

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: P191343

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191343
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-SLR-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29339.3 lumens
Efficiency: N/A
Efficacy: 91.7 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

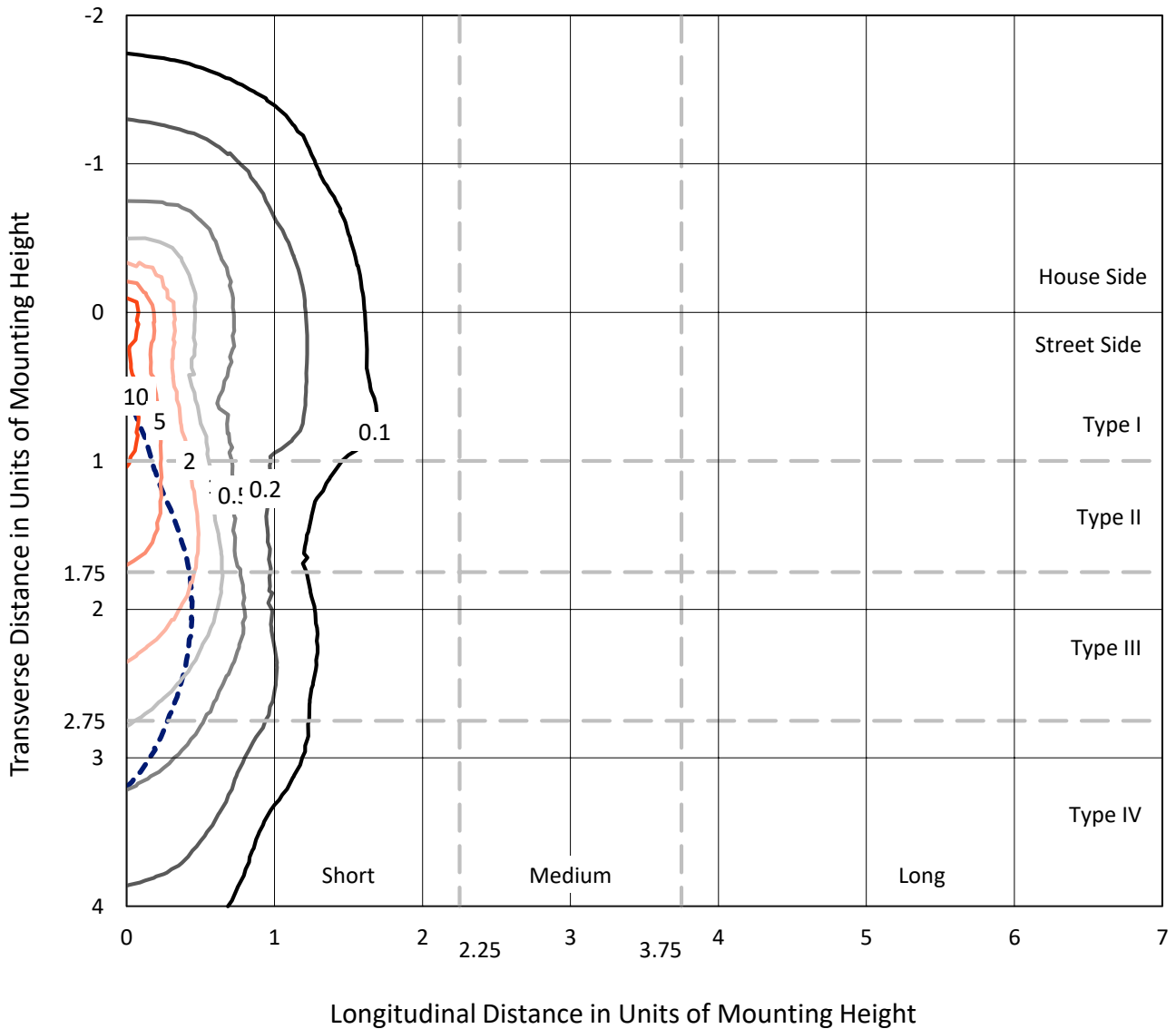
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

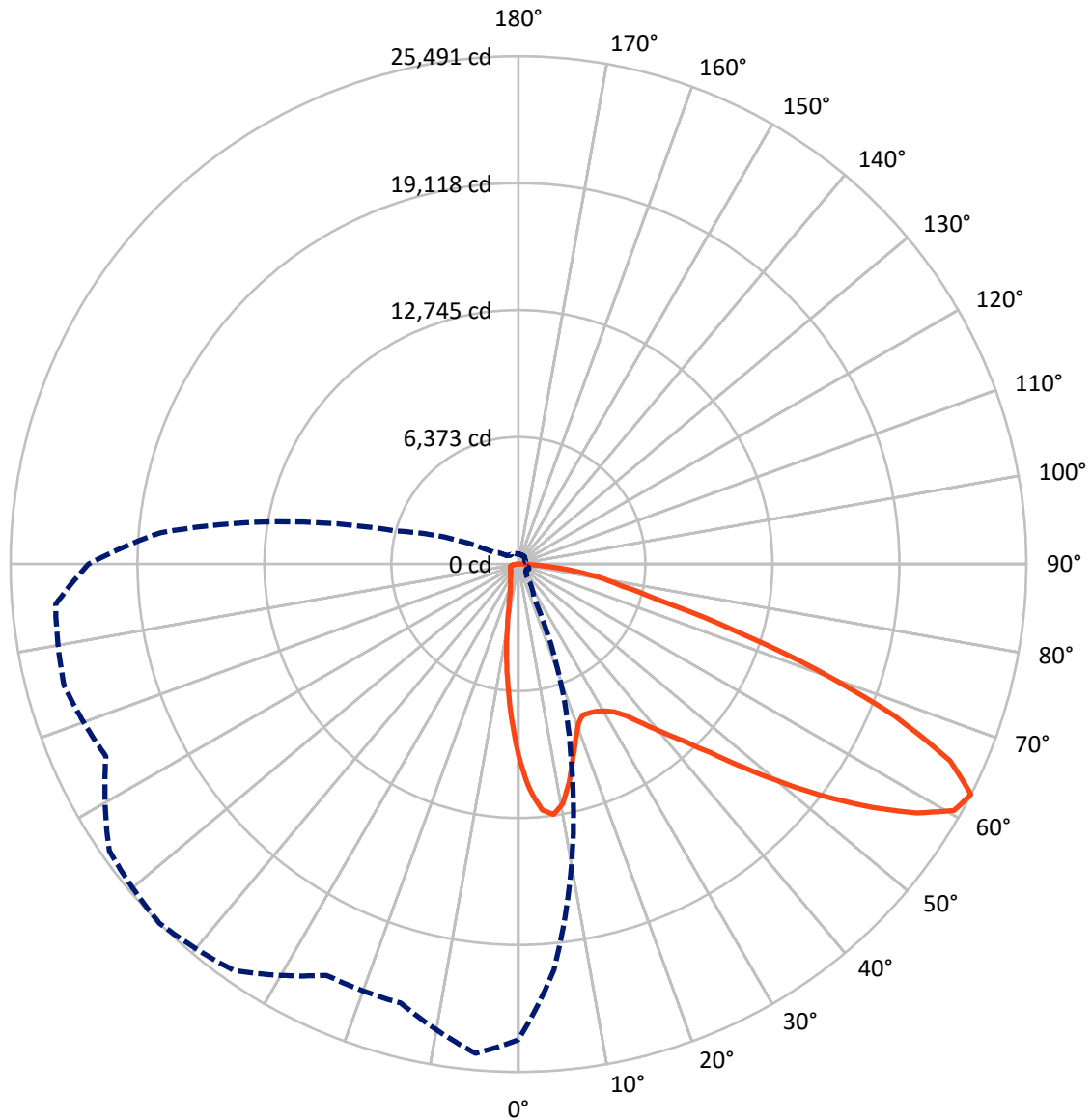
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4855.3	0.0	4855.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24484.0	0.0	24484.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	29339.3	0.0	29339.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.6	2.5
10°-20°	1323.2	4.5
20°-30°	1929.2	6.6
30°-40°	2971.2	10.1
40°-50°	4372.9	14.9
50°-60°	6414.1	21.9
60°-70°	7170.0	24.4
70°-80°	3510.3	12.0
80°-90°	926.8	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°	29339.3	100.0
0°-180°	29339.3	100.0



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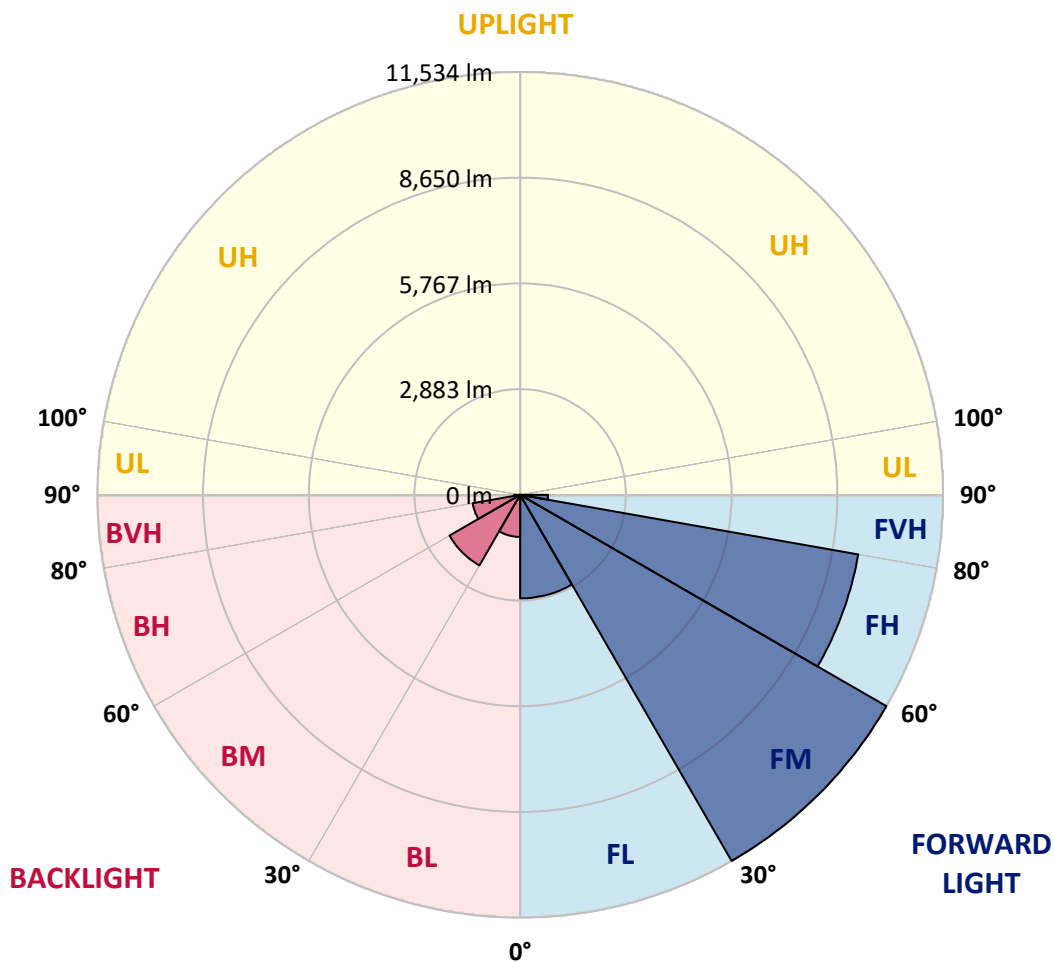
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.3	9.6			
FM	(30°-60°)	11533.5	39.3			
FH	(60°-80°)	9364.1	31.9			G4/12000
FVH	(80°-90°)	761.1	2.6			G5
BL	(0°-30°)	1148.7	3.9	B3/2500		
BM	(30°-60°)	2224.6	7.6	B2/2500		
BH	(60°-80°)	1316.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	165.7	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°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	10299.5	10089.8	9741.5	9378.5	9157.6	8899.6	8697.9	8520.6	8165.7	8096.3	8159.3
5°	9685.0	9264.0	8607.6	7946.4	7506.1	7033.5	6665.8	6370.6	5920.6	5841.7	5936.8
7.5°	8699.6	8196.3	7328.6	6485.1	5862.6	5272.3	4875.6	4559.4	4207.8	4056.2	4065.9
