

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: P382758

Luminaire Tested: **GLEON-SA1B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4062.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

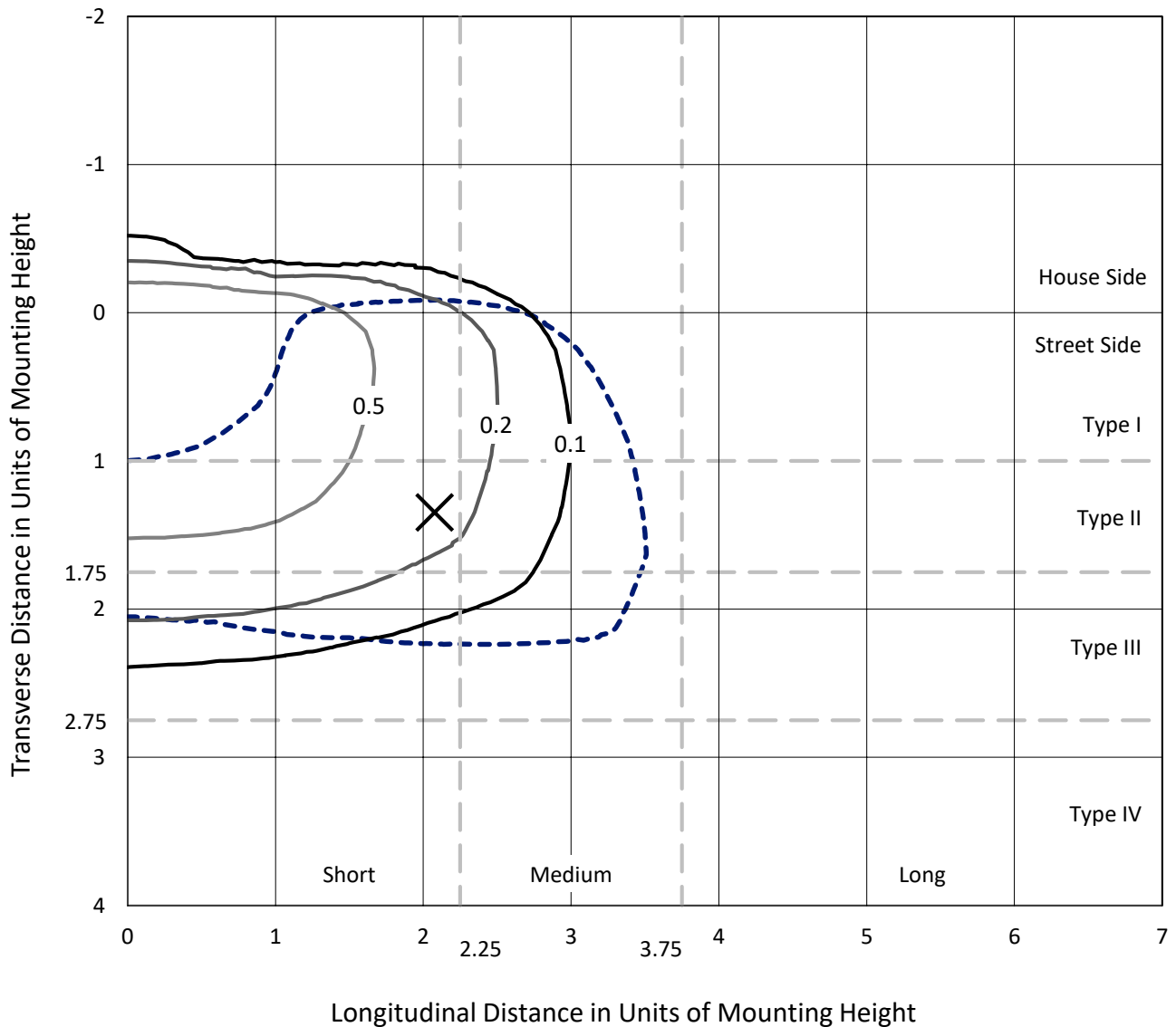
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

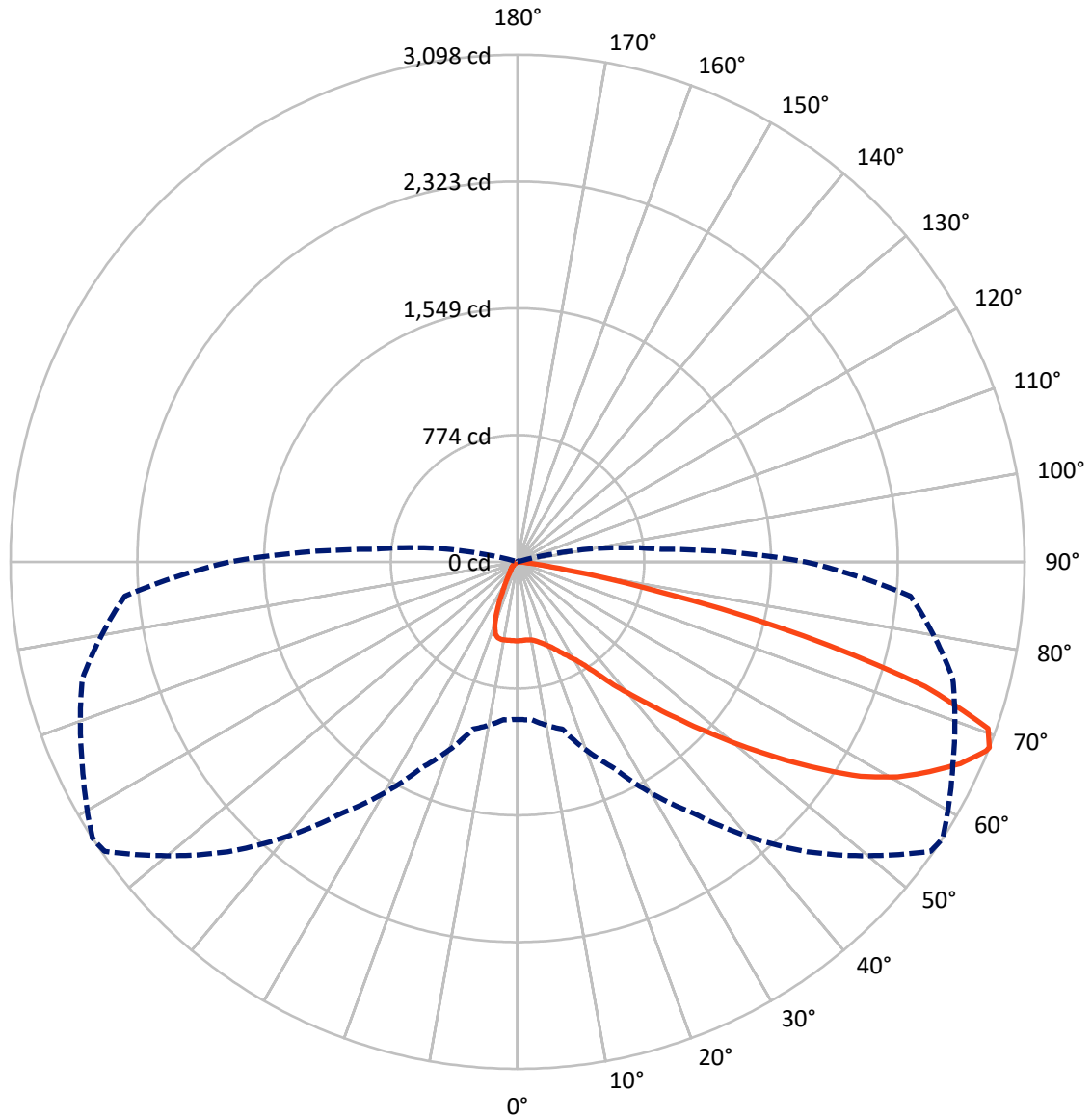
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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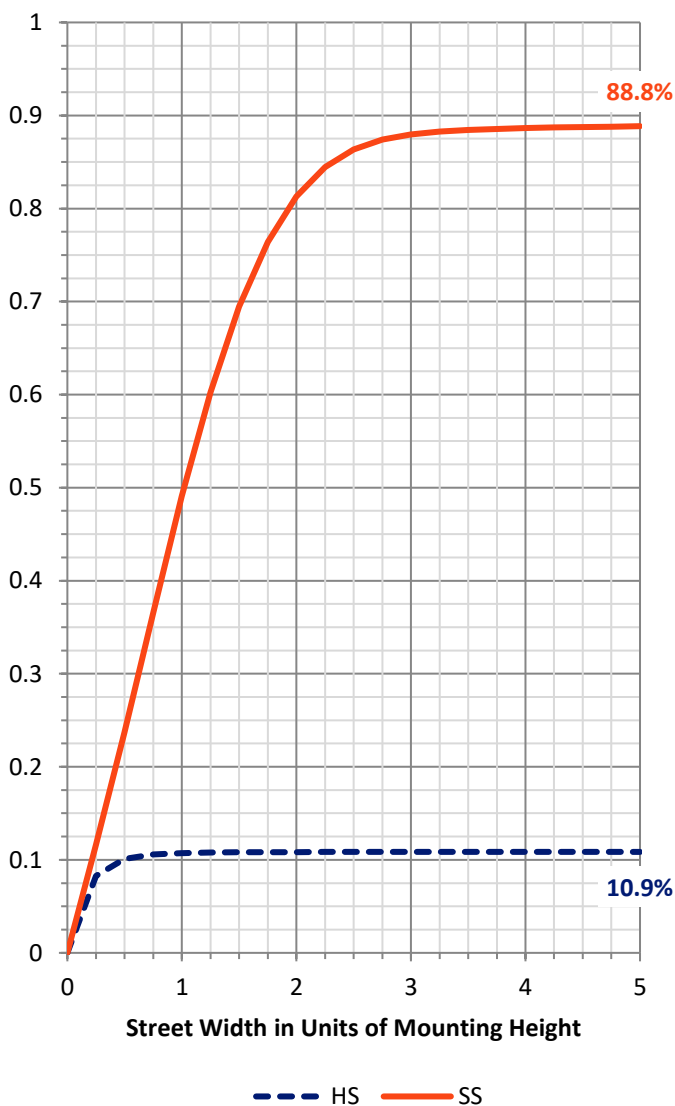
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 445.5 | 0.0 | 445.5 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 3617.0 | 0.0 | 3617.0 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 4062.5 | 0.0 | 4062.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.2 | 1.1 |
| 10°-20° | 125.2 | 3.1 |
| 20°-30° | 216.0 | 5.3 |
| 30°-40° | 372.7 | 9.2 |
| 40°-50° | 637.6 | 15.7 |
| 50°-60° | 1020.1 | 25.1 |
| 60°-70° | 1178.6 | 29.0 |
| 70°-80° | 450.3 | 11.1 |
| 80°-90° | 16.9 | 0.4 |
| 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° | 4062.5 | 100.0 |
| 0°-180° | 4062.5 | 100.0 |

Coefficient of Utilization



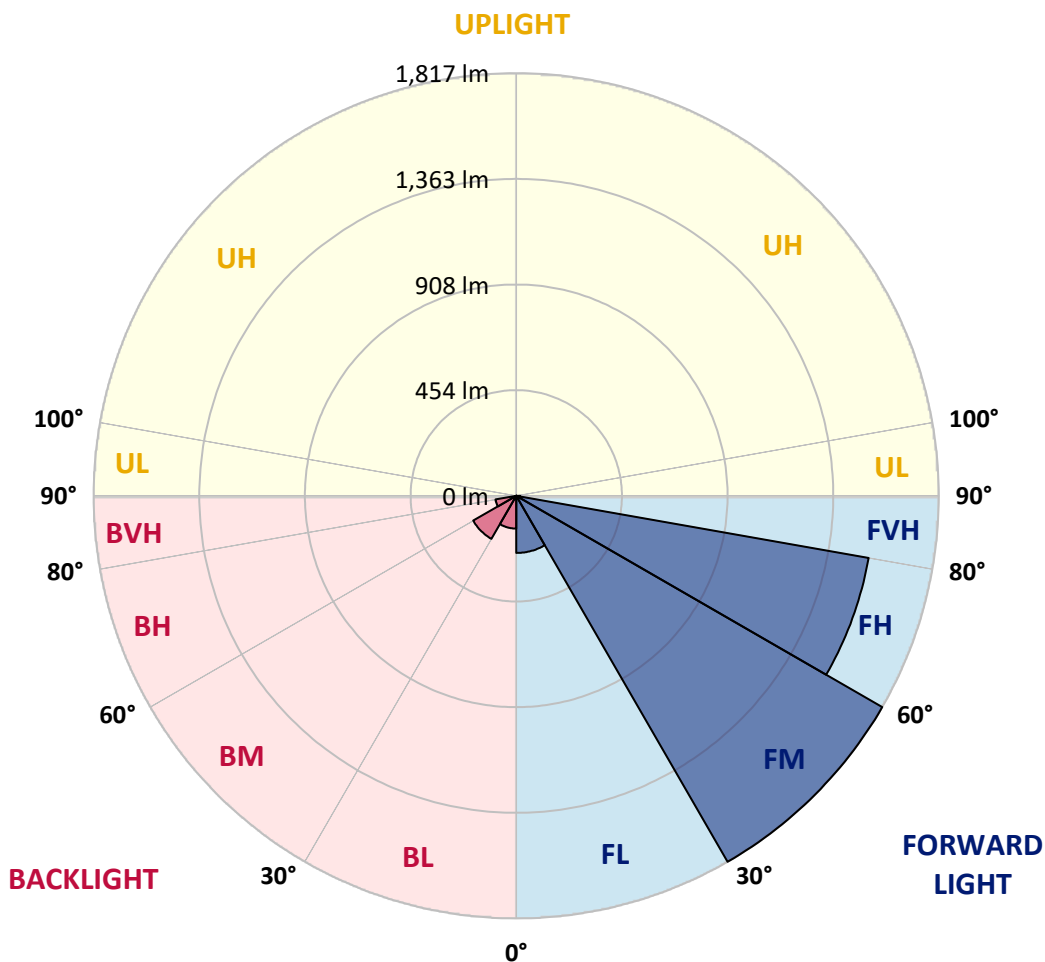
