

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: P269417

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30353.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): 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

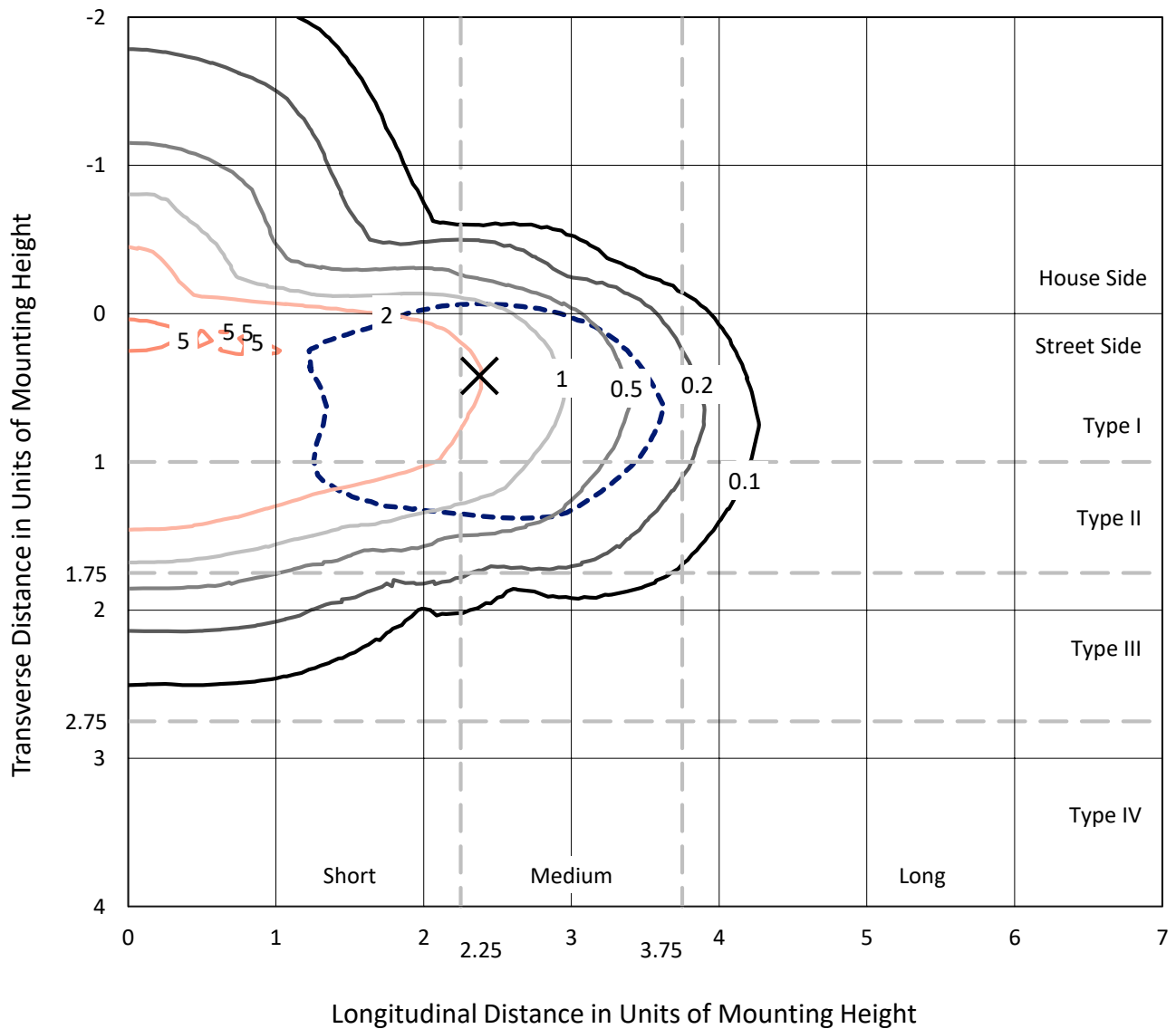


REPORT NUMBER: P269417

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

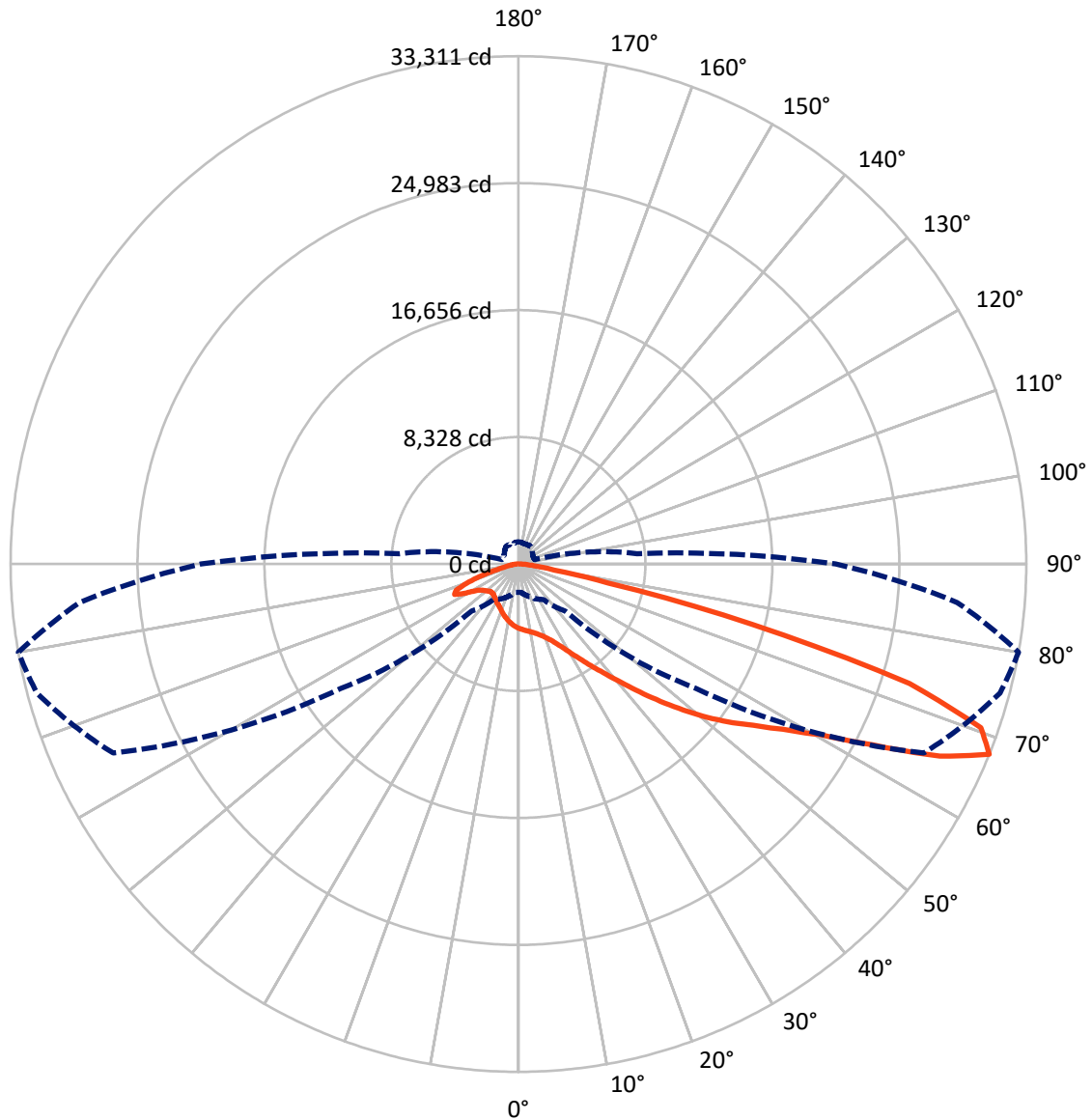


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269417

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269417

