

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: P193023

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193023
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 20430.4 lumens
Efficiency: N/A
Efficacy: 97.3 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): 210
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

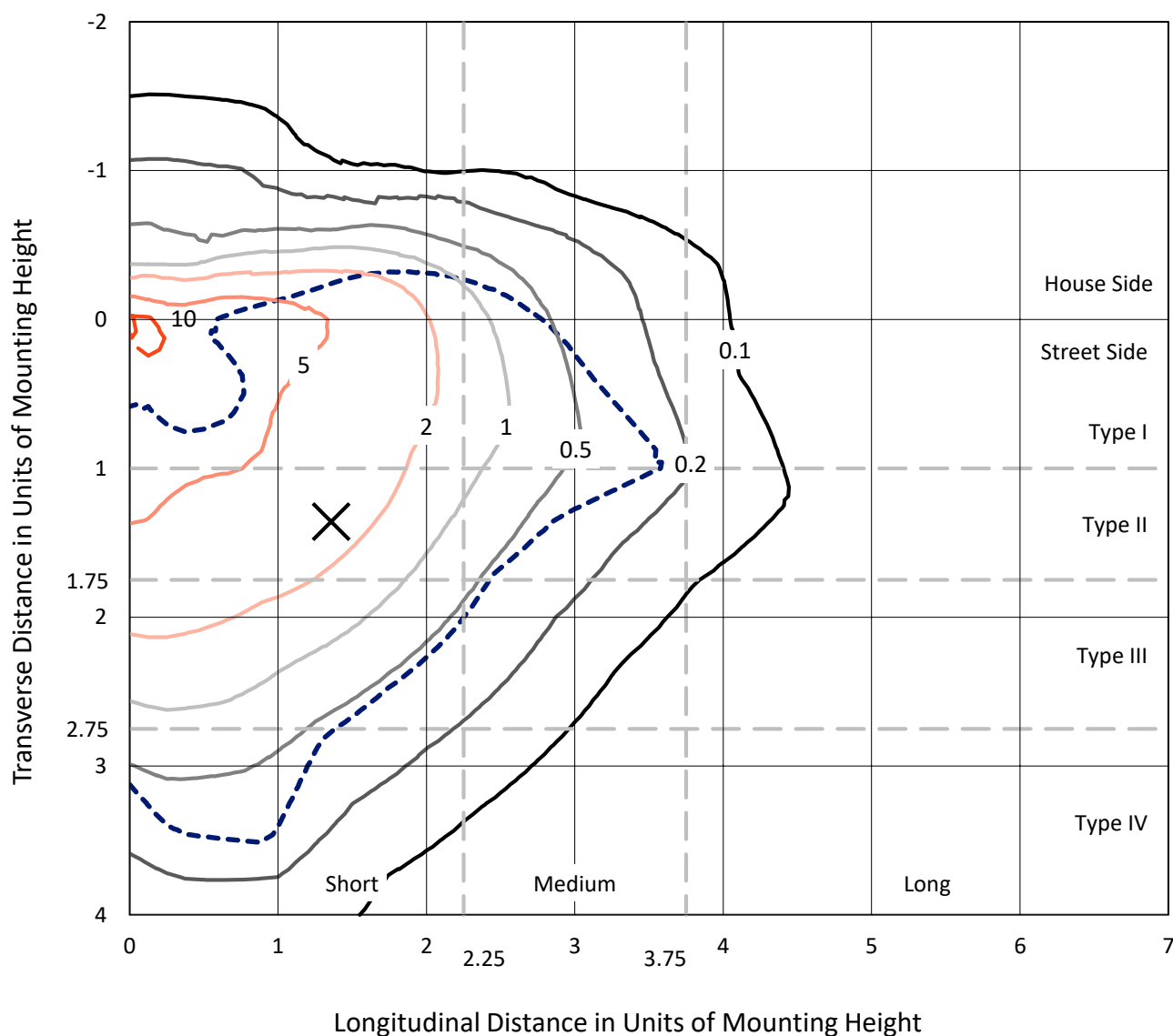


REPORT NUMBER: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

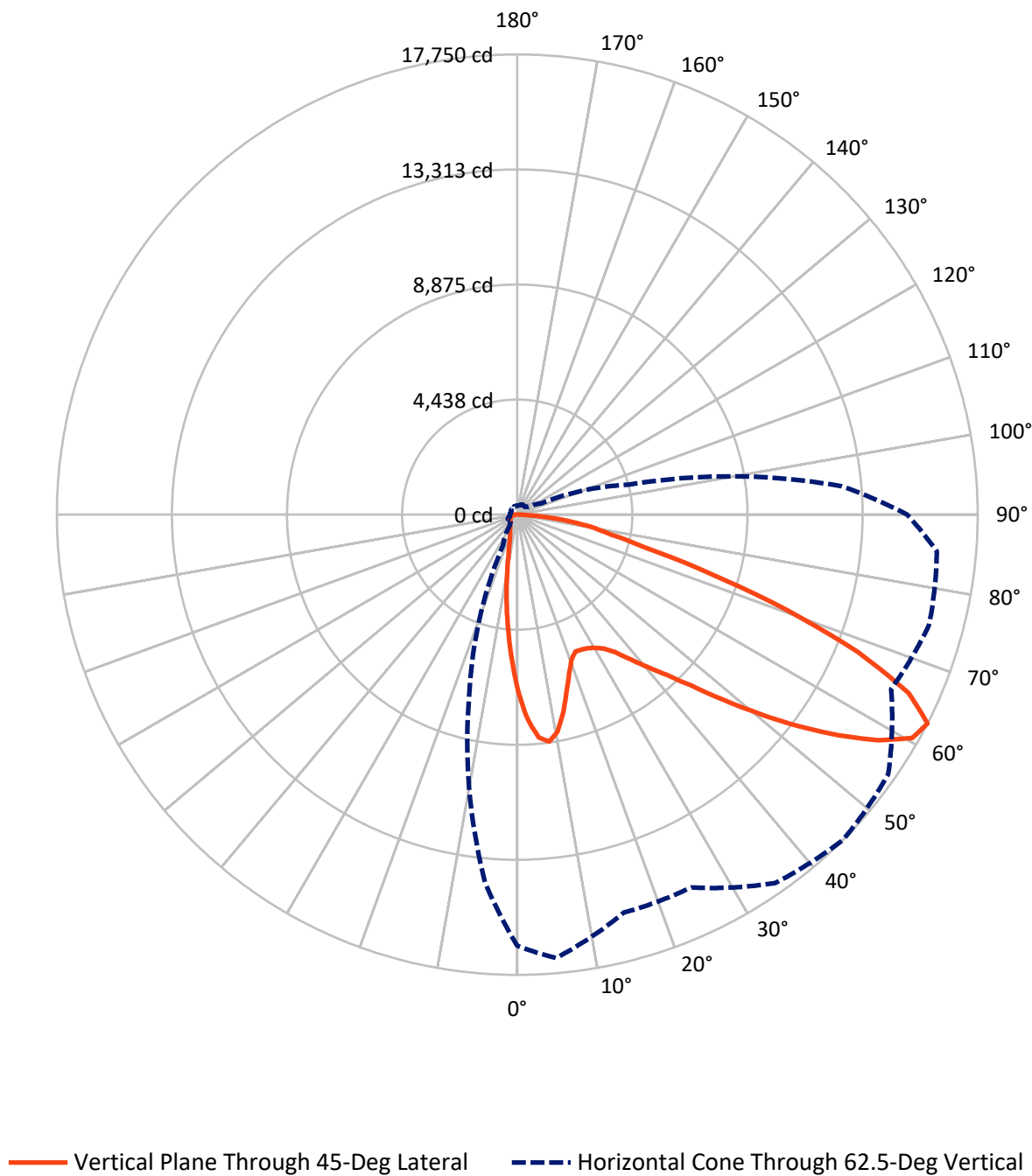


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

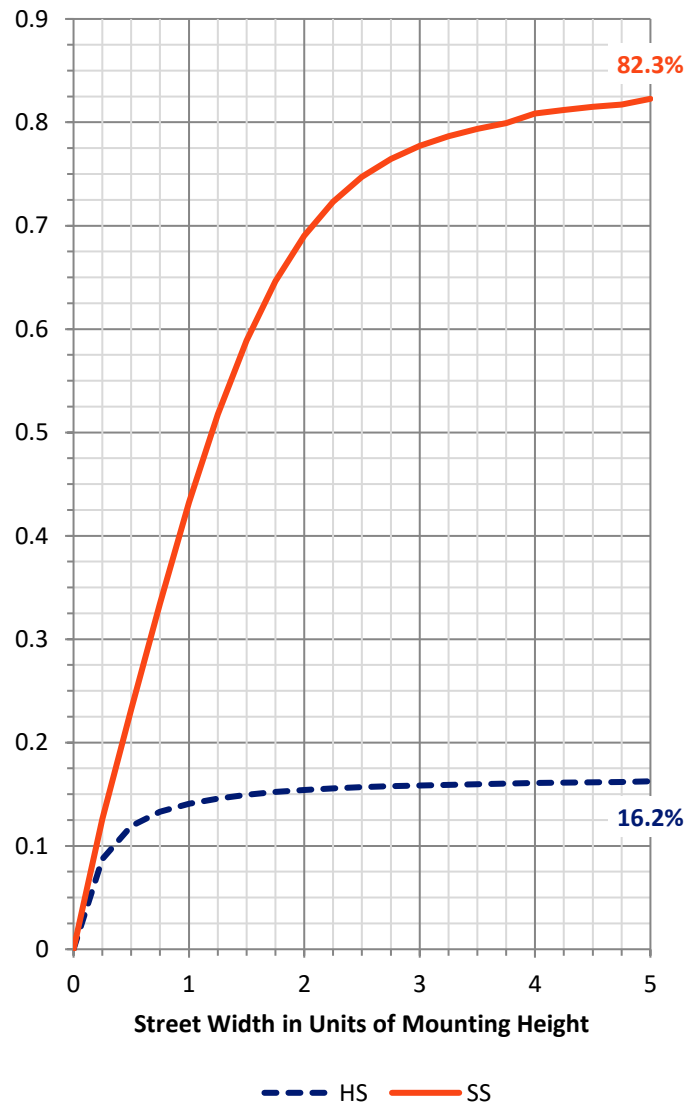
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3380.9	0.0	3380.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17049.4	0.0	17049.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	20430.4	0.0	20430.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.5	2.5
10°-20°	921.4	4.5
20°-30°	1343.4	6.6
30°-40°	2069.0	10.1
40°-50°	3045.0	14.9
50°-60°	4466.4	21.9
60°-70°	4992.8	24.4
70°-80°	2444.4	12.0
80°-90°	645.4	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°	20430.4	100.0
0°-180°	20430.4	100.0

Coefficient of Utilization



REPORT NUMBER: P193023

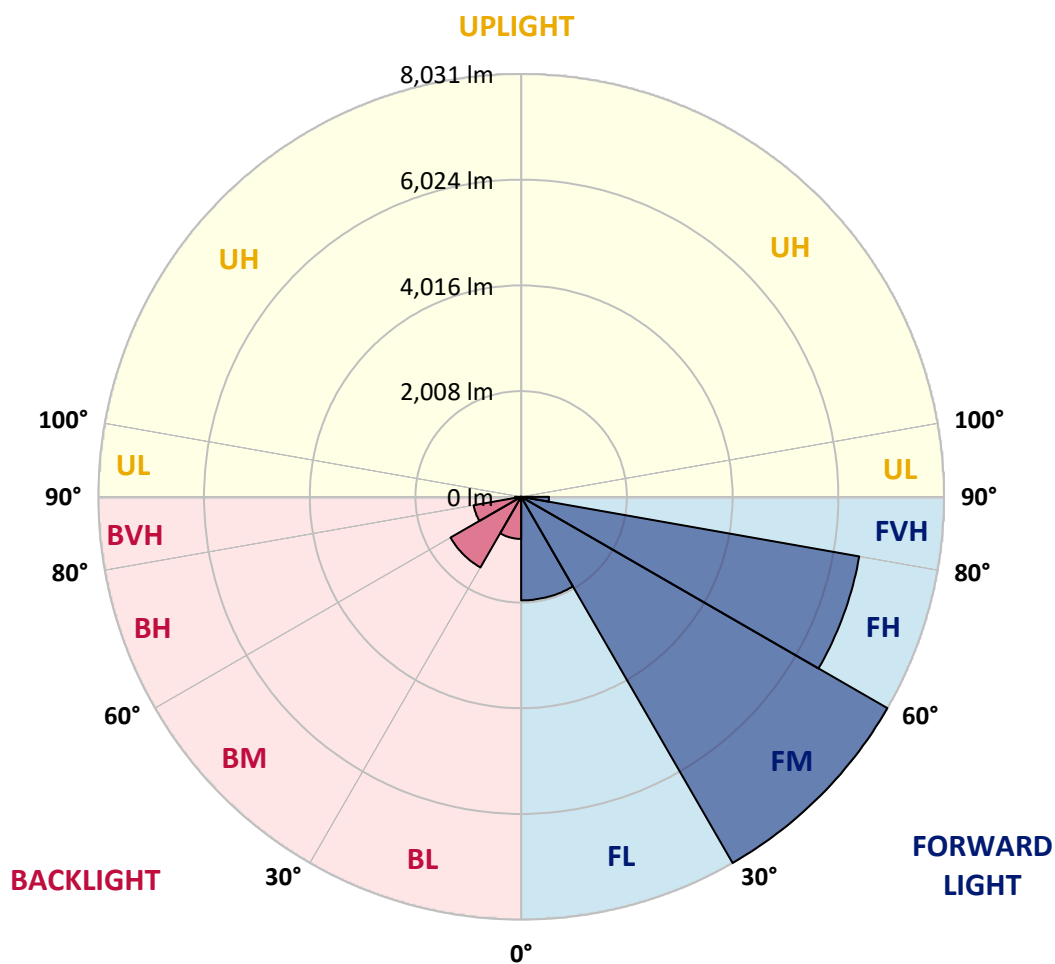
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1967.4	9.6			
FM	(30°-60°)	8031.4	39.3			
FH	(60°-80°)	6520.7	31.9			G3/7500
FVH	(80°-90°)	530.0	2.6			G4/750
BL	(0°-30°)	799.9	3.9	B2/1000		
BM	(30°-60°)	1549.1	7.6	B2/2500		
BH	(60°-80°)	916.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	115.4	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



