

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: P382714

Luminaire Tested: **GLEON-SA1A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.3 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

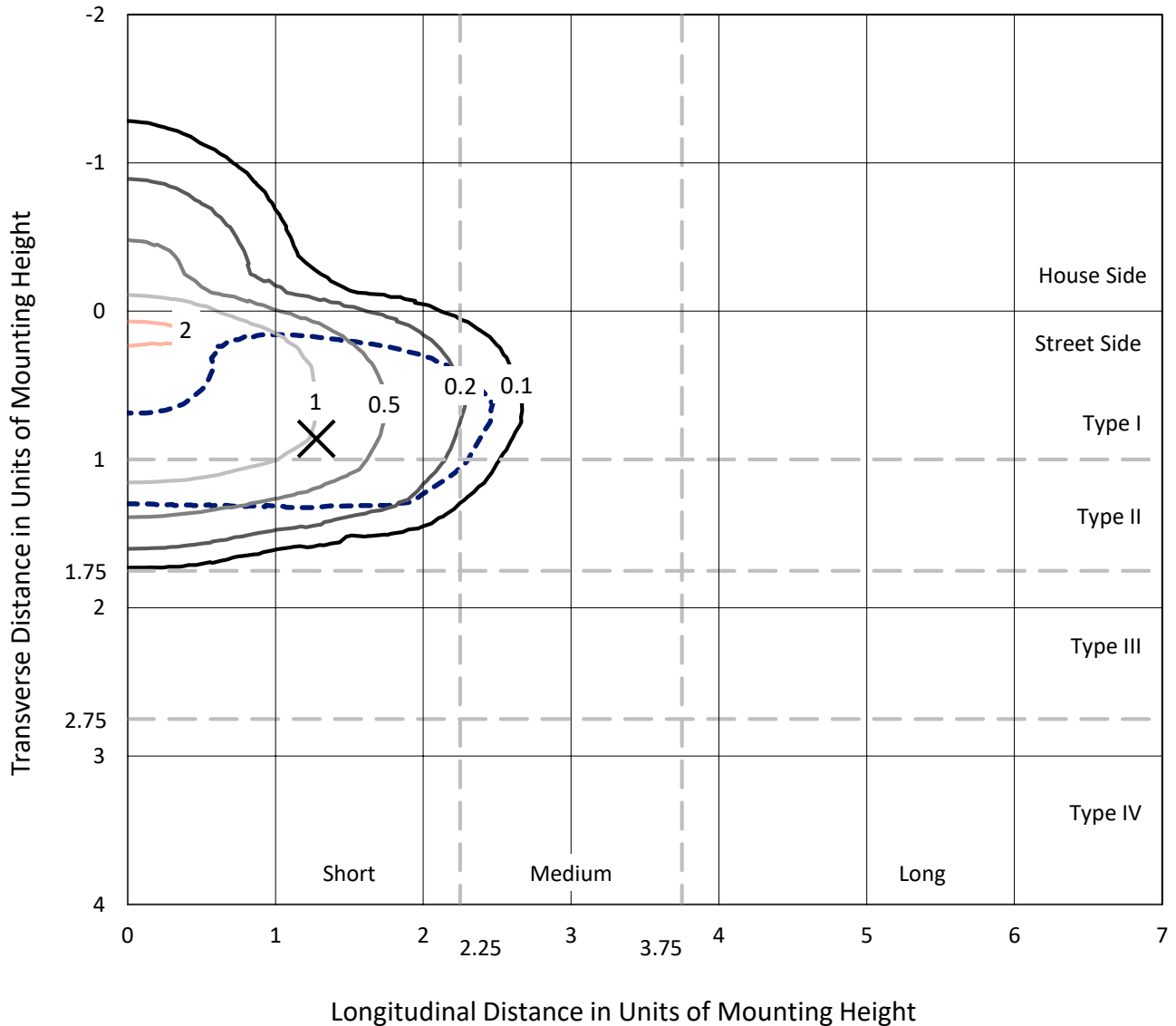
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382714
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Iso-Footcandle Lines of Horizontal Illumination

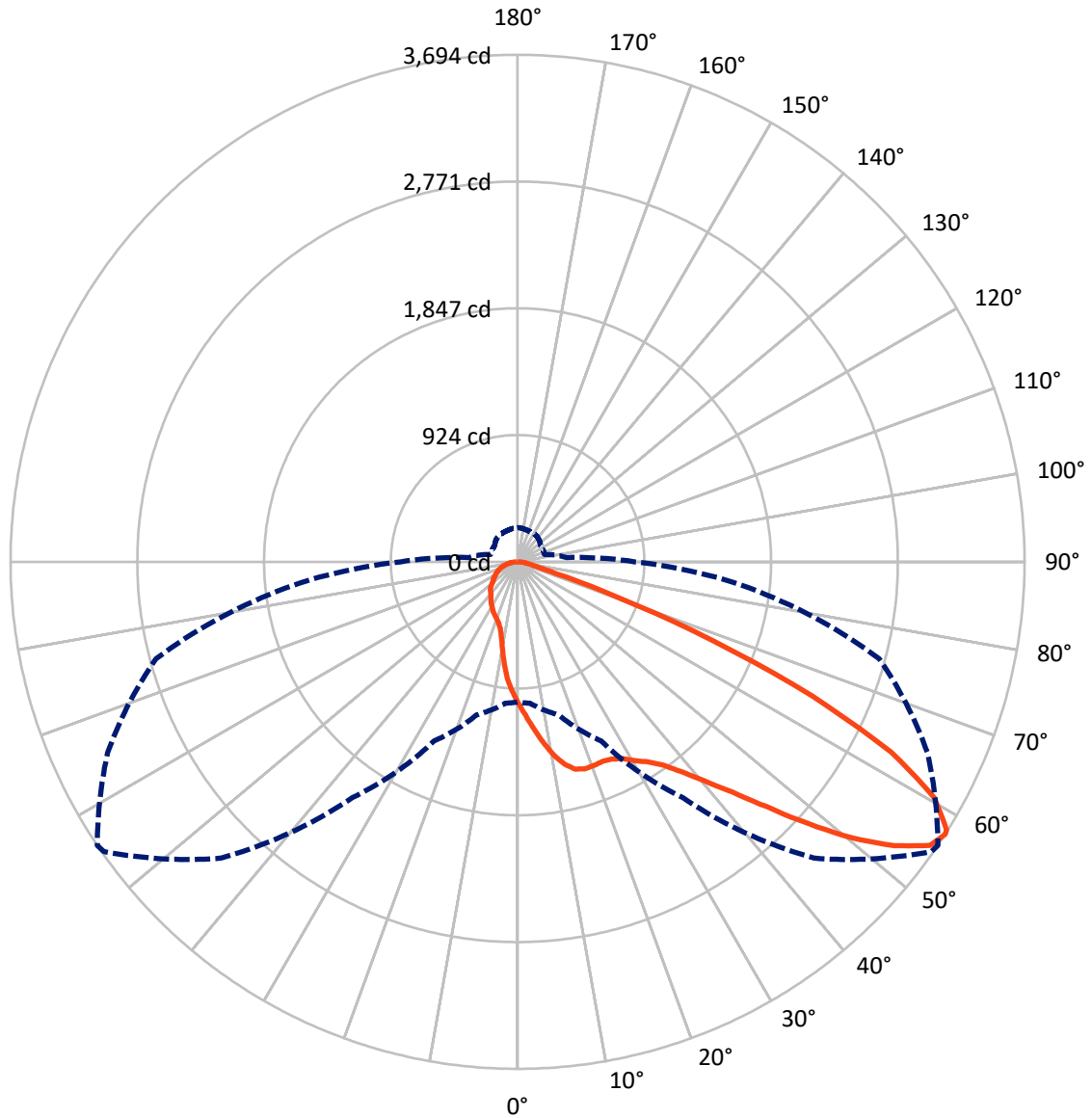
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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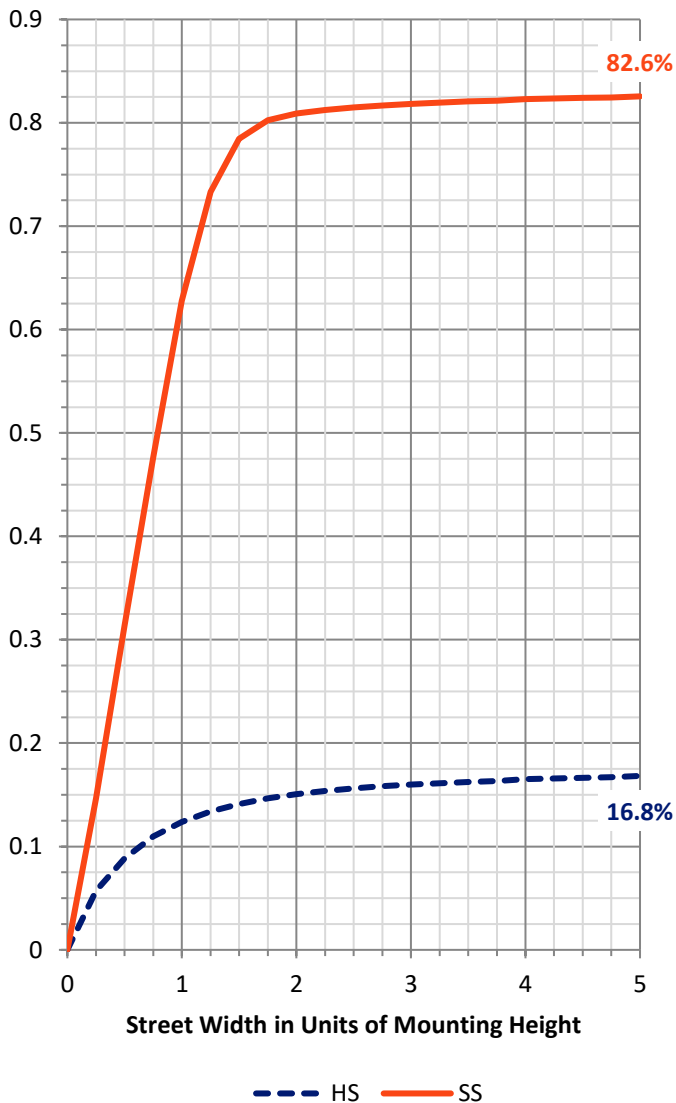
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 804.0 | 0.0 | 804.0 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 3860.2 | 0.0 | 3860.2 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 4664.3 | 0.0 | 4664.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.8 | 2.1 |
| 10°-20° | 279.4 | 6.0 |
| 20°-30° | 455.1 | 9.8 |
| 30°-40° | 680.3 | 14.6 |
| 40°-50° | 1031.9 | 22.1 |
| 50°-60° | 1156.6 | 24.8 |
| 60°-70° | 683.1 | 14.6 |
| 70°-80° | 223.8 | 4.8 |
| 80°-90° | 55.3 | 1.2 |
| 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° | 4664.3 | 100.0 |
| 0°-180° | 4664.3 | 100.0 |

Coefficient of Utilization



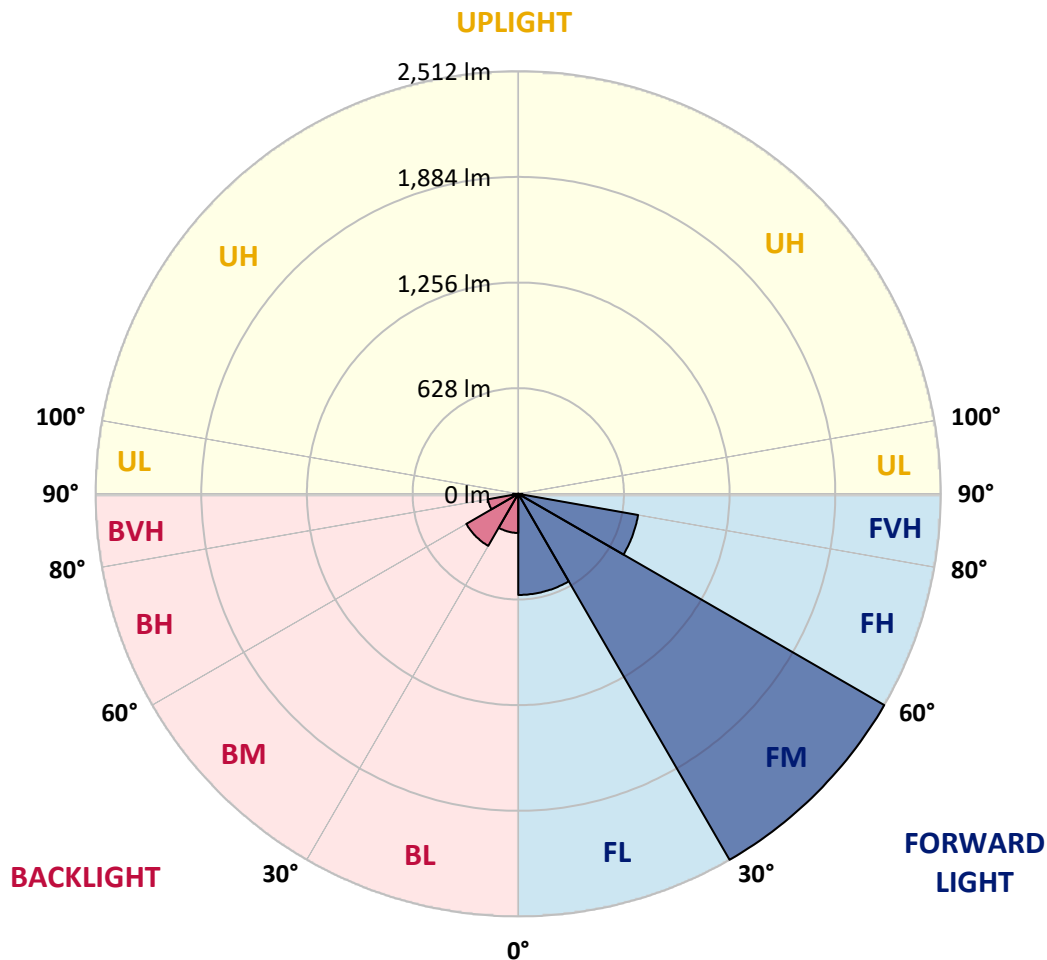
