

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: P191918

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33163 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

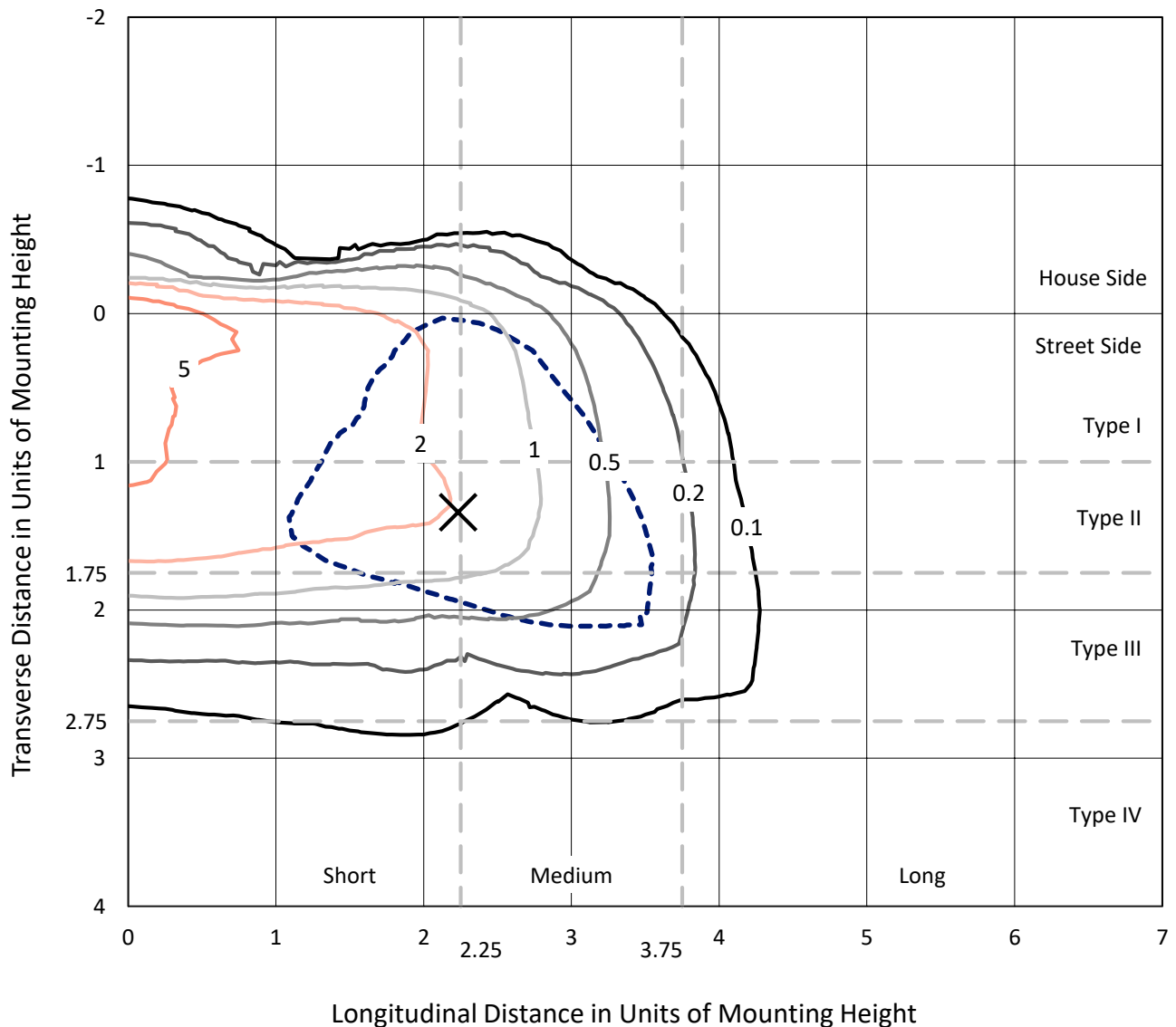
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191918
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

