

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: P269010

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269010
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-SLL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135.8 lumens
Efficiency: N/A
Efficacy: 92.2 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

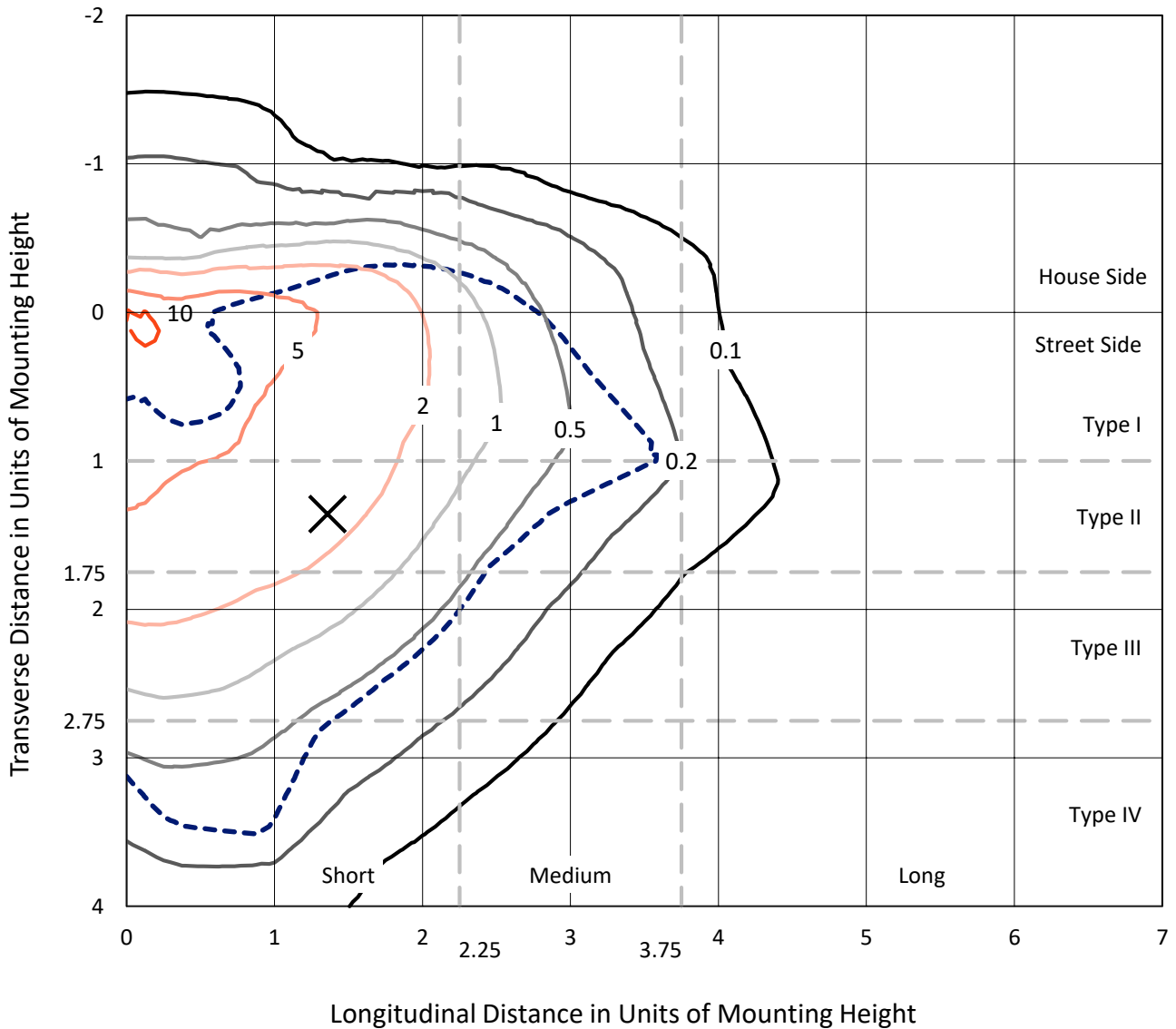
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

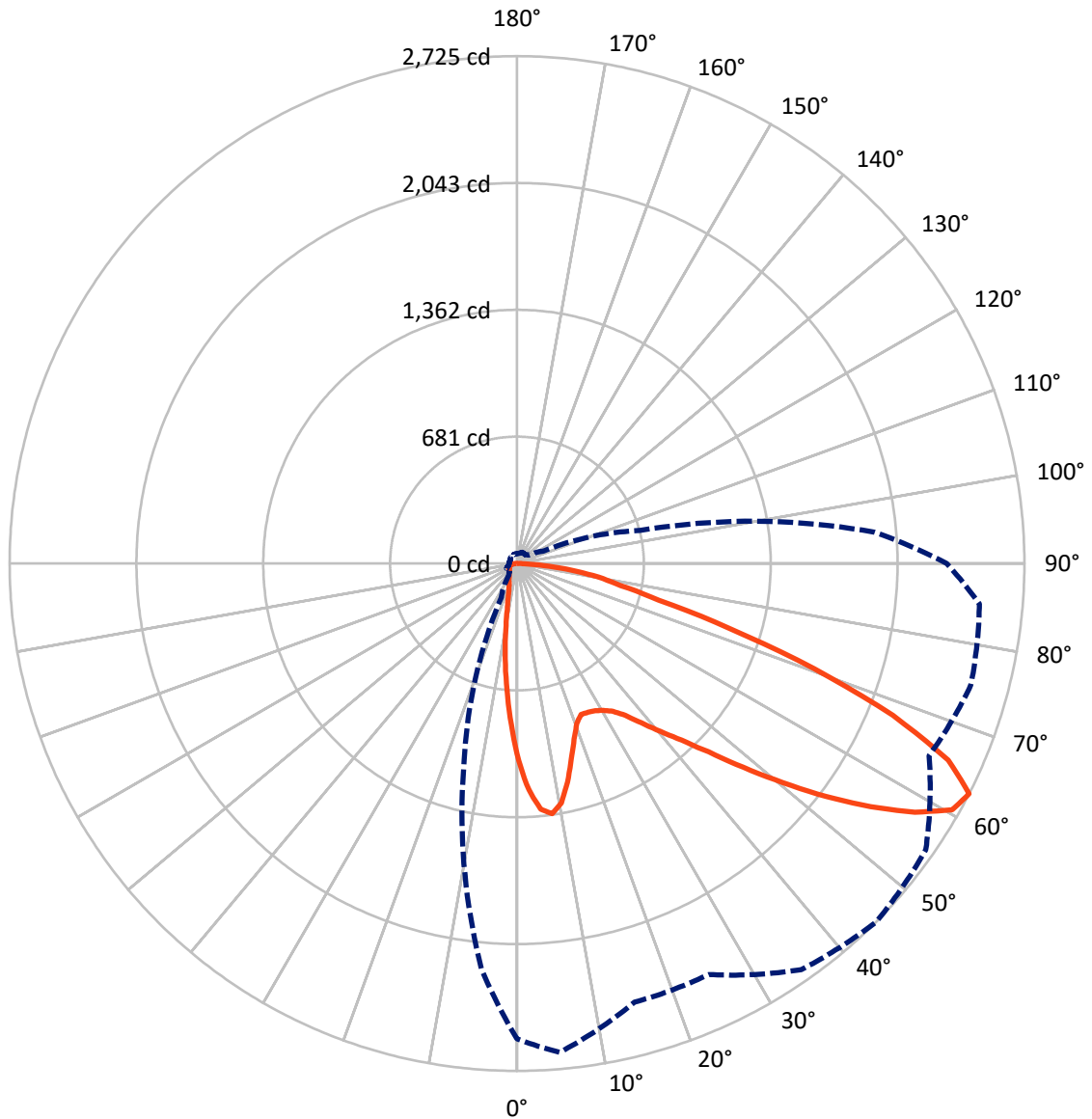
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.9	0.0	518.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2616.9	0.0	2616.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	3135.8	0.0	3135.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	2.5
10°-20°	141.4	4.5
20°-30°	206.2	6.6
30°-40°	317.6	10.1
40°-50°	467.4	14.9
50°-60°	685.5	21.9
60°-70°	766.3	24.4
70°-80°	375.2	12.0
80°-90°	99.1	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°	3135.8	100.0
0°-180°	3135.8	100.0



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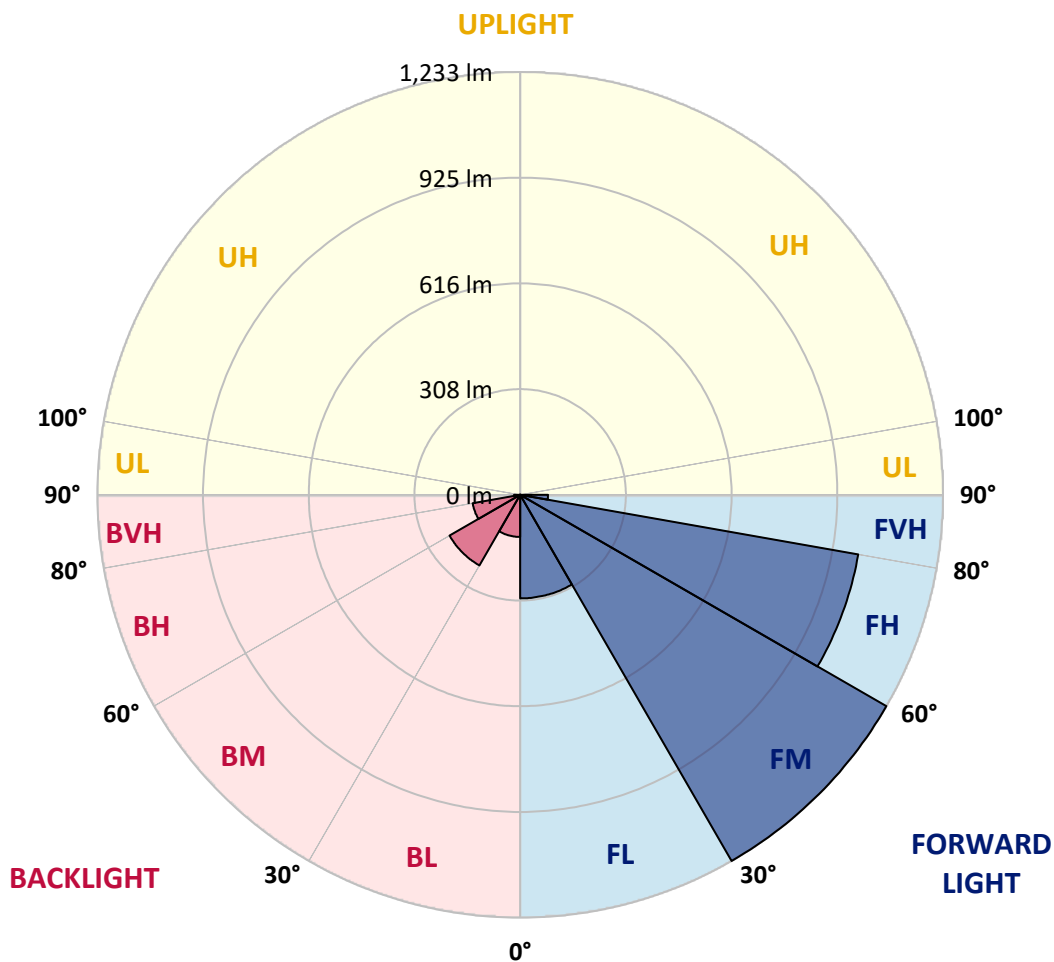
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.0	9.6			
FM	(30°-60°)	1232.7	39.3			
FH	(60°-80°)	1000.8	31.9			G1/1800
FVH	(80°-90°)	81.4	2.6			G1/100
BL	(0°-30°)	122.8	3.9	B1/500		
BM	(30°-60°)	237.8	7.6	B1/1000		
BH	(60°-80°)	140.7	4.5	B1/500		G1/500
BVH	(80°-90°)	17.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1100.9	1118.4	1152.7	1178.3	1209.6	1216.8	1226.8	1217.1	1199.5	1176.5	1169.0
5°	1035.1	1072.8	1155.9	1229.2	1294.4	1324.7	1333.2	1308.2	1257.6	1191.3	1150.8
