

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: P194649

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194649
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-01-LED-E1-SLR-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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



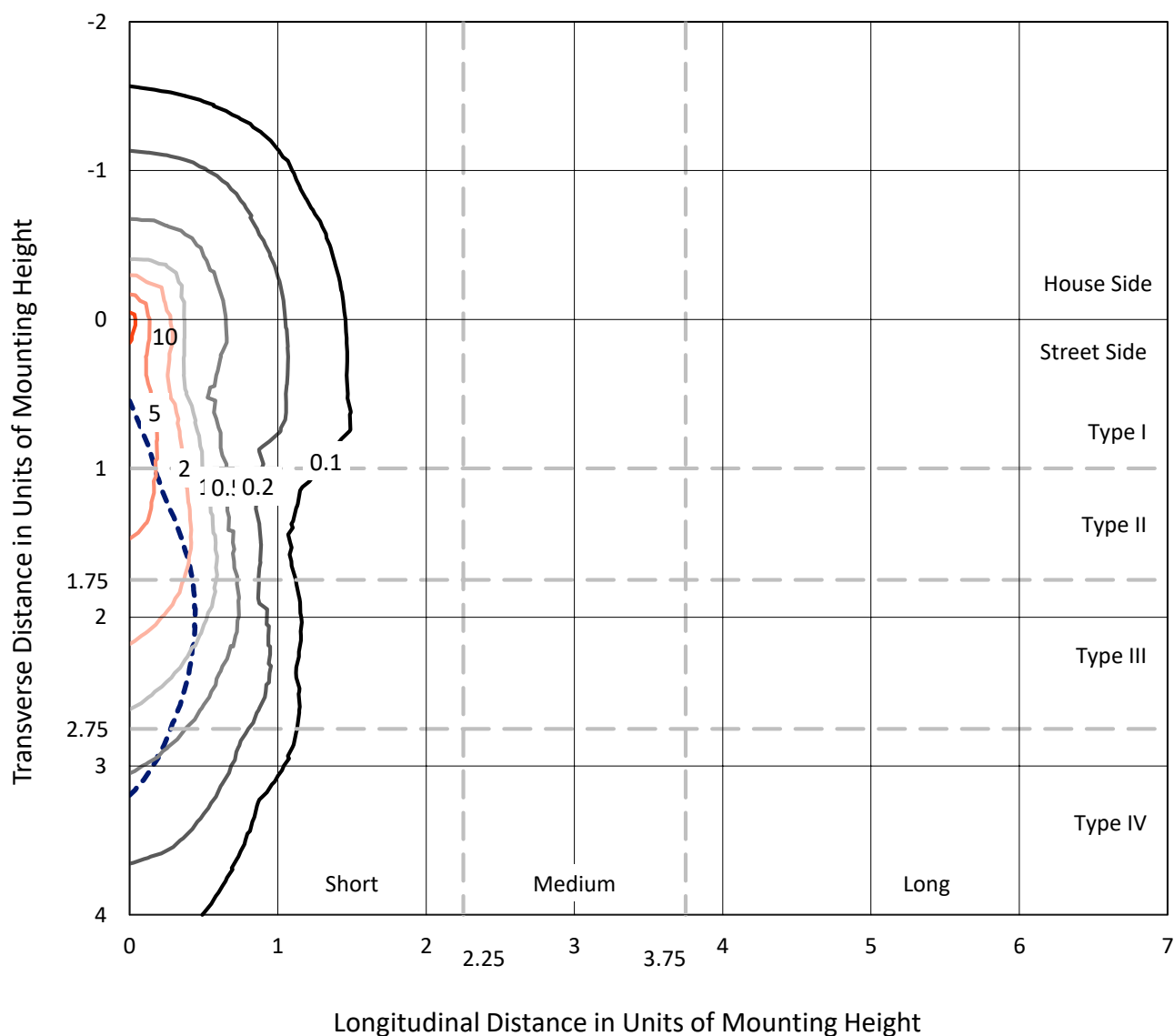
REPORT NUMBER: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

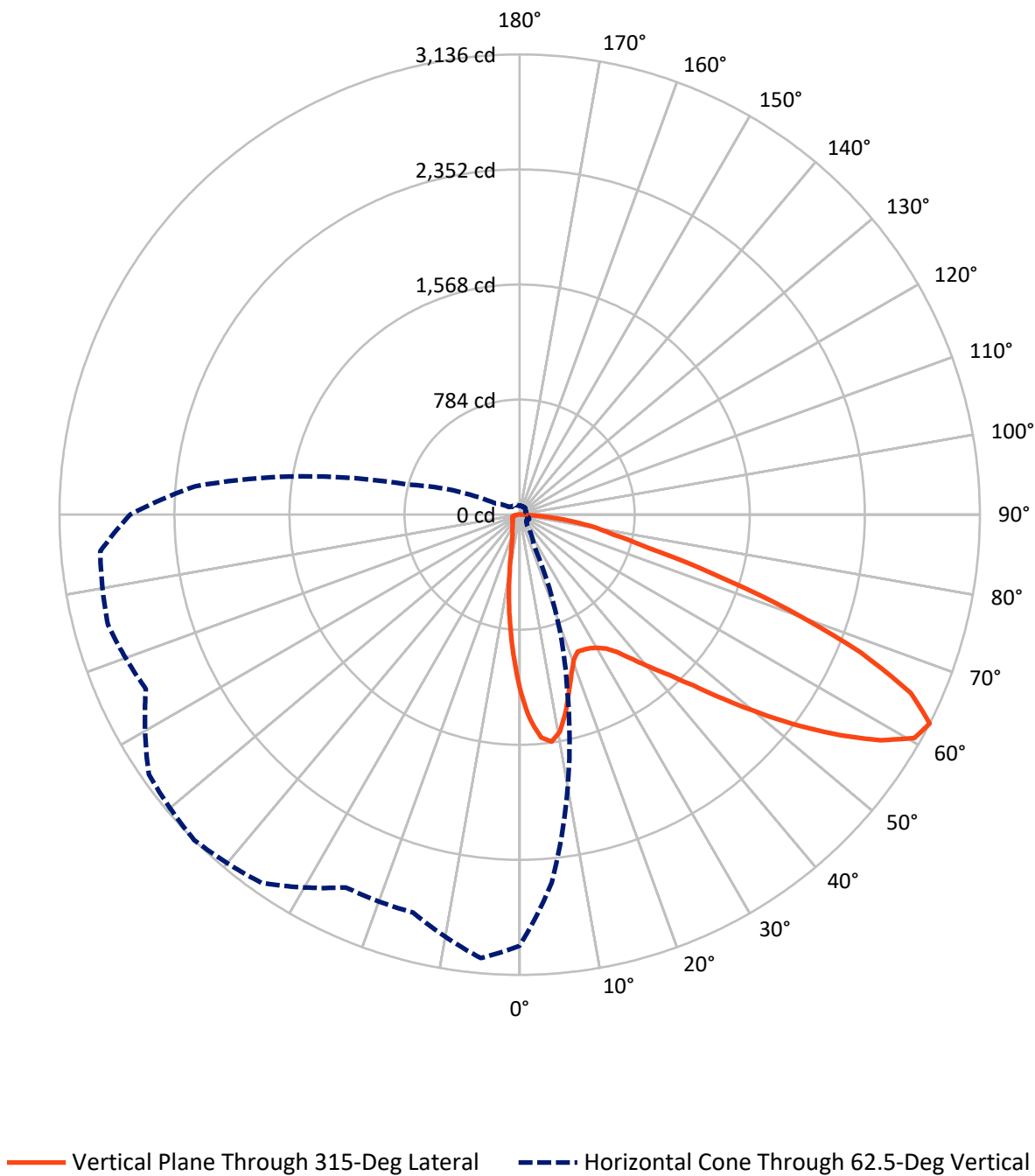


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

Luminous Intensity Polar Plot



REPORT NUMBER: P194649

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.2	0.0	597.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3011.8	0.0	3011.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	3609.0	0.0	3609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.5
10°-20°	162.8	4.5
20°-30°	237.3	6.6
30°-40°	365.5	10.1
40°-50°	537.9	14.9
50°-60°	789.0	21.9
60°-70°	882.0	24.4
70°-80°	431.8	12.0
80°-90°	114.0	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°	3609.0	100.0
0°-180°	3609.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194649

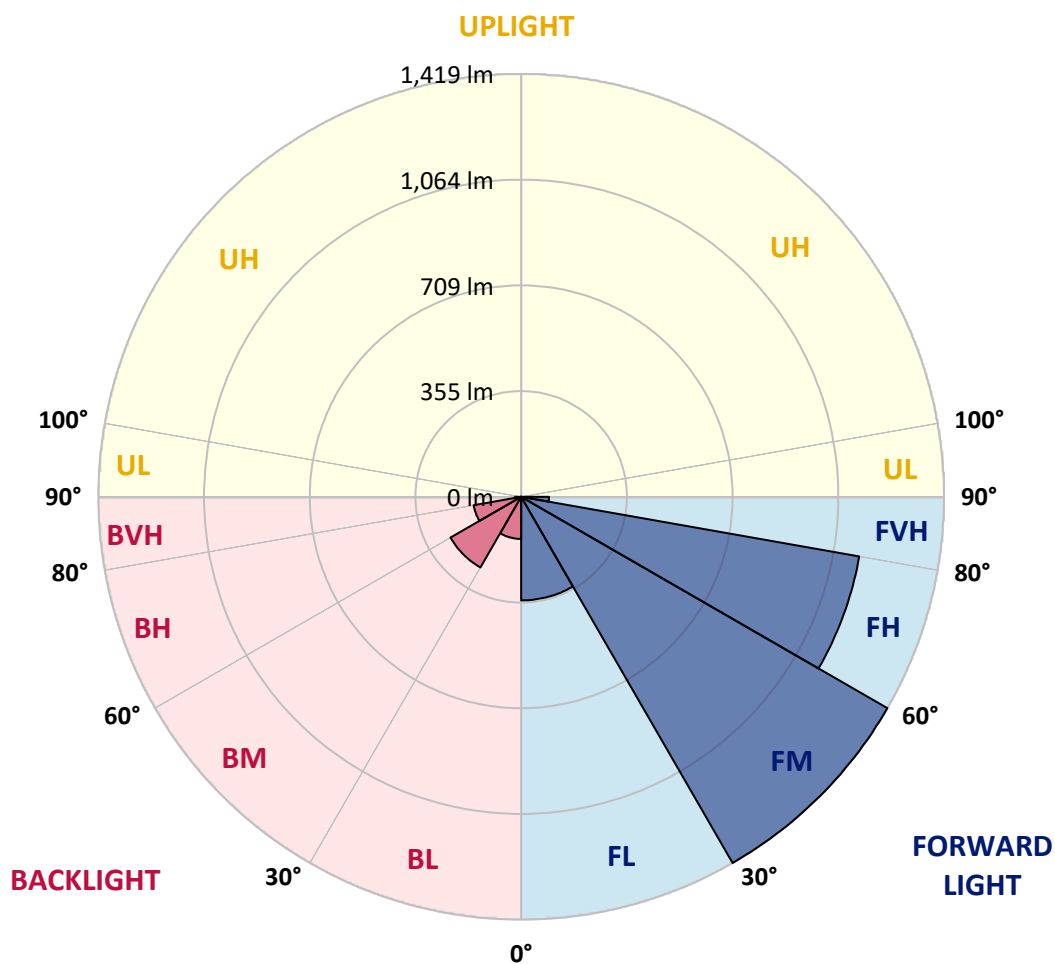
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.5	9.6			
FM	(30°-60°)	1418.7	39.3			
FH	(60°-80°)	1151.9	31.9			G1/1800
FVH	(80°-90°)	93.6	2.6			G1/100
BL	(0°-30°)	141.3	3.9	B1/500		
BM	(30°-60°)	273.6	7.6	B1/1000		
BH	(60°-80°)	161.9	4.5	B1/500		G1/500
BVH	(80°-90°)	20.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



REPORT NUMBER: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1266.9	1241.1	1198.3	1153.6	1126.5	1094.7	1069.9	1048.1	1004.5	995.9	1003.7
