

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: P383506

Luminaire Tested: **GLEON-SA8A-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25793.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

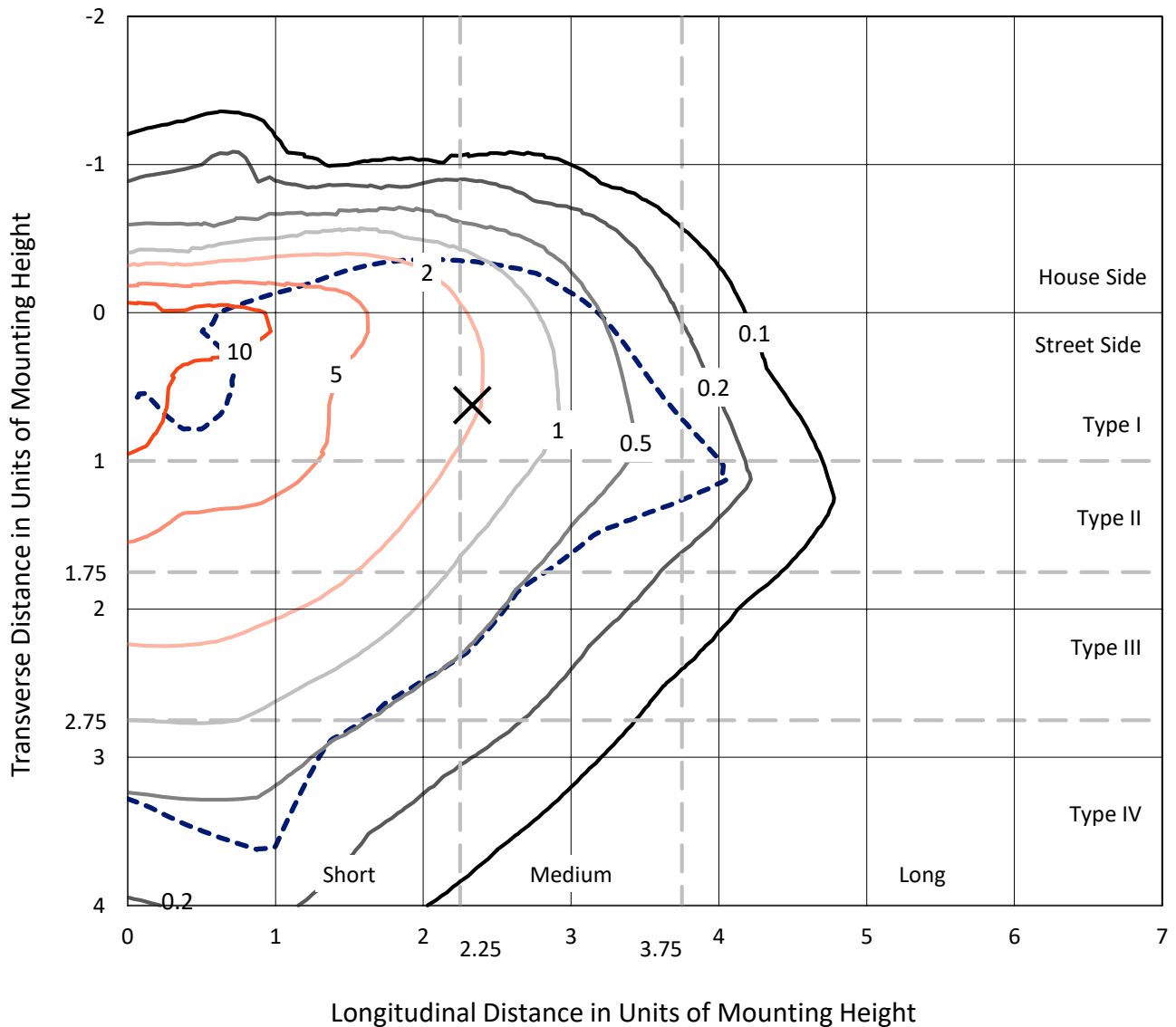
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383506
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Iso-Footcandle Lines of Horizontal Illumination

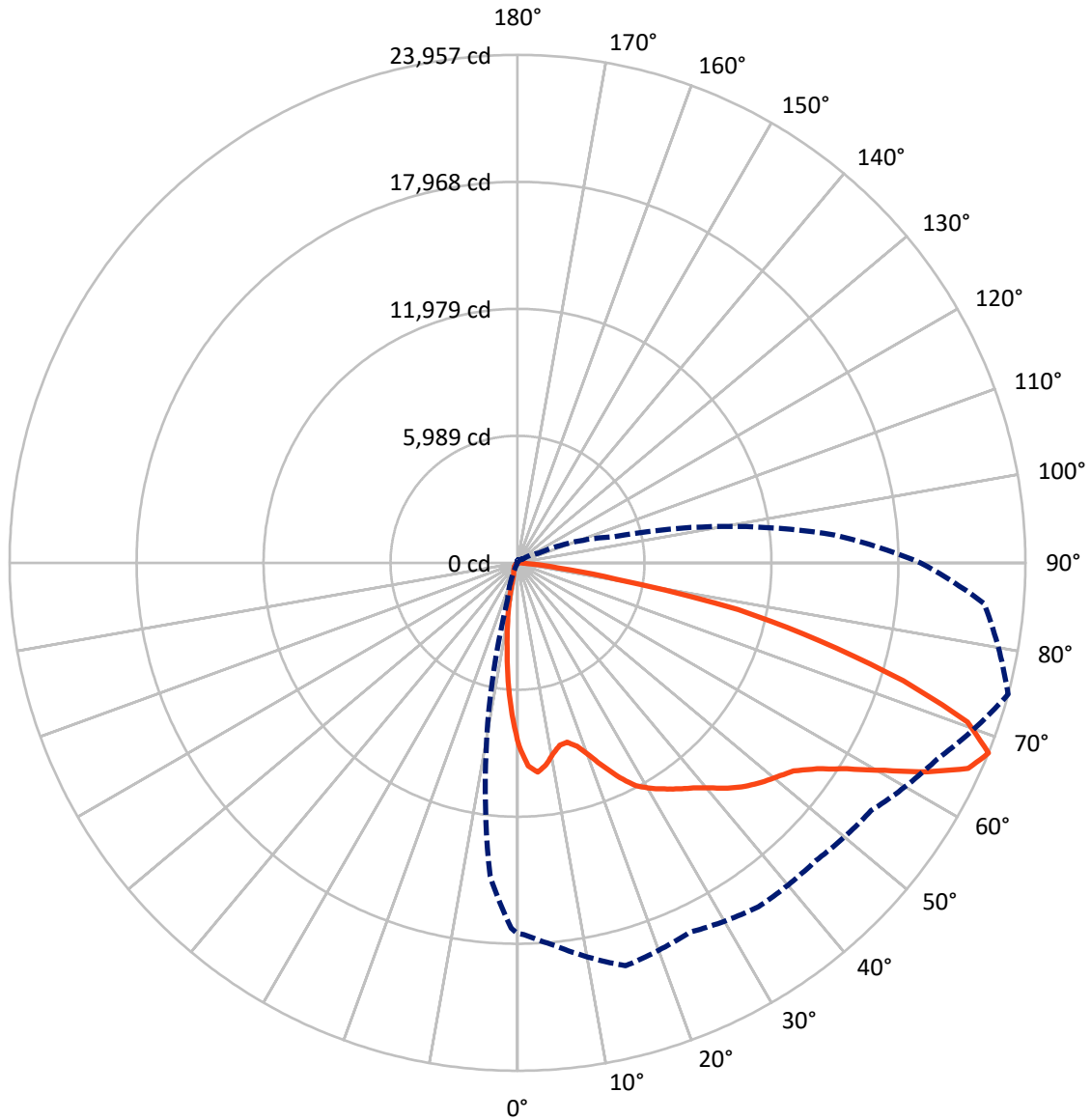
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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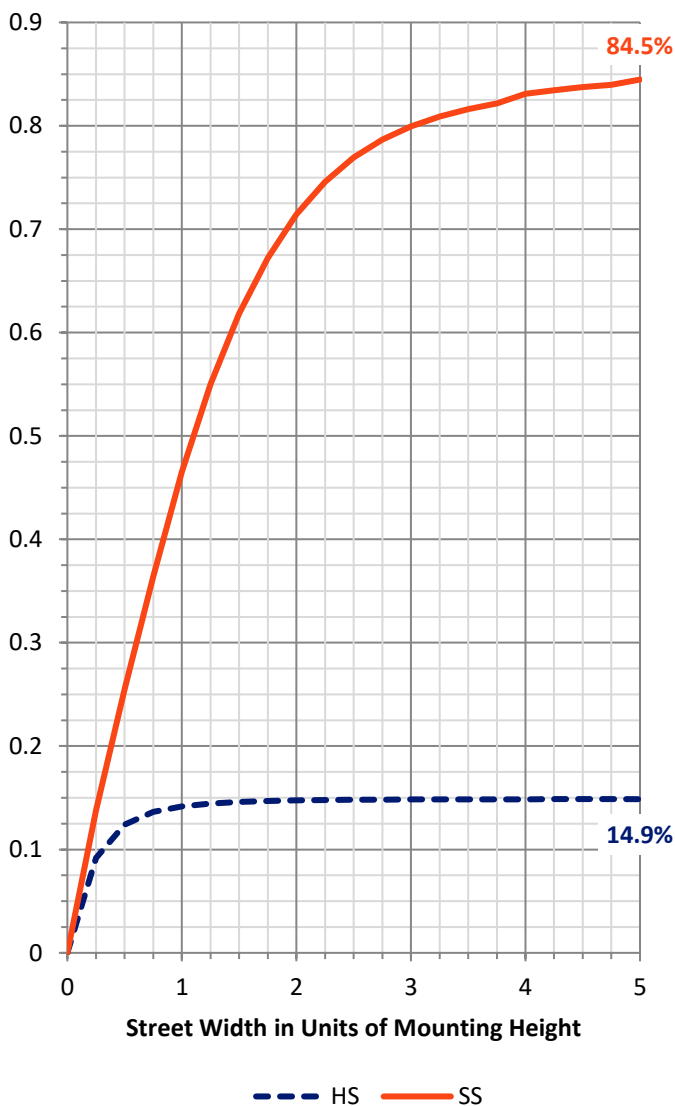
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3870.6 | 0.0 | 3870.6 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 21923.0 | 0.0 | 21923.0 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 25793.6 | 0.0 | 25793.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 656.4 | 2.5 |
| 10°-20° | 1292.4 | 5.0 |
| 20°-30° | 1828.4 | 7.1 |
| 30°-40° | 2688.3 | 10.4 |
| 40°-50° | 3864.0 | 15.0 |
| 50°-60° | 5439.5 | 21.1 |
| 60°-70° | 6352.9 | 24.6 |
| 70°-80° | 3241.0 | 12.6 |
| 80°-90° | 430.5 | 1.7 |
| 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° | 25793.6 | 100.0 |
| 0°-180° | 25793.6 | 100.0 |

Coefficient of Utilization

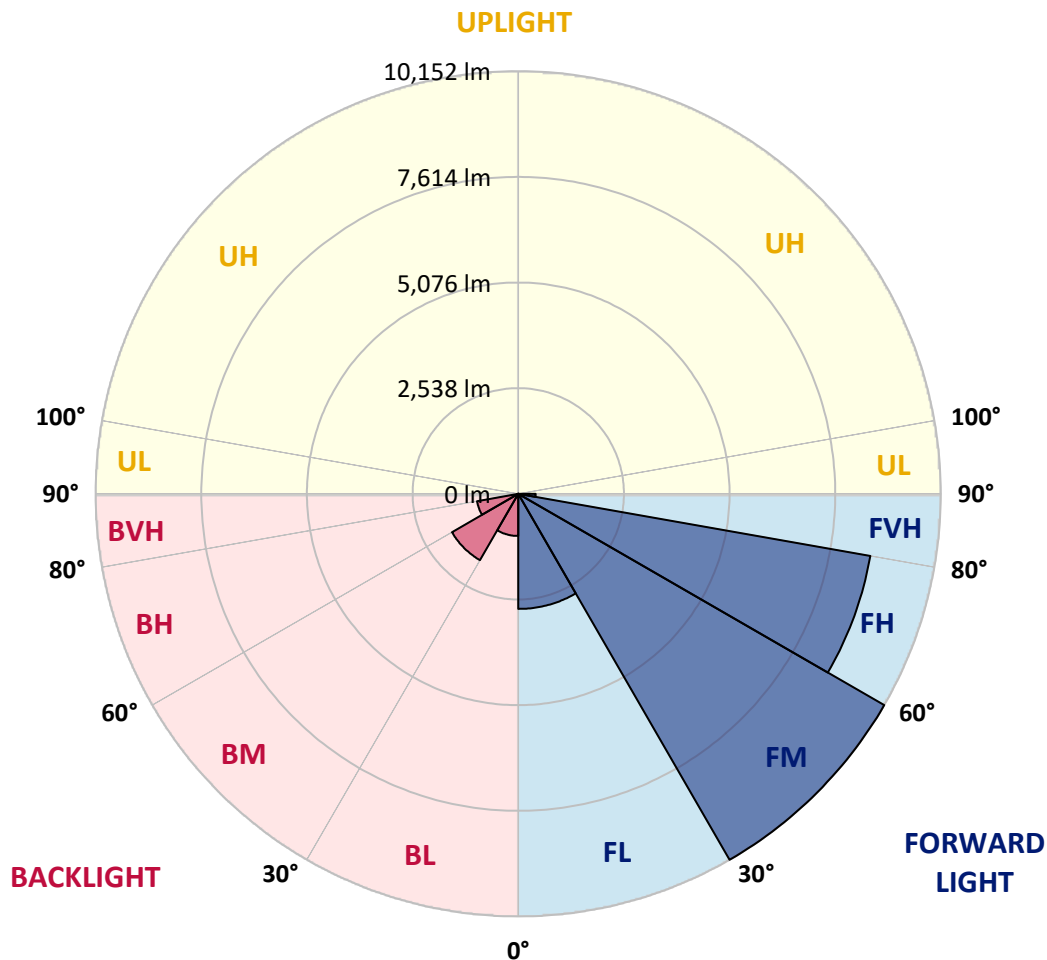


REPORT NUMBER: P383506
 CATALOG NUMBER: GLEON-SA8A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2765.1 | 10.7 | | | |
| FM (30°-60°) | 10151.9 | 39.4 | | | |
| FH (60°-80°) | 8588.5 | 33.3 | | | G4/12000 |
| FVH (80°-90°) | 417.5 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1012.2 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 1840.0 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 1005.4 | 3.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 13.1 | 0.1 | | | 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 Medium





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CATALOG NUMBER: GLEON-SA8A-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 |
