

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: P191278

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191278
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-10-LED-E1-SLL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 34896.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

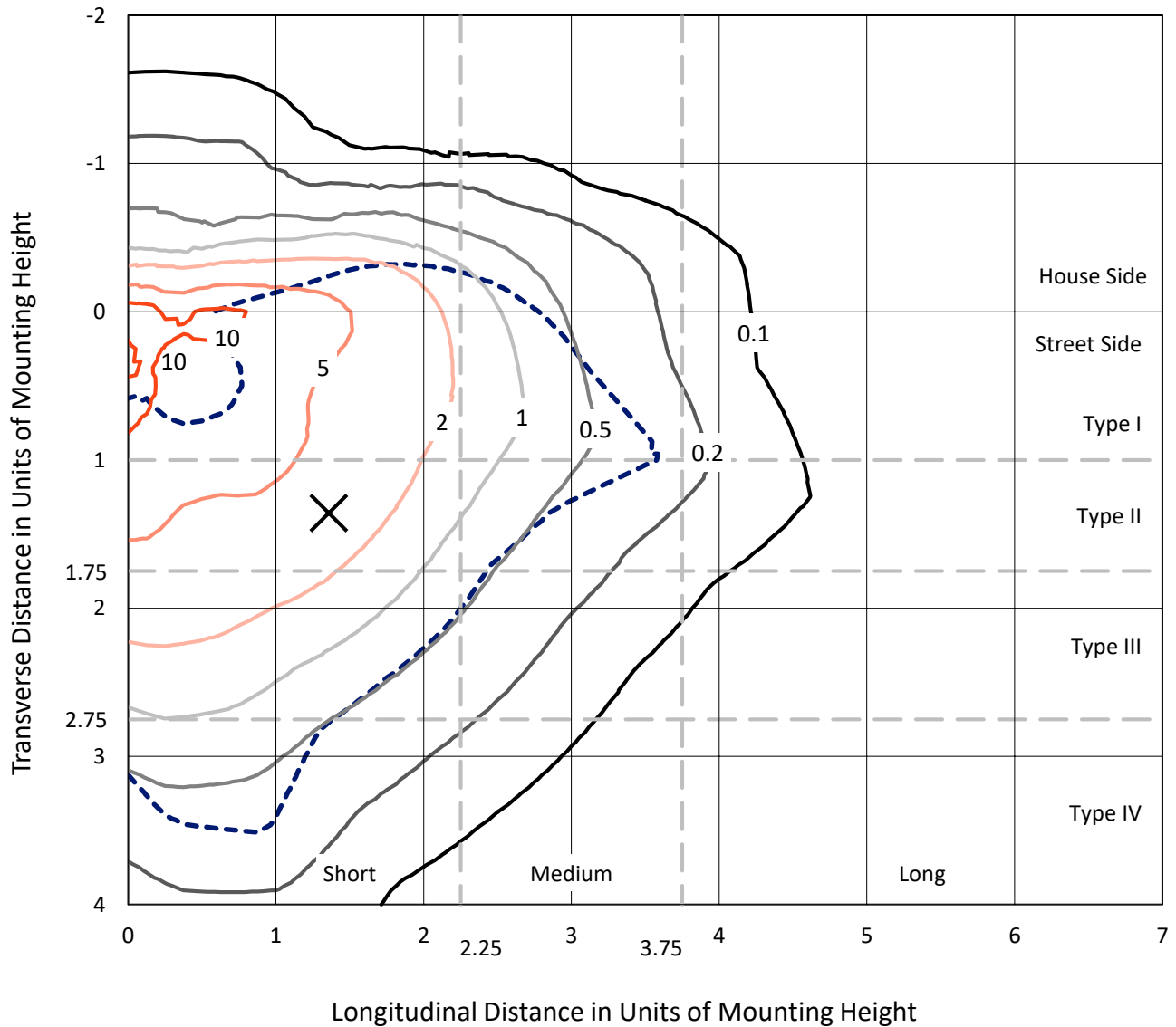
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

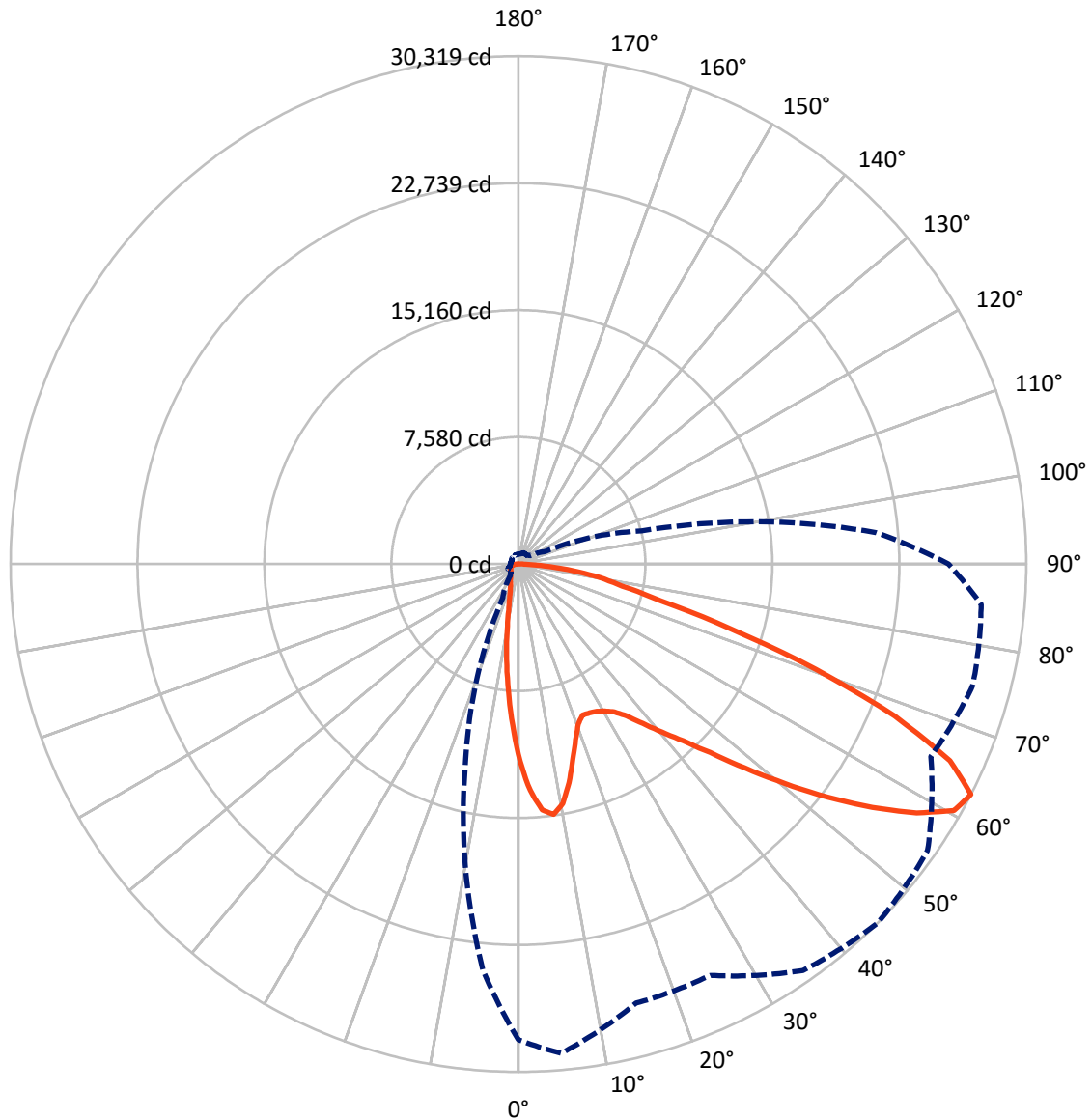
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.4 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	5775.0	0.0	5775.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29122.0	0.0	29122.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	34896.9	0.0	34896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.3	2.5
10°-20°	1573.8	4.5
20°-30°	2294.6	6.6
30°-40°	3534.1	10.1
40°-50°	5201.2	14.9
50°-60°	7629.1	21.9
60°-70°	8528.2	24.4
70°-80°	4175.3	12.0
80°-90°	1102.4	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°	34896.9	100.0
0°-180°	34896.9	100.0

Coefficient of Utilization



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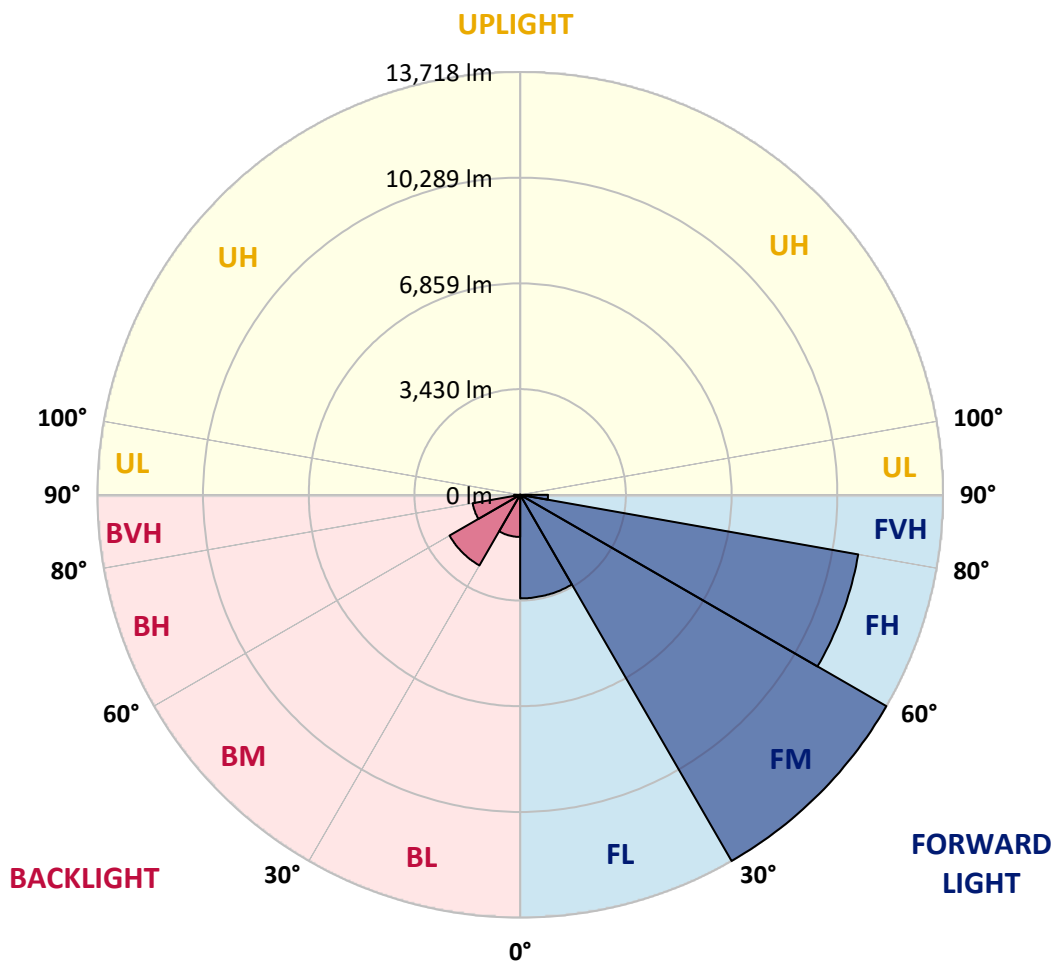
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3360.5	9.6			
FM	(30°-60°)	13718.3	39.3			
FH	(60°-80°)	11137.9	31.9			G4/12000
FVH	(80°-90°)	905.3	2.6			G5
BL	(0°-30°)	1366.3	3.9	B3/2500		
BM	(30°-60°)	2646.0	7.6	B3/5000		
BH	(60°-80°)	1565.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	197.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	12250.4	12446.1	12827.9	13113.7	13460.9	13541.5	13652.8	13543.5	13349.7	13092.6	13008.3
5°	11519.6	11937.7	12864.3	13679.6	14404.8	14742.4	14836.4	14558.2	13996.1	13257.5	12806.8
7.5°	10347.5	10942.2	12196.7	13397.6	14466.2	15097.3	15081.9	14435.5	13401.5	12198.7	11475.5
