

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: P191294

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191294
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-06-LED-E1-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 32004.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

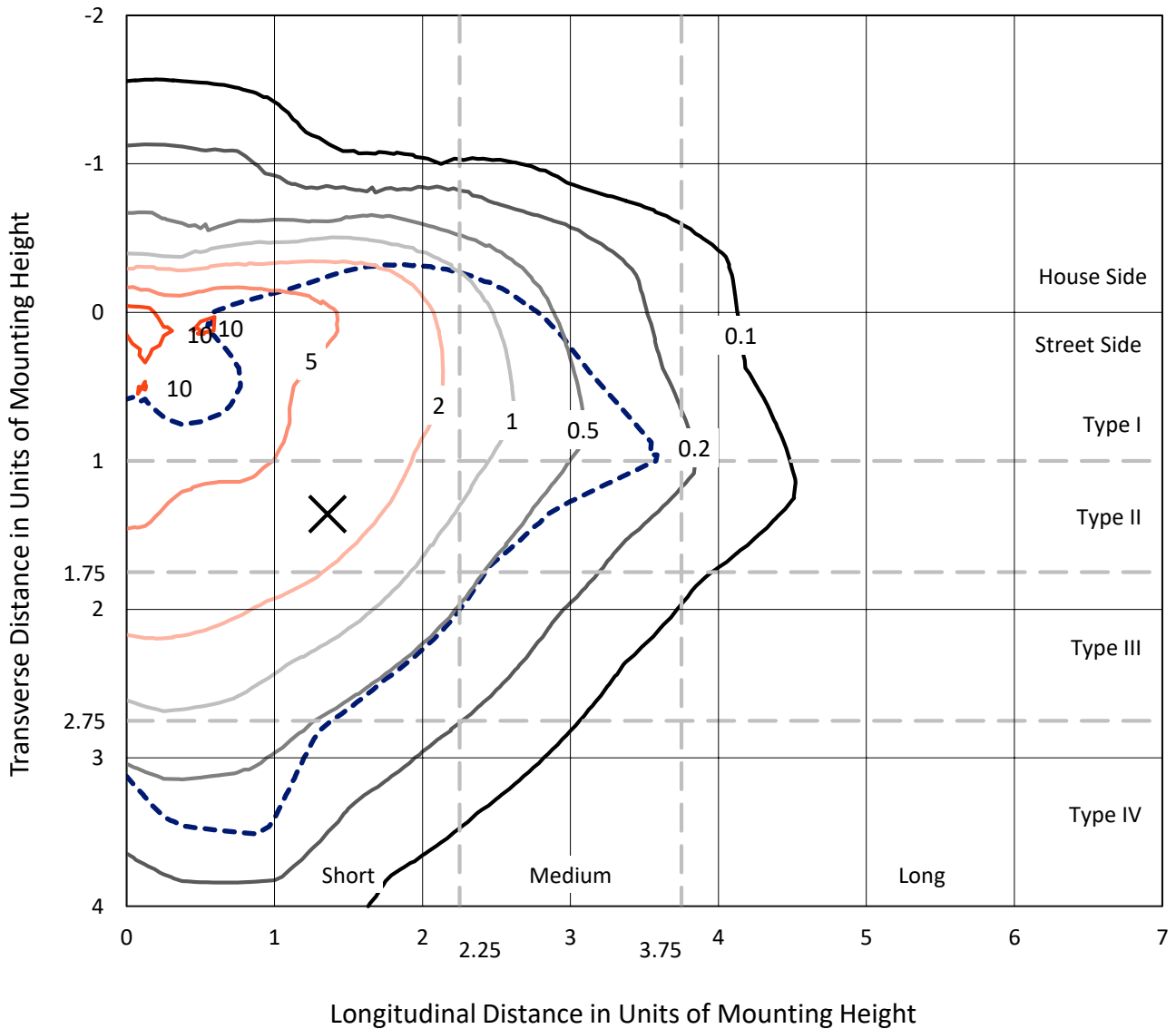


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

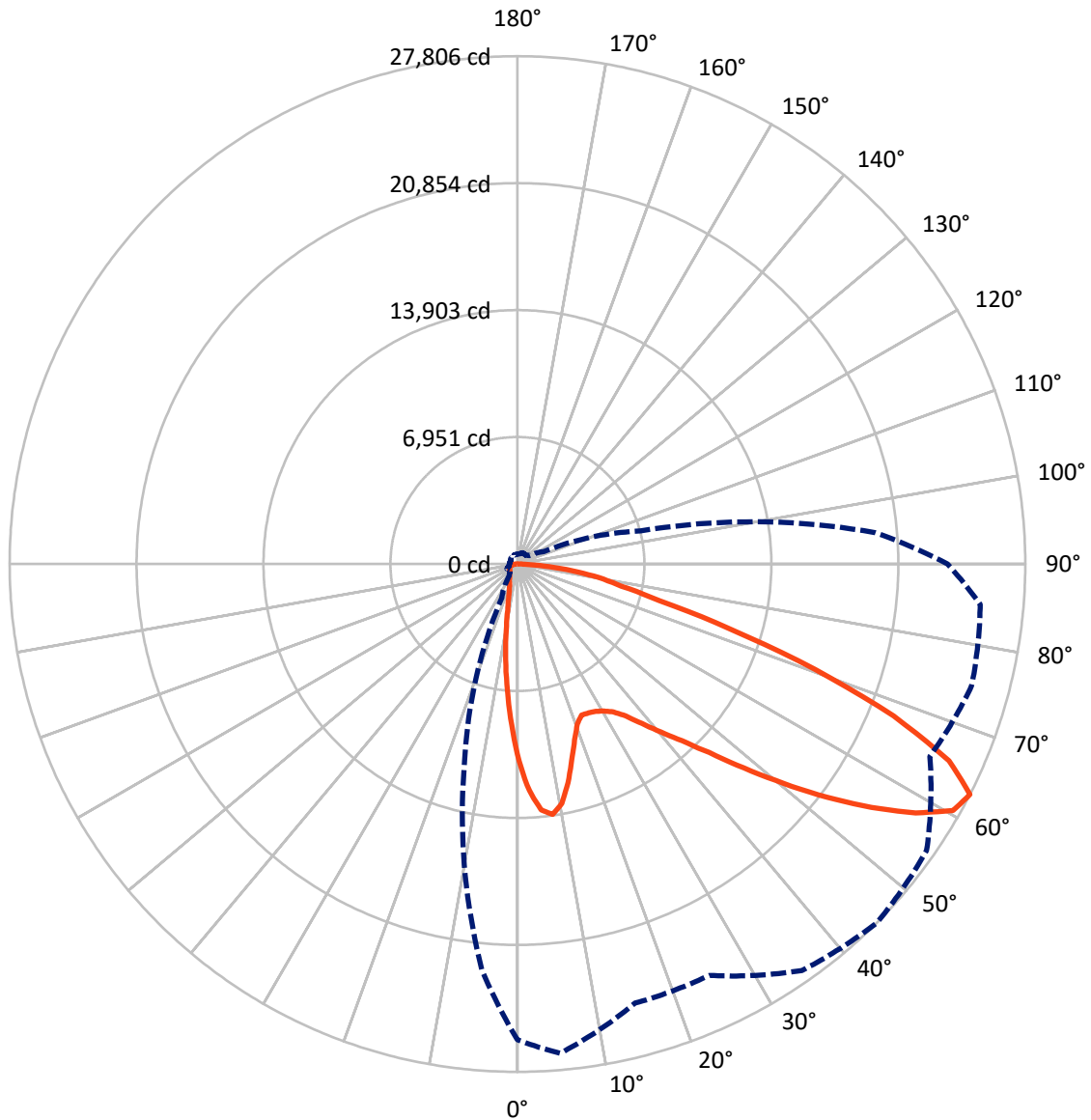


Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5296.2	0.0	5296.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26707.8	0.0	26707.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	32004.1	0.0	32004.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.1	2.5
10°-20°	1443.4	4.5
20°-30°	2104.4	6.6
30°-40°	3241.1	10.1
40°-50°	4770.0	14.9
50°-60°	6996.6	21.9
60°-70°	7821.2	24.4
70°-80°	3829.2	12.0
80°-90°	1011.0	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°	32004.1	100.0
0°-180°	32004.1	100.0



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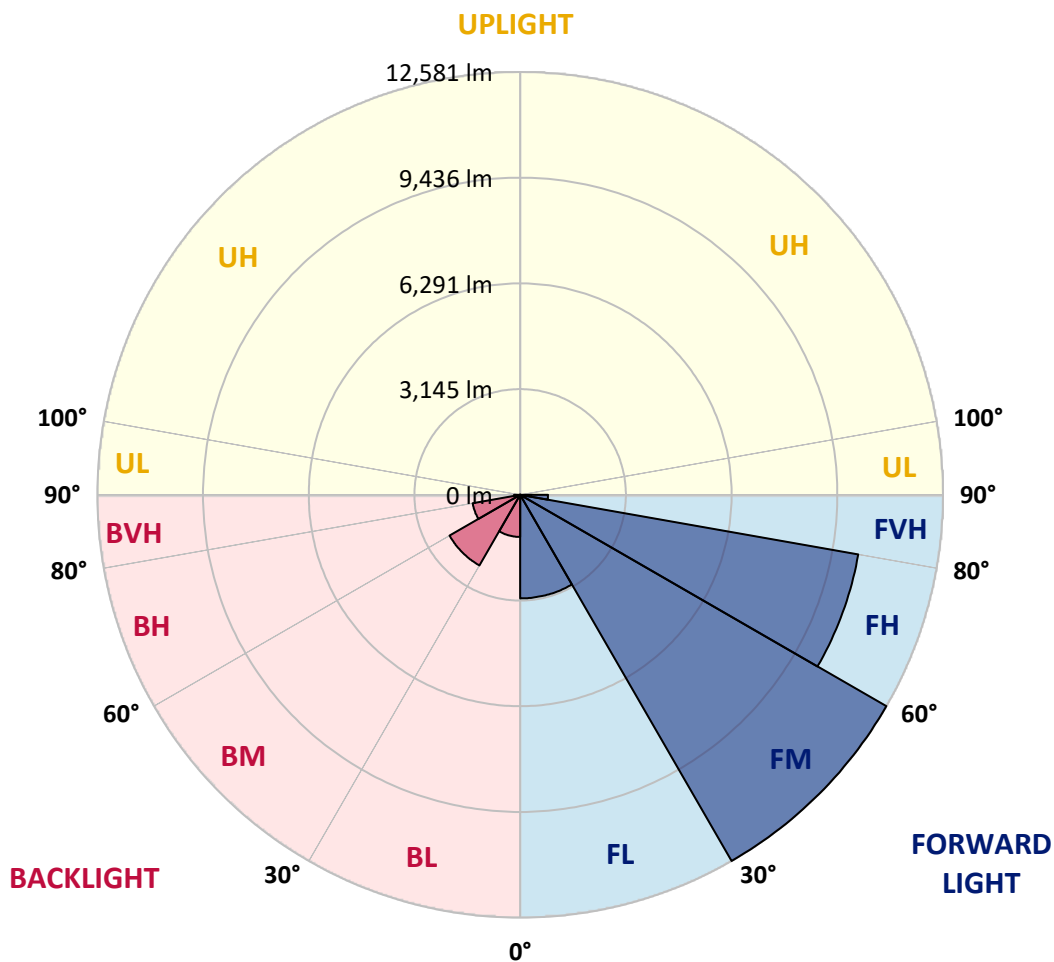
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.9	9.6			
FM (30°-60°)	12581.1	39.3			
FH (60°-80°)	10214.6	31.9			G4/12000
FVH (80°-90°)	830.3	2.6			G5
BL (0°-30°)	1253.0	3.9	B3/2500		
BM (30°-60°)	2426.7	7.6	B2/2500		
BH (60°-80°)	1435.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	180.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	11235.0	11414.4	11764.4	12026.6	12345.1	12418.9	12521.0	12420.7	12243.0	12007.3	11929.9
5°	10564.6	10948.1	11797.9	12545.6	13210.6	13520.2	13606.5	13351.3	12835.9	12158.6	11745.1
7.5°	9489.7	10035.0	11185.7	12287.0	13267.0	13845.7	13831.6	13238.7	12290.5	11187.4	10524.1
10°	8562.5	9185.4	10504.8	11736.3	12776.0	13337.3	13120.9	12362.7	11231.4	9961.2	9241.6
