

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: P193048

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193048
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-10-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA 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: 54933.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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



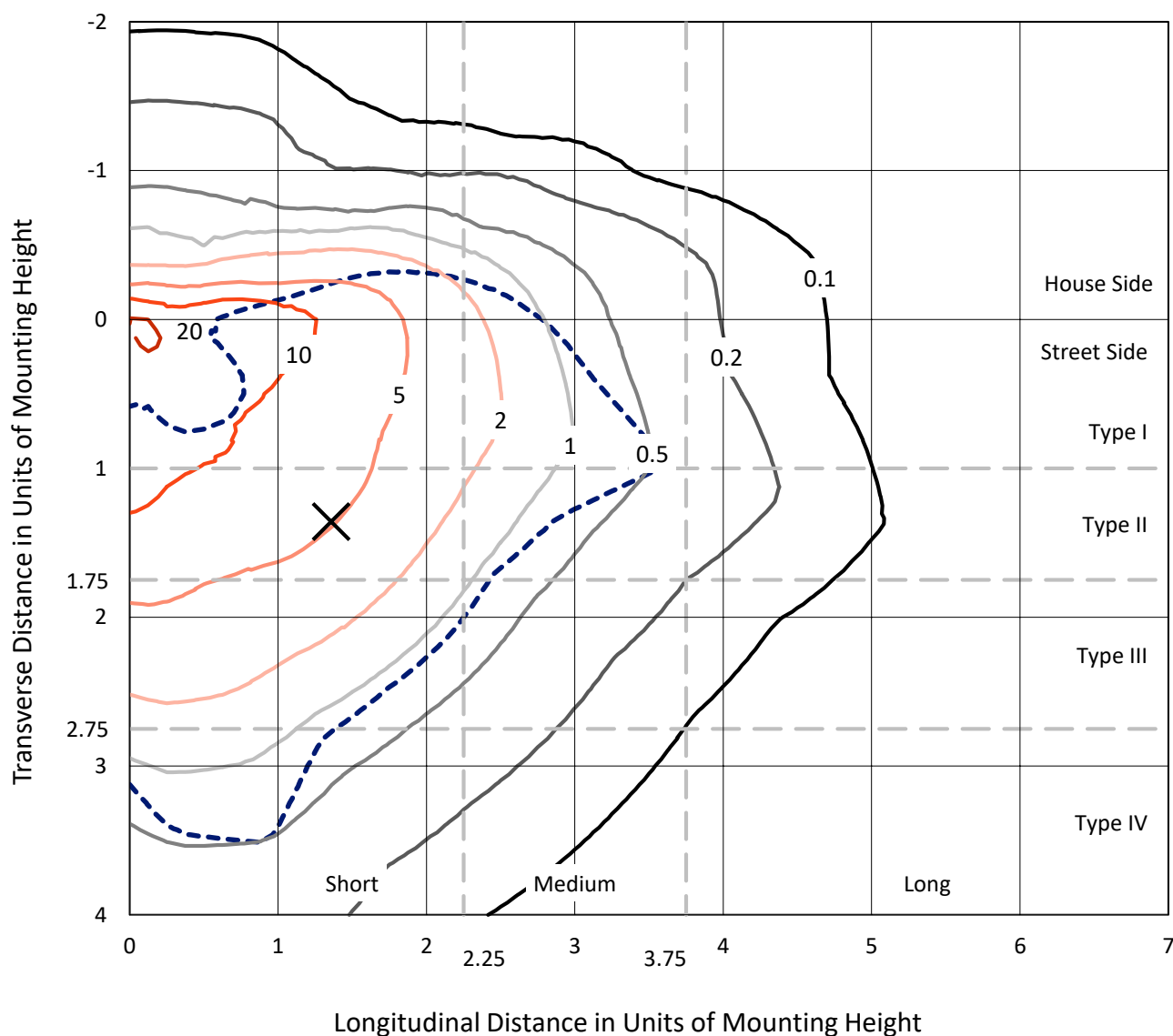
REPORT NUMBER: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

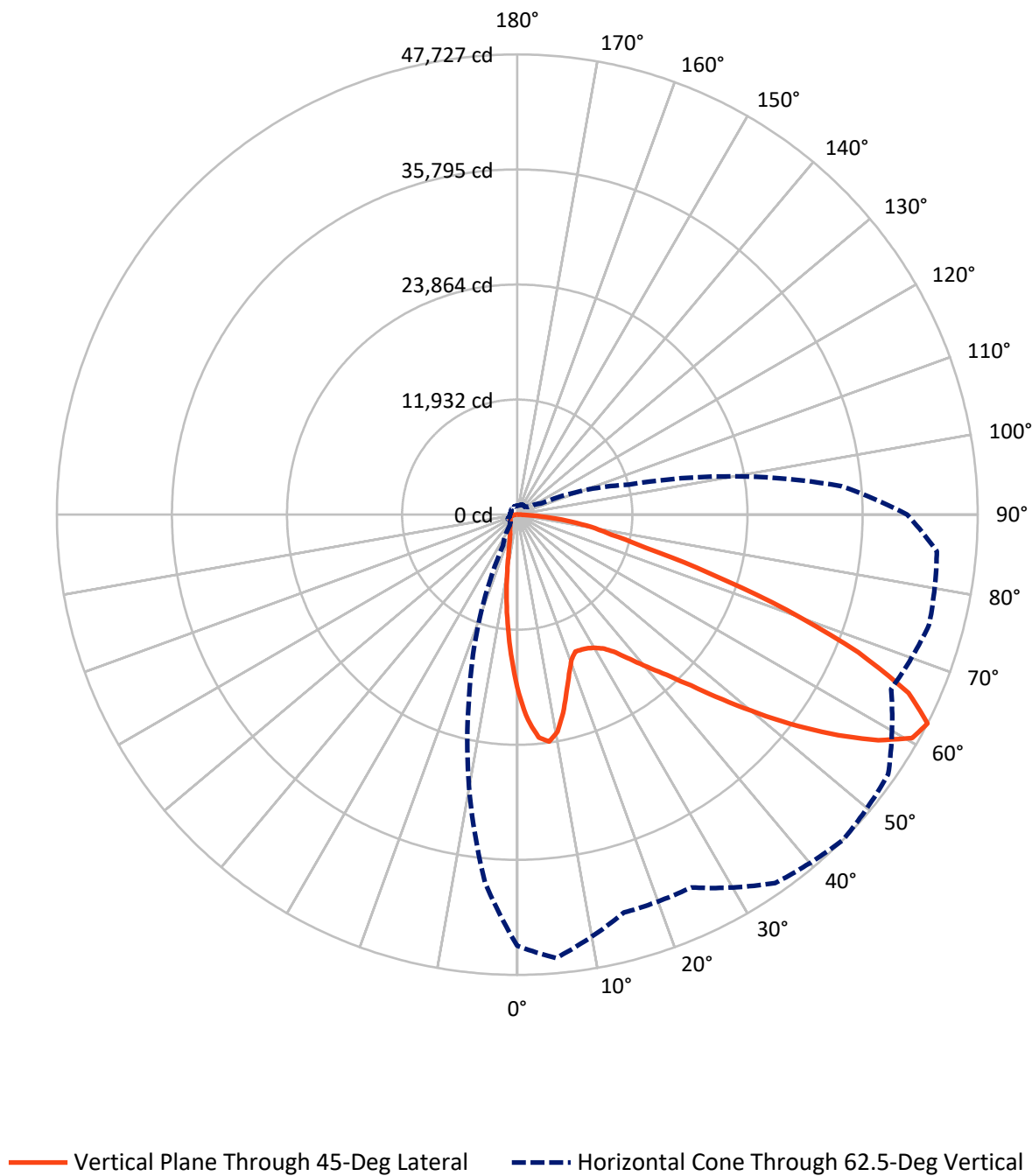


Based on 30 foot mounting height. Maximum calculated value = 24.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

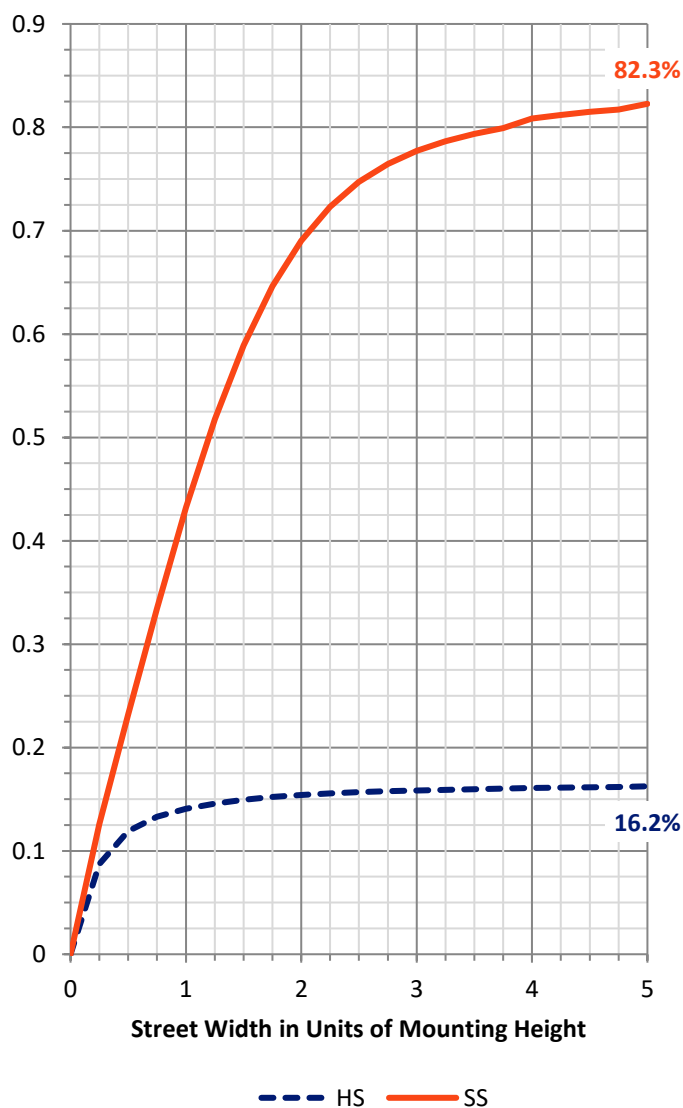
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9090.7	0.0	9090.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	45842.6	0.0	45842.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	54933.4	0.0	54933.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.0	2.5
10°-20°	2477.5	4.5
20°-30°	3612.1	6.6
30°-40°	5563.2	10.1
40°-50°	8187.5	14.9
50°-60°	12009.4	21.9
60°-70°	13424.8	24.4
70°-80°	6572.6	12.0
80°-90°	1735.3	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°	54933.4	100.0
0°-180°	54933.4	100.0

Coefficient of Utilization



REPORT NUMBER: P193048

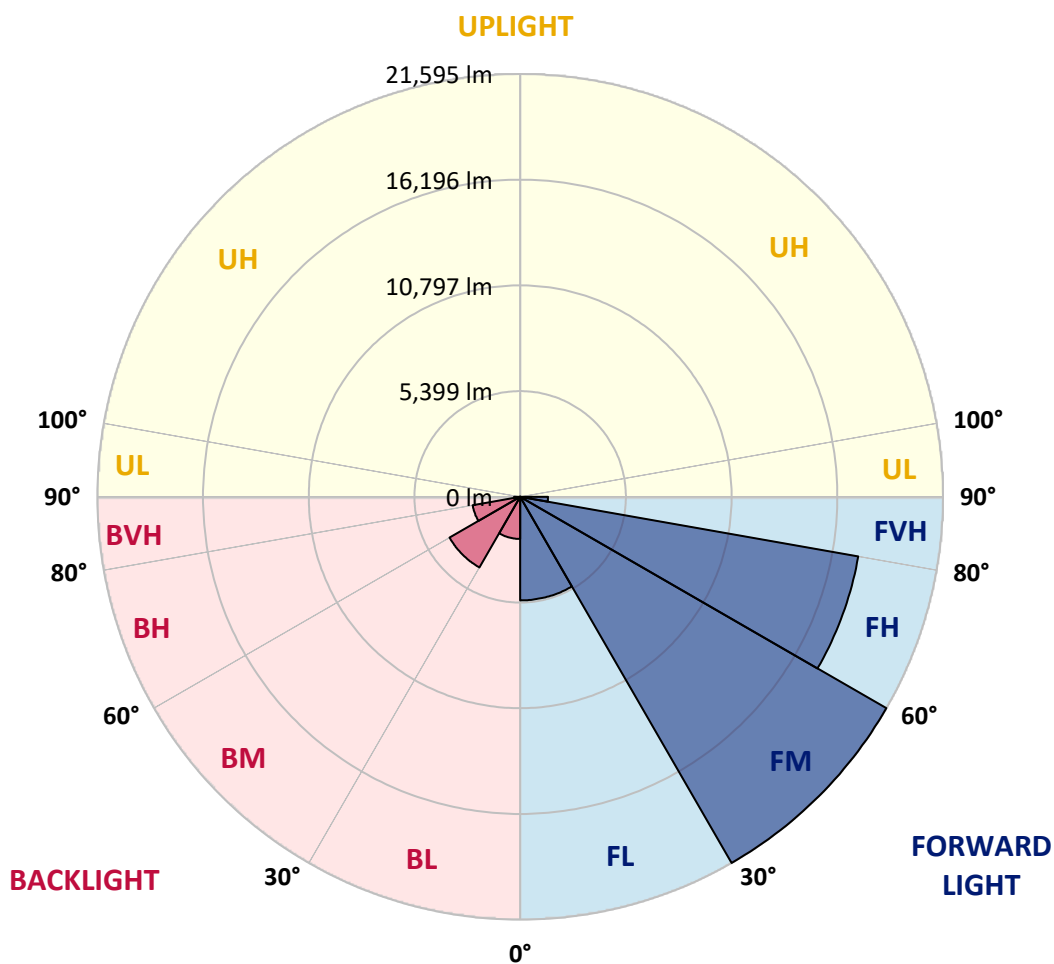
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5289.9	9.6			
FM	(30°-60°)	21594.8	39.3			
FH	(60°-80°)	17532.8	31.9			G5
FVH	(80°-90°)	1425.1	2.6			G5
BL	(0°-30°)	2150.7	3.9	B3/2500		
BM	(30°-60°)	4165.3	7.6	B3/5000		
