

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: P192083

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SLL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21124 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

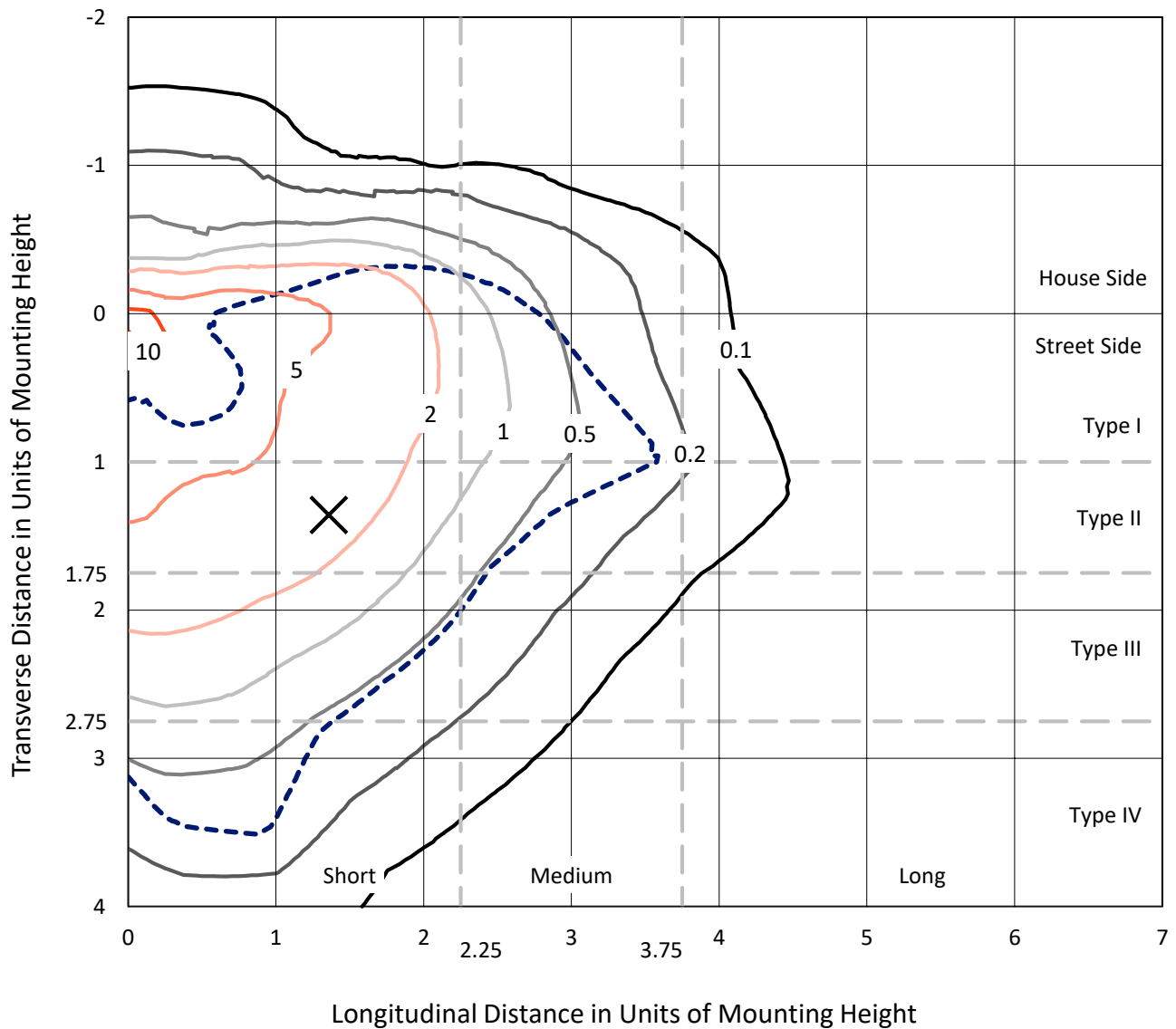
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192083
 CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

Iso-Footcandle Lines of Horizontal Illumination

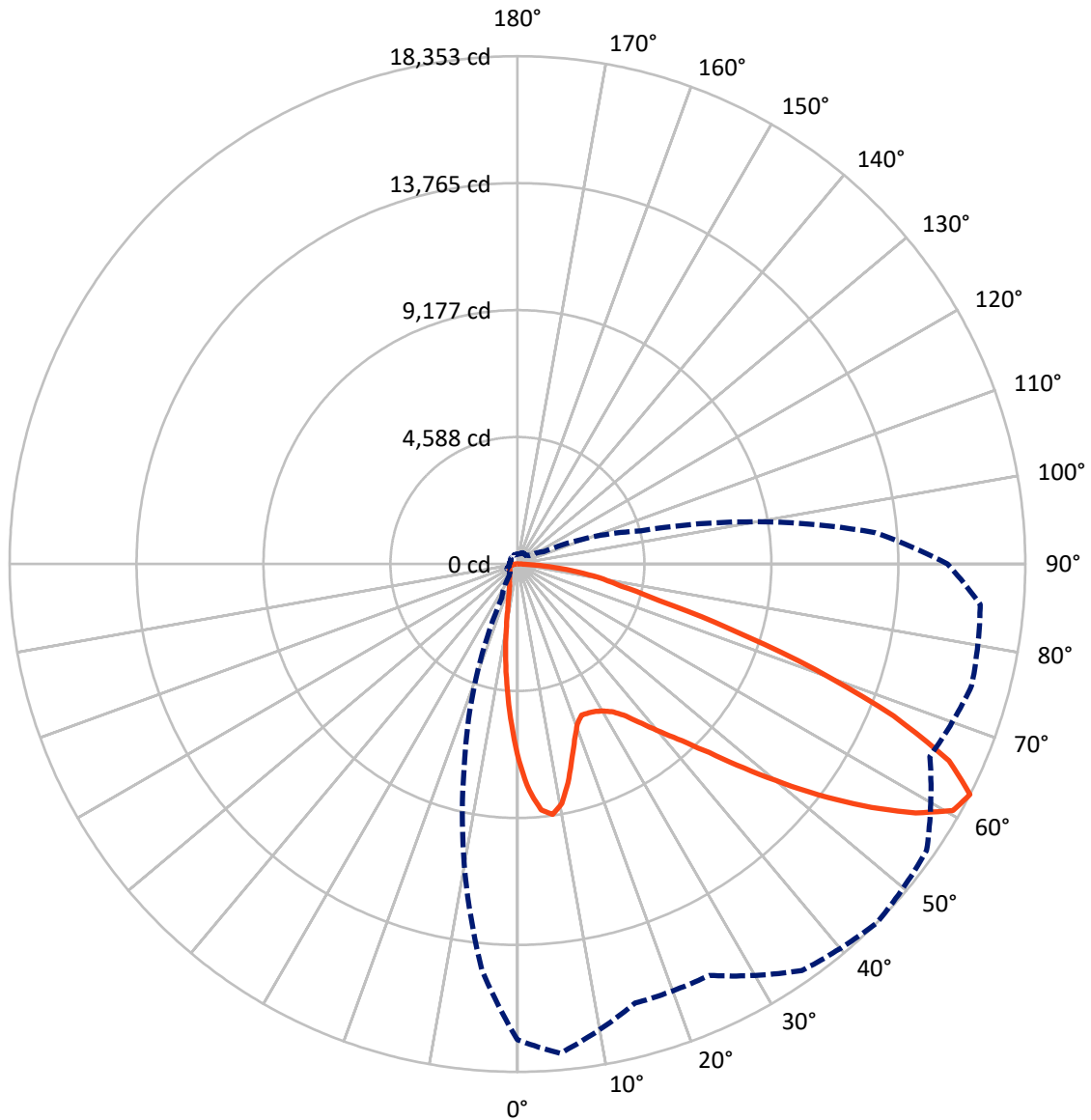
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192083
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P192083

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3495.7	0.0	3495.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17628.3	0.0	17628.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	21124.0	0.0	21124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.5	2.5
10°-20°	952.7	4.5
20°-30°	1389.0	6.6
30°-40°	2139.3	10.1
40°-50°	3148.4	14.9
50°-60°	4618.1	21.9
60°-70°	5162.3	24.4
70°-80°	2527.4	12.0
80°-90°	667.3	3.2
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°	21124.0	100.0
0°-180°	21124.0	100.0



REPORT NUMBER: P192083

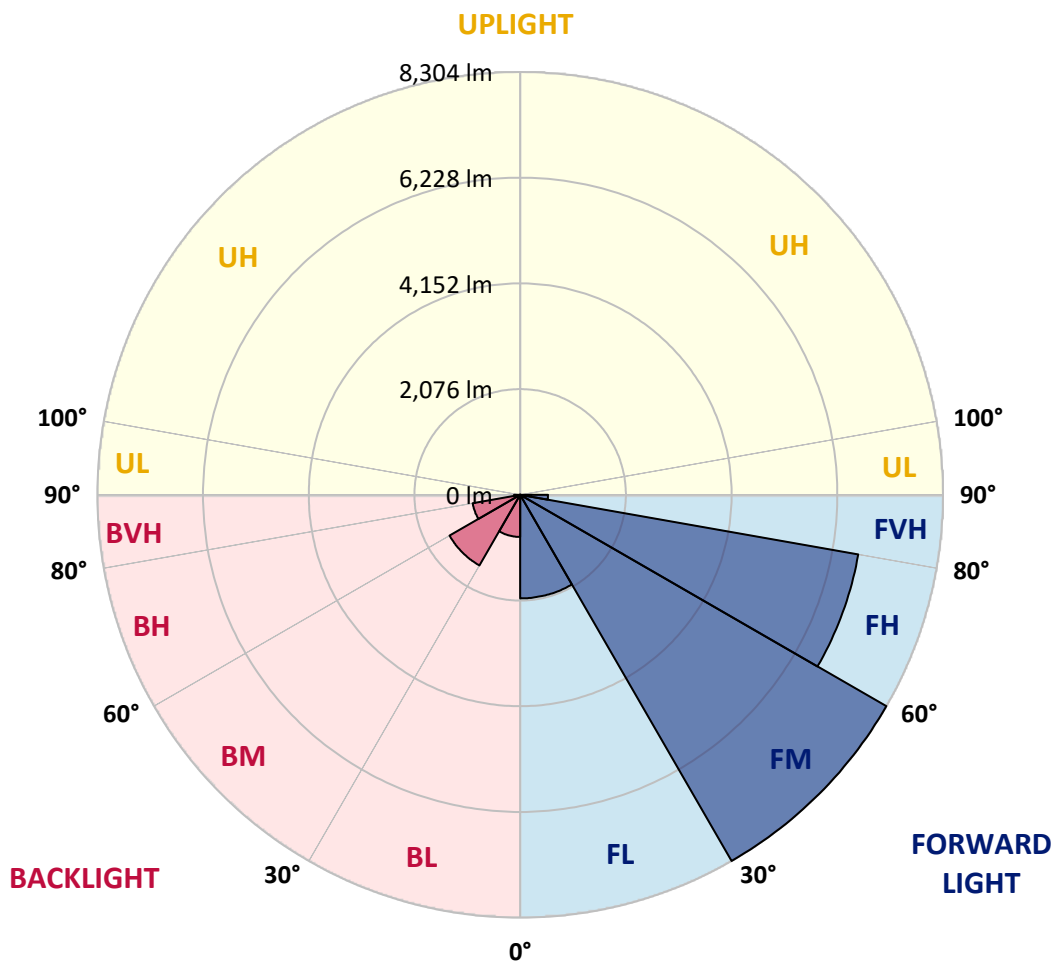
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.2	9.6			
FM (30°-60°)	8304.0	39.3			
FH (60°-80°)	6742.1	31.9			G3/7500
FVH (80°-90°)	548.0	2.6			G4/750
BL (0°-30°)	827.0	3.9	B2/1000		
BM (30°-60°)	1601.7	7.6	B2/2500		
BH (60°-80°)	947.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	119.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P192083

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	7415.5	7534.0	7765.0	7938.1	8148.2	8197.0	8264.4	8198.2	8080.9	7925.3	7874.2
5°	6973.1	7226.2	7787.1	8280.6	8719.6	8923.9	8980.8	8812.5	8472.2	8025.2	7752.3
