

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: P382798

Luminaire Tested: **GLEON-SA1D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382798
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-SA1D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7764.5 lumens
Efficiency: N/A
Efficacy: 115.9 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

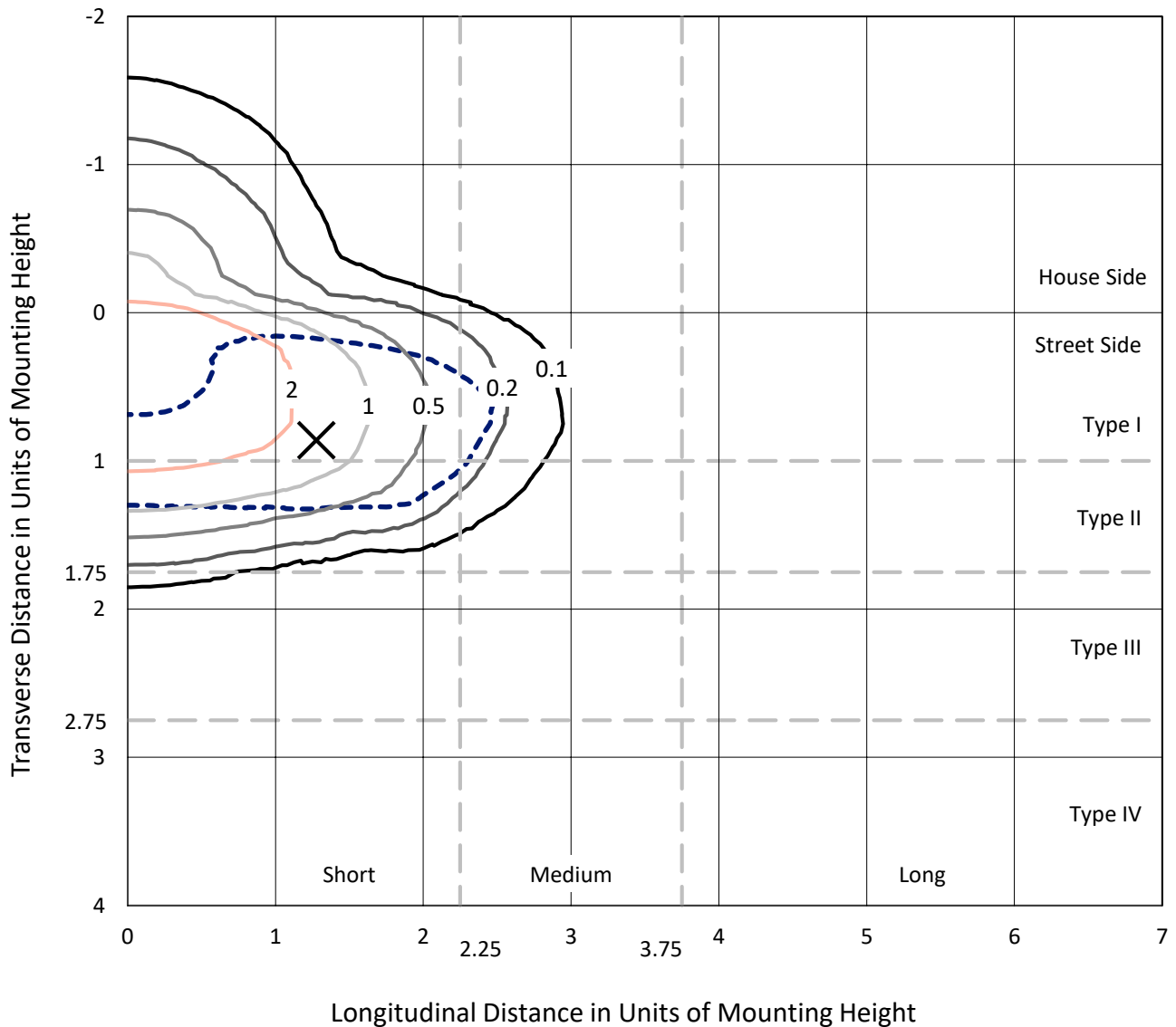
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382798
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

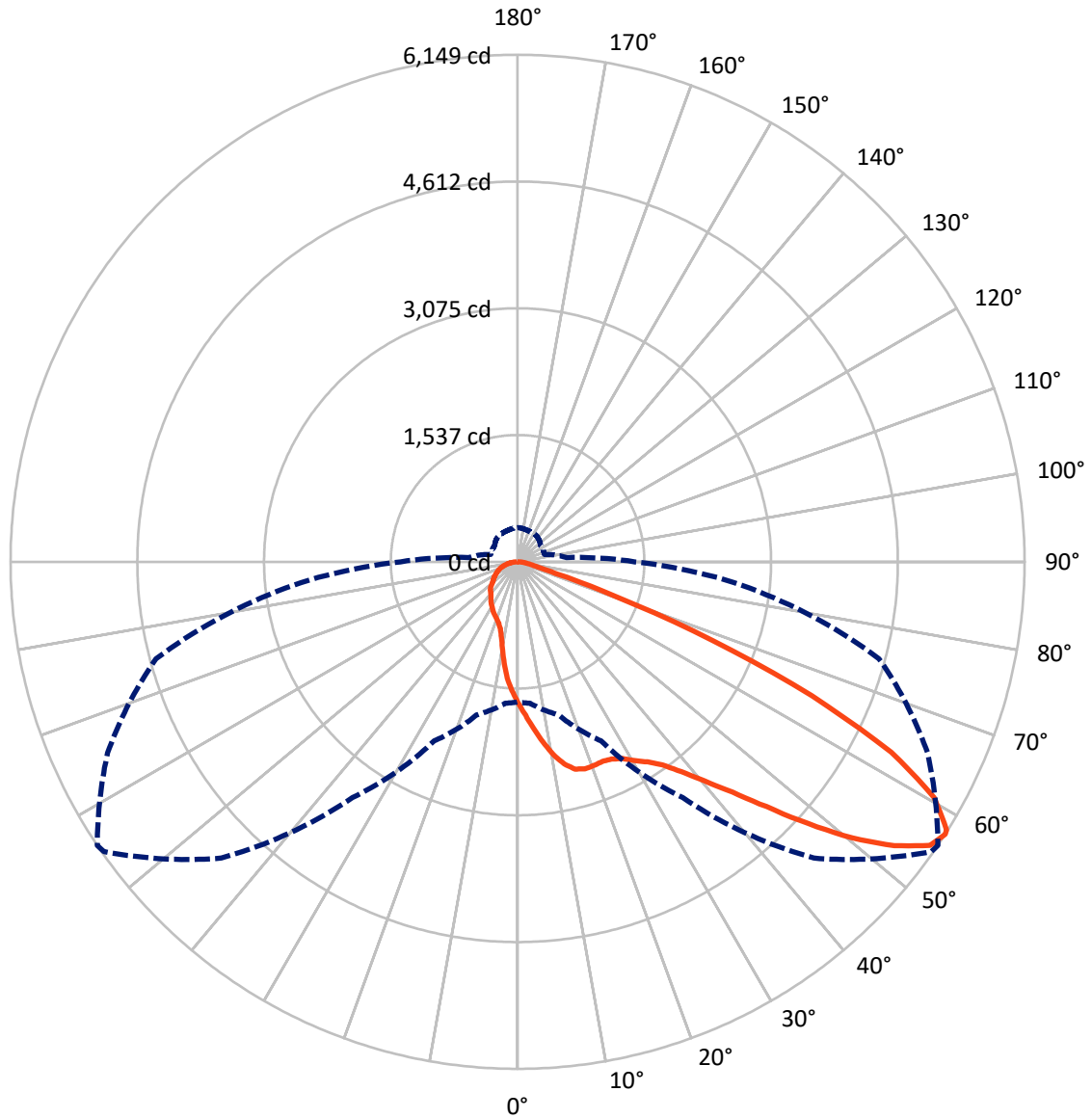
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P382798
CATALOG NUMBER: GLEON-SA1D-735-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P382798
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL

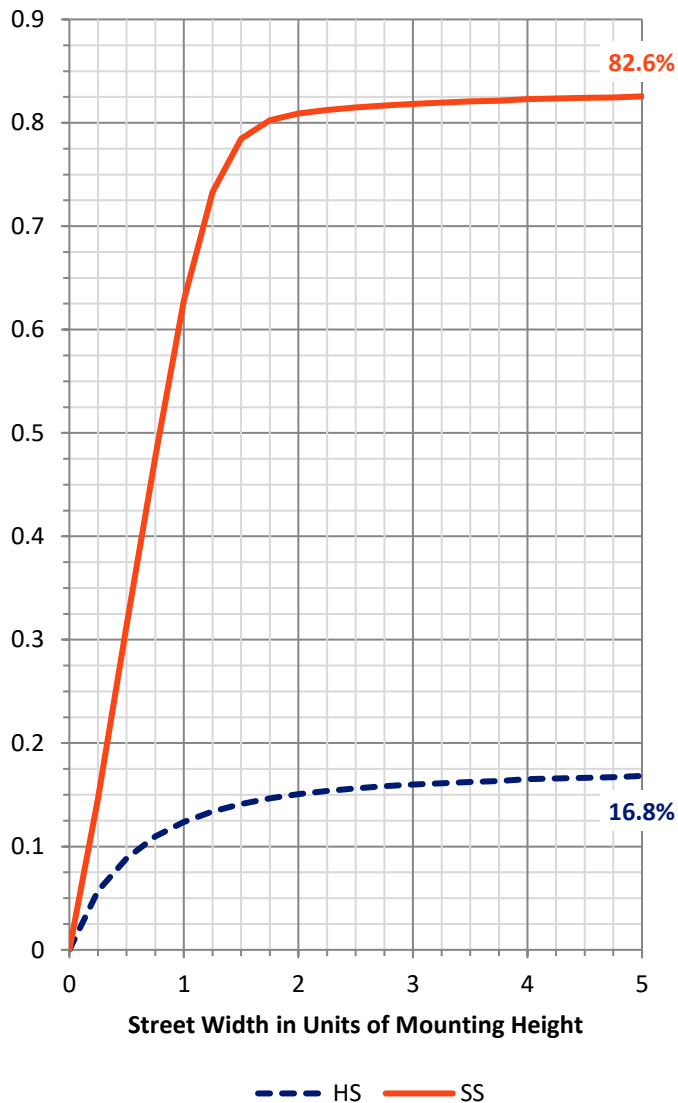
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1338.4 | 0.0 | 1338.4 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 6426.0 | 0.0 | 6426.0 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 7764.5 | 0.0 | 7764.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.5 | 2.1 |
| 10°-20° | 465.1 | 6.0 |
| 20°-30° | 757.6 | 9.8 |
| 30°-40° | 1132.5 | 14.6 |
| 40°-50° | 1717.7 | 22.1 |
| 50°-60° | 1925.3 | 24.8 |
| 60°-70° | 1137.1 | 14.6 |
| 70°-80° | 372.6 | 4.8 |
| 80°-90° | 92.1 | 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° | 7764.5 | 100.0 |
