

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: P383065

Luminaire Tested: **GLEON-SA4A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18244.3 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

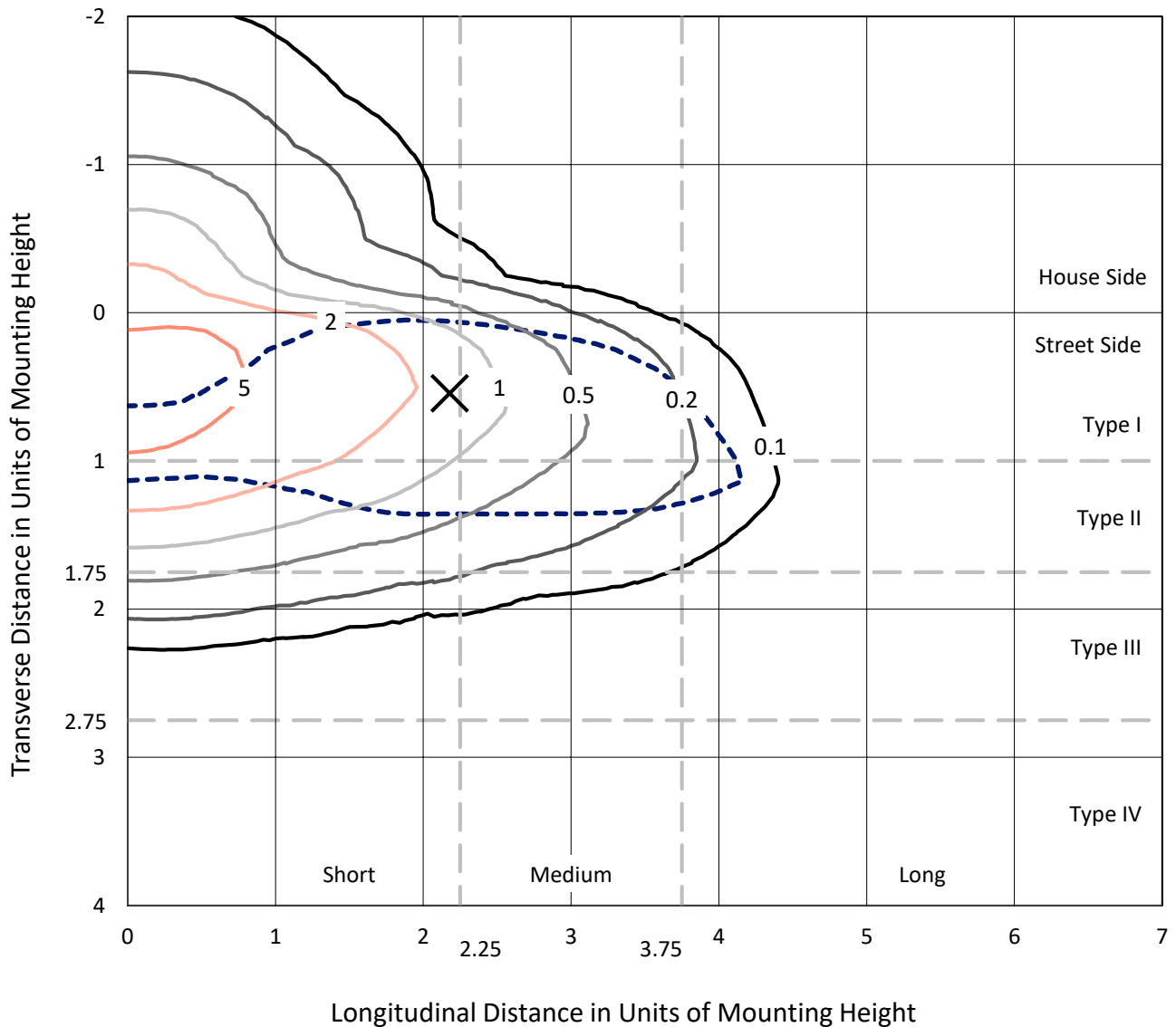
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

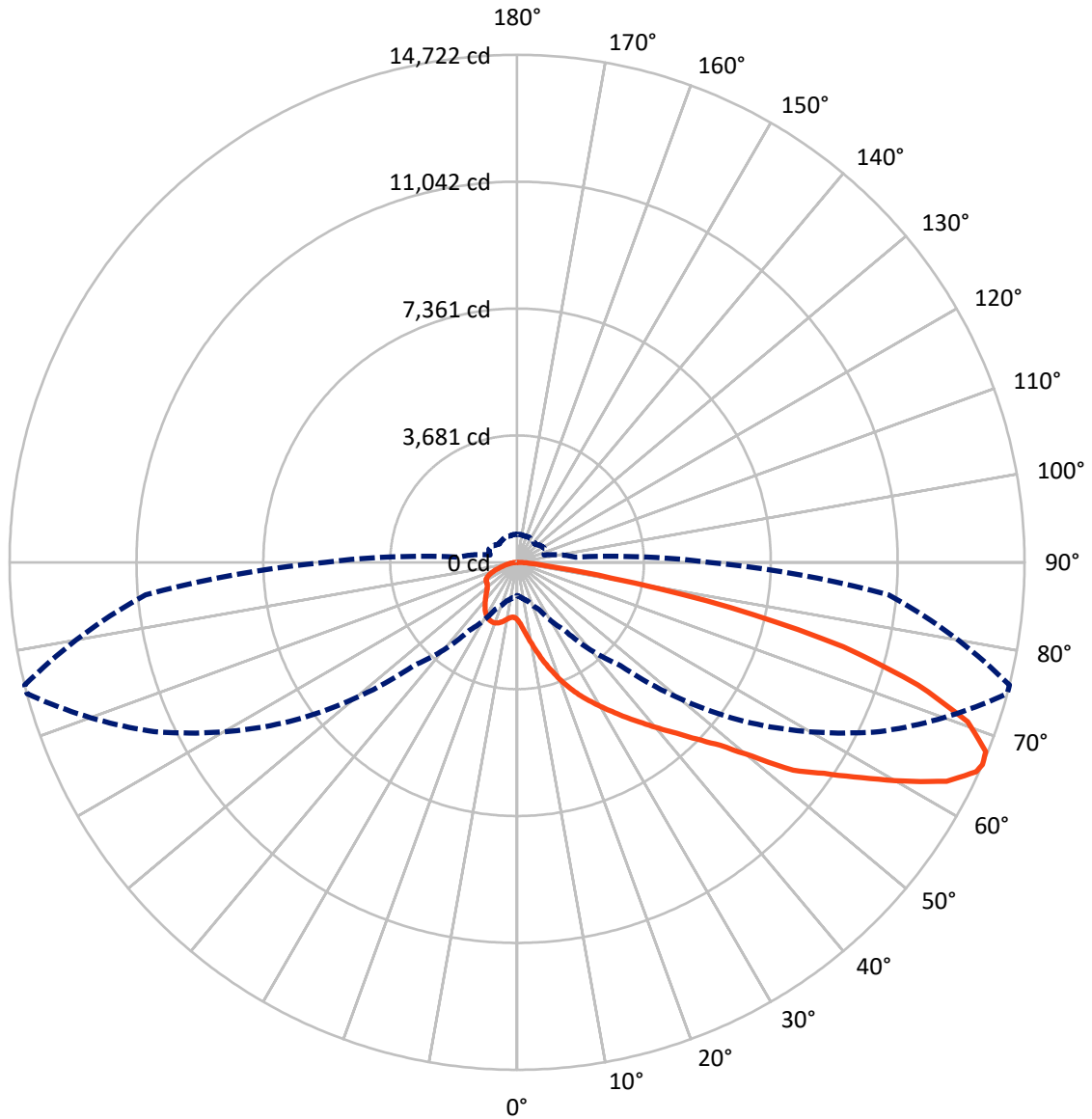
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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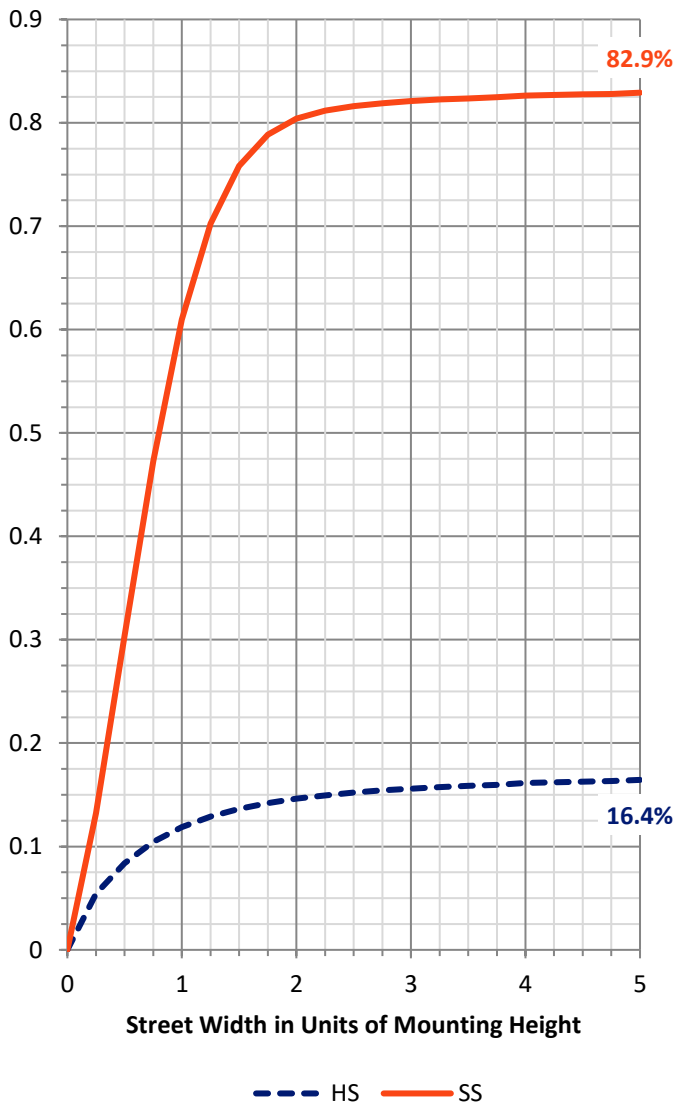
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3069.9 | 0.0 | 3069.9 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 15174.4 | 0.0 | 15174.4 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 18244.3 | 0.0 | 18244.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 201.5 | 1.1 |
| 10°-20° | 795.6 | 4.4 |
| 20°-30° | 1546.1 | 8.5 |
| 30°-40° | 2523.6 | 13.8 |
| 40°-50° | 3447.8 | 18.9 |
| 50°-60° | 4016.0 | 22.0 |
| 60°-70° | 3600.4 | 19.7 |
| 70°-80° | 1819.5 | 10.0 |
| 80°-90° | 293.8 | 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° | 18244.3 | 100.0 |
| 0°-180° | 18244.3 | 100.0 |

Coefficient of Utilization



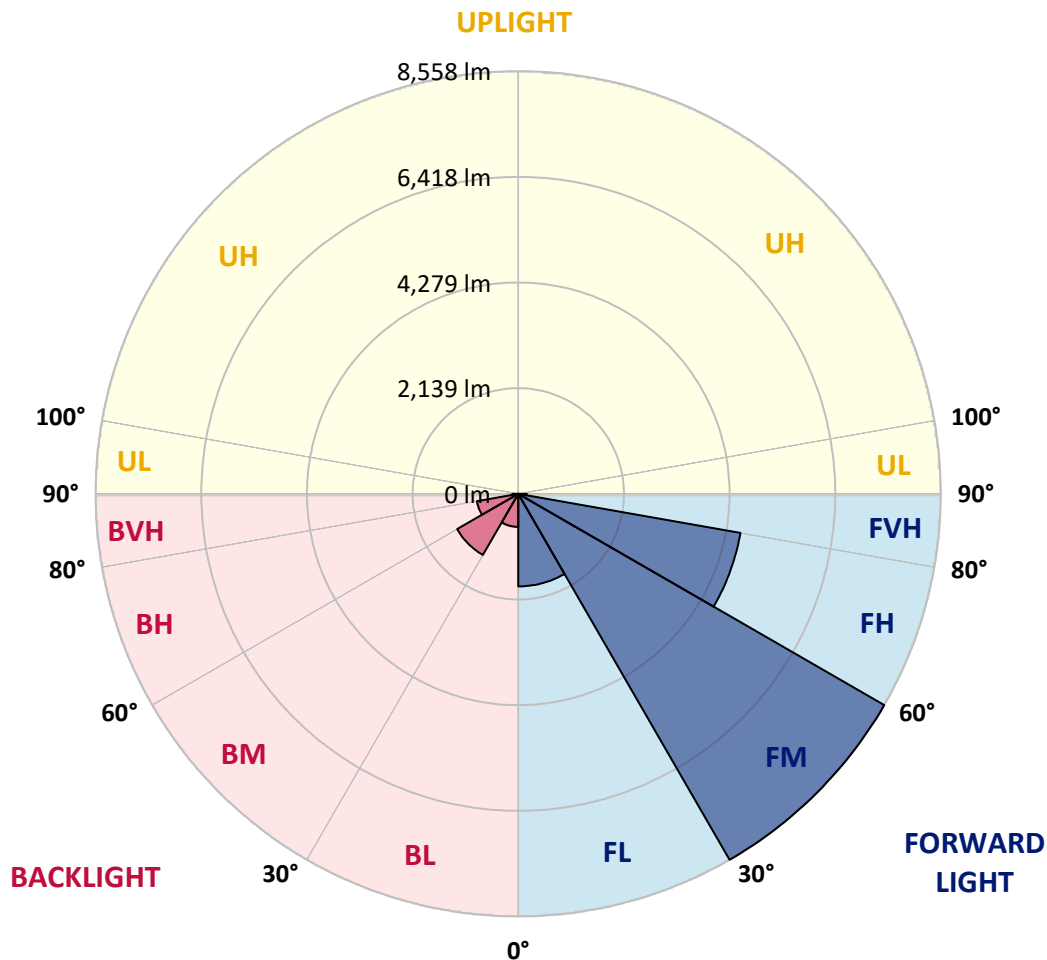
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1873.6 | 10.3 | | | |
| FM (30°-60°) | 8557.9 | 46.9 | | | |
| FH (60°-80°) | 4569.4 | 25.0 | | | G2/5000 |
