

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: P193068

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193068
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-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40458.7 lumens
Efficiency: N/A
Efficacy: 96.6 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): 419
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



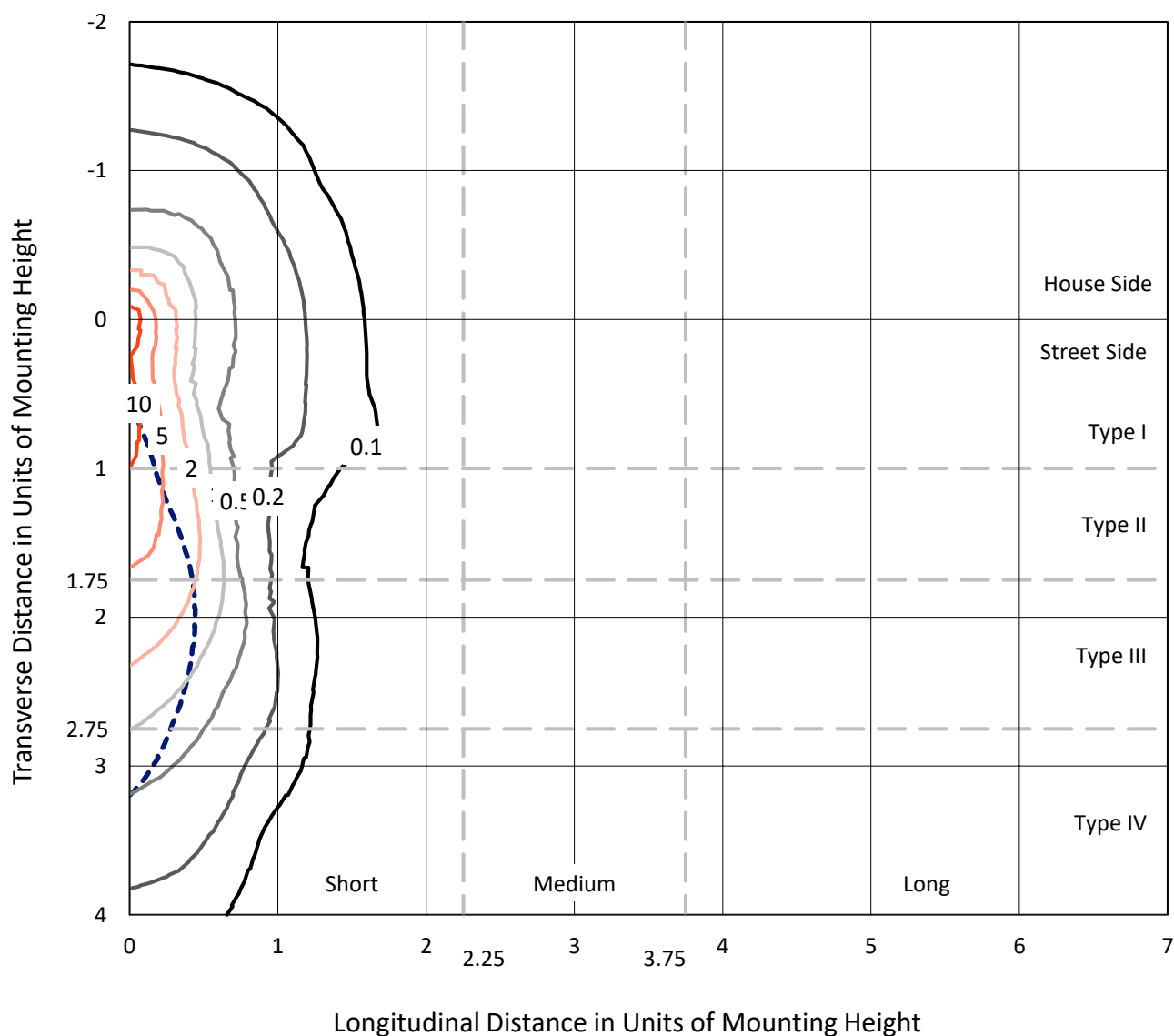
REPORT NUMBER: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

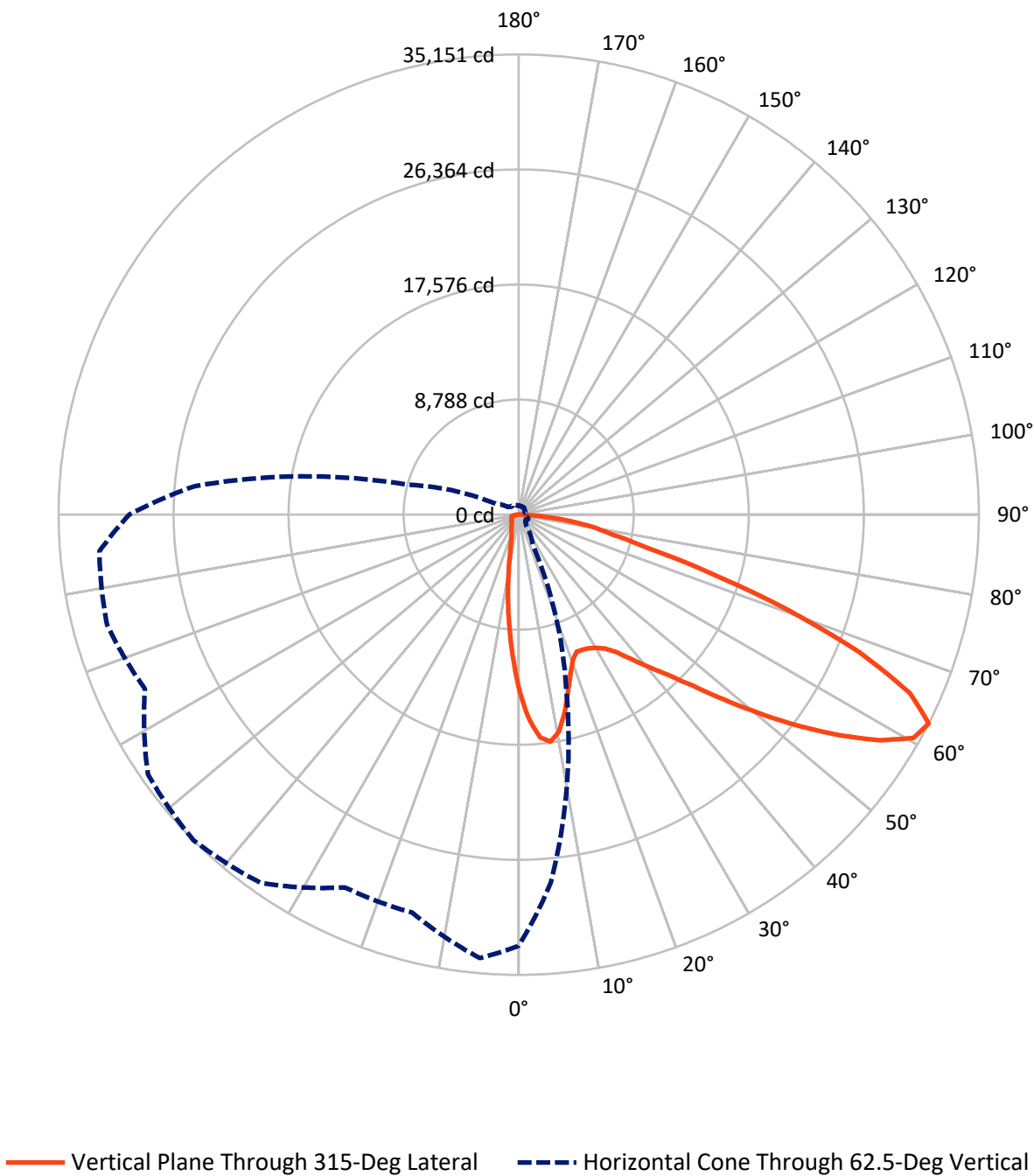


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6695.4	0.0	6695.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33763.4	0.0	33763.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	40458.7	0.0	40458.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.1	2.5
10°-20°	1824.7	4.5
20°-30°	2660.3	6.6
30°-40°	4097.3	10.1
40°-50°	6030.2	14.9
50°-60°	8845.0	21.9
60°-70°	9887.4	24.4
70°-80°	4840.7	12.0
80°-90°	1278.1	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°	40458.7	100.0
0°-180°	40458.7	100.0

Coefficient of Utilization



REPORT NUMBER: P193068

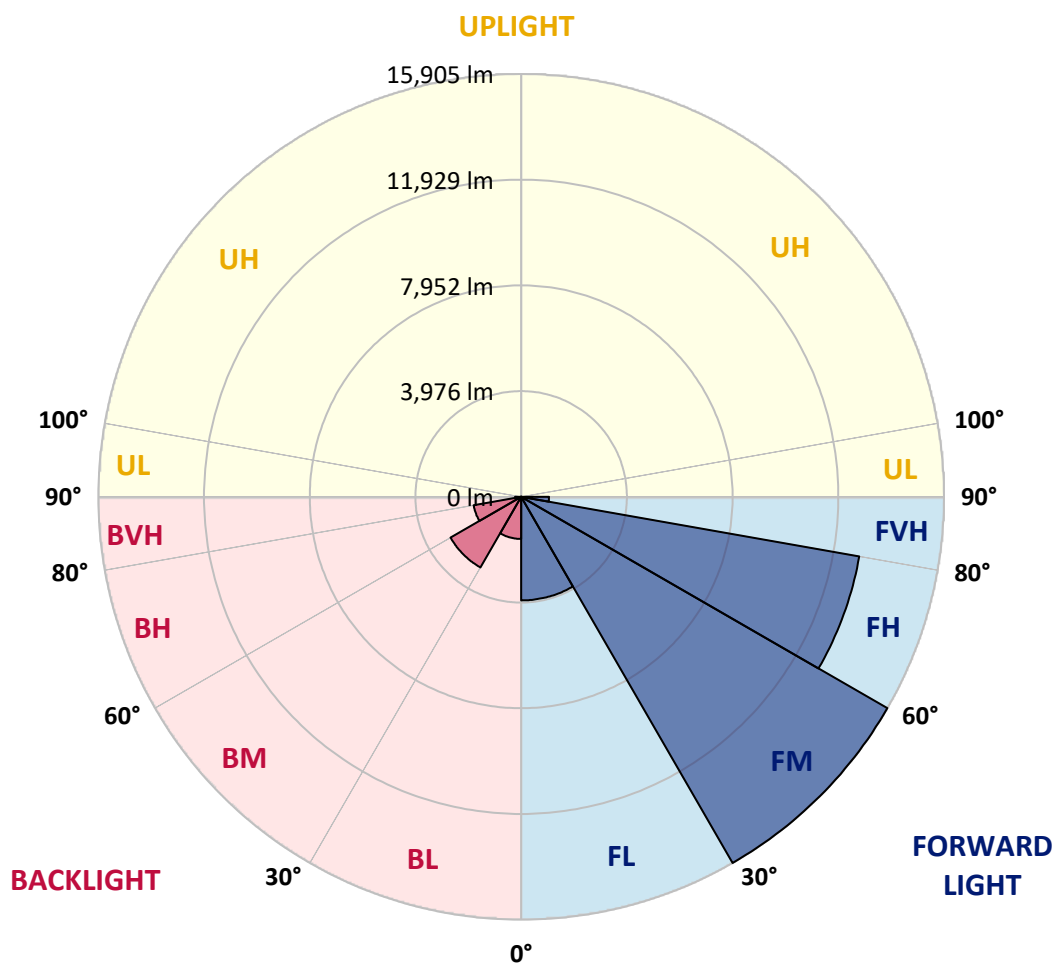
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3896.0	9.6			
FM	(30°-60°)	15904.7	39.3			
FH	(60°-80°)	12913.0	31.9			G5
FVH	(80°-90°)	1049.6	2.6			G5
BL	(0°-30°)	1584.0	3.9	B3/2500		
BM	(30°-60°)	3067.8	7.6	B3/5000		
BH	(60°-80°)	1815.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	228.5	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: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1
2.5°	14202.9	13913.7	13433.4	12932.9	12628.3	12272.4	11994.4	11749.7	11260.5	11164.8	11251.5
5°	13355.6	12775.0	11869.8	10957.9	10350.7	9699.2	9192.1	8785.1	8164.5	8055.5	8186.8
7.5°	11996.6	11302.8	10106.2	8943.0	8084.5	7270.4	6723.4	6287.5	5802.6	5593.5	5606.8
