

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: P647330

Luminaire Tested: **GALN-SA3D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14957.6 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

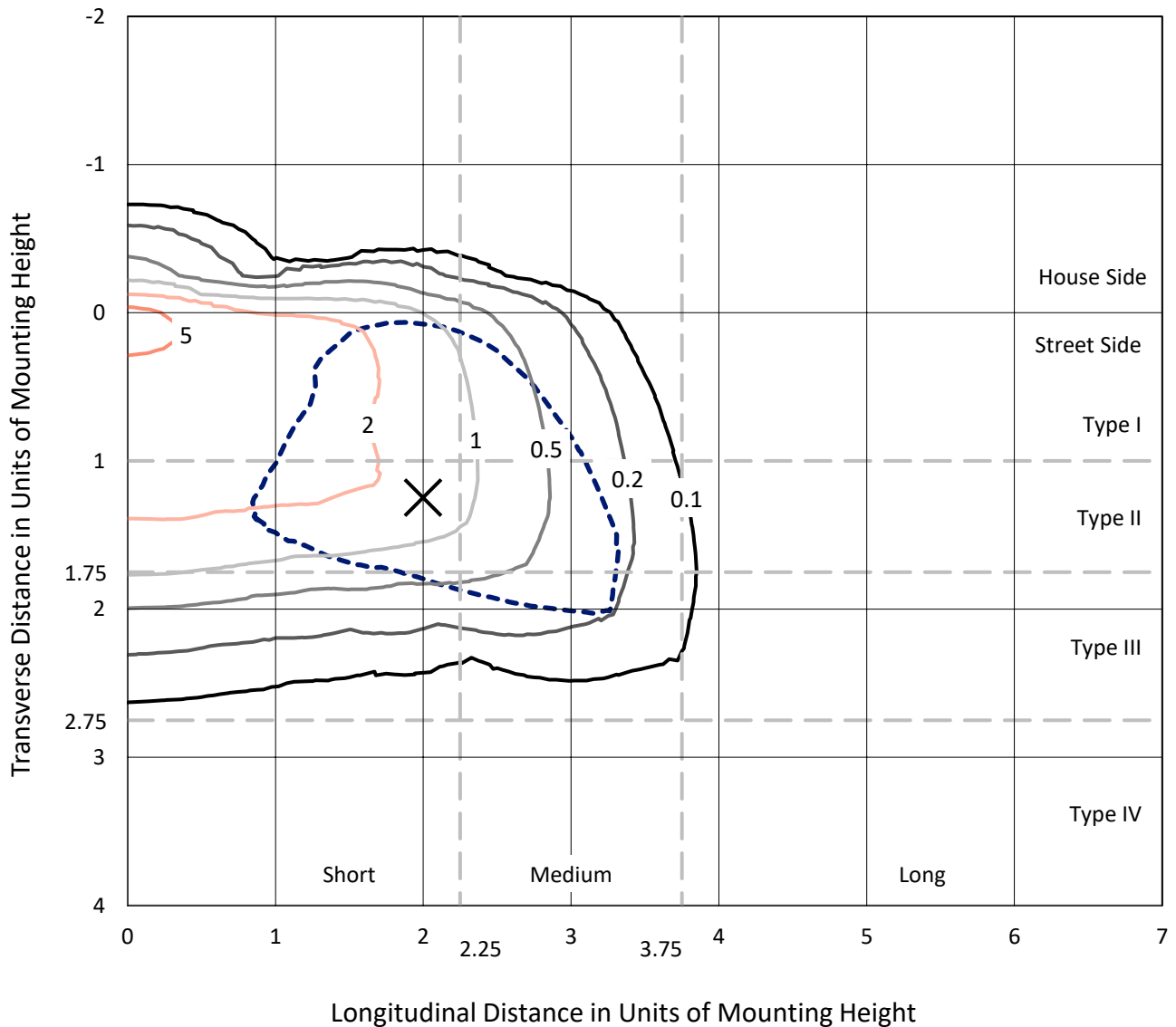
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

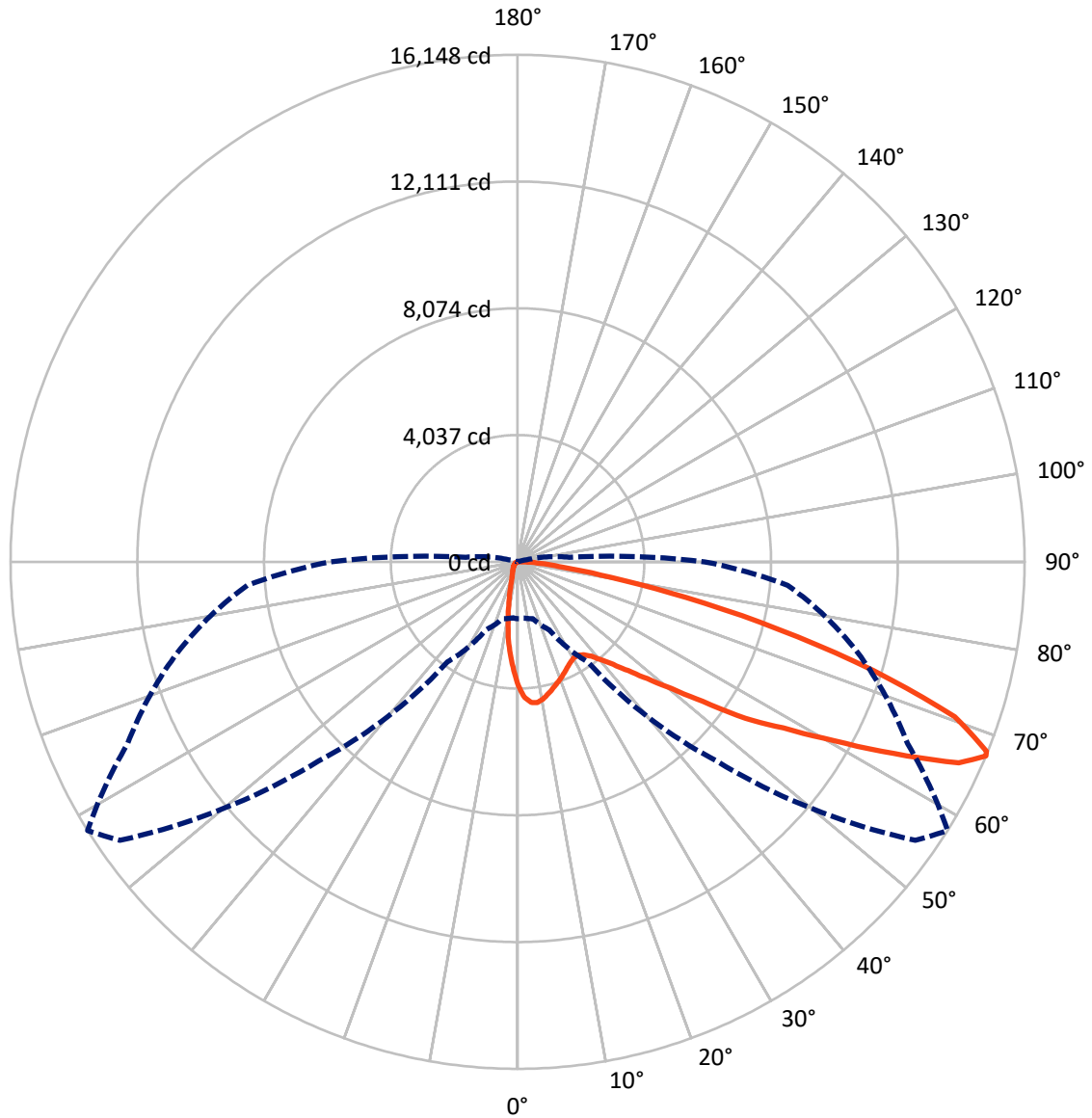
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1079.4 | 0.0 | 1079.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 13878.2 | 0.0 | 13878.2 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 14957.6 | 0.0 | 14957.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 321.8 | 2.2 |
| 10°-20° | 694.9 | 4.6 |
| 20°-30° | 941.7 | 6.3 |
| 30°-40° | 1306.0 | 8.7 |
| 40°-50° | 2083.0 | 13.9 |
| 50°-60° | 3600.6 | 24.1 |
| 60°-70° | 4113.0 | 27.5 |
| 70°-80° | 1714.8 | 11.5 |
| 80°-90° | 181.8 | 1.2 |
| 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° | 14957.6 | 100.0 |
| 0°-180° | 14957.6 | 100.0 |

Coefficient of Utilization



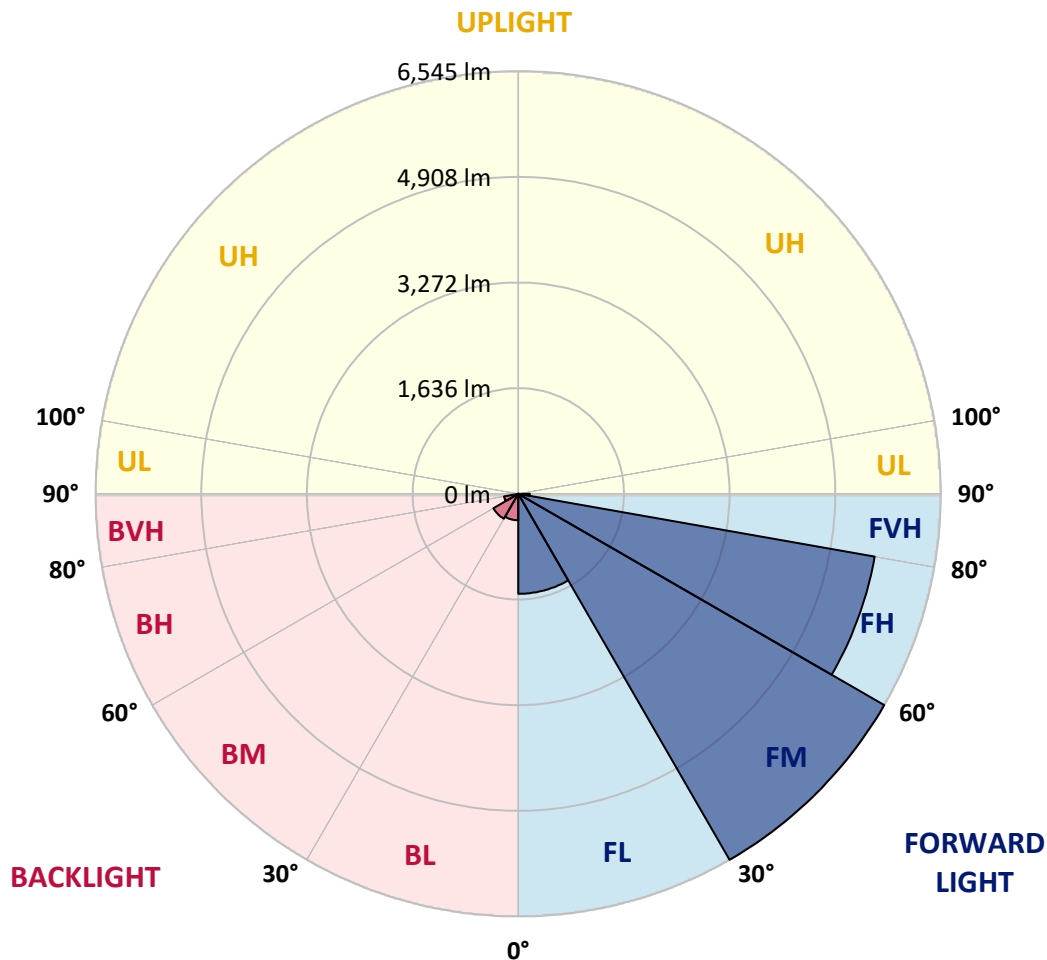
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1548.5 | 10.4 | | | |
| FM (30°-60°) | 6544.6 | 43.8 | | | |
| FH (60°-80°) | 5604.6 | 37.5 | | | G3/7500 |
| FVH (80°-90°) | 180.5 | 1.2 | | | G2/225 |
| BL (0°-30°) | 409.9 | 2.7 | B1/500 | | |
| BM (30°-60°) | 445.1 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 223.2 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 |
