

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: P324585

Luminaire Tested: **GLEON-SA1A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

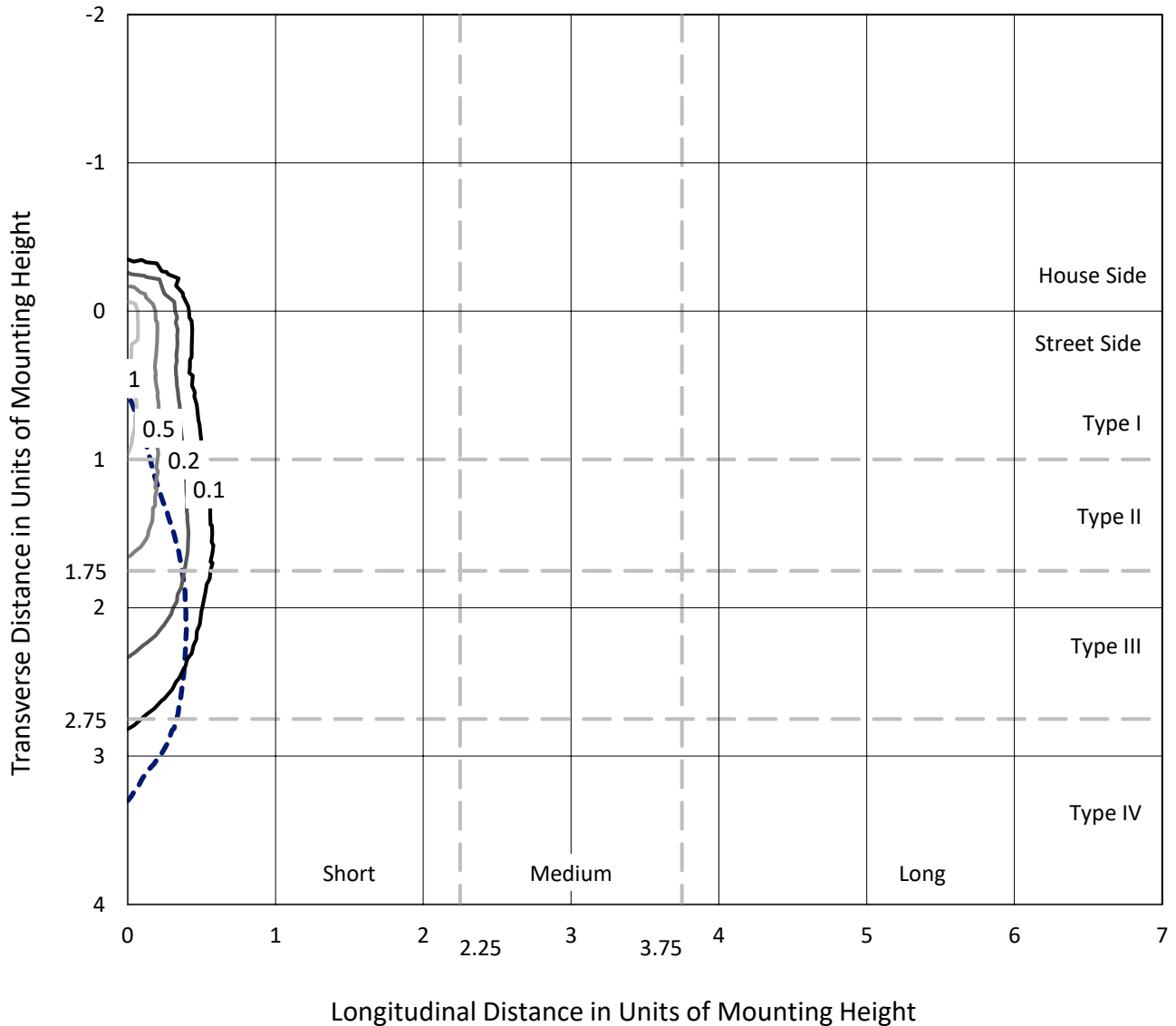
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324585
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Iso-Footcandle Lines of Horizontal Illumination

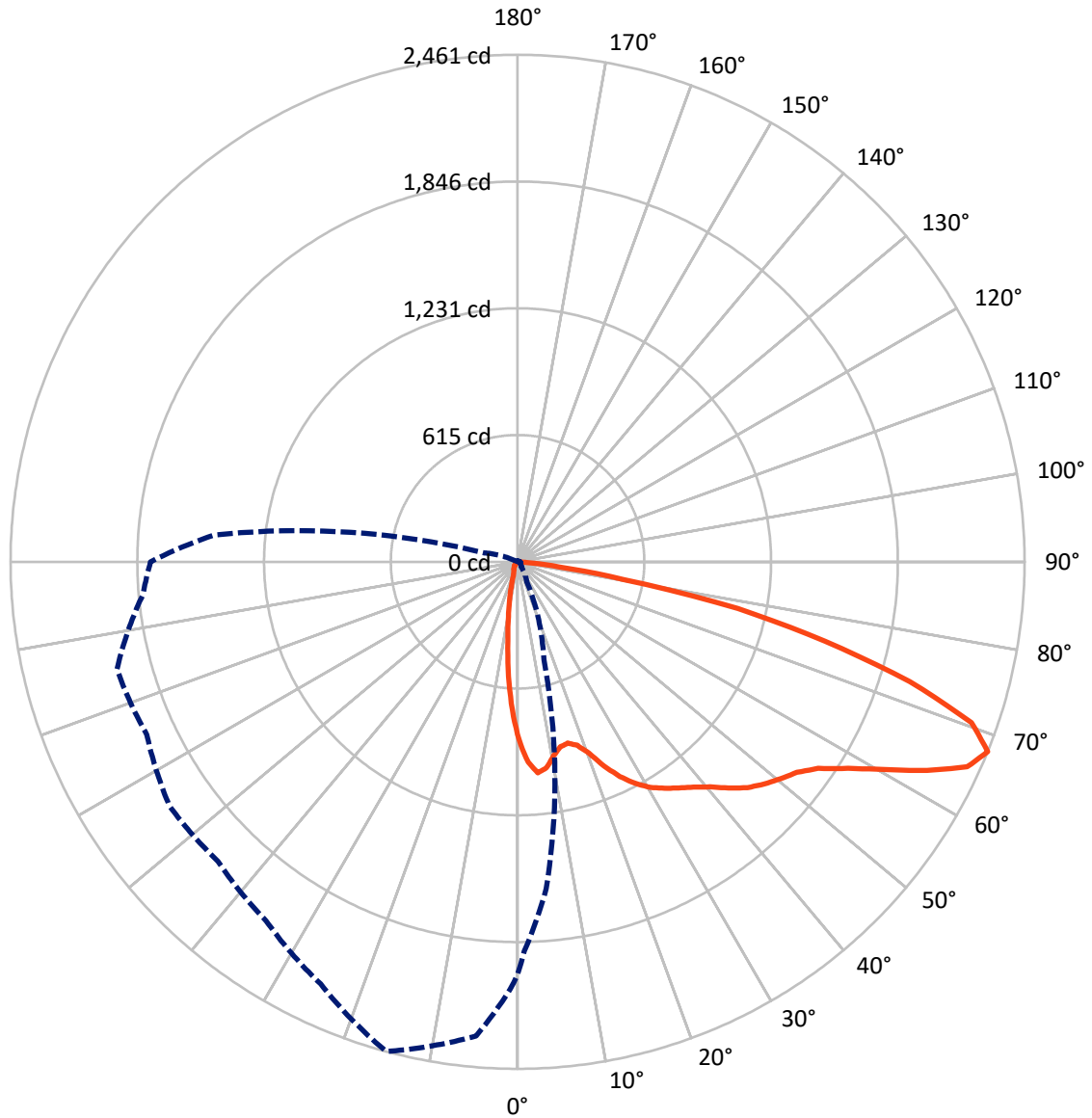
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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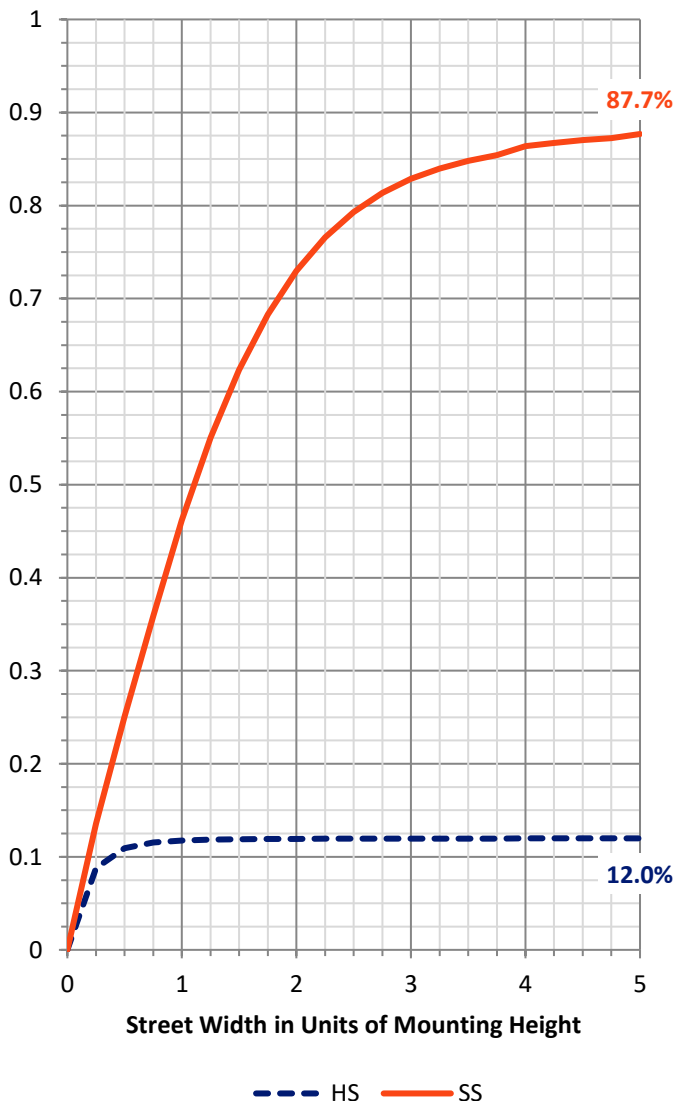
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 321.8 | 0.0 | 321.8 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 2337.2 | 0.0 | 2337.2 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 2659.0 | 0.0 | 2659.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.5 | 2.5 |
| 10°-20° | 132.3 | 5.0 |
| 20°-30° | 187.9 | 7.1 |
| 30°-40° | 277.5 | 10.4 |
| 40°-50° | 400.3 | 15.1 |
| 50°-60° | 561.9 | 21.1 |
| 60°-70° | 655.0 | 24.6 |
| 70°-80° | 334.9 | 12.6 |
| 80°-90° | 42.8 | 1.6 |
| 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° | 2659.0 | 100.0 |
| 0°-180° | 2659.0 | 100.0 |

Coefficient of Utilization

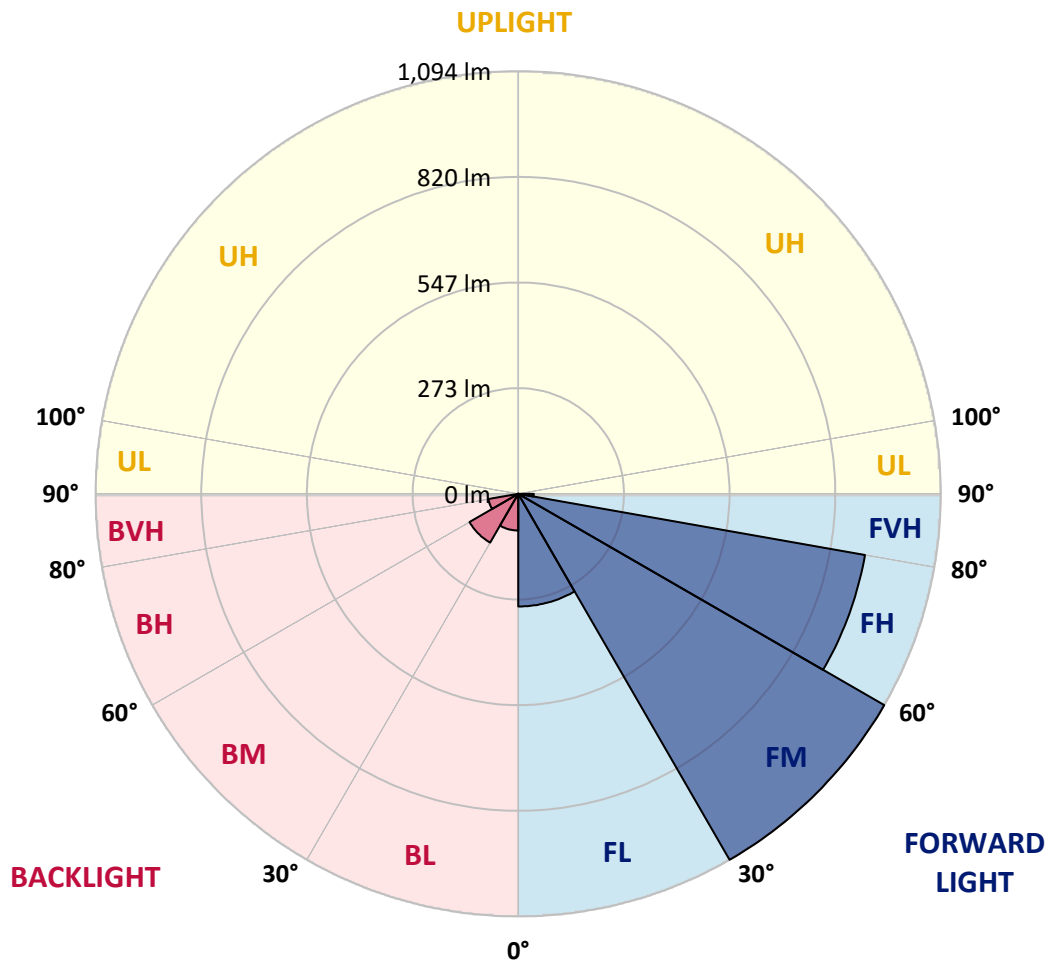


REPORT NUMBER: P324585
 CATALOG NUMBER: GLEON-SA1A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 291.6 | 11.0 | | | |
| FM (30°-60°) | 1094.0 | 41.1 | | | |
| FH (60°-80°) | 911.4 | 34.3 | | | G1/1800 |
| FVH (80°-90°) | 40.2 | 1.5 | | | G1/100 |
| BL (0°-30°) | 95.1 | 3.6 | B0/110 | | |
| BM (30°-60°) | 145.7 | 5.5 | B0/220 | | |
| BH (60°-80°) | 78.4 | 2.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type IV Medium





REPORT NUMBER: P324585

CATALOG NUMBER: GLEON-SA1A-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 |