10°	10824.6	10041.7	8627.1	7361.7	6659.0	6109.6	5649.1	5202.1	4710.6	4388.1	4299.2
12.5°	10168.4	9267.7	7637.4	6507.6	5856.0	5277.8	4781.7	4303.6	3778.7	3449.6	3356.1
15°	10055.0	9076.3	7266.1	5960.5	5144.3	4412.6	3827.6	3293.8	2753.5	2486.5	2430.9
17.5°	10546.6	9418.9	7145.9	5473.5	4474.8	3571.9	2853.6	2257.4	1817.1	1683.5	1672.5
20°	11489.6	10077.3	7130.4	5015.3	3814.2	2755.6	1988.3	1554.6	1361.2	1323.3	1325.6
22.5°	12812.9	11098.1	7321.7	4670.5	3207.1	2055.0	1494.5	1301.1	1225.5	1189.9	1189.9
25°	14525.4	12503.7	7762.0	4419.2	2680.0	1641.4	1318.9	1203.3	1132.0	1107.6	1112.0
27.5°	16184.6	13871.5	8273.5	4221.2	2335.3	1490.1	1249.9	1145.4	1083.1	1058.6	1069.7
30°	17479.0	15085.9	8700.6	3952.1	2159.6	1447.9	1274.4	1167.7	1078.7	1040.9	1043.1
32.5°	18550.9	16148.9	9058.6	3758.6	2004.0	1241.0	1098.7	1051.9	1040.9	996.3	974.1
35°	19921.0	17307.8	9298.8	3763.1	1930.5	1107.6	978.6	896.3	836.3	785.1	785.1
37.5°	21526.8	18637.7	9554.6	3814.2	1903.9	1029.8	936.4	854.1	798.4	749.5	740.7
40°	23114.8	19941.0	9788.1	3863.2	1888.2	983.0	902.9	827.3	776.2	727.2	713.9
42.5°	24464.8	21013.0	9997.2	3887.7	1834.9	978.6	878.6	809.6	760.7	707.2	693.9
45°	25463.4	21911.5	10221.9	3925.4	1781.5	996.3	878.6	807.3	747.4	696.1	682.8
47.5°	26355.2	22965.8	10597.7	3925.4	1717.0	963.0	907.4	809.6	745.0	691.7	680.5
50°	27549.5	24411.4	11309.4	3834.4	1625.8	927.4	956.3	800.7	725.1	682.8	669.4
52.5°	29195.3	26264.1	12439.1	3676.3	1485.7	858.4	949.7	796.2	705.0	660.6	644.9
55°	31141.4	28247.9	13671.4	3491.8	1276.5	809.6	916.3	785.1	682.8	633.8	618.3
57.5°	32660.5	29613.5	14538.7	3207.1	1094.2	782.9	811.8	774.0	656.1	605.0	591.6
60°	33265.4	29560.1	14776.8	2826.7	1005.3	760.7	709.5	867.4	633.8	582.7	567.2
62.5°	32938.5	28194.6	14109.5	2560.0	985.3	731.7	665.0	802.8	616.1	567.2	544.8