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5589.9 | 0.0 | 5589.9 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 24763.4 | 0.0 | 24763.4 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 30353.3 | 0.0 | 30353.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 389.0 | 1.3 |
| 10°-20° | 1120.6 | 3.7 |
| 20°-30° | 1854.8 | 6.1 |
| 30°-40° | 3034.0 | 10.0 |
| 40°-50° | 4898.7 | 16.1 |
| 50°-60° | 7072.3 | 23.3 |
| 60°-70° | 7804.7 | 25.7 |
| 70°-80° | 3597.5 | 11.9 |
| 80°-90° | 581.9 | 1.9 |
| 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° | 30353.3 | 100.0 |
| 0°-180° | 30353.3 | 100.0 |



REPORT NUMBER: P269417

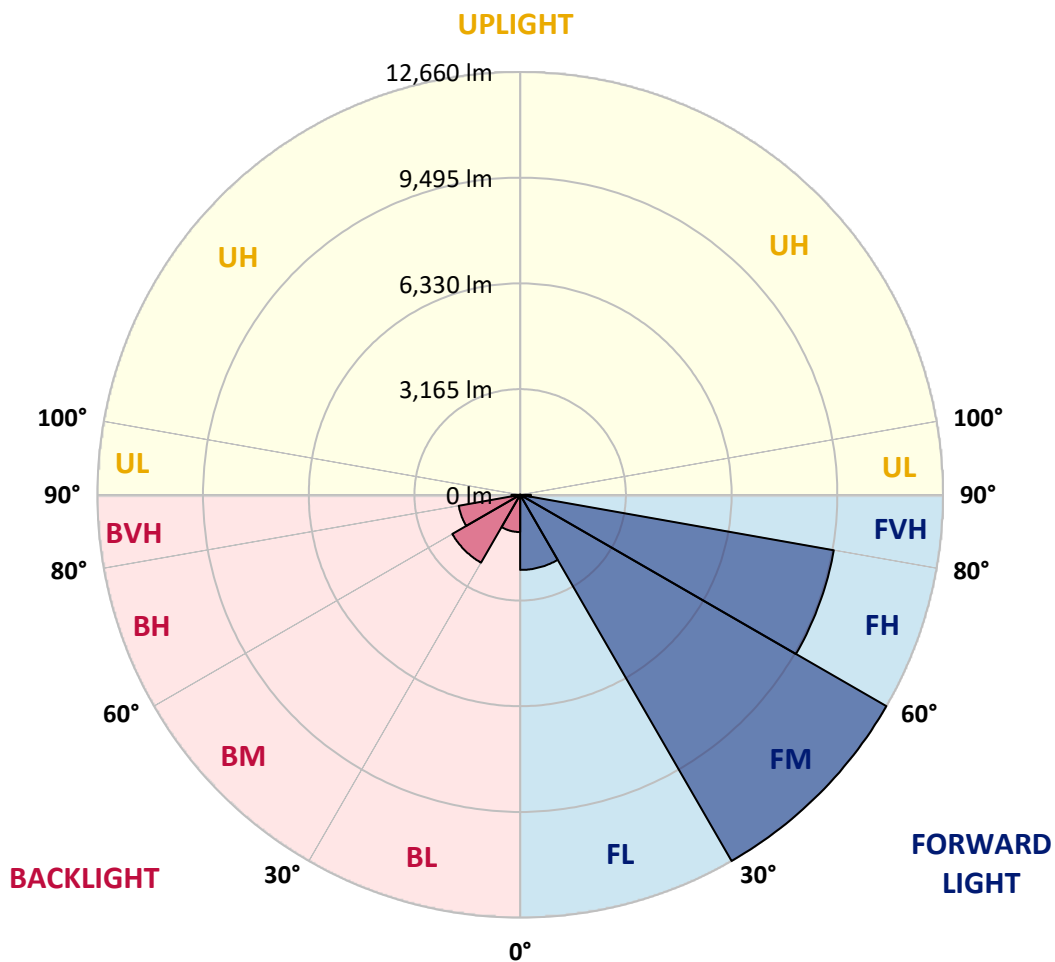
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2249.1 | 7.4 | | | |
| FM | (30°-60°) | 12659.6 | 41.7 | | | |
| FH | (60°-80°) | 9534.8 | 31.4 | | | G4/12000 |
| FVH | (80°-90°) | 319.9 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1115.3 | 3.7 | B3/2500 | | |
| BM | (30°-60°) | 2345.3 | 7.7 | B2/2500 | | |
| BH | (60°-80°) | 1867.4 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 262.0 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P269417

