.8 | 8314.9 | 7639.4 | 7564.0 | 7192.4 | 7004.0 | 6557.0 |
| 47.5° | 7852.8 | 7837.8 | 8101.5 | 8588.7 | 9342.0 | 9445.0 | 8523.4 | 8232.0 | 7629.3 | 7415.9 | 6775.5 |
| 50° | 7476.1 | 7554.0 | 7815.2 | 8355.1 | 9510.3 | 10296.3 | 9608.2 | 9216.5 | 8139.1 | 7918.1 | 7292.8 |
| 52.5° | 6245.6 | 6298.3 | 6547.0 | 7232.5 | 8937.7 | 10798.6 | 10647.9 | 10421.9 | 9075.8 | 8709.2 | 8194.4 |
| 54° | 5135.6 | 5276.2 | 5411.9 | 6100.0 | 7918.1 | 10519.8 | 11218.0 | 11044.7 | 9686.1 | 9367.2 | 8761.9 |
| 55° | 4472.6 | 4555.5 | 4653.4 | 5339.0 | 7212.5 | 10047.7 | 11152.7 | 11167.8 | 10095.4 | 9573.1 | 9143.6 |
| 57.5° | 3267.2 | 3325.0 | 3224.5 | 3528.4 | 4952.3 | 8159.2 | 10200.9 | 10607.7 | 10647.9 | 9882.0 | 9377.2 |
| 60° | 2496.2 | 2521.3 | 2408.3 | 2456.1 | 3078.9 | 5600.2 | 7890.5 | 8380.2 | 9605.7 | 8636.4 | 7943.2 |
| 62.5° | 1936.2 | 1941.2 | 1938.7 | 2021.6 | 2122.0 | 3294.8 | 4934.7 | 5369.2 | 6622.3 | 6132.6 | 5394.3 |
| 65° | 1426.4 | 1403.8 | 1444.0 | 1695.1 | 1810.6 | 2071.8 | 2599.2 | 2915.6 | 3598.7 | 3038.7 | 2172.3 |
| 67.5° | 924.2 | 931.7 | 971.9 | 1260.7 | 1552.0 | 1589.7 | 1599.7 | 1574.6 | 1577.1 | 868.9 | 545.0 |
| 70° | 555.0 | 567.6 | 555.0 | 713.2 | 1110.0 | 1140.1 | 1042.2 | 1017.1 | 793.6 | 205.9 | 203.4 |
| 72.5° | 329.0 | 311.4 | 278.8 | 306.4 | 462.1 | 552.5 | 497.2 | 494.7 | 311.4 | 120.5 | 120.5 |
| 75° | 138.1 | 125.6 | 103.0 | 92.9 | 123.1 | 118.0 | 118.0 | 105.5 | 82.9 | 80.4 | 75.3 |
| 77.5° | 27.6 | 27.6 | 20.1 | 22.6 | 30.1 | 35.2 | 42.7 | 42.7 | 50.2 | 50.2 | 47.7 |
| 80° | 0.0 | 2.5 | 7.5 | 15.1 | 22.6 | 32.6 | 37.7 | 37.7 | 42.7 | 42.7 | 35.2 |
| 82.5° | 0.0 | 2.5 | 7.5 | 15.1 | 20.1 | 30.1 | 37.7 | 37.7 | 42.7 | 45.2 | 37.7 |
| 85° | 0.0 | 2.5 | 7.5 | 12.6 | 20.1 | 25.1 | 25.1 | 22.6 | 17.6 | 15.1 | 10.0 |
| 87.5° | 0.0 | 0.0 | 2.5 | 5.0 | 2.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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-SA3D-740-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 | 4841.8 |
| 2.5° | 4864.4 | 4861.9 | 4801.6 | 4703.7 | 4681.1 | 4598.2 | 4588.1 | 4537.9 | 4565.5 | 4472.6 | 4462.6 |
| 5° | 4824.2 | 4794.1 | 4721.2 | 4658.5 | 4475.1 | 4344.6 | 4241.6 | 4116.0 | 4043.2 | 4055.8 | 4008.0 |
| 7.5° | 4882.0 | 4804.1 | 4676.0 | 4457.6 | 4234.1 | 4005.5 | 3882.5 | 3626.3 | 3533.4 | 3395.3 | 3375.2 |
| 10° | 4821.7 | 4763.9 | 4565.5 | 4203.9 | 3895.0 | 3566.0 | 3277.2 | 2993.5 | 2777.5 | 2684.6 | 2664.5 |
| 12.5° | 4816.7 | 4716.2 | 4384.7 | 3982.9 | 3535.9 | 3063.8 | 2644.4 | 2290.3 | 2076.8 | 1956.3 | 1928.7 |
| 15° | 4738.8 | 4618.3 | 4181.3 | 3641.4 | 3023.6 | 2436.0 | 1978.9 | 1637.4 | 1474.1 | 1403.8 | 1423.9 |
| 17.5° | 4746.4 | 4565.5 | 3977.9 | 3279.8 | 2518.8 | 1788.0 | 1351.1 | 1175.3 | 1132.6 | 1150.2 | 1150.2 |