| 0°-180° | 7764.5 | 100.0 |

Coefficient of Utilization



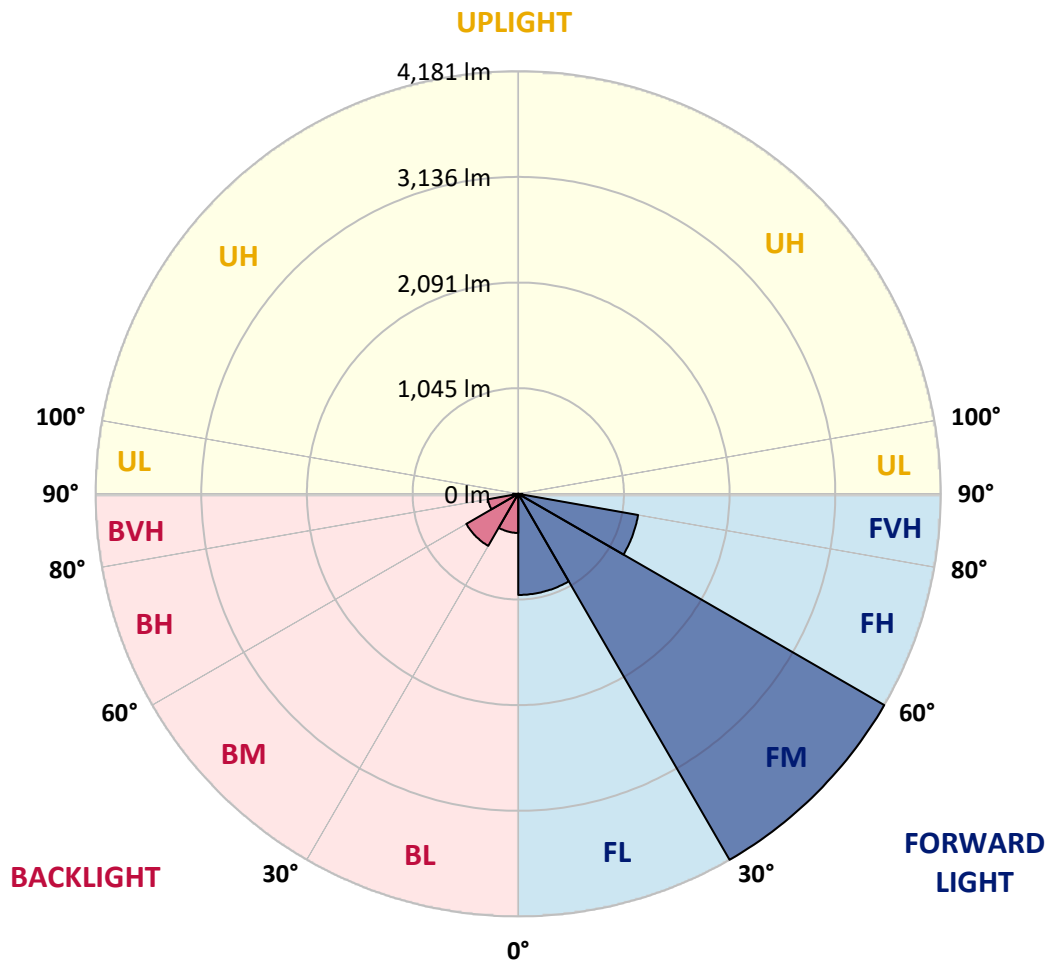
REPORT NUMBER: P382798
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1000.2 | 12.9 | | | |
| FM (30°-60°) | 4181.4 | 53.9 | | | |
| FH (60°-80°) | 1203.9 | 15.5 | | | G1/1800 |
| FVH (80°-90°) | 40.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 387.0 | 5.0 | B1/500 | | |
| BM (30°-60°) | 594.1 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 305.8 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 51.5 | 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





REPORT NUMBER: P382798

CATALOG NUMBER: GLEON-SA1D-735-U-AFL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 |
| 2.5° | 1977.5 | 1995.7 | 1987.6 | 1959.9 | 1938.6 | 1908.4 | 1874.8 | 1864.7 | 1829.2 | 1789.4 | 1741.6 |
| 5° | 2290.5 | 2281.5 | 2268.4 | 2225.2 | 2179.5 | 2126.4 | 2042.1 | 2028.7 | 1949.7 | 1859.8 | 1764.8 |
| 7.5° | 2468.8 | 2467.9 | 2460.2 | 2434.9 | 2393.2 | 2323.8 | 2222.2 | 2206.5 | 2087.2 | 1942.6 | 1795.3 |
| 10° | 2442.9 | 2441.0 | 2453.8 | 2480.2 | 2492.8 | 2478.4 | 2392.7 | 2376.9 | 2230.5 | 2034.1 | 1830.5 |
| 12.5° | 2295.9 | 2296.9 | 2317.5 | 2372.9 | 2448.5 | 2539.2 | 2525.3 | 2517.6 | 2379.1 | 2137.6 | 1873.2 |
| 15° | 2181.4 | 2183.8 | 2200.0 | 2248.4 | 2337.5 | 2502.1 | 2605.9 | 2608.6 | 2522.9 | 2251.8 | 1923.1 |
