

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: P191274

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191274
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 21086.1 lumens
Efficiency: N/A
Efficacy: 109.3 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

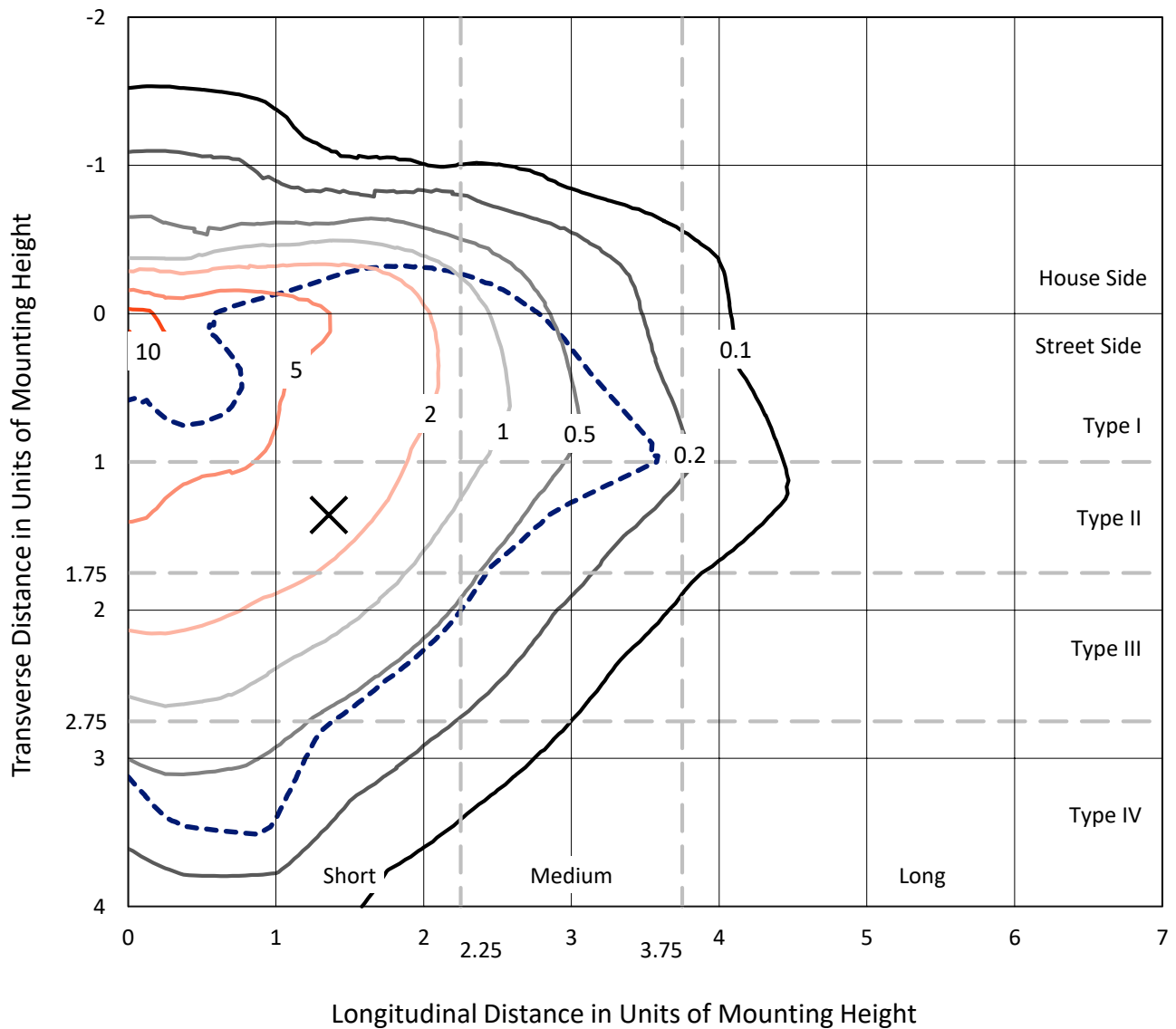
Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

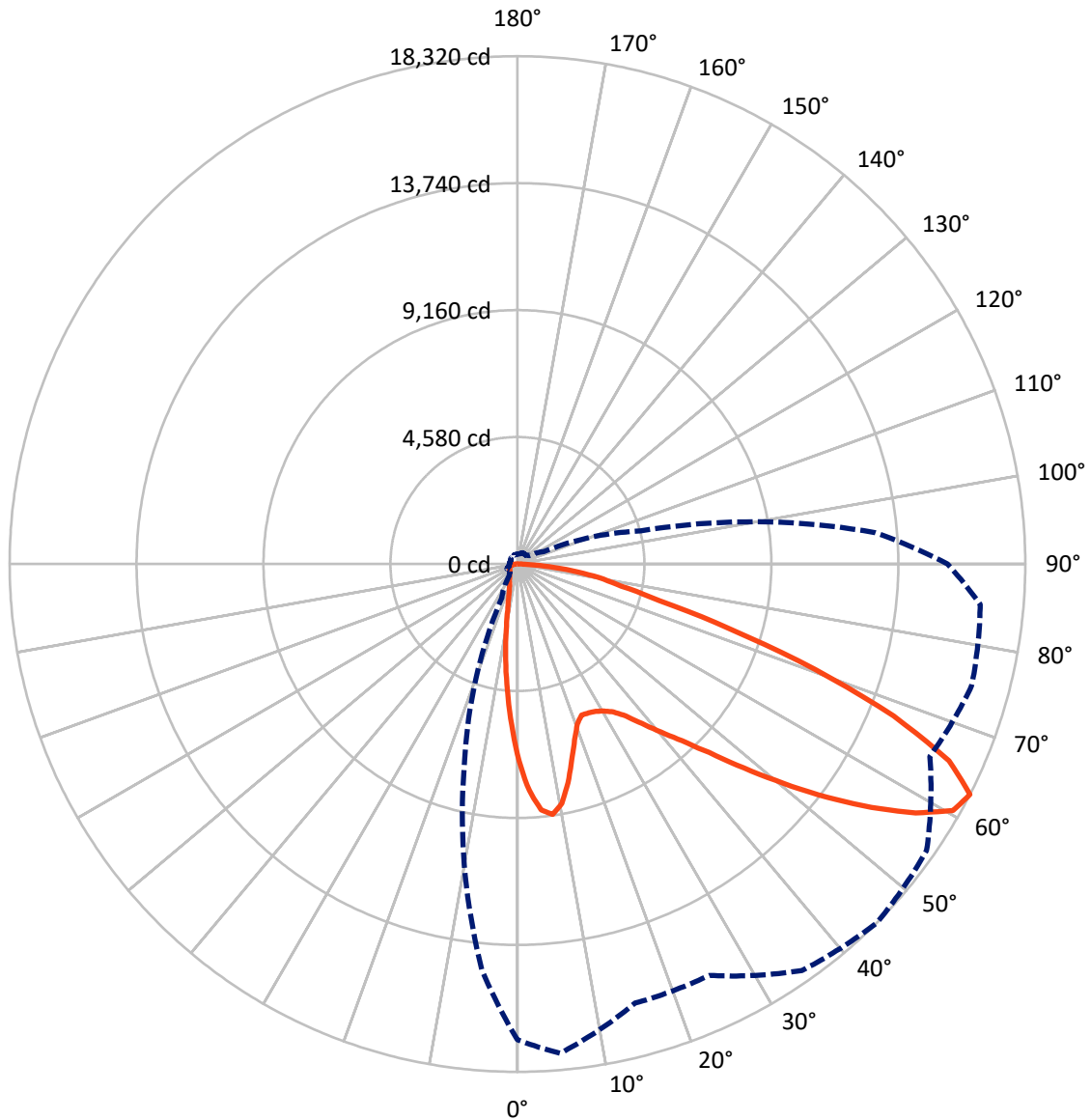
✕ Max cd
 - - - 1/2 Max cd



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

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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	3489.5	0.0	3489.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17596.6	0.0	17596.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	21086.1	0.0	21086.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	2.5
10°-20°	951.0	4.5
20°-30°	1386.5	6.6
30°-40°	2135.4	10.1
40°-50°	3142.8	14.9
50°-60°	4609.8	21.9
60°-70°	5153.1	24.4
70°-80°	2522.9	12.0
80°-90°	666.1	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°	21086.1	100.0
0°-180°	21086.1	100.0



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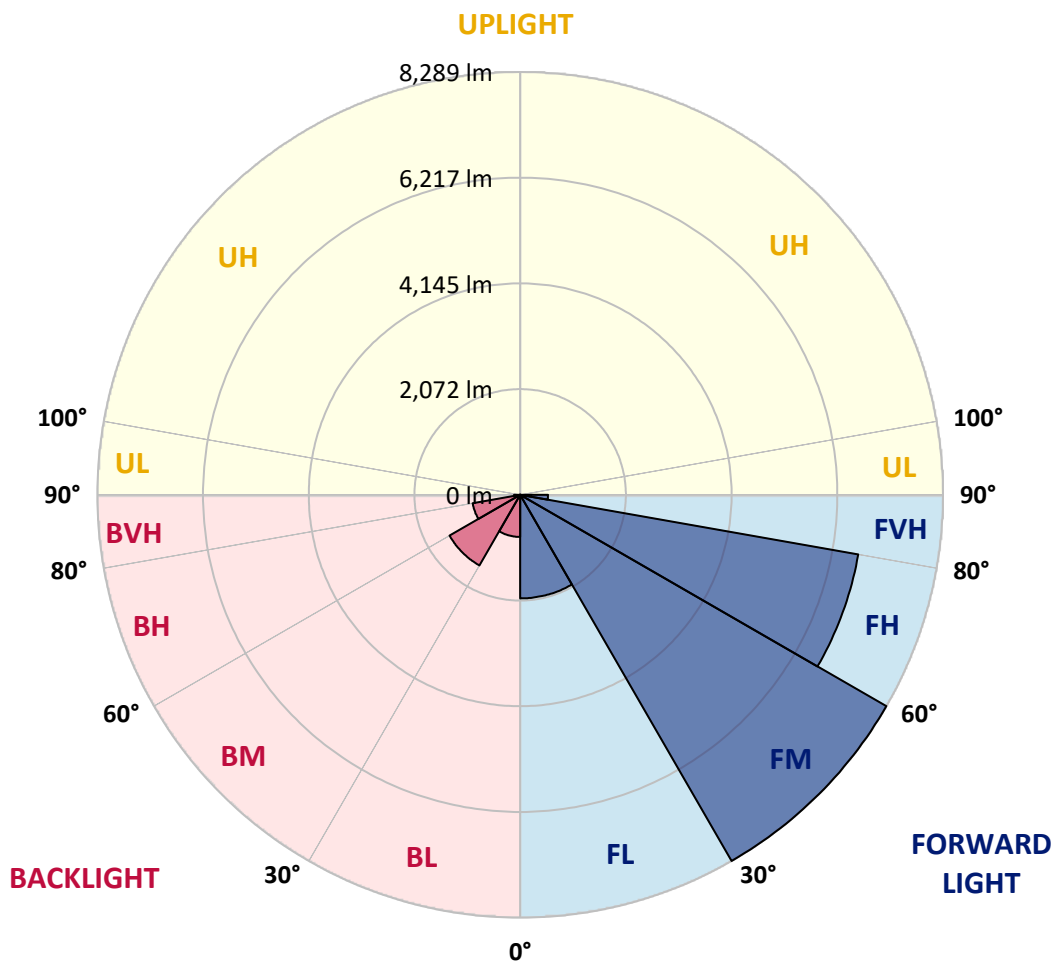
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.5	9.6			
FM	(30°-60°)	8289.1	39.3			
FH	(60°-80°)	6730.0	31.9			G3/7500
FVH	(80°-90°)	547.0	2.6			G4/750
BL	(0°-30°)	825.5	3.9	B2/1000		
BM	(30°-60°)	1598.8	7.6	B2/2500		
BH	(60°-80°)	946.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	119.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	7402.2	7520.4	7751.1	7923.8	8133.6	8182.3	8249.5	8183.5	8066.4	7911.1	7860.0
5°	6960.6	7213.2	7773.1	8265.7	8703.9	8908.0	8964.7	8796.7	8457.0	8010.7	7738.3
7.5°	6252.4	6611.6	7369.7	8095.3	8741.0	9122.4	9113.1	8722.5	8097.7	7370.9	6933.9
