

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: P193229

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6162.2 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
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: 25 FT



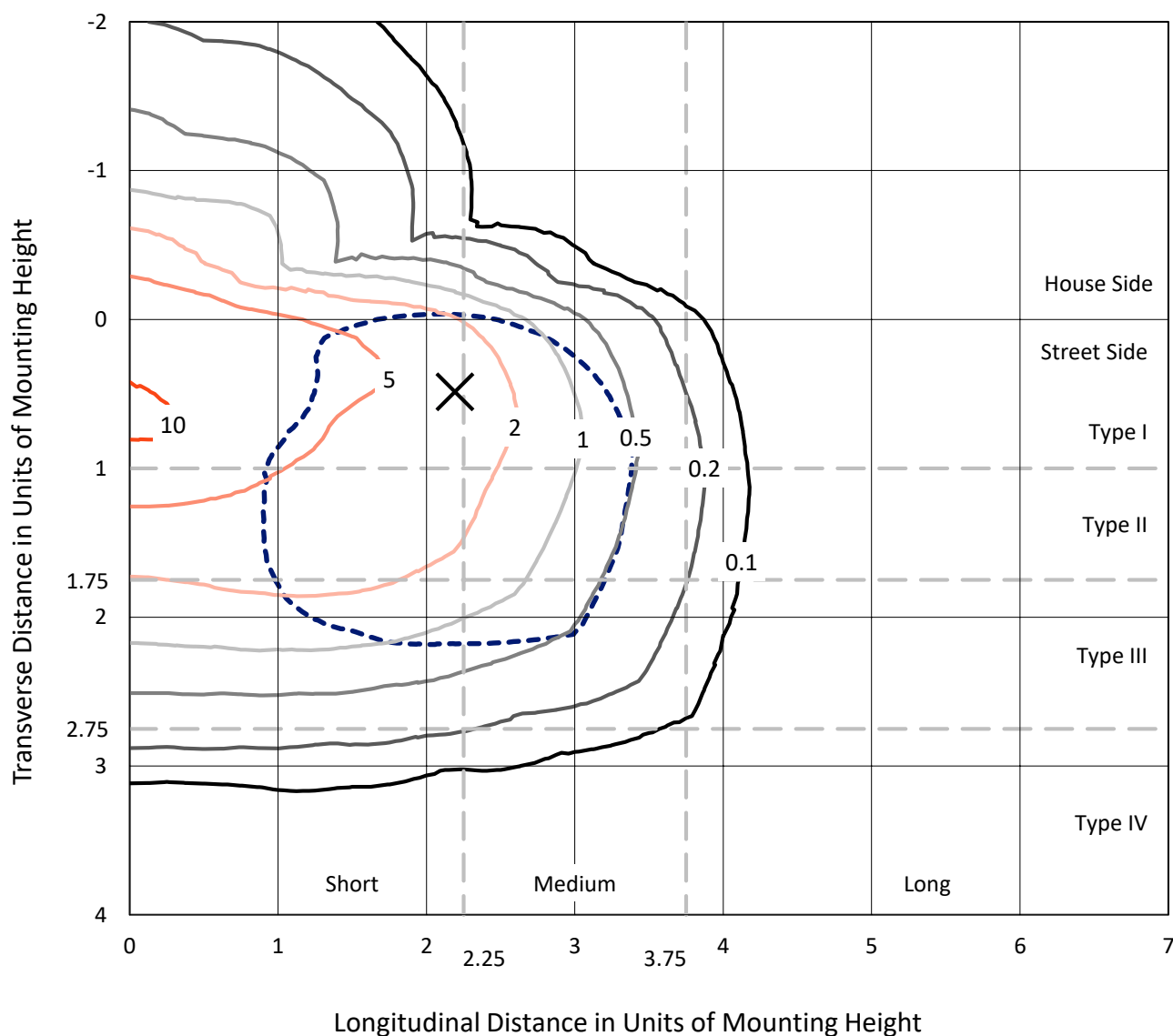
REPORT NUMBER: P193229

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

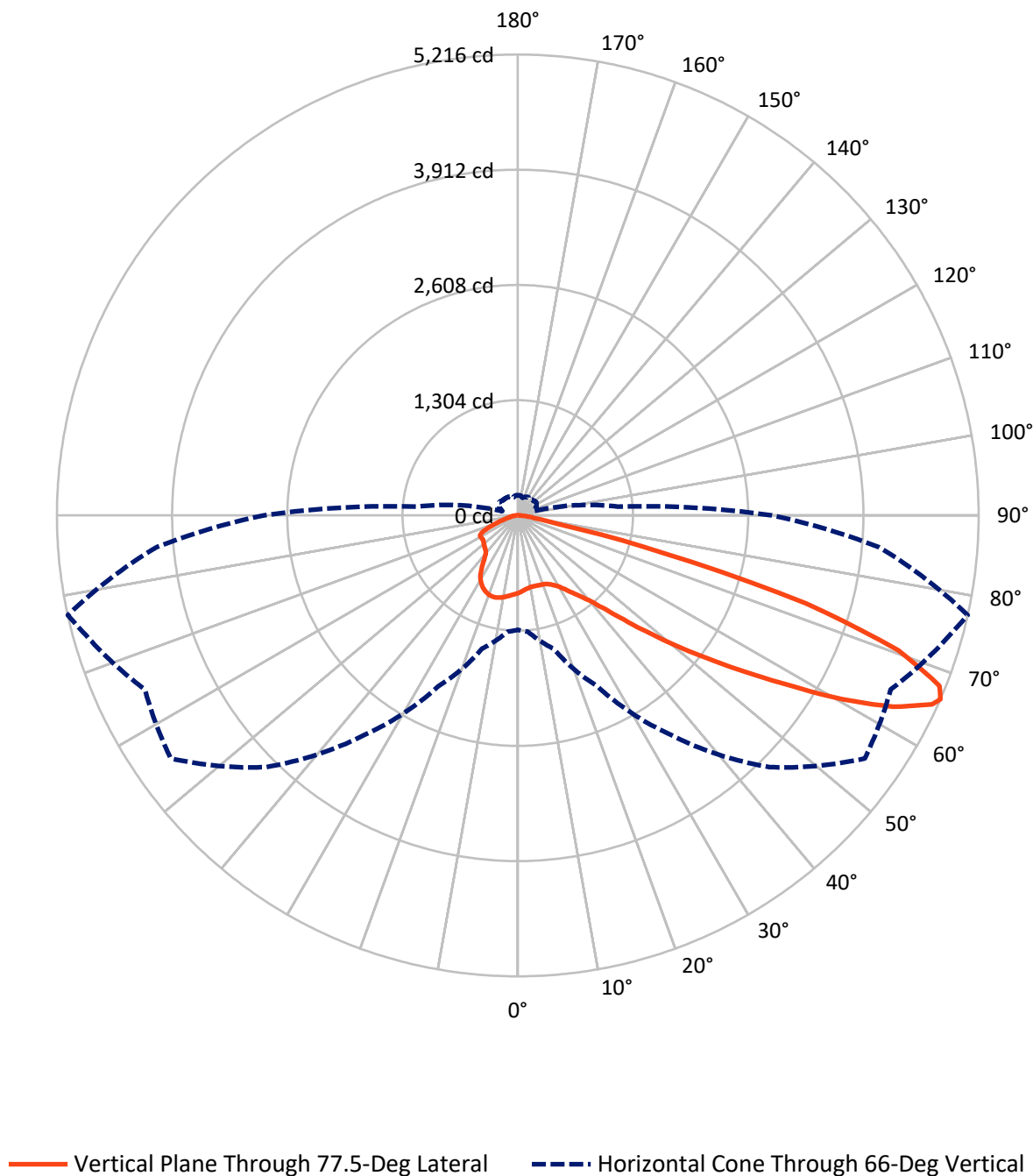


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P193229

