

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: P383028

Luminaire Tested: **GLEON-SA3D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17909.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

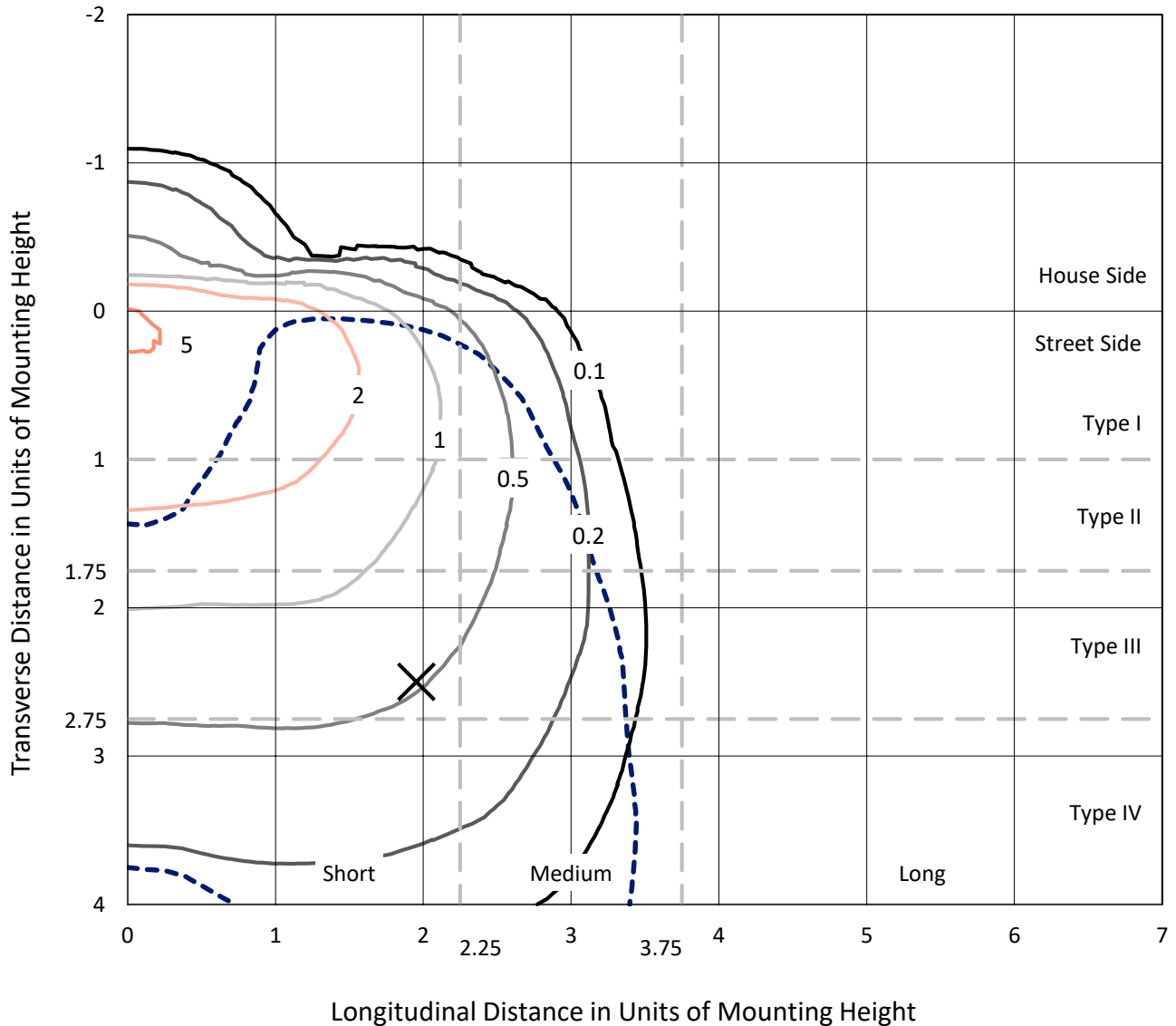
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

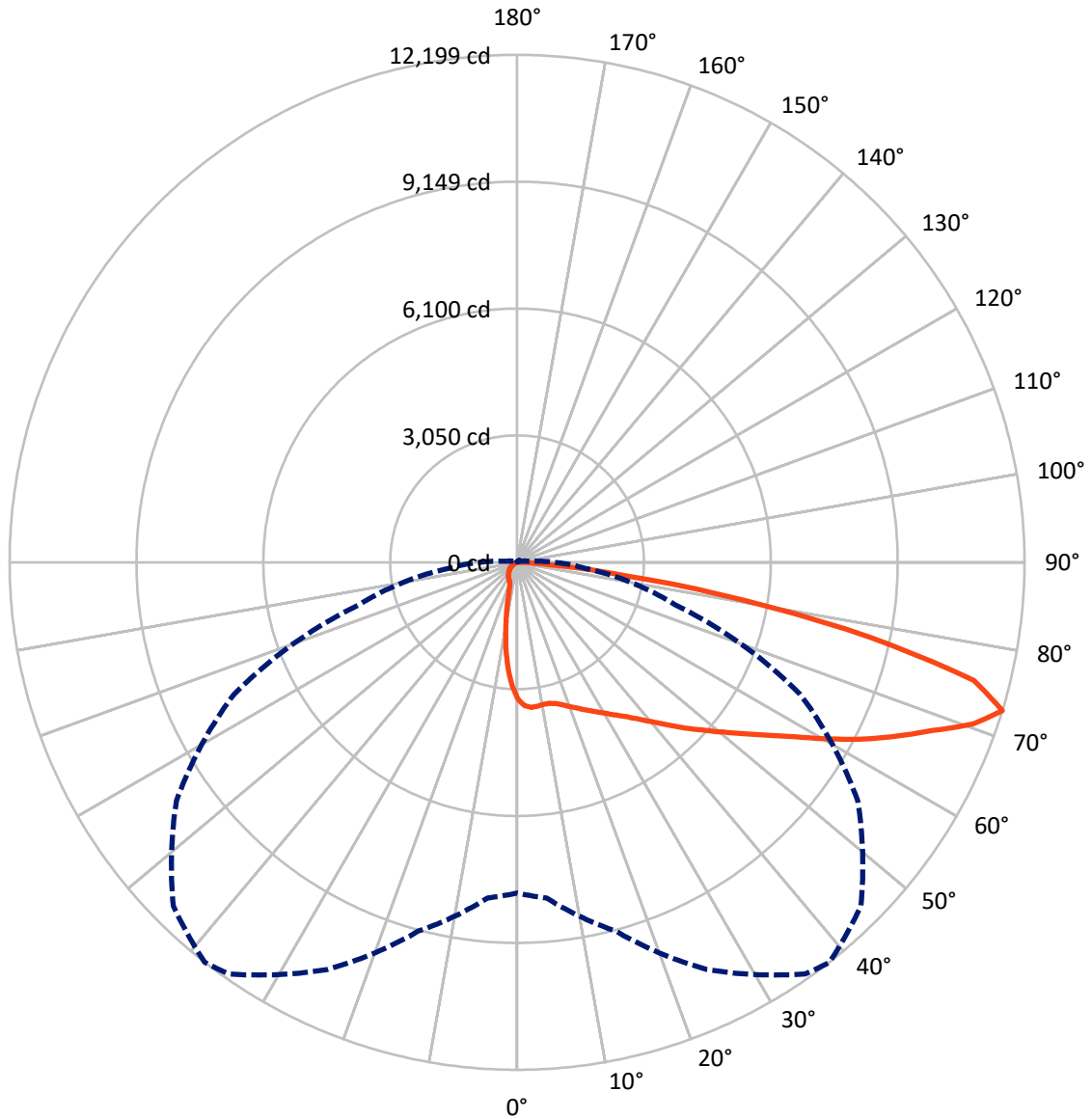
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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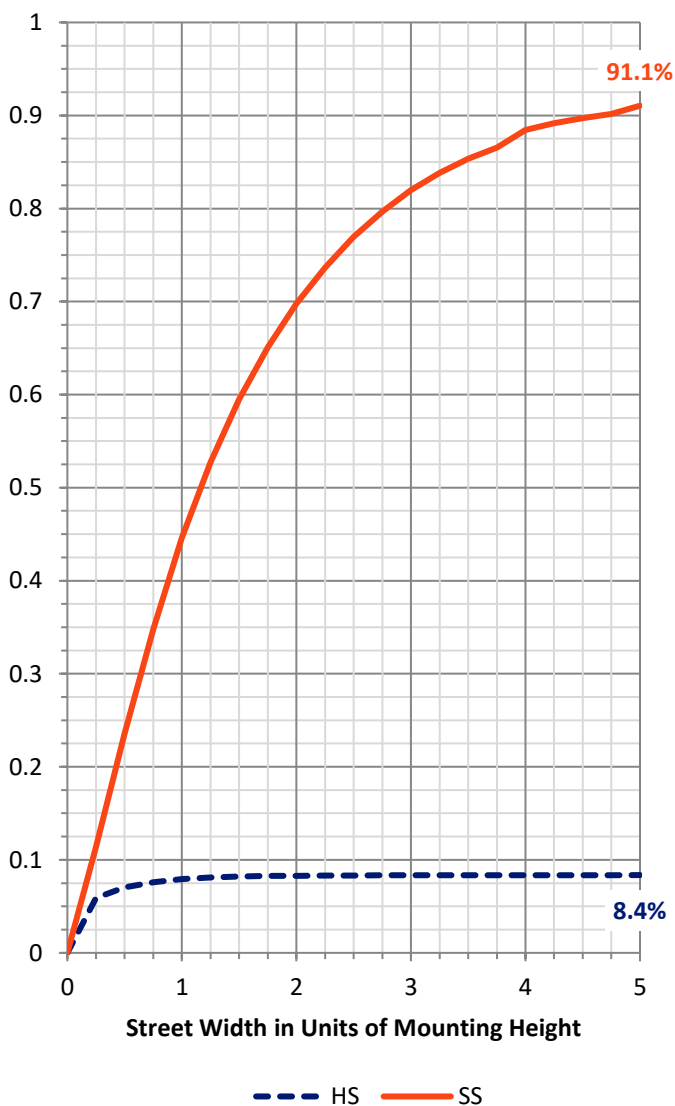
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1507.2 | 0.0 | 1507.2 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 16402.7 | 0.0 | 16402.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 17909.9 | 0.0 | 17909.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 280.7 | 1.6 |
| 10°-20° | 686.3 | 3.8 |
| 20°-30° | 1091.6 | 6.1 |
| 30°-40° | 1641.1 | 9.2 |
| 40°-50° | 2503.6 | 14.0 |
| 50°-60° | 3538.4 | 19.8 |
| 60°-70° | 4438.3 | 24.8 |
| 70°-80° | 3318.6 | 18.5 |
| 80°-90° | 411.5 | 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° | 17909.9 | 100.0 |
| 0°-180° | 17909.9 | 100.0 |

Coefficient of Utilization

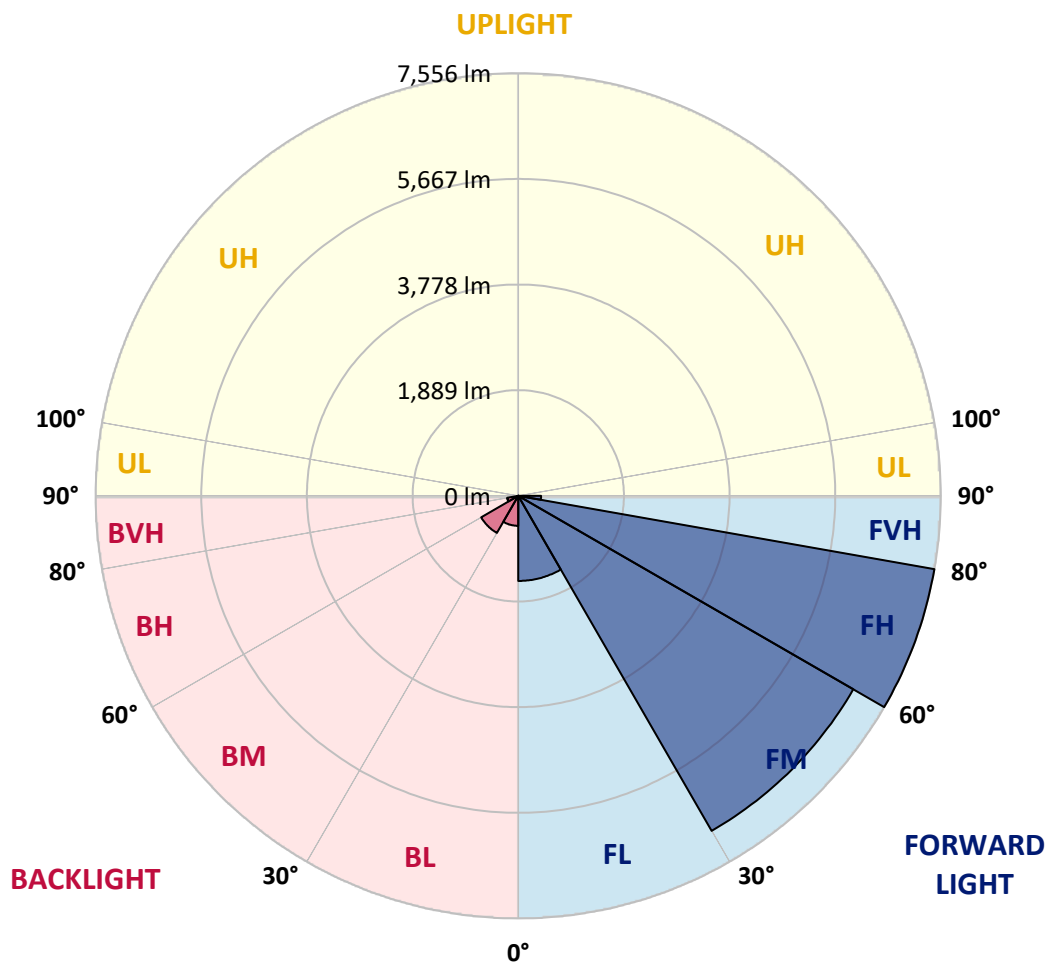


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1521.9 | 8.5 | | | |