BH	(60°-80°)	2464.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	310.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	19284.1	19592.3	20193.2	20643.1	21189.6	21316.5	21491.7	21319.5	21014.5	20609.9	20477.1
5°	18133.6	18791.9	20250.5	21533.9	22675.3	23206.8	23354.8	22917.0	22032.1	20869.6	20160.0
7.5°	16288.6	17224.7	19199.7	21090.0	22772.1	23765.5	23741.4	22723.7	21096.1	19202.7	18064.2
10°	14697.2	15766.2	18030.9	20144.7	21929.5	22892.8	22521.4	21219.9	19278.1	17097.9	15862.8
12.5°	13806.3	14854.3	17152.3	19275.1	20766.9	21099.0	20815.2	19540.9	17710.9	15506.5	14425.4
15°	13652.4	14802.9	16802.0	18529.3	19365.7	19075.8	18737.6	18166.9	16874.4	14993.1	13866.7
17.5°	14319.7	15588.0	17203.5	18009.9	17867.9	17363.6	17267.0	17330.3	17019.5	15563.9	14265.3
20°	15600.0	17122.0	18160.8	17765.2	16729.4	16034.9	16059.0	17028.4	17949.4	17010.3	15527.6
22.5°	17396.8	19133.2	19540.9	17895.1	16249.4	15424.9	15624.3	17194.5	19432.2	19124.2	17230.7
25°	19722.1	21304.5	21011.5	18366.2	16297.6	15500.4	15660.4	17768.3	21183.6	21238.1	19338.6
27.5°	21974.8	23442.4	22246.6	18991.2	16496.9	15678.6	15890.0	18671.2	22856.6	23533.1	21748.3
30°	23732.3	24753.0	22735.8	19562.0	16889.6	16025.8	16288.6	19528.8	23617.6	25082.1	23602.4
32.5°	25187.9	25921.6	23514.9	20268.6	17611.3	16572.5	17034.5	20570.6	24713.7	26555.8	25417.3
35°	27048.0	27256.4	24484.2	21056.8	18725.5	17523.6	18097.3	21591.3	25758.5	28044.5	27205.0
37.5°	29228.3	28959.5	25399.2	22134.9	20166.0	19012.4	19486.5	22711.6	26619.2	29732.6	29032.0
40°	31384.4	30738.1	26546.7	23807.8	22267.7	20766.9	21328.6	23907.4	27422.4	31423.6	30816.7
42.5°	33217.3	32260.1	27679.0	25646.9	24224.5	22702.6	23373.0	25112.3	28189.4	32867.1	32365.8