| 2.5° | 9380.3 | 9395.0 | 9470.8 | 9646.7 | 9838.5 | 9853.2 | 9982.7 | 9849.5 | 9804.4 | 9589.3 | 9366.9 |
| 5° | 9451.2 | 9507.4 | 9767.6 | 10284.6 | 10732.9 | 10877.1 | 10979.8 | 10718.3 | 10443.4 | 9918.0 | 9357.1 |
| 7.5° | 8880.6 | 8974.7 | 9384.0 | 10354.2 | 11155.7 | 11510.1 | 11577.3 | 11168.0 | 10494.7 | 9629.6 | 8786.5 |
| 10° | 8149.9 | 8257.4 | 8751.1 | 9943.6 | 11044.5 | 11651.8 | 11744.7 | 11208.3 | 10240.5 | 9162.8 | 8169.5 |
| 12.5° | 7558.5 | 7684.3 | 8189.0 | 9481.8 | 10662.1 | 11334.1 | 11517.4 | 11072.7 | 10020.6 | 8831.7 | 7747.9 |
| 15° | 7286.0 | 7430.2 | 7960.5 | 9183.6 | 10238.1 | 10767.2 | 10918.7 | 10726.9 | 9898.4 | 8779.2 | 7650.1 |
| 17.5° | 7442.4 | 7598.8 | 8146.2 | 9209.3 | 9839.8 | 10065.8 | 10188.0 | 10266.2 | 9898.4 | 9095.6 | 7936.0 |
| 20° | 8084.0 | 8252.6 | 8831.7 | 9469.6 | 9509.9 | 9425.6 | 9556.3 | 9831.2 | 10013.3 | 9696.8 | 8622.8 |
| 22.5° | 8971.0 | 9168.9 | 9822.6 | 9915.5 | 9348.5 | 9029.7 | 9046.7 | 9478.1 | 10222.2 | 10459.2 | 9575.8 |
| 25° | 10052.3 | 10294.3 | 10959.0 | 10580.2 | 9415.8 | 8793.8 | 8787.8 | 9187.3 | 10426.3 | 11222.9 | 10637.6 |
| 27.5° | 11126.4 | 11392.7 | 11976.8 | 11391.5 | 9693.1 | 8751.1 | 8738.8 | 9099.3 | 10625.4 | 11902.3 | 11797.2 |
| 30° | 12026.9 | 12286.0 | 12789.4 | 11979.2 | 9992.5 | 8851.3 | 8792.6 | 9193.4 | 10743.9 | 12343.4 | 12642.8 |
| 32.5° | 12760.1 | 12967.8 | 13374.6 | 12383.7 | 10312.6 | 9045.5 | 8918.5 | 9445.1 | 10945.6 | 12716.1 | 13419.9 |
| 35° | 13566.5 | 13785.2 | 13947.7 | 12768.6 | 10671.9 | 9325.4 | 9143.3 | 9844.7 | 11255.9 | 13094.9 | 14271.5 |
| 37.5° | 14486.6 | 14704.0 | 14684.5 | 13120.5 | 11127.6 | 9788.4 | 9672.4 | 10477.6 | 11738.5 | 13470.0 | 15222.1 |
| 40° | 15387.1 | 15609.5 | 15450.6 | 13505.4 | 11662.8 | 10552.1 | 10466.6 | 11428.2 | 12384.9 | 13950.1 | 16336.5 |
| 42.5° | 16230.2 | 16470.9 | 16131.2 | 13869.5 | 12300.6 | 11515.0 | 11661.6 | 12652.6 | 13193.8 | 14541.6 | 17296.9 |
| 45° | 16909.5 | 17155.1 | 16701.8 | 14223.9 | 12972.6 | 12683.0 | 13124.2 | 14008.8 | 14166.4 | 15041.3 | 17945.7 |