| 2.5° | 4601.8 | 4608.8 | 4582.8 | 4561.8 | 4507.9 | 4449.9 | 4373.0 | 4331.9 | 4262.0 | 4141.1 | 4007.1 |
| 5° | 4709.8 | 4718.7 | 4714.8 | 4709.8 | 4688.8 | 4632.9 | 4534.9 | 4498.9 | 4395.9 | 4199.0 | 3957.1 |
| 7.5° | 4469.9 | 4502.9 | 4506.9 | 4545.9 | 4582.8 | 4587.8 | 4550.9 | 4523.9 | 4428.9 | 4198.1 | 3868.2 |
| 10° | 4152.0 | 4174.0 | 4206.0 | 4251.0 | 4339.9 | 4413.9 | 4449.9 | 4445.9 | 4390.9 | 4167.0 | 3764.2 |
| 12.5° | 3831.2 | 3843.2 | 3892.1 | 3969.1 | 4078.1 | 4204.0 | 4300.0 | 4318.9 | 4320.0 | 4130.1 | 3677.3 |
| 15° | 3555.3 | 3550.4 | 3588.3 | 3677.3 | 3830.2 | 3988.1 | 4160.1 | 4190.1 | 4238.0 | 4094.1 | 3596.3 |
| 17.5° | 3319.5 | 3345.4 | 3351.4 | 3449.3 | 3590.3 | 3795.2 | 4014.1 | 4067.1 | 4163.1 | 4063.1 | 3529.4 |
| 20° | 3173.5 | 3187.5 | 3200.5 | 3255.5 | 3382.4 | 3598.3 | 3877.2 | 3950.2 | 4093.1 | 4035.1 | 3454.4 |
| 22.5° | 3130.5 | 3139.5 | 3128.6 | 3145.5 | 3235.5 | 3427.4 | 3728.3 | 3825.2 | 4026.1 | 4009.1 | 3393.4 |
| 25° | 3163.5 | 3172.5 | 3146.5 | 3126.5 | 3157.5 | 3288.4 | 3584.3 | 3702.3 | 3972.2 | 4004.1 | 3347.4 |
| 27.5° | 3243.5 | 3260.5 | 3224.5 | 3188.5 | 3170.5 | 3213.5 | 3471.4 | 3608.3 | 3935.1 | 4028.1 | 3326.4 |
| 30° | 3368.4 | 3378.4 | 3351.4 | 3307.5 | 3266.4 | 3223.5 | 3412.4 | 3543.3 | 3925.2 | 4084.0 | 3324.5 |
| 32.5° | 3504.3 | 3525.4 | 3510.3 | 3481.4 | 3428.4 | 3326.4 | 3429.4 | 3545.3 | 3949.1 | 4165.0 | 3349.4 |
| 35° | 3672.3 | 3696.2 | 3710.2 | 3704.3 | 3636.3 | 3509.3 | 3537.4 | 3635.3 | 4013.1 | 4313.9 | 3417.4 |