12.5°	8043.6	8654.1	9992.9	11229.6	12098.7	12292.3	12126.9	11384.4	10318.3	9034.0	8404.2
15°	7953.9	8624.1	9788.8	10795.1	11282.4	11113.5	10916.5	10584.0	9831.0	8735.0	8078.8
17.5°	8342.6	9081.6	10022.8	10492.5	10409.9	10116.0	10059.7	10096.6	9915.5	9067.4	8311.0
20°	9088.6	9975.3	10580.5	10350.0	9746.6	9341.9	9356.0	9920.7	10457.3	9910.1	9046.4
22.5°	10135.4	11147.0	11384.4	10425.6	9466.8	8986.5	9102.6	10017.5	11321.1	11141.7	10038.6
25°	11490.0	12411.9	12241.2	10700.1	9494.9	9030.5	9123.8	10351.8	12341.5	12373.2	11266.6
27.5°	12802.4	13657.5	12960.8	11064.2	9611.0	9134.3	9257.5	10877.8	13316.2	13710.3	12670.5
30°	13826.4	14421.0	13245.8	11396.8	9839.8	9336.7	9489.7	11377.5	13759.5	14612.8	13750.7
32.5°	14674.3	15101.8	13699.7	11808.4	10260.3	9655.0	9924.3	11984.4	14398.1	15471.3	14808.0
35°	15758.0	15879.5	14264.4	12267.6	10909.5	10209.3	10543.6	12579.0	15006.9	16338.7	15849.6
37.5°	17028.3	16871.7	14797.5	12895.7	11748.6	11076.6	11352.8	13231.8	15508.2	17322.1	16914.0
40°	18284.4	17908.0	15466.1	13870.4	12973.2	12098.7	12426.0	13928.4	15976.2	18307.3	17953.7
42.5°	19352.4	18794.7	16125.8	14941.7	14113.1	13226.4	13617.0	14630.3	16423.1	19148.3	18856.3
45°	20142.3	19449.2	16753.9	15970.9	15684.2	14725.4	14910.1	15434.4	16906.9	19850.3	19598.6
47.5°	20847.7	20107.1	17464.6	17008.9	17058.2	16674.7	16377.3	16370.3	17476.9	20423.7	20300.7
50°	21792.5	21020.2	18228.2	18078.6	19120.1	18865.1	18208.8	17462.9	18198.3	21074.7	21060.6
52.5°	23094.4	22466.4	19160.6	19231.0	21044.8	21211.9	20399.2	18775.3	19327.7	22269.3	22184.8
55°	24633.8	24267.9	20430.8	20555.7	23405.8	23525.4	22717.9	20416.8	20988.5	23998.6	23764.7
57.5°	25835.4	25758.0	21824.1	22146.2	25168.6	25707.0	24964.5	22316.8	22860.4	25455.4	24867.7