| 47.5° | 17403.2 | 17635.3 | 17097.7 | 14578.2 | 13832.8 | 14111.5 | 14880.0 | 15431.1 | 15045.0 | 15475.1 | 18406.4 |
| 50° | 17718.4 | 17899.2 | 17213.8 | 15021.8 | 14961.9 | 15778.1 | 16709.2 | 16977.9 | 15872.2 | 15866.0 | 18965.9 |
| 52.5° | 17918.8 | 18000.7 | 17299.3 | 15484.8 | 16139.7 | 17592.6 | 18500.4 | 18584.7 | 16723.8 | 16296.1 | 19719.8 |
| 55° | 18609.2 | 18675.1 | 17905.4 | 16045.6 | 17113.6 | 19182.2 | 20120.6 | 20042.4 | 17687.9 | 17138.1 | 20609.4 |
| 57.5° | 19787.0 | 19856.7 | 19157.7 | 16852.1 | 17901.7 | 20164.6 | 21294.8 | 21435.4 | 18818.1 | 18320.8 | 21562.4 |
| 60° | 20378.4 | 20507.9 | 20258.6 | 17873.6 | 18665.3 | 20792.6 | 22095.2 | 22543.6 | 20230.6 | 19879.9 | 22486.2 |
| 62.5° | 19842.1 | 20030.2 | 20391.9 | 19006.3 | 19424.2 | 21138.4 | 22344.5 | 22940.7 | 21677.3 | 21696.9 | 23055.5 |
| 65° | 18771.7 | 18922.0 | 19535.3 | 19627.0 | 19864.0 | 21095.6 | 21728.6 | 22385.9 | 22563.1 | 23365.9 | 23025.0 |
| 67.5° | 17478.9 | 17535.2 | 18055.6 | 19675.9 | 19226.2 | 19810.3 | 19878.7 | 20365.0 | 21863.0 | 23957.3 | 22100.0 |
| 70° | 15618.0 | 15648.5 | 16103.1 | 18039.8 | 16522.2 | 16650.5 | 16549.0 | 16648.1 | 18796.1 | 22516.7 | 19765.0 |
| 72.5° | 12569.5 | 12646.4 | 13292.8 | 14981.4 | 12036.7 | 11666.4 | 12463.1 | 12419.1 | 14475.6 | 19023.4 | 14679.6 |
| 75° | 9254.5 | 9387.7 | 10363.9 | 12067.3 | 8448.0 | 7641.6 | 8223.2 | 8378.4 | 10290.6 | 14715.0 | 9179.9 |
| 77.5° | 6479.6 | 6578.6 | 7524.3 | 8870.8 | 6114.3 | 5464.2 | 5254.0 | 5438.6 | 6792.4 | 10645.0 | 4624.8 |
| 80° | 3732.8 | 3769.5 | 4373.1 | 5122.1 | 4120.1 | 4714.0 | 4270.5 | 4397.6 | 4070.0 | 4736.0 | 1989.2 |
| 82.5° | 2442.5 | 2448.7 | 2684.4 | 3048.6 | 2565.9 | 2981.4 | 2206.7 | 2821.3 | 2503.6 | 1902.5 | 647.6 |
| 85° | 1319.6 | 1327.0 | 1556.7 | 2164.0 | 1452.8 | 821.1 | 482.6 | 991.0 | 1548.1 | 436.2 | 177.2 |
| 87.5° | 145.4 | 133.2 | 469.2 | 786.9 | 403.2 | 74.5 | 25.6 | 111.2 | 248.1 | 28.1 | 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 |