65°	31428.3	25774.7	12341.4	2488.7	1043.1	702.7	636.1	629.5	591.6	544.8	522.7
67.5°	28138.9	22158.5	9881.5	2495.4	1116.5	673.9	607.2	576.1	558.2	520.4	500.4
70°	22919.0	17518.9	7366.2	2513.2	1154.4	640.5	576.1	542.7	522.7	484.9	471.5
72.5°	16851.8	13502.4	5351.1	2397.5	1161.0	602.7	533.7	504.9	484.9	444.8	433.6
75°	11529.6	10328.6	3712.0	1986.2	1012.0	549.3	487.1	460.4	447.1	398.1	391.4
77.5°	8422.6	7753.1	2375.3	1474.6	780.6	482.6	429.3	409.1	400.3	347.0	338.0
80°	6759.0	6134.1	1485.7	1009.8	571.5	404.8	360.3	349.2	340.3	287.0	280.2
82.5°	4688.4	4107.8	954.2	656.1	429.3	313.6	284.7	280.2	266.9	218.0	211.3
85°	2473.2	2230.7	605.0	447.1	311.4	215.8	198.0	198.0	191.3	144.5	140.1
87.5°	315.9	513.7	306.9	233.5	171.2	95.6	95.6	93.4	100.1	82.3	71.1
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: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1
2.5°	11046.9	11153.7	11051.3	11058.0	11171.5	11509.6	11663.0	11789.8	11925.4	12014.4	12054.5
5°	8006.6	8255.7	8340.3	8518.2	8780.6	9212.0	9383.3	9507.8	9590.2	9639.1	9659.2
7.5°	5475.6	5626.9	5795.8	6082.8	6654.4	6907.9	7021.4	6992.5	6899.0	6865.8	6832.3
10°	4128.0	4067.8	4036.7	4194.6	4657.1	4913.0	4993.0	4915.2	4864.0	4875.1	4930.8
12.5°	3198.2	3093.6	2966.9	2949.1	3253.8	3482.8	3534.1	3538.5	3631.9	3714.2	3836.5
15°	2330.8	2319.7	2257.4	2219.6	2393.1	2579.9	2602.1	2642.2	2726.7	2786.7	2893.5
17.5°	1643.6	1703.7	1752.5	1777.0	1908.2	2041.7	2017.3	1997.3	1981.6	1981.6	2032.8
20°	1325.6	1365.6	1427.8	1499.0	1632.5	1725.9	1665.8	1585.8	1527.9	1510.2	1516.8
22.5°	1194.3	1225.5	1261.1	1323.3	1443.5	1507.9	1443.5	1385.6	1327.7	1307.8	1301.1
25°	1127.5	1167.7	1201.0	1247.7	1336.7	1381.1	1318.9	1276.5	1241.0	1216.6	1198.8
27.5°	1089.8	1125.4	1134.3	1156.5	1232.1	1272.3	1241.0	1223.2	1201.0	1178.8	1156.5
30°	1049.8	1043.1	1027.5	1029.8	1089.8	1129.8	1127.5	1132.0	1129.8	1123.1	1118.7