| 2.5° | 948.4 | 941.1 | 933.1 | 906.7 | 882.3 | 854.3 | 831.5 | 815.7 | 795.7 | 769.9 | 763.4 |
| 5° | 941.6 | 933.8 | 908.5 | 849.9 | 798.6 | 748.8 | 700.6 | 672.4 | 637.4 | 601.9 | 593.1 |
| 7.5° | 873.2 | 865.0 | 828.5 | 748.3 | 679.2 | 607.2 | 544.7 | 506.0 | 466.5 | 434.0 | 416.7 |
| 10° | 802.0 | 793.1 | 752.0 | 654.7 | 569.6 | 504.5 | 458.7 | 421.7 | 384.3 | 349.6 | 321.9 |
| 12.5° | 753.0 | 741.3 | 696.7 | 586.4 | 512.3 | 468.1 | 425.3 | 381.1 | 330.4 | 293.1 | 262.6 |
| 15° | 732.5 | 719.2 | 672.0 | 560.1 | 492.0 | 440.1 | 384.3 | 330.0 | 270.7 | 228.0 | 200.0 |
| 17.5° | 748.4 | 731.0 | 680.5 | 558.3 | 466.6 | 395.9 | 325.4 | 261.6 | 197.3 | 154.1 | 134.2 |
| 20° | 802.3 | 779.5 | 715.4 | 557.8 | 435.7 | 343.4 | 254.0 | 181.9 | 130.0 | 104.6 | 94.1 |
| 22.5° | 887.2 | 857.1 | 765.5 | 561.8 | 403.9 | 288.2 | 183.4 | 123.6 | 97.6 | 84.4 | 78.2 |
| 25° | 989.7 | 954.8 | 837.7 | 576.1 | 375.9 | 234.6 | 133.3 | 97.6 | 82.4 | 72.7 | 67.5 |
| 27.5° | 1087.2 | 1058.9 | 928.9 | 596.6 | 354.2 | 191.2 | 108.2 | 82.8 | 70.4 | 64.0 | 59.8 |
| 30° | 1184.6 | 1149.0 | 1022.5 | 621.0 | 328.1 | 161.9 | 95.1 | 75.5 | 63.1 | 56.3 | 53.7 |
| 32.5° | 1255.4 | 1225.8 | 1095.8 | 638.7 | 300.3 | 142.7 | 85.0 | 69.0 | 59.0 | 52.0 | 48.1 |
| 35° | 1338.7 | 1305.2 | 1158.7 | 642.6 | 282.4 | 130.6 | 76.5 | 62.1 | 51.1 | 45.0 | 40.8 |
| 37.5° | 1428.6 | 1386.9 | 1231.2 | 634.0 | 268.4 | 124.7 | 70.0 | 59.0 | 47.7 | 41.4 | 37.0 |
| 40° | 1528.1 | 1481.0 | 1300.9 | 621.7 | 254.7 | 122.7 | 65.1 | 56.6 | 45.1 | 38.7 | 34.1 |
| 42.5° | 1632.9 | 1577.4 | 1361.2 | 608.7 | 246.0 | 115.8 | 64.6 | 54.2 | 43.1 | 36.2 | 31.6 |
| 45° | 1721.0 | 1664.7 | 1423.2 | 604.4 | 239.8 | 108.2 | 66.8 | 52.5 | 41.7 | 34.1 | 29.7 |
| 47.5° | 1791.2 | 1737.9 | 1486.7 | 614.0 | 236.3 | 101.3 | 60.8 | 54.7 | 40.9 | 32.4 | 28.1 |