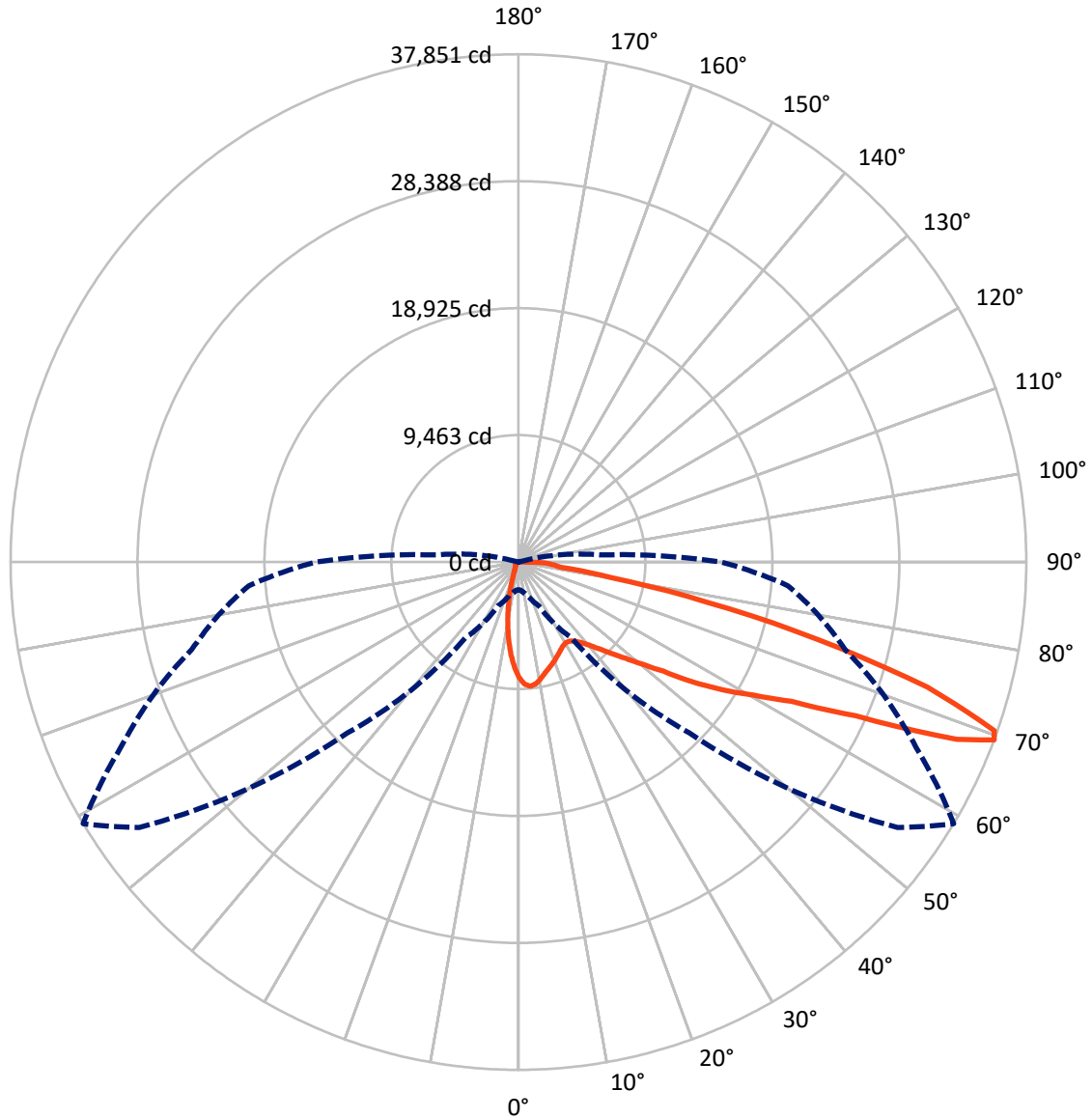


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191918

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191918

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2700.7 | 0.0 | 2700.7 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 30462.3 | 0.0 | 30462.3 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 33163.0 | 0.0 | 33163.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 700.7 | 2.1 |
| 10°-20° | 1447.7 | 4.4 |
| 20°-30° | 1948.1 | 5.9 |
| 30°-40° | 2828.5 | 8.5 |
| 40°-50° | 4709.7 | 14.2 |
| 50°-60° | 7347.1 | 22.2 |
| 60°-70° | 9091.5 | 27.4 |
| 70°-80° | 4607.5 | 13.9 |
| 80°-90° | 482.1 | 1.5 |
| 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° | 33163.0 | 100.0 |
| 0°-180° | 33163.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191918