32.5°	958.5	945.2	931.9	945.2	1000.9	1036.5	1038.6	1047.6	1047.6	1045.3	1063.1
35°	798.4	822.9	838.4	878.6	945.2	976.3	963.0	940.8	900.8	876.3	874.1
37.5°	738.4	742.9	769.5	825.1	898.5	927.4	907.4	856.3	829.6	825.1	831.8
40°	709.5	713.9	729.6	780.6	854.1	883.0	865.2	827.3	802.8	800.7	811.8
42.5°	689.4	693.9	702.7	738.4	798.4	833.9	836.3	809.6	780.6	782.9	794.0
45°	678.4	680.5	678.4	696.1	751.7	794.0	811.8	794.0	769.5	774.0	787.3
47.5°	676.1	669.4	660.6	665.0	722.9	765.1	787.3	780.6	769.5	774.0	785.1
50°	667.2	651.6	640.5	638.3	696.1	740.7	760.7	760.7	765.1	774.0	785.1
52.5°	640.5	622.8	622.8	616.1	678.4	720.6	733.9	736.2	742.9	758.4	774.0
55°	607.2	600.5	607.2	596.0	665.0	705.0	711.8	716.2	720.6	733.9	756.2
57.5°	578.3	569.4	585.0	580.5	653.9	689.4	689.4	698.3	698.3	716.2	733.9
60°	562.6	544.8	551.5	556.0	638.3	676.1	671.6	680.5	685.0	700.6	713.9
62.5°	542.7	527.0	527.0	538.2	620.5	656.1	653.9	660.6	678.4	682.8	696.1
65°	518.2	511.6	504.9	518.2	602.7	633.8	636.1	644.9	660.6	665.0	676.1
67.5°	493.8	495.9	482.6	495.9	587.2	611.7	611.7	629.5	636.1	644.9	656.1
70°	467.1	469.3	458.2	473.7	576.1	587.2	585.0	609.4	613.8	620.5	631.6
72.5°	433.6	433.6	429.3	451.5	558.2	562.6	558.2	578.3	580.5	587.2	591.6
75°	398.1	398.1	393.7	424.8	547.2	536.0	522.7	538.2	542.7	547.2	547.2
77.5°	351.4	355.8	355.8	393.7	509.2	524.9	480.4	489.3	495.9	498.2	491.5
80°	293.6	304.8	309.1	358.1	426.9	484.9	429.3	436.0	438.1	438.1	429.3
82.5°	224.6	244.6	255.7	309.1	326.9	407.0	373.6	380.3	373.6	360.3	355.8
85°	155.7	182.4	195.7	235.8	246.9	313.6	311.4	311.4	298.1	280.2	277.9
87.5°	84.5	100.1	108.9	140.1	169.1	211.3	229.1	222.5	211.3	200.2	202.3
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: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1