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P193229

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

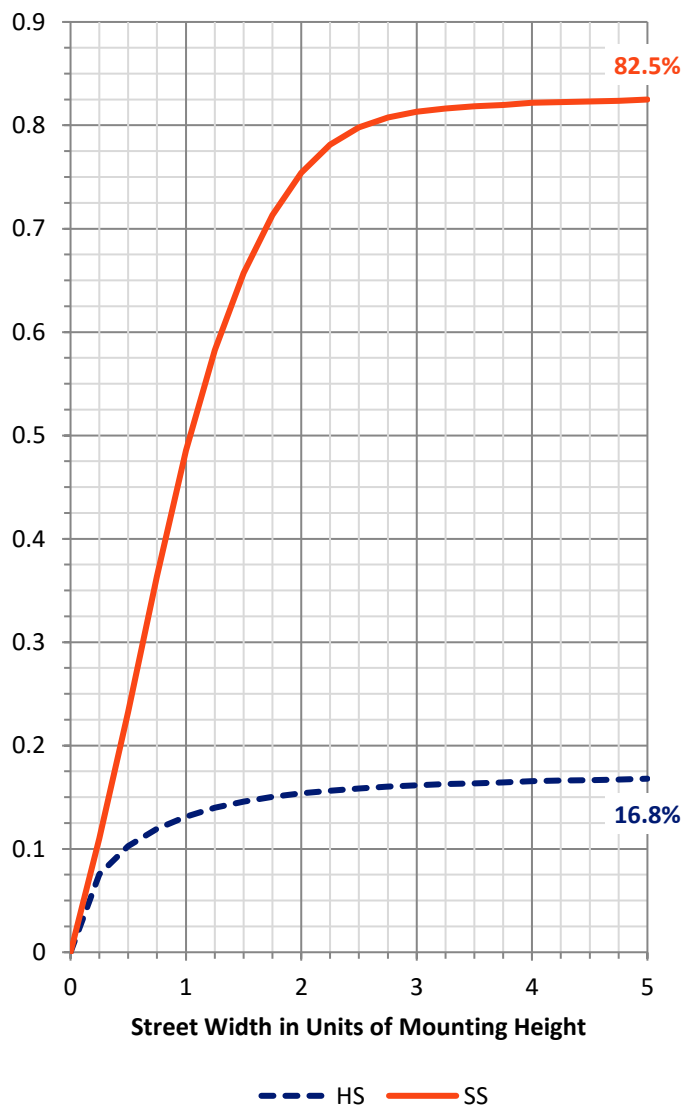
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1052.8   | 0.0    | 1052.8 |
|                    | % Fixture | 17.1     | 0.0    | 17.1   |
| <b>Street Side</b> | Lumens    | 5109.4   | 0.0    | 5109.4 |
|                    | % Fixture | 82.9     | 0.0    | 82.9   |
| <b>Total</b>       | Lumens    | 6162.2   | 0.0    | 6162.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.5   | 1.3       |
| 10°-20°   | 221.3  | 3.6       |
| 20°-30°   | 377.7  | 6.1       |
| 30°-40°   | 604.7  | 9.8       |
| 40°-50°   | 934.2  | 15.2      |
| 50°-60°   | 1325.0 | 21.5      |
| 60°-70°   | 1772.5 | 28.8      |
| 70°-80°   | 769.8  | 12.5      |
| 80°-90°   | 78.5   | 1.3       |
| 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°    | 6162.2 | 100.0     |
| 0°-180°   | 6162.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193229