| FM (30°-60°) | 6917.6 | 38.6 | | | |
| FH (60°-80°) | 7555.6 | 42.2 | | | G4/12000 |
| FVH (80°-90°) | 407.7 | 2.3 | | | G3/500 |
| BL (0°-30°) | 536.7 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 765.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 201.3 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 |
| 2.5° | 3495.9 | 3496.7 | 3488.5 | 3475.0 | 3458.0 | 3449.1 | 3434.2 | 3410.4 | 3385.1 | 3339.7 | 3290.6 |
| 5° | 3567.3 | 3567.3 | 3556.9 | 3539.0 | 3511.5 | 3503.4 | 3475.0 | 3437.1 | 3385.1 | 3311.5 | 3228.8 |
| 7.5° | 3559.8 | 3561.3 | 3547.2 | 3528.6 | 3501.1 | 3493.7 | 3459.5 | 3417.0 | 3352.4 | 3263.1 | 3157.5 |
| 10° | 3521.2 | 3524.9 | 3513.7 | 3504.9 | 3479.5 | 3471.3 | 3439.4 | 3397.0 | 3332.2 | 3237.0 | 3115.8 |
| 12.5° | 3481.8 | 3485.5 | 3489.2 | 3497.4 | 3481.8 | 3478.8 | 3453.5 | 3417.8 | 3356.1 | 3257.2 | 3120.3 |
| 15° | 3456.5 | 3463.9 | 3490.7 | 3522.6 | 3526.4 | 3523.4 | 3507.1 | 3473.6 | 3411.1 | 3308.5 | 3152.3 |
| 17.5° | 3456.5 | 3468.3 | 3524.1 | 3585.2 | 3606.8 | 3608.9 | 3594.8 | 3548.0 | 3473.6 | 3363.5 | 3182.0 |
| 20° | 3485.5 | 3501.9 | 3588.9 | 3675.1 | 3710.8 | 3710.8 | 3683.3 | 3617.9 | 3530.8 | 3413.4 | 3202.1 |
| 22.5° | 3559.8 | 3581.4 | 3690.8 | 3790.5 | 3828.4 | 3820.2 | 3783.0 | 3687.8 | 3590.4 | 3469.8 | 3227.3 |
