

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: P269329

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269329
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-SLL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 22715.4 lumens
Efficiency: N/A
Efficacy: 81.4 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 - G4

Input Watts (W): 279
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

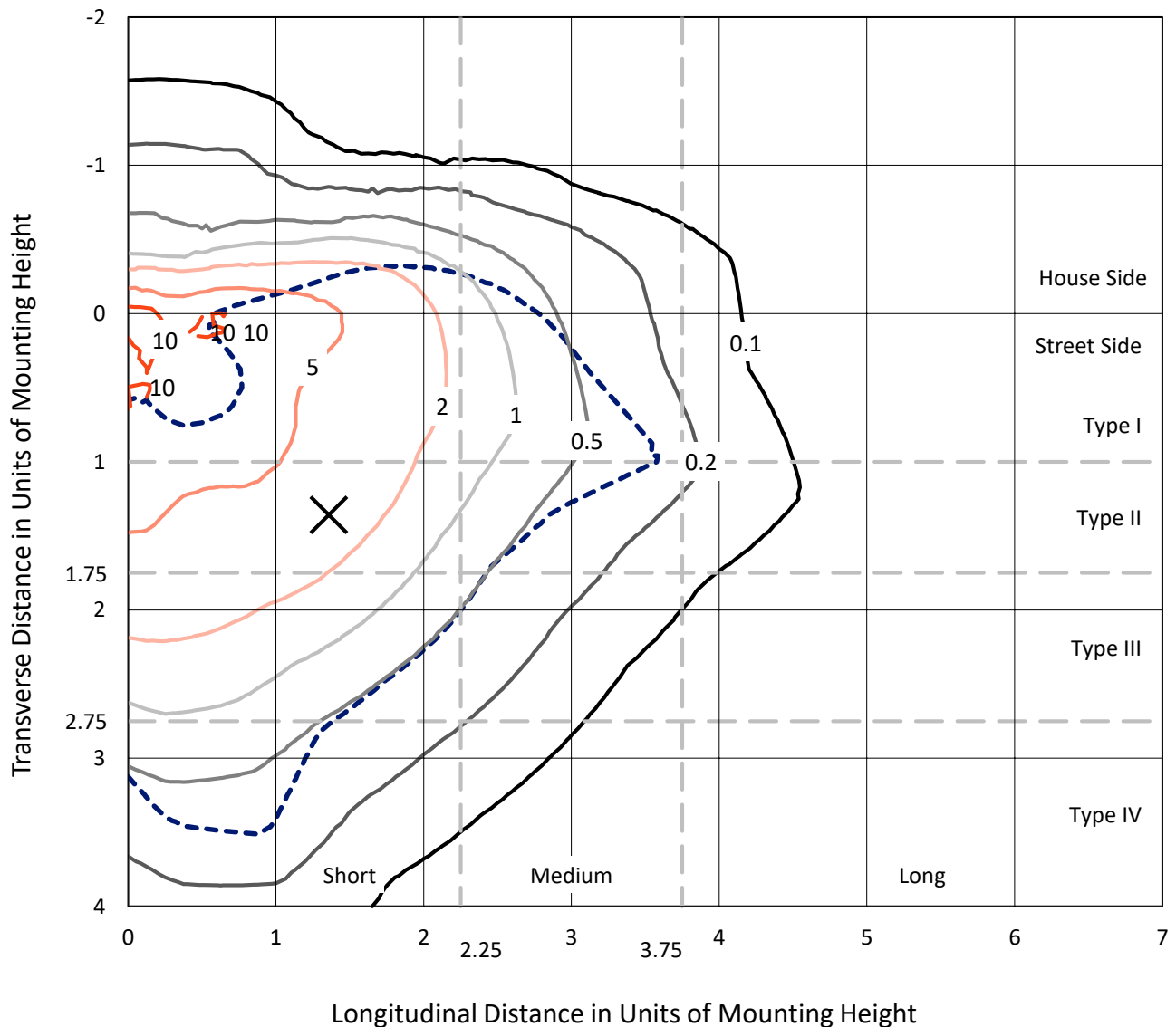


REPORT NUMBER: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

Iso-Footcandle Lines of Horizontal Illumination

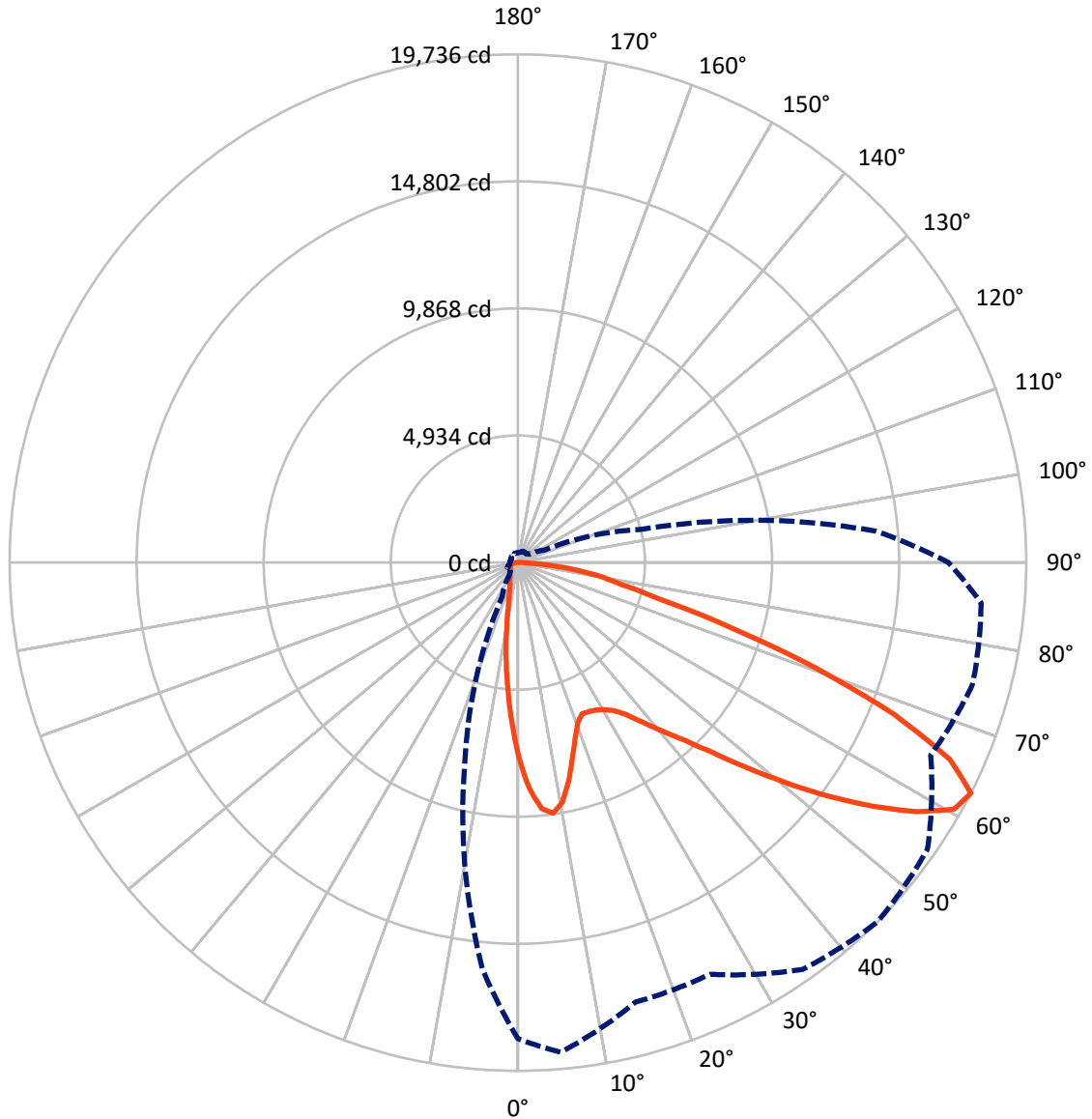
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269329
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3759.1	0.0	3759.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18956.3	0.0	18956.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	22715.4	0.0	22715.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.7	2.5
10°-20°	1024.4	4.5
20°-30°	1493.6	6.6
30°-40°	2300.4	10.1
40°-50°	3385.6	14.9
50°-60°	4966.0	21.9
60°-70°	5551.2	24.4
70°-80°	2717.8	12.0
80°-90°	717.6	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°	22715.4	100.0
0°-180°	22715.4	100.0



REPORT NUMBER: P269329

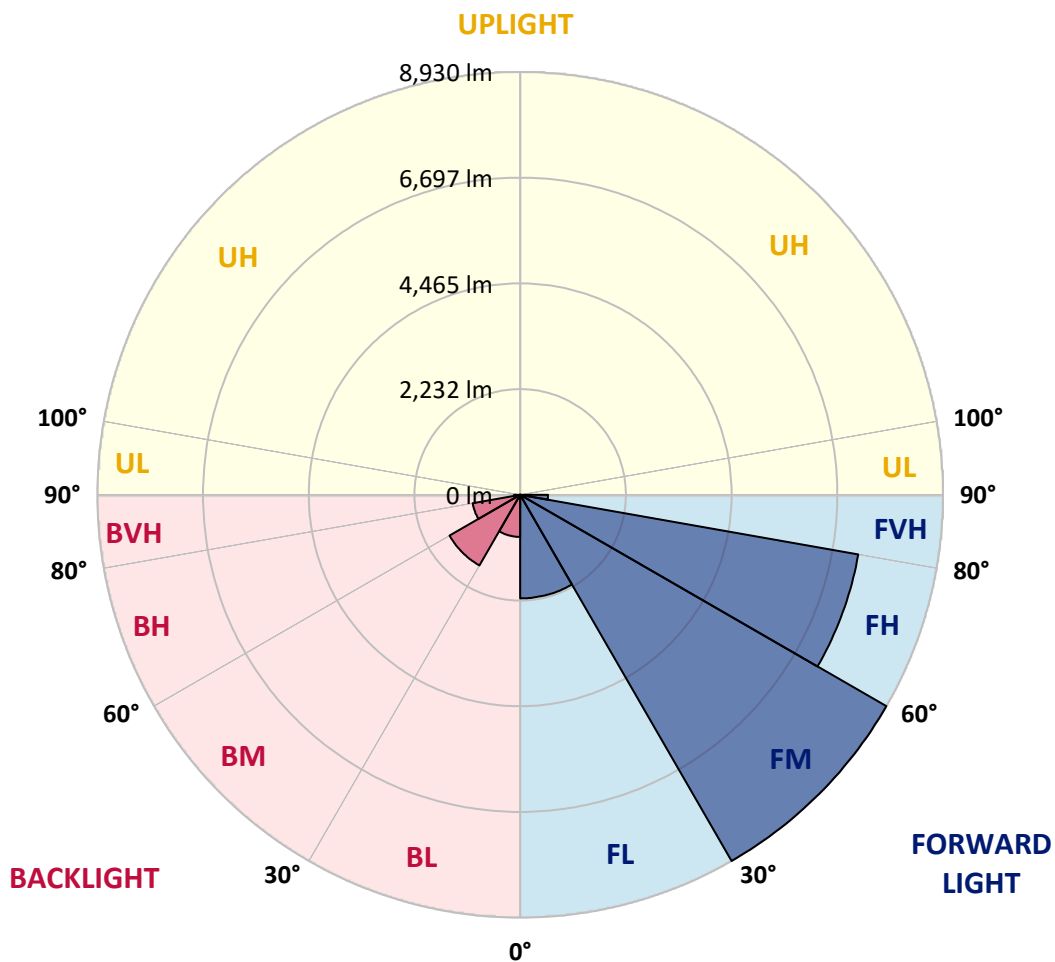
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.4	9.6			
FM (30°-60°)	8929.6	39.3			
FH (60°-80°)	7250.0	31.9			G3/7500
FVH (80°-90°)	589.3	2.6			G4/750
BL (0°-30°)	889.3	3.9	B2/1000		
BM (30°-60°)	1722.4	7.6	B2/2500		
BH (60°-80°)	1019.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	128.3	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-G4

Type IV Short





REPORT NUMBER: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	7974.2	8101.5	8350.0	8536.1	8762.1	8814.6	8887.0	8815.7	8689.7	8522.4	8467.5