60°	26313.9	26688.7	23307.3	23750.7	26799.5	27395.9	26744.9	23986.4	24519.4	26058.9	24792.1
62.5°	26055.3	26892.8	24887.2	24850.1	27163.6	27805.8	27348.4	24915.3	25749.2	25436.1	23537.8
65°	24860.8	26159.1	25803.7	24567.0	25918.1	25970.9	25823.1	24500.1	26039.5	23467.4	21113.4
67.5°	22258.7	24127.1	24596.9	22139.1	22557.8	22214.7	21966.6	22227.1	24526.5	20517.0	17744.3
70°	18129.7	20941.0	21166.2	17707.4	17517.4	17286.9	16792.6	18222.8	21540.9	16815.5	14079.7
72.5°	13330.3	16285.9	16977.3	12987.2	12107.5	12155.0	11764.4	13733.1	17513.8	12491.0	10511.8
75°	9120.2	11792.6	13282.7	9062.2	8006.6	8026.0	7976.7	9730.7	13949.6	8689.3	7865.9
77.5°	6662.5	8425.3	10017.5	6092.5	5914.8	5805.8	5779.4	6808.6	10694.8	6308.8	6108.3
80°	5346.6	6224.5	6729.4	4222.3	4540.8	4532.0	4385.9	4681.5	6984.4	4614.6	4568.9
82.5°	3708.6	4783.5	5452.1	3309.2	3064.7	3013.7	3048.9	3486.9	4936.7	3154.5	2999.6
85°	1956.4	3177.3	5399.3	2932.8	1819.1	1451.5	1805.0	2855.4	4276.9	1671.3	1463.7
87.5°	249.8	918.4	3574.9	1169.9	717.8	387.1	856.8	1608.0	2746.3	341.3	297.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	11731.0	11497.0	11191.0	10907.7	10613.9	10321.9	9940.1	9700.8	9535.4	9503.7	9433.3
5°	11446.0	10668.5	10080.8	9572.4	9111.4	8460.5	8099.8	7800.7	7640.6	7624.9	7586.1
7.5°	10131.8	9058.6	8265.2	7545.7	6892.9	6366.9	5786.3	5515.4	5404.6	5430.9	5457.3
10°	8764.8	7565.0	6653.7	5918.3	5343.0	4899.6	4433.5	4118.5	3900.4	3856.4	3847.6
12.5°	7765.5	6449.6	5564.6	5045.7	4600.6	4183.7	3689.3	3318.0	3034.8	2938.0	2873.0
15°	7343.4	5904.3	4977.1	4417.6	3926.8	3397.2	2938.0	2549.2	2288.9	2204.5	2156.9
17.5°	7433.1	5753.0	4572.4	3856.4	3228.3	2675.9	2097.0	1764.6	1608.0	1567.6	1567.6