| 25° | 3706.3 | 3722.7 | 3836.6 | 3937.0 | 3960.0 | 3941.5 | 3894.6 | 3772.6 | 3666.2 | 3546.5 | 3273.5 |
| 27.5° | 3895.4 | 3897.6 | 4015.1 | 4099.8 | 4085.8 | 4073.1 | 4014.3 | 3879.0 | 3775.6 | 3655.8 | 3353.1 |
| 30° | 4102.8 | 4102.8 | 4206.2 | 4271.0 | 4227.8 | 4217.4 | 4158.6 | 4007.6 | 3915.4 | 3804.5 | 3466.1 |
| 32.5° | 4303.7 | 4312.6 | 4396.6 | 4437.5 | 4389.2 | 4378.8 | 4321.5 | 4170.5 | 4101.3 | 4031.5 | 3642.4 |
| 35° | 4497.8 | 4504.5 | 4584.1 | 4606.4 | 4560.3 | 4563.3 | 4522.4 | 4394.4 | 4368.4 | 4359.5 | 3907.9 |
| 37.5° | 4686.0 | 4687.5 | 4768.6 | 4782.7 | 4759.6 | 4784.9 | 4788.6 | 4675.5 | 4723.9 | 4796.1 | 4282.1 |
| 40° | 4857.8 | 4859.3 | 4939.6 | 4976.0 | 5015.5 | 5048.2 | 5077.2 | 5016.9 | 5176.9 | 5344.3 | 4727.6 |
| 42.5° | 4995.4 | 5011.1 | 5112.9 | 5182.1 | 5286.3 | 5348.8 | 5427.6 | 5424.6 | 5716.2 | 5967.6 | 5266.1 |
| 45° | 5116.6 | 5143.4 | 5285.5 | 5406.7 | 5585.3 | 5685.0 | 5808.4 | 5905.1 | 6323.1 | 6661.5 | 5811.4 |
| 47.5° | 5276.6 | 5301.9 | 5464.0 | 5662.6 | 5900.6 | 6031.5 | 6236.1 | 6445.1 | 6990.3 | 7342.8 | 6343.9 |
| 50° | 5501.9 | 5490.8 | 5650.7 | 5935.5 | 6241.3 | 6413.1 | 6704.7 | 7017.8 | 7652.3 | 7936.4 | 6657.1 |
| 52.5° | 5742.2 | 5737.8 | 5856.0 | 6232.3 | 6643.0 | 6843.8 | 7229.1 | 7609.9 | 8285.3 | 8345.5 | 6800.7 |
