

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: P193028

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193028
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA 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: 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



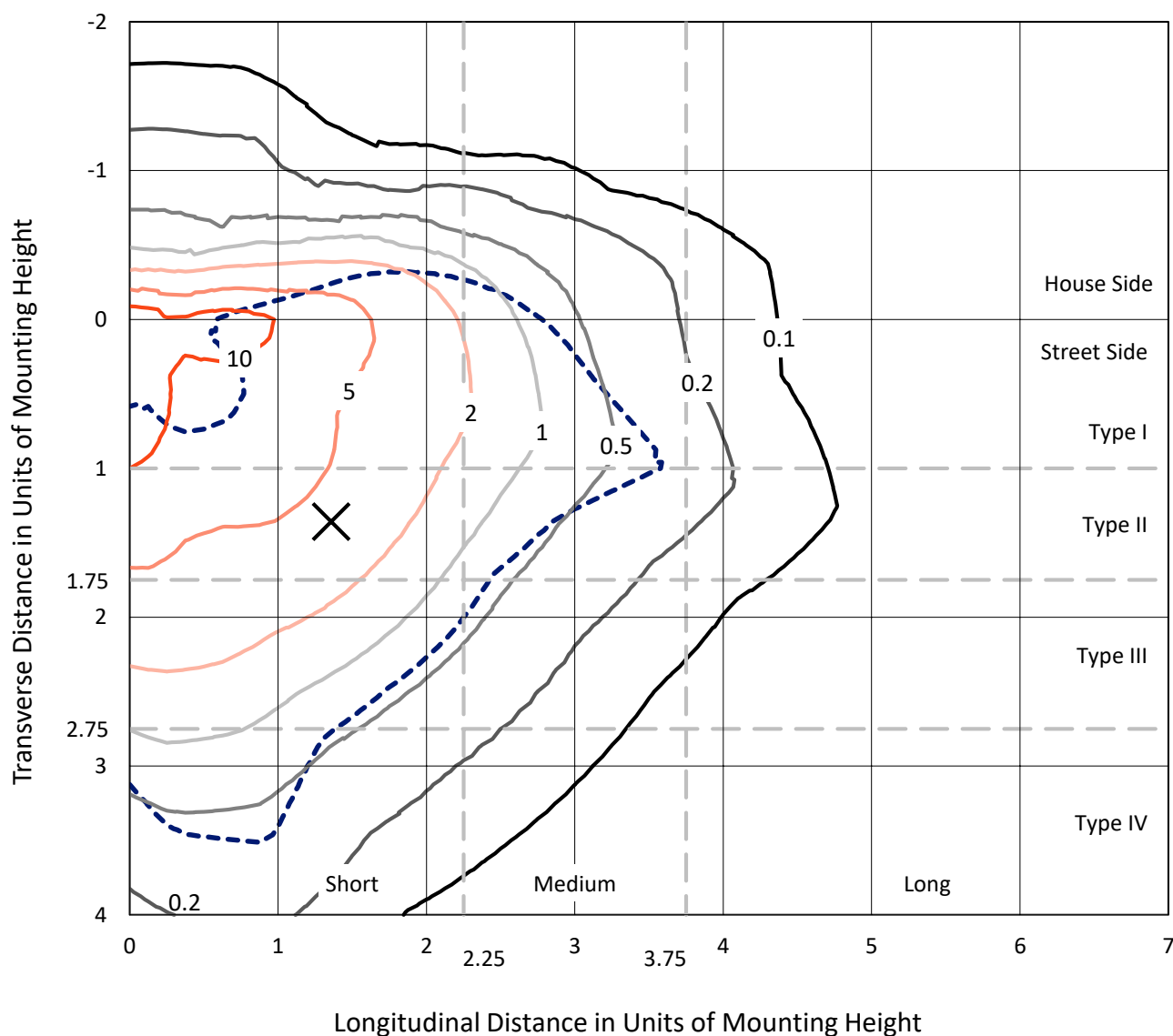
REPORT NUMBER: P193028