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 245.5 | 6.0 | | | |
| FM (30°-60°) | 1816.7 | 44.7 | | | |
| FH (60°-80°) | 1538.2 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 16.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 140.8 | 3.5 | B1/500 | | |
| BM (30°-60°) | 213.7 | 5.3 | B0/220 | | |
| BH (60°-80°) | 90.7 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 471.4 | 473.5 | 475.1 | 476.0 | 477.1 | 479.7 | 480.4 | 481.6 | 482.2 | 482.2 | 483.5 |
| 5° | 452.7 | 455.1 | 458.3 | 461.0 | 466.4 | 473.3 | 478.3 | 480.2 | 483.7 | 486.7 | 488.5 |
| 7.5° | 435.5 | 438.2 | 442.0 | 448.4 | 457.6 | 468.7 | 479.1 | 481.8 | 488.5 | 495.0 | 498.3 |
| 10° | 424.3 | 426.5 | 431.4 | 440.4 | 452.5 | 468.1 | 482.7 | 486.0 | 497.5 | 508.4 | 514.6 |
| 12.5° | 420.5 | 422.5 | 427.6 | 437.7 | 452.7 | 471.0 | 491.2 | 496.0 | 512.9 | 528.8 | 537.5 |
| 15° | 426.1 | 426.5 | 432.1 | 441.6 | 456.5 | 478.2 | 505.2 | 511.0 | 532.3 | 553.1 | 563.8 |
| 17.5° | 447.6 | 445.8 | 448.7 | 452.9 | 464.7 | 487.6 | 520.0 | 528.7 | 557.1 | 581.5 | 591.6 |
| 20° | 501.4 | 501.4 | 494.8 | 483.3 | 483.5 | 502.1 | 540.0 | 549.8 | 584.5 | 612.8 | 622.0 |
| 22.5° | 593.4 | 591.6 | 578.6 | 550.4 | 524.4 | 527.3 | 564.3 | 577.1 | 617.6 | 647.7 | 650.8 |
