

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: P382793

Luminaire Tested: **GLEON-SA1C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6850.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

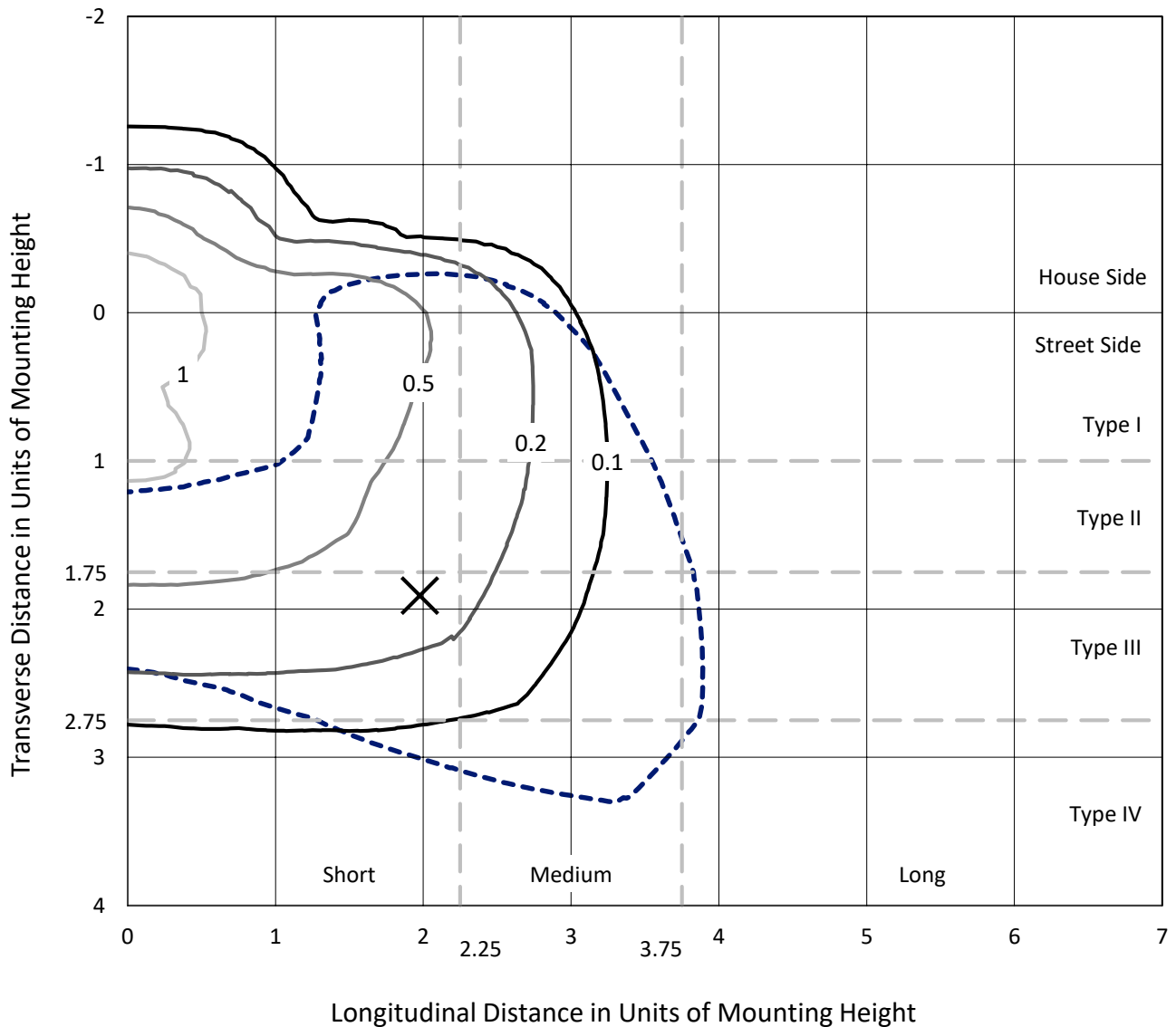
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382793
 CATALOG NUMBER: GLEON-SA1C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

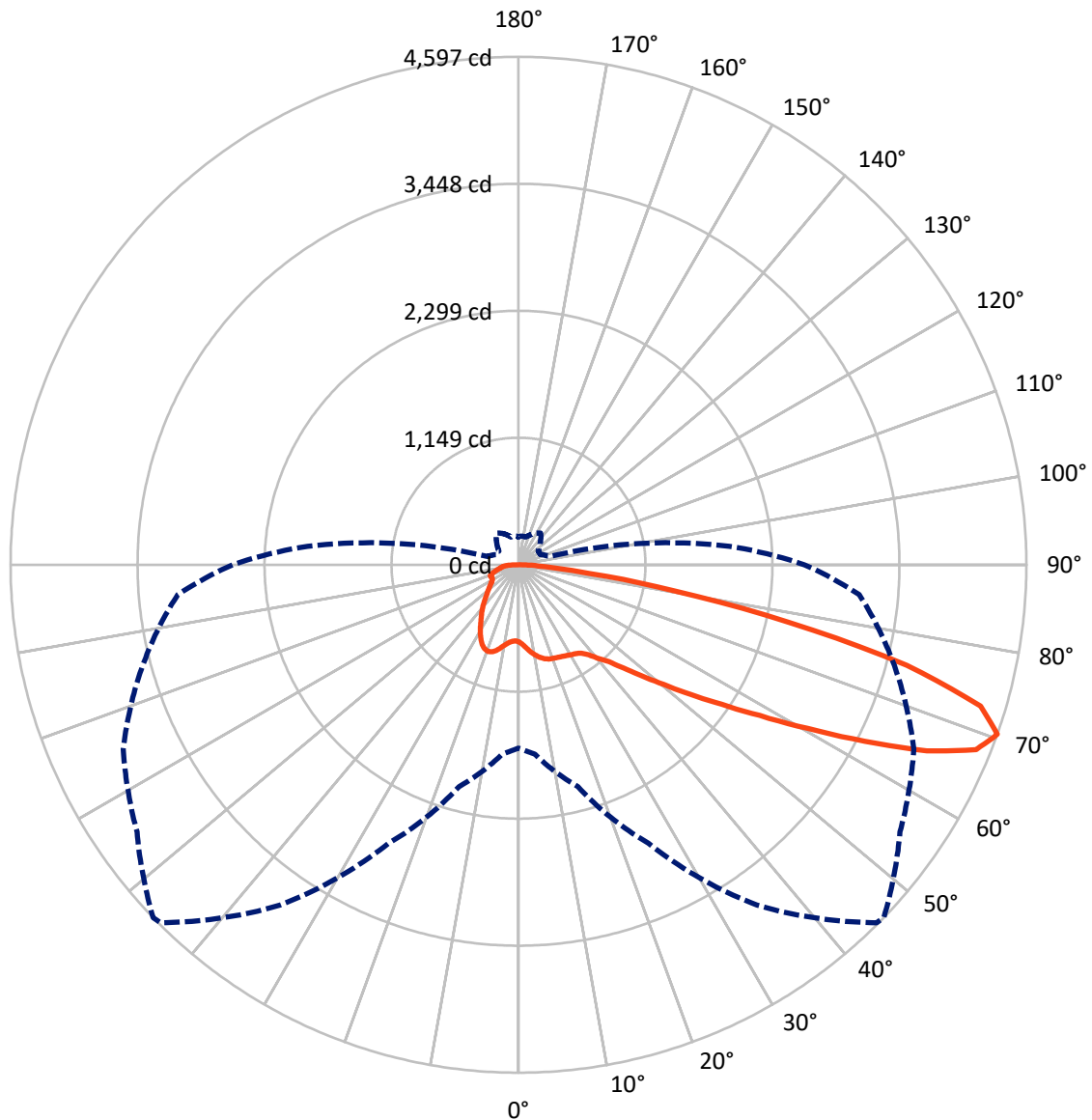
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P382793
CATALOG NUMBER: GLEON-SA1C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P382793
 CATALOG NUMBER: GLEON-SA1C-735-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1570.1 | 0.0 | 1570.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 5280.5 | 0.0 | 5280.5 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 6850.6 | 0.0 | 6850.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.1 | 1.0 |
| 10°-20° | 237.0 | 3.5 |
| 20°-30° | 395.3 | 5.8 |
| 30°-40° | 560.9 | 8.2 |
| 40°-50° | 825.0 | 12.0 |
| 50°-60° | 1397.2 | 20.4 |
| 60°-70° | 1983.3 | 29.0 |
| 70°-80° | 1204.9 | 17.6 |
| 80°-90° | 175.8 | 2.6 |
| 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° | 6850.6 | 100.0 |
| 0°-180° | 6850.6 | 100.0 |

Coefficient of Utilization



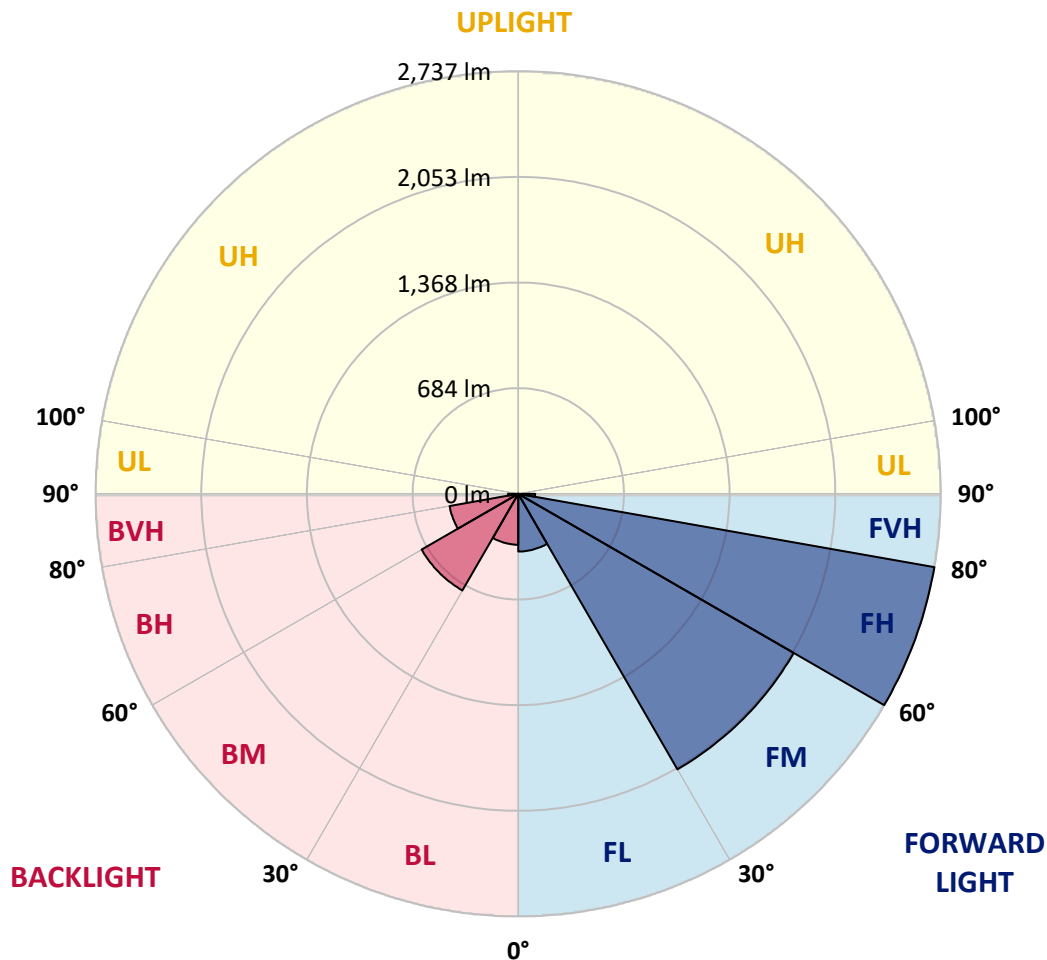
REPORT NUMBER: P382793
 CATALOG NUMBER: GLEON-SA1C-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 373.8 | 5.5 | | | |
| FM (30°-60°) | 2060.4 | 30.1 | | | |
| FH (60°-80°) | 2736.8 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 109.5 | 1.6 | | | G2/225 |