2.5°	12263.5	12566.0	13048.7	13417.8	13789.3	14147.3	14534.3	14830.1	15081.4	15179.3	15477.3
5°	9861.5	10239.7	10695.5	11518.4	12101.1	12743.9	13486.8	14469.7	14847.9	15370.6	16226.8
7.5°	6972.5	7315.0	8048.9	8713.9	9539.0	10448.7	11451.7	12808.5	13304.4	14142.8	15537.3
10°	5206.5	5604.7	6194.0	6754.5	7481.7	8411.5	9563.5	11080.3	11683.0	12592.6	14198.5
12.5°	4194.6	4663.8	5288.8	5816.0	6378.7	7034.7	8153.5	9817.1	10624.4	11420.6	13044.1
15°	3222.7	3714.2	4294.7	4964.0	5584.7	6291.9	7463.9	9283.2	10212.9	11042.5	12428.1
17.5°	2230.7	2651.0	3382.7	4081.2	4875.1	5780.4	7272.8	9396.8	10506.5	11462.8	12534.9
20°	1581.3	1821.5	2422.1	3231.6	4221.2	5357.7	7237.2	9992.8	11436.1	12528.2	13219.9
22.5°	1330.0	1419.0	1768.2	2511.0	3654.1	5042.0	7361.7	10829.0	12690.6	14085.0	14311.9
25°	1212.1	1265.5	1447.9	1970.5	3149.3	4812.9	7782.0	12074.5	14242.9	15641.9	15601.9
27.5°	1147.7	1203.3	1323.3	1663.6	2768.9	4670.5	8202.4	13551.2	16017.7	17332.2	16834.0
30°	1127.5	1203.3	1330.0	1568.0	2497.6	4445.9	8547.2	14847.9	17383.3	18473.1	17394.4
32.5°	1112.0	1123.1	1181.0	1352.2	2239.6	4183.4	8780.6	16011.1	18720.1	19558.5	18201.8
35°	898.5	954.2	1047.6	1212.1	2088.4	4025.5	8780.6	17014.2	20036.6	20654.9	18971.3
37.5°	865.2	914.1	996.3	1136.6	2004.0	3947.7	8604.9	17981.6	21382.2	21898.2	19605.2
40°	847.5	887.4	965.2	1078.7	1968.3	3858.7	8349.1	18835.6	22696.7	23143.7	20196.8
42.5°	833.9	869.6	943.0	1043.1	1921.6	3760.9	8142.3	19520.7	23837.5	24206.7	20761.7
45°	827.3	865.2	945.2	1060.9	1828.2	3631.9	8073.3	20261.2	24776.1	25094.1	21373.3
47.5°	827.3	871.9	956.3	1098.7	1717.0	3498.5	8289.1	21237.6	25663.6	25819.3	22093.9
50°	820.6	869.6	987.4	1060.9	1554.6	3329.4	8796.3	22467.5	26624.3	26642.1	23005.7
52.5°	807.3	865.2	1063.1	1038.6	1367.8	3107.0	9481.2	24046.7	28045.5	28152.3	24433.6
55°	791.8	858.4	1043.1	987.4	1214.3	2842.4	10041.7	25966.0	30042.7	30338.6	26533.2