| 25° | 704.1 | 701.9 | 681.7 | 641.9 | 597.0 | 568.1 | 597.4 | 612.0 | 656.9 | 683.7 | 677.3 |
| 27.5° | 821.2 | 819.5 | 799.5 | 750.1 | 686.2 | 633.0 | 636.8 | 650.6 | 697.1 | 723.4 | 703.2 |
| 30° | 934.7 | 935.3 | 915.5 | 864.8 | 792.4 | 715.7 | 686.7 | 694.8 | 736.1 | 762.8 | 734.0 |
| 32.5° | 1042.7 | 1043.4 | 1026.4 | 969.6 | 902.1 | 811.9 | 755.9 | 753.8 | 781.5 | 807.7 | 774.7 |
| 35° | 1138.9 | 1140.9 | 1129.1 | 1085.2 | 1013.5 | 919.2 | 845.6 | 840.6 | 845.8 | 875.6 | 837.2 |
| 37.5° | 1231.7 | 1232.8 | 1224.1 | 1187.0 | 1127.0 | 1036.9 | 958.9 | 951.9 | 940.7 | 963.5 | 919.5 |
| 40° | 1333.3 | 1330.4 | 1320.3 | 1286.7 | 1235.1 | 1166.9 | 1080.7 | 1068.4 | 1049.0 | 1069.4 | 1027.9 |
| 42.5° | 1427.8 | 1424.5 | 1426.3 | 1388.3 | 1344.9 | 1300.6 | 1222.7 | 1201.5 | 1190.2 | 1213.6 | 1160.8 |
| 45° | 1546.0 | 1544.2 | 1550.0 | 1516.9 | 1481.8 | 1449.8 | 1385.4 | 1362.3 | 1357.4 | 1384.8 | 1321.6 |
| 47.5° | 1662.5 | 1666.8 | 1684.6 | 1670.6 | 1656.4 | 1628.2 | 1557.6 | 1547.3 | 1550.4 | 1583.6 | 1491.2 |
| 50° | 1759.8 | 1764.7 | 1813.7 | 1829.8 | 1850.4 | 1833.9 | 1763.2 | 1756.9 | 1769.0 | 1798.9 | 1673.7 |
| 52.5° | 1830.0 | 1840.3 | 1901.1 | 1975.4 | 2050.4 | 2061.5 | 1991.1 | 1985.3 | 2001.6 | 2006.2 | 1814.7 |
