

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: P193055

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193055
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-07-LED-E1-SLR-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 23577.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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



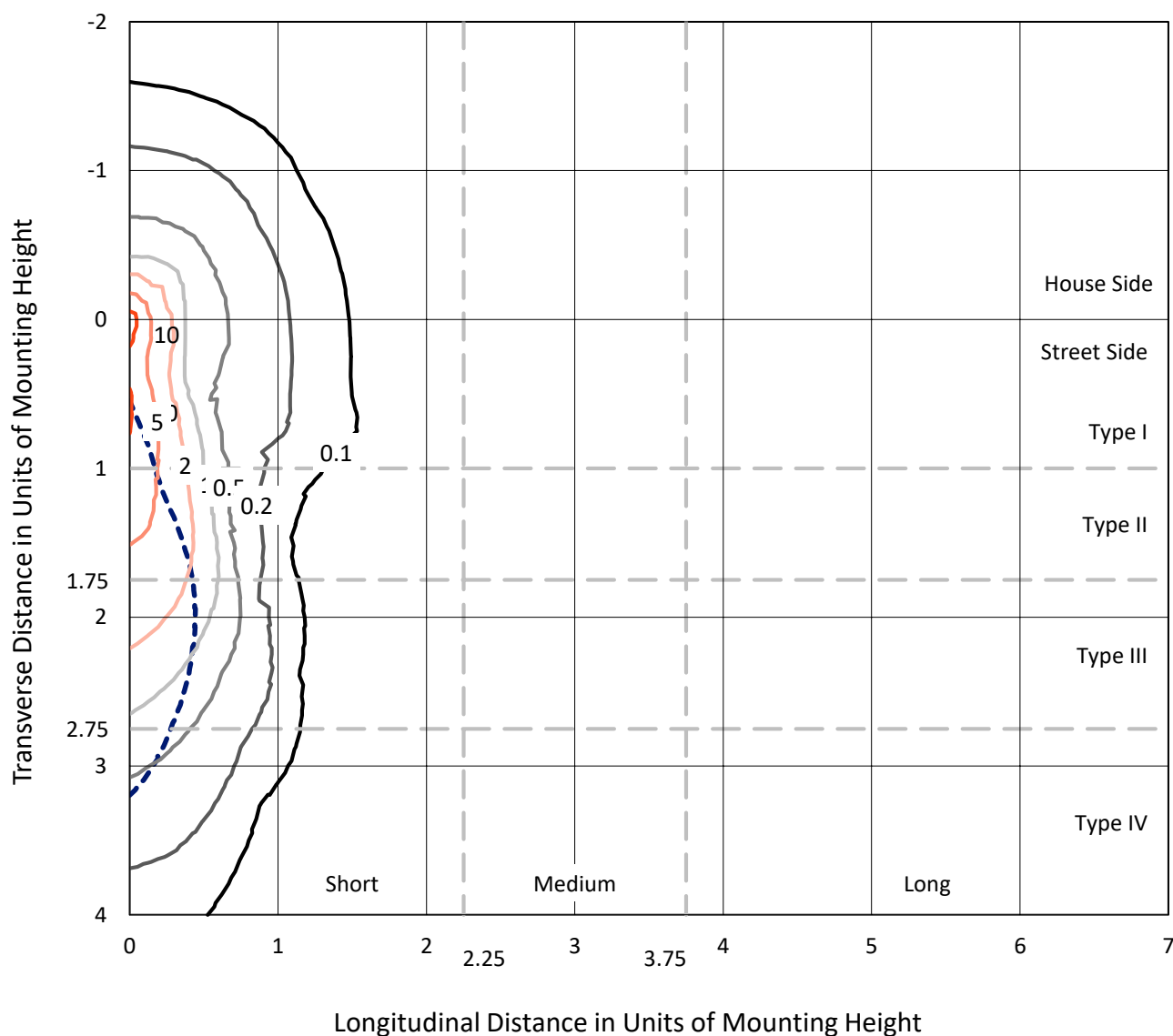
REPORT NUMBER: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