45°	34573.2	33383.5	28757.1	27413.3	26921.2	25275.4	25592.5	26492.3	29020.0	34072.0	33640.2
47.5°	35784.1	34512.9	29977.1	29195.0	29279.7	28621.3	28111.0	28098.9	29998.3	35056.4	34845.1
50°	37405.8	36080.1	31287.7	31031.0	32818.8	32380.9	31254.4	29974.1	31236.4	36173.7	36149.5
52.5°	39640.4	38562.4	32888.2	33009.0	36122.4	36409.2	35014.1	32226.9	33175.1	38224.2	38079.1
55°	42282.7	41654.5	35068.5	35282.9	40174.8	40380.2	38994.2	35044.4	36025.7	41192.6	40791.0
57.5°	44345.2	44212.3	37460.1	38012.7	43200.7	44124.8	42850.4	38305.6	39238.9	43692.9	42684.4
60°	45166.5	45809.7	40005.9	40766.9	46000.0	47023.8	45906.4	41171.4	42086.4	44728.7	42554.6
62.5°	44722.6	46160.1	42717.5	42654.2	46625.1	47727.2	46942.1	42765.8	44197.2	43659.7	40401.4
65°	42672.3	44900.8	44290.9	42167.9	44487.1	44577.7	44324.1	42053.3	44695.4	40280.6	36240.2
67.5°	38206.0	41413.0	42219.3	38000.7	38719.4	38130.5	37704.8	38151.7	42098.4	35216.5	30457.3
70°	31118.6	35944.2	36330.8	30393.8	30067.7	29672.2	28823.5	31278.6	36974.0	28862.9	24167.2
72.5°	22880.7	27954.0	29140.6	22291.8	20781.9	20863.5	20193.2	23572.2	30061.7	21440.3	18043.1
75°	15654.4	20241.5	22799.2	15554.8	13742.9	13776.2	13691.6	16702.3	23943.7	14914.7	13501.3
77.5°	11435.8	14461.7	17194.5	10457.4	10152.5	9965.2	9919.8	11686.5	18357.0	10828.9	10484.6
80°	9177.0	10683.9	11550.6	7247.3	7794.0	7778.9	7528.3	8035.6	11988.5	7920.9	7842.3
82.5°	6365.7	8210.8	9358.3	5680.2	5260.4	5172.9	5233.3	5985.1	8473.5	5414.5	5148.8
85°	3358.0	5453.6	9267.7	5033.9	3122.4	2491.3	3098.3	4901.1	7341.0	2868.8	2512.4
87.5°	428.9	1576.3	6136.1	2008.1	1232.1	664.3	1470.6	2760.1	4713.9	585.8	510.4