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CATALOG NUMBER: GLEON-SA8A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 |
| 2.5° | 9253.2 | 9151.8 | 8898.9 | 8631.3 | 8416.3 | 8214.7 | 8011.9 | 7763.8 | 7572.0 | 7532.9 | 7469.3 |
| 5° | 9055.3 | 8734.0 | 8203.7 | 7670.9 | 7242.0 | 6700.8 | 6357.4 | 6089.8 | 5828.3 | 5812.5 | 5759.9 |
| 7.5° | 8363.7 | 7941.0 | 7194.4 | 6457.6 | 5854.0 | 5338.3 | 4817.9 | 4469.7 | 4195.9 | 4099.4 | 4042.0 |
| 10° | 7699.1 | 7223.7 | 6291.4 | 5450.8 | 4912.0 | 4456.2 | 4089.6 | 3725.5 | 3395.6 | 3168.3 | 3065.7 |
| 12.5° | 7234.7 | 6709.3 | 5681.7 | 4957.1 | 4571.0 | 4138.5 | 3691.3 | 3236.8 | 2856.8 | 2583.1 | 2415.7 |
| 15° | 7055.1 | 6494.3 | 5477.7 | 4761.6 | 4285.1 | 3737.7 | 3165.9 | 2646.6 | 2225.0 | 1977.0 | 1826.7 |
| 17.5° | 7269.0 | 6616.4 | 5461.8 | 4523.4 | 3857.4 | 3176.9 | 2545.2 | 1931.8 | 1534.6 | 1346.6 | 1250.0 |
| 20° | 7811.5 | 7005.1 | 5455.7 | 4231.4 | 3349.2 | 2512.2 | 1724.1 | 1270.7 | 1030.0 | 924.9 | 879.8 |
| 22.5° | 8578.8 | 7501.1 | 5504.5 | 3943.0 | 2820.1 | 1794.9 | 1190.1 | 933.5 | 810.1 | 753.9 | 728.3 |
| 25° | 9566.1 | 8197.5 | 5642.7 | 3681.5 | 2322.8 | 1339.2 | 927.4 | 782.0 | 695.2 | 651.2 | 632.9 |
| 27.5° | 10618.1 | 8999.1 | 5857.7 | 3454.3 | 1918.3 | 1067.9 | 794.2 | 669.6 | 607.3 | 576.7 | 559.6 |
| 30° | 11485.6 | 9927.7 | 6075.2 | 3201.4 | 1625.1 | 931.1 | 727.0 | 610.9 | 538.8 | 519.3 | 503.4 |
| 32.5° | 12244.4 | 10630.4 | 6229.1 | 2972.8 | 1433.3 | 827.2 | 657.4 | 546.2 | 497.3 | 459.4 | 442.3 |
| 35° | 13030.1 | 11215.6 | 6224.2 | 2812.7 | 1301.3 | 749.0 | 598.7 | 488.8 | 430.1 | 386.1 | 372.7 |
| 37.5° | 13880.5 | 11876.6 | 6117.9 | 2675.9 | 1243.9 | 686.7 | 565.7 | 458.2 | 399.5 | 355.6 | 338.4 |
| 40° | 14876.3 | 12570.7 | 6009.2 | 2547.6 | 1228.0 | 636.6 | 542.5 | 433.7 | 371.4 | 328.6 | 311.6 |
| 42.5° | 15846.5 | 13196.2 | 5913.8 | 2452.3 | 1159.6 | 635.4 | 521.8 | 415.5 | 349.4 | 307.9 | 288.4 |
| 45° | 16622.3 | 13779.1 | 5895.6 | 2394.9 | 1087.5 | 657.4 | 510.8 | 403.2 | 332.4 | 290.8 | 272.5 |