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 |
| 2.5° | 4612.9 | 4586.0 | 4590.5 | 4583.1 | 4560.6 | 4521.8 | 4479.9 | 4403.8 | 4324.5 | 4282.7 | 4249.8 |
| 5° | 4998.4 | 4991.1 | 4980.6 | 4956.7 | 4899.9 | 4819.1 | 4719.1 | 4584.6 | 4439.7 | 4363.3 | 4290.1 |
| 7.5° | 5286.9 | 5282.5 | 5269.0 | 5253.9 | 5198.8 | 5101.6 | 4950.6 | 4759.4 | 4548.7 | 4444.1 | 4330.5 |
| 10° | 5310.8 | 5318.2 | 5328.7 | 5369.1 | 5376.5 | 5324.3 | 5170.4 | 4938.7 | 4662.3 | 4527.7 | 4382.8 |
| 12.5° | 5107.6 | 5124.0 | 5164.4 | 5267.4 | 5376.5 | 5440.9 | 5361.7 | 5126.9 | 4795.2 | 4632.4 | 4448.5 |
| 15° | 4838.6 | 4847.6 | 4896.9 | 5038.9 | 5234.6 | 5433.3 | 5508.0 | 5334.8 | 4967.1 | 4766.9 | 4547.2 |
| 17.5° | 4723.6 | 4728.0 | 4762.4 | 4856.5 | 5038.9 | 5322.7 | 5590.2 | 5560.4 | 5177.8 | 4934.2 | 4668.2 |
| 20° | 4665.3 | 4675.7 | 4725.1 | 4817.7 | 4932.8 | 5180.7 | 5602.2 | 5803.9 | 5428.8 | 5143.4 | 4820.7 |
| 22.5° | 4831.2 | 4826.7 | 4844.6 | 4890.9 | 4988.0 | 5137.4 | 5593.2 | 6054.9 | 5748.7 | 5412.4 | 5019.4 |
| 25° | 5218.2 | 5234.6 | 5203.3 | 5150.9 | 5182.3 | 5286.9 | 5641.0 | 6326.9 | 6149.1 | 5757.5 | 5279.3 |
| 27.5° | 5769.5 | 5753.1 | 5706.8 | 5584.3 | 5519.9 | 5564.8 | 5799.5 | 6619.8 | 6646.6 | 6211.9 | 5623.1 |
| 30° | 6319.4 | 6306.0 | 6261.1 | 6111.8 | 5980.2 | 5942.8 | 6107.2 | 6956.0 | 7240.0 | 6757.3 | 6044.4 |
| 32.5° | 6890.3 | 6875.4 | 6833.4 | 6684.1 | 6525.6 | 6439.1 | 6545.1 | 7344.5 | 7939.3 | 7408.9 | 6540.6 |
| 35° | 7594.1 | 7565.7 | 7477.5 | 7269.9 | 7114.4 | 7047.3 | 7096.5 | 7833.2 | 8746.2 | 8179.8 | 7142.9 |
| 37.5° | 8256.1 | 8299.4 | 8209.8 | 7922.8 | 7721.1 | 7697.1 | 7752.6 | 8429.4 | 9615.8 | 9042.1 | 7834.7 |
| 40° | 8921.1 | 8928.6 | 8847.9 | 8613.2 | 8405.5 | 8366.6 | 8505.6 | 9152.7 | 10642.5 | 10073.1 | 8676.0 |
| 42.5° | 9608.5 | 9623.5 | 9487.4 | 9270.7 | 9118.3 | 9125.8 | 9284.2 | 9999.9 | 11820.0 | 11288.0 | 9644.4 |
| 45° | 10422.9 | 10445.2 | 10295.8 | 10011.9 | 9872.9 | 10152.4 | 10086.6 | 10950.2 | 13111.1 | 12668.7 | 10756.0 |