5°	7498.4	7770.7	8373.8	8904.4	9376.5	9596.2	9657.4	9476.4	9110.5	8629.7	8336.4
7.5°	6735.5	7122.7	7939.2	8720.8	9416.5	9827.3	9817.2	9396.5	8723.4	7940.5	7469.6
10°	6077.5	6519.4	7455.9	8330.1	9068.0	9466.3	9312.8	8774.6	7971.6	7070.1	6559.5
12.5°	5709.1	6142.3	7092.6	7970.4	8587.3	8724.7	8607.3	8080.3	7323.6	6412.0	5965.0
15°	5645.4	6121.1	6947.8	7662.1	8007.9	7887.9	7748.2	7512.2	6977.8	6199.8	5734.1
17.5°	5921.3	6445.8	7113.8	7447.2	7388.5	7180.1	7140.1	7166.3	7037.6	6435.7	5898.8
20°	6450.8	7080.1	7509.7	7346.1	6917.8	6630.6	6640.6	7041.5	7422.2	7033.9	6420.7
22.5°	7193.7	7911.7	8080.3	7399.8	6719.2	6378.3	6460.8	7110.1	8035.3	7908.0	7125.0
25°	8155.3	8809.6	8688.4	7594.6	6739.3	6409.5	6475.7	7347.3	8759.6	8782.1	7996.6
27.5°	9086.7	9693.6	9199.2	7853.1	6821.5	6483.2	6570.7	7720.8	9451.3	9731.1	8993.1
30°	9813.5	10235.6	9401.4	8089.1	6984.0	6626.8	6735.5	8075.4	9766.1	10371.7	9759.8
32.5°	10415.4	10718.8	9723.7	8381.2	7282.4	6852.8	7043.9	8506.1	10219.3	10981.1	10510.3
35°	11184.5	11270.8	10124.4	8707.1	7743.2	7246.2	7483.4	8928.2	10651.4	11596.6	11249.6
37.5°	12086.2	11974.9	10502.9	9152.9	8338.7	7861.7	8057.8	9391.4	11007.2	12294.7	12004.9
40°	12977.8	12710.5	10977.3	9844.7	9207.8	8587.3	8819.5	9885.9	11339.5	12994.0	12742.9
42.5°	13735.7	13339.8	11445.6	10605.2	10017.0	9387.6	9665.0	10384.1	11656.5	13590.7	13383.5
45°	14296.3	13804.3	11891.4	11335.6	11132.2	10451.6	10582.8	10954.8	12000.0	14089.0	13910.4
47.5°	14797.1	14271.4	12395.8	12072.4	12107.4	11835.1	11624.1	11619.0	12404.5	14496.0	14408.8
50°	15467.6	14919.4	12937.7	12831.6	13570.9	13389.7	12924.0	12394.5	12916.5	14958.1	14948.2
52.5°	16391.6	15945.9	13599.5	13649.4	14936.8	15055.6	14478.6	13326.0	13718.1	15805.9	15746.1
