

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: P191304

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191304
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA 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: 35108.7 lumens
Efficiency: N/A
Efficacy: 91.9 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

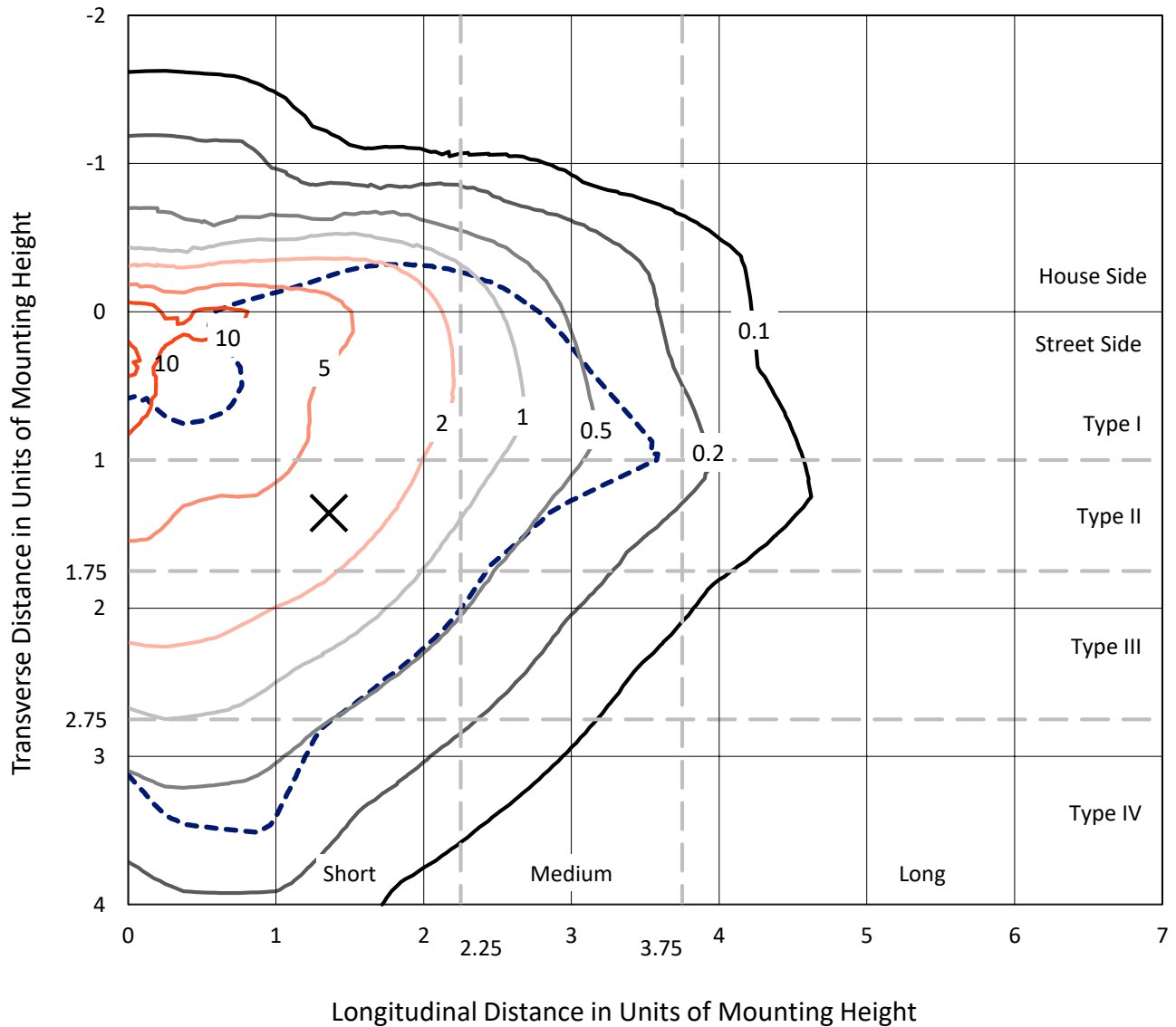
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

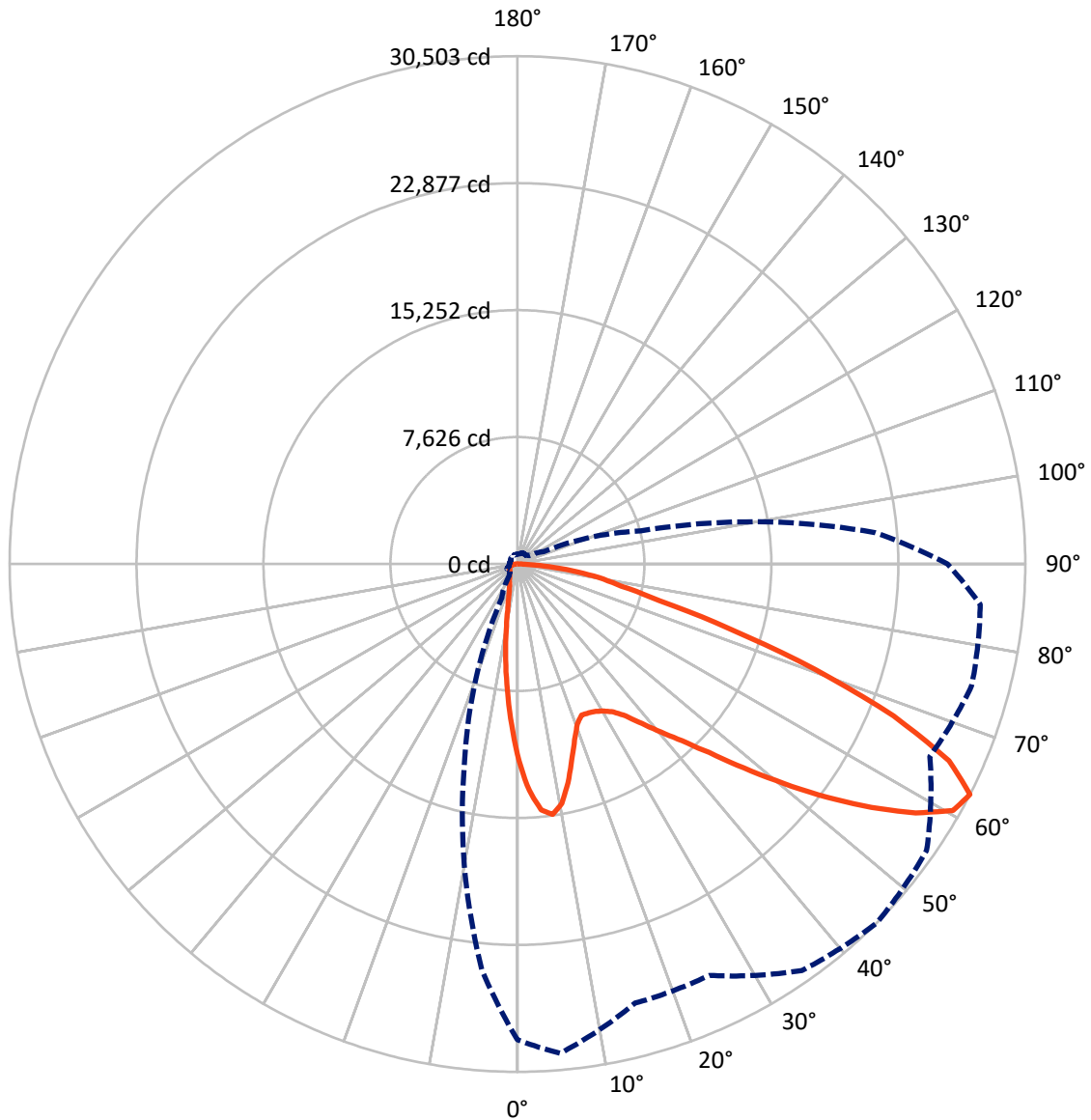
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 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	5810.0	0.0	5810.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29298.7	0.0	29298.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	35108.7	0.0	35108.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.5	2.5
10°-20°	1583.4	4.5
20°-30°	2308.6	6.6
30°-40°	3555.5	10.1
40°-50°	5232.8	14.9
50°-60°	7675.4	21.9
60°-70°	8579.9	24.4
70°-80°	4200.6	12.0
80°-90°	1109.1	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°	35108.7	100.0
0°-180°	35108.7	100.0

Coefficient of Utilization



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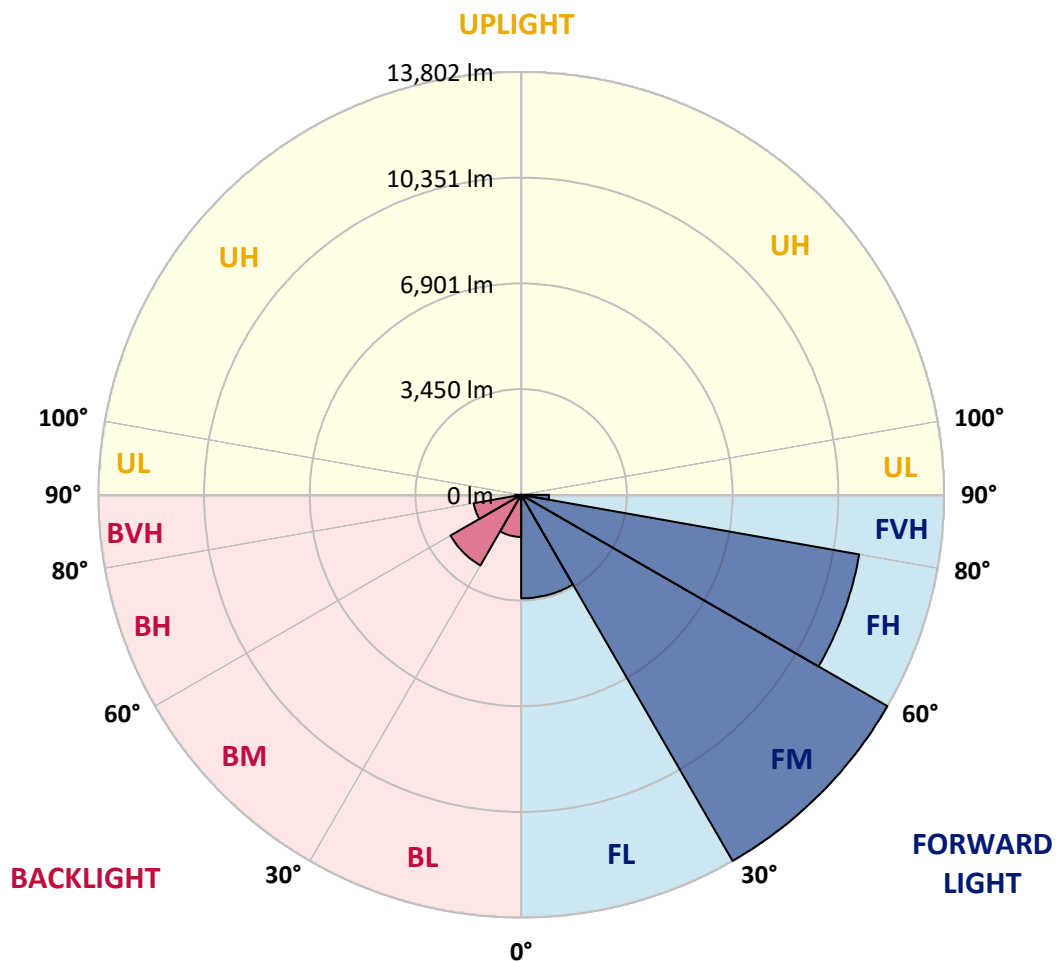
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.9	9.6			
FM (30°-60°)	13801.5	39.3			
FH (60°-80°)	11205.5	31.9			G4/12000
FVH (80°-90°)	910.8	2.6			G5
BL (0°-30°)	1374.6	3.9	B3/2500		
BM (30°-60°)	2662.1	7.6	B3/5000		
BH (60°-80°)	1575.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	198.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	12324.8	12521.6	12905.8	13193.3	13542.6	13623.7	13735.6	13625.6	13430.6	13172.0	13087.1
5°	11589.5	12010.3	12942.4	13762.7	14492.1	14831.9	14926.4	14646.5	14081.1	13338.1	12884.5
7.5°	10410.3	11008.6	12270.8	13478.9	14553.9	15188.9	15173.4	14523.0	13482.8	12272.6	11545.1