| 47.5° | 17267.5 | 14412.0 | 6012.9 | 2354.6 | 1019.0 | 599.9 | 537.6 | 394.7 | 316.4 | 276.1 | 255.3 |
| 50° | 18034.9 | 15189.2 | 6289.0 | 2288.5 | 946.9 | 540.1 | 615.8 | 397.1 | 303.0 | 261.5 | 239.5 |
| 52.5° | 19105.2 | 16264.4 | 6694.7 | 2177.4 | 848.0 | 485.1 | 606.1 | 399.5 | 288.4 | 245.6 | 223.6 |
| 55° | 20305.1 | 17607.2 | 7130.9 | 1992.9 | 709.9 | 413.0 | 519.3 | 382.5 | 260.3 | 228.5 | 207.7 |
| 57.5° | 21566.1 | 18825.5 | 7389.9 | 1772.9 | 564.5 | 356.8 | 415.5 | 348.2 | 229.7 | 205.3 | 191.8 |
| 60° | 21764.0 | 19288.5 | 7271.4 | 1502.9 | 448.4 | 310.4 | 307.9 | 354.4 | 205.3 | 180.8 | 171.0 |
| 62.5° | 21271.6 | 18706.9 | 6698.3 | 1262.2 | 375.1 | 272.5 | 252.9 | 309.2 | 185.8 | 161.3 | 151.5 |
| 65° | 20324.7 | 17134.3 | 5769.7 | 1137.6 | 348.2 | 233.4 | 210.2 | 217.5 | 162.6 | 140.5 | 132.0 |
| 67.5° | 19007.5 | 15035.2 | 4737.2 | 1066.7 | 344.6 | 200.4 | 179.6 | 165.0 | 140.5 | 122.2 | 114.9 |
| 70° | 16314.5 | 12525.4 | 3779.3 | 1027.6 | 334.8 | 168.6 | 151.5 | 134.4 | 117.3 | 103.9 | 97.7 |
| 72.5° | 12007.4 | 8875.7 | 2939.9 | 984.8 | 337.2 | 134.4 | 132.0 | 111.2 | 94.1 | 80.7 | 78.2 |
| 75° | 6937.8 | 5070.8 | 1928.1 | 797.9 | 321.4 | 103.9 | 109.9 | 78.2 | 66.0 | 56.2 | 56.2 |
| 77.5° | 3697.4 | 3092.6 | 734.3 | 332.4 | 117.3 | 66.0 | 62.3 | 46.4 | 41.5 | 34.2 | 33.0 |
| 80° | 1611.7 | 1361.2 | 221.1 | 92.9 | 64.7 | 35.4 | 23.2 | 20.8 | 18.4 | 14.6 | 13.4 |
| 82.5° | 570.6 | 492.4 | 72.1 | 45.2 | 28.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 129.5 | 92.9 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GLEON-SA8A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 |
| 2.5° | 7339.8 | 7312.9 | 7154.1 | 7160.2 | 7188.3 | 7228.6 | 7133.3 | 7177.3 | 7295.8 | 7409.4 | 7452.2 |
| 5° | 5675.6 | 5681.7 | 5585.2 | 5645.1 | 5698.8 | 5735.4 | 5581.6 | 5584.0 | 5678.1 | 5806.3 | 5873.6 |
| 7.5° | 3999.2 | 3989.4 | 3994.3 | 4137.3 | 4238.7 | 4165.4 | 4222.8 | 4023.6 | 4035.8 | 4127.5 | 4059.0 |