7.5°	6263.6	6623.6	7383.0	8109.9	8756.7	9138.8	9129.5	8738.1	8112.2	7384.2	6946.4
10°	5651.6	6062.7	6933.6	7746.5	8432.7	8803.2	8660.3	8159.9	7413.2	6574.8	6099.9
12.5°	5309.1	5712.0	6595.7	7412.0	7985.7	8113.4	8004.3	7514.2	6810.5	5962.8	5547.1
15°	5249.9	5692.3	6461.0	7125.2	7446.9	7335.4	7205.3	6985.9	6488.9	5765.4	5332.3
17.5°	5506.5	5994.2	6615.4	6925.5	6870.9	6677.0	6639.8	6664.2	6544.6	5984.9	5485.6
20°	5998.8	6584.1	6983.5	6831.4	6433.1	6166.0	6175.3	6548.1	6902.3	6541.1	5971.0
22.5°	6689.8	7357.5	7514.2	6881.4	6248.5	5931.5	6008.1	6612.0	7472.4	7354.0	6625.9
25°	7583.9	8192.4	8079.7	7062.5	6267.1	5960.5	6022.1	6832.6	8145.9	8166.8	7436.4
27.5°	8450.2	9014.5	8554.7	7302.9	6343.7	6029.0	6110.3	7179.8	8789.2	9049.3	8363.1
30°	9126.0	9518.5	8742.8	7522.3	6494.7	6162.6	6263.6	7509.6	9081.9	9645.0	9076.1
32.5°	9685.7	9967.9	9042.4	7794.1	6772.2	6372.7	6550.4	7910.2	9503.4	10211.7	9773.9
35°	10401.0	10481.1	9415.1	8097.1	7200.7	6738.5	6959.2	8302.7	9905.2	10784.2	10461.4
37.5°	11239.4	11136.0	9767.0	8511.7	7754.6	7311.0	7493.3	8733.5	10236.1	11433.3	11163.9
40°	12068.5	11820.0	10208.2	9155.0	8562.8	7985.7	8201.7	9193.3	10545.0	12083.6	11850.2
42.5°	12773.4	12405.3	10643.7	9862.2	9315.3	8730.0	8987.8	9656.7	10839.9	12638.7	12445.9
45°	13294.7	12837.2	11058.2	10541.5	10352.2	9719.4	9841.3	10187.3	11159.3	13102.0	12935.9
47.5°	13760.4	13271.5	11527.4	11226.6	11259.1	11006.0	10809.7	10805.1	11535.5	13480.5	13399.3
50°	14384.0	13874.2	12031.3	11932.6	12620.1	12451.7	12018.6	11526.2	12011.6	13910.2	13900.9
52.5°	15243.3	14828.7	12646.8	12693.2	13890.4	14000.8	13464.3	12392.5	12757.1	14698.7	14642.9
55°	16259.3	16017.8	13485.2	13567.6	15448.8	15527.8	14994.8	13475.9	13853.3	15840.1	15685.7