REPORT NUMBER: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	7172.0	7286.6	7510.1	7677.4	7880.7	7927.9	7993.0	7929.0	7815.6	7665.1	7615.7
5°	6744.1	6989.0	7531.5	8008.7	8433.2	8630.9	8685.9	8523.1	8194.0	7761.7	7497.7
7.5°	6057.9	6406.1	7140.5	7843.6	8469.2	8838.6	8829.7	8451.2	7845.9	7141.7	6718.4
10°	5466.0	5863.6	6705.9	7492.1	8155.8	8514.1	8376.0	7891.9	7169.8	6358.9	5899.6
12.5°	5134.7	5524.4	6379.1	7168.6	7723.4	7847.0	7741.4	7267.5	6586.9	5767.0	5364.9
15°	5077.5	5505.3	6248.9	6891.3	7202.4	7094.5	6968.8	6756.5	6275.9	5576.1	5157.2
17.5°	5325.7	5797.4	6398.2	6698.1	6645.2	6457.8	6421.8	6445.4	6329.7	5788.3	5305.4
20°	5801.8	6367.8	6754.2	6607.1	6221.9	5963.6	5972.5	6333.1	6675.6	6326.3	5774.9
22.5°	6470.2	7115.8	7267.5	6655.4	6043.3	5736.7	5810.9	6394.8	7227.1	7112.4	6408.3
25°	7334.9	7923.4	7814.4	6830.6	6061.2	5764.8	5824.3	6608.2	7878.4	7898.7	7192.2
27.5°	8172.7	8718.6	8273.7	7063.1	6135.5	5831.0	5909.8	6944.1	8500.6	8752.2	8088.5
30°	8826.3	9205.9	8455.7	7275.3	6281.5	5960.2	6057.9	7263.0	8783.7	9328.3	8778.0
32.5°	9367.7	9640.6	8745.4	7538.2	6549.9	6163.6	6335.3	7650.5	9191.3	9876.4	9453.0
35°	10059.5	10137.0	9106.0	7831.2	6964.3	6517.4	6730.7	8030.1	9580.0	10430.1	10117.9
37.5°	10870.3	10770.3	9446.2	8232.2	7500.0	7070.9	7247.2	8446.8	9900.0	11057.9	10797.3
40°	11672.2	11431.9	9873.0	8854.4	8281.7	7723.4	7932.3	8891.5	10198.7	11686.8	11461.1
42.5°	12354.0	11998.0	10294.2	9538.4	9009.4	8443.3	8692.6	9339.6	10484.0	12223.7	12037.2