| 55° | 6039.7 | 6007.7 | 6107.4 | 6570.8 | 7119.7 | 7335.5 | 7789.1 | 8196.0 | 8789.5 | 8576.1 | 6872.8 |
| 57.5° | 6351.4 | 6298.6 | 6393.8 | 6947.9 | 7657.5 | 7912.7 | 8409.5 | 8767.3 | 9125.1 | 8733.8 | 6872.0 |
| 60° | 6673.4 | 6610.9 | 6724.0 | 7419.5 | 8325.4 | 8620.7 | 9081.8 | 9153.3 | 9438.2 | 8813.4 | 6821.4 |
| 62.5° | 6942.7 | 6905.5 | 7073.6 | 7923.7 | 9071.5 | 9361.6 | 9589.9 | 9504.4 | 9702.3 | 8875.1 | 6703.2 |
| 65° | 7227.6 | 7229.8 | 7501.3 | 8512.1 | 9864.3 | 10060.0 | 10079.3 | 9959.5 | 9923.1 | 8862.5 | 6303.0 |
| 67.5° | 7612.9 | 7648.6 | 8101.6 | 9311.0 | 10635.7 | 10786.7 | 10785.2 | 10452.7 | 10084.6 | 8359.6 | 5415.6 |
| 70° | 8020.4 | 8104.6 | 8793.3 | 10225.1 | 11477.7 | 11630.9 | 11552.0 | 10766.6 | 9495.5 | 6759.7 | 3832.9 |
| 72.5° | 7952.1 | 8097.9 | 9177.8 | 10801.6 | 12082.4 | 12199.2 | 11686.7 | 9995.3 | 7505.0 | 3928.8 | 1631.9 |
| 75° | 6134.9 | 6303.8 | 8415.4 | 10230.3 | 11448.0 | 11343.1 | 10041.4 | 7778.0 | 4101.3 | 1096.3 | 367.4 |
| 77.5° | 3240.8 | 3330.7 | 5559.2 | 7793.6 | 8926.5 | 8707.0 | 7073.6 | 4314.8 | 1250.3 | 271.5 | 165.2 |
| 80° | 1697.4 | 1718.2 | 2422.6 | 4422.0 | 5509.4 | 5510.8 | 4192.1 | 1895.2 | 515.4 | 139.1 | 110.9 |