| BL (0°-30°) | 329.7 | 4.8 | B1/500 | | |
| BM (30°-60°) | 722.8 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 451.4 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 66.3 | 1.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P382793
 CATALOG NUMBER: GLEON-SA1C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 |
| 2.5° | 732.8 | 733.3 | 734.2 | 731.9 | 725.4 | 723.5 | 722.8 | 716.0 | 711.5 | 705.0 | 699.3 |
| 5° | 791.4 | 791.9 | 790.5 | 784.0 | 769.5 | 758.7 | 757.7 | 742.3 | 728.2 | 713.2 | 701.9 |
| 7.5° | 852.6 | 853.4 | 848.9 | 836.5 | 816.1 | 797.3 | 796.2 | 775.0 | 753.7 | 731.0 | 714.1 |
| 10° | 906.9 | 904.0 | 896.7 | 879.4 | 855.3 | 832.2 | 831.3 | 809.3 | 784.6 | 757.3 | 734.7 |
| 12.5° | 942.9 | 940.6 | 931.2 | 910.1 | 883.7 | 862.5 | 860.7 | 840.3 | 816.3 | 786.3 | 759.4 |
| 15° | 962.8 | 964.5 | 951.9 | 927.9 | 902.1 | 884.3 | 882.6 | 868.1 | 846.8 | 816.6 | 785.7 |
| 17.5° | 965.5 | 966.9 | 954.6 | 931.0 | 909.8 | 897.7 | 897.0 | 887.4 | 871.9 | 842.9 | 810.4 |
| 20° | 950.5 | 951.4 | 941.3 | 921.9 | 908.0 | 904.3 | 904.0 | 899.8 | 888.3 | 862.5 | 831.1 |
| 22.5° | 928.7 | 929.3 | 922.0 | 908.0 | 903.3 | 909.2 | 910.8 | 909.2 | 901.0 | 876.9 | 847.2 |
| 25° | 923.3 | 922.8 | 915.2 | 901.0 | 905.0 | 917.4 | 919.5 | 920.2 | 914.6 | 893.4 | 867.9 |
| 27.5° | 949.2 | 947.7 | 933.3 | 910.3 | 912.9 | 927.9 | 930.7 | 937.5 | 934.1 | 915.5 | 891.4 |
| 30° | 1024.5 | 1021.7 | 992.4 | 946.0 | 933.3 | 941.0 | 944.6 | 955.4 | 956.0 | 940.6 | 922.5 |