55°	17484.3	17224.6	14501.1	14589.7	16612.6	16697.5	16124.4	14491.1	14897.0	17033.5	16867.4
57.5°	18337.1	18282.1	15490.1	15718.6	17863.9	18246.0	17719.0	15839.8	16225.5	18067.4	17650.3
60°	18676.8	18942.6	16542.7	16857.5	19021.4	19444.7	18982.7	17024.7	17403.0	18495.7	17596.5
62.5°	18493.1	19087.5	17664.0	17637.9	19279.9	19735.7	19410.9	17684.0	18275.8	18053.6	16706.3
65°	17645.3	18566.9	18314.6	17436.8	18395.9	18433.3	18328.4	17389.3	18482.0	16656.4	14985.6
67.5°	15798.5	17124.6	17458.0	15713.6	16010.9	15767.3	15591.3	15776.0	17408.1	14562.3	12594.3
70°	12867.9	14863.3	15023.1	12568.1	12433.4	12269.7	11918.8	12933.9	15289.1	11935.1	9993.4
72.5°	9461.4	11559.2	12050.0	9217.9	8593.5	8627.2	8350.0	9747.2	12430.7	8865.7	7461.0
75°	6473.2	8370.0	9427.6	6432.0	5682.8	5696.5	5661.6	6906.6	9900.8	6167.4	5583.0
77.5°	4728.8	5979.9	7110.1	4324.3	4198.0	4120.6	4102.0	4832.4	7590.8	4477.8	4335.5
80°	3794.8	4417.9	4776.3	2996.8	3222.8	3216.7	3112.9	3322.8	4957.3	3275.3	3242.9
82.5°	2632.3	3395.2	3869.7	2348.8	2175.2	2139.0	2163.9	2474.9	3503.8	2238.9	2129.1
85°	1388.5	2255.1	3832.3	2081.6	1291.1	1030.1	1281.2	2026.7	3035.6	1186.2	1038.9
87.5°	177.3	651.8	2537.4	830.5	509.5	274.7	608.2	1141.2	1949.2	242.3	211.0
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: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	8326.3	8160.3	7943.0	7742.0	7533.4	7326.0	7055.2	6885.2	6767.9	6745.5	6695.4
5°	8124.0	7572.2	7155.0	6794.2	6467.0	6005.0	5749.1	5536.8	5423.1	5411.8	5384.4
7.5°	7191.2	6429.4	5866.4	5355.6	4892.3	4519.1	4107.1	3914.6	3836.0	3854.7	3873.4
10°	6221.0	5369.3	4722.6	4200.7	3792.3	3477.6	3146.8	2923.3	2768.3	2737.1	2730.8
12.5°	5511.7	4577.8	3949.6	3581.3	3265.3	2969.3	2618.5	2355.0	2154.0	2085.3	2039.2
15°	5212.1	4190.7	3532.6	3135.4	2787.1	2411.2	2085.3	1809.4	1624.6	1564.6	1530.9