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 600.8 | 12.9 | | | |
| FM (30°-60°) | 2511.9 | 53.9 | | | |
| FH (60°-80°) | 723.2 | 15.5 | | | G1/1800 |
| FVH (80°-90°) | 24.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 232.5 | 5.0 | B1/500 | | |
| BM (30°-60°) | 356.9 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 183.7 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 |
| 2.5° | 1187.9 | 1198.8 | 1194.1 | 1177.4 | 1164.5 | 1146.5 | 1126.2 | 1120.1 | 1098.9 | 1074.9 | 1046.2 |
| 5° | 1376.0 | 1370.5 | 1362.7 | 1336.7 | 1309.3 | 1277.3 | 1226.8 | 1218.7 | 1171.2 | 1117.2 | 1060.2 |
| 7.5° | 1483.0 | 1482.6 | 1477.9 | 1462.7 | 1437.7 | 1396.0 | 1334.9 | 1325.5 | 1253.9 | 1166.9 | 1078.5 |
| 10° | 1467.5 | 1466.3 | 1474.1 | 1489.9 | 1497.5 | 1488.8 | 1437.4 | 1427.9 | 1339.9 | 1221.9 | 1099.6 |
| 12.5° | 1379.2 | 1379.8 | 1392.2 | 1425.5 | 1470.8 | 1525.3 | 1517.0 | 1512.4 | 1429.2 | 1284.1 | 1125.3 |
| 15° | 1310.4 | 1311.8 | 1321.6 | 1350.7 | 1404.2 | 1503.1 | 1565.5 | 1567.0 | 1515.5 | 1352.7 | 1155.2 |
| 17.5° | 1280.2 | 1283.3 | 1287.8 | 1308.2 | 1357.2 | 1458.7 | 1577.0 | 1585.6 | 1591.3 | 1423.9 | 1184.1 |
| 20° | 1289.9 | 1292.8 | 1294.0 | 1307.1 | 1347.3 | 1431.8 | 1568.9 | 1584.5 | 1649.3 | 1490.8 | 1213.0 |