| FVH (80°-90°) | 173.5 | 1.0 | | | G2/225 |
| BL (0°-30°) | 669.6 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1429.5 | 7.8 | B2/2500 | | |
| BH (60°-80°) | 850.5 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 120.3 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 |
| 2.5° | 2211.8 | 2178.3 | 2175.3 | 2126.4 | 2115.2 | 2021.6 | 1952.9 | 1881.1 | 1799.3 | 1783.2 | 1718.8 |
| 5° | 2841.0 | 2838.0 | 2795.2 | 2715.4 | 2652.8 | 2493.0 | 2335.0 | 2167.8 | 1984.5 | 1954.8 | 1809.8 |
| 7.5° | 3407.2 | 3402.2 | 3369.4 | 3283.3 | 3192.9 | 2996.5 | 2771.1 | 2514.7 | 2217.4 | 2173.4 | 1933.1 |
| 10° | 3837.0 | 3835.2 | 3824.0 | 3760.8 | 3684.1 | 3495.7 | 3246.7 | 2896.8 | 2488.1 | 2428.0 | 2087.3 |
| 12.5° | 4169.0 | 4172.8 | 4180.1 | 4157.9 | 4121.4 | 3960.9 | 3705.7 | 3301.9 | 2776.7 | 2717.2 | 2258.9 |
| 15° | 4393.8 | 4405.0 | 4443.4 | 4475.0 | 4494.2 | 4395.7 | 4148.6 | 3716.2 | 3100.0 | 3028.7 | 2449.0 |
| 17.5° | 4507.2 | 4519.6 | 4585.8 | 4681.2 | 4769.2 | 4759.3 | 4562.9 | 4111.4 | 3410.3 | 3341.6 | 2653.4 |
| 20° | 4605.1 | 4614.3 | 4688.7 | 4803.2 | 4958.7 | 5027.5 | 4917.3 | 4491.7 | 3750.3 | 3668.5 | 2870.2 |
| 22.5° | 4888.8 | 4900.5 | 4922.8 | 4987.9 | 5125.4 | 5251.7 | 5198.4 | 4851.6 | 4061.8 | 3985.7 | 3075.8 |
| 25° | 5436.2 | 5450.5 | 5402.2 | 5347.1 | 5373.1 | 5461.0 | 5471.0 | 5179.9 | 4377.7 | 4291.6 | 3296.9 |