| 82.5° | 908.9 | 926.8 | 1280.1 | 2043.3 | 2886.7 | 2616.7 | 1605.1 | 1042.8 | 299.8 | 78.8 | 106.4 |
| 85° | 218.6 | 222.4 | 726.0 | 933.5 | 1135.1 | 810.7 | 476.8 | 875.5 | 81.0 | 46.1 | 86.3 |
| 87.5° | 84.0 | 85.5 | 269.2 | 403.9 | 289.3 | 187.4 | 223.1 | 326.5 | 10.4 | 17.9 | 13.4 |
| 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: GLEON-SA3D-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 | 3293.6 |
| 2.5° | 3260.9 | 3241.5 | 3193.9 | 3133.6 | 3080.1 | 3041.4 | 2983.4 | 2945.5 | 2920.2 | 2919.5 | 2909.8 |
| 5° | 3178.3 | 3138.8 | 3036.2 | 2914.3 | 2803.4 | 2703.7 | 2586.3 | 2493.3 | 2424.1 | 2412.9 | 2389.1 |
| 7.5° | 3089.8 | 3025.1 | 2867.4 | 2677.0 | 2491.1 | 2302.0 | 2082.7 | 1946.6 | 1829.7 | 1773.9 | 1768.0 |
| 10° | 3035.4 | 2944.7 | 2720.9 | 2445.6 | 2154.1 | 1846.9 | 1559.8 | 1361.2 | 1217.6 | 1176.7 | 1146.2 |
| 12.5° | 3024.4 | 2904.6 | 2607.8 | 2228.4 | 1812.0 | 1405.8 | 1088.2 | 877.0 | 762.4 | 726.0 | 716.3 |
| 15° | 3035.4 | 2885.9 | 2512.6 | 2013.4 | 1465.3 | 997.4 | 730.4 | 607.6 | 564.5 | 554.2 | 553.4 |
| 17.5° | 3042.2 | 2863.7 | 2404.7 | 1774.7 | 1129.1 | 712.5 | 559.3 | 523.6 | 516.9 | 516.2 | 517.7 |
| 20° | 3041.4 | 2829.5 | 2276.1 | 1508.5 | 839.8 | 560.0 | 505.8 | 498.4 | 496.9 | 497.6 | 496.9 |