17.5°	5275.7	4083.2	3245.3	2737.1	2291.3	1899.2	1488.4	1252.4	1141.2	1112.6	1112.6
20°	5610.4	4063.3	3008.2	2370.0	1814.3	1359.9	1022.7	887.9	851.7	847.9	857.8
22.5°	6079.9	4133.2	2830.7	2051.5	1409.8	992.6	796.6	746.8	730.5	734.3	745.5
25°	6779.1	4369.1	2702.2	1768.1	1106.4	812.8	710.5	680.6	673.0	683.0	696.7
27.5°	7608.4	4605.3	2622.2	1554.6	934.0	743.0	675.5	644.4	649.4	661.8	674.3
30°	8336.4	4798.7	2496.1	1402.3	880.2	746.8	675.5	633.0	628.0	630.6	634.4
32.5°	8989.3	4929.9	2348.8	1257.4	759.2	663.0	630.6	624.3	596.8	587.0	588.1
35°	9552.5	4929.9	2260.1	1172.5	680.6	588.1	535.7	504.5	490.7	492.0	505.7
37.5°	10095.7	4831.3	2216.5	1125.0	638.1	559.5	513.2	485.8	466.9	463.3	465.9
40°	10575.1	4687.6	2166.5	1105.0	605.5	541.9	498.2	475.7	455.8	449.5	450.8
42.5°	10959.9	4571.5	2111.6	1078.9	585.6	529.5	488.3	468.2	445.7	439.5	438.4
45°	11375.6	4532.8	2039.2	1026.5	595.7	530.7	485.8	464.6	442.1	434.5	432.1
47.5°	11923.8	4653.8	1964.2	964.1	616.9	536.9	489.4	464.6	440.8	434.5	432.1
50°	12614.3	4938.6	1869.4	872.9	595.7	554.4	488.3	460.8	440.8	434.5	429.6
52.5°	13500.8	5323.1	1744.4	768.0	583.1	596.8	485.8	453.3	434.5	425.7	417.1
55°	14578.6	5637.9	1595.7	681.9	554.4	585.6	482.0	444.5	424.5	412.1	404.5
57.5°	15367.8	5751.5	1404.8	625.6	514.5	566.9	477.0	433.3	412.1	402.1	392.1
60°	15211.5	5531.8	1243.8	590.6	490.7	511.9	473.2	423.3	400.9	393.4	384.7
62.5°	13961.6	4957.3	1140.0	574.3	475.7	466.9	477.0	413.3	390.9	383.3	380.8
65°	12087.4	4109.4	1098.8	570.7	463.3	440.8	443.4	402.1	379.7	373.3	370.9
67.5°	9970.8	3316.5	1062.7	583.1	447.0	422.1	409.5	387.1	368.3	362.1	357.2
70°	7863.0	2758.3	1046.4	575.6	427.1	403.2	389.5	370.9	354.7	348.5	344.6
72.5°	6332.2	2330.1	1037.6	568.2	400.9	378.4	365.9	349.6	332.2	329.7	325.9