10°	5641.5	6051.8	6921.2	7732.6	8417.6	8787.4	8644.8	8145.2	7399.9	6562.9	6088.9
12.5°	5299.5	5701.7	6583.8	7398.7	7971.3	8098.8	7989.9	7500.7	6798.3	5952.1	5537.1
15°	5240.5	5682.1	6449.4	7112.5	7433.5	7322.2	7192.4	6973.4	6477.2	5755.1	5322.7
17.5°	5496.6	5983.4	6603.6	6913.1	6858.6	6665.0	6627.9	6652.2	6532.9	5974.1	5475.8
20°	5988.0	6572.3	6971.0	6819.2	6421.6	6155.0	6164.3	6536.3	6889.9	6529.4	5960.2
22.5°	6677.7	7344.3	7500.7	6869.0	6237.2	5920.8	5997.4	6600.1	7459.1	7340.8	6614.0
25°	7570.2	8177.7	8065.3	7049.9	6255.9	5949.8	6011.3	6820.3	8131.3	8152.2	7423.0
27.5°	8434.9	8998.3	8539.3	7289.8	6332.4	6018.2	6099.3	7166.9	8773.4	9033.1	8348.1
30°	9109.6	9501.4	8727.1	7508.9	6483.1	6151.5	6252.4	7496.1	9065.6	9627.7	9059.8
32.5°	9668.3	9949.9	9026.1	7780.1	6760.1	6361.3	6538.7	7896.0	9486.3	10193.4	9756.4
35°	10382.3	10462.3	9398.3	8082.6	7187.8	6726.4	6946.7	8287.7	9887.4	10764.8	10442.6
37.5°	11219.2	11116.1	9749.4	8496.4	7740.7	7297.9	7479.9	8717.8	10217.7	11412.8	11143.9
40°	12046.9	11798.8	10189.9	9138.6	8547.5	7971.3	8187.0	9176.8	10526.1	12061.9	11828.9
42.5°	12750.5	12383.0	10624.6	9844.5	9298.5	8714.3	8971.7	9639.4	10820.5	12616.0	12423.5
45°	13270.8	12814.2	11038.4	10522.6	10333.6	9702.0	9823.6	10169.1	11139.2	13078.4	12912.7
47.5°	13735.7	13247.7	11506.7	11206.4	11239.0	10986.3	10790.4	10785.7	11514.8	13456.3	13375.2
50°	14358.1	13849.3	12009.7	11911.2	12597.4	12429.4	11997.0	11505.5	11990.0	13885.2	13875.9
52.5°	15215.9	14802.1	12624.1	12670.5	13865.5	13975.7	13440.1	12370.2	12734.2	14672.3	14616.6
55°	16230.1	15989.0	13461.0	13543.3	15421.1	15499.9	14967.8	13451.7	13828.5	15811.6	15657.5
57.5°	17021.8	16970.9	14379.0	14591.2	16582.5	16937.2	16448.0	14703.6	15061.7	16771.5	16384.3