7.5°	929.8	983.3	1096.0	1203.9	1299.9	1356.6	1355.3	1297.2	1204.3	1096.2	1031.2
10°	838.9	900.0	1029.3	1150.0	1251.9	1306.9	1285.7	1211.4	1100.5	976.0	905.5
12.5°	788.2	847.9	979.2	1100.3	1185.5	1204.4	1188.2	1115.4	1011.0	885.2	823.4
15°	779.3	845.0	959.1	1057.8	1105.5	1088.9	1069.6	1037.1	963.3	855.8	791.5
17.5°	817.5	889.9	982.0	1028.1	1019.9	991.2	985.7	989.4	971.5	888.5	814.4
20°	890.5	977.4	1036.7	1014.1	955.0	915.4	916.7	972.1	1024.6	971.0	886.4
22.5°	993.0	1092.2	1115.4	1021.6	927.6	880.5	891.8	981.6	1109.2	1091.7	983.6
25°	1125.8	1216.1	1199.4	1048.4	930.4	884.8	894.0	1014.2	1209.3	1212.4	1103.9
27.5°	1254.5	1338.1	1269.9	1084.2	941.8	895.0	907.1	1065.7	1304.8	1343.3	1241.5
30°	1354.7	1413.0	1297.8	1116.8	964.2	914.8	929.8	1114.7	1348.1	1431.8	1347.4
32.5°	1437.8	1479.7	1342.3	1157.0	1005.4	946.0	972.3	1174.3	1410.8	1515.9	1450.9
35°	1543.9	1556.0	1397.7	1202.0	1069.0	1000.4	1033.1	1232.6	1470.4	1600.9	1553.0
37.5°	1668.5	1653.2	1450.0	1263.6	1151.2	1085.3	1112.5	1296.4	1519.6	1697.3	1657.3
40°	1791.6	1754.7	1515.4	1359.0	1271.1	1185.5	1217.6	1364.7	1565.3	1793.7	1759.2
42.5°	1896.2	1841.5	1580.1	1464.1	1382.9	1296.0	1334.3	1433.5	1609.1	1876.2	1847.5
45°	1973.5	1905.7	1641.7	1564.8	1536.8	1442.9	1461.0	1512.2	1656.6	1945.0	1920.3
47.5°	2042.7	1970.2	1711.2	1666.5	1671.3	1633.8	1604.7	1604.1	1712.3	2001.2	1989.0
50°	2135.4	2059.6	1786.0	1771.4	1873.4	1848.4	1784.2	1711.0	1783.1	2064.9	2063.5
52.5°	2262.8	2201.2	1877.4	1884.3	2062.0	2078.4	1998.8	1839.6	1893.7	2182.1	2173.7
55°	2413.7	2377.9	2001.9	2014.1	2293.4	2305.1	2226.0	2000.4	2056.5	2351.5	2328.5