| 37.5° | 3837.2 | 3858.2 | 3937.2 | 3964.2 | 3904.2 | 3784.2 | 3747.2 | 3812.2 | 4154.0 | 4508.9 | 3540.3 |
| 40° | 4026.1 | 4054.1 | 4165.0 | 4268.0 | 4239.0 | 4113.1 | 4045.1 | 4099.1 | 4369.9 | 4802.8 | 3773.2 |
| 42.5° | 4207.1 | 4257.0 | 4425.9 | 4607.8 | 4634.8 | 4493.9 | 4448.9 | 4466.9 | 4689.8 | 5225.5 | 4098.1 |
| 45° | 4463.9 | 4510.9 | 4728.8 | 4975.7 | 5102.6 | 4992.6 | 4946.7 | 4943.7 | 5128.6 | 5820.3 | 4624.8 |
| 47.5° | 4834.7 | 4876.7 | 5133.6 | 5377.5 | 5603.4 | 5618.3 | 5531.4 | 5561.4 | 5680.4 | 6516.0 | 5270.5 |
| 50° | 5289.5 | 5388.4 | 5557.4 | 5811.3 | 6113.1 | 6357.0 | 6384.0 | 6344.0 | 6446.0 | 7321.5 | 6046.2 |
| 52.5° | 5950.2 | 5988.1 | 6143.1 | 6352.0 | 6705.8 | 7119.7 | 7440.5 | 7385.5 | 7353.5 | 8089.2 | 6829.8 |
| 55° | 6443.0 | 6494.0 | 6734.8 | 7021.7 | 7540.4 | 8086.2 | 8781.9 | 8800.8 | 8397.0 | 8826.8 | 7596.4 |
| 57.5° | 6294.1 | 6372.0 | 6736.9 | 7313.5 | 8454.1 | 9451.6 | 9969.3 | 9982.3 | 9362.6 | 9543.5 | 8462.0 |
| 60° | 5529.4 | 5566.3 | 6089.2 | 6858.8 | 8532.0 | 10930.8 | 11653.5 | 11548.5 | 10345.2 | 10345.2 | 9226.6 |
| 62.5° | 3921.2 | 3979.1 | 4403.0 | 5535.4 | 7705.3 | 11444.6 | 13670.6 | 13453.7 | 11698.5 | 11111.8 | 9682.4 |
| 65° | 2505.8 | 2449.9 | 2730.7 | 3494.4 | 5740.3 | 10686.0 | 15426.7 | 15439.7 | 12971.9 | 11418.6 | 9433.6 |
| 67° | 1815.2 | 1793.1 | 1874.1 | 2388.9 | 3892.1 | 8982.8 | 15463.7 | 16148.4 | 13703.5 | 11224.7 | 8637.9 |