| 50° | 1874.9 | 1814.6 | 1576.1 | 642.6 | 231.2 | 94.4 | 55.0 | 62.6 | 40.9 | 31.2 | 26.7 |
| 52.5° | 1980.0 | 1920.3 | 1675.9 | 686.9 | 220.8 | 84.8 | 49.5 | 62.7 | 41.3 | 29.7 | 24.9 |
| 55° | 2112.1 | 2068.8 | 1818.4 | 735.5 | 204.3 | 70.7 | 42.8 | 53.9 | 39.8 | 27.0 | 23.3 |
| 57.5° | 2238.9 | 2203.5 | 1948.2 | 768.8 | 182.3 | 55.2 | 37.3 | 43.5 | 36.4 | 23.7 | 20.8 |
| 59° | 2273.5 | 2234.8 | 1995.9 | 770.3 | 165.8 | 48.1 | 34.5 | 35.9 | 35.6 | 22.2 | 19.3 |
| 60° | 2273.5 | 2232.4 | 2009.6 | 762.2 | 153.8 | 44.2 | 32.8 | 32.0 | 37.2 | 21.2 | 18.4 |
| 62.5° | 2232.3 | 2174.6 | 1965.0 | 707.7 | 125.5 | 37.7 | 28.6 | 26.5 | 33.4 | 19.0 | 16.3 |
| 65° | 2146.6 | 2062.6 | 1813.1 | 609.1 | 111.9 | 34.5 | 24.7 | 21.7 | 23.2 | 16.8 | 14.2 |
| 67.5° | 2003.8 | 1889.9 | 1594.0 | 492.0 | 106.4 | 33.6 | 21.3 | 18.4 | 17.5 | 14.4 | 12.5 |
| 70° | 1752.2 | 1625.9 | 1328.1 | 386.9 | 101.8 | 33.3 | 17.9 | 15.5 | 14.1 | 12.1 | 10.6 |
| 72.5° | 1275.3 | 1143.5 | 942.9 | 302.5 | 99.0 | 34.0 | 14.4 | 13.0 | 11.6 | 9.4 | 8.2 |
| 75° | 729.5 | 643.2 | 530.0 | 199.8 | 84.4 | 32.5 | 11.1 | 10.8 | 8.3 | 6.8 | 5.7 |
| 77.5° | 376.9 | 365.4 | 317.6 | 76.7 | 40.4 | 14.2 | 7.3 | 6.3 | 4.9 | 4.2 | 3.4 |
| 80° | 162.6 | 160.9 | 139.2 | 22.2 | 10.7 | 7.9 | 4.2 | 2.6 | 2.3 | 1.8 | 1.4 |
| 82.5° | 56.2 | 56.2 | 49.5 | 7.4 | 4.8 | 3.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 11.3 | 12.7 | 8.9 | 0.0 | 1.6 | 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-SA1A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 |
| 2.5° | 755.4 | 740.2 | 739.2 | 729.6 | 717.6 | 712.2 | 709.1 | 714.6 | 721.4 | 722.2 | 732.4 |
| 5° | 586.4 | 570.4 | 577.1 | 560.1 | 563.5 | 560.1 | 554.5 | 555.5 | 558.5 | 549.1 | 560.8 |
| 7.5° | 411.8 | 399.7 | 407.4 | 402.8 | 408.9 | 411.3 | 407.9 | 402.8 | 388.0 | 386.2 | 396.4 |