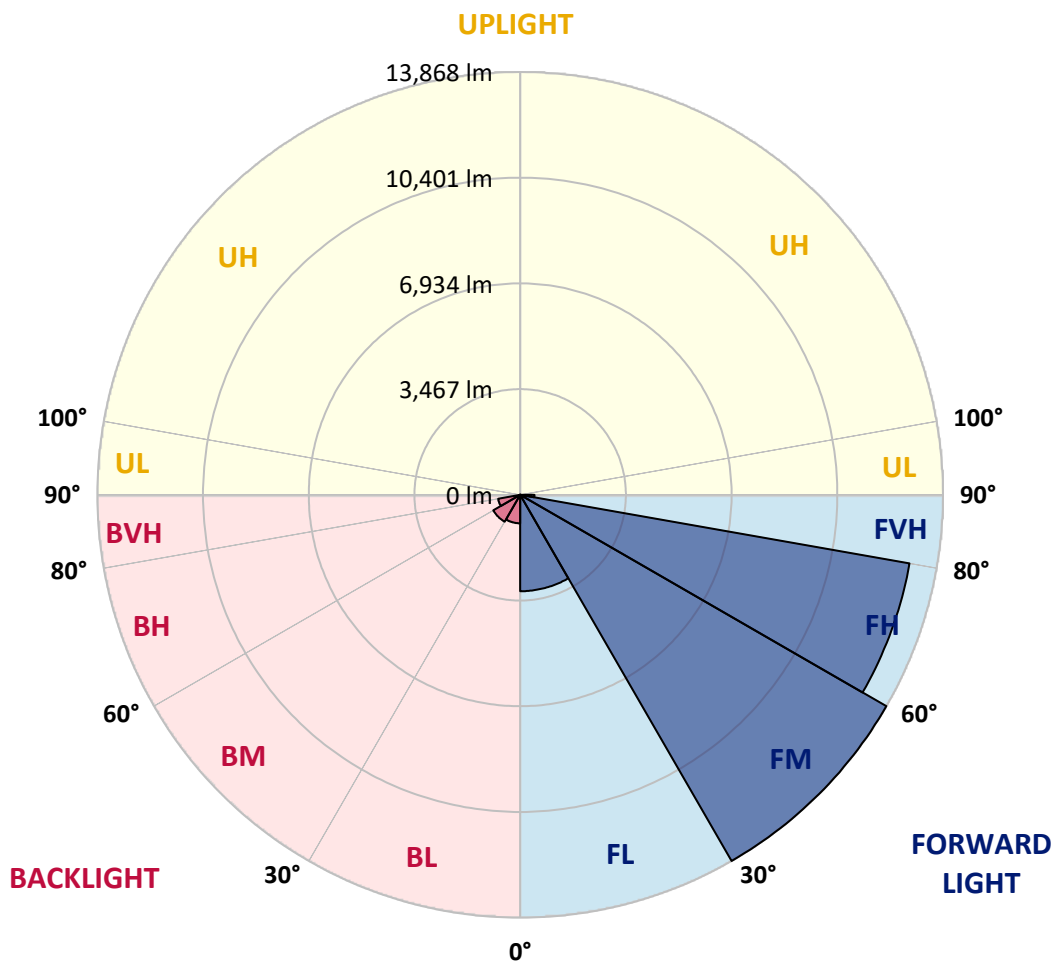
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3161.7 | 9.5 | | | |
| FM (30°-60°) | 13867.8 | 41.8 | | | |
| FH (60°-80°) | 12965.5 | 39.1 | | | G5 |
| FVH (80°-90°) | 467.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 934.8 | 2.8 | B2/1000 | | |
| BM (30°-60°) | 1017.6 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 733.4 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 14.8 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type III Short