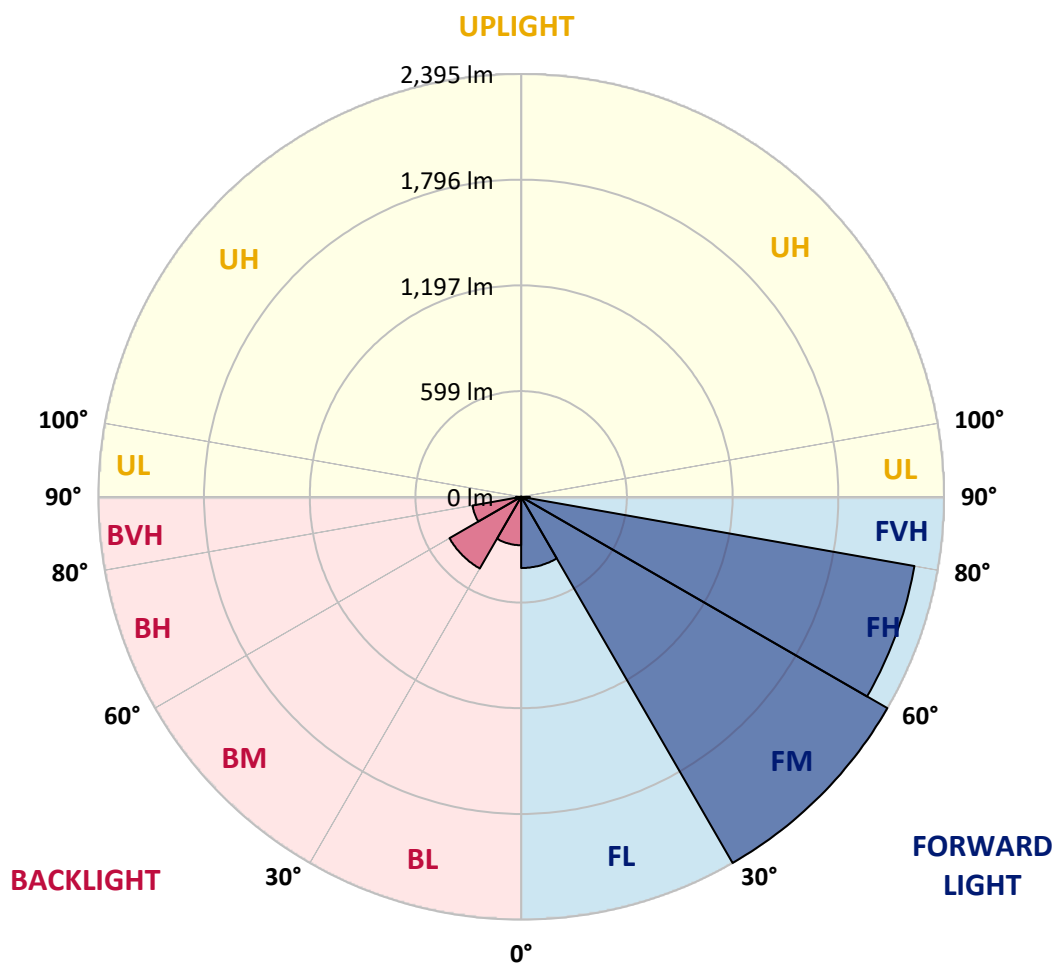
CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 403.3  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 2395.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 2261.9 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 49.2   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 274.2  | 4.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 468.9  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 280.4  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.3   | 0.5       |                         |      | 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 III Short