57.5°	2531.5	2523.8	2138.3	2169.9	2466.0	2518.8	2446.1	2186.7	2240.0	2494.1	2436.7
60°	2578.2	2615.1	2283.8	2327.1	2625.8	2684.3	2620.5	2350.2	2402.4	2553.3	2429.1
62.5°	2553.0	2635.0	2438.4	2434.9	2661.6	2724.5	2679.6	2441.2	2523.0	2492.3	2306.3
65°	2435.9	2563.1	2528.3	2407.1	2539.5	2544.7	2530.2	2400.6	2551.5	2299.4	2068.7
67.5°	2180.9	2364.0	2410.1	2169.2	2210.3	2176.7	2152.3	2177.9	2403.1	2010.2	1738.6
70°	1776.4	2051.9	2073.8	1735.0	1716.4	1693.8	1645.3	1785.6	2110.7	1647.6	1379.5
72.5°	1306.1	1595.7	1663.5	1272.4	1186.3	1191.1	1152.7	1345.7	1716.0	1223.9	1029.9
75°	893.6	1155.5	1301.5	888.0	784.5	786.3	781.5	953.5	1366.9	851.5	770.7
77.5°	652.8	825.5	981.6	597.0	579.5	568.8	566.3	667.1	1048.0	618.2	598.5
80°	523.9	609.9	659.4	413.7	444.9	444.0	429.7	458.8	684.4	452.1	447.6
82.5°	363.4	468.6	534.2	324.3	300.4	295.4	298.7	341.6	483.6	309.0	293.9
85°	191.7	311.4	529.0	287.4	178.3	142.2	176.8	279.8	419.1	163.9	143.4
87.5°	24.4	90.0	350.2	114.7	70.3	37.9	83.9	157.6	269.1	33.4	29.1
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°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1149.4	1126.6	1096.6	1068.8	1040.0	1011.3	973.9	950.4	934.2	931.3	924.3
5°	1121.5	1045.3	987.7	937.9	892.7	829.0	793.7	764.4	748.6	747.1	743.3
7.5°	992.7	887.5	809.8	739.3	675.3	623.9	567.0	540.4	529.6	532.2	534.8
10°	858.8	741.2	651.9	579.9	523.5	480.1	434.4	403.6	382.1	377.8	377.0
12.5°	760.9	632.0	545.2	494.3	450.8	409.9	361.5	325.0	297.3	287.8	281.4
15°	719.5	578.5	487.7	432.9	384.7	332.8	287.8	249.8	224.2	216.0	211.3
