

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: P193059

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193059
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 4280.8 lumens
Efficiency: N/A
Efficacy: 97.3 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 - G2

Input Watts (W): 44
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

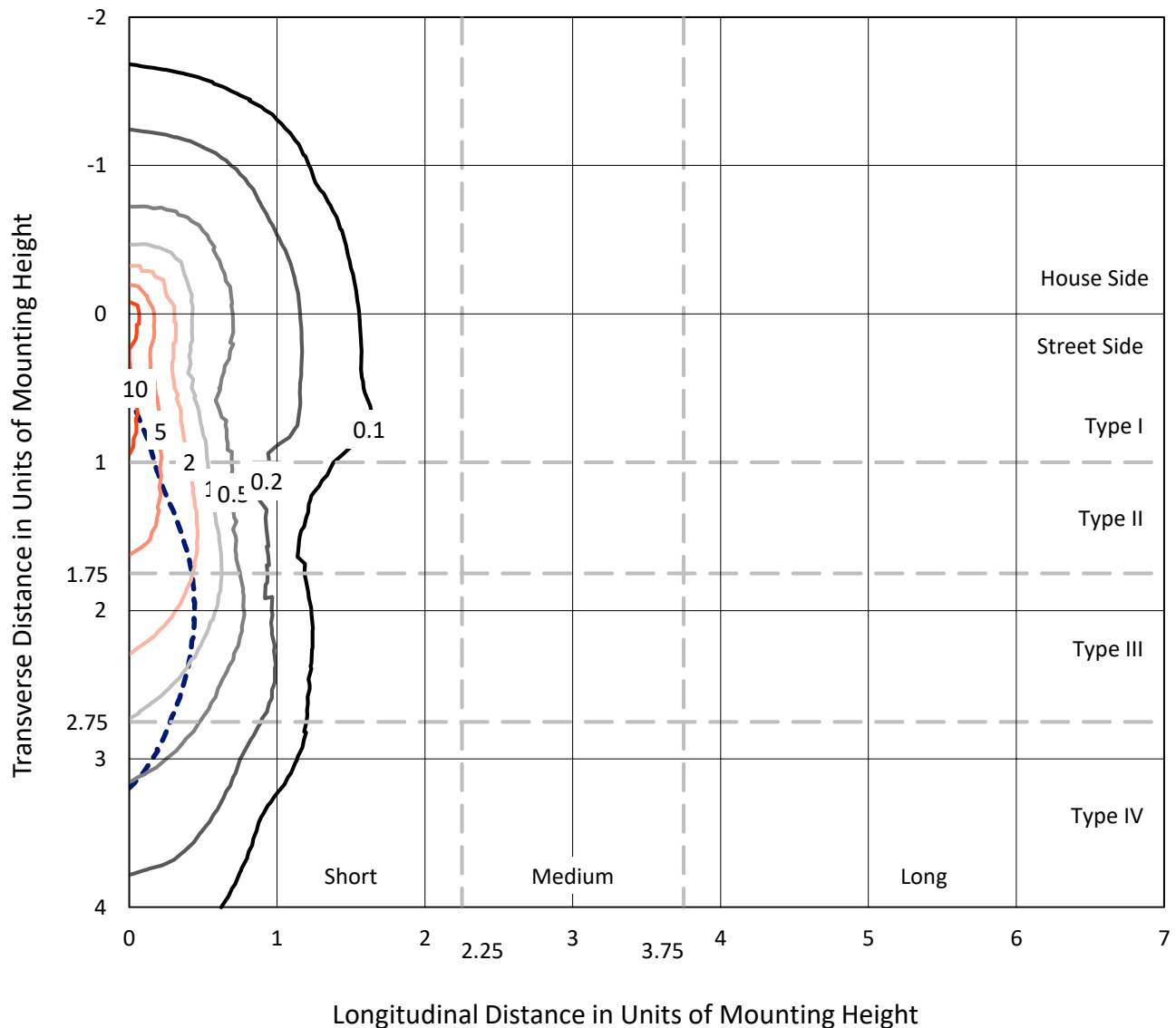


REPORT NUMBER: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

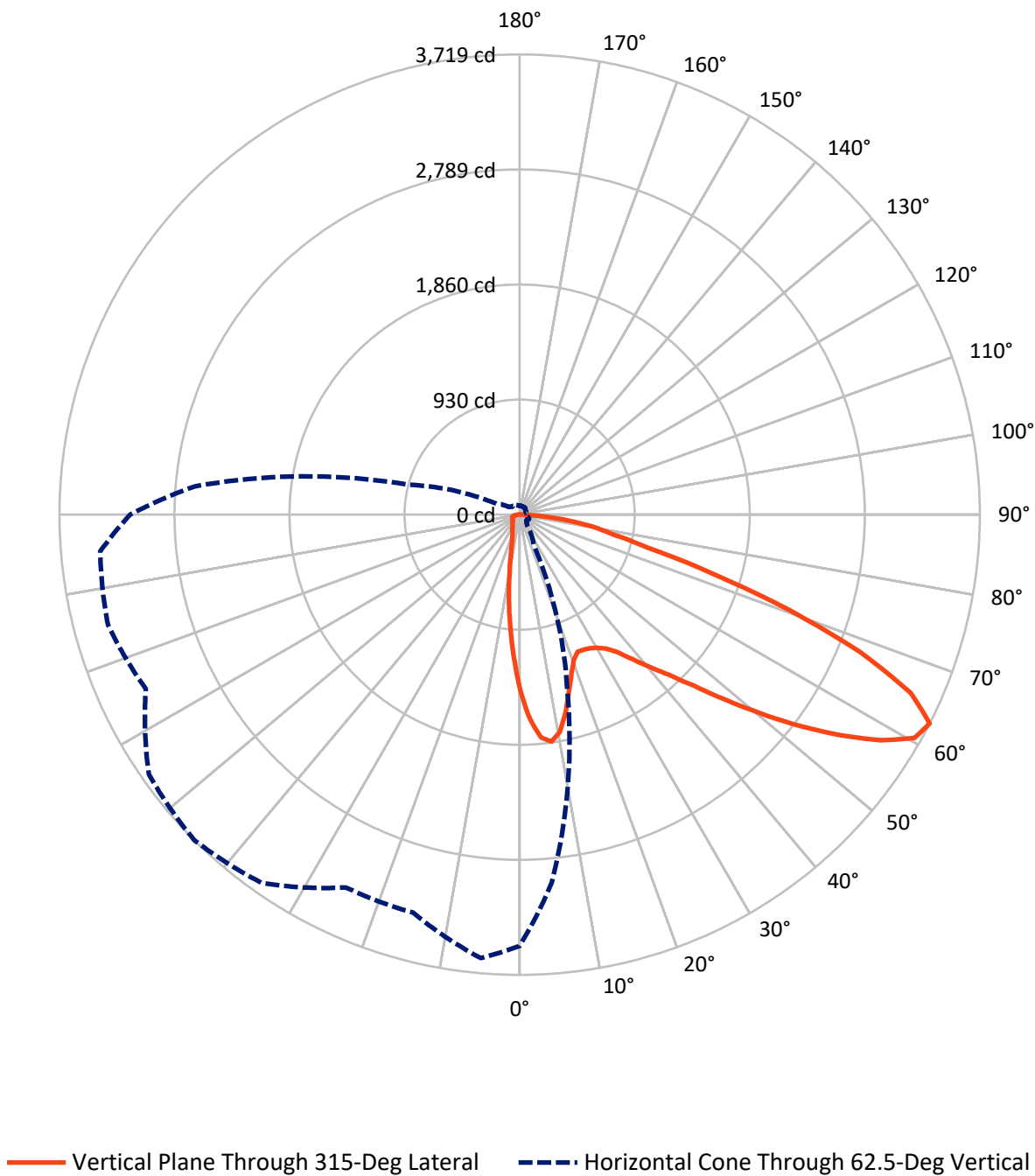


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

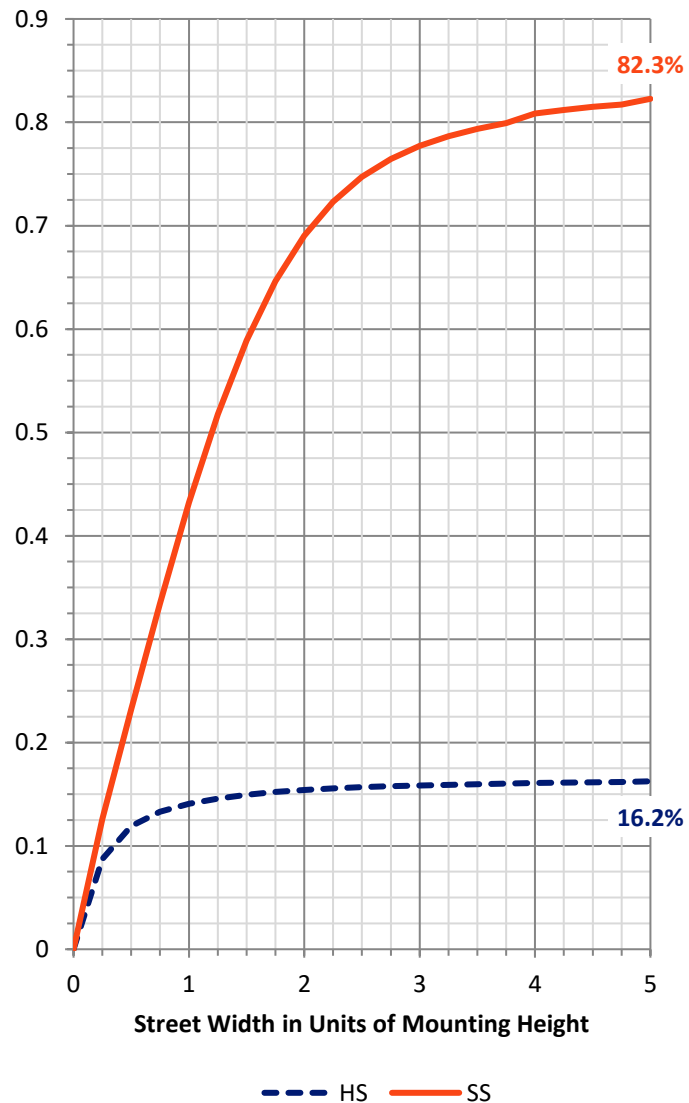
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.4	0.0	708.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3572.4	0.0	3572.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	4280.8	0.0	4280.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	2.5
10°-20°	193.1	4.5
20°-30°	281.5	6.6
30°-40°	433.5	10.1
40°-50°	638.0	14.9
50°-60°	935.9	21.9
60°-70°	1046.1	24.4
70°-80°	512.2	12.0
80°-90°	135.2	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°	4280.8	100.0
0°-180°	4280.8	100.0

Coefficient of Utilization



REPORT NUMBER: P193059

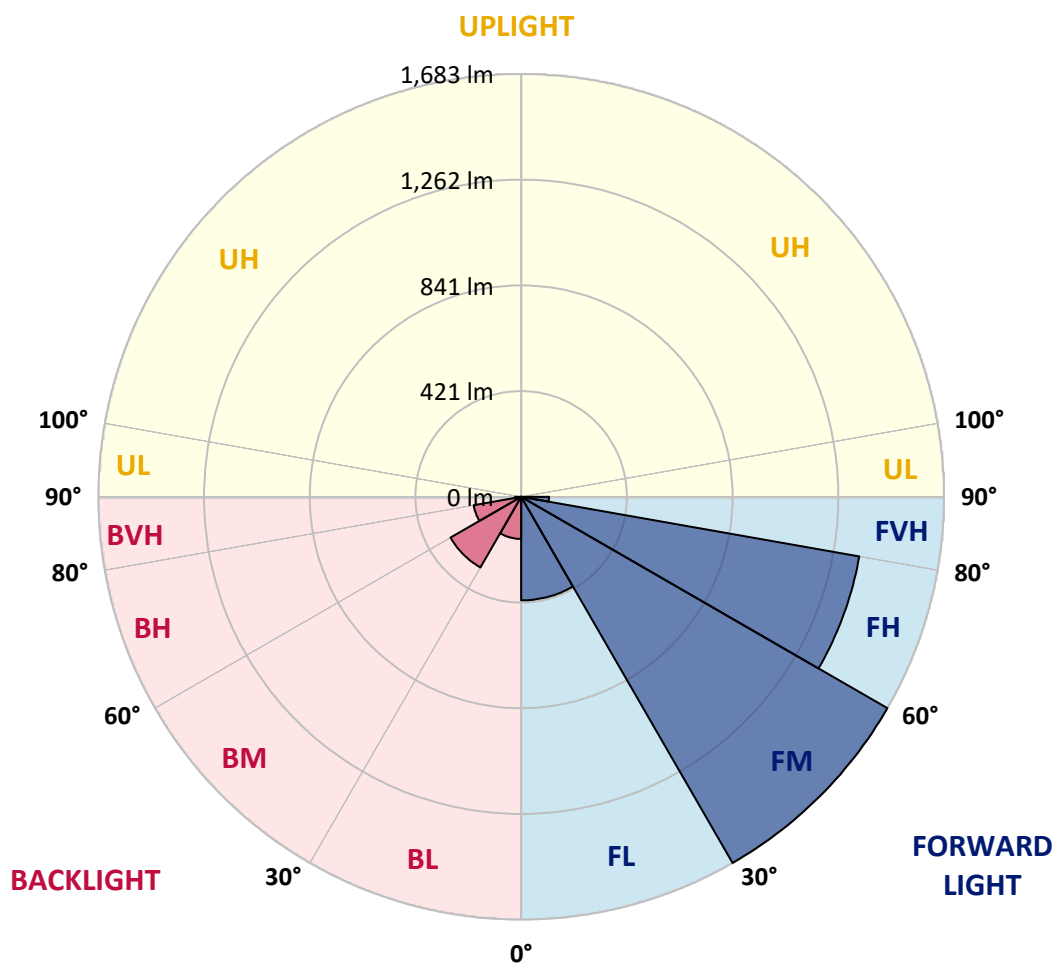
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.2	9.6			
FM	(30°-60°)	1682.8	39.3			
FH	(60°-80°)	1366.3	31.9			G1/1800
FVH	(80°-90°)	111.1	2.6			G2/225
BL	(0°-30°)	167.6	3.9	B1/500		
BM	(30°-60°)	324.6	7.6	B1/1000		