10°	9393.1	10076.4	11523.8	12874.9	14015.4	14631.2	14393.7	13561.9	12320.9	10927.5	10138.2
12.5°	8823.9	9493.5	10962.2	12319.0	13272.4	13484.7	13303.3	12488.9	11319.3	9910.4	9219.4
15°	8725.4	9460.8	10738.3	11842.3	12376.9	12191.6	11975.5	11610.7	10784.7	9582.3	8862.4
17.5°	9151.9	9962.5	10995.1	11510.3	11419.6	11097.4	11035.6	11076.1	10877.3	9947.1	9117.2
20°	9970.2	10942.9	11606.8	11354.0	10692.1	10248.1	10263.6	10883.1	11471.8	10871.5	9924.0
22.5°	11118.6	12228.4	12488.9	11437.0	10385.2	9858.3	9985.6	10989.3	12419.3	12222.5	11012.4
25°	12604.7	13616.0	13428.8	11738.1	10416.1	9906.6	10008.9	11356.0	13538.8	13573.5	12359.5
27.5°	14044.4	14982.3	14218.1	12137.6	10543.5	10020.4	10155.5	11933.0	14607.9	15040.2	13899.7
30°	15167.7	15819.9	14530.7	12502.4	10794.4	10242.4	10410.3	12481.1	15094.4	16030.4	15084.6
32.5°	16097.9	16566.9	15028.7	12953.9	11255.6	10591.7	10887.0	13147.0	15794.9	16972.2	16244.6
35°	17286.7	17419.9	15648.2	13457.7	11967.7	11199.7	11566.3	13799.3	16462.7	17923.6	17387.1
37.5°	18680.2	18508.5	16233.0	14146.7	12888.4	12151.1	12454.1	14515.4	17012.7	19002.5	18554.8
40°	20058.2	19645.2	16966.4	15215.9	14231.6	13272.4	13631.4	15279.6	17526.1	20083.3	19695.4
42.5°	21229.7	20617.9	17690.1	16391.3	15482.3	14509.5	14937.9	16049.7	18016.3	21005.8	20685.4
45°	22096.2	21335.9	18379.2	17520.3	17205.7	16153.8	16356.5	16931.7	18547.0	21775.9	21499.9
47.5°	22870.2	22057.7	19158.8	18658.9	18713.0	18292.3	17966.1	17958.4	19172.3	22405.1	22269.9
50°	23906.6	23059.4	19996.4	19832.4	20974.9	20695.1	19975.2	19156.9	19963.6	23119.1	23103.7
52.5°	25334.7	24645.7	21019.3	21096.5	23086.4	23269.7	22378.1	20596.7	21202.7	24429.6	24336.9
55°	27023.5	26622.0	22412.8	22549.8	25676.4	25807.6	24921.7	22397.3	23024.6	26326.8	26070.1