| 10° | 310.4 | 296.7 | 288.5 | 279.9 | 281.8 | 285.7 | 284.4 | 280.8 | 271.3 | 271.8 | 281.7 |
| 12.5° | 249.4 | 234.1 | 217.8 | 196.8 | 191.6 | 194.5 | 191.6 | 189.5 | 180.4 | 181.1 | 189.8 |
| 15° | 189.2 | 176.6 | 159.6 | 142.7 | 133.5 | 134.4 | 126.3 | 120.7 | 115.0 | 108.2 | 113.5 |
| 17.5° | 127.7 | 120.0 | 115.0 | 110.0 | 99.0 | 96.5 | 86.3 | 75.3 | 71.0 | 67.9 | 70.2 |
| 20° | 90.4 | 86.3 | 84.3 | 84.0 | 77.7 | 74.6 | 64.6 | 57.8 | 55.7 | 55.0 | 56.4 |
| 22.5° | 75.6 | 72.6 | 69.7 | 68.0 | 64.9 | 61.2 | 53.7 | 50.3 | 48.8 | 48.0 | 49.0 |
| 25° | 65.8 | 63.5 | 60.5 | 57.7 | 56.4 | 52.5 | 47.1 | 44.6 | 43.6 | 42.8 | 43.3 |
| 27.5° | 58.4 | 56.4 | 52.9 | 51.1 | 50.1 | 46.7 | 42.1 | 40.1 | 39.2 | 38.9 | 38.8 |
| 30° | 52.7 | 50.8 | 47.5 | 45.5 | 43.7 | 40.7 | 37.9 | 35.9 | 35.0 | 34.8 | 34.5 |
| 32.5° | 46.9 | 45.3 | 43.2 | 41.2 | 39.3 | 36.5 | 34.1 | 32.5 | 31.1 | 30.9 | 30.7 |
| 35° | 39.6 | 38.0 | 36.9 | 36.8 | 35.0 | 32.4 | 30.6 | 28.5 | 27.3 | 27.0 | 27.1 |
| 37.5° | 35.1 | 33.1 | 30.6 | 31.5 | 31.0 | 29.1 | 26.7 | 24.6 | 23.4 | 23.2 | 23.2 |
| 40° | 32.4 | 30.2 | 27.3 | 25.8 | 27.3 | 27.0 | 23.2 | 21.0 | 19.9 | 19.8 | 19.5 |
| 42.5° | 29.7 | 27.6 | 24.3 | 21.8 | 22.5 | 23.7 | 20.0 | 18.0 | 16.9 | 16.6 | 16.3 |
| 45° | 27.8 | 25.6 | 21.9 | 19.0 | 17.5 | 19.9 | 17.1 | 14.6 | 14.0 | 13.5 | 13.2 |
| 47.5° | 26.1 | 23.9 | 19.8 | 16.5 | 14.0 | 14.4 | 13.7 | 12.0 | 11.2 | 10.7 | 10.6 |
| 50° | 24.6 | 22.3 | 17.9 | 14.1 | 11.6 | 10.6 | 11.1 | 9.4 | 8.8 | 8.3 | 8.1 |
| 52.5° | 22.8 | 20.7 | 15.9 | 12.2 | 9.7 | 8.3 | 8.4 | 7.4 | 6.8 | 6.4 | 6.3 |
| 55° | 21.4 | 19.3 | 14.2 | 10.7 | 8.6 | 6.8 | 6.0 | 5.8 | 5.4 | 5.2 | 5.0 |
| 57.5° | 19.5 | 17.5 | 12.6 | 9.1 | 7.3 | 5.5 | 4.7 | 4.7 | 4.5 | 4.3 | 4.2 |
| 59° | 18.4 | 16.6 | 11.6 | 8.2 | 6.7 | 4.8 | 4.2 | 4.3 | 4.2 | 3.9 | 3.8 |