60°	17337.1	17584.0	15356.1	15648.3	17657.1	18050.0	17621.1	15803.6	16154.8	17169.0	16334.5
62.5°	17166.8	17718.4	16397.1	16372.7	17896.9	18320.0	18018.7	16415.6	16965.0	16758.7	15508.0
65°	16379.7	17235.1	17000.9	16186.0	17076.3	17111.1	17013.7	16142.1	17156.3	15461.6	13910.7
67.5°	14665.3	15896.3	16205.8	14586.5	14862.4	14636.4	14472.9	14644.5	16159.5	13517.8	11691.0
70°	11944.8	13797.2	13945.5	11666.7	11541.4	11389.6	11063.9	12006.3	14192.4	11079.0	9276.5
72.5°	8782.7	10730.0	11185.6	8556.7	7977.2	8008.5	7751.1	9048.2	11539.2	8229.8	6925.8
75°	6008.9	7769.6	8751.4	5970.7	5275.2	5287.9	5255.5	6411.1	9190.7	5724.9	5182.5
77.5°	4389.6	5551.0	6600.1	4014.1	3897.0	3825.1	3807.7	4485.8	7046.4	4156.7	4024.5
80°	3522.6	4101.0	4433.7	2781.9	2991.7	2985.9	2889.7	3084.4	4601.7	3040.4	3010.2
82.5°	2443.4	3151.7	3592.2	2180.3	2019.2	1985.5	2008.8	2297.4	3252.5	2078.3	1976.3
85°	1288.9	2093.4	3557.4	1932.3	1198.6	956.3	1189.3	1881.3	2817.8	1101.2	964.4
87.5°	164.6	605.1	2355.3	770.8	472.9	255.0	564.5	1059.5	1809.4	224.8	195.9
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°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	7729.1	7575.0	7373.2	7186.6	6993.0	6800.6	6549.1	6391.4	6282.5	6261.6	6215.2
5°	7541.3	7029.0	6641.8	6306.8	6003.2	5574.3	5336.6	5139.6	5034.1	5023.7	4998.1
7.5°	6675.5	5968.4	5445.6	4971.5	4541.5	4194.9	3812.3	3633.8	3560.9	3578.3	3595.7
10°	5774.8	4984.2	4383.9	3899.3	3520.3	3228.2	2921.0	2713.5	2569.8	2540.8	2535.0
12.5°	5116.4	4249.3	3666.4	3324.4	3031.1	2756.4	2430.7	2186.1	1999.5	1935.7	1892.9
15°	4838.3	3890.1	3279.2	2910.6	2587.1	2238.3	1935.7	1679.6	1508.0	1452.4	1421.1
17.5°	4897.4	3790.3	3012.6	2540.8	2127.0	1763.1	1381.7	1162.6	1059.5	1032.8	1032.8