BH	(60°-80°)	192.0	4.5	B1/500		G1/500
BVH	(80°-90°)	24.2	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-G2

Type IV Short



REPORT NUMBER: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1502.8	1472.2	1421.4	1368.4	1336.1	1298.5	1269.0	1243.2	1191.5	1181.3	1190.5
5°	1413.0	1351.6	1255.9	1159.5	1095.3	1026.3	972.6	929.5	863.9	852.3	866.2
7.5°	1269.3	1195.9	1069.3	946.1	855.4	769.3	711.4	665.3	613.9	591.8	593.3
10°	1145.2	1062.4	912.9	778.9	704.5	646.4	597.7	550.4	498.4	464.3	454.8
12.5°	1075.8	980.6	808.1	688.6	619.6	558.5	506.0	455.4	399.8	365.0	355.1
15°	1063.8	960.4	768.7	630.7	544.3	466.9	405.1	348.5	291.2	263.1	257.2
17.5°	1115.9	996.6	756.1	579.1	473.4	377.9	301.9	238.8	192.3	178.1	177.0
20°	1215.6	1066.3	754.4	530.7	403.6	291.6	210.4	164.4	144.0	140.0	140.3
22.5°	1355.7	1174.2	774.6	494.2	339.4	217.4	158.1	137.6	129.7	125.8	125.8
25°	1536.8	1323.0	821.3	467.6	283.5	173.6	139.6	127.3	119.7	117.2	117.7
27.5°	1712.4	1467.7	875.3	446.7	247.0	157.7	132.2	121.2	114.6	112.0	113.2
30°	1849.4	1596.2	920.6	418.1	228.5	153.2	134.8	123.6	114.1	110.2	110.4
32.5°	1962.9	1708.7	958.4	397.7	212.1	131.3	116.3	111.3	110.2	105.4	103.0
35°	2107.7	1831.3	983.9	398.1	204.2	117.2	103.6	94.8	88.5	83.0	83.0
37.5°	2277.6	1972.0	1010.9	403.6	201.5	108.9	99.1	90.3	84.4	79.3	78.3
40°	2445.7	2109.9	1035.7	408.7	199.8	104.1	95.5	87.5	82.2	76.9	75.5
42.5°	2588.6	2223.3	1057.7	411.4	194.2	103.6	93.0	85.7	80.6	74.9	73.4