| 22.5° | 1333.0 | 1334.7 | 1335.6 | 1338.9 | 1370.2 | 1439.4 | 1563.7 | 1580.0 | 1691.2 | 1551.0 | 1234.8 |
| 25° | 1404.5 | 1403.2 | 1398.1 | 1393.8 | 1414.7 | 1469.9 | 1575.8 | 1591.4 | 1725.4 | 1605.5 | 1249.0 |
| 27.5° | 1490.1 | 1488.5 | 1478.6 | 1466.7 | 1478.7 | 1517.3 | 1610.9 | 1623.3 | 1756.1 | 1656.5 | 1256.2 |
| 30° | 1592.9 | 1588.7 | 1569.9 | 1555.8 | 1560.4 | 1588.5 | 1668.8 | 1680.0 | 1803.3 | 1714.3 | 1263.3 |
| 32.5° | 1711.6 | 1707.2 | 1680.0 | 1656.7 | 1656.7 | 1680.0 | 1728.5 | 1737.7 | 1843.3 | 1779.7 | 1274.6 |
| 35° | 1860.4 | 1854.8 | 1819.5 | 1780.2 | 1769.2 | 1781.0 | 1809.7 | 1816.3 | 1915.5 | 1862.2 | 1295.3 |
| 37.5° | 2035.7 | 2028.2 | 1982.5 | 1930.0 | 1905.8 | 1905.1 | 1925.8 | 1939.2 | 2030.8 | 1970.3 | 1330.4 |
| 40° | 2211.6 | 2206.3 | 2166.4 | 2125.0 | 2077.5 | 2062.4 | 2094.2 | 2098.4 | 2181.4 | 2104.6 | 1375.3 |
| 42.5° | 2347.5 | 2346.6 | 2339.2 | 2344.6 | 2296.1 | 2265.2 | 2290.3 | 2293.7 | 2365.5 | 2250.1 | 1423.1 |
| 45° | 2419.3 | 2420.9 | 2456.7 | 2535.9 | 2553.8 | 2531.4 | 2543.7 | 2544.7 | 2575.7 | 2396.7 | 1466.8 |
| 47.5° | 2361.8 | 2370.1 | 2460.5 | 2637.7 | 2784.6 | 2859.2 | 2838.6 | 2850.5 | 2779.6 | 2522.7 | 1501.2 |
| 50° | 2137.5 | 2147.8 | 2301.7 | 2592.3 | 2892.4 | 3176.4 | 3165.7 | 3162.9 | 2944.2 | 2615.0 | 1519.7 |