| 32.5° | 1151.6 | 1148.0 | 1095.6 | 1012.6 | 967.8 | 954.5 | 957.7 | 973.8 | 982.6 | 970.6 | 951.1 |
| 35° | 1312.2 | 1308.2 | 1239.2 | 1125.8 | 1025.4 | 980.0 | 982.3 | 995.2 | 1012.6 | 995.7 | 969.9 |
| 37.5° | 1479.6 | 1470.0 | 1403.7 | 1259.0 | 1117.1 | 1034.6 | 1034.6 | 1036.3 | 1044.5 | 1009.2 | 991.9 |
| 40° | 1646.0 | 1636.4 | 1576.4 | 1415.6 | 1235.8 | 1120.7 | 1115.2 | 1078.9 | 1072.3 | 1042.1 | 1036.3 |
| 42.5° | 1800.8 | 1798.0 | 1762.6 | 1592.6 | 1375.1 | 1205.2 | 1197.8 | 1136.1 | 1137.5 | 1118.8 | 1119.0 |
| 45° | 1965.4 | 1965.4 | 1936.5 | 1771.2 | 1537.2 | 1341.2 | 1333.8 | 1243.1 | 1257.1 | 1248.5 | 1269.3 |
| 47.5° | 2099.7 | 2103.9 | 2099.9 | 1957.4 | 1726.0 | 1514.0 | 1500.4 | 1391.2 | 1430.6 | 1460.4 | 1521.1 |
| 50° | 2236.8 | 2243.4 | 2244.1 | 2161.6 | 1954.1 | 1719.5 | 1704.0 | 1587.9 | 1675.9 | 1761.2 | 1880.5 |
| 52.5° | 2435.9 | 2450.6 | 2391.8 | 2365.3 | 2233.6 | 1963.2 | 1948.0 | 1840.8 | 1987.6 | 2107.4 | 2313.0 |
| 55° | 2620.4 | 2607.5 | 2565.6 | 2582.0 | 2532.7 | 2240.8 | 2229.4 | 2135.3 | 2335.1 | 2490.8 | 2757.8 |
| 57.5° | 2720.3 | 2719.3 | 2761.5 | 2831.9 | 2855.3 | 2583.1 | 2573.5 | 2482.1 | 2726.8 | 2843.8 | 3175.4 |
| 60° | 2837.5 | 2839.2 | 2943.7 | 3103.4 | 3200.0 | 3009.4 | 3005.1 | 2935.7 | 3107.4 | 3173.4 | 3502.8 |
| 62.5° | 2853.9 | 2883.4 | 3063.5 | 3338.3 | 3522.6 | 3507.3 | 3516.7 | 3344.3 | 3447.8 | 3436.5 | 3747.3 |
| 65° | 2665.2 | 2704.1 | 3030.0 | 3409.3 | 3843.3 | 4052.0 | 4060.6 | 3755.3 | 3716.2 | 3661.4 | 3834.8 |