| 27.5° | 6095.9 | 6116.4 | 6034.0 | 5892.1 | 5768.2 | 5734.1 | 5722.4 | 5448.6 | 4679.3 | 4579.7 | 3515.6 |
| 30° | 6741.9 | 6777.2 | 6670.1 | 6486.1 | 6258.8 | 6099.0 | 5980.7 | 5711.9 | 4976.7 | 4881.3 | 3721.8 |
| 32.5° | 7373.0 | 7358.8 | 7203.4 | 7023.7 | 6757.4 | 6557.3 | 6271.2 | 5994.3 | 5311.1 | 5201.5 | 3926.8 |
| 35° | 7805.3 | 7810.4 | 7666.0 | 7452.9 | 7199.0 | 7045.4 | 6660.2 | 6299.0 | 5652.4 | 5551.5 | 4159.7 |
| 37.5° | 8173.3 | 8150.4 | 7986.8 | 7788.0 | 7569.4 | 7503.7 | 7115.3 | 6634.8 | 6022.2 | 5912.0 | 4407.5 |
| 40° | 8295.9 | 8269.3 | 8162.1 | 8019.0 | 7843.8 | 7838.2 | 7617.7 | 7015.0 | 6440.3 | 6331.3 | 4686.8 |
| 42.5° | 8221.6 | 8187.6 | 8143.6 | 8104.6 | 8050.6 | 8075.4 | 8089.7 | 7461.0 | 6899.9 | 6777.8 | 5010.1 |
| 45° | 7947.2 | 7895.8 | 7926.8 | 8011.6 | 8128.7 | 8268.7 | 8515.8 | 7954.7 | 7414.6 | 7312.4 | 5389.8 |
| 47.5° | 7525.4 | 7478.9 | 7575.6 | 7757.1 | 8075.4 | 8429.7 | 8919.0 | 8499.7 | 8029.0 | 7927.4 | 5930.5 |
| 50° | 6932.0 | 6945.7 | 7083.8 | 7413.9 | 7895.1 | 8504.0 | 9415.7 | 9221.3 | 8922.1 | 8827.3 | 6668.2 |
| 52.5° | 5958.4 | 5960.9 | 6349.8 | 6891.8 | 7575.6 | 8465.6 | 9691.4 | 10143.5 | 10141.7 | 10027.1 | 7370.6 |
| 55° | 5054.1 | 5109.3 | 5417.0 | 6137.4 | 7057.8 | 8312.0 | 9884.0 | 10592.0 | 10942.5 | 10808.1 | 8025.3 |