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

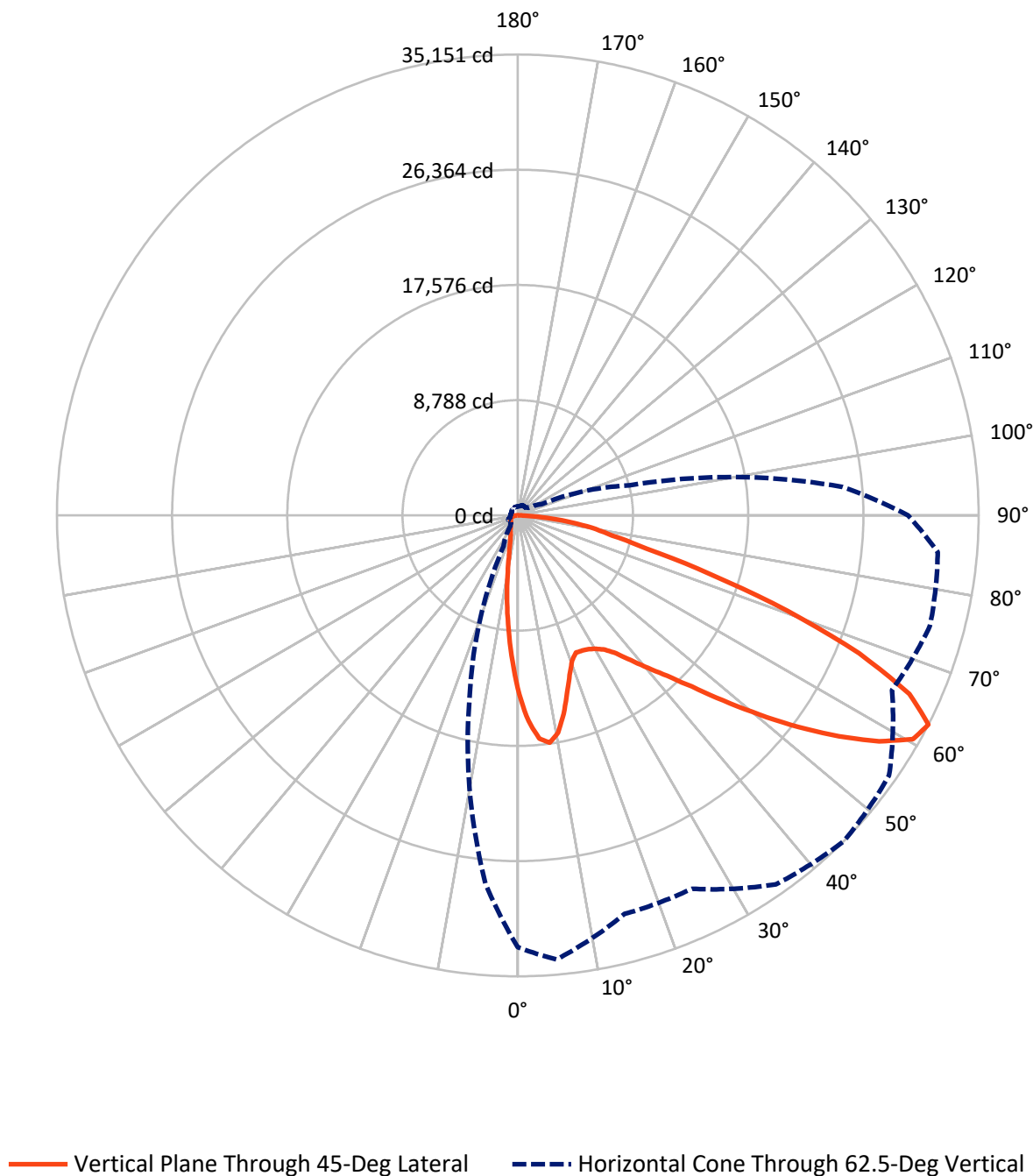


Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193028

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

Luminous Intensity Polar Plot



REPORT NUMBER: P193028

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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: P193028