| 67.5° | 2278.4 | 2336.0 | 2690.0 | 3254.8 | 3949.0 | 4454.5 | 4466.7 | 4073.9 | 3938.9 | 3737.6 | 3624.3 |
| 70° | 1658.0 | 1722.0 | 2078.4 | 2779.8 | 3760.5 | 4583.1 | 4597.0 | 4214.9 | 3947.3 | 3520.7 | 3093.9 |
| 72.5° | 1001.5 | 1051.7 | 1345.4 | 2046.4 | 3173.9 | 4348.7 | 4373.3 | 4036.2 | 3603.9 | 2982.2 | 2284.6 |
| 75° | 439.8 | 472.7 | 650.6 | 1179.2 | 2272.2 | 3598.0 | 3628.8 | 3454.7 | 2928.2 | 2167.2 | 1350.4 |
| 77.5° | 187.3 | 196.7 | 266.8 | 512.3 | 1284.5 | 2458.6 | 2500.8 | 2524.3 | 1986.7 | 1179.2 | 570.7 |
| 80° | 116.7 | 120.5 | 151.0 | 231.9 | 601.1 | 1380.9 | 1426.4 | 1485.2 | 986.5 | 433.4 | 199.3 |
| 82.5° | 71.1 | 75.3 | 100.3 | 140.2 | 313.0 | 626.0 | 647.8 | 689.3 | 382.9 | 187.3 | 103.1 |
| 85° | 42.7 | 45.7 | 61.4 | 88.6 | 178.2 | 246.2 | 245.9 | 271.9 | 180.3 | 120.5 | 54.4 |
| 87.5° | 20.4 | 22.7 | 32.8 | 45.9 | 89.8 | 92.4 | 86.5 | 98.0 | 109.5 | 79.0 | 27.4 |
| 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: P382793
 CATALOG NUMBER: GLEON-SA1C-735-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 | 697.9 |
| 2.5° | 697.4 | 696.5 | 693.4 | 691.1 | 690.6 | 689.3 | 688.1 | 688.8 | 689.7 | 690.0 | 690.0 |
| 5° | 697.3 | 694.7 | 690.6 | 689.1 | 691.1 | 694.0 | 697.4 | 702.2 | 705.0 | 707.0 | 708.5 |
| 7.5° | 708.5 | 703.6 | 699.1 | 698.2 | 702.4 | 709.9 | 717.9 | 727.7 | 734.5 | 739.2 | 740.1 |
| 10° | 727.3 | 721.1 | 716.7 | 717.7 | 725.1 | 735.9 | 747.2 | 759.9 | 770.1 | 776.4 | 776.9 |
| 12.5° | 748.8 | 742.9 | 738.7 | 742.7 | 755.1 | 768.2 | 780.0 | 791.0 | 800.4 | 806.7 | 806.7 |