5°	1191.3	1139.6	1058.8	977.5	923.3	865.2	820.0	783.6	728.3	718.6	730.3
7.5°	1070.1	1008.2	901.5	797.7	721.2	648.5	599.7	560.9	517.6	499.0	500.1
10°	965.6	895.7	769.6	656.7	594.0	545.0	503.9	464.0	420.2	391.4	383.5
12.5°	907.0	826.7	681.3	580.5	522.4	470.8	426.5	383.9	337.1	307.7	299.4
15°	896.9	809.6	648.1	531.7	458.9	393.6	341.4	293.8	245.6	221.8	216.8
17.5°	940.8	840.2	637.4	488.2	399.2	318.6	254.5	201.4	162.1	150.2	149.2
20°	1024.9	898.9	636.0	447.4	340.2	245.8	177.4	138.7	121.4	118.0	118.2
22.5°	1142.9	990.0	653.1	416.6	286.1	183.3	133.3	116.1	109.3	106.1	106.1
25°	1295.7	1115.4	692.4	394.2	239.1	146.4	117.6	107.3	101.0	98.8	99.2
27.5°	1443.7	1237.4	738.0	376.5	208.3	132.9	111.5	102.2	96.6	94.4	95.4
30°	1559.2	1345.7	776.1	352.5	192.6	129.2	113.7	104.2	96.2	92.8	93.0
32.5°	1654.8	1440.5	808.0	335.3	178.8	110.7	98.0	93.8	92.8	88.9	86.9
35°	1777.0	1543.9	829.5	335.7	172.2	98.8	87.3	80.0	74.6	70.0	70.0
37.5°	1920.2	1662.5	852.3	340.2	169.8	91.9	83.5	76.2	71.2	66.9	66.1
40°	2061.9	1778.8	873.1	344.6	168.4	87.7	80.5	73.8	69.2	64.9	63.7
42.5°	2182.3	1874.4	891.8	346.8	163.7	87.3	78.4	72.2	67.8	63.1	61.9
45°	2271.4	1954.6	911.8	350.2	158.9	88.9	78.4	72.0	66.7	62.1	60.9
47.5°	2350.9	2048.6	945.3	350.2	153.2	85.9	80.9	72.2	66.5	61.7	60.7
50°	2457.5	2177.5	1008.8	342.0	145.0	82.7	85.3	71.4	64.7	60.9	59.7
52.5°	2604.3	2342.8	1109.6	327.9	132.5	76.6	84.7	71.0	62.9	58.9	57.5
55°	2777.9	2519.8	1219.5	311.5	113.9	72.2	81.7	70.0	60.9	56.5	55.2
57.5°	2913.4	2641.6	1296.9	286.1	97.6	69.8	72.4	69.0	58.5	54.0	52.8
60°	2967.3	2636.8	1318.1	252.2	89.7	67.8	63.3	77.4	56.5	52.0	50.6