17.5°	728.3	563.6	448.1	377.8	316.4	262.1	205.5	173.0	157.6	153.6	153.6
20°	774.5	560.9	415.2	327.3	250.4	187.7	141.2	122.6	117.6	117.0	118.4
22.5°	839.3	570.6	390.9	283.2	194.7	137.0	110.0	103.0	100.8	101.4	102.9
25°	935.9	603.1	373.1	244.1	152.7	112.2	98.1	94.0	93.0	94.3	96.2
27.5°	1050.3	635.7	361.9	214.7	128.9	102.5	93.2	88.9	89.7	91.4	93.1
30°	1150.8	662.5	344.6	193.6	121.5	103.0	93.2	87.3	86.6	87.0	87.6
32.5°	1241.0	680.6	324.3	173.6	104.8	91.5	87.0	86.1	82.5	80.9	81.1
35°	1318.7	680.6	312.0	161.9	94.0	81.1	73.9	69.7	67.7	67.9	69.8
37.5°	1393.7	666.9	306.0	155.2	88.0	77.3	70.8	67.1	64.5	64.0	64.3
40°	1459.8	647.0	299.0	152.5	83.6	74.7	68.8	65.7	62.9	62.1	62.3
42.5°	1512.9	631.1	291.5	148.8	80.8	73.1	67.5	64.7	61.5	60.6	60.5
45°	1570.3	625.7	281.4	141.8	82.3	73.2	67.1	64.0	61.1	59.9	59.6
47.5°	1646.1	642.5	271.2	133.0	85.2	74.1	67.6	64.0	60.8	59.9	59.6
50°	1741.4	681.8	258.1	120.6	82.3	76.5	67.5	63.6	60.8	59.9	59.3
52.5°	1863.8	734.9	240.8	106.0	80.5	82.5	67.1	62.6	59.9	58.7	57.6
55°	2012.6	778.3	220.4	94.1	76.5	80.8	66.6	61.4	58.6	57.0	55.9
57.5°	2121.4	794.0	193.9	86.3	71.1	78.2	65.8	59.7	57.0	55.5	54.1
60°	2100.0	763.6	171.7	81.6	67.7	70.6	65.3	58.4	55.3	54.3	53.1
62.5°	1927.5	684.4	157.5	79.3	65.7	64.5	65.8	57.0	54.0	52.9	52.6
65°	1668.6	567.3	151.8	78.8	64.0	60.8	61.2	55.5	52.5	51.6	51.3
67.5°	1376.5	457.9	146.8	80.5	61.8	58.3	56.6	53.4	50.8	49.9	49.2
70°	1085.5	380.8	144.4	79.5	59.0	55.7	53.8	51.3	49.0	48.1	47.6
72.5°	874.1	321.7	143.3	78.4	55.3	52.2	50.6	48.2	45.9	45.5	44.9
75°	739.7	253.0	131.2	75.2	51.3	48.1	46.9	44.8	42.4	42.4	42.1