45°	12858.1	12415.6	10695.2	10195.4	10012.3	9400.2	9518.1	9852.8	10792.8	12671.8	12511.2
47.5°	13308.6	12835.8	11149.0	10857.9	10889.5	10644.6	10454.8	10450.3	11156.7	13037.9	12959.2
50°	13911.7	13418.6	11636.3	11540.8	12205.7	12042.9	11624.0	11147.7	11617.2	13453.4	13444.5
52.5°	14742.8	14341.8	12231.6	12276.5	13434.3	13541.0	13022.2	11985.5	12338.2	14216.0	14162.0
55°	15725.4	15491.9	13042.4	13122.1	14941.5	15017.9	14502.4	13033.4	13398.5	15320.0	15170.6
57.5°	16492.4	16443.1	13931.8	14137.4	16066.9	16410.5	15936.5	14246.4	14593.4	16249.9	15874.9
60°	16797.9	17037.3	14878.6	15161.7	17108.0	17488.7	17073.2	15312.1	15652.5	16635.2	15826.5
62.5°	16632.9	17167.5	15887.2	15863.6	17340.4	17750.4	17458.3	15905.1	16437.5	16237.6	15025.8
65°	15870.4	16699.1	16472.3	15682.7	16545.3	16579.0	16484.7	15640.1	16622.8	14980.9	13478.1
67.5°	14209.2	15402.0	15701.8	14132.9	14400.3	14181.2	14022.9	14189.1	15657.0	13097.5	11327.5
70°	11573.4	13368.1	13511.9	11303.9	11182.5	11035.4	10719.9	11633.0	13751.1	10734.5	8988.1
72.5°	8509.6	10396.4	10837.8	8290.6	7729.1	7759.4	7510.1	8766.9	11180.3	7974.0	6710.4
75°	5822.1	7528.1	8479.3	5785.1	5111.1	5123.5	5092.0	6211.8	8904.9	5546.9	5021.3
77.5°	4253.1	5378.5	6394.8	3889.2	3775.8	3706.2	3689.3	4346.4	6827.3	4027.4	3899.4
80°	3413.0	3973.4	4295.8	2695.4	2898.6	2893.0	2799.9	2988.6	4458.7	2945.8	2916.6
82.5°	2367.4	3053.7	3480.5	2112.5	1956.4	1923.8	1946.4	2225.9	3151.4	2013.6	1914.9
85°	1248.9	2028.3	3446.8	1872.1	1161.3	926.5	1152.2	1822.8	2730.2	1066.9	934.3
87.5°	159.5	586.2	2282.1	746.9	458.3	247.0	547.0	1026.5	1753.2	217.9	189.8
