

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: P194489

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL3-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4106 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
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: 25 FT



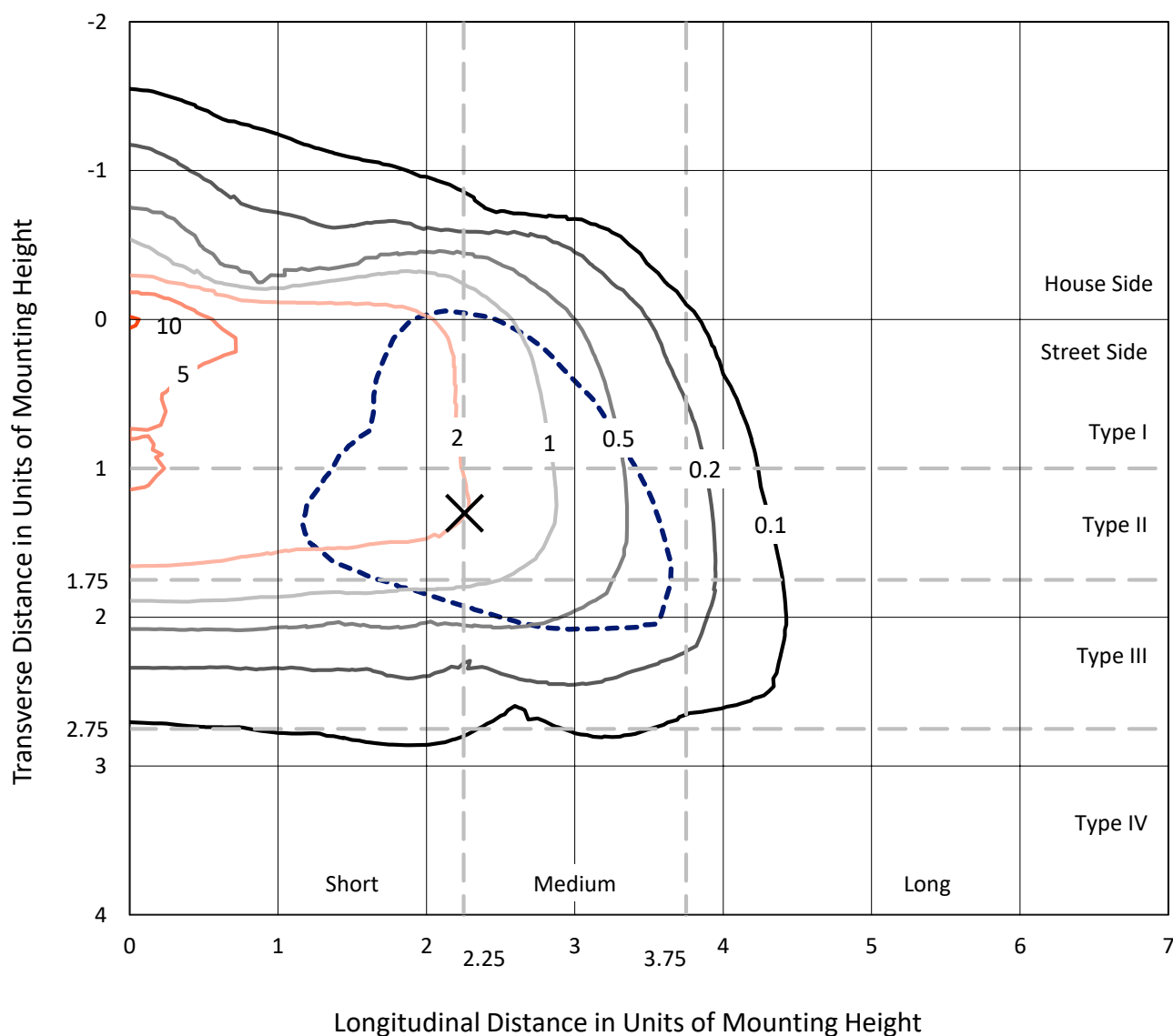
REPORT NUMBER: P194489

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

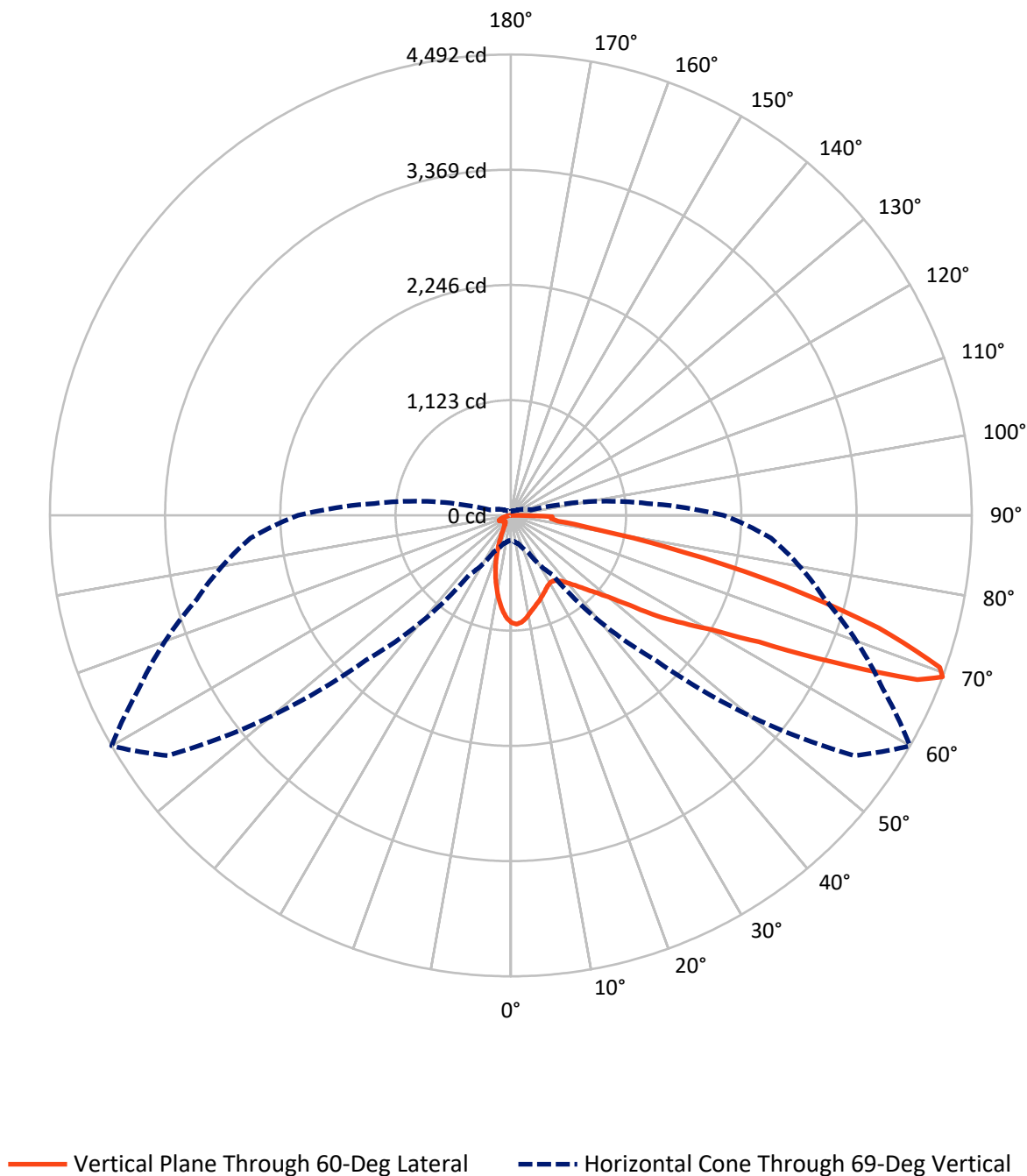


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
Type III - Medium - Non-Cutoff