77.5°	570.6	182.8	109.1	66.6	46.9	43.5	42.4	40.9	38.1	38.5	38.4
80°	421.5	119.3	85.2	55.2	41.5	38.3	37.8	36.2	33.2	34.0	34.0
82.5°	288.7	78.2	61.4	45.2	35.6	32.3	32.3	30.8	27.6	27.9	28.9
85°	144.9	53.8	45.9	35.0	27.6	26.1	26.1	24.9	21.6	21.6	23.0
87.5°	44.1	32.3	30.4	25.1	19.9	19.5	18.7	17.7	15.7	15.5	16.3
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°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	913.8	904.0	892.0	865.8	857.1	856.5	864.4	856.3	872.1	865.3	872.8
5°	736.9	727.3	714.1	680.6	660.3	646.4	640.0	620.5	634.6	624.3	632.9
7.5°	541.9	544.3	535.4	515.7	471.5	449.2	436.1	424.4	434.6	433.5	449.7
10°	380.9	387.0	380.8	360.9	325.0	312.9	315.2	319.9	333.2	340.1	365.2
12.5°	274.3	274.0	269.9	252.2	228.6	230.0	239.8	247.9	260.1	267.3	292.8
15°	204.9	201.7	200.0	185.5	172.0	175.0	179.8	180.6	188.5	192.7	213.3
17.5°	154.8	156.3	158.2	148.0	137.7	135.9	132.1	127.4	129.6	130.6	140.9
20°	122.9	129.0	133.8	126.5	116.2	110.8	105.8	102.8	102.8	102.5	105.6
22.5°	107.3	111.8	116.9	111.8	102.5	97.7	95.0	92.5	92.3	92.3	95.0
25°	99.0	102.2	107.1	103.7	96.7	93.1	90.5	87.3	86.1	85.9	87.8
27.5°	94.9	96.2	98.6	95.5	89.7	87.9	87.2	84.5	83.0	82.0	83.9
30°	87.8	87.3	87.6	84.5	79.8	79.6	80.8	81.3	80.8	80.7	83.6
32.5°	81.1	80.5	80.3	77.6	73.2	72.3	73.2	74.3	75.5	77.3	80.7
35°	72.9	74.6	75.6	73.2	68.1	64.9	63.8	62.0	60.8	60.8	64.8
37.5°	66.4	70.3	71.9	69.7	64.0	59.6	57.6	57.2	57.4	58.1	62.0
40°	64.0	67.1	68.5	66.1	60.5	56.6	55.3	54.9	55.3	56.4	60.1
42.5°	62.7	64.8	64.7	62.0	57.2	54.4	53.8	53.4	53.8	54.8	59.0