20°	5207.9	3771.8	2792.3	2200.1	1684.2	1262.3	949.3	824.2	790.5	787.1	796.4
22.5°	5643.8	3836.7	2627.8	1904.4	1308.7	921.5	739.5	693.2	678.1	681.6	692.0
25°	6292.9	4055.8	2508.4	1641.3	1026.9	754.6	659.5	631.8	624.8	634.0	646.8
27.5°	7062.6	4274.9	2434.2	1443.1	867.1	689.7	627.1	598.1	602.7	614.4	625.9
30°	7738.3	4454.5	2317.1	1301.7	817.2	693.2	627.1	587.7	583.1	585.3	588.8
32.5°	8344.6	4576.3	2180.3	1167.3	704.7	615.5	585.3	579.6	554.0	544.8	545.9
35°	8867.3	4576.3	2098.1	1088.4	631.8	545.9	497.3	468.3	455.5	456.7	469.4
37.5°	9371.6	4484.7	2057.5	1044.3	592.3	519.2	476.4	450.9	433.5	430.0	432.4
40°	9816.6	4351.3	2011.1	1025.8	562.2	503.1	462.5	441.6	423.1	417.3	418.5
42.5°	10173.7	4243.6	1960.1	1001.5	543.6	491.4	453.3	434.7	413.8	408.1	406.8
45°	10559.7	4207.6	1892.9	952.8	552.9	492.7	450.9	431.2	410.3	403.3	401.1
47.5°	11068.5	4320.1	1823.3	894.9	572.6	498.4	454.4	431.2	409.2	403.3	401.1
50°	11709.5	4584.4	1735.2	810.3	552.9	514.6	453.3	427.7	409.2	403.3	398.7
52.5°	12532.5	4941.4	1619.3	712.9	541.3	554.0	450.9	420.7	403.3	395.3	387.2
55°	13532.8	5233.5	1481.3	632.9	514.6	543.6	447.4	412.7	394.1	382.5	375.5
57.5°	14265.5	5339.0	1304.1	580.7	477.5	526.2	442.8	402.2	382.5	373.3	364.0
60°	14120.5	5134.9	1154.5	548.3	455.5	475.3	439.4	392.9	372.0	365.1	357.0
62.5°	12960.3	4601.7	1058.2	533.2	441.6	433.5	442.8	383.7	362.8	355.9	353.5
65°	11220.3	3814.7	1020.0	529.7	430.0	409.2	411.5	373.3	352.4	346.6	344.2
67.5°	9255.7	3078.7	986.4	541.3	415.0	391.8	380.2	359.4	342.0	336.1	331.5
70°	7299.1	2560.5	971.4	534.4	396.4	374.4	361.6	344.2	329.2	323.4	319.9
72.5°	5878.0	2162.9	963.2	527.4	372.0	351.2	339.6	324.6	308.3	306.0	302.5
75°	4973.8	1700.5	882.1	505.3	344.2	323.4	315.3	301.4	285.1	285.1	282.8