| 57.5° | 4170.9 | 4203.0 | 4494.8 | 5218.3 | 6318.9 | 7902.6 | 10081.6 | 11130.2 | 11865.4 | 11780.5 | 8839.1 |
| 60° | 3166.2 | 3215.8 | 3517.4 | 4185.7 | 5373.7 | 7176.1 | 10100.1 | 11691.9 | 12968.5 | 12883.0 | 9747.7 |
| 62.5° | 2055.1 | 2140.6 | 2423.0 | 3049.2 | 4230.3 | 6131.2 | 9669.1 | 12059.3 | 14014.0 | 13983.6 | 10554.2 |
| 65° | 1181.1 | 1245.6 | 1441.9 | 1925.0 | 2918.5 | 4819.4 | 8644.0 | 11918.0 | 14657.5 | 14640.2 | 10855.8 |
| 66° | 965.0 | 1005.2 | 1155.8 | 1504.4 | 2408.1 | 4232.2 | 8048.2 | 11620.1 | 14721.3 | 14722.0 | 10821.1 |
| 67.5° | 771.8 | 789.7 | 857.2 | 1077.1 | 1777.0 | 3354.5 | 6983.4 | 10962.9 | 14642.1 | 14663.8 | 10597.6 |
| 70° | 638.6 | 647.9 | 668.9 | 722.2 | 969.9 | 2022.9 | 4956.9 | 9255.3 | 13846.2 | 13862.9 | 9724.8 |
| 72.5° | 572.9 | 578.5 | 586.6 | 594.0 | 684.4 | 1130.3 | 3027.5 | 7404.0 | 12139.7 | 12161.4 | 8395.0 |
| 75° | 519.1 | 522.1 | 520.9 | 521.5 | 574.2 | 720.4 | 1564.5 | 5527.9 | 9815.9 | 9772.5 | 6430.9 |
| 77.5° | 455.9 | 459.0 | 452.7 | 454.0 | 507.9 | 553.7 | 778.6 | 3869.8 | 6624.2 | 6318.2 | 3623.3 |
| 80° | 385.3 | 387.7 | 385.3 | 389.6 | 442.2 | 418.1 | 452.7 | 2177.1 | 2929.1 | 2770.4 | 1288.3 |
| 82.5° | 291.1 | 301.6 | 309.1 | 326.4 | 364.2 | 297.3 | 302.8 | 847.9 | 891.9 | 849.2 | 395.2 |
| 85° | 127.6 | 155.5 | 232.9 | 249.7 | 273.8 | 178.4 | 198.8 | 345.6 | 362.9 | 351.8 | 143.7 |