20°	7904.5	5724.7	4238.2	3339.1	2556.3	1915.9	1440.8	1250.9	1199.8	1194.6	1208.6
22.5°	8566.1	5823.2	3988.4	2890.6	1986.3	1398.7	1122.5	1052.1	1029.2	1034.5	1050.3
25°	9551.3	6155.8	3807.1	2491.2	1558.8	1145.3	1001.1	958.8	948.3	962.3	981.7
27.5°	10719.4	6488.3	3694.6	2190.3	1315.9	1046.8	951.8	907.8	914.8	932.4	950.0
30°	11745.1	6761.0	3516.8	1975.7	1240.3	1052.1	951.8	892.0	885.0	888.4	893.8
32.5°	12665.3	6945.7	3309.2	1771.6	1069.7	934.2	888.4	879.6	841.0	826.9	828.6
35°	13458.7	6945.7	3184.3	1652.0	958.8	828.6	754.7	710.7	691.4	693.2	712.5
37.5°	14224.0	6806.7	3122.8	1585.2	899.0	788.2	723.1	684.4	658.0	652.7	656.2
40°	14899.6	6604.5	3052.4	1557.0	853.2	763.5	701.9	670.3	642.1	633.3	635.2
42.5°	15441.4	6440.8	2974.9	1520.0	825.1	745.9	687.9	659.7	628.1	619.3	617.6
45°	16027.3	6386.3	2873.0	1446.1	839.2	747.7	684.4	654.5	622.8	612.2	608.8
47.5°	16799.6	6556.9	2767.4	1358.2	869.1	756.5	689.7	654.5	621.0	612.2	608.8
50°	17772.5	6958.0	2633.7	1229.8	839.2	781.1	687.9	649.2	621.0	612.2	605.2
52.5°	19021.6	7499.9	2457.7	1082.0	821.6	841.0	684.4	638.6	612.2	600.0	587.6
55°	20539.9	7943.2	2248.3	960.6	781.1	825.1	679.1	626.4	598.1	580.5	570.0
57.5°	21651.8	8103.4	1979.2	881.4	724.9	798.7	672.1	610.5	580.5	566.5	552.4
60°	21431.8	7793.8	1752.3	832.2	691.4	721.3	666.8	596.4	564.8	554.1	541.9
62.5°	19670.8	6984.4	1606.2	809.3	670.3	658.0	672.1	582.4	550.7	540.1	536.5
65°	17030.1	5789.9	1548.2	804.0	652.7	621.0	624.5	566.5	534.8	526.0	522.5
67.5°	14048.1	4672.7	1497.2	821.6	629.8	594.6	577.0	545.3	519.0	510.2	503.2
70°	11078.4	3886.3	1474.3	811.0	601.7	568.2	548.9	522.5	499.6	490.8	485.6
72.5°	8921.5	3282.9	1462.0	800.5	564.8	533.1	515.5	492.7	468.0	464.4	459.2
75°	7549.2	2580.9	1338.8	767.0	522.5	490.8	478.5	457.5	432.8	432.8	429.2