57.5°	17052.4	17001.3	14404.9	14617.4	16612.3	16967.7	16477.6	14730.0	15088.8	16801.6	16413.8
60°	17368.3	17615.6	15383.8	15676.4	17688.8	18082.4	17652.8	15832.0	16183.8	17199.9	16363.8
62.5°	17197.6	17750.3	16426.5	16402.2	17929.2	18353.0	18051.1	16445.1	16995.5	16788.8	15535.9
65°	16409.1	17266.1	17031.5	16215.2	17107.0	17141.9	17044.3	16171.1	17187.1	15489.4	13935.7
67.5°	14691.7	15924.9	16234.9	14612.7	14889.1	14662.7	14498.9	14670.8	16188.5	13542.1	11712.0
70°	11966.3	13821.9	13970.6	11687.6	11562.2	11410.1	11083.8	12027.9	14217.9	11098.9	9293.2
72.5°	8798.5	10749.4	11205.7	8572.1	7991.5	8022.8	7765.0	9064.4	11559.9	8244.6	6938.3
75°	6019.7	7783.6	8767.2	5981.4	5284.7	5297.5	5264.9	6422.7	9207.3	5735.2	5191.8
77.5°	4397.5	5561.1	6612.0	4021.3	3904.0	3832.0	3814.6	4493.9	7059.0	4164.1	4031.7
80°	3528.9	4108.4	4441.6	2786.9	2997.1	2991.3	2894.9	3090.0	4610.0	3045.9	3015.7
82.5°	2447.8	3157.3	3598.6	2184.2	2022.8	1989.2	2012.4	2301.5	3258.4	2082.1	1979.9
85°	1291.3	2097.2	3563.8	1935.7	1200.7	958.0	1191.4	1884.7	2822.9	1103.2	966.1
87.5°	164.9	606.2	2359.6	772.2	473.8	255.5	565.5	1061.4	1812.7	225.3	196.2
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: P192083

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	7743.0	7588.5	7386.5	7199.5	7005.6	6812.8	6560.9	6402.9	6293.8	6272.9	6226.4
5°	7554.9	7041.6	6653.8	6318.2	6013.9	5584.3	5346.2	5148.8	5043.2	5032.7	5007.2
7.5°	6687.4	5979.1	5455.4	4980.4	4549.6	4202.4	3819.2	3640.4	3567.3	3584.7	3602.1
10°	5785.2	4993.2	4391.7	3906.3	3526.6	3234.0	2926.3	2718.4	2574.4	2545.4	2539.6
12.5°	5125.6	4257.0	3672.9	3330.4	3036.6	2761.4	2435.1	2190.1	2003.1	1939.2	1896.3
15°	4846.9	3897.0	3285.1	2915.8	2591.8	2242.3	1939.2	1682.6	1510.7	1455.0	1423.6