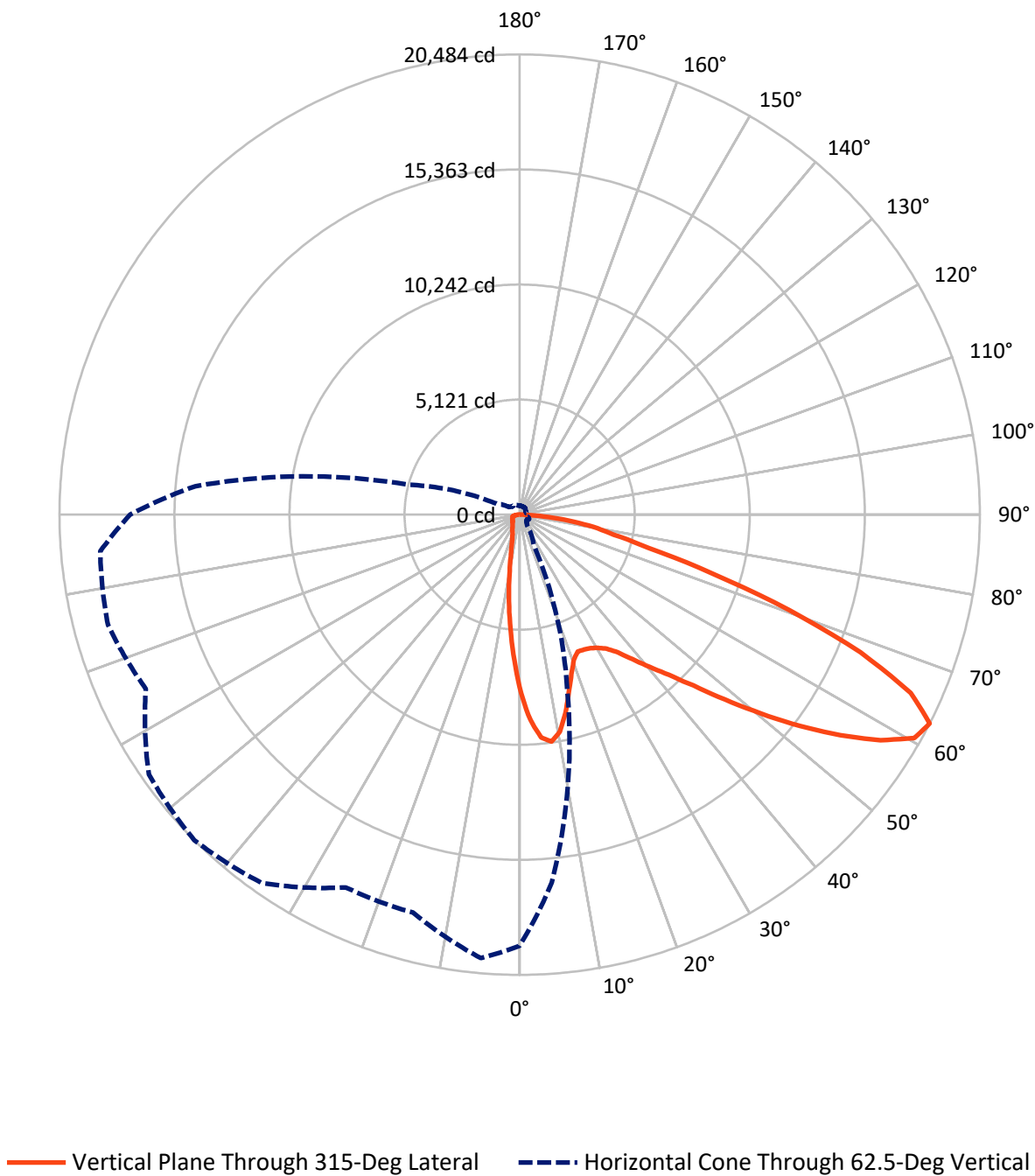


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.7	0.0	3901.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19675.4	0.0	19675.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	23577.1	0.0	23577.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.9	2.5
10°-20°	1063.3	4.5
20°-30°	1550.3	6.6
30°-40°	2387.7	10.1
40°-50°	3514.0	14.9
50°-60°	5154.3	21.9
60°-70°	5761.8	24.4
70°-80°	2820.9	12.0
80°-90°	744.8	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°	23577.1	100.0
0°-180°	23577.1	100.0