45°	2694.3	2318.4	1081.5	415.3	188.5	105.4	93.0	85.4	79.1	73.6	72.2
47.5°	2788.6	2429.9	1121.3	415.3	181.7	101.9	96.0	85.7	78.8	73.2	72.0
50°	2914.9	2582.9	1196.6	405.7	172.0	98.2	101.2	84.6	76.7	72.2	70.8
52.5°	3089.1	2778.9	1316.1	389.0	157.3	90.8	100.5	84.2	74.7	69.9	68.3
55°	3294.9	2988.8	1446.5	369.4	135.1	85.7	96.9	83.0	72.2	67.0	65.4
57.5°	3455.7	3133.3	1538.3	339.4	115.9	82.8	85.9	82.0	69.4	64.0	62.6
60°	3519.7	3127.6	1563.5	299.1	106.4	80.6	75.1	91.8	67.0	61.6	60.0
62.5°	3485.1	2983.1	1492.9	270.9	104.3	77.5	70.4	85.0	65.2	60.0	57.7
65°	3325.3	2727.1	1305.7	263.4	110.4	74.4	67.3	66.6	62.6	57.7	55.2
67.5°	2977.4	2344.4	1045.5	264.1	118.1	71.3	64.3	60.9	59.1	55.0	53.0
70°	2425.0	1853.6	779.3	265.9	122.2	67.7	60.9	57.5	55.2	51.4	49.9
72.5°	1783.0	1428.7	566.2	253.7	122.8	63.8	56.5	53.4	51.4	47.1	45.9
75°	1219.9	1092.8	392.8	210.1	107.1	58.1	51.6	48.7	47.3	42.2	41.4
77.5°	891.1	820.3	251.3	156.0	82.6	51.1	45.5	43.2	42.4	36.7	35.7
80°	715.1	649.0	157.3	106.8	60.5	42.8	38.1	36.9	36.0	30.4	29.6
82.5°	496.0	434.7	100.9	69.4	45.5	33.3	30.1	29.6	28.2	23.1	22.4
85°	261.6	236.0	64.0	47.3	33.0	22.8	21.0	21.0	20.2	15.3	14.9
87.5°	33.5	54.4	32.4	24.7	18.1	10.2	10.2	9.9	10.6	8.7	7.5
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: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1168.8	1180.1	1169.3	1170.0	1181.9	1217.8	1234.0	1247.4	1261.8	1271.2	1275.4