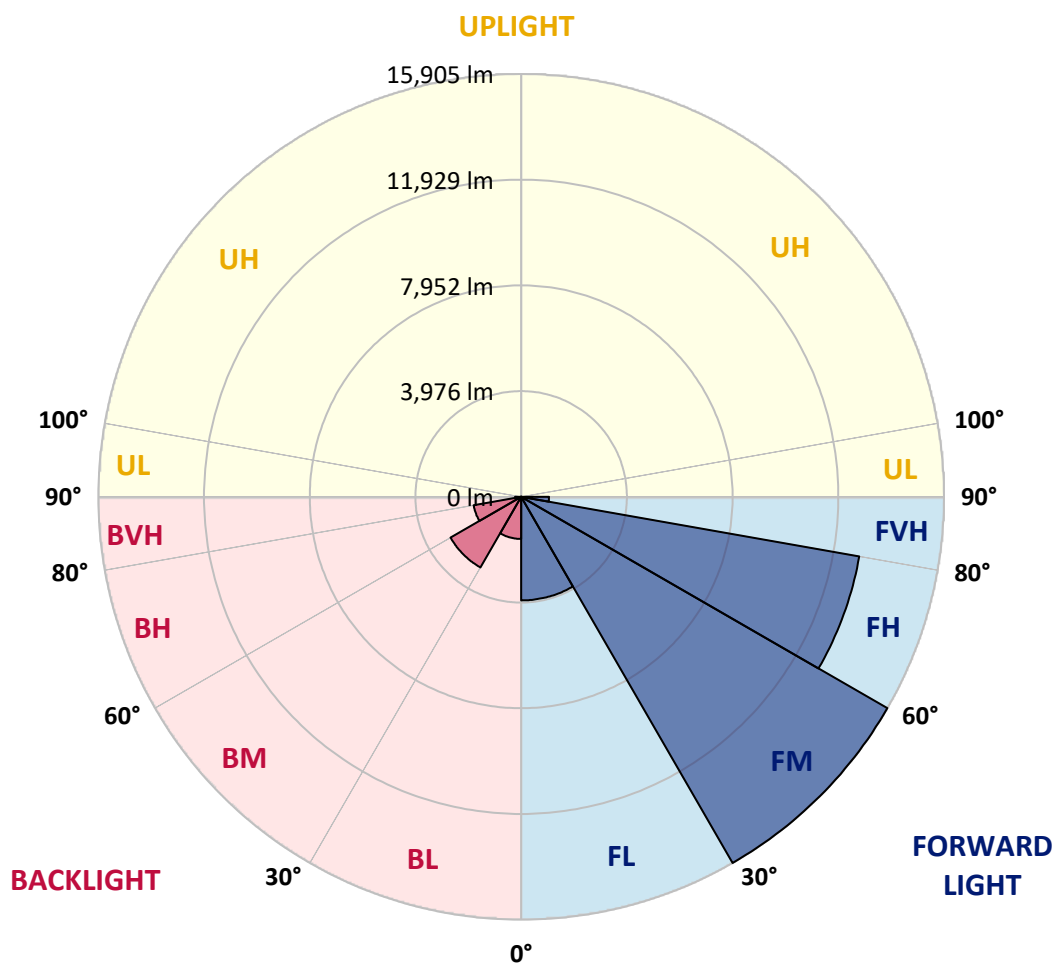
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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: P193028