62.5°	2938.2	2515.0	1258.6	228.3	87.9	65.3	59.3	71.6	55.0	50.6	48.6
65°	2803.5	2299.2	1100.9	222.0	93.0	62.7	56.7	56.1	52.8	48.6	46.6
67.5°	2510.1	1976.6	881.5	222.6	99.6	60.1	54.2	51.4	49.8	46.4	44.6
70°	2044.4	1562.7	657.1	224.2	103.0	57.1	51.4	48.4	46.6	43.2	42.1
72.5°	1503.2	1204.4	477.3	213.9	103.6	53.8	47.6	45.0	43.2	39.7	38.7
75°	1028.5	921.3	331.1	177.2	90.3	49.0	43.4	41.1	39.9	35.5	34.9
77.5°	751.3	691.6	211.9	131.5	69.6	43.1	38.3	36.5	35.7	30.9	30.2
80°	602.9	547.2	132.5	90.1	51.0	36.1	32.1	31.1	30.4	25.6	25.0
82.5°	418.2	366.4	85.1	58.5	38.3	28.0	25.4	25.0	23.8	19.4	18.8
85°	220.6	199.0	54.0	39.9	27.8	19.2	17.7	17.7	17.1	12.9	12.5
87.5°	28.2	45.8	27.4	20.8	15.3	8.5	8.5	8.3	8.9	7.3	6.3
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: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	985.4	994.9	985.8	986.4	996.5	1026.7	1040.4	1051.7	1063.8	1071.7	1075.3
5°	714.2	736.4	744.0	759.8	783.2	821.7	837.0	848.1	855.5	859.8	861.6
7.5°	488.4	501.9	517.0	542.6	593.6	616.2	626.3	623.7	615.4	612.4	609.5
10°	368.2	362.9	360.1	374.2	415.4	438.2	445.4	438.4	433.9	434.9	439.8
12.5°	285.3	276.0	264.7	263.1	290.2	310.7	315.2	315.6	324.0	331.3	342.2
15°	207.9	206.9	201.4	198.0	213.5	230.1	232.1	235.7	243.2	248.6	258.1
17.5°	146.6	152.0	156.3	158.5	170.2	182.1	179.9	178.2	176.8	176.8	181.3
20°	118.2	121.8	127.4	133.7	145.6	154.0	148.6	141.5	136.3	134.7	135.3
22.5°	106.5	109.3	112.5	118.0	128.8	134.5	128.8	123.6	118.4	116.7	116.1
25°	100.6	104.2	107.1	111.3	119.2	123.2	117.6	113.9	110.7	108.5	106.9
27.5°	97.2	100.4	101.2	103.2	109.9	113.5	110.7	109.1	107.1	105.1	103.2