| 17.5° | 2131.2 | 2136.3 | 2143.8 | 2177.7 | 2259.3 | 2428.2 | 2625.1 | 2639.5 | 2648.9 | 2370.3 | 1971.2 |
| 20° | 2147.2 | 2152.1 | 2154.2 | 2175.8 | 2242.8 | 2383.4 | 2611.8 | 2637.7 | 2745.5 | 2481.8 | 2019.1 |
| 22.5° | 2219.0 | 2221.9 | 2223.3 | 2228.9 | 2280.9 | 2396.2 | 2603.0 | 2630.2 | 2815.4 | 2581.9 | 2055.5 |
| 25° | 2338.0 | 2335.9 | 2327.4 | 2320.1 | 2355.1 | 2446.9 | 2623.2 | 2649.1 | 2872.2 | 2672.6 | 2079.2 |
| 27.5° | 2480.5 | 2477.8 | 2461.3 | 2441.6 | 2461.5 | 2525.9 | 2681.7 | 2702.2 | 2923.2 | 2757.5 | 2091.2 |
| 30° | 2651.6 | 2644.6 | 2613.4 | 2589.9 | 2597.6 | 2644.4 | 2778.1 | 2796.7 | 3001.9 | 2853.8 | 2103.0 |
| 32.5° | 2849.3 | 2841.8 | 2796.7 | 2757.8 | 2757.8 | 2796.7 | 2877.3 | 2892.7 | 3068.6 | 2962.7 | 2121.9 |
| 35° | 3096.9 | 3087.5 | 3028.8 | 2963.4 | 2945.1 | 2964.8 | 3012.6 | 3023.5 | 3188.7 | 3099.8 | 2156.3 |
| 37.5° | 3388.8 | 3376.3 | 3300.2 | 3212.7 | 3172.4 | 3171.4 | 3205.7 | 3228.2 | 3380.6 | 3280.0 | 2214.8 |
| 40° | 3681.6 | 3672.7 | 3606.3 | 3537.5 | 3458.5 | 3433.1 | 3486.2 | 3493.1 | 3631.4 | 3503.6 | 2289.5 |
| 42.5° | 3907.8 | 3906.3 | 3894.0 | 3903.0 | 3822.1 | 3770.9 | 3812.5 | 3818.1 | 3937.7 | 3745.6 | 2369.0 |
| 45° | 4027.4 | 4030.1 | 4089.5 | 4221.3 | 4251.2 | 4213.9 | 4234.4 | 4236.0 | 4287.8 | 3989.7 | 2441.9 |
| 47.5° | 3931.6 | 3945.5 | 4095.9 | 4390.8 | 4635.5 | 4759.6 | 4725.4 | 4745.1 | 4627.2 | 4199.5 | 2498.9 |