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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	14429.8	14872.4	15203.8	15606.3	15699.7	15828.7	15701.9	15477.3	15179.3	15081.4
5°	13355.6	13840.4	14914.7	15859.8	16700.5	17092.0	17200.9	16878.5	16226.8	15370.6	14847.9
7.5°	11996.6	12686.1	14140.7	15533.0	16771.8	17503.5	17485.7	16736.2	15537.3	14142.8	13304.4
10°	10824.6	11611.8	13279.9	14836.8	16151.1	16860.7	16587.0	15628.6	14198.5	12592.6	11683.0
12.5°	10168.4	10940.2	12632.7	14196.3	15294.8	15539.6	15330.5	14391.9	13044.1	11420.6	10624.4
15°	10055.0	10902.4	12374.7	13646.9	14262.9	14049.4	13800.3	13380.0	12428.1	11042.5	10212.9
17.5°	10546.6	11480.6	12670.5	13264.4	13159.8	12788.4	12717.2	12763.8	12534.9	11462.8	10506.5
20°	11489.6	12610.4	13375.5	13084.3	12321.3	11809.9	11827.7	12541.6	13219.9	12528.2	11436.1
22.5°	12812.9	14091.7	14391.9	13179.8	11967.7	11360.6	11507.3	12663.8	14311.9	14085.0	12690.6
25°	14525.4	15690.8	15475.1	13526.9	12003.3	11416.2	11534.1	13086.4	15601.9	15641.9	14242.9
27.5°	16184.6	17265.4	16384.7	13987.2	12150.0	11547.4	11703.1	13751.4	16834.0	17332.2	16017.7
30°	17479.0	18230.7	16745.0	14407.5	12439.1	11803.2	11996.6	14383.1	17394.4	18473.1	17383.3
32.5°	18550.9	19091.4	17318.8	14928.0	12970.8	12205.7	12546.0	15150.3	18201.8	19558.5	18720.1
35°	19921.0	20074.4	18032.8	15508.5	13791.5	12906.2	13328.9	15902.1	18971.3	20654.9	20036.6
37.5°	21526.8	21328.8	18706.6	16302.5	14852.3	14002.7	14352.0	16727.3	19605.2	21898.2	21382.2
40°	23114.8	22638.8	19551.8	17534.6	16400.3	15294.8	15708.6	17608.0	20196.8	23143.7	22696.7
42.5°	24464.8	23759.7	20385.8	18889.1	17841.5	16720.6	17214.4	18495.4	20761.7	24206.7	23837.5
45°	25463.4	24587.0	21179.8	20190.1	19827.6	18615.5	18849.0	19511.7	21373.3	25094.1	24776.1
47.5°	26355.2	25418.8	22078.3	21502.3	21564.6	21079.7	20703.9	20695.1	22093.9	25819.3	25663.6
50°	27549.5	26573.2	23043.6	22854.6	24171.2	23848.7	23019.1	22076.2	23005.7	26642.1	26624.3
52.5°	29195.3	28401.4	24222.3	24311.3	26604.3	26815.6	25788.1	23735.3	24433.6	28152.3	28045.5
55°	31141.4	30678.8	25828.2	25986.0	29589.0	29740.3	28719.5	25810.4	26533.2	30338.6	30042.7
57.5°	32660.5	32562.6	27589.6	27996.6	31817.5	32498.1	31559.5	28212.3	28899.5	32180.0	31437.1
60°	33265.4	33739.2	29464.5	30024.9	33879.2	34633.2	33810.3	30322.9	30996.9	32942.9	31341.6
62.5°	32938.5	33997.1	31461.6	31415.0	34339.6	35151.4	34573.1	31497.3	32551.5	32155.5	29755.7
65°	31428.3	33069.7	32620.5	31057.0	32765.0	32831.8	32644.9	30972.4	32918.4	29666.8	26691.1
67.5°	28138.9	30501.0	31094.7	27987.7	28517.0	28083.4	27769.8	28098.9	31005.7	25937.0	22431.9
70°	22919.0	26473.1	26757.8	22385.2	22145.1	21853.7	21228.7	23036.9	27231.4	21257.7	17799.2
72.5°	16851.8	20588.2	21462.3	16418.1	15306.0	15366.1	14872.4	17361.1	22140.7	15790.9	13288.7
75°	11529.6	14908.0	16791.7	11456.2	10121.8	10146.3	10084.0	12301.3	17634.7	10984.7	9943.8
77.5°	8422.6	10651.0	12663.8	7701.9	7477.2	7339.4	7306.0	8607.1	13520.1	7975.5	7722.0
80°	6759.0	7868.8	8507.0	5337.8	5740.4	5729.2	5544.6	5918.2	8829.6	5833.7	5775.9
82.5°	4688.4	6047.3	6892.4	4183.4	3874.4	3809.9	3854.3	4408.1	6240.8	3987.8	3792.1
85°	2473.2	4016.7	6825.7	3707.5	2299.7	1834.9	2281.9	3609.7	5406.7	2112.8	1850.5
87.5°	315.9	1161.0	4519.3	1479.1	907.4	489.3	1083.1	2032.8	3471.8	431.5	375.9
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: P193028