| 87.5° | 33.4 | 36.5 | 115.2 | 144.9 | 151.7 | 80.5 | 103.4 | 157.3 | 166.0 | 157.3 | 47.7 |
| 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-SA4A-735-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 | 1666.2 |
| 2.5° | 1684.7 | 1654.3 | 1599.8 | 1551.5 | 1515.0 | 1490.2 | 1465.4 | 1453.0 | 1445.7 | 1438.2 | 1439.4 |
| 5° | 1738.5 | 1677.3 | 1583.7 | 1517.5 | 1480.3 | 1456.8 | 1444.4 | 1439.4 | 1436.4 | 1428.9 | 1428.9 |
| 7.5° | 1819.7 | 1733.1 | 1604.2 | 1536.0 | 1507.0 | 1489.0 | 1481.5 | 1479.1 | 1475.4 | 1466.7 | 1467.9 |
| 10° | 1922.0 | 1800.5 | 1646.9 | 1580.6 | 1554.0 | 1534.2 | 1523.6 | 1519.9 | 1513.1 | 1503.2 | 1504.4 |
| 12.5° | 2042.0 | 1884.1 | 1703.2 | 1633.9 | 1601.7 | 1575.1 | 1557.7 | 1547.2 | 1535.5 | 1522.4 | 1523.1 |
| 15° | 2173.4 | 1975.2 | 1764.0 | 1681.6 | 1637.7 | 1600.5 | 1572.6 | 1554.7 | 1536.0 | 1519.9 | 1519.4 |
| 17.5° | 2306.5 | 2063.1 | 1810.5 | 1707.6 | 1648.2 | 1599.2 | 1561.5 | 1533.6 | 1510.7 | 1490.8 | 1489.0 |
| 20° | 2450.2 | 2142.5 | 1836.5 | 1705.1 | 1628.3 | 1570.1 | 1519.9 | 1485.3 | 1459.8 | 1440.1 | 1436.9 |
| 22.5° | 2596.4 | 2216.7 | 1840.8 | 1679.8 | 1584.4 | 1513.1 | 1460.5 | 1422.1 | 1396.1 | 1375.6 | 1368.2 |
| 25° | 2730.2 | 2274.4 | 1822.9 | 1630.9 | 1523.1 | 1446.2 | 1394.8 | 1355.8 | 1334.7 | 1310.6 | 1303.1 |