| 50° | 3558.2 | 3575.4 | 3831.5 | 4315.3 | 4814.8 | 5287.7 | 5269.8 | 5265.2 | 4901.0 | 4353.1 | 2529.9 |
| 52.5° | 3095.8 | 3109.1 | 3320.5 | 3922.7 | 4683.3 | 5579.5 | 5743.6 | 5720.2 | 5144.4 | 4468.2 | 2535.8 |
| 55° | 2391.7 | 2412.4 | 2615.0 | 3139.3 | 4151.2 | 5468.0 | 6092.1 | 6071.1 | 5366.1 | 4528.4 | 2528.8 |
| 57° | 1700.3 | 1722.2 | 1923.4 | 2395.9 | 3492.1 | 5081.9 | 6126.8 | 6149.2 | 5485.9 | 4538.6 | 2536.5 |
| 57.5° | 1517.2 | 1539.7 | 1739.0 | 2197.9 | 3286.6 | 4942.3 | 6097.0 | 6134.3 | 5507.5 | 4537.0 | 2540.8 |
| 60° | 764.0 | 772.5 | 899.5 | 1226.9 | 2077.6 | 3995.6 | 5707.1 | 5803.4 | 5527.0 | 4458.6 | 2559.2 |
| 62.5° | 475.0 | 468.8 | 464.8 | 565.2 | 1010.8 | 2649.7 | 4902.5 | 5088.0 | 5154.3 | 4268.5 | 2514.6 |
| 65° | 417.6 | 406.2 | 362.1 | 354.1 | 446.4 | 1286.9 | 3691.9 | 3922.7 | 4357.7 | 3969.2 | 2408.4 |
| 67.5° | 392.3 | 381.0 | 331.4 | 301.5 | 301.8 | 510.2 | 2292.2 | 2552.1 | 3394.7 | 3463.0 | 2157.9 |
| 70° | 366.1 | 355.9 | 309.6 | 274.3 | 256.9 | 282.5 | 1054.5 | 1251.7 | 2212.9 | 2722.0 | 1803.6 |
| 72.5° | 332.5 | 325.6 | 281.5 | 245.2 | 226.8 | 211.6 | 403.7 | 476.9 | 1281.1 | 1828.1 | 1252.6 |
| 75° | 297.3 | 290.8 | 253.2 | 218.5 | 196.1 | 166.5 | 227.4 | 245.0 | 650.8 | 935.3 | 616.7 |
| 77.5° | 258.6 | 254.9 | 225.2 | 193.2 | 175.3 | 138.0 | 160.9 | 169.4 | 279.1 | 401.0 | 309.3 |