| 20° | 4738.8 | 4447.5 | 3731.8 | 2862.9 | 1928.7 | 1240.6 | 992.0 | 929.2 | 956.8 | 1012.1 | 999.5 |
| 22.5° | 4698.6 | 4392.3 | 3505.8 | 2423.4 | 1418.9 | 919.1 | 796.1 | 798.6 | 841.3 | 909.1 | 924.2 |
| 25° | 4728.8 | 4269.2 | 3219.5 | 1978.9 | 1034.7 | 733.3 | 690.6 | 708.2 | 753.4 | 803.6 | 813.7 |
| 27.5° | 4706.2 | 4181.3 | 2920.6 | 1536.9 | 755.9 | 630.3 | 627.8 | 647.9 | 668.0 | 705.7 | 705.7 |
| 30° | 4731.3 | 4101.0 | 2626.8 | 1142.6 | 622.8 | 577.6 | 567.6 | 582.6 | 602.7 | 610.2 | 607.7 |
| 32.5° | 4824.2 | 4040.7 | 2287.8 | 853.8 | 550.0 | 527.4 | 527.4 | 527.4 | 524.9 | 534.9 | 537.4 |
| 35° | 5027.6 | 4050.7 | 1989.0 | 660.5 | 502.3 | 484.7 | 477.1 | 467.1 | 462.1 | 467.1 | 469.6 |
| 37.5° | 5248.6 | 4045.7 | 1680.1 | 562.5 | 467.1 | 452.0 | 434.5 | 419.4 | 416.9 | 421.9 | 414.4 |
| 40° | 5346.6 | 4093.4 | 1393.8 | 504.8 | 434.5 | 416.9 | 389.3 | 376.7 | 379.2 | 384.2 | 379.2 |
| 42.5° | 5479.7 | 4108.5 | 1207.9 | 459.6 | 404.3 | 376.7 | 359.1 | 344.0 | 341.5 | 349.1 | 346.6 |
| 45° | 5477.1 | 4023.1 | 1012.1 | 434.5 | 376.7 | 346.6 | 324.0 | 311.4 | 311.4 | 316.4 | 318.9 |
| 47.5° | 5637.9 | 4010.5 | 868.9 | 411.9 | 356.6 | 326.5 | 298.8 | 288.8 | 286.3 | 286.3 | 281.3 |
| 50° | 6012.1 | 4186.3 | 758.4 | 386.7 | 331.5 | 303.9 | 281.3 | 268.7 | 258.7 | 253.6 | 251.1 |
| 52.5° | 6742.8 | 4733.8 | 673.0 | 356.6 | 303.9 | 281.3 | 261.2 | 251.1 | 238.6 | 226.0 | 223.5 |
| 54° | 7451.0 | 5298.8 | 668.0 | 331.5 | 281.3 | 266.2 | 248.6 | 243.6 | 228.5 | 210.9 | 205.9 |
| 55° | 7770.0 | 5627.8 | 685.6 | 311.4 | 266.2 | 256.2 | 241.1 | 236.1 | 221.0 | 200.9 | 198.4 |
| 57.5° | 8033.7 | 5755.9 | 675.5 | 258.7 | 241.1 | 238.6 | 226.0 | 218.5 | 200.9 | 173.3 | 168.3 |
| 60° | 6466.6 | 4352.1 | 484.7 | 228.5 | 221.0 | 216.0 | 205.9 | 200.9 | 178.3 | 148.2 | 145.7 |
| 62.5° | 4085.9 | 2503.8 | 308.9 | 200.9 | 193.4 | 185.8 | 173.3 | 168.3 | 148.2 | 118.0 | 110.5 |
| 65° | 1740.3 | 1037.2 | 208.4 | 178.3 | 165.7 | 153.2 | 143.1 | 135.6 | 118.0 | 87.9 | 85.4 |
| 67.5° | 452.0 | 369.2 | 173.3 | 155.7 | 138.1 | 120.5 | 113.0 | 100.5 | 80.4 | 60.3 | 57.8 |
| 70° | 203.4 | 185.8 | 145.7 | 130.6 | 110.5 | 92.9 | 82.9 | 70.3 | 52.7 | 40.2 | 37.7 |
| 72.5° | 120.5 | 118.0 | 110.5 | 97.9 | 82.9 | 70.3 | 60.3 | 47.7 | 35.2 | 22.6 | 22.6 |
| 75° | 75.3 | 72.8 | 75.3 | 67.8 | 57.8 | 52.7 | 45.2 | 32.6 | 20.1 | 10.0 | 10.0 |
| 77.5° | 45.2 | 45.2 | 45.2 | 42.7 | 40.2 | 40.2 | 32.6 | 20.1 | 10.0 | 2.5 | 2.5 |
| 80° | 35.2 | 35.2 | 37.7 | 35.2 | 35.2 | 35.2 | 27.6 | 15.1 | 5.0 | 0.0 | 0.0 |
| 82.5° | 35.2 | 37.7 | 42.7 | 40.2 | 35.2 | 30.1 | 25.1 | 15.1 | 5.0 | 0.0 | 0.0 |
| 85° | 10.0 | 7.5 | 12.6 | 17.6 | 25.1 | 22.6 | 17.6 | 12.6 | 5.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 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)