10°	9336.5	10015.6	11454.4	12797.2	13931.0	14542.9	14306.9	13480.1	12246.7	10861.6	10077.0
12.5°	8770.6	9436.3	10896.2	12244.7	13192.4	13403.4	13223.1	12413.5	11251.0	9850.6	9163.9
15°	8672.8	9403.7	10673.6	11770.9	12302.2	12118.1	11903.3	11540.7	10719.6	9524.5	8808.9
17.5°	9096.7	9902.5	10928.7	11440.9	11350.8	11030.4	10969.0	11009.3	10811.7	9887.1	9062.2
20°	9910.1	10876.9	11536.8	11285.5	10627.5	10186.3	10201.7	10817.5	11402.5	10805.9	9864.1
22.5°	11051.6	12154.6	12413.5	11368.1	10322.5	9798.8	9925.5	10923.0	12344.5	12148.8	10946.0
25°	12528.6	13533.8	13347.8	11667.3	10353.3	9846.8	9948.5	11287.4	13457.1	13491.6	12285.0
27.5°	13959.7	14892.0	14132.4	12064.4	10479.8	9960.0	10094.3	11861.0	14519.9	14949.6	13815.9
30°	15076.1	15724.6	14443.1	12426.9	10729.2	10180.6	10347.5	12405.8	15003.3	15933.7	14993.7
32.5°	16000.8	16467.0	14938.0	12875.9	11187.7	10527.8	10821.3	13067.7	15699.6	16869.8	16146.6
35°	17182.5	17314.9	15553.9	13376.5	11895.6	11132.1	11496.5	13716.0	16363.3	17815.5	17282.2
37.5°	18567.6	18396.8	16135.1	14061.4	12810.6	12077.8	12379.0	14427.8	16910.1	18887.9	18442.9
40°	19937.2	19526.7	16864.1	15124.1	14145.8	13192.4	13549.2	15187.4	17420.3	19962.2	19576.6
42.5°	21101.6	20493.5	17583.4	16292.4	15388.9	14422.0	14847.9	15952.8	17907.7	20879.1	20560.7
45°	21963.0	21207.2	18268.3	17414.6	17101.9	16056.4	16257.9	16829.5	18435.2	21644.5	21370.3
47.5°	22732.2	21924.6	19043.3	18546.4	18600.1	18181.9	17857.8	17850.1	19056.8	22269.9	22135.6
50°	23762.3	22920.2	19875.8	19712.8	20848.5	20570.3	19854.8	19041.4	19843.2	22979.7	22964.3
52.5°	25182.0	24497.1	20892.5	20969.3	22947.0	23129.3	22243.0	20472.4	21074.8	24282.3	24190.1
55°	26860.4	26461.5	22277.6	22413.8	25521.5	25651.9	24771.5	22262.3	22885.7	26168.0	25912.8