30°	93.6	93.0	91.7	91.9	97.2	100.8	100.6	101.0	100.8	100.2	99.8
32.5°	85.5	84.3	83.1	84.3	89.3	92.5	92.6	93.4	93.4	93.2	94.8
35°	71.2	73.4	74.8	78.4	84.3	87.1	85.9	83.9	80.3	78.2	78.0
37.5°	65.9	66.3	68.6	73.6	80.2	82.7	80.9	76.4	74.0	73.6	74.2
40°	63.3	63.7	65.1	69.6	76.2	78.8	77.2	73.8	71.6	71.4	72.4
42.5°	61.5	61.9	62.7	65.9	71.2	74.4	74.6	72.2	69.6	69.8	70.8
45°	60.5	60.7	60.5	62.1	67.1	70.8	72.4	70.8	68.6	69.0	70.2
47.5°	60.3	59.7	58.9	59.3	64.5	68.2	70.2	69.6	68.6	69.0	70.0
50°	59.5	58.1	57.1	56.9	62.1	66.1	67.8	67.8	68.2	69.0	70.0
52.5°	57.1	55.5	55.5	55.0	60.5	64.3	65.5	65.7	66.3	67.7	69.0
55°	54.2	53.6	54.2	53.2	59.3	62.9	63.5	63.9	64.3	65.5	67.5
57.5°	51.6	50.8	52.2	51.8	58.3	61.5	61.5	62.3	62.3	63.9	65.5
60°	50.2	48.6	49.2	49.6	56.9	60.3	59.9	60.7	61.1	62.5	63.7
62.5°	48.4	47.0	47.0	48.0	55.4	58.5	58.3	58.9	60.5	60.9	62.1
65°	46.2	45.6	45.0	46.2	53.8	56.5	56.7	57.5	58.9	59.3	60.3
67.5°	44.0	44.2	43.1	44.2	52.4	54.6	54.6	56.1	56.7	57.5	58.5
70°	41.7	41.9	40.9	42.3	51.4	52.4	52.2	54.4	54.8	55.4	56.3
72.5°	38.7	38.7	38.3	40.3	49.8	50.2	49.8	51.6	51.8	52.4	52.8
75°	35.5	35.5	35.1	37.9	48.8	47.8	46.6	48.0	48.4	48.8	48.8
77.5°	31.3	31.7	31.7	35.1	45.4	46.8	42.9	43.6	44.2	44.4	43.8
80°	26.2	27.2	27.6	31.9	38.1	43.2	38.3	38.9	39.1	39.1	38.3
82.5°	20.0	21.8	22.8	27.6	29.2	36.3	33.3	33.9	33.3	32.1	31.7
85°	13.9	16.3	17.5	21.0	22.0	28.0	27.8	27.8	26.6	25.0	24.8
87.5°	7.5	8.9	9.7	12.5	15.1	18.8	20.4	19.8	18.8	17.9	18.1
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: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1093.9	1120.9	1164.0	1196.9	1230.0	1262.0	1296.5	1322.9	1345.3	1354.0	1380.6