REPORT NUMBER: P191918

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 |
| 2.5° | 9460.7 | 9457.0 | 9415.7 | 9397.0 | 9363.2 | 9292.0 | 9181.3 | 9123.2 | 9029.4 | 8866.3 | 8646.9 |
| 5° | 9374.5 | 9419.5 | 9443.9 | 9445.7 | 9470.1 | 9443.9 | 9344.5 | 9295.7 | 9166.3 | 8903.8 | 8510.0 |
| 7.5° | 8789.4 | 8806.3 | 8875.7 | 8935.7 | 9051.9 | 9162.6 | 9198.2 | 9177.6 | 9100.7 | 8819.4 | 8296.2 |
| 10° | 8163.1 | 8179.9 | 8262.4 | 8341.2 | 8498.7 | 8669.4 | 8849.4 | 8886.9 | 8918.8 | 8699.4 | 8089.9 |
| 12.5° | 7623.0 | 7639.9 | 7724.2 | 7827.4 | 8011.2 | 8221.2 | 8500.6 | 8562.5 | 8703.1 | 8585.0 | 7924.9 |
| 15° | 7157.9 | 7165.4 | 7247.9 | 7375.4 | 7594.8 | 7864.9 | 8181.8 | 8281.2 | 8496.9 | 8504.4 | 7780.5 |
| 17.5° | 6762.2 | 6781.0 | 6831.6 | 6953.5 | 7193.5 | 7527.3 | 7896.8 | 8039.3 | 8292.4 | 8436.8 | 7639.9 |
| 20° | 6520.3 | 6539.1 | 6537.2 | 6604.7 | 6820.4 | 7176.7 | 7611.7 | 7782.4 | 8089.9 | 8367.5 | 7514.2 |
| 22.5° | 6473.4 | 6473.4 | 6424.7 | 6415.3 | 6542.8 | 6841.0 | 7315.4 | 7523.6 | 7908.0 | 8337.5 | 7426.1 |
| 25° | 6640.3 | 6632.8 | 6510.9 | 6411.6 | 6417.2 | 6595.3 | 7028.5 | 7276.0 | 7754.2 | 8358.1 | 7379.2 |
| 27.5° | 6992.9 | 6983.5 | 6829.7 | 6640.3 | 6488.4 | 6486.6 | 6811.0 | 7077.3 | 7632.4 | 8455.6 | 7397.9 |
| 30° | 7480.5 | 7476.7 | 7309.8 | 7071.6 | 6796.0 | 6542.8 | 6736.0 | 6977.9 | 7553.6 | 8631.9 | 7441.1 |
| 32.5° | 8013.0 | 8007.4 | 7881.8 | 7630.5 | 7281.7 | 6796.0 | 6814.7 | 7017.3 | 7576.1 | 8866.3 | 7546.1 |
| 35° | 8577.5 | 8568.1 | 8513.7 | 8294.3 | 7909.9 | 7262.9 | 7073.5 | 7231.0 | 7718.6 | 9217.0 | 7752.4 |
| 37.5° | 9188.8 | 9198.2 | 9237.6 | 9027.6 | 8624.4 | 7917.4 | 7506.7 | 7613.6 | 8005.5 | 9693.3 | 8088.0 |
| 40° | 10090.8 | 10089.0 | 10102.1 | 9826.4 | 9438.2 | 8718.1 | 8112.4 | 8146.2 | 8485.6 | 10325.2 | 8598.1 |
| 42.5° | 11727.9 | 11613.6 | 11266.6 | 10704.0 | 10314.0 | 9633.3 | 8875.7 | 8840.0 | 9072.6 | 11107.2 | 9312.6 |
| 45° | 13927.6 | 13683.8 | 12783.7 | 11705.4 | 11206.6 | 10664.7 | 9815.2 | 9700.8 | 9848.9 | 12046.7 | 10194.0 |