57.5°	28170.7	28086.3	23796.9	24148.0	27443.6	28030.7	27221.1	24334.1	24926.8	27756.3	27115.7
60°	28692.4	29101.1	25414.1	25897.4	29221.9	29872.3	29162.5	26154.5	26735.7	28414.3	27033.1
62.5°	28410.5	29323.6	27136.7	27096.4	29619.0	30319.2	29820.4	27167.4	28076.7	27735.3	25665.3
65°	27108.0	28523.7	28136.2	26787.6	28260.9	28318.4	28157.2	26714.7	28393.2	25588.6	23021.9
67.5°	24270.7	26308.0	26820.2	24140.3	24596.9	24222.8	23952.3	24236.2	26743.5	22371.6	19348.3
70°	19768.4	22833.9	23079.4	19308.0	19100.8	18849.5	18310.5	19870.1	23488.1	18335.4	15352.4
72.5°	14535.2	17758.0	18511.9	14161.1	13202.0	13253.8	12827.9	14974.5	19097.0	13620.2	11462.1
75°	9944.6	12858.6	14483.4	9881.3	8730.4	8751.4	8697.7	10610.3	15210.5	9474.7	8576.8
77.5°	7264.7	9186.9	10923.0	6643.1	6449.4	6330.5	6301.7	7424.0	11661.5	6879.1	6660.4
80°	5829.8	6787.1	7337.6	4604.0	4951.2	4941.7	4782.4	5104.7	7615.8	5031.8	4981.9
82.5°	4043.8	5215.9	5944.9	3608.4	3341.8	3286.1	3324.5	3802.1	5382.9	3439.6	3270.8
85°	2133.2	3464.5	5887.4	3197.8	1983.6	1582.6	1968.2	3113.5	4663.4	1822.4	1596.0
87.5°	272.4	1001.4	3898.1	1275.7	782.7	422.1	934.3	1753.3	2994.5	372.1	324.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	12791.4	12536.3	12202.5	11893.6	11573.3	11254.8	10838.6	10577.7	10397.4	10362.8	10286.1
5°	12480.7	11632.8	10992.0	10437.7	9935.0	9225.3	8832.0	8505.8	8331.3	8314.0	8271.9
7.5°	11047.7	9877.5	9012.3	8227.7	7516.0	6942.5	6309.4	6013.9	5893.1	5921.9	5950.7
10°	9557.1	8248.9	7255.2	6453.3	5826.0	5342.6	4834.2	4490.9	4252.9	4204.9	4195.4
12.5°	8467.5	7032.6	6067.6	5501.7	5016.4	4561.7	4022.8	3618.0	3309.1	3203.6	3132.7
15°	8007.1	6437.9	5427.0	4817.0	4281.8	3704.3	3203.6	2779.7	2495.8	2403.6	2351.9
17.5°	8104.9	6272.9	4985.8	4204.9	3520.2	2917.8	2286.6	1924.1	1753.3	1709.2	1709.2