75°	5358.2	1831.9	950.2	544.5	370.9	348.5	339.6	324.6	307.2	307.2	304.6
77.5°	4133.2	1324.9	790.4	482.0	339.6	314.6	307.2	295.9	276.0	279.7	278.5
80°	3053.1	864.1	618.2	399.6	300.9	277.1	273.4	262.2	240.9	246.0	246.0
82.5°	2091.6	566.9	444.5	327.2	257.3	234.7	234.7	223.5	199.9	202.3	209.8
85°	1050.2	389.5	332.2	253.5	199.9	188.6	188.6	179.8	156.0	157.4	167.4
87.5°	319.6	234.7	219.7	181.1	143.5	141.2	134.8	128.5	113.6	112.4	118.7
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: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	6619.3	6548.1	6462.0	6272.1	6208.5	6204.8	6262.3	6202.3	6317.2	6268.5	6322.1
5°	5338.2	5268.3	5172.1	4929.9	4782.4	4682.7	4635.2	4495.3	4596.4	4522.7	4584.1
7.5°	3926.0	3942.1	3878.4	3736.1	3415.1	3254.1	3159.2	3074.3	3148.0	3140.5	3257.9
10°	2759.7	2803.3	2758.3	2614.7	2355.0	2266.3	2283.9	2317.5	2413.7	2463.7	2644.7
12.5°	1986.7	1984.1	1955.5	1826.9	1655.8	1665.7	1737.0	1795.6	1884.3	1936.7	2121.5
15°	1483.5	1461.0	1448.4	1343.5	1246.2	1267.4	1302.5	1308.7	1364.9	1396.1	1546.0
17.5°	1121.4	1132.6	1146.2	1071.4	997.7	984.0	956.4	922.7	939.0	945.2	1020.1
20°	890.3	935.2	969.0	916.5	841.6	801.6	766.8	744.2	744.2	743.0	764.2
22.5°	777.9	810.5	846.7	810.5	743.0	708.0	688.0	670.6	668.1	668.1	688.0
25°	716.8	740.5	775.4	750.4	700.5	674.3	655.6	633.0	624.3	621.8	635.6
27.5°	686.8	696.7	714.2	691.8	649.4	636.9	631.9	611.8	600.6	594.4	608.2
30°	635.6	633.0	634.4	611.8	578.1	576.9	585.6	589.4	585.6	584.3	605.5
32.5°	588.1	583.1	581.9	561.9	530.7	523.3	530.7	538.2	546.9	559.5	584.3
35°	528.3	540.7	548.1	530.7	493.2	470.7	462.0	448.3	440.8	440.8	469.5
37.5°	480.8	509.5	520.7	504.5	463.3	432.1	417.1	414.6	415.8	420.9	448.3
40°	464.6	485.8	495.8	479.4	438.4	409.5	400.9	398.3	400.9	408.3	435.8