10°	7849.6	7281.9	6256.2	5338.5	4828.7	4430.4	4096.5	3772.3	3415.9	3182.1	3117.5
12.5°	7373.8	6720.6	5538.5	4719.1	4246.6	3827.3	3467.6	3120.8	2740.2	2501.5	2433.7
15°	7291.6	6581.9	5269.1	4322.4	3730.5	3199.8	2775.7	2388.6	1996.7	1803.2	1762.9
17.5°	7648.0	6830.2	5182.0	3969.2	3245.0	2590.2	2069.2	1637.0	1317.7	1220.9	1212.8
20°	8331.8	7307.7	5170.7	3636.9	2766.0	1998.2	1441.8	1127.4	987.0	959.6	961.3
22.5°	9291.5	8048.0	5309.4	3386.9	2325.7	1490.2	1083.8	943.5	888.6	862.9	862.9
25°	10533.3	9067.2	5628.7	3204.7	1943.4	1190.3	956.4	872.6	820.9	803.2	806.4
27.5°	11736.5	10059.2	5999.7	3061.1	1693.5	1080.5	906.4	830.6	785.4	767.7	775.8
30°	12675.2	10939.7	6309.4	2866.0	1566.0	1050.0	924.1	846.7	782.3	754.8	756.4
32.5°	13452.5	11710.6	6569.0	2725.7	1453.1	900.0	796.8	762.8	754.8	722.5	706.4
35°	14446.0	12551.0	6743.2	2728.9	1399.9	803.2	709.6	650.0	606.4	569.4	569.4
37.5°	15610.4	13515.4	6928.7	2766.0	1380.6	746.8	679.0	619.3	579.0	543.5	537.0
40°	16762.0	14460.5	7098.1	2801.5	1369.3	712.9	654.8	600.0	562.8	527.4	517.7
42.5°	17741.0	15237.9	7249.7	2819.3	1330.6	709.6	637.1	587.1	551.6	512.9	503.2
45°	18465.2	15889.5	7412.5	2846.7	1291.9	722.5	637.1	585.4	541.9	504.8	495.1
47.5°	19111.9	16653.9	7685.1	2846.7	1245.1	698.4	658.1	587.1	540.3	501.6	493.5
50°	19978.0	17702.3	8201.2	2780.5	1179.0	672.6	693.6	580.6	525.8	495.1	485.5
52.5°	21171.5	19045.8	9020.5	2666.0	1077.4	622.6	688.7	577.4	511.3	479.0	467.7
55°	22582.7	20484.4	9914.0	2532.1	925.8	587.1	664.5	569.4	495.1	459.6	448.4
57.5°	23684.3	21474.7	10543.0	2325.7	793.5	567.7	588.7	561.3	475.8	438.6	429.0
60°	24122.9	21435.9	10715.6	2049.9	729.0	551.6	514.4	629.0	459.6	422.6	411.2
62.5°	23885.8	20445.7	10231.8	1856.3	714.4	530.6	482.2	582.3	446.7	411.2	395.2
65°	22790.7	18690.9	8949.5	1804.8	756.4	509.6	461.2	456.4	429.0	395.2	379.0