| 67.5° | 1660.2 | 1677.2 | 1736.1 | 2155.0 | 3536.3 | 8174.1 | 15295.8 | 16106.4 | 13868.5 | 11107.8 | 8350.1 |
| 70° | 1258.4 | 1229.4 | 1293.4 | 1524.3 | 2120.0 | 5156.6 | 13157.8 | 14772.1 | 13663.6 | 9947.3 | 6671.9 |
| 72.5° | 925.6 | 922.5 | 1011.6 | 1246.4 | 1632.2 | 2746.7 | 9877.4 | 11844.4 | 11162.8 | 7574.4 | 4201.0 |
| 75° | 624.7 | 652.7 | 794.6 | 1041.5 | 1479.3 | 1781.2 | 6733.8 | 8593.0 | 7749.4 | 4300.9 | 1717.2 |
| 77.5° | 355.8 | 357.8 | 511.8 | 836.6 | 1328.4 | 1433.4 | 3990.1 | 5474.4 | 4102.1 | 1430.3 | 509.7 |
| 80° | 153.9 | 168.9 | 253.8 | 607.7 | 1101.4 | 1269.4 | 2287.9 | 3008.6 | 1659.3 | 302.9 | 164.9 |
| 82.5° | 57.0 | 66.9 | 112.0 | 373.8 | 803.6 | 1045.5 | 1382.4 | 1436.3 | 562.7 | 107.0 | 103.0 |
| 85° | 0.0 | 2.0 | 41.0 | 174.9 | 418.8 | 466.7 | 923.5 | 851.6 | 248.9 | 51.0 | 66.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 18.0 | 55.0 | 173.9 | 286.9 | 319.9 | 60.0 | 18.0 | 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 |



REPORT NUMBER: P647330

CATALOG NUMBER: GALN-SA3D-835-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 | 3965.1 |
| 2.5° | 3935.1 | 3870.2 | 3707.3 | 3544.3 | 3423.4 | 3322.4 | 3170.5 | 3087.5 | 3043.6 | 2978.6 | 2982.6 |
| 5° | 3836.2 | 3704.3 | 3417.4 | 3120.6 | 2880.7 | 2646.8 | 2366.9 | 2253.9 | 2159.0 | 2105.0 | 2069.0 |
| 7.5° | 3689.3 | 3494.4 | 3069.6 | 2673.7 | 2304.9 | 1896.1 | 1589.3 | 1384.3 | 1246.4 | 1195.4 | 1146.5 |
| 10° | 3528.4 | 3269.5 | 2716.7 | 2168.0 | 1656.2 | 1234.4 | 974.5 | 786.6 | 719.7 | 657.7 | 663.7 |