42.5°	454.5	469.5	468.2	448.3	414.6	394.5	389.5	387.1	389.5	397.1	427.1
45°	445.7	455.8	445.7	422.1	390.9	380.8	382.0	380.8	383.3	390.9	419.6
47.5°	438.4	442.1	429.6	405.9	373.3	370.9	375.9	379.7	382.0	388.3	418.3
50°	427.1	427.1	415.8	390.9	358.3	359.6	365.9	374.7	375.9	383.3	407.1
52.5°	413.3	412.1	404.5	380.8	345.8	349.6	349.6	359.6	362.1	370.9	395.9
55°	402.1	399.6	395.9	373.3	334.7	340.8	337.1	340.8	347.1	355.9	383.3
57.5°	392.1	387.1	387.1	367.0	325.9	328.4	319.6	324.6	332.2	339.6	368.3
60°	382.0	377.1	379.7	358.3	312.3	309.6	306.0	315.9	318.4	327.2	355.9
62.5°	370.9	367.0	368.3	348.5	302.2	295.9	295.9	304.6	306.0	318.4	345.8
65°	362.1	357.2	355.9	338.4	291.0	283.4	287.2	291.0	293.4	306.0	332.2
67.5°	353.4	343.4	343.4	329.7	278.5	271.0	278.5	277.1	281.0	292.2	313.4
70°	342.2	328.4	329.7	323.4	266.0	257.3	263.5	262.2	264.7	272.2	293.4
72.5°	324.6	313.4	315.9	313.4	253.5	240.9	243.5	243.5	243.5	249.8	272.2
75°	302.2	293.4	300.9	307.2	238.5	221.1	223.5	223.5	219.7	223.5	250.9
77.5°	274.7	269.8	294.7	285.9	221.1	199.9	199.9	197.3	189.8	194.8	224.8
80°	244.8	240.9	272.2	239.8	201.0	173.6	171.0	164.7	157.4	161.1	191.1
82.5°	213.5	209.8	228.4	183.6	173.6	143.5	137.4	126.1	118.7	122.3	149.8
85°	174.8	174.8	176.1	138.6	132.4	110.0	102.3	87.5	78.7	81.1	107.3
87.5°	124.9	128.5	118.7	95.0	78.7	61.2	56.2	47.4	40.0	46.3	56.2
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: P269329

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	6596.9	6734.2	6890.3	7090.1	7261.2	7542.1	7811.8	7974.2
5°	4932.4	5160.9	5445.5	5811.4	6152.3	6664.3	7172.4	7498.4
7.5°	3530.1	3774.8	4082.0	4539.0	5020.9	5674.1	6345.8	6735.5
10°	2920.7	3171.6	3430.2	3738.6	4133.2	4843.8	5637.9	6077.5
12.5°	2416.3	2684.8	2963.1	3287.8	3653.6	4288.0	5203.3	5709.1
15°	1849.3	2149.0	2477.4	2888.2	3346.5	4079.6	5095.9	5645.4