57.5°	771.7	849.6	1009.8	916.3	1114.2	2502.0	10244.0	27371.6	31437.1	32180.0	28899.5
60°	754.0	842.9	911.9	874.1	1051.9	2215.1	9852.7	27093.6	31341.6	32942.9	30996.9
62.5°	736.2	849.6	831.8	847.5	1023.1	2030.6	8829.6	24867.3	29755.7	32155.5	32551.5
65°	716.2	789.5	785.1	825.1	1016.4	1957.2	7319.4	21529.0	26691.1	29666.8	32918.4
67.5°	689.4	729.6	751.7	796.2	1038.6	1892.7	5907.1	17759.2	22431.9	25937.0	31005.7
70°	660.6	693.9	718.4	760.7	1025.3	1863.8	4913.0	14005.0	17799.2	21257.7	27231.4
72.5°	622.8	651.6	673.9	713.9	1012.0	1848.2	4150.1	11278.3	13288.7	15790.9	22140.7
75°	578.3	605.0	620.5	660.6	969.6	1692.5	3262.7	9543.5	9943.8	10984.7	17634.7
77.5°	527.0	547.2	560.5	605.0	858.4	1407.8	2359.8	7361.7	7722.0	7975.5	13520.1
80°	467.1	487.1	493.8	536.0	711.8	1100.9	1539.0	5437.9	5775.9	5833.7	8829.6
82.5°	398.1	418.1	418.1	458.2	582.7	791.8	1009.8	3725.3	3792.1	3987.8	6240.8
85°	320.2	335.9	335.9	355.8	451.5	591.6	693.9	1870.4	1850.5	2112.8	5406.7
87.5°	229.1	240.2	251.3	255.7	322.6	391.4	418.1	569.4	375.9	431.5	3471.8
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: P193068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1	13669.1
2.5°	15701.9	15828.7	15699.7	15606.3	15203.8	14872.4	14429.8	14202.9
5°	16878.5	17200.9	17092.0	16700.5	15859.8	14914.7	13840.4	13355.6
7.5°	16736.2	17485.7	17503.5	16771.8	15533.0	14140.7	12686.1	11996.6
10°	15628.6	16587.0	16860.7	16151.1	14836.8	13279.9	11611.8	10824.6
12.5°	14391.9	15330.5	15539.6	15294.8	14196.3	12632.7	10940.2	10168.4
15°	13380.0	13800.3	14049.4	14262.9	13646.9	12374.7	10902.4	10055.0
17.5°	12763.8	12717.2	12788.4	13159.8	13264.4	12670.5	11480.6	10546.6
20°	12541.6	11827.7	11809.9	12321.3	13084.3	13375.5	12610.4	11489.6
22.5°	12663.8	11507.3	11360.6	11967.7	13179.8	14391.9	14091.7	12812.9