REPORT NUMBER: P194489

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

## Luminous Intensity Polar Plot



REPORT NUMBER: P194489

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

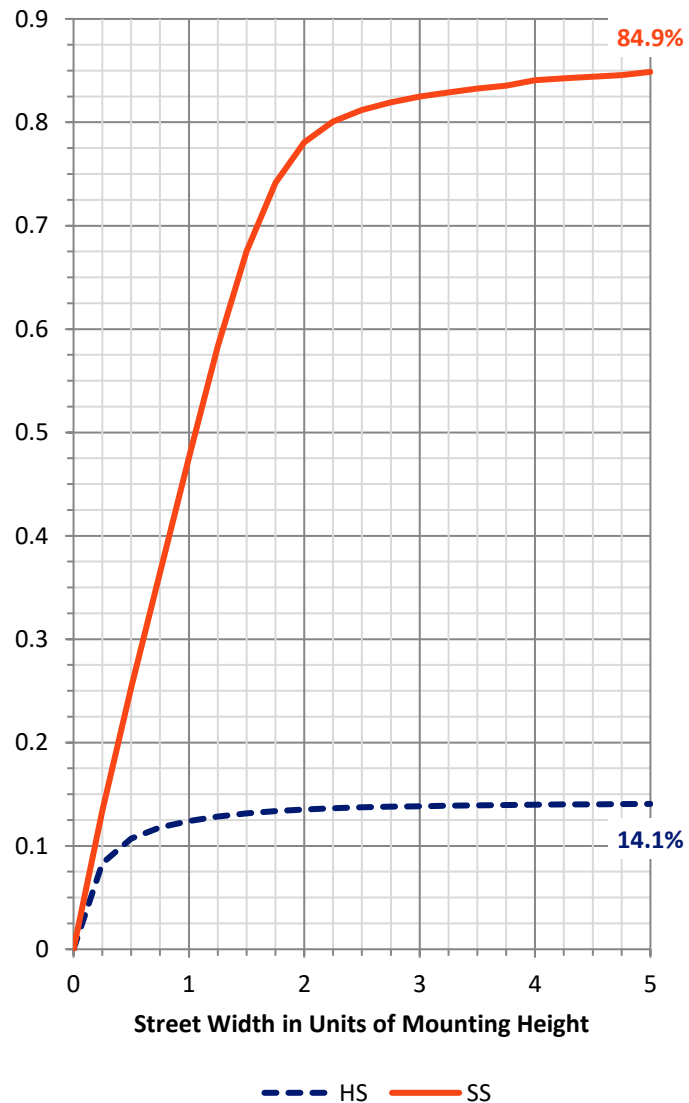
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 584.2    | 0.0    | 584.2  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 3521.8   | 0.0    | 3521.8 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 4106.0   | 0.0    | 4106.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.5   | 2.2       |
| 10°-20°   | 188.5  | 4.6       |
| 20°-30°   | 240.2  | 5.8       |
| 30°-40°   | 330.2  | 8.0       |
| 40°-50°   | 535.7  | 13.0      |
| 50°-60°   | 859.2  | 20.9      |
| 60°-70°   | 1143.5 | 27.8      |
| 70°-80°   | 617.4  | 15.0      |
| 80°-90°   | 103.0  | 2.5       |
| 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°    | 4106.0 | 100.0     |
| 0°-180°   | 4106.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P194489