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: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	7488.7	7339.4	7143.9	6963.1	6775.6	6589.1	6345.4	6192.7	6087.2	6066.9	6022.0
5°	7306.8	6810.3	6435.3	6110.8	5816.4	5400.9	5170.7	4979.7	4877.6	4867.5	4842.7
7.5°	6467.8	5782.8	5276.2	4816.9	4400.2	4064.5	3693.8	3520.9	3450.1	3467.1	3483.8
10°	5595.1	4829.3	4247.6	3778.0	3410.8	3127.8	2830.2	2629.1	2489.9	2461.8	2456.1
12.5°	4957.3	4117.2	3552.3	3221.0	2936.9	2670.8	2355.1	2118.1	1937.2	1875.6	1834.0
15°	4687.8	3769.1	3177.3	2820.1	2506.7	2168.7	1875.6	1627.3	1461.2	1407.3	1376.8
17.5°	4745.0	3672.5	2918.9	2461.8	2060.8	1708.2	1338.8	1126.5	1026.5	1000.7	1000.7
20°	5046.0	3654.5	2705.5	2131.6	1631.9	1223.0	919.9	798.4	765.9	762.6	771.6
22.5°	5468.3	3717.4	2546.1	1845.3	1268.0	892.8	716.5	671.6	656.9	660.4	670.6
25°	6097.2	3929.7	2430.4	1590.3	995.1	731.2	639.0	612.1	605.3	614.4	626.7
27.5°	6843.0	4141.9	2358.5	1398.2	840.1	668.2	607.6	579.5	584.0	595.3	606.5
30°	7497.7	4316.1	2245.1	1261.2	791.8	671.6	607.6	569.4	564.9	567.2	570.6
32.5°	8085.0	4434.0	2112.5	1131.0	682.9	596.3	567.2	561.6	536.8	527.8	529.0
35°	8591.6	4434.0	2032.8	1054.6	612.1	529.0	481.9	453.8	441.4	442.5	454.8
37.5°	9080.1	4345.2	1993.4	1011.8	573.9	503.1	461.6	436.9	420.0	416.8	418.9
40°	9511.4	4216.1	1948.5	993.9	544.6	487.4	448.1	427.9	409.9	404.3	405.5
42.5°	9857.4	4111.7	1899.2	970.3	526.7	476.2	439.1	421.2	401.0	395.3	394.2
45°	10231.4	4076.8	1834.0	923.1	535.7	477.4	436.9	417.8	397.6	390.8	388.6