| 60° | 17.5 | 15.9 | 10.8 | 7.6 | 6.3 | 4.4 | 3.8 | 4.0 | 3.9 | 3.7 | 3.5 |
| 62.5° | 15.5 | 14.4 | 9.3 | 6.3 | 5.5 | 3.5 | 3.1 | 3.4 | 3.4 | 3.3 | 3.1 |
| 65° | 13.6 | 12.3 | 7.9 | 5.3 | 5.2 | 3.0 | 2.5 | 3.0 | 3.1 | 2.9 | 2.6 |
| 67.5° | 11.8 | 10.6 | 6.9 | 4.3 | 4.8 | 2.4 | 1.9 | 2.5 | 3.4 | 2.6 | 2.4 |
| 70° | 10.1 | 8.8 | 5.4 | 3.4 | 5.0 | 1.6 | 1.5 | 2.3 | 4.0 | 2.9 | 2.3 |
| 72.5° | 7.8 | 6.8 | 3.8 | 2.5 | 5.4 | 1.1 | 1.1 | 1.9 | 4.5 | 3.1 | 2.1 |
| 75° | 5.4 | 4.4 | 2.3 | 1.5 | 4.4 | 0.8 | 0.8 | 1.8 | 4.3 | 2.9 | 2.0 |
| 77.5° | 3.1 | 2.4 | 0.8 | 0.1 | 2.3 | 0.0 | 0.1 | 1.3 | 3.0 | 1.8 | 0.9 |
| 80° | 1.1 | 0.5 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.3 | 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 |



REPORT NUMBER: P324585

CATALOG NUMBER: GLEON-SA1A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 | 866.2 |
| 2.5° | 735.0 | 752.0 | 767.3 | 790.3 | 817.7 | 849.2 | 876.2 | 905.3 | 932.7 | 944.0 | 951.8 |
| 5° | 563.2 | 584.2 | 608.8 | 642.7 | 687.8 | 743.3 | 795.4 | 854.2 | 917.4 | 949.1 | 978.8 |
| 7.5° | 398.2 | 419.6 | 450.1 | 486.1 | 540.7 | 606.8 | 674.8 | 756.1 | 841.7 | 891.7 | 941.0 |
| 10° | 286.3 | 312.7 | 341.1 | 390.4 | 445.8 | 508.5 | 578.6 | 669.3 | 764.8 | 820.2 | 879.5 |
| 12.5° | 194.9 | 224.9 | 267.9 | 323.1 | 388.2 | 449.7 | 510.6 | 597.1 | 707.9 | 762.9 | 826.5 |
| 15° | 116.9 | 133.5 | 179.1 | 243.0 | 322.9 | 399.4 | 466.1 | 552.9 | 671.0 | 738.3 | 804.4 |
| 17.5° | 72.1 | 79.7 | 104.6 | 157.0 | 240.9 | 337.7 | 429.1 | 537.9 | 676.3 | 758.2 | 829.0 |
| 20° | 57.4 | 60.5 | 68.4 | 92.7 | 159.6 | 269.7 | 387.4 | 534.9 | 719.5 | 820.3 | 896.3 |
| 22.5° | 49.9 | 52.8 | 58.1 | 67.4 | 100.4 | 201.9 | 347.8 | 537.6 | 781.5 | 913.4 | 1002.1 |
| 25° | 44.0 | 46.5 | 51.5 | 59.2 | 73.6 | 142.2 | 305.5 | 550.0 | 862.3 | 1028.9 | 1123.1 |