| 22.5° | 3036.2 | 2789.2 | 2134.7 | 1234.0 | 634.5 | 500.6 | 482.7 | 478.3 | 477.5 | 477.5 | 477.5 |
| 25° | 3045.9 | 2757.3 | 1979.3 | 971.4 | 522.9 | 473.0 | 461.9 | 458.2 | 457.5 | 457.5 | 456.0 |
| 27.5° | 3080.8 | 2739.4 | 1809.0 | 747.6 | 472.3 | 448.5 | 439.6 | 438.9 | 436.6 | 435.9 | 437.4 |
| 30° | 3137.4 | 2739.4 | 1622.2 | 581.7 | 441.8 | 423.2 | 416.5 | 415.0 | 414.3 | 413.5 | 414.3 |
| 32.5° | 3237.0 | 2760.3 | 1418.5 | 483.5 | 412.8 | 395.0 | 390.5 | 392.7 | 390.5 | 390.5 | 390.5 |
| 35° | 3417.0 | 2822.8 | 1205.0 | 421.7 | 382.3 | 367.4 | 363.0 | 365.9 | 364.4 | 364.4 | 363.7 |
| 37.5° | 3679.6 | 2938.8 | 990.0 | 384.5 | 355.6 | 339.9 | 334.0 | 338.4 | 336.9 | 336.9 | 336.2 |
| 40° | 3999.4 | 3107.6 | 785.5 | 356.3 | 329.5 | 313.2 | 308.0 | 310.2 | 306.5 | 306.5 | 308.0 |
| 42.5° | 4394.4 | 3321.8 | 606.9 | 328.7 | 303.5 | 287.8 | 284.9 | 282.6 | 275.9 | 272.2 | 272.9 |
| 45° | 4833.2 | 3545.0 | 473.0 | 302.0 | 278.9 | 266.3 | 261.9 | 255.9 | 244.7 | 237.3 | 238.0 |
| 47.5° | 5225.2 | 3716.8 | 384.5 | 275.9 | 256.6 | 247.0 | 240.2 | 229.1 | 212.8 | 203.8 | 204.6 |
| 50° | 5431.3 | 3742.9 | 327.3 | 249.9 | 235.8 | 226.1 | 216.5 | 199.4 | 180.0 | 170.3 | 169.5 |
| 52.5° | 5484.1 | 3620.8 | 284.9 | 226.1 | 215.0 | 203.8 | 191.2 | 168.1 | 146.5 | 136.1 | 134.6 |