47.5°	10724.4	4185.7	1766.6	867.0	554.8	482.9	440.2	417.8	396.5	390.8	388.6
50°	11345.4	4441.8	1681.3	785.0	535.7	498.7	439.1	414.4	396.5	390.8	386.3
52.5°	12142.8	4787.7	1569.0	690.7	524.5	536.8	436.9	407.6	390.8	383.0	375.1
55°	13111.9	5070.7	1435.3	613.2	498.7	526.7	433.5	399.8	381.9	370.6	363.9
57.5°	13821.9	5172.9	1263.5	562.6	462.7	509.9	429.1	389.7	370.6	361.6	352.7
60°	13681.5	4975.2	1118.6	531.2	441.4	460.4	425.7	380.8	360.5	353.8	346.0
62.5°	12557.2	4458.7	1025.4	516.6	427.9	420.0	429.1	371.7	351.5	344.8	342.5
65°	10871.6	3696.0	988.4	513.3	416.8	396.5	398.7	361.6	341.4	335.8	333.6
67.5°	8967.9	2982.9	955.8	524.5	402.1	379.5	368.4	348.2	331.3	325.7	321.2
70°	7072.1	2481.0	941.2	517.8	384.0	362.7	350.4	333.6	318.9	313.3	310.0
72.5°	5695.1	2095.7	933.3	511.0	360.5	340.4	329.1	314.4	298.8	296.5	293.2
75°	4819.2	1647.5	854.6	489.7	333.6	313.3	305.5	292.0	276.3	276.3	274.0
77.5°	3717.4	1191.6	710.9	433.5	305.5	283.0	276.3	266.1	248.2	251.7	250.4
80°	2745.9	777.2	555.9	359.4	270.6	249.3	246.0	235.9	216.8	221.2	221.2
82.5°	1881.1	509.9	399.8	294.2	231.3	211.1	211.1	201.0	179.7	181.9	188.7
85°	944.5	350.4	298.8	228.1	179.7	169.6	169.6	161.7	140.4	141.5	150.4
87.5°	287.5	211.1	197.6	162.8	129.2	127.0	121.3	115.7	102.1	101.1	106.7
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: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	5953.4	5889.5	5811.9	5641.3	5584.0	5580.6	5632.4	5578.3	5681.7	5637.9	5686.2
5°	4801.2	4738.2	4651.8	4434.0	4301.4	4211.6	4168.9	4043.1	4134.1	4067.8	4122.9