25°	13086.4	11534.1	11416.2	12003.3	13526.9	15475.1	15690.8	14525.4
27.5°	13751.4	11703.1	11547.4	12150.0	13987.2	16384.7	17265.4	16184.6
30°	14383.1	11996.6	11803.2	12439.1	14407.5	16745.0	18230.7	17479.0
32.5°	15150.3	12546.0	12205.7	12970.8	14928.0	17318.8	19091.4	18550.9
35°	15902.1	13328.9	12906.2	13791.5	15508.5	18032.8	20074.4	19921.0
37.5°	16727.3	14352.0	14002.7	14852.3	16302.5	18706.6	21328.8	21526.8
40°	17608.0	15708.6	15294.8	16400.3	17534.6	19551.8	22638.8	23114.8
42.5°	18495.4	17214.4	16720.6	17841.5	18889.1	20385.8	23759.7	24464.8
45°	19511.7	18849.0	18615.5	19827.6	20190.1	21179.8	24587.0	25463.4
47.5°	20695.1	20703.9	21079.7	21564.6	21502.3	22078.3	25418.8	26355.2
50°	22076.2	23019.1	23848.7	24171.2	22854.6	23043.6	26573.2	27549.5
52.5°	23735.3	25788.1	26815.6	26604.3	24311.3	24222.3	28401.4	29195.3
55°	25810.4	28719.5	29740.3	29589.0	25986.0	25828.2	30678.8	31141.4
57.5°	28212.3	31559.5	32498.1	31817.5	27996.6	27589.6	32562.6	32660.5
60°	30322.9	33810.3	34633.2	33879.2	30024.9	29464.5	33739.2	33265.4
62.5°	31497.3	34573.1	35151.4	34339.6	31415.0	31461.6	33997.1	32938.5
65°	30972.4	32644.9	32831.8	32765.0	31057.0	32620.5	33069.7	31428.3
67.5°	28098.9	27769.8	28083.4	28517.0	27987.7	31094.7	30501.0	28138.9
70°	23036.9	21228.7	21853.7	22145.1	22385.2	26757.8	26473.1	22919.0
72.5°	17361.1	14872.4	15366.1	15306.0	16418.1	21462.3	20588.2	16851.8
75°	12301.3	10084.0	10146.3	10121.8	11456.2	16791.7	14908.0	11529.6
77.5°	8607.1	7306.0	7339.4	7477.2	7701.9	12663.8	10651.0	8422.6
80°	5918.2	5544.6	5729.2	5740.4	5337.8	8507.0	7868.8	6759.0
82.5°	4408.1	3854.3	3809.9	3874.4	4183.4	6892.4	6047.3	4688.4
85°	3609.7	2281.9	1834.9	2299.7	3707.5	6825.7	4016.7	2473.2
87.5°	2032.8	1083.1	489.3	907.4	1479.1	4519.3	1161.0	315.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)