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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°	14830.1	14534.3	14147.3	13789.3	13417.8	13048.7	12566.0	12263.5	12054.5	12014.4	11925.4
5°	14469.7	13486.8	12743.9	12101.1	11518.4	10695.5	10239.7	9861.5	9659.2	9639.1	9590.2
7.5°	12808.5	11451.7	10448.7	9539.0	8713.9	8048.9	7315.0	6972.5	6832.3	6865.8	6899.0
10°	11080.3	9563.5	8411.5	7481.7	6754.5	6194.0	5604.7	5206.5	4930.8	4875.1	4864.0
12.5°	9817.1	8153.5	7034.7	6378.7	5816.0	5288.8	4663.8	4194.6	3836.5	3714.2	3631.9
15°	9283.2	7463.9	6291.9	5584.7	4964.0	4294.7	3714.2	3222.7	2893.5	2786.7	2726.7
17.5°	9396.8	7272.8	5780.4	4875.1	4081.2	3382.7	2651.0	2230.7	2032.8	1981.6	1981.6
20°	9992.8	7237.2	5357.7	4221.2	3231.6	2422.1	1821.5	1581.3	1516.8	1510.2	1527.9
22.5°	10829.0	7361.7	5042.0	3654.1	2511.0	1768.2	1419.0	1330.0	1301.1	1307.8	1327.7
25°	12074.5	7782.0	4812.9	3149.3	1970.5	1447.9	1265.5	1212.1	1198.8	1216.6	1241.0
27.5°	13551.2	8202.4	4670.5	2768.9	1663.6	1323.3	1203.3	1147.7	1156.5	1178.8	1201.0
30°	14847.9	8547.2	4445.9	2497.6	1568.0	1330.0	1203.3	1127.5	1118.7	1123.1	1129.8
32.5°	16011.1	8780.6	4183.4	2239.6	1352.2	1181.0	1123.1	1112.0	1063.1	1045.3	1047.6
35°	17014.2	8780.6	4025.5	2088.4	1212.1	1047.6	954.2	898.5	874.1	876.3	900.8
37.5°	17981.6	8604.9	3947.7	2004.0	1136.6	996.3	914.1	865.2	831.8	825.1	829.6
40°	18835.6	8349.1	3858.7	1968.3	1078.7	965.2	887.4	847.5	811.8	800.7	802.8
42.5°	19520.7	8142.3	3760.9	1921.6	1043.1	943.0	869.6	833.9	794.0	782.9	780.6
45°	20261.2	8073.3	3631.9	1828.2	1060.9	945.2	865.2	827.3	787.3	774.0	769.5
47.5°	21237.6	8289.1	3498.5	1717.0	1098.7	956.3	871.9	827.3	785.1	774.0	769.5
50°	22467.5	8796.3	3329.4	1554.6	1060.9	987.4	869.6	820.6	785.1	774.0	765.1
52.5°	24046.7	9481.2	3107.0	1367.8	1038.6	1063.1	865.2	807.3	774.0	758.4	742.9
55°	25966.0	10041.7	2842.4	1214.3	987.4	1043.1	858.4	791.8	756.2	733.9	720.6
57.5°	27371.6	10244.0	2502.0	1114.2	916.3	1009.8	849.6	771.7	733.9	716.2	698.3
60°	27093.6	9852.7	2215.1	1051.9	874.1	911.9	842.9	754.0	713.9	700.6	685.0
62.5°	24867.3	8829.6	2030.6	1023.1	847.5	831.8	849.6	736.2	696.1	682.8	678.4
65°	21529.0	7319.4	1957.2	1016.4	825.1	785.1	789.5	716.2	676.1	665.0	660.6
67.5°	17759.2	5907.1	1892.7	1038.6	796.2	751.7	729.6	689.4	656.1	644.9	636.1
70°	14005.0	4913.0	1863.8	1025.3	760.7	718.4	693.9	660.6	631.6	620.5	613.8
72.5°	11278.3	4150.1	1848.2	1012.0	713.9	673.9	651.6	622.8	591.6	587.2	580.5
75°	9543.5	3262.7	1692.5	969.6	660.6	620.5	605.0	578.3	547.2	547.2	542.7
77.5°	7361.7	2359.8	1407.8	858.4	605.0	560.5	547.2	527.0	491.5	498.2	495.9
80°	5437.9	1539.0	1100.9	711.8	536.0	493.8	487.1	467.1	429.3	438.1	438.1
82.5°	3725.3	1009.8	791.8	582.7	458.2	418.1	418.1	398.1	355.8	360.3	373.6
85°	1870.4	693.9	591.6	451.5	355.8	335.9	335.9	320.2	277.9	280.2	298.1
87.5°	569.4	418.1	391.4	322.6	255.7	251.3	240.2	229.1	202.3	200.2	211.3
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: P193028