REPORT NUMBER: P193229

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77.5°  | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  | 878.1  |
| 2.5°  | 776.9  | 782.1  | 786.4  | 790.5  | 798.6  | 812.1  | 827.5  | 839.9  | 858.0  | 861.5  | 871.2  |
| 5°    | 705.5  | 705.5  | 709.0  | 715.1  | 726.1  | 746.2  | 767.2  | 795.2  | 834.5  | 843.8  | 869.3  |
| 7.5°  | 670.9  | 671.2  | 673.1  | 678.4  | 688.0  | 706.4  | 729.5  | 762.3  | 815.5  | 831.0  | 874.6  |
| 10°   | 683.6  | 680.6  | 676.5  | 673.8  | 675.2  | 685.9  | 707.8  | 744.5  | 803.9  | 823.7  | 886.3  |
| 12.5° | 755.3  | 749.7  | 734.6  | 714.5  | 695.3  | 687.5  | 700.3  | 736.1  | 798.9  | 821.9  | 901.7  |
| 15°   | 872.3  | 870.0  | 841.8  | 800.1  | 753.6  | 714.5  | 705.9  | 732.8  | 799.6  | 824.1  | 920.1  |
| 17.5° | 1019.1 | 1015.9 | 978.6  | 918.0  | 842.1  | 766.0  | 725.3  | 735.5  | 801.5  | 827.5  | 937.9  |
| 20°   | 1167.2 | 1157.4 | 1117.1 | 1044.9 | 947.5  | 836.3  | 757.6  | 742.2  | 804.1  | 831.3  | 956.4  |
| 22.5° | 1277.9 | 1269.8 | 1233.6 | 1163.5 | 1051.1 | 917.4  | 801.0  | 753.8  | 812.7  | 842.3  | 979.5  |
| 25°   | 1375.1 | 1375.8 | 1339.9 | 1272.1 | 1156.0 | 1003.6 | 856.9  | 785.0  | 834.2  | 865.0  | 1010.8 |
| 27.5° | 1495.4 | 1488.4 | 1454.9 | 1387.7 | 1259.5 | 1090.7 | 924.5  | 827.7  | 866.2  | 897.3  | 1052.2 |
| 30°   | 1639.2 | 1634.3 | 1595.6 | 1519.2 | 1374.6 | 1184.2 | 1001.6 | 877.6  | 907.5  | 939.8  | 1106.5 |
| 32.5° | 1808.5 | 1806.0 | 1765.8 | 1667.8 | 1507.3 | 1294.1 | 1092.1 | 943.4  | 969.2  | 1002.8 | 1184.2 |
| 35°   | 2007.0 | 2007.3 | 1959.8 | 1841.9 | 1652.6 | 1422.3 | 1195.0 | 1028.1 | 1044.4 | 1079.4 | 1276.7 |
| 37.5° | 2129.3 | 2144.1 | 2126.4 | 2006.1 | 1817.1 | 1565.5 | 1328.3 | 1140.4 | 1130.0 | 1165.2 | 1376.0 |
| 40°   | 2155.4 | 2173.5 | 2229.8 | 2168.6 | 2001.2 | 1723.3 | 1446.5 | 1248.5 | 1235.4 | 1278.5 | 1503.9 |
| 42.5° | 2118.7 | 2143.7 | 2262.6 | 2305.7 | 2196.5 | 1917.9 | 1605.4 | 1408.9 | 1392.3 | 1450.3 | 1662.8 |
| 45°   | 2096.9 | 2115.6 | 2253.0 | 2377.1 | 2366.0 | 2137.7 | 1807.8 | 1610.4 | 1604.3 | 1680.3 | 1846.3 |