| 27.5° | 2852.2 | 2314.6 | 1786.9 | 1568.3 | 1454.3 | 1378.7 | 1330.4 | 1297.0 | 1274.1 | 1255.4 | 1249.3 |
| 30° | 2961.9 | 2336.3 | 1728.0 | 1493.9 | 1383.7 | 1315.0 | 1274.1 | 1251.2 | 1231.3 | 1207.8 | 1203.5 |
| 32.5° | 3065.9 | 2336.3 | 1652.5 | 1412.8 | 1313.7 | 1258.6 | 1234.4 | 1220.1 | 1197.9 | 1175.0 | 1168.7 |
| 35° | 3170.0 | 2322.1 | 1563.3 | 1327.9 | 1249.3 | 1218.3 | 1217.1 | 1200.4 | 1166.3 | 1135.3 | 1127.3 |
| 37.5° | 3279.6 | 2292.9 | 1463.0 | 1248.6 | 1196.7 | 1200.4 | 1210.9 | 1173.7 | 1125.4 | 1081.4 | 1069.7 |
| 40° | 3403.5 | 2252.7 | 1358.9 | 1179.9 | 1152.7 | 1192.3 | 1194.2 | 1135.3 | 1041.2 | 1000.9 | 990.4 |
| 42.5° | 3549.0 | 2212.4 | 1262.2 | 1119.3 | 1118.0 | 1168.2 | 1162.6 | 1052.3 | 995.9 | 975.5 | 969.9 |
| 45° | 3740.4 | 2189.5 | 1170.6 | 1061.6 | 1090.7 | 1129.1 | 1108.7 | 1006.4 | 983.0 | 971.1 | 966.2 |
| 47.5° | 4042.1 | 2201.2 | 1086.4 | 1015.8 | 1063.5 | 1090.1 | 1008.3 | 987.9 | 971.1 | 957.0 | 951.9 |
| 50° | 4419.9 | 2194.4 | 1018.3 | 984.2 | 1032.5 | 1049.2 | 963.1 | 963.8 | 955.1 | 939.0 | 931.5 |
| 52.5° | 4704.1 | 2141.2 | 974.3 | 966.2 | 1005.2 | 976.7 | 934.6 | 940.2 | 935.8 | 912.4 | 904.3 |
| 55° | 4978.6 | 2095.3 | 951.9 | 959.4 | 985.4 | 886.4 | 901.2 | 914.8 | 910.5 | 887.6 | 883.9 |
| 57.5° | 5319.8 | 2086.7 | 938.3 | 961.3 | 968.7 | 841.1 | 868.9 | 886.9 | 883.9 | 874.0 | 872.1 |