| 80° | 205.7 | 213.0 | 196.9 | 172.1 | 155.6 | 110.5 | 113.9 | 119.5 | 162.5 | 195.9 | 175.6 |
| 82.5° | 134.0 | 146.5 | 154.3 | 139.8 | 128.1 | 87.0 | 81.9 | 84.3 | 105.9 | 119.5 | 76.3 |
| 85° | 55.8 | 62.7 | 101.4 | 91.6 | 85.1 | 63.5 | 55.0 | 56.1 | 65.7 | 68.0 | 31.2 |
| 87.5° | 24.8 | 26.5 | 44.5 | 41.9 | 36.1 | 21.9 | 23.5 | 25.6 | 34.9 | 33.1 | 12.0 |
| 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: P382798
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 | 1722.2 |
| 2.5° | 1723.7 | 1701.4 | 1662.9 | 1620.5 | 1585.8 | 1558.0 | 1530.1 | 1510.8 | 1488.4 | 1476.4 | 1470.3 |
| 5° | 1725.1 | 1681.1 | 1600.2 | 1517.2 | 1443.1 | 1375.2 | 1310.7 | 1261.0 | 1214.6 | 1189.6 | 1182.6 |
| 7.5° | 1730.7 | 1664.5 | 1533.8 | 1397.1 | 1265.3 | 1145.0 | 1052.1 | 994.0 | 952.0 | 933.4 | 928.1 |
| 10° | 1735.2 | 1645.0 | 1451.6 | 1249.3 | 1070.0 | 948.0 | 876.0 | 843.4 | 829.1 | 826.7 | 824.2 |
| 12.5° | 1745.9 | 1625.0 | 1365.1 | 1095.1 | 918.2 | 833.8 | 808.8 | 806.6 | 810.6 | 816.5 | 816.5 |
| 15° | 1762.8 | 1605.2 | 1266.4 | 962.8 | 821.6 | 792.0 | 797.0 | 808.8 | 819.8 | 828.8 | 830.1 |
| 17.5° | 1775.0 | 1581.0 | 1160.2 | 856.8 | 770.1 | 778.1 | 796.2 | 812.8 | 824.0 | 832.8 | 833.6 |
| 20° | 1783.8 | 1543.4 | 1046.8 | 776.0 | 740.5 | 765.3 | 788.0 | 802.6 | 810.4 | 819.2 | 820.5 |