20°	8619.1	6242.3	4621.3	3641.0	2787.3	2089.1	1571.2	1363.9	1308.3	1302.5	1317.9
22.5°	9340.4	6349.7	4348.9	3151.8	2165.8	1525.1	1223.9	1147.1	1122.2	1128.0	1145.2
25°	10414.7	6712.2	4151.2	2716.3	1699.6	1248.8	1091.5	1045.5	1034.0	1049.3	1070.4
27.5°	11688.4	7074.8	4028.5	2388.3	1434.9	1141.4	1037.8	989.9	997.6	1016.7	1035.9
30°	12806.8	7372.1	3834.7	2154.3	1352.4	1147.1	1037.8	972.6	964.9	968.7	974.5
32.5°	13810.0	7573.6	3608.4	1931.7	1166.4	1018.7	968.7	959.1	917.0	901.6	903.6
35°	14675.3	7573.6	3472.2	1801.3	1045.5	903.6	823.0	775.0	753.9	755.9	776.9
37.5°	15509.7	7422.0	3405.0	1728.4	980.3	859.4	788.4	746.2	717.5	711.7	715.6
40°	16246.4	7201.4	3328.3	1697.7	930.4	832.6	765.4	730.9	700.2	690.6	692.5
42.5°	16837.2	7023.0	3243.9	1657.5	899.7	813.3	750.0	719.3	684.9	675.2	673.3
45°	17476.0	6963.5	3132.7	1576.9	915.0	815.3	746.2	713.6	679.1	667.6	663.8
47.5°	18318.2	7149.6	3017.5	1480.9	947.7	824.9	752.0	713.6	677.2	667.6	663.8
50°	19379.0	7587.0	2871.7	1340.9	915.0	851.7	750.0	707.9	677.2	667.6	659.9
52.5°	20741.0	8177.9	2679.9	1179.8	895.9	917.0	746.2	696.3	667.6	654.2	640.7
55°	22396.5	8661.2	2451.6	1047.4	851.7	899.7	740.5	682.9	652.2	633.0	621.5
57.5°	23608.9	8835.8	2158.1	961.1	790.3	870.9	732.8	665.6	633.0	617.7	602.3
60°	23369.1	8498.2	1910.7	907.4	753.9	786.5	727.0	650.3	615.8	604.3	590.9
62.5°	21448.8	7615.8	1751.4	882.4	730.9	717.5	732.8	634.9	600.5	588.9	585.1
65°	18569.4	6313.2	1688.2	876.7	711.7	677.2	681.0	617.7	583.2	573.6	569.8
67.5°	15317.9	5095.1	1632.5	895.9	686.8	648.3	629.2	594.6	565.9	556.3	548.6
70°	12079.7	4237.6	1607.6	884.3	656.0	619.6	598.5	569.8	544.8	535.2	529.5
72.5°	9727.9	3579.6	1594.2	872.9	615.8	581.2	562.1	537.2	510.2	506.5	500.7
75°	8231.6	2814.2	1459.9	836.4	569.8	535.2	521.8	498.8	471.9	471.9	468.1