57.5°	28341.7	28256.8	23941.3	24294.5	27610.2	28200.7	27386.3	24481.7	25078.0	27924.7	27280.2
60°	28866.5	29277.7	25568.2	26054.7	29399.3	30053.5	29339.5	26313.3	26898.0	28586.8	27197.2
62.5°	28582.9	29501.6	27301.4	27260.8	29798.8	30503.2	30001.4	27332.2	28247.0	27903.5	25821.1
65°	27272.5	28696.7	28306.9	26950.2	28432.3	28490.2	28328.2	26876.8	28565.5	25743.9	23161.6
67.5°	24418.0	26467.6	26983.0	24286.8	24746.1	24369.8	24097.7	24383.3	26905.8	22507.4	19465.7
70°	19888.3	22972.4	23219.4	19425.1	19216.7	18963.9	18421.6	19990.6	23630.6	18446.7	15445.5
72.5°	14623.4	17865.7	18624.3	14247.0	13282.1	13334.2	12905.8	15065.4	19212.9	13702.8	11531.6
75°	10005.0	12936.6	14571.3	9941.2	8783.3	8804.5	8750.5	10674.7	15302.7	9532.2	8628.9
77.5°	7308.8	9242.7	10989.3	6683.4	6488.6	6368.9	6339.9	7469.0	11732.3	6920.9	6700.8
80°	5865.2	6828.2	7382.1	4631.9	4981.3	4971.6	4811.4	5135.6	7662.0	5062.3	5012.2
82.5°	4068.4	5247.6	5981.0	3630.2	3362.0	3306.1	3344.6	3825.2	5415.5	3460.4	3290.6
85°	2146.2	3485.5	5923.1	3217.3	1995.6	1592.2	1980.1	3132.4	4691.8	1833.4	1605.7
87.5°	274.0	1007.4	3921.7	1283.4	787.5	424.6	939.9	1764.0	3012.7	374.4	326.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	12869.0	12612.4	12276.5	11965.9	11643.5	11323.1	10904.3	10641.9	10460.5	10425.7	10348.5
5°	12556.4	11703.4	11058.7	10501.0	9995.4	9281.2	8885.6	8557.5	8381.9	8364.5	8322.0
7.5°	11114.7	9937.5	9067.0	8277.6	7561.7	6984.6	6347.7	6050.4	5928.9	5957.9	5986.8
10°	9615.1	8298.9	7299.2	6492.5	5861.3	5375.0	4863.5	4518.1	4278.8	4230.5	4220.9
12.5°	8518.9	7075.2	6104.5	5535.2	5046.8	4589.5	4047.1	3640.0	3329.2	3223.0	3151.6
15°	8055.7	6477.0	5459.9	4846.1	4307.7	3726.8	3223.0	2796.5	2510.9	2418.3	2366.2
17.5°	8154.1	6311.0	5016.0	4230.5	3541.5	2935.5	2300.5	1935.7	1764.0	1719.6	1719.6