5°	847.2	873.5	882.5	901.3	929.0	974.7	992.8	1006.0	1014.7	1019.8	1022.0
7.5°	579.4	595.4	613.3	643.6	704.0	731.0	742.9	739.8	730.0	726.5	722.9
10°	436.7	430.4	427.1	443.8	492.8	519.8	528.3	520.1	514.6	515.8	521.7
12.5°	338.3	327.3	313.9	312.1	344.2	368.5	373.8	374.4	384.3	393.0	405.9
15°	246.6	245.4	238.8	234.8	253.2	272.9	275.4	279.6	288.6	294.9	306.2
17.5°	173.9	180.3	185.4	188.0	201.9	216.0	213.4	211.3	209.7	209.7	215.1
20°	140.3	144.4	151.1	158.7	172.7	182.6	176.2	167.8	161.7	159.7	160.5
22.5°	126.4	129.7	133.4	140.0	152.8	159.5	152.8	146.6	140.5	138.3	137.6
25°	119.3	123.6	127.1	131.9	141.4	146.1	139.6	135.1	131.3	128.7	126.8
27.5°	115.3	119.1	119.9	122.4	130.3	134.6	131.3	129.5	127.1	124.8	122.4
30°	111.1	110.4	108.7	108.9	115.3	119.5	119.3	119.7	119.5	118.9	118.3
32.5°	101.4	100.0	98.6	100.0	105.9	109.7	110.0	110.8	110.8	110.6	112.5
35°	84.4	87.1	88.7	93.0	100.0	103.4	101.9	99.5	95.3	92.8	92.5
37.5°	78.1	78.5	81.4	87.3	95.0	98.2	96.0	90.5	87.7	87.3	88.1
40°	75.1	75.5	77.1	82.6	90.3	93.4	91.6	87.5	85.0	84.6	85.9
42.5°	72.9	73.4	74.4	78.1	84.4	88.3	88.5	85.7	82.6	82.8	84.0
45°	71.8	72.0	71.8	73.6	79.5	84.0	85.9	84.0	81.4	82.0	83.2
47.5°	71.6	70.8	69.9	70.4	76.5	81.0	83.2	82.6	81.4	82.0	83.0
50°	70.6	69.0	67.7	67.5	73.6	78.3	80.6	80.6	81.0	82.0	83.0
52.5°	67.7	65.9	65.9	65.2	71.8	76.3	77.7	77.9	78.5	80.2	82.0
55°	64.3	63.6	64.3	63.1	70.4	74.7	75.3	75.8	76.3	77.7	80.0
57.5°	61.1	60.2	61.8	61.4	69.2	72.9	72.9	73.9	73.9	75.8	77.7