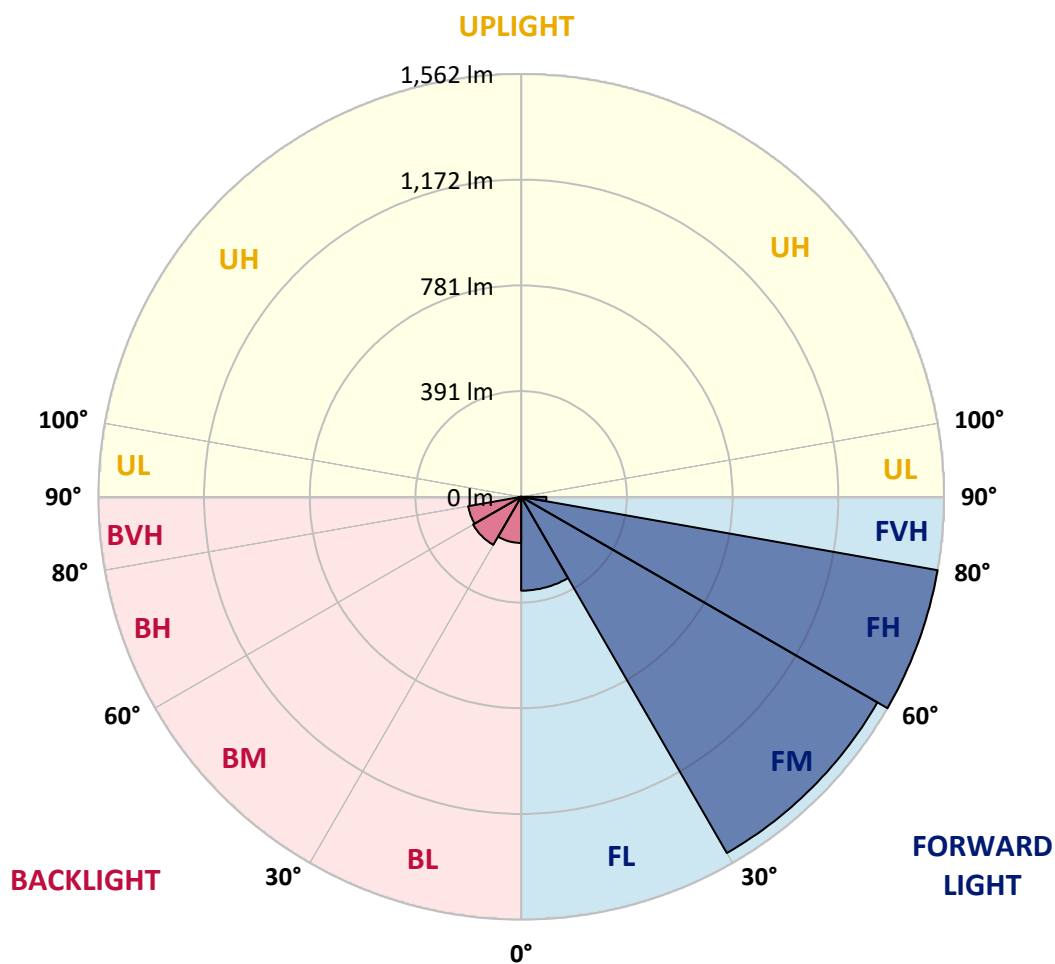
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 346.7  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1519.8 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1562.3 | 38.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 93.1   | 2.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 170.4  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 205.2  | 5.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 198.6  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.9    | 0.2       |                         |      | 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 Medium