7.5°	3530.9	3545.6	3488.3	3360.3	3071.6	2926.7	2841.4	2765.1	2831.4	2824.6	2930.2
10°	2482.1	2521.3	2481.0	2351.7	2118.1	2038.4	2054.1	2084.4	2170.9	2215.9	2378.7
12.5°	1786.8	1784.5	1758.7	1643.0	1489.2	1498.2	1562.2	1615.0	1694.7	1741.9	1908.1
15°	1334.3	1314.1	1302.8	1208.4	1120.9	1139.9	1171.4	1176.9	1227.5	1255.6	1390.5
17.5°	1008.6	1018.7	1031.0	963.5	897.3	885.0	860.3	830.0	844.6	850.1	917.6
20°	800.8	841.2	871.6	824.4	756.9	721.0	689.5	669.3	669.3	668.2	687.4
22.5°	699.7	728.9	761.4	728.9	668.2	636.8	618.9	603.1	600.8	600.8	618.9
25°	644.6	666.1	697.4	675.0	630.1	606.5	589.7	569.4	561.6	559.3	571.7
27.5°	617.8	626.7	642.5	622.2	584.0	572.7	568.2	550.3	540.2	534.6	547.0
30°	571.7	569.4	570.6	550.3	520.0	518.9	526.7	530.1	526.7	525.6	544.6
32.5°	529.0	524.5	523.4	505.5	477.4	470.6	477.4	484.0	491.8	503.1	525.6
35°	475.1	486.3	493.1	477.4	443.6	423.4	415.5	403.1	396.5	396.5	422.3
37.5°	432.3	458.3	468.2	453.8	416.8	388.6	375.1	372.9	374.0	378.5	403.1
40°	417.8	436.9	445.9	431.2	394.2	368.4	360.5	358.3	360.5	367.2	391.9
42.5°	408.8	422.3	421.2	403.1	372.9	354.9	350.4	348.2	350.4	357.2	384.0
45°	401.0	409.9	401.0	379.5	351.5	342.5	343.6	342.5	344.8	351.5	377.4
47.5°	394.2	397.6	386.3	365.0	335.8	333.6	338.0	341.4	343.6	349.3	376.2
50°	384.0	384.0	374.0	351.5	322.4	323.4	329.1	336.9	338.0	344.8	366.1
52.5°	371.7	370.6	363.9	342.5	311.1	314.4	314.4	323.4	325.7	333.6	355.9
55°	361.6	359.4	355.9	335.8	301.0	306.6	303.2	306.6	312.3	320.1	344.8
57.5°	352.7	348.2	348.2	330.2	293.2	295.3	287.5	292.0	298.8	305.5	331.3