| 52.5° | 1859.7 | 1867.8 | 1994.7 | 2356.4 | 2813.3 | 3351.7 | 3450.4 | 3436.2 | 3090.3 | 2684.2 | 1523.3 |
| 55° | 1436.7 | 1449.2 | 1570.9 | 1885.8 | 2493.7 | 3284.7 | 3659.7 | 3647.0 | 3223.5 | 2720.3 | 1519.1 |
| 57° | 1021.3 | 1034.6 | 1155.4 | 1439.2 | 2097.8 | 3052.8 | 3680.5 | 3694.0 | 3295.4 | 2726.5 | 1523.7 |
| 57.5° | 911.4 | 924.9 | 1044.6 | 1320.4 | 1974.3 | 2968.9 | 3662.6 | 3685.0 | 3308.5 | 2725.5 | 1526.3 |
| 60° | 458.9 | 464.1 | 540.4 | 737.0 | 1248.1 | 2400.2 | 3428.4 | 3486.2 | 3320.1 | 2678.4 | 1537.3 |
| 62.5° | 285.3 | 281.6 | 279.3 | 339.5 | 607.2 | 1591.7 | 2945.1 | 3056.5 | 3096.3 | 2564.2 | 1510.6 |
| 65° | 250.9 | 244.0 | 217.5 | 212.7 | 268.2 | 773.1 | 2217.8 | 2356.4 | 2617.7 | 2384.4 | 1446.8 |
| 67.5° | 235.6 | 228.9 | 199.1 | 181.1 | 181.3 | 306.5 | 1376.9 | 1533.0 | 2039.3 | 2080.3 | 1296.3 |
| 70° | 219.9 | 213.8 | 185.9 | 164.8 | 154.4 | 169.7 | 633.5 | 751.9 | 1329.3 | 1635.1 | 1083.4 |
| 72.5° | 199.7 | 195.5 | 169.1 | 147.3 | 136.3 | 127.2 | 242.5 | 286.5 | 769.6 | 1098.2 | 752.4 |
| 75° | 178.6 | 174.8 | 152.1 | 131.3 | 117.8 | 100.0 | 136.6 | 147.2 | 391.0 | 561.8 | 370.5 |
| 77.5° | 155.3 | 153.1 | 135.3 | 116.1 | 105.4 | 82.9 | 96.7 | 101.8 | 167.7 | 240.9 | 185.8 |
| 80° | 123.6 | 127.9 | 118.3 | 103.4 | 93.4 | 66.3 | 68.5 | 71.8 | 97.6 | 117.7 | 105.5 |