REPORT NUMBER: P194489

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 |
| 2.5°  | 1067.7 | 1070.1 | 1069.1 | 1068.5 | 1070.3 | 1067.5 | 1061.7 | 1060.0 | 1057.2 | 1050.6 | 1039.5 |
| 5°    | 1027.6 | 1034.8 | 1034.4 | 1039.7 | 1048.7 | 1051.0 | 1048.5 | 1048.8 | 1043.7 | 1035.6 | 1017.1 |
| 7.5°  | 958.4  | 961.4  | 963.0  | 974.7  | 990.9  | 1004.0 | 1015.1 | 1018.7 | 1016.3 | 1009.4 | 985.6  |
| 10°   | 887.0  | 889.4  | 893.1  | 906.8  | 927.5  | 945.5  | 966.5  | 978.6  | 983.8  | 982.6  | 956.0  |
| 12.5° | 825.7  | 828.1  | 833.1  | 848.5  | 873.1  | 895.3  | 925.9  | 940.9  | 953.2  | 960.6  | 932.0  |
| 15°   | 770.8  | 775.9  | 780.7  | 798.5  | 826.1  | 855.3  | 889.8  | 908.8  | 927.9  | 944.3  | 910.8  |
| 17.5° | 727.9  | 733.1  | 735.9  | 752.1  | 781.5  | 817.2  | 857.6  | 880.1  | 903.9  | 930.8  | 889.8  |
| 20°   | 703.1  | 705.5  | 704.3  | 713.4  | 739.8  | 777.7  | 825.7  | 851.7  | 880.5  | 918.1  | 868.8  |
| 22.5° | 696.2  | 696.4  | 692.0  | 691.0  | 708.1  | 740.0  | 791.6  | 823.1  | 858.4  | 909.8  | 850.7  |
| 25°   | 713.1  | 712.5  | 700.6  | 690.8  | 692.6  | 711.3  | 758.7  | 795.4  | 840.0  | 908.0  | 836.8  |
| 27.5° | 750.5  | 752.3  | 734.7  | 716.4  | 698.4  | 697.8  | 733.7  | 772.4  | 824.9  | 916.2  | 830.9  |
| 30°   | 803.1  | 806.1  | 787.2  | 764.0  | 730.1  | 702.1  | 724.0  | 758.7  | 815.6  | 933.0  | 829.9  |
| 32.5° | 860.6  | 863.8  | 849.5  | 825.1  | 780.7  | 729.1  | 730.7  | 759.9  | 815.2  | 956.6  | 836.6  |
| 35°   | 921.9  | 925.5  | 918.1  | 897.5  | 848.1  | 778.9  | 756.5  | 779.1  | 828.1  | 992.7  | 854.7  |
| 37.5° | 990.3  | 995.9  | 997.9  | 978.2  | 925.5  | 844.6  | 798.7  | 815.6  | 857.2  | 1042.9 | 887.8  |
| 40°   | 1088.9 | 1096.7 | 1096.1 | 1067.9 | 1014.1 | 933.2  | 864.0  | 868.4  | 902.7  | 1109.9 | 940.8  |
| 42.5° | 1277.7 | 1279.3 | 1229.9 | 1168.7 | 1111.7 | 1026.4 | 940.9  | 937.4  | 965.3  | 1194.8 | 1018.7 |
| 45°   | 1517.9 | 1511.4 | 1401.5 | 1283.1 | 1213.7 | 1133.5 | 1041.1 | 1023.7 | 1044.9 | 1298.4 | 1116.3 |