Coefficient of Utilization



REPORT NUMBER: P193055

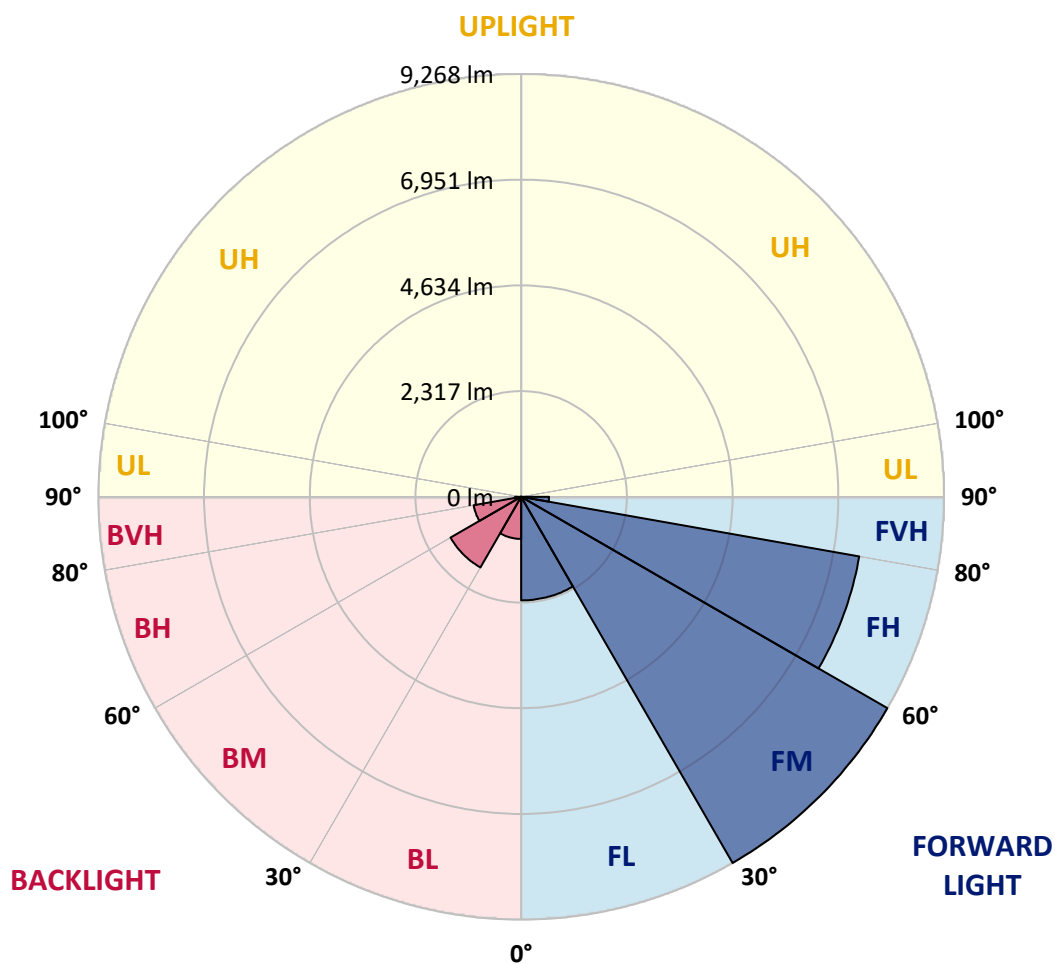
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.4	9.6			
FM	(30°-60°)	9268.4	39.3			
FH	(60°-80°)	7525.0	31.9			G4/12000
FVH	(80°-90°)	611.7	2.6			G4/750
BL	(0°-30°)	923.1	3.9	B2/1000		
BM	(30°-60°)	1787.7	7.6	B2/2500		
BH	(60°-80°)	1057.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	133.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	8276.6	8108.1	7828.2	7536.6	7359.0	7151.7	6989.7	6847.1	6562.0	6506.3	6556.7
5°	7782.9	7444.6	6917.1	6385.6	6031.8	5652.1	5356.7	5119.5	4757.8	4694.4	4770.8
7.5°	6991.0	6586.5	5889.3	5211.4	4711.2	4236.8	3918.0	3664.0	3381.5	3259.6	3267.4
10°	6308.0	5851.7	5027.4	4289.9	3880.5	3560.3	3292.0	3031.5	2745.0	2557.1	2505.4
12.5°	5925.5	5400.6	4450.6	3792.3	3412.5	3075.5	2786.5	2507.8	2202.0	2010.2	1955.7
15°	5859.5	5289.2	4234.3	3473.5	2997.7	2571.4	2230.5	1919.4	1604.5	1449.0	1416.5
17.5°	6146.0	5488.8	4164.2	3189.6	2607.7	2081.5	1662.8	1315.5	1058.8	981.1	974.6
20°	6695.4	5872.4	4155.1	2922.5	2222.8	1605.8	1158.7	906.0	793.2	771.2	772.5
22.5°	7466.7	6467.4	4266.7	2721.7	1868.9	1197.6	870.9	758.1	714.1	693.4	693.4
25°	8464.6	7286.5	4523.3	2575.2	1561.8	956.4	768.5	701.1	659.7	645.4	648.0
27.5°	9431.5	8083.5	4821.4	2460.0	1360.9	868.4	728.4	667.5	631.2	616.9	623.5
30°	10185.8	8791.2	5070.1	2303.0	1258.4	843.7	742.6	680.4	628.6	606.6	607.8
32.5°	10810.4	9410.7	5278.9	2190.3	1167.8	723.2	640.3	613.1	606.6	580.6	567.7
35°	11608.8	10085.9	5418.8	2193.0	1125.0	645.4	570.3	522.3	487.3	457.5	457.5
37.5°	12544.6	10861.0	5567.9	2222.8	1109.4	600.1	545.6	497.6	465.3	436.8	431.6
40°	13470.0	11620.5	5704.0	2251.3	1100.4	572.8	526.2	482.2	452.4	423.8	416.1
42.5°	14256.7	12245.2	5825.8	2265.5	1069.2	570.3	512.0	471.8	443.3	412.1	404.4
45°	14838.6	12768.8	5956.7	2287.6	1038.2	580.6	512.0	470.5	435.5	405.7	397.9
47.5°	15358.3	13383.1	6175.8	2287.6	1000.6	561.1	528.9	471.8	434.2	403.0	396.6
50°	16054.3	14225.5	6590.5	2234.5	947.4	540.5	557.3	466.5	422.5	397.9	390.2