17.5°	4906.1	3797.2	3018.0	2545.4	2130.8	1766.2	1384.2	1164.7	1061.4	1034.6	1034.6
20°	5217.3	3778.6	2797.4	2204.0	1687.2	1264.6	951.0	825.6	791.9	788.5	797.8
22.5°	5654.0	3843.6	2632.5	1907.9	1311.0	923.2	740.9	694.4	679.3	682.8	693.2
25°	6304.2	4063.1	2512.9	1644.3	1028.8	756.0	660.7	632.9	625.9	635.2	648.0
27.5°	7075.3	4282.6	2438.6	1445.7	868.6	690.9	628.2	599.2	603.8	615.4	627.1
30°	7752.3	4462.5	2321.3	1304.0	818.7	694.4	628.2	588.7	584.1	586.4	589.9
32.5°	8359.6	4584.5	2184.2	1169.3	706.0	616.6	586.4	580.6	555.1	545.8	546.9
35°	8883.3	4584.5	2101.8	1090.4	632.9	546.9	498.2	469.1	456.4	457.5	470.3
37.5°	9388.4	4492.7	2061.2	1046.3	593.4	520.2	477.3	451.7	434.3	430.8	433.1
40°	9834.3	4359.2	2014.7	1027.7	563.2	504.0	463.3	442.4	423.8	418.0	419.2
42.5°	10192.0	4251.2	1963.6	1003.3	544.6	492.4	454.0	435.5	414.6	408.7	407.6
45°	10578.7	4215.2	1896.3	954.5	553.9	493.5	451.7	432.0	411.1	404.1	401.8
47.5°	11088.4	4327.8	1826.6	896.5	573.6	499.3	455.2	432.0	409.9	404.1	401.8
50°	11730.6	4592.6	1738.3	811.7	553.9	515.6	454.0	428.5	409.9	404.1	399.5
52.5°	12555.1	4950.3	1622.2	714.1	542.3	555.1	451.7	421.5	404.1	396.0	387.8
55°	13557.2	5242.9	1484.0	634.0	515.6	544.6	448.2	413.4	394.8	383.2	376.2
57.5°	14291.1	5348.6	1306.4	581.8	478.4	527.2	443.6	402.9	383.2	373.9	364.6
60°	14145.9	5144.2	1156.6	549.3	456.4	476.1	440.1	393.7	372.7	365.8	357.7
62.5°	12983.5	4610.0	1060.2	534.2	442.4	434.3	443.6	384.4	363.5	356.5	354.2
65°	11240.6	3821.6	1021.9	530.7	430.8	409.9	412.2	373.9	353.0	347.2	344.9
67.5°	9272.3	3084.2	988.2	542.3	415.7	392.5	380.9	360.0	342.6	336.8	332.1
70°	7312.2	2565.1	973.1	535.3	397.1	375.1	362.3	344.9	329.8	324.0	320.5
72.5°	5888.5	2166.8	965.0	528.4	372.7	351.8	340.2	325.1	308.9	306.6	303.1
75°	4982.8	1703.5	883.7	506.3	344.9	324.0	315.9	301.9	285.7	285.7	283.3