77.5°	3836.7	1229.8	733.8	447.4	315.3	292.1	285.1	274.8	256.1	259.6	258.5
80°	2834.1	802.1	573.8	370.9	279.4	257.4	253.9	243.5	223.7	228.3	228.3
82.5°	1941.6	526.2	412.7	303.7	238.8	217.9	217.9	207.5	185.5	187.8	194.8
85°	974.9	361.6	308.3	235.3	185.5	175.0	175.0	166.9	144.8	146.1	155.3
87.5°	296.8	217.9	204.0	168.1	133.3	130.9	125.2	119.4	105.5	104.3	110.1
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°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	6144.6	6078.5	5998.5	5822.3	5763.2	5759.7	5813.0	5757.4	5864.1	5818.9	5868.7
5°	4955.3	4890.4	4801.1	4576.3	4439.5	4346.7	4302.7	4172.8	4266.7	4198.4	4255.2
7.5°	3644.3	3659.4	3600.3	3468.1	3170.2	3020.7	2932.6	2853.8	2922.2	2915.2	3024.1
10°	2561.7	2602.3	2560.5	2427.3	2186.1	2103.8	2120.1	2151.4	2240.6	2287.0	2455.1
12.5°	1844.2	1841.8	1815.2	1695.8	1537.0	1546.3	1612.4	1666.8	1749.1	1797.8	1969.4
15°	1377.1	1356.2	1344.6	1247.2	1156.9	1176.5	1208.9	1214.8	1266.9	1295.9	1435.0
17.5°	1040.9	1051.3	1064.1	994.5	926.2	913.4	887.9	856.6	871.7	877.5	947.0
20°	826.4	868.2	899.5	850.8	781.2	744.2	711.7	690.8	690.8	689.7	709.4
22.5°	722.1	752.3	785.9	752.3	689.7	657.2	638.7	622.5	620.1	620.1	638.7
25°	665.3	687.3	719.9	696.6	650.3	625.9	608.6	587.7	579.6	577.3	590.0
27.5°	637.5	646.8	663.0	642.2	602.7	591.2	586.6	567.9	557.5	551.8	564.5
30°	590.0	587.7	588.8	567.9	536.6	535.5	543.6	547.1	543.6	542.5	562.2
32.5°	545.9	541.3	540.1	521.6	492.7	485.7	492.7	499.6	507.7	519.2	542.5
35°	490.3	501.9	508.8	492.7	457.9	437.0	428.9	416.1	409.2	409.2	435.9
37.5°	446.3	472.9	483.3	468.3	430.0	401.1	387.2	384.8	386.0	390.7	416.1
40°	431.2	450.9	460.2	445.1	406.8	380.2	372.0	369.8	372.0	379.0	404.6