5°	879.7	913.4	954.1	1027.5	1079.4	1136.8	1203.0	1290.7	1324.5	1371.1	1447.5
7.5°	622.0	652.5	718.0	777.3	850.9	932.0	1021.5	1142.5	1186.8	1261.6	1386.0
10°	464.4	499.9	552.5	602.5	667.4	750.3	853.1	988.4	1042.2	1123.3	1266.5
12.5°	374.2	416.0	471.8	518.8	569.0	627.5	727.3	875.7	947.7	1018.7	1163.6
15°	287.5	331.3	383.1	442.8	498.2	561.2	665.8	828.1	911.0	985.0	1108.6
17.5°	199.0	236.5	301.8	364.0	434.9	515.6	648.7	838.2	937.2	1022.5	1118.1
20°	141.1	162.5	216.0	288.3	376.5	477.9	645.6	891.4	1020.1	1117.5	1179.2
22.5°	118.6	126.6	157.7	224.0	326.0	449.8	656.7	966.0	1132.0	1256.4	1276.6
25°	108.1	112.9	129.2	175.8	280.9	429.3	694.2	1077.1	1270.5	1395.3	1391.7
27.5°	102.4	107.3	118.0	148.4	247.0	416.6	731.7	1208.8	1428.8	1546.1	1501.6
30°	100.6	107.3	118.6	139.9	222.8	396.6	762.4	1324.5	1550.6	1647.8	1551.6
32.5°	99.2	100.2	105.3	120.6	199.8	373.2	783.2	1428.2	1669.9	1744.7	1623.6
35°	80.2	85.1	93.4	108.1	186.3	359.1	783.2	1517.7	1787.3	1842.5	1692.3
37.5°	77.2	81.5	88.9	101.4	178.8	352.1	767.6	1604.0	1907.3	1953.4	1748.8
40°	75.6	79.2	86.1	96.2	175.6	344.2	744.8	1680.2	2024.6	2064.5	1801.6
42.5°	74.4	77.6	84.1	93.0	171.4	335.5	726.3	1741.3	2126.4	2159.3	1852.0
45°	73.8	77.2	84.3	94.6	163.1	324.0	720.2	1807.3	2210.1	2238.5	1906.5
47.5°	73.8	77.8	85.3	98.0	153.2	312.1	739.4	1894.4	2289.2	2303.1	1970.8
50°	73.2	77.6	88.1	94.6	138.7	297.0	784.6	2004.2	2374.9	2376.5	2052.2
52.5°	72.0	77.2	94.8	92.6	122.0	277.2	845.7	2145.0	2501.7	2511.2	2179.5
55°	70.6	76.6	93.0	88.1	108.3	253.5	895.7	2316.2	2679.9	2706.3	2366.8