67.5°	20405.4	16068.5	7165.8	1809.6	809.7	488.7	440.3	417.7	404.8	377.4	362.8
70°	16620.1	12704.1	5341.6	1822.5	837.1	464.5	417.7	393.5	379.0	351.6	341.9
72.5°	12220.3	9791.4	3880.5	1738.6	841.9	437.1	387.1	366.1	351.6	322.5	314.5
75°	8360.9	7489.9	2691.8	1440.2	733.9	398.3	353.2	333.9	324.2	288.7	283.9
77.5°	6107.7	5622.2	1722.4	1069.3	566.1	350.0	311.3	296.8	290.3	251.6	245.1
80°	4901.4	4448.2	1077.4	732.2	414.5	293.5	261.3	253.2	246.7	208.1	203.3
82.5°	3399.8	2978.8	691.9	475.8	311.3	227.4	206.4	203.3	193.5	158.0	153.2
85°	1793.4	1617.7	438.6	324.2	225.8	156.4	143.5	143.5	138.7	104.9	101.6
87.5°	229.0	372.6	222.6	169.3	124.2	69.4	69.4	67.7	72.5	59.6	51.7
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°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	8010.8	8088.3	8014.1	8018.9	8101.2	8346.4	8457.7	8549.5	8647.9	8712.5	8741.5
5°	5806.2	5986.8	6048.1	6177.1	6367.4	6680.3	6804.5	6894.8	6954.4	6989.9	7004.5
7.5°	3970.8	4080.4	4203.0	4411.1	4825.6	5009.4	5091.6	5070.7	5002.9	4978.8	4954.6
10°	2993.4	2949.9	2927.3	3041.7	3377.3	3562.7	3620.7	3564.4	3527.2	3535.3	3575.6
12.5°	2319.2	2243.4	2151.5	2138.6	2359.5	2525.7	2562.8	2566.0	2633.7	2693.4	2782.1
15°	1690.2	1682.1	1637.0	1609.6	1735.4	1870.9	1887.0	1916.0	1977.4	2020.8	2098.3
17.5°	1191.8	1235.4	1270.9	1288.6	1383.8	1480.5	1462.8	1448.3	1437.0	1437.0	1474.1
20°	961.3	990.3	1035.4	1087.1	1183.8	1251.6	1208.0	1149.9	1108.0	1095.1	1100.0
22.5°	866.1	888.6	914.5	959.6	1046.7	1093.5	1046.7	1004.7	962.8	948.4	943.5
25°	817.7	846.7	870.9	904.8	969.3	1001.6	956.4	925.8	900.0	882.2	869.3
27.5°	790.3	816.1	822.6	838.6	893.5	922.5	900.0	887.0	870.9	854.8	838.6
30°	761.3	756.4	745.1	746.8	790.3	819.3	817.7	820.9	819.3	814.5	811.2