| 12.5° | 3379.4 | 3064.6 | 2392.8 | 1711.2 | 1160.5 | 784.6 | 611.7 | 534.7 | 512.8 | 505.7 | 505.7 |
| 15° | 3257.4 | 2868.7 | 2045.0 | 1286.4 | 795.6 | 563.8 | 489.8 | 468.8 | 460.8 | 458.8 | 458.8 |
| 17.5° | 3127.5 | 2682.7 | 1731.2 | 950.6 | 578.7 | 471.8 | 446.8 | 432.8 | 429.8 | 427.8 | 427.8 |
| 20° | 3011.6 | 2495.8 | 1433.4 | 707.7 | 467.8 | 424.8 | 408.8 | 399.8 | 396.8 | 394.8 | 395.8 |
| 22.5° | 2901.6 | 2329.9 | 1153.4 | 534.7 | 411.8 | 386.8 | 370.8 | 361.8 | 355.8 | 350.9 | 351.8 |
| 25° | 2803.7 | 2170.0 | 927.5 | 437.8 | 370.8 | 348.8 | 332.9 | 319.9 | 306.9 | 300.8 | 299.9 |
| 27.5° | 2734.7 | 2030.1 | 722.6 | 374.8 | 333.9 | 309.8 | 289.9 | 273.9 | 256.9 | 247.9 | 245.9 |
| 30° | 2677.7 | 1888.1 | 571.7 | 330.8 | 296.8 | 273.9 | 248.9 | 225.9 | 207.9 | 198.9 | 194.9 |
| 32.5° | 2640.7 | 1753.1 | 450.8 | 294.9 | 265.9 | 237.9 | 209.9 | 186.9 | 166.9 | 157.9 | 155.9 |
| 35° | 2634.8 | 1640.2 | 368.8 | 264.9 | 237.9 | 207.9 | 178.9 | 153.9 | 136.9 | 127.9 | 125.9 |
| 37.5° | 2677.7 | 1553.2 | 308.9 | 240.9 | 214.9 | 181.9 | 149.9 | 126.9 | 112.0 | 104.9 | 104.0 |
| 40° | 2792.6 | 1498.3 | 267.9 | 220.9 | 193.9 | 157.9 | 127.9 | 108.0 | 92.9 | 86.0 | 86.0 |
| 42.5° | 3011.6 | 1500.3 | 240.9 | 201.9 | 172.9 | 134.9 | 108.9 | 90.0 | 77.0 | 70.9 | 69.0 |
| 45° | 3353.4 | 1568.3 | 217.9 | 182.9 | 152.9 | 117.0 | 92.9 | 74.0 | 61.0 | 56.0 | 56.0 |
| 47.5° | 3811.2 | 1703.2 | 197.9 | 164.0 | 134.9 | 100.0 | 78.9 | 60.0 | 49.0 | 44.0 | 44.0 |