| 10° | 2972.8 | 2838.4 | 2762.7 | 2870.2 | 2981.4 | 2941.1 | 2842.1 | 2777.3 | 2822.5 | 2923.9 | 2916.6 |
| 12.5° | 2336.2 | 2143.2 | 2029.6 | 1952.5 | 2044.2 | 1968.5 | 1966.0 | 1909.8 | 1848.7 | 1859.6 | 2022.2 |
| 15° | 1757.1 | 1616.5 | 1482.1 | 1358.8 | 1356.2 | 1330.6 | 1199.9 | 1053.3 | 1041.0 | 1048.4 | 1132.7 |
| 17.5° | 1208.4 | 1160.8 | 1105.8 | 999.5 | 971.4 | 863.8 | 736.8 | 678.2 | 648.8 | 662.2 | 690.4 |
| 20° | 849.2 | 830.8 | 837.0 | 779.5 | 739.3 | 636.6 | 562.1 | 538.8 | 534.0 | 547.4 | 560.9 |
| 22.5° | 703.8 | 670.8 | 667.2 | 641.5 | 601.1 | 526.6 | 486.3 | 472.9 | 466.8 | 479.0 | 488.8 |
| 25° | 615.8 | 582.9 | 569.4 | 553.5 | 510.8 | 459.4 | 435.0 | 422.7 | 416.7 | 423.9 | 430.1 |
| 27.5° | 542.5 | 512.0 | 499.8 | 488.8 | 447.2 | 410.5 | 391.0 | 380.0 | 375.1 | 377.6 | 383.7 |
| 30° | 487.6 | 460.7 | 444.7 | 431.3 | 395.9 | 370.2 | 353.1 | 342.2 | 337.2 | 337.2 | 343.4 |
| 32.5° | 430.1 | 415.5 | 400.8 | 383.7 | 350.6 | 333.6 | 316.4 | 304.2 | 299.4 | 300.6 | 305.5 |
| 35° | 358.0 | 353.1 | 356.8 | 340.9 | 312.8 | 298.1 | 281.0 | 267.6 | 263.9 | 265.1 | 270.1 |
| 37.5° | 317.7 | 295.7 | 309.2 | 300.6 | 284.7 | 265.1 | 243.1 | 230.9 | 224.8 | 228.5 | 230.9 |
| 40° | 292.0 | 265.1 | 255.3 | 263.9 | 261.5 | 229.7 | 210.2 | 198.0 | 193.0 | 194.3 | 196.7 |
| 42.5° | 270.1 | 238.3 | 216.3 | 215.1 | 229.7 | 200.4 | 179.6 | 168.6 | 162.6 | 162.6 | 165.0 |
| 45° | 249.3 | 215.1 | 188.2 | 167.4 | 193.0 | 169.8 | 150.3 | 140.5 | 133.2 | 133.2 | 134.4 |
| 47.5° | 233.4 | 195.5 | 163.8 | 136.8 | 145.4 | 139.3 | 123.4 | 113.6 | 106.3 | 106.3 | 107.5 |
| 50° | 218.7 | 176.0 | 141.8 | 114.9 | 108.7 | 114.9 | 100.2 | 89.2 | 84.3 | 83.1 | 85.5 |
| 52.5° | 202.8 | 156.4 | 121.0 | 97.7 | 85.5 | 86.7 | 78.2 | 70.9 | 64.7 | 64.7 | 67.2 |
| 55° | 187.0 | 140.5 | 105.1 | 83.1 | 70.9 | 64.7 | 62.3 | 57.4 | 52.5 | 52.5 | 55.0 |
| 57.5° | 171.0 | 123.4 | 89.2 | 68.5 | 56.2 | 51.3 | 51.3 | 47.7 | 44.0 | 44.0 | 46.4 |
| 60° | 156.4 | 106.3 | 73.3 | 56.2 | 44.0 | 42.8 | 44.0 | 40.3 | 37.9 | 37.9 | 40.3 |