32.5°	695.1	685.5	675.8	685.5	725.8	751.6	753.2	759.6	759.6	758.0	770.9
35°	579.0	596.8	608.0	637.1	685.5	708.0	698.4	682.2	653.2	635.5	633.8
37.5°	535.4	538.7	558.0	598.3	651.6	672.6	658.1	620.9	601.6	598.3	603.2
40°	514.4	517.7	529.0	566.1	619.3	640.3	627.4	600.0	582.3	580.6	588.7
42.5°	500.0	503.2	509.6	535.4	579.0	604.8	606.4	587.1	566.1	567.7	575.8
45°	491.9	493.5	491.9	504.8	545.1	575.8	588.7	575.8	558.0	561.3	570.9
47.5°	490.3	485.5	479.0	482.2	524.2	554.8	570.9	566.1	558.0	561.3	569.4
50°	483.9	472.6	464.5	462.9	504.8	537.0	551.6	551.6	554.8	561.3	569.4
52.5°	464.5	451.6	451.6	446.7	491.9	522.5	532.2	533.9	538.7	549.9	561.3
55°	440.3	435.5	440.3	432.2	482.2	511.3	516.1	519.4	522.5	532.2	548.4
57.5°	419.3	412.9	424.2	420.9	474.1	500.0	500.0	506.5	506.5	519.4	532.2
60°	408.1	395.2	400.0	403.2	462.9	490.3	487.0	493.5	496.7	508.0	517.7
62.5°	393.5	382.3	382.3	390.3	450.0	475.8	474.1	479.0	491.9	495.1	504.8
65°	375.8	370.9	366.1	375.8	437.1	459.6	461.2	467.7	479.0	482.2	490.3
67.5°	358.0	359.7	350.0	359.7	425.8	443.6	443.6	456.4	461.2	467.7	475.8
70°	338.7	340.3	332.3	343.5	417.7	425.8	424.2	441.9	445.2	450.0	458.1
72.5°	314.5	314.5	311.3	327.4	404.8	408.1	404.8	419.3	420.9	425.8	429.0
75°	288.7	288.7	285.5	308.0	396.8	388.7	379.0	390.3	393.5	396.8	396.8
77.5°	254.8	258.1	258.1	285.5	369.3	380.6	348.4	354.9	359.7	361.3	356.4
80°	212.9	221.0	224.2	259.6	309.6	351.6	311.3	316.1	317.7	317.7	311.3
82.5°	162.9	177.4	185.5	224.2	237.1	295.1	271.0	275.8	271.0	261.3	258.1
85°	112.9	132.3	141.9	170.9	179.0	227.4	225.8	225.8	216.1	203.3	201.6
87.5°	61.3	72.5	79.1	101.6	122.5	153.2	166.1	161.3	153.2	145.2	146.8
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°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	8893.1	9112.4	9462.4	9730.1	9999.4	10259.2	10539.8	10754.3	10936.5	11007.5	11223.6