| 55° | 1878.8 | 1887.9 | 1956.8 | 2092.8 | 2245.4 | 2293.4 | 2249.6 | 2227.3 | 2224.3 | 2178.7 | 1963.0 |
| 57.5° | 1887.5 | 1886.6 | 1985.7 | 2168.7 | 2398.3 | 2522.2 | 2494.5 | 2472.6 | 2409.6 | 2338.2 | 2133.0 |
| 60° | 1838.7 | 1844.3 | 1959.3 | 2195.0 | 2494.3 | 2695.2 | 2697.4 | 2669.0 | 2570.8 | 2493.2 | 2297.8 |
| 62.5° | 1688.5 | 1711.2 | 1827.4 | 2126.1 | 2493.2 | 2765.0 | 2846.1 | 2824.4 | 2707.0 | 2620.2 | 2465.0 |
| 65° | 1444.9 | 1453.0 | 1563.8 | 1889.8 | 2324.7 | 2735.8 | 2979.9 | 2971.9 | 2829.8 | 2743.5 | 2550.8 |
| 67.5° | 1055.2 | 1037.7 | 1154.1 | 1488.1 | 1968.2 | 2565.6 | 3076.0 | 3086.1 | 2924.4 | 2768.8 | 2459.4 |
| 68° | 962.9 | 968.2 | 1058.8 | 1388.8 | 1874.8 | 2505.5 | 3082.3 | 3097.9 | 2933.8 | 2752.4 | 2409.4 |
| 70° | 574.0 | 584.0 | 664.8 | 956.2 | 1426.3 | 2165.3 | 3013.9 | 3049.5 | 2877.7 | 2581.9 | 2084.1 |
| 72.5° | 146.5 | 158.5 | 234.9 | 428.0 | 814.6 | 1525.6 | 2544.2 | 2604.4 | 2498.6 | 2094.6 | 1406.9 |
| 75° | 60.3 | 63.3 | 83.9 | 141.0 | 303.5 | 687.3 | 1677.0 | 1805.7 | 1732.1 | 1254.0 | 635.8 |
| 77.5° | 41.6 | 43.8 | 53.9 | 78.2 | 131.3 | 233.0 | 822.2 | 915.2 | 824.4 | 428.0 | 138.7 |