42.5°	422.0	435.9	434.7	416.1	384.8	366.3	361.6	359.4	361.6	368.6	396.4
45°	413.8	423.1	413.8	391.8	362.8	353.5	354.7	353.5	355.9	362.8	389.4
47.5°	406.8	410.3	398.7	376.8	346.6	344.2	348.9	352.4	354.7	360.5	388.3
50°	396.4	396.4	386.0	362.8	332.7	333.8	339.6	347.7	348.9	355.9	377.9
52.5°	383.7	382.5	375.5	353.5	321.1	324.6	324.6	333.8	336.1	344.2	367.4
55°	373.3	370.9	367.4	346.6	310.7	316.4	312.9	316.4	322.2	330.3	355.9
57.5°	364.0	359.4	359.4	340.7	302.5	304.8	296.8	301.4	308.3	315.3	342.0
60°	354.7	350.1	352.4	332.7	289.8	287.4	284.0	293.3	295.5	303.7	330.3
62.5°	344.2	340.7	342.0	323.4	280.5	274.8	274.8	282.8	284.0	295.5	321.1
65°	336.1	331.5	330.3	314.1	270.1	263.1	266.6	270.1	272.4	284.0	308.3
67.5°	328.1	318.8	318.8	306.0	258.5	251.5	258.5	257.4	260.9	271.3	290.9
70°	317.6	304.8	306.0	300.2	246.9	238.8	244.6	243.5	245.7	252.7	272.4
72.5°	301.4	290.9	293.3	290.9	235.3	223.7	226.1	226.1	226.1	231.8	252.7
75°	280.5	272.4	279.4	285.1	221.4	205.2	207.5	207.5	204.0	207.5	233.0
77.5°	255.0	250.4	273.5	265.5	205.2	185.5	185.5	183.1	176.2	180.9	208.7
80°	227.2	223.7	252.7	222.6	186.6	161.1	158.8	153.0	146.1	149.6	177.4
82.5°	198.2	194.8	212.2	170.4	161.1	133.3	127.5	117.0	110.1	113.5	139.1
85°	162.2	162.2	163.5	128.7	122.9	102.0	95.0	81.1	73.0	75.4	99.6
87.5°	115.9	119.4	110.1	88.1	73.0	56.8	52.2	44.1	37.1	42.9	52.2
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	6123.7	6251.2	6396.1	6581.6	6740.3	7001.2	7251.5	7402.2
5°	4578.5	4790.7	5055.0	5394.6	5711.0	6186.3	6658.1	6960.6
7.5°	3276.8	3504.0	3789.2	4213.4	4660.9	5267.1	5890.7	6252.4
10°	2711.2	2944.2	3184.1	3470.5	3836.7	4496.3	5233.5	5641.5
12.5°	2242.9	2492.1	2750.6	3052.0	3391.6	3980.4	4830.1	5299.5
15°	1716.7	1994.9	2299.7	2681.1	3106.5	3786.9	4730.4	5240.5