77.5°	6349.7	2035.4	1214.3	740.5	521.8	483.4	471.9	454.6	423.9	429.7	427.8
80°	4690.3	1327.5	949.6	613.9	462.3	425.9	420.1	402.8	370.2	377.9	377.9
82.5°	3213.2	870.9	682.9	502.6	395.2	360.7	360.7	343.4	306.9	310.8	322.2
85°	1613.3	598.5	510.2	389.4	306.9	289.7	289.7	276.2	239.8	241.7	257.1
87.5°	491.1	360.7	337.7	278.1	220.7	216.8	207.1	197.6	174.6	172.7	182.3
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°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	10169.1	10059.7	9927.3	9635.8	9538.0	9532.2	9620.4	9528.4	9704.8	9630.1	9712.5
5°	8200.9	8093.5	7945.8	7573.6	7347.2	7193.7	7120.9	6906.0	7061.4	6948.2	7042.2
7.5°	6031.2	6056.2	5958.4	5739.7	5246.6	4999.2	4853.4	4723.0	4836.1	4824.6	5004.9
10°	4239.5	4306.6	4237.6	4017.0	3618.0	3481.8	3508.6	3560.4	3708.1	3784.9	4063.1
12.5°	3052.1	3048.2	3004.1	2806.6	2543.7	2559.0	2668.4	2758.6	2894.7	2975.4	3259.2
15°	2278.9	2244.5	2225.2	2064.1	1914.5	1947.1	2000.8	2010.4	2096.7	2144.7	2374.9
17.5°	1722.6	1739.9	1761.0	1645.9	1532.8	1511.6	1469.5	1417.6	1442.6	1452.2	1567.3
20°	1367.8	1436.8	1488.6	1408.1	1292.9	1231.5	1177.8	1143.4	1143.4	1141.4	1174.0
22.5°	1195.1	1245.0	1300.6	1245.0	1141.4	1087.7	1057.0	1030.1	1026.3	1026.3	1057.0
25°	1101.1	1137.5	1191.3	1153.0	1076.1	1035.9	1007.1	972.6	959.1	955.3	976.4
27.5°	1055.1	1070.4	1097.3	1062.7	997.6	978.4	970.7	940.0	922.7	913.1	934.3
30°	976.4	972.6	974.5	940.0	888.2	886.3	899.7	905.4	899.7	897.7	930.4
32.5°	903.6	895.9	894.0	863.3	815.3	803.7	815.3	826.9	840.3	859.4	897.7
35°	811.4	830.6	842.2	815.3	757.7	723.2	709.8	688.7	677.2	677.2	721.3
37.5°	738.6	782.7	799.9	775.0	711.7	663.8	640.7	636.9	638.8	646.5	688.7
40°	713.6	746.2	761.6	736.6	673.3	629.2	615.8	611.9	615.8	627.3	669.5
42.5°	698.3	721.3	719.3	688.7	636.9	606.2	598.5	594.6	598.5	610.0	656.0