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: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	20135.7	19734.2	19208.7	18722.5	18218.2	17716.9	17061.6	16651.0	16367.1	16312.7	16192.0
5°	19646.6	18311.9	17303.3	16430.5	15639.4	14522.0	13903.0	13389.6	13114.8	13087.6	13021.2
7.5°	17390.8	15548.8	14186.9	12951.7	11831.4	10928.5	9932.0	9467.0	9276.6	9322.0	9367.4
10°	15044.5	12985.0	11420.8	10158.5	9171.0	8410.0	7609.8	7069.3	6694.9	6619.4	6604.1
12.5°	13329.2	11070.4	9551.6	8660.7	7896.7	7180.9	6332.4	5695.2	5209.1	5043.0	4931.3
15°	12604.4	10134.4	8542.9	7582.6	6740.1	5831.1	5043.0	4375.7	3928.8	3783.7	3702.2
17.5°	12758.5	9874.7	7848.3	6619.4	5541.3	4593.0	3599.5	3028.7	2760.1	2690.6	2690.6
20°	13567.9	9826.3	7274.6	5731.5	4387.8	3288.4	2473.2	2147.1	2059.4	2050.5	2074.7
22.5°	14703.2	9995.4	6845.7	4961.5	3409.3	2400.8	1926.6	1805.8	1766.6	1775.6	1802.8
25°	16394.3	10566.1	6534.8	4276.0	2675.5	1965.9	1718.2	1645.8	1627.6	1651.8	1685.0
27.5°	18399.4	11136.9	6341.5	3759.6	2258.8	1796.8	1633.7	1558.1	1570.3	1600.4	1630.7
30°	20160.0	11605.0	6036.5	3391.2	2128.9	1805.8	1633.7	1531.0	1518.9	1524.9	1534.0
32.5°	21739.2	11922.1	5680.2	3040.9	1836.0	1603.5	1524.9	1509.9	1443.5	1419.3	1422.3
35°	23101.1	11922.1	5465.8	2835.6	1645.8	1422.3	1295.5	1220.0	1186.8	1189.9	1223.0
37.5°	24414.7	11683.4	5360.0	2720.8	1543.1	1352.8	1241.0	1174.6	1129.4	1120.4	1126.4
40°	25574.4	11336.2	5239.3	2672.5	1464.6	1310.6	1204.9	1150.5	1102.2	1087.1	1090.1
42.5°	26504.4	11055.4	5106.4	2609.1	1416.2	1280.4	1180.8	1132.4	1078.1	1063.0	1060.0
45°	27510.1	10961.8	4931.3	2482.3	1440.5	1283.4	1174.6	1123.4	1069.0	1050.8	1044.8