60°	59.5	57.7	58.4	58.8	67.5	71.6	71.0	72.0	72.4	74.1	75.5
62.5°	57.5	55.7	55.7	57.0	65.7	69.4	69.2	69.9	71.8	72.2	73.6
65°	54.8	54.1	53.4	54.8	63.8	67.0	67.3	68.3	69.9	70.4	71.6
67.5°	52.2	52.5	51.1	52.5	62.2	64.7	64.7	66.6	67.3	68.3	69.4
70°	49.3	49.6	48.5	50.1	60.9	62.2	61.8	64.5	64.9	65.7	66.8
72.5°	45.9	45.9	45.5	47.7	59.1	59.5	59.1	61.1	61.4	62.2	62.6
75°	42.2	42.2	41.6	44.9	57.9	56.7	55.2	57.0	57.5	57.9	57.9
77.5°	37.1	37.7	37.7	41.6	53.9	55.5	50.8	51.8	52.5	52.7	52.0
80°	31.0	32.2	32.7	37.9	45.3	51.4	45.5	46.1	46.3	46.3	45.5
82.5°	23.8	25.9	27.1	32.7	34.6	43.0	39.6	40.2	39.6	38.1	37.7
85°	16.5	19.3	20.8	24.9	26.1	33.3	33.0	33.0	31.5	29.6	29.4
87.5°	9.0	10.6	11.6	14.9	17.9	22.4	24.2	23.5	22.4	21.2	21.5
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: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1297.6	1329.5	1380.6	1419.8	1458.9	1496.9	1537.9	1569.1	1595.7	1606.1	1637.6
5°	1043.4	1083.5	1131.7	1218.7	1280.4	1348.4	1427.0	1530.9	1571.0	1626.4	1716.9
7.5°	737.7	774.0	851.6	921.9	1009.3	1105.4	1211.6	1355.3	1407.7	1496.5	1644.0
10°	550.8	593.1	655.3	714.7	791.6	890.0	1011.8	1172.4	1236.2	1332.4	1502.4
12.5°	443.8	493.5	559.6	615.3	674.9	744.3	862.7	1038.7	1124.2	1208.4	1380.2
15°	341.0	393.0	454.4	525.2	590.9	665.7	789.7	982.2	1080.6	1168.4	1314.9
17.5°	236.0	280.5	358.0	431.8	515.8	611.7	769.5	994.3	1111.6	1212.9	1326.3
20°	167.2	192.8	256.2	341.9	446.7	566.8	765.7	1057.3	1210.0	1325.6	1398.7