5°	7151.2	7425.4	7756.0	8352.8	8775.4	9241.4	9780.1	10493.0	10767.2	11146.2	11767.1
7.5°	5056.1	5304.5	5836.8	6319.0	6917.4	7577.0	8304.4	9288.2	9647.9	10255.9	11267.2
10°	3775.6	4064.3	4491.7	4898.1	5425.5	6099.7	6935.1	8035.1	8472.2	9131.8	10296.2
12.5°	3041.7	3382.1	3835.2	4217.5	4625.6	5101.4	5912.6	7119.0	7704.5	8281.8	9459.2
15°	2336.9	2693.4	3114.4	3599.8	4049.8	4562.7	5412.6	6731.9	7406.1	8007.7	9012.4
17.5°	1617.7	1922.4	2453.1	2959.5	3535.3	4191.7	5273.9	6814.2	7618.9	8312.5	9089.8
20°	1146.7	1320.9	1756.4	2343.4	3061.1	3885.3	5248.1	7246.4	8293.1	9085.0	9586.6
22.5°	964.4	1029.0	1282.2	1820.9	2649.9	3656.2	5338.5	7852.8	9202.8	10214.0	10378.4
25°	879.0	917.7	1050.0	1429.0	2283.7	3490.1	5643.2	8755.9	10328.5	11343.0	11313.9
27.5°	832.2	872.6	959.6	1206.4	2008.0	3386.9	5948.0	9826.9	11615.5	12568.7	12207.4
30°	817.7	872.6	964.4	1137.0	1811.2	3224.0	6198.1	10767.2	12605.8	13396.1	12613.8
32.5°	806.4	814.5	856.4	980.6	1624.1	3033.7	6367.4	11610.7	13575.1	14183.1	13199.3
35°	651.6	691.9	759.6	879.0	1514.5	2919.2	6367.4	12338.0	14529.9	14978.3	13757.4
37.5°	627.4	662.9	722.5	824.2	1453.1	2862.7	6240.0	13039.7	15505.7	15879.8	14217.0
40°	614.5	643.5	700.0	782.3	1427.3	2798.3	6054.5	13659.0	16458.8	16782.9	14646.0
42.5°	604.8	630.6	683.8	756.4	1393.5	2727.3	5904.6	14155.7	17286.2	17553.9	15055.7
45°	600.0	627.4	685.5	769.4	1325.7	2633.7	5854.6	14692.7	17966.8	18197.5	15499.1
47.5°	600.0	632.2	693.6	796.8	1245.1	2536.9	6011.0	15400.8	18610.3	18723.2	16021.8
50°	595.2	630.6	716.1	769.4	1127.4	2414.4	6378.7	16292.6	19307.1	19320.0	16683.0
52.5°	585.4	627.4	770.9	753.2	991.9	2253.2	6875.5	17437.8	20337.6	20415.0	17718.4
55°	574.2	622.6	756.4	716.1	880.6	2061.1	7281.9	18829.7	21786.0	22000.5	19240.9