20°	8671.3	6280.1	4649.3	3663.1	2804.2	2101.8	1580.7	1372.2	1316.2	1310.4	1325.8
22.5°	9397.0	6388.2	4375.3	3170.9	2179.0	1534.3	1231.3	1154.1	1129.0	1134.9	1152.1
25°	10477.8	6753.0	4176.5	2732.8	1710.0	1256.4	1098.1	1051.8	1040.2	1055.7	1077.0
27.5°	11759.3	7117.7	4052.9	2402.8	1443.6	1148.4	1044.1	995.8	1003.6	1022.8	1042.2
30°	12884.5	7416.9	3858.1	2167.3	1360.6	1154.1	1044.1	978.5	970.8	974.7	980.4
32.5°	13893.8	7619.6	3630.2	1943.5	1173.4	1024.8	974.7	964.9	922.5	907.1	909.0
35°	14764.2	7619.6	3493.3	1812.3	1051.8	909.0	828.0	779.7	758.5	760.4	781.6
37.5°	15603.8	7467.0	3425.7	1738.9	986.2	864.6	793.2	750.7	721.8	716.1	719.9
40°	16344.9	7245.2	3348.5	1708.0	936.0	837.6	770.1	735.3	704.4	694.8	696.7
42.5°	16939.3	7065.6	3263.6	1667.5	905.1	818.3	754.6	723.7	689.0	679.3	677.4
45°	17582.1	7005.8	3151.6	1586.4	920.6	820.2	750.7	717.9	683.2	671.7	667.8
47.5°	18429.3	7193.0	3035.8	1489.9	953.4	829.9	756.6	717.9	681.3	671.7	667.8
50°	19496.6	7633.1	2889.1	1349.1	920.6	856.9	754.6	712.2	681.3	671.7	663.9
52.5°	20866.9	8227.5	2696.2	1186.9	901.3	922.5	750.7	700.6	671.7	658.2	644.6
55°	22532.4	8713.8	2466.5	1053.7	856.9	905.1	745.0	687.1	656.2	636.9	625.3
57.5°	23752.2	8889.4	2171.2	966.9	795.1	876.2	737.2	669.7	636.9	621.4	606.0
60°	23510.9	8549.8	1922.2	912.9	758.5	791.3	731.4	654.3	619.5	607.9	594.4
62.5°	21579.0	7662.0	1762.0	887.8	735.3	721.8	737.2	638.8	604.1	592.5	588.6
65°	18682.2	6351.5	1698.4	882.0	716.1	681.3	685.2	621.4	586.7	577.0	573.2
67.5°	15410.9	5126.0	1642.4	901.3	690.9	652.3	633.0	598.3	569.4	559.7	552.0
70°	12153.1	4263.4	1617.3	889.8	660.0	623.4	602.1	573.2	548.1	538.5	532.7
72.5°	9786.9	3601.3	1603.8	878.1	619.5	584.8	565.5	540.4	513.4	509.5	503.7
75°	8281.5	2831.2	1468.8	841.5	573.2	538.5	525.0	501.8	474.8	474.8	470.9