22.5°	140.7	150.1	187.1	265.7	386.7	533.5	778.9	1145.8	1342.7	1490.3	1514.4
25°	128.3	133.9	153.2	208.4	333.2	509.2	823.4	1277.6	1507.0	1655.1	1650.8
27.5°	121.4	127.3	140.0	176.0	293.0	494.2	867.8	1433.8	1694.8	1833.8	1781.2
30°	119.3	127.3	140.7	165.8	264.3	470.4	904.3	1571.0	1839.3	1954.5	1840.5
32.5°	117.7	118.9	125.0	143.0	237.0	442.6	929.0	1694.1	1980.7	2069.4	1925.9
35°	95.0	100.9	110.8	128.3	220.9	425.9	929.0	1800.1	2119.9	2185.4	2007.3
37.5°	91.6	96.7	105.4	120.3	212.1	417.7	910.4	1902.5	2262.3	2317.0	2074.4
40°	89.7	93.9	102.1	114.1	208.2	408.3	883.4	1992.9	2401.4	2448.7	2136.9
42.5°	88.3	92.0	99.8	110.4	203.3	397.9	861.5	2065.4	2522.1	2561.2	2196.7
45°	87.5	91.6	100.0	112.2	193.4	384.3	854.2	2143.7	2621.4	2655.1	2261.4
47.5°	87.5	92.3	101.2	116.3	181.7	370.2	877.1	2247.0	2715.3	2731.8	2337.7
50°	86.9	92.0	104.5	112.2	164.4	352.3	930.7	2377.2	2817.0	2818.9	2434.2
52.5°	85.4	91.6	112.5	110.0	144.8	328.8	1003.2	2544.3	2967.4	2978.7	2585.2
55°	83.8	90.8	110.4	104.5	128.5	300.8	1062.4	2747.4	3178.7	3210.0	2807.4
57.5°	81.6	89.9	106.8	96.9	117.9	264.7	1083.9	2896.1	3326.3	3404.8	3057.7
60°	79.8	89.1	96.4	92.5	111.3	234.4	1042.5	2866.6	3316.1	3485.6	3279.6
62.5°	77.9	89.9	88.1	89.7	108.2	214.8	934.1	2631.1	3148.3	3402.3	3444.2
65°	75.8	83.6	83.0	87.3	107.5	207.0	774.4	2277.9	2824.1	3138.9	3482.9
67.5°	72.9	77.1	79.5	84.2	110.0	200.3	625.0	1879.0	2373.4	2744.3	3280.6