57.5°	559.7	616.1	732.2	664.5	808.0	1814.4	7428.7	19848.9	22797.2	23335.9	20957.0
60°	546.8	611.2	661.2	633.8	762.8	1606.3	7144.8	19647.3	22727.8	23889.1	22477.8
62.5°	533.9	616.1	603.2	614.5	741.9	1472.5	6402.9	18032.9	21577.9	23318.2	23605.2
65°	519.4	572.5	569.4	598.3	737.0	1419.2	5307.8	15612.1	19355.5	21513.4	23871.3
67.5°	500.0	529.0	545.1	577.4	753.2	1372.5	4283.6	12878.3	16266.9	18808.7	22484.3
70°	479.0	503.2	521.0	551.6	743.5	1351.5	3562.7	10156.0	12907.4	15415.4	19747.3
72.5°	451.6	472.6	488.7	517.7	733.9	1340.3	3009.5	8178.6	9636.6	11451.0	16055.6
75°	419.3	438.6	450.0	479.0	703.2	1227.3	2366.0	6920.6	7210.9	7965.7	12788.0
77.5°	382.3	396.8	406.4	438.6	622.6	1020.9	1711.2	5338.5	5599.7	5783.6	9804.4
80°	338.7	353.2	358.0	388.7	516.1	798.3	1116.0	3943.4	4188.5	4230.4	6402.9
82.5°	288.7	303.2	303.2	332.3	422.6	574.2	732.2	2701.5	2749.9	2891.8	4525.5
85°	232.2	243.6	243.6	258.1	327.4	429.0	503.2	1356.3	1341.9	1532.2	3920.8
87.5°	166.1	174.2	182.3	185.5	233.8	283.9	303.2	412.9	272.6	312.9	2517.6
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: P191343

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	11386.5	11478.4	11384.9	11317.1	11025.3	10784.9	10464.0	10299.5
5°	12239.7	12473.6	12394.5	12110.6	11501.0	10815.6	10036.6	9685.0
7.5°	12136.5	12680.0	12692.9	12162.3	11263.9	10254.3	9199.5	8699.6
10°	11333.3	12028.4	12226.8	11712.3	10759.1	9630.2	8420.5	7849.6
12.5°	10436.6	11117.1	11268.7	11091.3	10294.6	9160.8	7933.5	7373.8
15°	9702.7	10007.5	10188.2	10343.0	9896.2	8973.7	7906.1	7291.6
17.5°	9256.0	9222.1	9273.7	9543.0	9618.8	9188.2	8325.4	7648.0
20°	9094.6	8576.9	8564.0	8935.0	9488.2	9699.5	9144.7	8331.8
22.5°	9183.3	8344.7	8238.2	8678.6	9557.5	10436.6	10218.8	9291.5