77.5°	6388.2	2047.7	1221.7	745.0	525.0	486.3	474.8	457.4	426.6	432.3	430.4
80°	4718.8	1335.6	955.3	617.6	465.1	428.4	422.7	405.3	372.5	380.2	380.2
82.5°	3232.7	876.2	687.1	505.6	397.6	362.8	362.8	345.5	308.8	312.6	324.3
85°	1623.1	602.1	513.4	391.8	308.8	291.4	291.4	277.9	241.2	243.2	258.6
87.5°	494.1	362.8	339.7	279.9	222.0	218.1	208.5	198.8	175.6	173.7	183.3
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°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	10230.7	10120.8	9987.6	9694.3	9595.8	9590.1	9678.9	9586.2	9763.8	9688.5	9771.4
5°	8250.6	8142.6	7994.0	7619.6	7391.8	7237.4	7164.0	6947.9	7104.2	6990.3	7085.0
7.5°	6067.8	6092.9	5994.5	5774.5	5278.4	5029.5	4882.9	4751.6	4865.5	4853.9	5035.3
10°	4265.2	4332.8	4263.4	4041.4	3640.0	3502.9	3529.9	3582.1	3730.6	3807.8	4087.7
12.5°	3070.6	3066.7	3022.3	2823.5	2559.1	2574.6	2684.6	2775.3	2912.3	2993.4	3279.1
15°	2292.8	2258.1	2238.7	2076.7	1926.1	1959.0	2013.0	2022.6	2109.4	2157.7	2389.3
17.5°	1733.1	1750.5	1771.8	1656.0	1542.1	1520.8	1478.4	1426.3	1451.4	1461.0	1576.8
20°	1376.1	1445.5	1497.7	1416.6	1300.8	1239.0	1185.0	1150.3	1150.3	1148.4	1181.1
22.5°	1202.4	1252.5	1308.6	1252.5	1148.4	1094.3	1063.5	1036.4	1032.6	1032.6	1063.5
25°	1107.8	1144.5	1198.5	1159.9	1082.7	1042.2	1013.2	978.5	964.9	961.2	982.3
27.5°	1061.5	1077.0	1104.0	1069.2	1003.6	984.3	976.6	945.7	928.3	918.7	939.9
30°	982.3	978.5	980.4	945.7	893.5	891.6	905.1	910.9	905.1	903.3	936.0
32.5°	909.0	901.3	899.4	868.5	820.2	808.6	820.2	831.9	845.4	864.6	903.3
35°	816.4	835.6	847.2	820.2	762.3	727.6	714.1	692.8	681.3	681.3	725.7
37.5°	743.1	787.5	804.8	779.7	716.1	667.8	644.6	640.8	642.7	650.4	692.8
40°	717.9	750.7	766.2	741.1	677.4	633.0	619.5	615.6	619.5	631.1	673.5
42.5°	702.5	725.7	723.7	692.8	640.8	609.9	602.1	598.3	602.1	613.8	660.0