| 22.5° | 1779.3 | 1493.0 | 946.2 | 718.0 | 716.5 | 746.6 | 768.2 | 785.9 | 780.0 | 771.4 | 777.0 |
| 25° | 1757.4 | 1423.6 | 842.7 | 674.8 | 691.1 | 721.5 | 748.2 | 736.5 | 716.7 | 713.0 | 715.1 |
| 27.5° | 1718.4 | 1335.0 | 746.9 | 634.8 | 661.8 | 698.3 | 696.7 | 685.0 | 678.1 | 673.2 | 676.1 |
| 30° | 1676.5 | 1239.0 | 663.1 | 599.8 | 629.2 | 659.3 | 653.2 | 652.9 | 646.0 | 638.3 | 642.0 |
| 32.5° | 1635.1 | 1142.4 | 596.7 | 571.0 | 604.7 | 608.7 | 622.0 | 626.0 | 612.4 | 596.1 | 595.1 |
| 35° | 1599.2 | 1051.1 | 546.3 | 544.9 | 575.0 | 575.6 | 595.1 | 589.5 | 555.6 | 538.7 | 538.7 |
| 37.5° | 1572.2 | 960.1 | 507.8 | 521.4 | 536.1 | 550.0 | 559.9 | 536.6 | 531.0 | 521.7 | 521.4 |
| 40° | 1560.4 | 880.0 | 483.8 | 503.5 | 508.6 | 526.2 | 500.9 | 509.9 | 512.6 | 507.8 | 507.8 |
| 42.5° | 1548.1 | 810.4 | 463.0 | 489.9 | 489.2 | 486.7 | 473.9 | 485.6 | 496.3 | 496.6 | 495.8 |
| 45° | 1535.9 | 750.4 | 444.5 | 460.8 | 472.0 | 446.1 | 448.5 | 461.1 | 476.0 | 481.3 | 481.3 |
| 47.5° | 1522.3 | 702.9 | 427.8 | 430.1 | 447.5 | 430.1 | 428.2 | 437.9 | 455.5 | 464.0 | 465.9 |
| 50° | 1492.4 | 660.2 | 408.5 | 403.2 | 408.0 | 413.9 | 415.5 | 420.0 | 439.5 | 453.1 | 456.3 |
| 52.5° | 1451.1 | 622.0 | 384.0 | 378.4 | 378.4 | 400.6 | 408.0 | 409.3 | 425.9 | 442.1 | 445.4 |
| 55° | 1416.6 | 597.7 | 358.6 | 357.5 | 356.5 | 386.4 | 399.2 | 401.3 | 412.8 | 425.6 | 427.2 |