| 80° | 30.0 | 31.7 | 38.6 | 52.1 | 75.5 | 83.2 | 268.0 | 309.8 | 246.1 | 93.9 | 34.4 |
| 82.5° | 17.9 | 19.2 | 28.8 | 37.1 | 45.9 | 39.8 | 66.7 | 75.6 | 71.3 | 46.7 | 15.4 |
| 85° | 8.8 | 10.3 | 19.4 | 26.5 | 24.8 | 16.7 | 20.4 | 22.6 | 28.0 | 28.4 | 8.3 |
| 87.5° | 0.6 | 1.1 | 11.4 | 15.9 | 6.9 | 3.8 | 6.0 | 7.3 | 10.0 | 14.1 | 3.4 |
| 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-SA1B-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 | 482.7 |
| 2.5° | 484.0 | 484.3 | 482.9 | 482.4 | 482.7 | 480.4 | 479.5 | 479.8 | 479.8 | 480.4 | 479.5 |
| 5° | 488.9 | 488.9 | 486.5 | 483.5 | 481.8 | 477.3 | 474.4 | 473.7 | 473.1 | 472.8 | 472.0 |
| 7.5° | 499.2 | 498.1 | 494.1 | 487.4 | 481.6 | 472.0 | 464.7 | 460.8 | 458.9 | 458.1 | 457.6 |
| 10° | 516.0 | 513.8 | 507.1 | 494.7 | 481.4 | 464.3 | 448.4 | 437.0 | 427.6 | 423.8 | 421.4 |
| 12.5° | 538.4 | 535.4 | 524.0 | 503.3 | 480.0 | 448.5 | 414.0 | 380.7 | 349.8 | 337.1 | 330.8 |
| 15° | 564.3 | 560.0 | 542.1 | 510.6 | 472.2 | 413.0 | 337.9 | 279.7 | 236.9 | 220.7 | 213.8 |
| 17.5° | 590.7 | 584.9 | 557.8 | 515.2 | 448.5 | 339.5 | 237.1 | 179.0 | 150.4 | 142.7 | 140.0 |
| 20° | 617.2 | 608.8 | 571.5 | 511.7 | 395.2 | 244.7 | 156.4 | 130.8 | 122.6 | 120.3 | 119.5 |