| 47.5° | 1717.3 | 1702.2 | 1563.4 | 1399.9 | 1321.6 | 1250.0 | 1158.7 | 1128.2 | 1139.9 | 1415.8 | 1242.4 |
| 50°   | 1786.5 | 1775.2 | 1660.1 | 1497.1 | 1423.7 | 1392.0 | 1303.5 | 1260.3 | 1263.5 | 1555.8 | 1390.2 |
| 52.5° | 1771.6 | 1770.0 | 1693.3 | 1561.2 | 1519.3 | 1541.1 | 1508.6 | 1450.1 | 1419.2 | 1711.3 | 1549.7 |
| 55°   | 1736.5 | 1739.9 | 1712.1 | 1635.8 | 1628.6 | 1685.1 | 1776.6 | 1733.3 | 1637.1 | 1868.2 | 1714.5 |
| 57.5° | 1614.5 | 1623.3 | 1684.3 | 1729.6 | 1804.5 | 1888.6 | 1992.4 | 1980.1 | 1871.8 | 2037.8 | 1910.5 |
| 60°   | 1300.7 | 1321.0 | 1484.8 | 1711.3 | 1985.6 | 2248.6 | 2295.1 | 2266.5 | 2113.8 | 2248.2 | 2169.3 |
| 62.5° | 911.4  | 932.4  | 1127.2 | 1481.6 | 1955.9 | 2655.2 | 2836.1 | 2713.0 | 2461.3 | 2558.3 | 2504.3 |
| 65°   | 487.9  | 498.0  | 646.8  | 1028.0 | 1651.2 | 2739.1 | 3626.9 | 3439.5 | 3011.5 | 2940.5 | 2790.9 |
| 67.5° | 269.2  | 274.7  | 331.6  | 519.1  | 1057.6 | 2412.1 | 4130.7 | 4272.4 | 3699.1 | 3194.9 | 2738.8 |
| 69°   | 243.4  | 248.5  | 285.8  | 393.1  | 707.7  | 1994.4 | 4081.5 | 4491.9 | 4000.6 | 3169.8 | 2546.0 |
| 70°   | 238.0  | 242.8  | 276.3  | 362.4  | 572.8  | 1643.9 | 3916.7 | 4435.8 | 4072.4 | 3079.5 | 2377.8 |
| 72.5° | 214.2  | 219.4  | 251.9  | 325.5  | 489.5  | 819.6  | 3102.5 | 3750.5 | 3697.4 | 2670.1 | 1803.6 |
| 75°   | 199.7  | 204.5  | 259.6  | 318.7  | 468.7  | 518.7  | 2045.3 | 2764.1 | 2717.9 | 1867.8 | 972.5  |
| 77.5° | 85.5   | 85.1   | 120.4  | 269.7  | 475.6  | 502.2  | 1099.0 | 1726.8 | 1575.5 | 798.3  | 279.3  |
| 80°   | 57.1   | 56.1   | 57.1   | 79.3   | 436.2  | 505.0  | 575.8  | 876.5  | 662.1  | 203.5  | 137.7  |
| 82.5° | 49.2   | 48.4   | 50.2   | 48.4   | 153.3  | 576.4  | 489.5  | 466.1  | 314.8  | 115.6  | 68.2   |
| 85°   | 33.1   | 31.7   | 43.2   | 43.4   | 72.4   | 512.1  | 551.4  | 393.7  | 254.7  | 68.6   | 33.7   |
| 87.5° | 15.9   | 15.5   | 25.2   | 30.7   | 42.4   | 208.1  | 618.6  | 403.4  | 256.9  | 35.1   | 16.1   |
| 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: P194489