60°	343.6	339.1	341.4	322.4	280.8	278.5	275.2	284.2	286.4	294.2	320.1
62.5°	333.6	330.2	331.3	313.3	271.8	266.1	266.1	274.0	275.2	286.4	311.1
65°	325.7	321.2	320.1	304.4	261.6	254.9	258.3	261.6	264.0	275.2	298.8
67.5°	317.8	308.8	308.8	296.5	250.4	243.7	250.4	249.3	252.7	262.8	281.9
70°	307.7	295.3	296.5	290.8	239.2	231.3	237.0	235.9	238.0	244.8	264.0
72.5°	292.0	281.9	284.2	281.9	228.1	216.8	218.9	218.9	218.9	224.6	244.8
75°	271.8	264.0	270.6	276.3	214.4	198.8	201.0	201.0	197.6	201.0	225.7
77.5°	247.0	242.5	265.1	257.2	198.8	179.7	179.7	177.4	170.7	175.3	202.1
80°	220.1	216.8	244.8	215.7	180.9	156.1	153.8	148.3	141.5	144.9	171.9
82.5°	192.1	188.7	205.5	165.1	156.1	129.2	123.6	113.4	106.7	110.1	134.7
85°	157.3	157.3	158.3	124.7	119.1	98.9	92.1	78.6	70.8	72.9	96.5
87.5°	112.3	115.7	106.7	85.3	70.8	55.0	50.6	42.7	35.9	41.5	50.6
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: P193023

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5	6902.5
2.5°	5933.3	6056.8	6197.1	6376.9	6530.8	6783.5	7026.0	7172.0
5°	4436.2	4641.7	4897.8	5226.9	5533.4	5994.0	6451.0	6744.1
7.5°	3175.0	3395.1	3671.3	4082.4	4515.9	5103.3	5707.4	6057.9
10°	2626.9	2852.6	3085.2	3362.6	3717.4	4356.5	5070.7	5466.0
12.5°	2173.1	2414.6	2665.1	2957.1	3286.2	3856.7	4679.9	5134.7
15°	1663.3	1932.8	2228.3	2597.7	3009.9	3669.2	4583.3	5077.5
17.5°	1139.9	1440.9	1803.7	2259.7	2763.9	3608.5	4756.3	5325.7
20°	785.0	1004.1	1391.5	1926.1	2532.5	3600.6	5088.8	5801.8
22.5°	656.9	754.8	1037.8	1619.4	2358.5	3697.3	5604.2	6470.2