| 47.5° | 15819.8 | 15566.6 | 14293.3 | 12748.1 | 12153.6 | 11643.6 | 10915.9 | 10709.7 | 10758.4 | 13098.8 | 11311.6 |
| 50° | 16463.0 | 16339.2 | 15227.2 | 13655.7 | 13070.6 | 12875.6 | 12193.0 | 11941.7 | 11872.3 | 14315.8 | 12607.4 |
| 52.5° | 16239.8 | 16230.5 | 15489.7 | 14244.6 | 13910.8 | 14150.8 | 13800.1 | 13509.4 | 13254.4 | 15598.5 | 13925.8 |
| 55° | 15881.7 | 15928.5 | 15596.6 | 14760.3 | 14749.0 | 15315.3 | 15997.9 | 15756.0 | 15017.2 | 16991.8 | 15062.2 |
| 57.5° | 14893.4 | 15094.1 | 15536.6 | 15735.4 | 16196.7 | 16776.2 | 17828.2 | 17970.7 | 17096.8 | 18058.9 | 16005.4 |
| 60° | 12084.2 | 12524.9 | 13972.6 | 15876.0 | 18062.6 | 19506.6 | 20037.3 | 20159.2 | 18803.3 | 18945.9 | 17278.7 |
| 62.5° | 8577.5 | 9027.6 | 10863.4 | 14083.3 | 18090.7 | 23094.0 | 23328.4 | 22850.2 | 20682.4 | 20260.4 | 19474.7 |
| 65° | 4553.2 | 4900.1 | 6400.3 | 10165.8 | 15684.8 | 23926.6 | 29083.6 | 27658.4 | 23997.8 | 22846.4 | 22312.0 |
| 67.5° | 2329.1 | 2434.1 | 3030.4 | 4975.1 | 10782.8 | 21252.4 | 34242.4 | 35245.7 | 29711.8 | 25411.8 | 22175.1 |
| 69° | 2060.9 | 2122.8 | 2518.5 | 3596.8 | 6904.7 | 18000.7 | 34493.7 | 37850.5 | 32702.8 | 25198.0 | 20151.7 |
| 70° | 1995.3 | 2049.7 | 2409.7 | 3255.5 | 5397.0 | 15095.9 | 33531.7 | 37621.7 | 33468.0 | 24384.1 | 18640.2 |
| 72.5° | 1693.4 | 1740.3 | 2145.3 | 2876.7 | 4386.3 | 7493.6 | 27238.3 | 31879.6 | 30032.5 | 20312.9 | 13492.6 |
| 75° | 1132.7 | 1286.4 | 2059.0 | 2696.6 | 4080.6 | 4256.9 | 17957.6 | 23037.7 | 21400.6 | 13700.7 | 7028.5 |
| 77.5° | 271.9 | 292.5 | 581.3 | 2145.3 | 3731.8 | 3746.8 | 9235.7 | 14321.4 | 11681.1 | 4883.2 | 1661.5 |
| 80° | 146.3 | 140.6 | 163.1 | 425.7 | 3474.9 | 3516.1 | 4157.5 | 6951.6 | 4170.6 | 810.1 | 547.6 |
| 82.5° | 103.1 | 97.5 | 105.0 | 178.2 | 1093.3 | 3203.0 | 3007.9 | 3146.7 | 1729.0 | 311.3 | 245.7 |
| 85° | 37.5 | 35.6 | 58.1 | 161.3 | 343.2 | 1841.5 | 3090.4 | 2595.4 | 1400.8 | 142.5 | 180.0 |
| 87.5° | 13.1 | 11.3 | 22.5 | 88.1 | 105.0 | 783.9 | 1907.2 | 1961.5 | 551.3 | 86.3 | 84.4 |
| 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: P191918