77.5°	3843.6	1232.0	735.0	448.2	315.9	292.6	285.7	275.2	256.6	260.1	259.0
80°	2839.2	803.6	574.8	371.6	279.9	257.8	254.3	243.9	224.1	228.8	228.8
82.5°	1945.0	527.2	413.4	304.2	239.2	218.3	218.3	207.9	185.8	188.1	195.1
85°	976.6	362.3	308.9	235.7	185.8	175.3	175.3	167.2	145.2	146.3	155.6
87.5°	297.3	218.3	204.4	168.4	133.5	131.2	125.4	119.6	105.7	104.5	110.3
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: P192083

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	6155.6	6089.4	6009.3	5832.8	5773.6	5770.1	5823.5	5767.8	5874.6	5829.3	5879.2
5°	4964.2	4899.2	4809.8	4584.5	4447.5	4354.6	4310.4	4180.4	4274.4	4205.9	4262.8
7.5°	3650.9	3666.0	3606.7	3474.4	3175.9	3026.1	2937.9	2858.9	2927.4	2920.5	3029.6
10°	2566.3	2606.9	2565.1	2431.6	2190.1	2107.6	2123.9	2155.2	2244.6	2291.1	2459.5
12.5°	1847.5	1845.2	1818.5	1698.9	1539.8	1549.1	1615.2	1669.8	1752.3	1801.0	1972.9
15°	1379.5	1358.6	1347.0	1249.5	1158.9	1178.6	1211.1	1217.0	1269.2	1298.2	1437.6
17.5°	1042.8	1053.2	1066.0	996.3	927.8	915.0	889.5	858.1	873.2	879.0	948.7
20°	827.9	869.7	901.1	852.3	782.7	745.5	713.0	692.1	692.1	690.9	710.7
22.5°	723.4	753.6	787.3	753.6	690.9	658.4	639.8	623.6	621.2	621.2	639.8
25°	666.5	688.6	721.1	697.9	651.4	627.1	609.6	588.7	580.6	578.3	591.1
27.5°	638.7	648.0	664.2	643.3	603.8	592.2	587.6	569.0	558.5	552.7	565.5
30°	591.1	588.7	589.9	569.0	537.6	536.5	544.6	548.1	544.6	543.4	563.2
32.5°	546.9	542.3	541.1	522.5	493.5	486.5	493.5	500.5	508.6	520.2	543.4
35°	491.2	502.8	509.8	493.5	458.7	437.8	429.6	416.9	409.9	409.9	436.6
37.5°	447.1	473.8	484.2	469.1	430.8	401.8	387.8	385.5	386.7	391.3	416.9
40°	432.0	451.7	461.0	445.9	407.6	380.9	372.7	370.4	372.7	379.7	405.3
42.5°	422.7	436.6	435.5	416.9	385.5	366.9	362.3	360.0	362.3	369.3	397.1