45°	61.5	62.9	61.5	58.3	54.0	52.6	52.7	52.6	52.9	54.0	57.9
47.5°	60.5	61.1	59.3	56.1	51.6	51.3	51.9	52.5	52.7	53.5	57.8
50°	59.0	59.0	57.4	54.0	49.4	49.6	50.6	51.7	51.9	52.9	56.2
52.5°	57.0	57.0	55.9	52.6	47.8	48.2	48.2	49.6	49.9	51.3	54.6
55°	55.5	55.2	54.6	51.6	46.3	47.0	46.5	47.0	47.9	49.1	52.9
57.5°	54.1	53.4	53.4	50.7	44.9	45.4	44.1	44.8	45.9	46.9	50.8
60°	52.7	52.0	52.5	49.4	43.1	42.8	42.2	43.6	43.9	45.2	49.1
62.5°	51.3	50.7	50.8	48.1	41.7	40.9	40.9	42.1	42.2	43.9	47.8
65°	49.9	49.2	49.1	46.7	40.2	39.2	39.6	40.2	40.6	42.2	45.9
67.5°	48.8	47.4	47.4	45.5	38.4	37.4	38.4	38.3	38.7	40.3	43.3
70°	47.3	45.4	45.5	44.6	36.7	35.6	36.4	36.2	36.6	37.5	40.6
72.5°	44.8	43.3	43.6	43.3	35.0	33.2	33.5	33.5	33.5	34.5	37.5
75°	41.7	40.6	41.5	42.4	32.9	30.5	30.8	30.8	30.4	30.8	34.7
77.5°	37.9	37.2	40.7	39.4	30.5	27.6	27.6	27.3	26.2	26.9	31.0
80°	33.7	33.2	37.5	33.1	27.8	24.0	23.6	22.7	21.6	22.3	26.4
82.5°	29.5	28.9	31.5	25.3	24.0	19.9	19.0	17.3	16.3	16.9	20.8
85°	24.2	24.2	24.3	19.1	18.2	15.2	14.2	12.0	10.9	11.1	14.8
87.5°	17.2	17.7	16.3	13.0	10.9	8.4	7.7	6.6	5.5	6.4	7.7
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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CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	910.7	929.7	951.1	978.8	1002.4	1041.1	1078.4	1100.9
5°	680.9	712.4	751.7	802.2	849.3	920.0	990.1	1035.1
7.5°	487.3	521.0	563.4	626.6	693.1	783.3	876.0	929.8
10°	403.2	437.8	473.5	516.0	570.6	668.7	778.3	838.9
12.5°	333.6	370.6	409.1	453.9	504.4	592.0	718.4	788.2
15°	255.3	296.7	342.1	398.7	462.0	563.1	703.6	779.3