| 27.5° | 39.3 | 41.4 | 46.1 | 53.2 | 63.1 | 99.3 | 257.5 | 565.0 | 958.0 | 1147.1 | 1240.0 |
| 30° | 35.0 | 36.9 | 41.1 | 47.6 | 54.8 | 76.3 | 204.8 | 575.2 | 1053.9 | 1240.0 | 1323.6 |
| 32.5° | 31.4 | 32.8 | 36.5 | 42.1 | 47.6 | 60.8 | 155.7 | 573.5 | 1125.0 | 1317.4 | 1383.6 |
| 35° | 27.6 | 29.0 | 32.2 | 37.0 | 41.4 | 50.3 | 122.4 | 542.9 | 1187.0 | 1397.6 | 1452.4 |
| 37.5° | 23.4 | 25.2 | 28.3 | 32.6 | 35.6 | 44.2 | 99.0 | 506.0 | 1249.9 | 1489.3 | 1529.1 |
| 40° | 19.9 | 21.7 | 24.4 | 29.1 | 31.0 | 41.9 | 76.1 | 461.0 | 1320.5 | 1591.9 | 1613.3 |
| 42.5° | 16.5 | 18.1 | 21.0 | 25.1 | 29.2 | 36.2 | 56.3 | 409.7 | 1388.4 | 1679.5 | 1690.0 |
| 45° | 13.4 | 15.0 | 18.0 | 22.0 | 31.2 | 30.0 | 43.6 | 354.6 | 1443.2 | 1752.5 | 1755.9 |
| 47.5° | 10.6 | 12.1 | 15.2 | 20.8 | 29.1 | 23.9 | 31.1 | 311.4 | 1489.2 | 1809.4 | 1800.5 |
| 50° | 8.2 | 9.4 | 12.7 | 23.8 | 25.4 | 19.8 | 23.6 | 297.0 | 1530.4 | 1844.7 | 1821.5 |
| 52.5° | 6.4 | 7.6 | 10.5 | 22.3 | 19.8 | 16.4 | 19.8 | 310.5 | 1586.8 | 1873.9 | 1833.4 |
| 55° | 5.2 | 6.3 | 8.2 | 12.7 | 13.5 | 13.9 | 16.9 | 323.1 | 1684.2 | 1942.4 | 1903.3 |
| 57.5° | 4.3 | 5.4 | 6.7 | 8.9 | 10.2 | 11.7 | 15.0 | 324.5 | 1799.0 | 2056.3 | 2019.3 |
| 59° | 3.9 | 4.9 | 6.0 | 7.9 | 8.9 | 10.7 | 14.1 | 316.9 | 1839.4 | 2097.8 | 2079.2 |
| 60° | 3.7 | 4.7 | 5.7 | 7.3 | 8.3 | 10.1 | 13.6 | 309.8 | 1841.2 | 2096.3 | 2104.8 |
| 62.5° | 3.1 | 4.2 | 5.0 | 6.2 | 7.1 | 8.6 | 12.2 | 283.2 | 1766.6 | 2027.6 | 2089.5 |
| 65° | 2.8 | 3.7 | 4.5 | 5.3 | 6.0 | 7.7 | 11.1 | 234.7 | 1639.2 | 1916.9 | 1984.3 |
| 67.5° | 2.5 | 3.1 | 4.2 | 4.7 | 5.4 | 6.8 | 9.8 | 167.3 | 1480.1 | 1781.5 | 1825.2 |
| 70° | 2.3 | 3.0 | 3.8 | 4.3 | 4.9 | 5.9 | 8.4 | 96.1 | 1249.9 | 1583.2 | 1614.3 |
| 72.5° | 2.1 | 2.9 | 3.4 | 4.0 | 4.4 | 5.3 | 7.7 | 45.2 | 915.2 | 1268.3 | 1349.5 |