45°	414.6	423.8	414.6	392.5	363.5	354.2	355.3	354.2	356.5	363.5	390.2
47.5°	407.6	411.1	399.5	377.4	347.2	344.9	349.5	353.0	355.3	361.1	389.0
50°	397.1	397.1	386.7	363.5	333.3	334.4	340.2	348.4	349.5	356.5	378.6
52.5°	384.4	383.2	376.2	354.2	321.7	325.1	325.1	334.4	336.8	344.9	368.1
55°	373.9	371.6	368.1	347.2	311.2	317.0	313.5	317.0	322.8	330.9	356.5
57.5°	364.6	360.0	360.0	341.4	303.1	305.4	297.3	301.9	308.9	315.9	342.6
60°	355.3	350.7	353.0	333.3	290.3	288.0	284.5	293.8	296.1	304.2	330.9
62.5°	344.9	341.4	342.6	324.0	281.0	275.2	275.2	283.3	284.5	296.1	321.7
65°	336.8	332.1	330.9	314.7	270.6	263.6	267.1	270.6	272.9	284.5	308.9
67.5°	328.6	319.3	319.3	306.6	259.0	252.0	259.0	257.8	261.3	271.7	291.5
70°	318.2	305.4	306.6	300.8	247.3	239.2	245.0	243.9	246.2	253.1	272.9
72.5°	301.9	291.5	293.8	291.5	235.7	224.1	226.4	226.4	226.4	232.2	253.1
75°	281.0	272.9	279.9	285.7	221.8	205.5	207.9	207.9	204.4	207.9	233.4
77.5°	255.5	250.8	274.0	265.9	205.5	185.8	185.8	183.5	176.5	181.1	209.0
80°	227.6	224.1	253.1	223.0	187.0	161.4	159.1	153.3	146.3	149.8	177.7
82.5°	198.6	195.1	212.5	170.7	161.4	133.5	127.7	117.3	110.3	113.8	139.3
85°	162.6	162.6	163.7	128.9	123.1	102.2	95.2	81.3	73.2	75.5	99.9
87.5°	116.1	119.6	110.3	88.3	73.2	56.9	52.3	44.1	37.2	43.0	52.3
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: P192083

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	6134.7	6262.4	6407.6	6593.4	6752.5	7013.7	7264.6	7415.5
5°	4586.8	4799.3	5064.1	5404.3	5721.3	6197.4	6670.0	6973.1
7.5°	3282.8	3510.4	3796.0	4221.0	4669.2	5276.6	5901.3	6263.6
10°	2716.1	2949.5	3189.9	3476.7	3843.6	4504.4	5242.9	5651.6
12.5°	2247.0	2496.6	2755.6	3057.5	3397.7	3987.6	4838.8	5309.1
15°	1719.8	1998.5	2303.8	2685.9	3112.1	3793.7	4738.9	5249.9