45°	689.0	704.4	689.0	652.3	604.1	588.6	590.5	588.6	592.5	604.1	648.4
47.5°	677.4	683.2	663.9	627.3	577.0	573.2	580.9	586.7	590.5	600.3	646.5
50°	660.0	660.0	642.7	604.1	553.9	555.9	565.5	579.0	580.9	592.5	629.2
52.5°	638.8	636.9	625.3	588.6	534.6	540.4	540.4	555.9	559.7	573.2	611.8
55°	621.4	617.6	611.8	577.0	517.2	526.9	521.1	526.9	536.5	550.0	592.5
57.5°	606.0	598.3	598.3	567.4	503.7	507.6	494.1	501.8	513.4	525.0	569.4
60°	590.5	582.9	586.7	553.9	482.5	478.6	472.8	488.3	492.1	505.6	550.0
62.5°	573.2	567.4	569.4	538.5	467.1	457.4	457.4	470.9	472.8	492.1	534.6
65°	559.7	552.0	550.0	523.0	449.7	438.1	443.9	449.7	453.6	472.8	513.4
67.5°	546.2	530.7	530.7	509.5	430.4	418.8	430.4	428.4	434.2	451.6	484.5
70°	528.8	507.6	509.5	499.8	411.1	397.6	407.2	405.3	409.2	420.7	453.6
72.5°	501.8	484.5	488.3	484.5	391.8	372.5	376.3	376.3	376.3	386.0	420.7
75°	467.1	453.6	465.1	474.8	368.7	341.6	345.5	345.5	339.7	345.5	387.9
77.5°	424.6	416.9	455.5	441.9	341.6	308.8	308.8	304.9	293.4	301.1	347.4
80°	378.3	372.5	420.7	370.5	310.8	268.2	264.4	254.7	243.2	249.0	295.3
82.5°	330.0	324.3	353.2	283.7	268.2	222.0	212.3	195.0	183.3	189.1	231.6
85°	270.2	270.2	272.1	214.2	204.6	169.8	158.3	135.1	121.6	125.4	166.0
87.5°	193.0	198.8	183.3	146.7	121.6	94.5	86.8	73.3	61.8	71.4	86.8
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: P191304

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6	11861.6
2.5°	10196.1	10408.3	10649.6	10958.4	11222.8	11657.0	12073.9	12324.8
5°	7623.4	7976.6	8416.6	8982.1	9508.9	10300.3	11085.7	11589.5
7.5°	5456.0	5834.3	6309.0	7015.5	7760.4	8769.8	9808.2	10410.3
10°	4514.2	4902.1	5301.6	5778.3	6388.2	7486.4	8713.8	9393.1
12.5°	3734.5	4149.4	4579.9	5081.6	5647.1	6627.5	8042.2	8823.9
15°	2858.3	3321.5	3829.1	4464.1	5172.3	6305.3	7876.2	8725.4