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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°	11789.8	11663.0	11509.6	11171.5	11058.0	11051.3	11153.7	11046.9	11251.5	11164.8	11260.5
5°	9507.8	9383.3	9212.0	8780.6	8518.2	8340.3	8255.7	8006.6	8186.8	8055.5	8164.5
7.5°	6992.5	7021.4	6907.9	6654.4	6082.8	5795.8	5626.9	5475.6	5606.8	5593.5	5802.6
10°	4915.2	4993.0	4913.0	4657.1	4194.6	4036.7	4067.8	4128.0	4299.2	4388.1	4710.6
12.5°	3538.5	3534.1	3482.8	3253.8	2949.1	2966.9	3093.6	3198.2	3356.1	3449.6	3778.7
15°	2642.2	2602.1	2579.9	2393.1	2219.6	2257.4	2319.7	2330.8	2430.9	2486.5	2753.5
17.5°	1997.3	2017.3	2041.7	1908.2	1777.0	1752.5	1703.7	1643.6	1672.5	1683.5	1817.1
20°	1585.8	1665.8	1725.9	1632.5	1499.0	1427.8	1365.6	1325.6	1325.6	1323.3	1361.2
22.5°	1385.6	1443.5	1507.9	1443.5	1323.3	1261.1	1225.5	1194.3	1189.9	1189.9	1225.5
25°	1276.5	1318.9	1381.1	1336.7	1247.7	1201.0	1167.7	1127.5	1112.0	1107.6	1132.0
27.5°	1223.2	1241.0	1272.3	1232.1	1156.5	1134.3	1125.4	1089.8	1069.7	1058.6	1083.1
30°	1132.0	1127.5	1129.8	1089.8	1029.8	1027.5	1043.1	1049.8	1043.1	1040.9	1078.7
32.5°	1047.6	1038.6	1036.5	1000.9	945.2	931.9	945.2	958.5	974.1	996.3	1040.9
35°	940.8	963.0	976.3	945.2	878.6	838.4	822.9	798.4	785.1	785.1	836.3
37.5°	856.3	907.4	927.4	898.5	825.1	769.5	742.9	738.4	740.7	749.5	798.4
40°	827.3	865.2	883.0	854.1	780.6	729.6	713.9	709.5	713.9	727.2	776.2
42.5°	809.6	836.3	833.9	798.4	738.4	702.7	693.9	689.4	693.9	707.2	760.7
45°	794.0	811.8	794.0	751.7	696.1	678.4	680.5	678.4	682.8	696.1	747.4
47.5°	780.6	787.3	765.1	722.9	665.0	660.6	669.4	676.1	680.5	691.7	745.0
50°	760.7	760.7	740.7	696.1	638.3	640.5	651.6	667.2	669.4	682.8	725.1
52.5°	736.2	733.9	720.6	678.4	616.1	622.8	622.8	640.5	644.9	660.6	705.0
55°	716.2	711.8	705.0	665.0	596.0	607.2	600.5	607.2	618.3	633.8	682.8
57.5°	698.3	689.4	689.4	653.9	580.5	585.0	569.4	578.3	591.6	605.0	656.1
60°	680.5	671.6	676.1	638.3	556.0	551.5	544.8	562.6	567.2	582.7	633.8
62.5°	660.6	653.9	656.1	620.5	538.2	527.0	527.0	542.7	544.8	567.2	616.1
65°	644.9	636.1	633.8	602.7	518.2	504.9	511.6	518.2	522.7	544.8	591.6
67.5°	629.5	611.7	611.7	587.2	495.9	482.6	495.9	493.8	500.4	520.4	558.2
70°	609.4	585.0	587.2	576.1	473.7	458.2	469.3	467.1	471.5	484.9	522.7
72.5°	578.3	558.2	562.6	558.2	451.5	429.3	433.6	433.6	433.6	444.8	484.9
75°	538.2	522.7	536.0	547.2	424.8	393.7	398.1	398.1	391.4	398.1	447.1
77.5°	489.3	480.4	524.9	509.2	393.7	355.8	355.8	351.4	338.0	347.0	400.3
80°	436.0	429.3	484.9	426.9	358.1	309.1	304.8	293.6	280.2	287.0	340.3
82.5°	380.3	373.6	407.0	326.9	309.1	255.7	244.6	224.6	211.3	218.0	266.9
85°	311.4	311.4	313.6	246.9	235.8	195.7	182.4	155.7	140.1	144.5	191.3
87.5°	222.5	229.1	211.3	169.1	140.1	108.9	100.1	84.5	71.1	82.3	100.1
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: P193028