| 22.5° | 642.4 | 629.3 | 583.8 | 498.3 | 312.9 | 164.2 | 123.7 | 115.6 | 113.0 | 111.6 | 111.2 |
| 25° | 664.3 | 646.0 | 594.5 | 456.8 | 221.5 | 124.1 | 111.4 | 108.7 | 105.3 | 102.7 | 102.9 |
| 27.5° | 684.8 | 662.7 | 601.0 | 388.5 | 147.7 | 106.0 | 103.1 | 99.5 | 93.2 | 89.5 | 89.5 |
| 30° | 709.6 | 685.0 | 605.9 | 298.9 | 108.7 | 93.7 | 91.5 | 85.9 | 77.2 | 72.4 | 72.4 |
| 32.5° | 746.8 | 718.8 | 602.8 | 209.8 | 90.1 | 82.4 | 77.0 | 69.3 | 59.9 | 55.3 | 55.1 |
| 35° | 803.9 | 771.0 | 580.9 | 137.5 | 79.6 | 71.6 | 63.0 | 53.6 | 45.4 | 41.5 | 41.3 |
| 37.5° | 880.8 | 841.0 | 531.7 | 98.4 | 71.3 | 61.7 | 51.3 | 40.9 | 34.7 | 32.2 | 32.0 |
| 40° | 980.5 | 922.2 | 461.4 | 79.7 | 63.6 | 52.1 | 39.6 | 31.7 | 27.5 | 25.5 | 25.7 |
| 42.5° | 1100.2 | 1009.2 | 377.1 | 68.7 | 56.1 | 42.9 | 30.9 | 25.0 | 22.3 | 21.0 | 20.6 |
| 45° | 1233.1 | 1095.1 | 288.7 | 61.3 | 48.6 | 34.6 | 24.2 | 19.7 | 17.7 | 16.9 | 16.9 |
| 47.5° | 1379.2 | 1178.7 | 211.3 | 54.8 | 40.5 | 26.7 | 19.4 | 16.1 | 14.4 | 13.8 | 13.6 |
| 50° | 1512.0 | 1236.7 | 152.3 | 47.8 | 33.3 | 21.1 | 15.7 | 13.4 | 12.3 | 11.6 | 11.6 |
| 52.5° | 1622.6 | 1255.0 | 112.2 | 40.3 | 26.9 | 16.9 | 13.0 | 11.6 | 10.3 | 9.8 | 9.8 |