17.5°	1267.4	1602.0	2005.3	2512.4	3073.0	4012.1	5288.2	5921.3
20°	872.9	1116.4	1547.2	2141.5	2815.7	4003.3	5657.9	6450.8
22.5°	730.5	839.1	1153.9	1800.7	2622.2	4110.7	6231.1	7193.7
25°	675.5	740.5	921.5	1504.8	2481.2	4357.9	7020.2	8155.3
27.5°	643.0	701.8	836.6	1311.2	2370.0	4645.1	7788.1	9086.7
30°	655.6	715.5	812.8	1212.5	2219.0	4885.0	8469.8	9813.5
32.5°	590.6	616.9	696.7	1125.0	2110.3	5085.9	9066.9	10415.4
35°	503.2	549.5	621.8	1083.8	2112.9	5220.8	9717.3	11184.5
37.5°	479.4	525.7	578.1	1069.0	2141.5	5364.4	10464.0	12086.2
40°	464.6	507.0	551.9	1060.1	2169.0	5495.6	11195.8	12977.8
42.5°	454.5	493.2	549.5	1030.1	2182.7	5612.9	11797.7	13735.7
45°	453.3	493.2	559.5	1000.3	2203.9	5739.0	12302.2	14296.3
47.5°	454.5	509.5	540.7	964.1	2203.9	5950.1	12894.0	14797.1
50°	449.5	536.9	520.7	912.8	2152.8	6349.6	13705.7	15467.6
52.5°	447.0	533.2	482.0	834.2	2064.0	6984.0	14745.9	16391.6
55°	440.8	514.5	454.5	716.8	1960.5	7675.7	15859.7	17484.3
57.5°	434.5	455.8	439.5	614.4	1800.7	8162.7	16626.4	18337.1
60°	487.1	398.3	427.1	564.5	1587.0	8296.3	16596.5	18676.8
62.5°	450.8	373.3	410.9	553.1	1437.3	7921.8	15829.8	18493.1
65°	353.4	357.2	394.5	585.6	1397.4	6929.0	14471.2	17645.3
67.5°	323.4	340.8	378.4	626.8	1401.0	5547.9	12440.7	15798.5
70°	304.6	323.4	359.6	648.0	1411.1	4135.6	9836.0	12867.9
72.5°	283.4	299.7	338.4	651.8	1346.1	3004.3	7580.8	9461.4
75°	258.5	273.4	308.4	568.2	1115.1	2084.1	5799.0	6473.2
77.5°	229.7	240.9	271.0	438.4	827.9	1333.7	4352.9	4728.8
80°	196.0	202.3	227.4	321.0	566.9	834.2	3443.9	3794.8
82.5°	157.4	159.8	176.1	240.9	368.3	535.7	2306.4	2632.3
85°	111.1	111.1	121.1	174.8	250.9	339.6	1252.4	1388.5
87.5°	52.5	53.7	53.7	96.2	131.2	172.4	288.4	177.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)