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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°	11749.7	11994.4	12272.4	12628.3	12932.9	13433.4	13913.7	14202.9
5°	8785.1	9192.1	9699.2	10350.7	10957.9	11869.8	12775.0	13355.6
7.5°	6287.5	6723.4	7270.4	8084.5	8943.0	10106.2	11302.8	11996.6
10°	5202.1	5649.1	6109.6	6659.0	7361.7	8627.1	10041.7	10824.6
12.5°	4303.6	4781.7	5277.8	5856.0	6507.6	7637.4	9267.7	10168.4
15°	3293.8	3827.6	4412.6	5144.3	5960.5	7266.1	9076.3	10055.0
17.5°	2257.4	2853.6	3571.9	4474.8	5473.5	7145.9	9418.9	10546.6
20°	1554.6	1988.3	2755.6	3814.2	5015.3	7130.4	10077.3	11489.6
22.5°	1301.1	1494.5	2055.0	3207.1	4670.5	7321.7	11098.1	12812.9
25°	1203.3	1318.9	1641.4	2680.0	4419.2	7762.0	12503.7	14525.4
27.5°	1145.4	1249.9	1490.1	2335.3	4221.2	8273.5	13871.5	16184.6
30°	1167.7	1274.4	1447.9	2159.6	3952.1	8700.6	15085.9	17479.0
32.5°	1051.9	1098.7	1241.0	2004.0	3758.6	9058.6	16148.9	18550.9
35°	896.3	978.6	1107.6	1930.5	3763.1	9298.8	17307.8	19921.0
37.5°	854.1	936.4	1029.8	1903.9	3814.2	9554.6	18637.7	21526.8
40°	827.3	902.9	983.0	1888.2	3863.2	9788.1	19941.0	23114.8
42.5°	809.6	878.6	978.6	1834.9	3887.7	9997.2	21013.0	24464.8
45°	807.3	878.6	996.3	1781.5	3925.4	10221.9	21911.5	25463.4
47.5°	809.6	907.4	963.0	1717.0	3925.4	10597.7	22965.8	26355.2
50°	800.7	956.3	927.4	1625.8	3834.4	11309.4	24411.4	27549.5
52.5°	796.2	949.7	858.4	1485.7	3676.3	12439.1	26264.1	29195.3
55°	785.1	916.3	809.6	1276.5	3491.8	13671.4	28247.9	31141.4
57.5°	774.0	811.8	782.9	1094.2	3207.1	14538.7	29613.5	32660.5
60°	867.4	709.5	760.7	1005.3	2826.7	14776.8	29560.1	33265.4
62.5°	802.8	665.0	731.7	985.3	2560.0	14109.5	28194.6	32938.5
65°	629.5	636.1	702.7	1043.1	2488.7	12341.4	25774.7	31428.3
67.5°	576.1	607.2	673.9	1116.5	2495.4	9881.5	22158.5	28138.9
70°	542.7	576.1	640.5	1154.4	2513.2	7366.2	17518.9	22919.0
72.5°	504.9	533.7	602.7	1161.0	2397.5	5351.1	13502.4	16851.8
75°	460.4	487.1	549.3	1012.0	1986.2	3712.0	10328.6	11529.6
77.5°	409.1	429.3	482.6	780.6	1474.6	2375.3	7753.1	8422.6
80°	349.2	360.3	404.8	571.5	1009.8	1485.7	6134.1	6759.0
82.5°	280.2	284.7	313.6	429.3	656.1	954.2	4107.8	4688.4
85°	198.0	198.0	215.8	311.4	447.1	605.0	2230.7	2473.2
87.5°	93.4	95.6	95.6	171.2	233.5	306.9	513.7	315.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)