| 62.5° | 139.3 | 90.5 | 59.9 | 46.4 | 35.4 | 34.2 | 37.9 | 35.4 | 33.0 | 33.0 | 35.4 |
| 65° | 118.5 | 76.9 | 47.7 | 35.4 | 26.9 | 26.9 | 31.8 | 29.3 | 26.9 | 26.9 | 29.3 |
| 67.5° | 100.2 | 64.7 | 36.6 | 25.6 | 19.6 | 20.8 | 26.9 | 24.4 | 23.2 | 23.2 | 25.6 |
| 70° | 83.1 | 50.1 | 25.6 | 15.9 | 11.0 | 15.9 | 20.8 | 20.8 | 20.8 | 20.8 | 23.2 |
| 72.5° | 62.3 | 34.2 | 14.6 | 6.1 | 4.8 | 11.0 | 17.1 | 19.6 | 18.4 | 18.4 | 22.0 |
| 75° | 40.3 | 19.6 | 4.8 | 0.0 | 0.0 | 6.1 | 13.4 | 15.9 | 15.9 | 14.6 | 18.4 |
| 77.5° | 23.2 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 7.4 | 6.1 | 4.8 | 8.6 |
| 80° | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 | 8653.3 |
| 2.5° | 7624.5 | 7768.6 | 7971.5 | 8186.5 | 8517.7 | 8780.4 | 9038.2 | 9259.4 | 9344.9 | 9380.3 |
| 5° | 6034.8 | 6246.2 | 6543.1 | 6924.4 | 7521.9 | 8059.5 | 8604.4 | 9153.1 | 9391.3 | 9451.2 |
| 7.5° | 4330.3 | 4600.4 | 4977.9 | 5455.7 | 6155.9 | 6852.3 | 7613.5 | 8418.7 | 8787.8 | 8880.6 |
| 10° | 3205.0 | 3534.9 | 3967.5 | 4470.9 | 5139.2 | 5855.2 | 6684.9 | 7605.0 | 8026.5 | 8149.9 |
| 12.5° | 2273.9 | 2719.9 | 3299.1 | 3911.2 | 4490.4 | 5129.5 | 5968.9 | 6983.0 | 7425.4 | 7558.5 |
| 15° | 1335.5 | 1766.9 | 2452.3 | 3272.2 | 4013.9 | 4661.5 | 5514.3 | 6664.1 | 7151.7 | 7286.0 |
| 17.5° | 766.1 | 981.2 | 1499.2 | 2413.2 | 3420.0 | 4316.9 | 5371.4 | 6743.6 | 7317.8 | 7442.4 |
| 20° | 585.3 | 653.7 | 863.8 | 1554.2 | 2726.0 | 3978.5 | 5371.4 | 7193.2 | 7900.6 | 8084.0 |
| 22.5° | 512.0 | 562.1 | 647.6 | 927.4 | 2006.3 | 3615.5 | 5433.7 | 7843.3 | 8768.2 | 8971.0 |
| 25° | 454.5 | 499.8 | 573.1 | 697.7 | 1368.5 | 3184.2 | 5581.6 | 8641.1 | 9789.6 | 10052.3 |
| 27.5° | 406.9 | 449.7 | 515.6 | 610.9 | 935.9 | 2663.7 | 5780.7 | 9577.1 | 10916.2 | 11126.4 |
| 30° | 364.1 | 404.5 | 464.3 | 531.5 | 722.1 | 2073.5 | 5950.5 | 10459.2 | 11800.8 | 12026.9 |
| 32.5° | 323.8 | 360.4 | 414.3 | 464.3 | 591.3 | 1533.4 | 5968.9 | 11158.2 | 12535.2 | 12760.1 |
| 35° | 285.9 | 318.9 | 367.8 | 406.9 | 490.0 | 1210.9 | 5684.1 | 11764.2 | 13269.5 | 13566.5 |