| 15° | 773.7 | 769.5 | 764.5 | 773.7 | 790.5 | 802.2 | 807.2 | 812.6 | 817.7 | 822.5 | 821.5 |
| 17.5° | 797.6 | 793.6 | 791.0 | 801.8 | 819.4 | 824.8 | 821.5 | 817.5 | 817.5 | 820.0 | 820.6 |
| 20° | 818.2 | 814.7 | 816.3 | 826.8 | 836.1 | 830.4 | 818.2 | 805.5 | 800.4 | 801.8 | 803.2 |
| 22.5° | 836.3 | 834.7 | 839.5 | 844.4 | 837.9 | 818.2 | 795.7 | 778.6 | 772.3 | 771.8 | 772.3 |
| 25° | 857.4 | 857.1 | 863.3 | 854.3 | 825.3 | 788.9 | 758.7 | 742.0 | 738.5 | 741.3 | 746.0 |
| 27.5° | 883.7 | 886.2 | 889.3 | 856.7 | 799.5 | 744.6 | 713.8 | 702.4 | 705.9 | 712.7 | 717.2 |
| 30° | 917.1 | 924.2 | 917.6 | 850.8 | 762.4 | 694.0 | 664.7 | 661.4 | 671.0 | 680.6 | 685.2 |
| 32.5° | 949.7 | 960.8 | 944.8 | 835.6 | 714.6 | 640.3 | 617.5 | 616.6 | 628.3 | 637.6 | 644.3 |
| 35° | 976.0 | 997.8 | 965.2 | 805.3 | 659.3 | 590.8 | 574.1 | 567.9 | 572.1 | 583.1 | 590.6 |
| 37.5° | 1010.3 | 1046.6 | 979.2 | 759.1 | 599.3 | 550.0 | 530.5 | 516.0 | 512.3 | 516.7 | 520.5 |
| 40° | 1072.9 | 1120.8 | 985.9 | 694.7 | 540.7 | 509.2 | 489.5 | 468.2 | 453.4 | 442.7 | 442.9 |
| 42.5° | 1175.1 | 1217.7 | 981.7 | 616.3 | 486.5 | 469.3 | 447.0 | 422.5 | 398.5 | 374.2 | 372.3 |
| 45° | 1341.1 | 1361.6 | 969.0 | 533.4 | 438.9 | 427.7 | 406.8 | 382.1 | 350.3 | 322.6 | 320.0 |
| 47.5° | 1606.6 | 1560.9 | 949.2 | 460.9 | 396.9 | 392.2 | 373.0 | 344.7 | 310.9 | 288.6 | 286.7 |
| 50° | 1968.8 | 1848.6 | 939.7 | 403.3 | 359.9 | 361.3 | 345.6 | 315.6 | 283.7 | 267.3 | 265.4 |