| 50° | 4409.9 | 1920.1 | 181.0 | 147.9 | 120.0 | 86.0 | 64.0 | 49.0 | 38.0 | 34.0 | 33.0 |
| 52.5° | 5035.6 | 2187.9 | 160.9 | 134.0 | 103.0 | 73.0 | 52.0 | 38.0 | 29.0 | 26.0 | 25.0 |
| 55° | 5726.3 | 2449.9 | 142.0 | 120.0 | 83.9 | 61.0 | 41.0 | 30.0 | 21.0 | 18.0 | 18.0 |
| 57.5° | 6422.9 | 2706.8 | 118.9 | 100.0 | 66.0 | 44.9 | 31.9 | 22.0 | 14.0 | 11.0 | 11.0 |
| 60° | 7012.7 | 2789.7 | 100.9 | 81.0 | 50.0 | 31.9 | 23.0 | 14.0 | 8.0 | 5.0 | 5.0 |
| 62.5° | 7093.7 | 2509.8 | 85.0 | 61.9 | 36.0 | 22.0 | 12.0 | 8.0 | 3.0 | 2.0 | 2.0 |
| 65° | 6653.9 | 2039.0 | 70.9 | 47.0 | 24.0 | 11.0 | 5.0 | 3.0 | 1.0 | 0.0 | 0.0 |
| 67° | 5962.2 | 1653.2 | 57.9 | 35.0 | 17.0 | 7.0 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5785.3 | 1576.3 | 56.0 | 33.0 | 15.0 | 6.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4539.8 | 1180.5 | 40.0 | 20.0 | 9.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2821.7 | 667.7 | 29.0 | 12.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1066.5 | 233.9 | 20.0 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 331.8 | 88.9 | 12.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 112.0 | 34.0 | 8.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 69.0 | 14.0 | 5.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 43.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.0 | 2.0 | 1.0 | 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 |

(END OF REPORT)