| 47.5° | 2059.1 | 2076.0 | 2208.1 | 2393.7 | 2465.6 | 2339.2 | 2050.9 | 1856.8 | 1868.7 | 1968.3 | 2053.3 |
| 50°   | 2079.5 | 2086.6 | 2158.1 | 2351.5 | 2494.4 | 2486.8 | 2322.7 | 2142.0 | 2182.9 | 2307.1 | 2287.7 |
| 52.5° | 2076.6 | 2094.6 | 2152.3 | 2282.1 | 2498.2 | 2578.0 | 2590.2 | 2460.3 | 2546.2 | 2688.9 | 2547.7 |
| 55°   | 1678.9 | 1712.0 | 2083.9 | 2264.6 | 2511.6 | 2667.3 | 2828.4 | 2795.7 | 2955.9 | 3122.1 | 2841.2 |
| 57.5° | 1603.2 | 1624.1 | 1830.2 | 2301.3 | 2582.6 | 2838.0 | 3093.3 | 3164.9 | 3432.8 | 3625.9 | 3198.7 |
| 60°   | 1588.3 | 1614.2 | 1827.6 | 2346.3 | 2726.8 | 3116.1 | 3486.1 | 3611.9 | 4013.1 | 4224.5 | 3613.3 |
| 62.5° | 1541.9 | 1569.9 | 1810.4 | 2340.4 | 2931.4 | 3500.6 | 3988.9 | 4087.1 | 4563.4 | 4768.9 | 3960.1 |
| 65°   | 1395.2 | 1421.5 | 1670.3 | 2246.4 | 3069.4 | 3911.2 | 4584.1 | 4522.7 | 4997.8 | 5152.4 | 4133.1 |
| 66°   | 1294.8 | 1320.4 | 1560.0 | 2135.7 | 3037.4 | 4027.7 | 4794.9 | 4657.4 | 5095.1 | 5216.1 | 4099.3 |
| 67.5° | 1111.0 | 1131.2 | 1345.7 | 1887.9 | 2867.1 | 4060.3 | 4972.2 | 4758.8 | 5105.2 | 5148.1 | 3906.2 |
| 70°   | 702.0  | 707.8  | 874.6  | 1303.3 | 2170.3 | 3521.3 | 4702.3 | 4507.2 | 4684.3 | 4568.3 | 3274.7 |
| 72.5° | 304.5  | 302.5  | 419.9  | 662.9  | 1228.7 | 2362.7 | 3803.8 | 3718.9 | 3674.5 | 3410.1 | 2292.4 |
| 75°   | 169.5  | 171.7  | 218.1  | 307.8  | 499.4  | 1160.6 | 2488.3 | 2381.1 | 2010.5 | 1715.5 | 1039.5 |
| 77.5° | 135.9  | 139.2  | 180.9  | 218.4  | 224.2  | 404.7  | 1164.3 | 947.5  | 570.4  | 457.7  | 288.9  |
| 80°   | 107.4  | 113.3  | 157.8  | 170.0  | 151.1  | 166.8  | 376.2  | 300.8  | 225.6  | 207.0  | 149.6  |
| 82.5° | 85.0   | 89.0   | 135.4  | 128.7  | 105.7  | 112.4  | 180.3  | 175.6  | 146.7  | 133.7  | 86.5   |
| 85°   | 61.1   | 68.8   | 111.2  | 96.9   | 69.3   | 75.7   | 119.6  | 114.7  | 84.1   | 68.8   | 38.1   |
| 87.5° | 25.0   | 32.6   | 78.6   | 64.4   | 38.7   | 35.2   | 59.6   | 56.2   | 39.9   | 29.1   | 18.9   |
| 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: P193229