| 82.5° | 80.5 | 88.0 | 92.7 | 84.0 | 76.9 | 52.3 | 49.2 | 50.7 | 63.6 | 71.8 | 45.8 |
| 85° | 33.5 | 37.6 | 60.9 | 55.0 | 51.1 | 38.2 | 33.0 | 33.6 | 39.4 | 40.9 | 18.7 |
| 87.5° | 14.9 | 15.8 | 26.7 | 25.2 | 21.6 | 13.1 | 14.1 | 15.4 | 21.0 | 19.8 | 7.2 |
| 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-735-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 | 1034.6 |
| 2.5° | 1035.5 | 1022.0 | 999.0 | 973.5 | 952.6 | 935.9 | 919.2 | 907.6 | 894.1 | 886.9 | 883.2 |
| 5° | 1036.3 | 1009.9 | 961.3 | 911.4 | 866.9 | 826.2 | 787.3 | 757.5 | 729.7 | 714.6 | 710.4 |
| 7.5° | 1039.7 | 999.9 | 921.4 | 839.3 | 760.1 | 687.9 | 632.1 | 597.1 | 572.0 | 560.7 | 557.5 |
| 10° | 1042.4 | 988.2 | 872.0 | 750.5 | 642.8 | 569.5 | 526.2 | 506.7 | 498.0 | 496.6 | 495.1 |
| 12.5° | 1048.8 | 976.2 | 820.0 | 657.9 | 551.6 | 500.9 | 485.9 | 484.6 | 487.0 | 490.5 | 490.5 |
| 15° | 1058.9 | 964.3 | 760.8 | 578.3 | 493.5 | 475.7 | 478.8 | 485.9 | 492.4 | 497.9 | 498.7 |
| 17.5° | 1066.2 | 949.7 | 697.0 | 514.7 | 462.6 | 467.5 | 478.3 | 488.2 | 495.0 | 500.2 | 500.8 |
| 20° | 1071.6 | 927.2 | 628.8 | 466.1 | 444.8 | 459.7 | 473.3 | 482.2 | 486.8 | 492.1 | 492.9 |
| 22.5° | 1068.9 | 896.8 | 568.4 | 431.3 | 430.4 | 448.5 | 461.5 | 472.1 | 468.6 | 463.4 | 466.8 |
| 25° | 1055.7 | 855.2 | 506.2 | 405.4 | 415.2 | 433.4 | 449.5 | 442.4 | 430.6 | 428.3 | 429.6 |