45°	684.9	700.2	684.9	648.3	600.5	585.1	587.0	585.1	588.9	600.5	644.6
47.5°	673.3	679.1	659.9	623.5	573.6	569.8	577.5	583.2	587.0	596.6	642.6
50°	656.0	656.0	638.8	600.5	550.6	552.5	562.1	575.5	577.5	588.9	625.3
52.5°	634.9	633.0	621.5	585.1	531.4	537.2	537.2	552.5	556.3	569.8	608.1
55°	617.7	613.9	608.1	573.6	514.1	523.8	517.9	523.8	533.3	546.8	588.9
57.5°	602.3	594.6	594.6	564.0	500.7	504.5	491.1	498.8	510.2	521.8	565.9
60°	587.0	579.3	583.2	550.6	479.6	475.8	469.9	485.3	489.2	502.6	546.8
62.5°	569.8	564.0	565.9	535.2	464.2	454.6	454.6	468.1	469.9	489.2	531.4
65°	556.3	548.6	546.8	519.9	446.9	435.5	441.2	446.9	450.8	469.9	510.2
67.5°	542.9	527.5	527.5	506.5	427.8	416.2	427.8	425.9	431.6	448.9	481.5
70°	525.6	504.5	506.5	496.8	408.6	395.2	404.8	402.8	406.7	418.2	450.8
72.5°	498.8	481.5	485.3	481.5	389.4	370.2	374.1	374.1	374.1	383.7	418.2
75°	464.2	450.8	462.3	471.9	366.4	339.5	343.4	343.4	337.7	343.4	385.6
77.5°	422.1	414.4	452.8	439.3	339.5	306.9	306.9	303.1	291.5	299.2	345.3
80°	376.0	370.2	418.2	368.4	308.8	266.7	262.8	253.2	241.7	247.5	293.5
82.5°	328.1	322.2	351.1	282.0	266.7	220.7	211.0	193.7	182.3	188.0	230.2
85°	268.5	268.5	270.5	213.0	203.4	168.8	157.3	134.3	120.8	124.7	165.0
87.5°	191.8	197.6	182.3	145.8	120.8	94.0	86.3	72.9	61.4	71.0	86.3
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: P191278

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	10134.6	10345.6	10585.4	10892.3	11155.1	11586.8	12001.1	12250.4
5°	7577.4	7928.5	8365.8	8927.9	9451.7	10238.1	11018.9	11519.6
7.5°	5423.2	5799.1	6271.0	6973.1	7713.7	8716.9	9748.9	10347.5
10°	4487.0	4872.5	5269.6	5743.5	6349.7	7441.3	8661.2	9336.5
12.5°	3712.0	4124.4	4552.2	5050.9	5613.0	6587.6	7993.6	8770.6
15°	2841.0	3301.5	3806.0	4437.2	5141.1	6267.2	7828.7	8672.8