17.5°	1959.0	2476.2	3099.5	3883.1	4749.7	6201.0	8173.5	9151.9
20°	1349.1	1725.4	2391.2	3309.9	4352.0	6187.5	8744.7	9970.2
22.5°	1129.0	1296.9	1783.3	2783.0	4052.9	6353.4	9630.6	11118.6
25°	1044.1	1144.5	1424.4	2325.6	3834.8	6735.6	10850.3	12604.7
27.5°	993.9	1084.6	1293.1	2026.5	3663.1	7179.5	12037.3	14044.4
30°	1013.2	1105.9	1256.4	1874.0	3429.5	7550.1	13091.0	15167.7
32.5°	912.9	953.4	1077.0	1738.9	3261.7	7860.8	14013.5	16097.9
35°	777.7	849.2	961.2	1675.2	3265.5	8069.2	15019.1	17286.7
37.5°	741.1	812.5	893.5	1652.1	3309.9	8291.1	16173.2	18680.2
40°	717.9	783.6	853.0	1638.6	3352.3	8493.8	17304.1	20058.2
42.5°	702.5	762.3	849.2	1592.2	3373.6	8675.2	18234.4	21229.7
45°	700.6	762.3	864.6	1545.9	3406.4	8870.1	19014.1	22096.2
47.5°	702.5	787.5	835.6	1489.9	3406.4	9196.3	19928.9	22870.2
50°	694.8	829.9	804.8	1410.9	3327.2	9813.9	21183.4	23906.6
52.5°	690.9	824.1	745.0	1289.2	3190.3	10794.4	22791.0	25334.7
55°	681.3	795.1	702.5	1107.8	3030.1	11863.6	24512.6	27023.5
57.5°	671.7	704.4	679.3	949.5	2783.0	12616.3	25697.5	28341.7
60°	752.7	615.6	660.0	872.4	2453.0	12822.7	25651.2	28866.5
62.5°	696.7	577.0	634.9	855.0	2221.4	12243.7	24466.2	28582.9
65°	546.2	552.0	609.9	905.1	2159.7	10709.4	22366.4	27272.5
67.5°	499.8	526.9	584.8	968.8	2165.4	8574.9	19228.3	24418.0
70°	470.9	499.8	555.9	1001.7	2180.8	6392.1	15202.4	19888.3
72.5°	438.1	463.2	523.0	1007.4	2080.5	4643.5	11716.9	14623.4
75°	399.5	422.7	476.7	878.1	1723.5	3221.2	8962.8	10005.0
77.5°	355.1	372.5	418.8	677.4	1279.6	2061.2	6727.8	7308.8
80°	303.0	312.6	351.3	496.0	876.2	1289.2	5322.8	5865.2
82.5°	243.2	247.0	272.1	372.5	569.4	828.0	3564.7	4068.4
85°	171.8	171.8	187.2	270.2	387.9	525.0	1935.7	2146.2
87.5°	81.0	83.0	83.0	148.6	202.6	266.4	445.8	274.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)