17.5°	1178.6	1489.8	1864.9	2336.4	2857.7	3731.0	4917.7	5506.5
20°	811.7	1038.1	1438.7	1991.5	2618.5	3722.9	5261.5	5998.8
22.5°	679.3	780.3	1073.0	1674.5	2438.6	3822.7	5794.5	6689.8
25°	628.2	688.6	857.0	1399.3	2307.3	4052.6	6528.3	7583.9
27.5°	598.0	652.6	778.0	1219.3	2204.0	4319.7	7242.5	8450.2
30°	609.6	665.4	756.0	1127.5	2063.5	4542.7	7876.5	9126.0
32.5°	549.3	573.6	648.0	1046.3	1962.5	4729.6	8431.6	9685.7
35°	468.0	510.9	578.3	1007.9	1964.8	4855.0	9036.6	10401.0
37.5°	445.9	488.9	537.6	994.0	1991.5	4988.6	9731.0	11239.4
40°	432.0	471.5	513.3	985.9	2017.0	5110.5	10411.5	12068.5
42.5°	422.7	458.7	510.9	958.0	2029.8	5219.7	10971.2	12773.4
45°	421.5	458.7	520.2	930.1	2049.5	5336.9	11440.3	13294.7
47.5°	422.7	473.8	502.8	896.5	2049.5	5533.2	11990.7	13760.4
50°	418.0	499.3	484.2	848.8	2001.9	5904.8	12745.5	14384.0
52.5°	415.7	495.8	448.2	775.7	1919.5	6494.7	13712.8	15243.3
55°	409.9	478.4	422.7	666.5	1823.1	7138.0	14748.6	16259.3
57.5°	404.1	423.8	408.7	571.3	1674.5	7590.9	15461.6	17052.4
60°	452.9	370.4	397.1	524.9	1475.9	7715.1	15433.7	17368.3
62.5°	419.2	347.2	382.0	514.4	1336.6	7366.7	14720.7	17197.6
65°	328.6	332.1	366.9	544.6	1299.4	6443.6	13457.3	16409.1
67.5°	300.8	317.0	351.8	582.9	1302.9	5159.3	11569.2	14691.7
70°	283.3	300.8	334.4	602.7	1312.2	3845.9	9146.9	11966.3
72.5°	263.6	278.7	314.7	606.2	1251.8	2793.9	7049.7	8798.5
75°	240.4	254.3	286.8	528.4	1037.0	1938.1	5392.7	6019.7
77.5°	213.7	224.1	252.0	407.6	769.9	1240.2	4048.0	4397.5
80°	182.3	188.1	211.3	298.4	527.2	775.7	3202.6	3528.9
82.5°	146.3	148.6	163.7	224.1	342.6	498.2	2144.8	2447.8
85°	103.3	103.3	112.6	162.6	233.4	315.9	1164.7	1291.3
87.5°	48.8	49.9	49.9	89.4	121.9	160.2	268.2	164.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)