| 47.5° | 11274.5 | 11308.9 | 11195.3 | 10929.4 | 10756.0 | 11140.2 | 10889.1 | 12003.8 | 14500.8 | 14149.7 | 11976.9 |
| 50° | 11739.3 | 11788.6 | 11899.2 | 11879.7 | 11842.4 | 11778.1 | 11784.1 | 13133.5 | 15933.9 | 15691.9 | 13232.2 |
| 52.5° | 11489.9 | 11488.3 | 11891.8 | 12381.9 | 12905.0 | 12943.8 | 12875.0 | 14324.6 | 17272.8 | 17199.6 | 14414.2 |
| 55° | 10348.1 | 10425.8 | 11037.0 | 11985.8 | 13414.5 | 14306.5 | 14509.9 | 15688.8 | 18587.8 | 18673.0 | 15614.1 |
| 57.5° | 8447.3 | 8511.6 | 9336.4 | 10659.0 | 12727.0 | 15116.5 | 16835.0 | 17671.7 | 20058.2 | 20455.7 | 17211.5 |
| 60° | 5729.2 | 5807.0 | 6681.1 | 8269.5 | 10877.0 | 14665.2 | 19048.0 | 21210.3 | 21818.6 | 22722.5 | 19452.9 |
| 62.5° | 3366.7 | 3436.9 | 4149.7 | 5216.6 | 7658.4 | 12568.6 | 20019.4 | 26244.6 | 24614.4 | 26143.1 | 22871.9 |
| 65° | 2317.6 | 2365.4 | 2712.3 | 3247.2 | 4400.7 | 8465.3 | 18814.9 | 29720.5 | 28916.5 | 30380.9 | 26836.3 |
| 67.5° | 1864.9 | 1859.0 | 2133.8 | 2498.5 | 2833.3 | 4364.9 | 14227.4 | 29327.4 | 32700.1 | 33311.3 | 28894.1 |
| 70° | 1536.1 | 1530.2 | 1717.0 | 2018.9 | 2263.9 | 2458.1 | 7749.5 | 24748.8 | 31929.0 | 32177.1 | 26999.3 |
| 72.5° | 1285.1 | 1291.0 | 1410.6 | 1634.7 | 1857.4 | 1851.4 | 3405.6 | 17410.3 | 25118.0 | 26833.5 | 21522.6 |
| 75° | 1084.9 | 1087.8 | 1167.1 | 1325.4 | 1507.7 | 1491.4 | 1846.9 | 9432.2 | 14601.0 | 15794.9 | 11930.6 |
| 77.5° | 923.5 | 926.5 | 977.3 | 1065.4 | 1195.5 | 1189.4 | 1347.8 | 4075.0 | 6090.8 | 6016.0 | 4081.0 |
| 80° | 823.3 | 823.3 | 847.3 | 863.7 | 935.5 | 908.5 | 999.8 | 1957.5 | 2574.7 | 2377.5 | 1628.7 |
| 82.5° | 645.5 | 648.5 | 795.0 | 789.0 | 736.7 | 702.4 | 702.4 | 1153.7 | 1364.3 | 1261.2 | 953.5 |
| 85° | 363.2 | 361.6 | 512.6 | 618.7 | 648.5 | 494.6 | 490.1 | 645.5 | 742.7 | 654.5 | 461.8 |
| 87.5° | 155.3 | 158.5 | 237.6 | 274.9 | 367.5 | 307.8 | 303.4 | 333.2 | 378.0 | 327.3 | 213.6 |
| 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: P269417