25°	9489.8	8364.1	8278.6	8704.4	9809.2	11222.0	11378.4	10533.3
27.5°	9972.0	8486.6	8373.8	8810.8	10143.0	11881.7	12520.3	11736.5
30°	10430.1	8699.6	8559.2	9020.5	10447.8	12142.9	13220.3	12675.2
32.5°	10986.5	9097.9	8851.2	9405.9	10825.3	12559.0	13844.4	13452.5
35°	11531.6	9665.7	9359.2	10001.1	11246.2	13076.7	14557.3	14446.0
37.5°	12130.0	10407.5	10154.3	10770.4	11821.9	13565.5	15466.9	15610.4
40°	12768.7	11391.4	11091.3	11892.9	12715.5	14178.3	16416.8	16762.0
42.5°	13412.2	12483.2	12125.1	12938.1	13697.6	14783.1	17229.8	17741.0
45°	14149.3	13668.7	13499.3	14378.3	14641.2	15358.9	17829.7	18465.2
47.5°	15007.3	15013.7	15286.3	15637.8	15592.7	16010.4	18432.9	19111.9
50°	16008.9	16692.7	17294.2	17528.1	16573.3	16710.4	19269.9	19978.0
52.5°	17212.0	18700.7	19445.8	19292.5	17629.7	17565.2	20595.7	21171.5
55°	18716.7	20826.4	21566.6	21456.9	18844.2	18729.6	22247.2	22582.7
57.5°	20458.6	22885.9	23566.5	23073.0	20302.2	20007.0	23613.3	23684.3
60°	21989.1	24518.1	25114.8	24568.1	21773.0	21366.6	24466.4	24122.9
62.5°	22840.8	25071.3	25490.6	24901.9	22781.0	22815.0	24653.5	23885.8
65°	22460.1	23672.9	23808.5	23760.1	22521.4	23655.2	23981.0	22790.7
67.5°	20376.4	20137.6	20365.0	20679.6	20295.8	22548.8	22118.1	20405.4
70°	16705.6	15394.4	15847.6	16058.8	16233.0	19403.8	19197.4	16620.1
72.5°	12589.7	10784.9	11143.0	11099.4	11905.8	15563.7	14929.9	12220.3
75°	8920.5	7312.6	7357.7	7340.0	8307.6	12176.8	10810.7	8360.9
77.5°	6241.6	5298.1	5322.3	5422.3	5585.2	9183.3	7723.8	6107.7
80°	4291.7	4020.7	4154.6	4162.7	3870.7	6169.0	5706.1	4901.4
82.5°	3196.6	2795.0	2762.8	2809.5	3033.7	4998.1	4385.3	3399.8
85°	2617.6	1654.7	1330.6	1667.6	2688.5	4949.8	2912.8	1793.4
87.5°	1474.1	785.4	354.9	658.1	1072.6	3277.2	841.9	229.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)