17.5°	1947.1	2461.2	3080.8	3859.7	4721.0	6163.6	8124.2	9096.7
20°	1340.9	1715.0	2376.8	3289.9	4325.9	6150.2	8691.9	9910.1
22.5°	1122.2	1289.1	1772.6	2766.3	4028.5	6315.2	9572.5	11051.6
25°	1037.8	1137.5	1415.8	2311.6	3811.7	6695.0	10784.9	12528.6
27.5°	988.0	1078.1	1285.2	2014.3	3641.0	7136.2	11964.6	13959.7
30°	1007.1	1099.2	1248.8	1862.7	3408.9	7504.5	13012.0	15076.1
32.5°	907.4	947.7	1070.4	1728.4	3241.9	7813.4	13929.0	16000.8
35°	773.0	844.0	955.3	1665.2	3245.8	8020.5	14928.4	17182.5
37.5°	736.6	807.6	888.2	1642.1	3289.9	8241.2	16075.6	18567.6
40°	713.6	778.9	847.9	1628.6	3332.2	8442.6	17199.8	19937.2
42.5°	698.3	757.7	844.0	1582.6	3353.2	8622.9	18124.4	21101.6
45°	696.3	757.7	859.4	1536.6	3385.9	8816.6	18899.4	21963.0
47.5°	698.3	782.7	830.6	1480.9	3385.9	9140.9	19808.7	22732.2
50°	690.6	824.9	799.9	1402.3	3307.2	9754.8	21055.6	23762.3
52.5°	686.8	819.1	740.5	1281.5	3171.0	10729.2	22653.6	25182.0
55°	677.2	790.3	698.3	1101.1	3011.8	11792.0	24364.7	26860.4
57.5°	667.6	700.2	675.2	943.8	2766.3	12540.1	25542.6	28170.7
60°	748.2	611.9	656.0	867.1	2438.2	12745.4	25496.5	28692.4
62.5°	692.5	573.6	631.2	849.9	2208.0	12169.9	24318.7	28410.5
65°	542.9	548.6	606.2	899.7	2146.7	10644.8	22231.6	27108.0
67.5°	496.8	523.8	581.2	963.0	2152.4	8523.1	19112.3	24270.7
70°	468.1	496.8	552.5	995.6	2167.7	6353.5	15110.7	19768.4
72.5°	435.5	460.4	519.9	1001.4	2068.0	4615.6	11646.2	14535.2
75°	397.1	420.1	473.8	872.9	1713.0	3201.7	8908.8	9944.6
77.5°	353.0	370.2	416.2	673.3	1271.8	2048.8	6687.3	7264.7
80°	301.2	310.8	349.1	493.1	870.9	1281.5	5290.8	5829.8
82.5°	241.7	245.5	270.5	370.2	565.9	823.0	3543.2	4043.8
85°	170.7	170.7	186.1	268.5	385.6	521.8	1924.1	2133.2
87.5°	80.6	82.4	82.4	147.7	201.4	264.7	443.1	272.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)