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 | 4217.0 |
| 2.5° | 4218.4 | 4179.6 | 4094.5 | 3988.4 | 3892.6 | 3830.0 | 3773.2 | 3691.0 | 3695.4 | 3638.7 | 3596.9 |
| 5° | 4215.4 | 4134.8 | 3937.5 | 3703.0 | 3477.2 | 3314.3 | 3191.9 | 3081.2 | 3054.3 | 3002.0 | 2970.7 |
| 7.5° | 4218.4 | 4087.0 | 3755.3 | 3380.1 | 3100.7 | 2894.5 | 2789.9 | 2731.6 | 2718.1 | 2700.2 | 2701.7 |
| 10° | 4229.0 | 4043.6 | 3555.0 | 3078.3 | 2785.5 | 2649.5 | 2623.9 | 2641.9 | 2662.8 | 2668.9 | 2670.3 |
| 12.5° | 4252.8 | 4004.7 | 3335.2 | 2809.3 | 2588.1 | 2546.3 | 2589.6 | 2650.9 | 2691.2 | 2710.6 | 2709.2 |
| 15° | 4306.7 | 3974.9 | 3124.7 | 2598.5 | 2479.1 | 2501.5 | 2582.2 | 2668.9 | 2727.2 | 2754.1 | 2755.6 |
| 17.5° | 4364.9 | 3931.5 | 2908.0 | 2437.2 | 2398.4 | 2455.2 | 2555.3 | 2656.8 | 2728.6 | 2758.5 | 2764.4 |
| 20° | 4441.1 | 3877.8 | 2680.8 | 2316.2 | 2322.2 | 2386.3 | 2480.6 | 2582.2 | 2661.4 | 2686.8 | 2698.8 |
| 22.5° | 4541.2 | 3819.5 | 2482.0 | 2217.6 | 2235.5 | 2284.7 | 2358.1 | 2446.2 | 2515.0 | 2526.9 | 2537.4 |
| 25° | 4675.7 | 3756.7 | 2323.6 | 2127.9 | 2135.5 | 2163.7 | 2213.1 | 2265.3 | 2313.1 | 2299.8 | 2310.3 |
| 27.5° | 4856.5 | 3703.0 | 2205.6 | 2045.7 | 2032.2 | 2038.3 | 2063.6 | 2080.0 | 2105.4 | 2068.2 | 2072.6 |
| 30° | 5068.7 | 3644.7 | 2114.5 | 1973.9 | 1936.7 | 1926.1 | 1932.2 | 1941.1 | 1960.6 | 1909.7 | 1902.3 |
| 32.5° | 5315.4 | 3574.4 | 2029.4 | 1911.2 | 1859.0 | 1838.0 | 1840.9 | 1864.9 | 1939.6 | 1908.2 | 1891.8 |
| 35° | 5602.2 | 3495.1 | 1939.6 | 1842.6 | 1806.6 | 1776.8 | 1773.8 | 1848.4 | 2071.1 | 2051.6 | 2036.7 |
| 37.5° | 5938.4 | 3416.1 | 1850.0 | 1764.8 | 1767.8 | 1734.8 | 1724.4 | 1809.6 | 2096.6 | 2020.3 | 2009.9 |
| 40° | 6365.7 | 3374.2 | 1773.8 | 1682.5 | 1720.0 | 1715.5 | 1694.6 | 1738.0 | 1929.2 | 1790.2 | 1772.3 |
| 42.5° | 6894.9 | 3380.1 | 1717.0 | 1594.4 | 1663.2 | 1711.0 | 1678.2 | 1679.7 | 1748.3 | 1643.8 | 1627.3 |