47.5°	28835.7	11254.7	4750.0	2331.3	1491.7	1298.5	1183.8	1123.4	1066.0	1050.8	1044.8
50°	30505.6	11943.1	4520.6	2110.8	1440.5	1340.7	1180.8	1114.3	1066.0	1050.8	1038.8
52.5°	32649.6	12873.3	4218.6	1857.2	1410.2	1443.5	1174.6	1096.2	1050.8	1029.8	1008.6
55°	35255.7	13634.3	3859.2	1648.8	1340.7	1416.2	1165.6	1075.0	1026.7	996.6	978.4
57.5°	37164.2	13909.0	3397.2	1512.9	1244.1	1370.9	1153.6	1047.9	996.6	972.4	948.2
60°	36786.7	13377.6	3007.7	1428.3	1186.8	1238.1	1144.5	1023.6	969.3	951.2	930.2
62.5°	33764.0	11988.5	2757.0	1389.1	1150.5	1129.4	1153.6	999.5	945.2	927.1	921.0
65°	29231.3	9938.0	2657.4	1380.1	1120.4	1066.0	1072.1	972.4	918.0	902.9	896.9
67.5°	24112.8	8020.5	2569.8	1410.2	1081.1	1020.7	990.4	936.2	890.8	875.7	863.7
70°	19015.5	6670.6	2530.6	1392.1	1032.7	975.3	942.2	896.9	857.5	842.5	833.4
72.5°	15313.2	5634.8	2509.4	1374.1	969.3	914.9	884.8	845.5	803.3	797.3	788.2
75°	12957.8	4430.0	2298.0	1316.6	896.9	842.5	821.4	785.1	742.9	742.9	736.9
77.5°	9995.4	3203.9	1911.5	1165.6	821.4	761.0	742.9	715.6	667.3	676.5	673.4
80°	7383.3	2089.7	1494.7	966.3	727.7	670.5	661.3	634.1	582.8	594.9	594.9
82.5°	5058.0	1370.9	1075.0	791.1	622.1	567.7	567.7	540.5	483.2	489.2	507.3
85°	2539.6	942.2	803.3	613.1	483.2	455.9	455.9	434.9	377.5	380.4	404.7
87.5°	773.0	567.7	531.4	437.9	347.2	341.2	326.1	311.1	274.8	271.7	287.0
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: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	16007.8	15835.6	15627.3	15168.3	15014.3	15005.2	15144.1	14999.1	15276.9	15159.1	15289.0
5°	12909.5	12740.4	12507.9	11922.1	11565.6	11324.0	11209.4	10871.2	11115.7	10937.6	11085.6