| 27.5° | 1032.2 | 802.0 | 448.6 | 381.4 | 397.5 | 419.5 | 418.5 | 411.5 | 407.3 | 404.4 | 406.2 |
| 30° | 1007.1 | 744.2 | 398.3 | 360.3 | 377.9 | 396.1 | 392.4 | 392.3 | 388.1 | 383.4 | 385.7 |
| 32.5° | 982.3 | 686.2 | 358.5 | 343.0 | 363.2 | 365.6 | 373.6 | 376.1 | 367.9 | 358.1 | 357.4 |
| 35° | 960.6 | 631.4 | 328.1 | 327.3 | 345.4 | 345.8 | 357.4 | 354.1 | 333.8 | 323.6 | 323.6 |
| 37.5° | 944.5 | 576.7 | 305.1 | 313.2 | 322.0 | 330.3 | 336.3 | 322.3 | 319.0 | 313.4 | 313.2 |
| 40° | 937.4 | 528.7 | 290.6 | 302.5 | 305.5 | 316.1 | 300.9 | 306.3 | 308.0 | 305.1 | 305.1 |
| 42.5° | 930.1 | 486.8 | 278.1 | 294.3 | 293.8 | 292.4 | 284.7 | 291.8 | 298.2 | 298.3 | 297.8 |
| 45° | 922.7 | 450.8 | 267.1 | 276.9 | 283.6 | 268.0 | 269.5 | 276.9 | 286.0 | 289.2 | 289.2 |
| 47.5° | 914.5 | 422.2 | 256.9 | 258.4 | 268.8 | 258.4 | 257.3 | 263.1 | 273.6 | 278.7 | 279.8 |
| 50° | 896.5 | 396.6 | 245.4 | 242.2 | 245.1 | 248.6 | 249.6 | 252.3 | 264.0 | 272.2 | 274.1 |
| 52.5° | 871.6 | 373.6 | 230.7 | 227.3 | 227.3 | 240.6 | 245.1 | 245.9 | 255.8 | 265.6 | 267.5 |
| 55° | 851.0 | 359.0 | 215.5 | 214.8 | 214.2 | 232.1 | 239.8 | 241.1 | 248.0 | 255.7 | 256.6 |
| 57° | 852.5 | 357.9 | 203.7 | 204.4 | 204.2 | 223.5 | 234.8 | 237.5 | 241.1 | 247.7 | 248.8 |