57.5°	68.8	75.8	90.1	81.7	99.4	223.2	913.8	2441.6	2804.3	2870.5	2577.9
60°	67.3	75.2	81.3	78.0	93.8	197.6	878.9	2416.8	2795.7	2938.6	2765.0
62.5°	65.7	75.8	74.2	75.6	91.3	181.1	787.6	2218.2	2654.3	2868.3	2903.7
65°	63.9	70.4	70.0	73.6	90.7	174.6	652.9	1920.4	2380.9	2646.3	2936.4
67.5°	61.5	65.1	67.1	71.0	92.6	168.8	526.9	1584.2	2001.0	2313.6	2765.8
70°	58.9	61.9	64.1	67.8	91.5	166.3	438.2	1249.3	1587.7	1896.2	2429.1
72.5°	55.5	58.1	60.1	63.7	90.3	164.9	370.2	1006.0	1185.4	1408.6	1975.0
75°	51.6	54.0	55.4	58.9	86.5	151.0	291.0	851.3	887.0	979.9	1573.0
77.5°	47.0	48.8	50.0	54.0	76.6	125.6	210.5	656.7	688.8	711.4	1206.0
80°	41.7	43.4	44.0	47.8	63.5	98.2	137.3	485.1	515.2	520.4	787.6
82.5°	35.5	37.3	37.3	40.9	52.0	70.6	90.1	332.3	338.3	355.7	556.7
85°	28.6	30.0	30.0	31.7	40.3	52.8	61.9	166.8	165.1	188.5	482.3
87.5°	20.4	21.4	22.4	22.8	28.8	34.9	37.3	50.8	33.5	38.5	309.7
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: P194649

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7060-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1400.6	1412.0	1400.4	1392.1	1356.2	1326.6	1287.2	1266.9
5°	1505.6	1534.4	1524.6	1489.7	1414.7	1330.4	1234.6	1191.3
7.5°	1492.9	1559.8	1561.3	1496.1	1385.6	1261.4	1131.6	1070.1
10°	1394.1	1479.6	1504.0	1440.7	1323.5	1184.6	1035.8	965.6
12.5°	1283.8	1367.5	1386.2	1364.3	1266.3	1126.9	975.9	907.0
15°	1193.5	1231.0	1253.2	1272.3	1217.3	1103.9	972.5	896.9
17.5°	1138.6	1134.4	1140.8	1173.9	1183.2	1130.2	1024.1	940.8
20°	1118.7	1055.0	1053.5	1099.1	1167.1	1193.1	1124.9	1024.9
22.5°	1129.6	1026.5	1013.4	1067.5	1175.7	1283.8	1257.0	1142.9
25°	1167.3	1028.9	1018.3	1070.7	1206.6	1380.4	1399.7	1295.7