| 60° | 5737.9 | 2089.2 | 926.0 | 964.3 | 950.1 | 807.7 | 838.7 | 861.6 | 863.5 | 861.6 | 860.3 |
| 62.5° | 5967.7 | 2021.6 | 895.0 | 955.7 | 917.3 | 778.6 | 807.1 | 840.5 | 841.1 | 844.8 | 844.2 |
| 65° | 5772.6 | 1819.7 | 837.4 | 925.3 | 862.1 | 754.4 | 779.8 | 816.3 | 807.1 | 823.8 | 823.8 |
| 66° | 5583.0 | 1703.2 | 808.9 | 905.6 | 838.7 | 745.1 | 771.1 | 803.9 | 792.2 | 815.1 | 815.1 |
| 67.5° | 5196.0 | 1507.0 | 757.5 | 863.5 | 805.2 | 732.1 | 761.2 | 783.5 | 767.4 | 801.5 | 799.0 |
| 70° | 4488.7 | 1165.6 | 654.0 | 768.1 | 750.1 | 712.9 | 747.6 | 742.6 | 719.1 | 771.1 | 761.2 |
| 72.5° | 3784.4 | 885.7 | 525.2 | 643.0 | 666.4 | 688.8 | 728.4 | 690.6 | 660.8 | 697.4 | 675.7 |
| 75° | 2936.4 | 665.9 | 415.0 | 499.9 | 563.0 | 651.0 | 705.5 | 630.6 | 587.8 | 584.1 | 572.3 |
| 77.5° | 1587.5 | 457.1 | 328.9 | 381.6 | 447.2 | 603.9 | 690.0 | 566.1 | 501.7 | 486.8 | 477.5 |
| 80° | 628.7 | 297.3 | 239.0 | 289.2 | 312.8 | 535.7 | 652.8 | 491.2 | 413.7 | 398.9 | 384.6 |
| 82.5° | 259.5 | 175.9 | 154.3 | 193.9 | 203.7 | 458.3 | 585.9 | 402.6 | 319.6 | 442.2 | 469.5 |
| 85° | 111.5 | 96.6 | 91.7 | 100.3 | 115.2 | 321.5 | 466.4 | 307.2 | 345.0 | 307.8 | 244.6 |
| 87.5° | 33.4 | 40.9 | 39.0 | 38.4 | 42.1 | 76.8 | 248.4 | 170.9 | 253.3 | 96.0 | 71.8 |
| 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)