77.5°	5823.2	1866.6	1113.7	679.1	478.5	443.3	432.8	417.0	388.8	394.0	392.3
80°	4301.5	1217.4	870.8	562.9	424.0	390.6	385.2	369.5	339.5	346.6	346.6
82.5°	2946.8	798.7	626.4	460.9	362.4	330.7	330.7	315.0	281.5	285.0	295.5
85°	1479.6	548.9	468.0	357.1	281.5	265.7	265.7	253.4	219.9	221.7	235.8
87.5°	450.4	330.7	309.6	255.1	202.3	198.8	190.0	181.2	160.1	158.4	167.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	9326.0	9225.8	9104.4	8837.0	8747.3	8742.0	8823.0	8738.5	8900.3	8831.7	8907.3
5°	7521.0	7422.5	7287.0	6945.7	6738.2	6597.4	6530.5	6333.5	6476.0	6372.2	6458.4
7.5°	5531.3	5554.1	5464.4	5263.8	4811.7	4584.8	4451.1	4331.4	4435.2	4424.7	4590.0
10°	3888.0	3949.6	3886.3	3684.0	3318.0	3193.1	3217.8	3265.3	3400.7	3471.1	3726.2
12.5°	2799.1	2795.5	2755.1	2573.8	2332.8	2347.0	2447.2	2529.9	2654.8	2728.7	2989.1
15°	2090.1	2058.4	2040.8	1893.0	1755.8	1785.7	1835.0	1843.8	1922.9	1966.9	2178.1
17.5°	1579.8	1595.7	1615.0	1509.5	1405.6	1386.3	1347.6	1300.2	1323.0	1331.8	1437.3
20°	1254.3	1317.8	1365.2	1291.4	1185.8	1129.4	1080.2	1048.5	1048.5	1046.8	1076.7
22.5°	1096.1	1141.8	1192.8	1141.8	1046.8	997.5	969.3	944.8	941.2	941.2	969.3
25°	1009.9	1043.3	1092.5	1057.3	986.9	950.0	923.6	892.0	879.6	876.2	895.5
27.5°	967.6	981.7	1006.3	974.7	914.8	897.2	890.2	862.0	846.2	837.4	856.8
30°	895.5	892.0	893.8	862.0	814.6	812.8	825.1	830.4	825.1	823.4	853.2
32.5°	828.6	821.6	819.8	791.7	747.7	737.1	747.7	758.2	770.6	788.2	823.4
35°	744.2	761.8	772.3	747.7	694.9	663.3	650.9	631.6	621.0	621.0	661.5
37.5°	677.3	717.8	733.7	710.7	652.7	608.8	587.6	584.1	585.8	592.9	631.6
40°	654.5	684.4	698.5	675.6	617.6	577.0	564.8	561.2	564.8	575.3	614.0
42.5°	640.4	661.5	659.7	631.6	584.1	556.0	548.9	545.3	548.9	559.5	601.7
45°	628.1	642.1	628.1	594.6	550.7	536.5	538.4	536.5	540.1	550.7	591.2