7.5°	9494.1	9533.4	9379.4	9035.0	8259.0	7869.5	7640.0	7434.6	7612.8	7594.7	7878.5
10°	6673.7	6779.3	6670.6	6323.4	5695.2	5480.9	5523.2	5604.7	5837.1	5958.0	6395.8
12.5°	4804.4	4798.4	4729.0	4417.9	4004.3	4028.4	4200.5	4342.4	4556.7	4683.6	5130.6
15°	3587.5	3533.1	3503.0	3249.3	3013.7	3065.0	3149.6	3164.7	3300.6	3376.1	3738.5
17.5°	2711.7	2738.9	2772.1	2591.0	2412.8	2379.5	2313.1	2231.6	2270.9	2285.9	2467.2
20°	2153.1	2261.7	2343.3	2216.6	2035.3	1938.7	1854.1	1799.8	1799.8	1796.8	1848.1
22.5°	1881.3	1959.8	2047.4	1959.8	1796.8	1712.2	1663.9	1621.6	1615.6	1615.6	1663.9
25°	1733.3	1790.8	1875.3	1814.9	1694.1	1630.7	1585.4	1531.0	1509.9	1503.9	1537.1
27.5°	1660.8	1685.0	1727.3	1673.0	1570.3	1540.1	1528.0	1479.7	1452.5	1437.5	1470.6
30°	1537.1	1531.0	1534.0	1479.7	1398.2	1395.1	1416.2	1425.3	1416.2	1413.3	1464.6
32.5°	1422.3	1410.2	1407.3	1358.8	1283.4	1265.3	1283.4	1301.5	1322.7	1352.8	1413.3
35°	1277.4	1307.5	1325.7	1283.4	1192.8	1138.5	1117.2	1084.1	1066.0	1066.0	1135.4
37.5°	1162.6	1232.1	1259.2	1220.0	1120.4	1044.8	1008.6	1002.6	1005.6	1017.6	1084.1
40°	1123.4	1174.6	1198.8	1159.6	1060.0	990.4	969.3	963.3	969.3	987.4	1054.0
42.5°	1099.1	1135.4	1132.4	1084.1	1002.6	954.3	942.2	936.2	942.2	960.3	1032.7
45°	1078.1	1102.2	1078.1	1020.7	945.2	921.0	924.0	921.0	927.1	945.2	1014.7
47.5°	1060.0	1069.0	1038.8	981.4	902.9	896.9	908.9	918.0	924.0	939.2	1011.6
50°	1032.7	1032.7	1005.6	945.2	866.7	869.7	884.8	906.0	908.9	927.1	984.4
52.5°	999.5	996.6	978.4	921.0	836.5	845.5	845.5	869.7	875.7	896.9	957.2
55°	972.4	966.3	957.2	902.9	809.3	824.4	815.3	824.4	839.5	860.6	927.1