17.5°	175.0	221.2	276.9	346.8	424.2	553.9	730.1	817.5
20°	120.6	154.1	213.5	295.6	388.7	552.6	781.0	890.5
22.5°	100.8	115.8	159.3	248.7	361.9	567.5	860.1	993.0
25°	93.2	102.2	127.2	207.7	342.6	601.7	969.1	1125.8
27.5°	88.8	96.8	115.5	181.0	327.3	641.3	1075.1	1254.5
30°	90.5	98.8	112.2	167.4	306.3	674.4	1169.2	1354.7
32.5°	81.6	85.2	96.2	155.2	291.3	702.1	1251.7	1437.8
35°	69.4	75.8	85.9	149.6	291.7	720.7	1341.4	1543.9
37.5°	66.1	72.6	79.8	147.5	295.6	740.6	1444.6	1668.5
40°	64.0	70.0	76.1	146.3	299.4	758.7	1545.5	1791.6
42.5°	62.7	68.1	75.8	142.2	301.3	774.9	1628.6	1896.2
45°	62.6	68.1	77.3	138.1	304.3	792.2	1698.2	1973.5
47.5°	62.7	70.3	74.6	133.0	304.3	821.4	1780.0	2042.7
50°	62.1	74.1	71.9	126.0	297.2	876.6	1892.1	2135.4
52.5°	61.8	73.7	66.6	115.2	284.9	964.2	2035.6	2262.8
55°	60.8	71.1	62.7	99.0	270.6	1059.6	2189.3	2413.7
57.5°	59.9	62.9	60.6	84.8	248.7	1126.8	2295.3	2531.5
60°	67.3	54.9	59.0	78.0	219.0	1145.2	2291.0	2578.2
62.5°	62.3	51.6	56.8	76.4	198.4	1093.5	2185.2	2553.0
65°	48.8	49.2	54.4	80.8	192.9	956.5	1997.7	2435.9
67.5°	44.6	47.0	52.2	86.5	193.4	765.9	1717.4	2180.9
70°	42.1	44.6	49.6	89.6	194.8	571.0	1357.9	1776.4
72.5°	39.2	41.4	46.7	90.0	185.8	414.7	1046.5	1306.1
75°	35.8	37.8	42.6	78.4	153.9	287.6	800.5	893.6
77.5°	31.7	33.2	37.4	60.5	114.3	184.2	601.0	652.8
80°	27.0	27.9	31.4	44.2	78.2	115.2	475.5	523.9
82.5°	21.6	22.1	24.3	33.2	50.8	73.9	318.4	363.4
85°	15.4	15.4	16.7	24.2	34.7	46.9	173.0	191.7
87.5°	7.2	7.5	7.5	13.2	18.1	23.7	39.9	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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