| 52.5° | 2402.1 | 2183.6 | 958.2 | 358.7 | 330.1 | 335.0 | 323.3 | 295.2 | 268.5 | 255.5 | 253.7 |
| 55° | 2851.6 | 2530.6 | 978.1 | 326.3 | 302.0 | 311.6 | 307.6 | 284.4 | 260.3 | 248.3 | 246.7 |
| 57.5° | 3236.3 | 2789.6 | 938.3 | 300.1 | 276.9 | 291.9 | 295.4 | 277.6 | 256.0 | 245.2 | 243.3 |
| 60° | 3478.5 | 2893.9 | 833.6 | 275.5 | 256.9 | 276.2 | 288.4 | 275.7 | 257.7 | 256.7 | 255.3 |
| 62.5° | 3593.4 | 2884.8 | 676.9 | 256.0 | 244.5 | 269.4 | 293.5 | 286.3 | 276.4 | 284.9 | 285.5 |
| 65° | 3541.7 | 2746.9 | 504.1 | 243.1 | 235.6 | 271.9 | 309.0 | 306.2 | 281.8 | 290.3 | 291.4 |
| 67.5° | 3202.3 | 2418.0 | 373.3 | 231.9 | 225.8 | 279.2 | 337.1 | 312.7 | 271.3 | 277.3 | 273.6 |
| 70° | 2588.3 | 1917.0 | 287.9 | 219.2 | 215.7 | 278.3 | 349.8 | 308.8 | 259.8 | 261.2 | 251.1 |
| 72.5° | 1784.8 | 1307.2 | 234.2 | 207.5 | 201.1 | 253.7 | 340.9 | 298.9 | 250.1 | 239.4 | 226.0 |
| 75° | 970.6 | 701.7 | 199.1 | 195.3 | 175.6 | 222.7 | 324.5 | 291.9 | 241.5 | 227.2 | 219.7 |
| 77.5° | 381.9 | 291.2 | 172.8 | 178.7 | 153.5 | 196.7 | 306.2 | 278.5 | 229.5 | 210.8 | 207.0 |
| 80° | 155.9 | 148.7 | 143.3 | 154.5 | 132.0 | 172.1 | 284.1 | 262.8 | 215.2 | 195.5 | 188.0 |
| 82.5° | 88.4 | 92.4 | 111.3 | 121.9 | 107.1 | 158.5 | 273.6 | 250.1 | 198.1 | 175.1 | 166.2 |
| 85° | 45.3 | 54.1 | 77.6 | 87.5 | 78.8 | 134.8 | 252.0 | 219.0 | 158.9 | 134.1 | 134.8 |
| 87.5° | 21.8 | 30.3 | 49.0 | 54.9 | 51.1 | 97.5 | 188.3 | 158.7 | 123.8 | 98.0 | 94.9 |
| 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)