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7050-600-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 | 8631.9 |
| 2.5° | 8555.0 | 8438.7 | 8224.9 | 8005.5 | 7803.0 | 7559.2 | 7437.3 | 7317.3 | 7266.7 | 7247.9 | 7159.8 |
| 5° | 8307.4 | 8110.5 | 7656.7 | 7201.0 | 6781.0 | 6334.7 | 6040.2 | 5804.0 | 5665.2 | 5597.7 | 5490.8 |
| 7.5° | 7990.5 | 7668.0 | 6979.8 | 6276.5 | 5622.1 | 4977.0 | 4498.8 | 4131.2 | 3878.1 | 3756.2 | 3645.5 |
| 10° | 7683.0 | 7253.5 | 6274.7 | 5316.4 | 4427.5 | 3572.4 | 2912.3 | 2434.1 | 2128.4 | 1987.8 | 1897.8 |
| 12.5° | 7407.3 | 6850.4 | 5593.9 | 4380.6 | 3264.8 | 2263.5 | 1592.1 | 1211.4 | 1022.0 | 956.4 | 924.5 |
| 15° | 7161.7 | 6479.1 | 4950.7 | 3491.8 | 2210.9 | 1293.9 | 870.1 | 740.7 | 710.7 | 710.7 | 707.0 |
| 17.5° | 6929.1 | 6115.3 | 4330.0 | 2657.3 | 1387.7 | 791.4 | 662.0 | 645.1 | 645.1 | 652.6 | 652.6 |
| 20° | 6706.0 | 5768.3 | 3729.9 | 1907.2 | 873.9 | 628.2 | 598.2 | 594.5 | 598.2 | 607.6 | 607.6 |
| 22.5° | 6514.7 | 5453.3 | 3169.2 | 1308.9 | 648.8 | 566.3 | 551.3 | 545.7 | 547.6 | 553.2 | 557.0 |
| 25° | 6372.2 | 5187.0 | 2640.4 | 887.0 | 558.8 | 515.7 | 498.8 | 489.4 | 481.9 | 481.9 | 485.7 |
| 27.5° | 6282.2 | 4962.0 | 2128.4 | 645.1 | 502.6 | 468.8 | 442.6 | 427.6 | 410.7 | 401.3 | 405.1 |
| 30° | 6216.5 | 4748.2 | 1648.4 | 527.0 | 450.1 | 416.3 | 382.6 | 358.2 | 333.8 | 322.5 | 326.3 |
| 32.5° | 6192.1 | 4575.7 | 1232.1 | 465.1 | 403.2 | 365.7 | 324.4 | 292.5 | 266.3 | 256.9 | 258.8 |
| 35° | 6257.8 | 4438.8 | 902.0 | 420.1 | 365.7 | 318.8 | 271.9 | 236.3 | 215.7 | 210.0 | 211.9 |
| 37.5° | 6430.3 | 4365.6 | 675.1 | 382.6 | 331.9 | 279.4 | 226.9 | 193.2 | 180.0 | 180.0 | 181.9 |
| 40° | 6756.6 | 4363.8 | 542.0 | 356.3 | 301.9 | 241.9 | 187.5 | 163.1 | 155.6 | 159.4 | 161.3 |
| 42.5° | 7232.9 | 4463.1 | 472.6 | 331.9 | 275.7 | 206.3 | 155.6 | 138.8 | 136.9 | 140.6 | 142.5 |
| 45° | 7883.6 | 4645.0 | 435.1 | 311.3 | 247.5 | 172.5 | 131.3 | 120.0 | 120.0 | 125.6 | 127.5 |
| 47.5° | 8680.6 | 4911.3 | 403.2 | 290.7 | 219.4 | 144.4 | 112.5 | 105.0 | 106.9 | 112.5 | 114.4 |
| 50° | 9640.8 | 5247.0 | 371.3 | 268.2 | 198.8 | 120.0 | 97.5 | 91.9 | 93.8 | 101.3 | 103.1 |
| 52.5° | 10734.0 | 5698.9 | 345.0 | 247.5 | 172.5 | 99.4 | 82.5 | 78.8 | 82.5 | 90.0 | 91.9 |
| 55° | 11671.7 | 6104.0 | 313.2 | 230.7 | 138.8 | 82.5 | 67.5 | 67.5 | 71.3 | 80.6 | 82.5 |
| 57.5° | 12573.7 | 6527.8 | 285.0 | 198.8 | 108.8 | 65.6 | 56.3 | 58.1 | 63.8 | 73.1 | 75.0 |
| 60° | 13897.6 | 7246.0 | 251.3 | 166.9 | 82.5 | 52.5 | 46.9 | 48.8 | 56.3 | 65.6 | 67.5 |
| 62.5° | 16146.1 | 8339.3 | 217.5 | 138.8 | 63.8 | 41.3 | 37.5 | 41.3 | 50.6 | 61.9 | 63.8 |
| 65° | 18175.1 | 8783.8 | 178.2 | 116.3 | 48.8 | 31.9 | 31.9 | 37.5 | 48.8 | 60.0 | 61.9 |
| 67.5° | 17044.3 | 7394.2 | 138.8 | 91.9 | 37.5 | 24.4 | 26.3 | 35.6 | 46.9 | 60.0 | 61.9 |
| 69° | 15073.4 | 6045.9 | 118.1 | 73.1 | 31.9 | 22.5 | 24.4 | 35.6 | 46.9 | 58.1 | 60.0 |
| 70° | 13537.6 | 5104.5 | 105.0 | 61.9 | 28.1 | 22.5 | 24.4 | 33.8 | 46.9 | 58.1 | 60.0 |
| 72.5° | 9066.9 | 2756.6 | 84.4 | 45.0 | 26.3 | 20.6 | 20.6 | 33.8 | 45.0 | 56.3 | 58.1 |
| 75° | 3896.8 | 761.4 | 67.5 | 31.9 | 22.5 | 18.8 | 18.8 | 31.9 | 43.1 | 54.4 | 58.1 |
| 77.5° | 712.6 | 193.2 | 54.4 | 28.1 | 22.5 | 18.8 | 16.9 | 30.0 | 41.3 | 52.5 | 54.4 |
| 80° | 283.2 | 95.6 | 43.1 | 24.4 | 20.6 | 16.9 | 15.0 | 28.1 | 39.4 | 50.6 | 52.5 |
| 82.5° | 170.6 | 54.4 | 35.6 | 22.5 | 20.6 | 15.0 | 13.1 | 24.4 | 37.5 | 48.8 | 50.6 |
| 85° | 138.8 | 37.5 | 28.1 | 22.5 | 18.8 | 15.0 | 11.3 | 22.5 | 33.8 | 46.9 | 48.8 |
| 87.5° | 67.5 | 26.3 | 26.3 | 20.6 | 18.8 | 15.0 | 11.3 | 20.6 | 31.9 | 45.0 | 46.9 |
| 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)