| 37.5° | 249.3 | 281.0 | 323.8 | 353.1 | 431.3 | 987.3 | 5249.2 | 12439.9 | 14211.6 | 14486.6 |
| 40° | 215.1 | 243.1 | 287.1 | 306.7 | 408.1 | 758.7 | 4776.3 | 13148.6 | 15135.3 | 15387.1 |
| 42.5° | 183.2 | 210.2 | 252.9 | 290.8 | 358.0 | 566.9 | 4265.6 | 13813.3 | 15966.3 | 16230.2 |
| 45° | 152.8 | 180.8 | 223.6 | 307.9 | 296.9 | 423.9 | 3719.4 | 14254.4 | 16622.3 | 16909.5 |
| 47.5° | 123.4 | 155.2 | 213.8 | 293.3 | 237.1 | 311.6 | 3286.9 | 14672.2 | 17119.7 | 17403.2 |
| 50° | 98.9 | 130.7 | 240.7 | 261.5 | 194.3 | 238.3 | 3106.0 | 15046.2 | 17445.9 | 17718.4 |
| 52.5° | 80.7 | 109.9 | 227.3 | 200.4 | 162.6 | 196.7 | 3203.8 | 15652.2 | 17747.8 | 17918.8 |
| 55° | 67.2 | 86.7 | 136.8 | 139.3 | 138.1 | 167.4 | 3324.7 | 16522.2 | 18528.5 | 18609.2 |
| 57.5° | 58.7 | 69.7 | 95.3 | 107.5 | 116.1 | 149.0 | 3327.2 | 17770.9 | 19737.0 | 19787.0 |
| 60° | 50.1 | 61.1 | 79.5 | 86.7 | 100.2 | 133.2 | 3206.2 | 18207.2 | 20212.3 | 20378.4 |
| 62.5° | 44.0 | 53.8 | 66.0 | 72.1 | 84.3 | 119.7 | 2922.7 | 17575.4 | 19559.8 | 19842.1 |
| 65° | 39.1 | 48.9 | 55.0 | 61.1 | 74.5 | 107.5 | 2455.9 | 16312.1 | 18477.2 | 18771.7 |
| 67.5° | 34.2 | 42.8 | 48.9 | 55.0 | 67.2 | 95.3 | 1808.4 | 14844.6 | 17234.6 | 17478.9 |
| 70° | 30.6 | 37.9 | 44.0 | 48.9 | 58.7 | 80.7 | 1097.3 | 12596.3 | 15516.6 | 15618.0 |
| 72.5° | 29.3 | 34.2 | 40.3 | 44.0 | 51.3 | 70.9 | 555.9 | 9256.9 | 12404.5 | 12569.5 |
| 75° | 25.6 | 30.6 | 36.6 | 39.1 | 45.2 | 61.1 | 226.1 | 6080.0 | 8989.3 | 9254.5 |
| 77.5° | 20.8 | 28.1 | 33.0 | 35.4 | 39.1 | 50.1 | 114.9 | 3885.6 | 6308.5 | 6479.6 |
| 80° | 7.4 | 20.8 | 28.1 | 29.3 | 33.0 | 36.6 | 75.7 | 2127.3 | 3659.5 | 3732.8 |
| 82.5° | 0.0 | 13.4 | 22.0 | 20.8 | 23.2 | 28.1 | 48.9 | 1011.8 | 2415.7 | 2442.5 |
| 85° | 0.0 | 6.1 | 17.1 | 13.4 | 9.8 | 19.6 | 17.1 | 221.1 | 1267.1 | 1319.6 |
| 87.5° | 0.0 | 0.0 | 1.2 | 6.1 | 4.8 | 7.4 | 2.4 | 1.2 | 114.9 | 145.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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