57.5°	948.2	936.2	936.2	887.8	788.2	794.2	773.0	785.1	803.3	821.4	890.8
60°	924.0	912.0	918.0	866.7	755.0	748.9	739.8	764.0	770.1	791.1	860.6
62.5°	896.9	887.8	890.8	842.5	730.8	715.6	715.6	736.9	739.8	770.1	836.5
65°	875.7	863.7	860.6	818.4	703.6	685.5	694.6	703.6	709.6	739.8	803.3
67.5°	854.6	830.5	830.5	797.3	673.4	655.3	673.4	670.5	679.5	706.6	757.9
70°	827.4	794.2	797.3	782.1	643.2	622.1	637.2	634.1	640.1	658.3	709.6
72.5°	785.1	757.9	764.0	757.9	613.1	582.8	588.9	588.9	588.9	603.9	658.3
75°	730.8	709.6	727.7	742.9	576.8	534.5	540.5	540.5	531.4	540.5	606.9
77.5°	664.3	652.3	712.7	691.5	534.5	483.2	483.2	477.1	459.0	471.1	543.6
80°	591.8	582.8	658.3	579.8	486.2	419.8	413.6	398.6	380.4	389.5	462.0
82.5°	516.4	507.3	552.7	443.9	419.8	347.2	332.1	305.0	287.0	296.0	362.4
85°	422.8	422.8	425.8	335.2	320.1	265.7	247.6	211.4	190.2	196.3	259.7
87.5°	302.0	311.1	287.0	229.6	190.2	147.9	135.9	114.7	96.5	111.8	135.9
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: P193048

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	15953.4	16285.5	16663.0	17146.2	17559.9	18239.3	18891.6	19284.1
5°	11928.1	12480.6	13169.1	14054.0	14878.4	16116.5	17345.5	18133.6
7.5°	8536.9	9128.7	9871.6	10976.8	12142.4	13721.8	15346.4	16288.6
10°	7063.2	7670.2	8295.3	9041.2	9995.4	11713.6	13634.3	14697.2
12.5°	5843.1	6492.5	7165.9	7951.1	8835.8	10369.9	12583.4	13806.3
15°	4472.3	5197.0	5991.2	6984.7	8093.0	9865.6	12323.7	13652.4
17.5°	3065.0	3874.4	4849.7	6075.8	7431.6	9702.4	12788.7	14319.7
20°	2110.8	2699.7	3741.5	5178.9	6809.6	9681.4	13682.5	15600.0
22.5°	1766.6	2029.3	2790.3	4354.5	6341.5	9941.1	15068.6	17396.8
25°	1633.7	1790.8	2228.6	3638.8	6000.3	10538.9	16977.1	19722.1