| 75° | 1.9 | 2.6 | 3.1 | 3.8 | 4.2 | 4.8 | 6.6 | 21.7 | 608.7 | 917.8 | 1010.1 |
| 77.5° | 1.1 | 2.1 | 2.9 | 3.4 | 3.7 | 4.2 | 5.4 | 12.5 | 388.5 | 635.3 | 748.3 |
| 80° | 0.0 | 0.8 | 2.1 | 2.9 | 3.1 | 3.5 | 4.2 | 9.8 | 207.8 | 362.9 | 435.6 |
| 82.5° | 0.0 | 0.0 | 1.5 | 2.3 | 2.1 | 2.4 | 3.1 | 6.2 | 93.7 | 237.2 | 267.3 |
| 85° | 0.0 | 0.0 | 0.5 | 1.8 | 1.5 | 1.1 | 2.1 | 2.1 | 20.5 | 120.0 | 149.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.1 | 0.8 | 0.5 | 0.9 | 0.3 | 0.1 | 8.9 | 36.3 |
| 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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| 12.5° | 961.6 | 1094.0 | 1178.1 | 1200.1 | 1160.8 | 1049.1 | 921.6 | 806.7 | 763.2 | 753.0 |
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| 20° | 979.5 | 992.9 | 979.9 | 991.6 | 1021.9 | 1035.7 | 991.9 | 892.5 | 814.8 | 802.3 |
| 22.5° | 1037.5 | 976.4 | 940.0 | 944.6 | 981.4 | 1050.7 | 1076.8 | 992.5 | 902.8 | 887.2 |
| 25° | 1105.0 | 989.7 | 917.8 | 913.7 | 951.4 | 1070.5 | 1154.4 | 1101.3 | 1007.0 | 989.7 |
| 27.5° | 1189.9 | 1019.7 | 913.3 | 909.1 | 941.0 | 1089.0 | 1218.9 | 1208.9 | 1116.7 | 1087.2 |
| 30° | 1255.4 | 1049.2 | 926.8 | 917.2 | 951.4 | 1101.9 | 1270.7 | 1300.3 | 1204.1 | 1184.6 |
| 32.5° | 1302.4 | 1084.0 | 948.7 | 934.8 | 980.9 | 1124.0 | 1310.6 | 1383.9 | 1285.0 | 1255.4 |
| 35° | 1338.2 | 1121.8 | 984.1 | 961.3 | 1021.5 | 1157.7 | 1348.0 | 1473.0 | 1371.0 | 1338.7 |
| 37.5° | 1371.7 | 1174.8 | 1039.4 | 1012.2 | 1085.1 | 1211.8 | 1387.6 | 1574.0 | 1467.3 | 1428.6 |
| 40° | 1418.4 | 1234.9 | 1124.7 | 1100.5 | 1192.0 | 1285.6 | 1436.9 | 1679.3 | 1576.8 | 1528.1 |
| 42.5° | 1465.1 | 1299.4 | 1211.9 | 1218.5 | 1325.4 | 1375.3 | 1500.7 | 1790.7 | 1684.8 | 1632.9 |
| 45° | 1507.9 | 1365.9 | 1336.3 | 1366.5 | 1449.3 | 1473.7 | 1564.0 | 1855.0 | 1771.1 | 1721.0 |