47.5°	617.6	622.8	605.2	571.7	526.0	522.5	529.6	534.8	538.4	547.2	589.3
50°	601.7	601.7	585.8	550.7	504.9	506.7	515.5	527.8	529.6	540.1	573.6
52.5°	582.4	580.5	570.0	536.5	487.3	492.7	492.7	506.7	510.2	522.5	557.7
55°	566.5	562.9	557.7	526.0	471.5	480.3	475.1	480.3	489.1	501.5	540.1
57.5°	552.4	545.3	545.3	517.2	459.2	462.7	450.4	457.5	468.0	478.5	519.0
60°	538.4	531.3	534.8	504.9	439.9	436.3	431.1	445.1	448.7	460.9	501.5
62.5°	522.5	517.2	519.0	490.8	425.8	417.0	417.0	429.2	431.1	448.7	487.3
65°	510.2	503.2	501.5	476.8	409.9	399.4	404.7	409.9	413.5	431.1	468.0
67.5°	497.9	483.9	483.9	464.4	392.3	381.8	392.3	390.6	395.9	411.6	441.6
70°	482.0	462.7	464.4	455.6	374.7	362.4	371.2	369.5	373.0	383.5	413.5
72.5°	457.5	441.6	445.1	441.6	357.1	339.5	343.1	343.1	343.1	351.9	383.5
75°	425.8	413.5	424.0	432.8	336.0	311.4	315.0	315.0	309.6	315.0	353.6
77.5°	387.1	380.0	415.2	402.8	311.4	281.5	281.5	277.9	267.4	274.5	316.7
80°	344.8	339.5	383.5	337.8	283.3	244.6	241.0	232.2	221.7	227.0	269.1
82.5°	300.8	295.5	321.9	258.6	244.6	202.3	193.5	177.7	167.2	172.4	211.1
85°	246.3	246.3	248.1	195.3	186.5	154.8	144.2	123.2	110.8	114.4	151.3
87.5°	175.9	181.2	167.2	133.7	110.8	86.2	79.2	66.9	56.3	65.1	79.2
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: P191294

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	9294.4	9488.0	9707.8	9989.3	10230.3	10626.2	11006.2	11235.0
5°	6949.2	7271.2	7672.3	8187.8	8668.1	9389.5	10105.4	10564.6
7.5°	4973.6	5318.4	5751.1	6395.1	7074.2	7994.3	8940.8	9489.7
10°	4115.0	4468.7	4832.8	5267.4	5823.2	6824.3	7943.2	8562.5
12.5°	3404.3	3782.5	4174.9	4632.2	5147.7	6041.4	7331.0	8043.6
15°	2605.6	3027.7	3490.4	4069.3	4715.0	5747.7	7179.7	7953.9