25°	607.6	666.1	828.8	1353.2	2231.6	3919.5	6314.0	7334.9
27.5°	578.4	631.2	752.5	1179.2	2131.6	4177.8	7004.7	8172.7
30°	589.7	643.5	731.2	1090.5	1995.7	4393.6	7617.9	8826.3
32.5°	531.2	554.8	626.7	1011.8	1898.1	4574.3	8154.7	9367.7
35°	452.6	494.2	559.3	974.8	1900.2	4695.6	8739.8	10059.5
37.5°	431.2	472.8	520.0	961.4	1926.1	4824.8	9411.5	10870.3
40°	417.8	455.9	496.4	953.5	1950.9	4942.7	10069.6	11672.2
42.5°	408.8	443.6	494.2	926.5	1963.2	5048.4	10610.9	12354.0
45°	407.6	443.6	503.1	899.6	1982.3	5161.7	11064.6	12858.1
47.5°	408.8	458.3	486.3	867.0	1982.3	5351.5	11597.0	13308.6
50°	404.3	482.9	468.2	821.0	1936.2	5710.9	12326.9	13911.7
52.5°	402.1	479.5	433.5	750.2	1856.5	6281.5	13262.6	14742.8
55°	396.5	462.7	408.8	644.6	1763.2	6903.6	14264.4	15725.4
57.5°	390.8	409.9	395.3	552.6	1619.4	7341.5	14953.9	16492.4
60°	438.0	358.3	384.0	507.6	1427.5	7461.8	14926.9	16797.9
62.5°	405.5	335.8	369.6	497.5	1292.6	7124.9	14237.3	16632.9
65°	317.8	321.2	354.9	526.7	1256.7	6232.0	13015.4	15870.4
67.5°	290.8	306.6	340.4	563.8	1260.1	4989.9	11189.4	14209.2
70°	274.0	290.8	323.4	582.9	1269.0	3719.6	8846.5	11573.4
72.5°	254.9	269.6	304.4	586.2	1210.7	2702.1	6818.3	8509.6
75°	232.5	246.0	277.4	511.0	1002.9	1874.5	5215.6	5822.1
77.5°	206.6	216.8	243.7	394.2	744.6	1199.4	3915.1	4253.1
80°	176.4	181.9	204.5	288.7	509.9	750.2	3097.5	3413.0
82.5°	141.5	143.7	158.3	216.8	331.3	481.9	2074.3	2367.4
85°	100.0	100.0	108.9	157.3	225.7	305.5	1126.5	1248.9
87.5°	47.2	48.3	48.3	86.5	117.9	155.0	259.4	159.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)