17.5°	1176.5	1487.2	1861.6	2332.1	2852.6	3724.3	4908.9	5496.6
20°	810.3	1036.2	1436.1	1987.9	2613.8	3716.2	5252.0	5988.0
22.5°	678.1	779.0	1071.0	1671.5	2434.2	3815.8	5784.1	6677.7
25°	627.1	687.3	855.4	1396.7	2303.2	4045.4	6516.6	7570.2
27.5°	597.0	651.4	776.6	1217.1	2200.1	4311.9	7229.5	8434.9
30°	608.6	664.2	754.6	1125.6	2059.8	4534.5	7862.4	9109.6
32.5°	548.3	572.6	646.8	1044.3	1959.0	4721.1	8416.4	9668.3
35°	467.1	510.0	577.3	1006.2	1961.2	4846.3	9020.4	10382.3
37.5°	445.1	487.9	536.6	992.3	1987.9	4979.6	9713.5	11219.2
40°	431.2	470.6	512.3	984.1	2013.4	5101.4	10392.8	12046.9
42.5°	422.0	457.9	510.0	956.3	2026.2	5210.3	10951.5	12750.5
45°	420.7	457.9	519.2	928.4	2045.9	5327.3	11419.7	13270.8
47.5°	422.0	472.9	501.9	894.9	2045.9	5523.2	11969.1	13735.7
50°	417.3	498.4	483.3	847.3	1998.3	5894.1	12722.6	14358.1
52.5°	415.0	494.9	447.4	774.3	1916.1	6483.1	13688.2	15215.9
55°	409.2	477.5	422.0	665.3	1819.8	7125.2	14722.1	16230.1
57.5°	403.3	423.1	408.1	570.3	1671.5	7577.2	15433.8	17021.8
60°	452.0	369.8	396.4	524.0	1473.3	7701.3	15406.0	17337.1
62.5°	418.5	346.6	381.4	513.5	1334.1	7353.5	14694.3	17166.8
65°	328.1	331.5	366.3	543.6	1297.1	6432.0	13433.2	16379.7
67.5°	300.2	316.4	351.2	581.9	1300.6	5150.0	11548.4	14665.3
70°	282.8	300.2	333.8	601.6	1309.8	3839.0	9130.4	11944.8
72.5°	263.1	278.1	314.1	605.1	1249.5	2788.9	7037.1	8782.7
75°	240.0	253.9	286.3	527.4	1035.1	1934.6	5383.0	6008.9
77.5°	213.3	223.7	251.5	406.8	768.5	1238.0	4040.8	4389.6
80°	182.0	187.8	210.9	297.9	526.2	774.3	3196.9	3522.6
82.5°	146.1	148.3	163.5	223.7	342.0	497.3	2140.9	2443.4
85°	103.1	103.1	112.4	162.2	233.0	315.3	1162.6	1288.9
87.5°	48.7	49.8	49.8	89.3	121.7	160.0	267.8	164.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)