| 57.5° | 853.2 | 358.7 | 201.2 | 201.5 | 201.3 | 221.1 | 233.4 | 236.4 | 239.1 | 246.0 | 247.1 |
| 60° | 865.2 | 360.8 | 190.8 | 187.2 | 188.0 | 208.2 | 225.2 | 229.1 | 230.8 | 240.0 | 241.4 |
| 62.5° | 847.4 | 351.6 | 182.4 | 173.9 | 173.9 | 194.8 | 213.8 | 219.9 | 222.6 | 235.0 | 237.4 |
| 65° | 795.8 | 325.4 | 172.6 | 158.8 | 160.4 | 181.3 | 200.2 | 210.2 | 214.3 | 229.7 | 232.2 |
| 67.5° | 716.2 | 295.1 | 162.2 | 145.4 | 147.0 | 167.2 | 186.1 | 196.8 | 203.4 | 223.9 | 226.0 |
| 70° | 612.5 | 258.0 | 148.1 | 131.2 | 133.0 | 151.8 | 169.4 | 181.7 | 191.4 | 218.4 | 219.1 |
| 72.5° | 451.5 | 211.6 | 128.4 | 115.4 | 117.5 | 133.9 | 152.6 | 166.7 | 179.9 | 204.8 | 204.6 |
| 75° | 268.5 | 165.4 | 106.6 | 99.6 | 101.0 | 116.3 | 137.4 | 154.5 | 174.2 | 199.5 | 202.6 |
| 77.5° | 162.8 | 124.5 | 86.9 | 83.4 | 85.1 | 100.7 | 126.5 | 144.8 | 171.9 | 188.2 | 187.2 |
| 80° | 98.5 | 89.0 | 69.4 | 67.2 | 68.9 | 86.1 | 117.0 | 137.4 | 150.2 | 160.8 | 160.8 |
| 82.5° | 51.4 | 54.3 | 51.0 | 49.2 | 51.6 | 69.9 | 106.5 | 119.9 | 132.7 | 113.9 | 106.5 |
| 85° | 21.0 | 28.4 | 30.9 | 30.7 | 32.2 | 48.4 | 91.9 | 102.6 | 85.6 | 81.2 | 83.2 |
| 87.5° | 7.1 | 12.0 | 15.1 | 12.9 | 13.6 | 30.5 | 63.6 | 49.6 | 58.9 | 41.1 | 38.9 |
| 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)