70°	69.9	73.4	76.1	80.6	108.5	197.2	519.8	1481.8	1883.3	2249.2	2881.2
72.5°	65.9	69.0	71.3	75.5	107.1	195.6	439.1	1193.3	1406.0	1670.8	2342.6
75°	61.1	64.0	65.7	69.9	102.6	179.0	345.3	1009.8	1052.1	1162.3	1865.8
77.5°	55.7	57.9	59.3	64.0	90.8	148.9	249.6	778.9	817.0	843.8	1430.5
80°	49.3	51.6	52.2	56.7	75.3	116.5	162.8	575.4	611.1	617.2	934.1
82.5°	42.2	44.2	44.2	48.5	61.6	83.8	106.8	394.2	401.2	422.0	660.3
85°	33.9	35.5	35.5	37.7	47.7	62.6	73.4	197.9	195.8	223.6	572.1
87.5°	24.2	25.4	26.6	27.1	34.1	41.4	44.2	60.2	39.8	45.7	367.3
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: P193059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1661.4	1674.7	1661.2	1651.2	1608.7	1573.6	1526.8	1502.8
5°	1785.9	1819.9	1808.5	1767.0	1678.1	1578.0	1464.4	1413.0
7.5°	1770.8	1850.1	1852.0	1774.6	1643.5	1496.2	1342.2	1269.3
10°	1653.6	1755.0	1783.9	1709.0	1569.8	1405.1	1228.6	1145.2
12.5°	1522.7	1622.1	1644.2	1618.3	1502.1	1336.6	1157.5	1075.8
15°	1415.7	1460.1	1486.5	1509.1	1444.0	1309.4	1153.6	1063.8
17.5°	1350.6	1345.5	1353.0	1392.4	1403.4	1340.6	1214.8	1115.9
20°	1327.0	1251.4	1249.6	1303.7	1384.5	1415.2	1334.3	1215.6
22.5°	1339.9	1217.5	1202.0	1266.2	1394.4	1522.7	1491.0	1355.7
25°	1384.7	1220.3	1207.9	1270.0	1431.2	1637.4	1660.2	1536.8
27.5°	1455.0	1238.2	1221.7	1285.6	1479.9	1733.6	1826.9	1712.4
30°	1521.8	1269.3	1248.9	1316.1	1524.3	1771.7	1929.0	1849.4
32.5°	1603.1	1327.4	1291.5	1372.4	1579.5	1832.4	2019.9	1962.9