27.5°	1226.7	1043.9	1030.0	1083.8	1247.7	1461.6	1540.1	1443.7
30°	1283.0	1070.1	1052.9	1109.6	1285.2	1493.7	1626.2	1559.2
32.5°	1351.4	1119.1	1088.8	1157.0	1331.6	1544.9	1703.0	1654.8
35°	1418.5	1189.0	1151.3	1230.2	1383.4	1608.6	1790.7	1777.0
37.5°	1492.1	1280.2	1249.1	1324.9	1454.2	1668.7	1902.6	1920.2
40°	1570.7	1401.2	1364.3	1462.9	1564.1	1744.1	2019.4	2061.9
42.5°	1649.8	1535.6	1491.5	1591.5	1684.9	1818.5	2119.4	2182.3
45°	1740.5	1681.4	1660.5	1768.7	1801.0	1889.3	2193.2	2271.4
47.5°	1846.0	1846.8	1880.4	1923.6	1918.0	1969.4	2267.4	2350.9
50°	1969.2	2053.4	2127.4	2156.1	2038.7	2055.5	2370.4	2457.5
52.5°	2117.2	2300.4	2392.0	2373.2	2168.6	2160.7	2533.5	2604.3
55°	2302.3	2561.8	2652.9	2639.4	2318.0	2303.9	2736.6	2777.9
57.5°	2516.6	2815.2	2898.9	2838.2	2497.4	2461.0	2904.7	2913.4
60°	2704.9	3015.9	3089.4	3022.1	2678.3	2628.3	3009.6	2967.3
62.5°	2809.6	3084.0	3135.6	3063.2	2802.3	2806.4	3032.6	2938.2
65°	2762.8	2912.0	2928.7	2922.7	2770.3	2909.8	2949.9	2803.5
67.5°	2506.5	2477.1	2505.1	2543.8	2496.6	2773.7	2720.7	2510.1
70°	2054.9	1893.6	1949.4	1975.4	1996.8	2386.8	2361.5	2044.4
72.5°	1548.6	1326.6	1370.7	1365.3	1464.5	1914.5	1836.5	1503.2
75°	1097.3	899.5	905.1	902.9	1021.9	1497.9	1329.8	1028.5
77.5°	767.8	651.7	654.7	667.0	687.0	1129.6	950.1	751.3
80°	527.9	494.6	511.1	512.0	476.1	758.8	701.9	602.9
82.5°	393.2	343.8	339.8	345.6	373.2	614.8	539.4	418.2
85°	322.0	203.5	163.7	205.1	330.7	608.9	358.3	220.6
87.5°	181.3	96.6	43.6	80.9	131.9	403.1	103.6	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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