27.5°	1555.2	1697.2	2023.3	3170.7	5731.5	11233.5	18834.2	21974.8
30°	1585.4	1730.3	1965.9	2932.2	5366.2	11813.3	20483.1	23732.3
32.5°	1428.3	1491.7	1685.0	2720.8	5103.4	12299.6	21926.4	25187.9
35°	1216.9	1328.7	1503.9	2621.1	5109.4	12625.7	23499.8	27048.0
37.5°	1159.6	1271.3	1398.2	2585.0	5178.9	12972.9	25305.6	29228.3
40°	1123.4	1226.0	1334.7	2563.8	5245.3	13290.0	27075.2	31384.4
42.5°	1099.1	1192.8	1328.7	2491.3	5278.6	13573.9	28530.7	33217.3
45°	1096.2	1192.8	1352.8	2418.8	5329.8	13878.8	29750.6	34573.2
47.5°	1099.1	1232.1	1307.5	2331.3	5329.8	14389.1	31182.0	35784.1
50°	1087.1	1298.5	1259.2	2207.5	5206.1	15355.6	33144.9	37405.8
52.5°	1081.1	1289.5	1165.6	2017.3	4991.6	16889.6	35660.4	39640.4
55°	1066.0	1244.1	1099.1	1733.3	4741.0	18562.5	38354.0	42282.7
57.5°	1050.8	1102.2	1063.0	1485.7	4354.5	19740.2	40208.2	44345.2
60°	1177.7	963.3	1032.7	1364.9	3838.2	20063.3	40135.7	45166.5
62.5°	1090.1	902.9	993.5	1337.8	3475.7	19157.4	38281.5	44722.6
65°	854.6	863.7	954.3	1416.2	3379.1	16756.6	34996.0	42672.3
67.5°	782.1	824.4	914.9	1516.0	3388.1	13416.8	30085.8	38206.0
70°	736.9	782.1	869.7	1567.3	3412.2	10001.5	23786.7	31118.6
72.5°	685.5	724.7	818.4	1576.3	3255.3	7265.5	18332.9	22880.7
75°	625.1	661.3	745.9	1374.1	2696.6	5040.0	14023.8	15654.4
77.5°	555.6	582.8	655.3	1060.0	2002.0	3225.2	10526.9	11435.8
80°	474.0	489.2	549.6	776.1	1370.9	2017.3	8328.5	9177.0
82.5°	380.4	386.6	425.8	582.8	890.8	1295.5	5577.4	6365.7
85°	268.8	268.8	293.0	422.8	606.9	821.4	3028.7	3358.0
87.5°	126.8	129.8	129.8	232.5	317.1	416.8	697.5	428.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)