| 55° | 5503.4 | 3434.9 | 247.0 | 203.8 | 192.6 | 180.0 | 163.7 | 137.6 | 117.6 | 107.1 | 106.4 |
| 57.5° | 5439.5 | 3157.5 | 217.2 | 183.7 | 170.3 | 154.7 | 134.6 | 110.1 | 90.7 | 82.5 | 82.5 |
| 60° | 5297.4 | 2781.9 | 194.1 | 162.2 | 147.3 | 129.4 | 108.6 | 85.5 | 67.7 | 61.0 | 61.0 |
| 62.5° | 5014.0 | 2295.4 | 172.5 | 139.8 | 125.7 | 107.1 | 87.8 | 64.7 | 47.6 | 43.9 | 44.6 |
| 65° | 4479.2 | 1741.2 | 151.0 | 119.8 | 107.1 | 88.5 | 68.5 | 46.1 | 32.0 | 32.0 | 33.4 |
| 67.5° | 3652.9 | 1209.4 | 128.6 | 101.9 | 92.2 | 72.2 | 52.1 | 32.0 | 22.4 | 25.2 | 28.2 |
| 70° | 2418.1 | 678.4 | 110.1 | 84.0 | 78.8 | 57.3 | 38.7 | 21.6 | 17.9 | 23.8 | 29.0 |
| 72.5° | 912.6 | 264.1 | 92.2 | 67.7 | 68.5 | 43.9 | 27.5 | 16.4 | 16.4 | 26.0 | 34.2 |
| 75° | 254.4 | 129.4 | 66.2 | 49.8 | 53.6 | 32.0 | 20.1 | 14.2 | 15.6 | 29.7 | 40.1 |
| 77.5° | 149.5 | 95.2 | 43.1 | 29.0 | 36.4 | 22.4 | 13.4 | 11.2 | 13.4 | 25.2 | 38.7 |
| 80° | 120.5 | 50.6 | 25.2 | 14.9 | 20.1 | 12.7 | 8.9 | 6.7 | 3.7 | 9.7 | 20.1 |
| 82.5° | 120.5 | 30.5 | 11.9 | 10.4 | 10.4 | 6.7 | 4.5 | 3.0 | 0.7 | 0.0 | 5.2 |
| 85° | 81.0 | 12.7 | 7.5 | 6.7 | 5.2 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.4 | 5.2 | 3.0 | 1.5 | 0.7 | 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)