| 57° | 1419.0 | 595.8 | 339.2 | 340.2 | 339.9 | 372.0 | 390.9 | 395.4 | 401.3 | 412.3 | 414.2 |
| 57.5° | 1420.3 | 597.2 | 334.9 | 335.5 | 335.2 | 368.0 | 388.5 | 393.6 | 398.1 | 409.6 | 411.5 |
| 60° | 1440.4 | 600.7 | 317.6 | 311.7 | 313.0 | 346.6 | 374.9 | 381.3 | 384.3 | 399.4 | 401.9 |
| 62.5° | 1410.7 | 585.2 | 303.7 | 289.5 | 289.5 | 324.2 | 355.9 | 366.1 | 370.7 | 391.2 | 395.2 |
| 65° | 1324.8 | 541.7 | 287.4 | 264.5 | 267.1 | 301.8 | 333.3 | 349.8 | 356.8 | 382.4 | 386.7 |
| 67.5° | 1192.2 | 491.2 | 270.1 | 242.0 | 244.7 | 278.3 | 309.8 | 327.7 | 338.6 | 372.8 | 376.3 |
| 70° | 1019.6 | 429.6 | 246.6 | 218.3 | 221.4 | 252.7 | 282.1 | 302.3 | 318.6 | 363.7 | 364.8 |
| 72.5° | 751.7 | 352.2 | 213.7 | 192.1 | 195.6 | 222.8 | 254.0 | 277.5 | 299.4 | 341.0 | 340.5 |
| 75° | 447.0 | 275.4 | 177.5 | 165.7 | 168.1 | 193.5 | 228.7 | 257.2 | 290.1 | 332.2 | 337.3 |
| 77.5° | 271.1 | 207.4 | 144.7 | 138.8 | 141.7 | 167.6 | 210.5 | 241.0 | 286.1 | 313.3 | 311.7 |
| 80° | 163.9 | 148.1 | 115.5 | 111.8 | 114.8 | 143.3 | 194.8 | 228.7 | 250.0 | 267.6 | 267.6 |
| 82.5° | 85.6 | 90.5 | 84.9 | 81.9 | 85.9 | 116.4 | 177.2 | 199.6 | 221.0 | 189.8 | 177.2 |
| 85° | 34.9 | 47.2 | 51.5 | 51.2 | 53.7 | 80.6 | 152.9 | 170.8 | 142.5 | 135.3 | 138.5 |
| 87.5° | 11.7 | 20.0 | 25.1 | 21.6 | 22.6 | 50.7 | 105.9 | 82.4 | 97.9 | 68.3 | 64.8 |
| 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)