| 47.5° | 1545.9 | 1449.0 | 1459.9 | 1540.4 | 1590.1 | 1562.8 | 1611.4 | 1910.6 | 1835.4 | 1791.2 |
| 50° | 1590.1 | 1556.6 | 1622.7 | 1736.6 | 1752.2 | 1643.4 | 1654.5 | 1976.3 | 1910.4 | 1874.9 |
| 52.5° | 1638.5 | 1670.0 | 1803.1 | 1903.5 | 1898.5 | 1730.9 | 1697.8 | 2050.0 | 2013.4 | 1980.0 |
| 55° | 1693.4 | 1761.6 | 1962.0 | 2059.7 | 2055.4 | 1828.7 | 1769.6 | 2141.1 | 2142.4 | 2112.1 |
| 57.5° | 1774.9 | 1840.4 | 2069.8 | 2186.1 | 2193.2 | 1941.6 | 1891.3 | 2243.1 | 2259.0 | 2238.9 |
| 59° | 1833.4 | 1891.6 | 2112.5 | 2238.9 | 2268.1 | 2028.9 | 1980.2 | 2302.3 | 2291.9 | 2273.5 |
| 60° | 1876.7 | 1924.1 | 2133.7 | 2266.4 | 2311.5 | 2088.1 | 2045.9 | 2337.1 | 2295.8 | 2273.5 |
| 62.5° | 1983.9 | 1994.8 | 2171.8 | 2297.7 | 2361.5 | 2219.6 | 2230.5 | 2396.3 | 2268.7 | 2232.3 |
| 65° | 2033.9 | 2039.6 | 2171.3 | 2241.7 | 2313.2 | 2322.0 | 2398.1 | 2398.1 | 2202.6 | 2146.6 |
| 67.5° | 2013.0 | 1985.7 | 2063.6 | 2056.3 | 2127.6 | 2261.1 | 2461.1 | 2310.1 | 2076.1 | 2003.8 |
| 70° | 1842.9 | 1737.7 | 1703.1 | 1706.3 | 1760.8 | 1966.8 | 2336.4 | 2051.4 | 1836.8 | 1752.2 |
| 72.5° | 1533.4 | 1281.1 | 1195.6 | 1293.2 | 1307.4 | 1511.5 | 1991.1 | 1544.9 | 1354.5 | 1275.3 |
| 75° | 1233.4 | 903.1 | 764.0 | 867.0 | 891.2 | 1106.1 | 1540.2 | 962.2 | 791.2 | 729.5 |
| 77.5° | 886.1 | 648.2 | 548.2 | 541.0 | 572.3 | 701.5 | 1092.9 | 484.2 | 403.9 | 376.9 |
| 80° | 503.4 | 426.7 | 459.4 | 433.5 | 449.2 | 438.6 | 519.2 | 212.4 | 174.0 | 162.6 |
| 82.5° | 303.8 | 252.2 | 273.1 | 227.4 | 287.7 | 250.6 | 200.0 | 68.0 | 59.1 | 56.2 |
| 85° | 197.6 | 137.8 | 71.8 | 48.1 | 99.1 | 160.1 | 44.7 | 18.5 | 14.2 | 11.3 |
| 87.5° | 68.1 | 35.1 | 3.5 | 1.5 | 10.6 | 29.9 | 1.6 | 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 |

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