17.5°	1785.7	2257.1	2825.5	3539.7	4329.6	5652.6	7450.7	8342.6
20°	1229.8	1572.8	2179.8	3017.2	3967.2	5640.3	7971.4	9088.6
22.5°	1029.2	1182.2	1625.6	2536.9	3694.6	5791.6	8779.0	10135.4
25°	951.8	1043.3	1298.3	2120.0	3495.7	6140.0	9890.8	11490.0
27.5°	906.0	988.7	1178.7	1847.2	3339.1	6544.6	10972.8	12802.4
30°	923.6	1008.1	1145.3	1708.3	3126.2	6882.4	11933.3	13826.4
32.5°	832.2	869.1	981.7	1585.2	2973.2	7165.7	12774.3	14674.3
35°	709.0	774.1	876.2	1527.1	2976.8	7355.6	13690.9	15758.0
37.5°	675.6	740.6	814.6	1506.0	3017.2	7558.0	14743.0	17028.3
40°	654.5	714.3	777.6	1493.6	3056.0	7742.7	15773.9	18284.4
42.5°	640.4	694.9	774.1	1451.5	3075.3	7908.1	16621.9	19352.4
45°	638.6	694.9	788.2	1409.2	3105.2	8085.8	17332.7	20142.3
47.5°	640.4	717.8	761.8	1358.2	3105.2	8383.1	18166.6	20847.7
50°	633.3	756.5	733.7	1286.1	3033.0	8946.1	19310.1	21792.5
52.5°	629.8	751.3	679.1	1175.2	2908.1	9839.8	20775.6	23094.4
55°	621.0	724.9	640.4	1009.9	2762.1	10814.4	22344.9	24633.8
57.5°	612.2	642.1	619.3	865.6	2536.9	11500.6	23425.2	25835.4
60°	686.1	561.2	601.7	795.2	2236.1	11688.8	23382.9	26313.9
62.5°	635.2	526.0	578.8	779.4	2024.9	11161.0	22302.7	26055.3
65°	497.9	503.2	556.0	825.1	1968.7	9762.4	20388.5	24860.8
67.5°	455.6	480.3	533.1	883.2	1974.0	7816.6	17528.0	22258.7
70°	429.2	455.6	506.7	913.1	1988.0	5826.8	13858.0	18129.7
72.5°	399.4	422.3	476.8	918.4	1896.6	4232.9	10680.7	13330.3
75°	364.2	385.2	434.5	800.5	1571.0	2936.3	8170.2	9120.2
77.5°	323.7	339.5	381.8	617.6	1166.4	1879.0	6132.9	6662.5
80°	276.2	285.0	320.2	452.1	798.7	1175.2	4852.2	5346.6
82.5°	221.7	225.2	248.1	339.5	519.0	754.7	3249.4	3708.6
85°	156.6	156.6	170.6	246.3	353.6	478.5	1764.6	1956.4
87.5°	73.9	75.7	75.7	135.4	184.7	242.7	406.4	249.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)