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 878.1  | 878.1  | 878.1 | 878.1 | 878.1 | 878.1 | 878.1 | 878.1 | 878.1 | 878.1 | 878.1 |
| 2.5°  | 877.3  | 884.2  | 893.3 | 898.7 | 901.7 | 903.8 | 907.0 | 906.7 | 907.5 | 907.8 | 909.0 |
| 5°    | 883.2  | 894.8  | 907.8 | 911.3 | 911.3 | 908.2 | 904.8 | 899.6 | 897.7 | 897.0 | 897.7 |
| 7.5°  | 898.2  | 911.0  | 922.3 | 918.4 | 909.6 | 896.8 | 880.2 | 865.7 | 857.8 | 855.2 | 854.5 |
| 10°   | 917.4  | 932.8  | 937.6 | 922.1 | 896.5 | 865.7 | 832.8 | 808.8 | 795.2 | 791.4 | 790.2 |
| 12.5° | 940.7  | 955.3  | 948.9 | 916.2 | 868.8 | 819.0 | 773.7 | 735.5 | 706.9 | 697.9 | 697.3 |
| 15°   | 966.4  | 977.8  | 955.3 | 898.2 | 827.5 | 754.1 | 673.1 | 607.4 | 571.9 | 560.5 | 559.6 |
| 17.5° | 990.2  | 996.1  | 951.5 | 866.8 | 766.7 | 647.8 | 540.4 | 489.7 | 477.5 | 480.4 | 481.0 |
| 20°   | 1010.6 | 1010.6 | 938.7 | 821.6 | 670.9 | 507.8 | 440.0 | 439.1 | 447.9 | 456.6 | 458.4 |
| 22.5° | 1033.0 | 1019.6 | 916.2 | 757.9 | 535.2 | 415.5 | 405.6 | 413.8 | 423.6 | 433.2 | 434.8 |
| 25°   | 1060.7 | 1026.9 | 885.1 | 661.2 | 420.7 | 377.4 | 381.1 | 387.9 | 392.8 | 398.9 | 399.8 |
| 27.5° | 1091.6 | 1036.3 | 844.0 | 528.2 | 365.2 | 353.5 | 356.4 | 358.7 | 358.2 | 360.4 | 361.0 |
| 30°   | 1128.5 | 1047.0 | 787.9 | 412.9 | 342.1 | 333.1 | 327.9 | 325.8 | 325.8 | 329.6 | 331.0 |
| 32.5° | 1178.1 | 1063.0 | 707.2 | 353.8 | 331.0 | 318.5 | 301.7 | 294.1 | 296.9 | 309.8 | 312.7 |
| 35°   | 1232.5 | 1080.2 | 598.0 | 333.7 | 328.8 | 311.8 | 285.6 | 271.6 | 271.9 | 283.8 | 287.7 |
| 37.5° | 1291.9 | 1102.1 | 478.3 | 329.9 | 334.0 | 312.2 | 277.2 | 258.0 | 250.1 | 250.1 | 251.6 |
| 40°   | 1367.9 | 1124.5 | 387.3 | 332.4 | 345.0 | 315.6 | 272.8 | 247.2 | 225.1 | 225.6 | 226.8 |
| 42.5° | 1467.0 | 1143.7 | 338.3 | 338.0 | 358.4 | 320.2 | 272.5 | 232.9 | 213.7 | 226.8 | 238.7 |
| 45°   | 1576.9 | 1153.3 | 316.8 | 343.0 | 369.2 | 323.2 | 267.9 | 230.6 | 215.1 | 254.1 | 276.9 |
| 47.5° | 1703.6 | 1147.8 | 304.9 | 344.7 | 371.8 | 323.2 | 262.7 | 236.1 | 225.4 | 294.4 | 320.9 |
| 50°   | 1842.4 | 1131.7 | 293.3 | 341.2 | 370.9 | 322.7 | 267.5 | 241.7 | 229.1 | 301.3 | 319.7 |
| 52.5° | 2005.8 | 1118.4 | 281.1 | 333.7 | 364.8 | 319.4 | 273.3 | 239.4 | 217.2 | 274.0 | 286.8 |
| 55°   | 2192.2 | 1122.1 | 267.2 | 322.9 | 355.2 | 313.2 | 271.4 | 230.0 | 204.7 | 241.4 | 249.2 |
| 57.5° | 2430.4 | 1167.2 | 251.0 | 309.2 | 342.1 | 303.0 | 264.1 | 225.6 | 200.9 | 218.9 | 223.7 |
| 60°   | 2696.2 | 1245.9 | 230.6 | 295.5 | 325.8 | 286.8 | 258.5 | 227.7 | 202.6 | 217.2 | 219.5 |
| 62.5° | 2891.2 | 1291.6 | 213.2 | 275.5 | 303.6 | 268.8 | 251.6 | 230.3 | 207.3 | 223.3 | 222.8 |
| 65°   | 2944.2 | 1216.5 | 191.3 | 246.1 | 273.7 | 249.7 | 242.9 | 233.3 | 209.3 | 228.3 | 225.6 |
| 66°   | 2870.0 | 1135.5 | 181.7 | 232.4 | 258.5 | 240.5 | 238.5 | 232.9 | 208.4 | 228.9 | 224.5 |
| 67.5° | 2689.8 | 969.5  | 165.1 | 212.3 | 234.4 | 226.5 | 231.5 | 230.3 | 206.2 | 228.3 | 222.2 |
| 70°   | 2193.6 | 661.6  | 141.2 | 176.8 | 195.0 | 199.4 | 218.1 | 221.0 | 198.6 | 218.1 | 204.7 |
| 72.5° | 1532.7 | 402.9  | 124.9 | 137.1 | 157.8 | 170.0 | 199.7 | 208.1 | 188.4 | 190.4 | 177.6 |
| 75°   | 740.7  | 214.0  | 113.3 | 106.3 | 122.6 | 142.0 | 177.6 | 190.6 | 172.4 | 159.3 | 154.6 |
| 77.5° | 230.9  | 130.8  | 96.0  | 85.5  | 96.0  | 114.7 | 148.5 | 167.1 | 153.4 | 133.4 | 131.6 |
| 80°   | 124.0  | 96.0   | 74.0  | 68.8  | 76.1  | 89.9  | 116.8 | 139.5 | 131.8 | 119.6 | 106.8 |
| 82.5° | 81.8   | 62.3   | 54.7  | 53.3  | 57.9  | 68.8  | 86.8  | 115.6 | 115.6 | 102.4 | 74.6  |
| 85°   | 42.2   | 38.1   | 37.5  | 37.5  | 40.4  | 45.7  | 59.1  | 89.0  | 94.9  | 54.2  | 44.8  |
| 87.5° | 21.0   | 21.9   | 20.4  | 21.3  | 22.7  | 22.4  | 28.2  | 44.8  | 53.5  | 32.9  | 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   |

(END OF REPORT)