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7060-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 | 1046.3 |
| 2.5°  | 1036.2 | 1028.0 | 1020.1 | 1010.6 | 1000.7 | 989.5  | 984.0  | 978.4  | 977.0  | 975.5  | 969.9  |
| 5°    | 1007.6 | 996.1  | 976.3  | 954.4  | 931.4  | 909.0  | 892.0  | 881.2  | 873.1  | 869.0  | 861.6  |
| 7.5°  | 970.7  | 953.8  | 919.1  | 881.4  | 842.8  | 807.5  | 776.9  | 757.7  | 739.4  | 730.9  | 721.2  |
| 10°   | 935.6  | 910.4  | 856.5  | 800.9  | 745.4  | 692.0  | 641.8  | 606.3  | 574.8  | 557.2  | 544.7  |
| 12.5° | 905.4  | 870.9  | 796.2  | 721.0  | 644.8  | 568.9  | 493.7  | 434.6  | 385.2  | 359.2  | 345.9  |
| 15°   | 876.1  | 834.4  | 738.8  | 643.4  | 545.6  | 442.3  | 343.5  | 276.5  | 235.6  | 219.4  | 213.8  |
| 17.5° | 849.5  | 796.2  | 681.3  | 565.3  | 443.3  | 318.3  | 230.9  | 194.0  | 178.3  | 173.0  | 171.2  |
| 20°   | 820.8  | 757.5  | 621.6  | 483.6  | 336.6  | 222.5  | 180.3  | 164.0  | 157.7  | 156.1  | 155.3  |
| 22.5° | 793.0  | 719.4  | 564.5  | 396.1  | 241.8  | 171.8  | 154.9  | 148.2  | 147.2  | 148.6  | 148.6  |
| 25°   | 769.4  | 685.3  | 502.8  | 304.7  | 177.5  | 144.6  | 138.6  | 137.1  | 140.8  | 146.0  | 147.0  |
| 27.5° | 751.7  | 657.3  | 437.2  | 224.9  | 141.4  | 125.8  | 125.6  | 128.1  | 137.5  | 147.4  | 149.4  |
| 30°   | 739.6  | 630.7  | 366.9  | 162.2  | 118.6  | 110.7  | 113.9  | 119.4  | 133.1  | 147.2  | 150.9  |
| 32.5° | 733.5  | 611.1  | 293.7  | 125.6  | 101.6  | 97.2   | 102.5  | 109.3  | 122.8  | 135.9  | 140.8  |
| 35°   | 738.2  | 596.6  | 224.7  | 104.7  | 89.7   | 86.3   | 91.8   | 98.4   | 106.3  | 111.9  | 115.6  |
| 37.5° | 756.1  | 590.9  | 169.6  | 93.8   | 81.5   | 78.3   | 82.7   | 86.5   | 89.7   | 91.2   | 93.0   |
| 40°   | 794.6  | 597.0  | 135.9  | 88.3   | 77.0   | 73.0   | 74.8   | 76.2   | 78.1   | 79.7   | 80.5   |
| 42.5° | 851.3  | 615.5  | 121.8  | 86.1   | 74.6   | 68.8   | 68.4   | 69.0   | 71.6   | 74.6   | 75.2   |
| 45°   | 930.6  | 648.0  | 120.8  | 87.5   | 73.4   | 65.5   | 63.7   | 64.5   | 68.4   | 73.0   | 73.8   |
| 47.5° | 1032.0 | 697.6  | 128.7  | 91.6   | 74.4   | 63.7   | 60.7   | 61.7   | 66.6   | 72.8   | 73.8   |
| 50°   | 1154.8 | 766.8  | 142.0  | 97.8   | 78.7   | 64.1   | 59.7   | 60.3   | 65.5   | 72.2   | 73.2   |
| 52.5° | 1299.8 | 865.0  | 156.5  | 103.7  | 83.3   | 66.6   | 60.5   | 59.1   | 63.9   | 69.8   | 71.0   |
| 55°   | 1461.0 | 990.9  | 171.4  | 109.1  | 85.7   | 69.8   | 62.1   | 57.5   | 60.9   | 65.9   | 66.8   |
| 57.5° | 1659.0 | 1167.1 | 197.2  | 114.2  | 87.3   | 72.0   | 63.7   | 55.9   | 57.1   | 60.7   | 61.5   |
| 60°   | 1926.9 | 1416.2 | 242.6  | 122.8  | 90.8   | 72.8   | 63.5   | 54.5   | 53.4   | 55.3   | 55.7   |
| 62.5° | 2248.0 | 1686.7 | 280.5  | 133.5  | 96.8   | 73.4   | 62.3   | 53.6   | 50.2   | 50.2   | 50.6   |
| 65°   | 2438.7 | 1759.1 | 259.4  | 142.4  | 101.8  | 72.8   | 60.9   | 52.6   | 47.8   | 45.6   | 45.8   |
| 67.5° | 2277.0 | 1547.1 | 222.3  | 144.2  | 101.6  | 70.0   | 58.7   | 50.8   | 45.4   | 42.0   | 41.9   |
| 69°   | 2074.5 | 1334.9 | 205.7  | 139.4  | 96.8   | 66.4   | 55.9   | 48.8   | 43.6   | 40.1   | 39.9   |
| 70°   | 1911.3 | 1205.3 | 194.8  | 134.3  | 91.6   | 63.9   | 53.8   | 47.0   | 42.2   | 38.9   | 38.5   |
| 72.5° | 1389.6 | 789.8  | 166.4  | 115.4  | 75.6   | 53.6   | 46.4   | 41.3   | 37.7   | 35.7   | 35.3   |
| 75°   | 694.4  | 376.7  | 135.1  | 93.6   | 57.9   | 42.8   | 38.1   | 34.5   | 32.7   | 32.3   | 32.1   |
| 77.5° | 228.1  | 172.6  | 96.6   | 69.8   | 43.0   | 33.5   | 30.7   | 28.2   | 27.8   | 29.0   | 28.6   |
| 80°   | 125.4  | 100.4  | 61.3   | 46.2   | 29.4   | 24.6   | 24.2   | 22.8   | 23.4   | 25.4   | 25.0   |
| 82.5° | 63.9   | 52.2   | 37.9   | 27.8   | 19.8   | 17.7   | 19.2   | 18.4   | 19.2   | 21.0   | 20.8   |
| 85°   | 31.5   | 28.6   | 24.0   | 16.9   | 13.1   | 11.3   | 13.7   | 14.3   | 14.7   | 16.1   | 16.1   |
| 87.5° | 18.2   | 16.9   | 12.7   | 7.9    | 6.5    | 6.0    | 7.9    | 7.7    | 9.1    | 9.9    | 9.7    |
| 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)