| 45° | 7547.7 | 3450.4 | 1676.6 | 1524.2 | 1599.0 | 1706.5 | 1672.1 | 1648.2 | 1654.1 | 1599.0 | 1589.9 |
| 47.5° | 8310.0 | 3595.3 | 1648.2 | 1465.9 | 1537.7 | 1690.2 | 1670.7 | 1639.2 | 1625.8 | 1595.8 | 1588.5 |
| 50° | 9157.1 | 3805.9 | 1627.3 | 1410.6 | 1482.4 | 1663.2 | 1672.1 | 1630.3 | 1615.3 | 1603.5 | 1599.0 |
| 52.5° | 9989.5 | 4046.7 | 1595.8 | 1362.8 | 1439.1 | 1630.3 | 1676.6 | 1621.4 | 1604.9 | 1595.8 | 1591.4 |
| 55° | 10917.6 | 4347.0 | 1548.0 | 1322.5 | 1403.2 | 1588.5 | 1676.6 | 1607.8 | 1589.9 | 1591.4 | 1589.9 |
| 57.5° | 12171.1 | 4832.6 | 1491.4 | 1288.1 | 1359.9 | 1537.7 | 1648.2 | 1593.0 | 1570.5 | 1572.0 | 1573.6 |
| 60° | 14130.2 | 5688.8 | 1422.6 | 1253.8 | 1306.0 | 1477.9 | 1609.4 | 1560.0 | 1537.7 | 1543.6 | 1545.2 |
| 62.5° | 17011.3 | 6945.5 | 1332.9 | 1202.9 | 1249.3 | 1413.7 | 1555.5 | 1518.2 | 1495.8 | 1510.8 | 1510.8 |
| 65° | 20006.0 | 8054.4 | 1222.4 | 1138.7 | 1189.4 | 1343.3 | 1488.3 | 1465.9 | 1443.4 | 1477.9 | 1476.4 |
| 67.5° | 20811.4 | 7806.4 | 1111.7 | 1068.4 | 1129.7 | 1265.7 | 1407.6 | 1395.6 | 1383.7 | 1443.4 | 1440.5 |
| 70° | 18487.7 | 6267.1 | 1010.1 | 996.7 | 1064.0 | 1182.0 | 1321.0 | 1321.0 | 1313.5 | 1358.3 | 1347.8 |
| 72.5° | 14085.5 | 4444.1 | 913.0 | 920.6 | 989.3 | 1090.8 | 1226.8 | 1237.2 | 1225.4 | 1247.7 | 1238.9 |
| 75° | 7540.4 | 2543.3 | 815.9 | 836.9 | 896.6 | 998.1 | 1122.3 | 1132.8 | 1125.1 | 1123.7 | 1128.2 |
| 77.5° | 2505.9 | 1243.3 | 714.3 | 747.2 | 799.4 | 902.5 | 1013.2 | 1029.5 | 1011.6 | 1008.6 | 1007.2 |
| 80° | 1116.2 | 781.5 | 602.3 | 645.5 | 691.9 | 793.6 | 898.0 | 911.5 | 892.0 | 919.0 | 884.7 |
| 82.5° | 717.2 | 514.0 | 482.7 | 530.4 | 575.4 | 684.4 | 783.1 | 785.9 | 768.1 | 892.0 | 760.7 |
| 85° | 348.2 | 318.3 | 363.2 | 406.5 | 445.3 | 537.9 | 648.5 | 650.1 | 605.2 | 551.4 | 531.9 |
| 87.5° | 173.4 | 185.3 | 242.1 | 280.9 | 300.4 | 369.2 | 472.1 | 463.3 | 443.9 | 403.5 | 372.1 |
| 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)