| 55° | 1720.0 | 1247.4 | 83.4 | 33.3 | 21.7 | 13.8 | 11.2 | 9.8 | 8.8 | 8.3 | 8.3 |
| 57.5° | 1813.4 | 1223.2 | 62.2 | 27.1 | 17.5 | 11.2 | 9.4 | 8.3 | 7.3 | 6.9 | 6.9 |
| 60° | 1889.6 | 1182.9 | 46.3 | 21.9 | 14.1 | 9.0 | 7.9 | 6.7 | 6.0 | 5.4 | 5.4 |
| 62.5° | 1951.5 | 1138.4 | 34.0 | 18.1 | 11.2 | 7.1 | 6.1 | 5.6 | 4.4 | 3.8 | 3.8 |
| 65° | 1951.9 | 1064.4 | 25.5 | 15.0 | 8.7 | 5.6 | 4.6 | 4.4 | 2.9 | 2.3 | 2.1 |
| 67.5° | 1810.6 | 917.7 | 19.6 | 12.9 | 6.7 | 4.2 | 3.4 | 3.6 | 1.5 | 0.9 | 0.7 |
| 68° | 1759.4 | 880.4 | 18.4 | 12.7 | 6.3 | 4.0 | 3.3 | 3.6 | 1.3 | 0.7 | 0.6 |
| 70° | 1483.3 | 700.3 | 14.8 | 12.3 | 5.6 | 3.1 | 2.7 | 3.6 | 1.1 | 0.6 | 0.4 |
| 72.5° | 948.8 | 406.4 | 11.0 | 9.8 | 4.2 | 2.3 | 1.8 | 3.3 | 1.1 | 0.4 | 0.2 |
| 75° | 403.8 | 126.0 | 7.5 | 6.9 | 2.5 | 1.8 | 1.1 | 2.1 | 0.7 | 0.2 | 0.0 |
| 77.5° | 85.1 | 28.4 | 4.4 | 4.2 | 1.8 | 1.1 | 0.7 | 0.6 | 0.2 | 0.0 | 0.0 |
| 80° | 21.9 | 8.3 | 2.3 | 2.1 | 0.9 | 0.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.9 | 3.3 | 1.3 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.4 | 2.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.0 | 0.6 | 0.2 | 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)