35°	1682.6	1410.3	1365.5	1459.2	1640.8	1908.0	2124.0	2107.7
37.5°	1769.9	1518.4	1481.5	1571.4	1724.8	1979.2	2256.8	2277.6
40°	1863.0	1662.1	1618.3	1735.2	1855.2	2068.8	2395.3	2445.7
42.5°	1957.0	1821.4	1769.1	1887.8	1998.6	2157.0	2513.9	2588.6
45°	2064.5	1994.3	1969.6	2097.9	2136.2	2240.9	2601.5	2694.3
47.5°	2189.7	2190.6	2230.4	2281.7	2275.1	2336.1	2689.5	2788.6
50°	2335.8	2435.6	2523.4	2557.4	2418.1	2438.1	2811.6	2914.9
52.5°	2511.4	2728.5	2837.3	2814.8	2572.3	2562.9	3005.0	3089.1
55°	2730.9	3038.7	3146.6	3130.8	2749.5	2732.8	3246.0	3294.9
57.5°	2985.1	3339.2	3438.5	3366.5	2962.2	2919.2	3445.3	3455.7
60°	3208.4	3577.3	3664.4	3584.6	3176.8	3117.5	3569.8	3519.7
62.5°	3332.6	3658.0	3719.1	3633.3	3323.8	3328.8	3597.2	3485.1
65°	3277.1	3454.0	3473.8	3466.7	3286.0	3451.4	3499.0	3325.3
67.5°	2973.1	2938.2	2971.5	3017.3	2961.3	3290.1	3227.2	2977.4
70°	2437.5	2246.2	2312.3	2343.1	2368.5	2831.1	2801.0	2425.0
72.5°	1836.8	1573.6	1625.8	1619.4	1737.1	2270.9	2178.4	1783.0
75°	1301.6	1066.9	1073.6	1071.0	1212.1	1776.7	1577.3	1219.9
77.5°	910.6	773.0	776.5	791.1	815.0	1339.9	1126.9	891.1
80°	626.2	586.6	606.2	607.4	564.8	900.1	832.5	715.1
82.5°	466.4	407.7	403.0	409.9	442.6	729.3	639.8	496.0
85°	382.0	241.5	194.2	243.3	392.2	722.2	425.0	261.6
87.5°	215.1	114.6	51.8	96.0	156.5	478.1	122.8	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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