52.5°	17013.5	15305.1	7249.0	2142.3	865.8	500.3	553.4	464.1	410.9	384.9	375.9
55°	18147.4	16461.3	7966.8	2034.9	743.9	471.8	533.9	457.5	397.9	369.4	360.3
57.5°	19032.6	17257.1	8472.4	1868.9	637.6	456.2	473.1	451.0	382.3	352.6	344.7
60°	19385.3	17226.0	8611.0	1647.3	585.8	443.3	413.4	505.5	369.4	339.6	330.5
62.5°	19194.6	16430.2	8222.2	1491.7	574.1	426.4	387.6	467.8	359.0	330.5	317.5
65°	18314.7	15020.1	7191.9	1450.3	607.8	409.5	370.7	366.8	344.7	317.5	304.7
67.5°	16397.7	12912.7	5758.4	1454.1	650.6	392.7	353.8	335.7	325.3	303.3	291.6
70°	13356.0	10209.0	4292.6	1464.5	672.7	373.2	335.7	316.2	304.7	282.6	274.8
72.5°	9820.2	7868.5	3118.4	1397.2	676.6	351.3	311.1	294.2	282.6	259.2	252.7
75°	6718.8	6018.9	2163.2	1157.4	589.7	320.1	283.8	268.2	260.5	231.9	228.2
77.5°	4908.2	4518.1	1384.2	859.4	454.9	281.3	250.1	238.5	233.3	202.2	197.0
80°	3938.7	3574.5	865.8	588.4	333.1	235.9	210.0	203.4	198.3	167.1	163.4
82.5°	2732.1	2393.9	556.0	382.3	250.1	182.8	165.8	163.4	155.4	127.1	123.1
85°	1441.2	1299.9	352.6	260.5	181.5	125.7	115.4	115.4	111.5	84.2	81.6
87.5°	184.0	299.4	178.8	136.1	99.8	55.7	55.7	54.4	58.4	48.0	41.5
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: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	6437.5	6499.8	6440.2	6444.0	6510.1	6707.1	6796.6	6870.4	6949.4	7001.4	7024.6
5°	4665.8	4811.0	4860.2	4963.8	5116.8	5368.4	5468.1	5540.6	5588.6	5617.1	5628.8
7.5°	3190.9	3279.1	3377.5	3544.7	3877.8	4025.5	4091.6	4074.9	4020.4	4001.0	3981.5
10°	2405.5	2370.5	2352.4	2444.3	2714.0	2863.0	2909.7	2864.3	2834.5	2841.0	2873.4
12.5°	1863.8	1802.8	1728.9	1718.5	1896.0	2029.6	2059.4	2062.0	2116.5	2164.4	2235.7
15°	1358.3	1351.7	1315.5	1293.5	1394.5	1503.4	1516.4	1539.7	1588.9	1623.9	1686.2
17.5°	957.7	992.7	1021.2	1035.6	1112.0	1189.9	1175.5	1163.8	1154.8	1154.8	1184.6
20°	772.5	795.7	832.1	873.5	951.3	1005.7	970.8	924.2	890.4	880.0	883.9
22.5°	696.0	714.1	734.9	771.2	841.2	878.8	841.2	807.4	773.8	762.1	758.1
25°	657.0	680.4	700.0	727.1	778.9	804.8	768.5	743.9	723.2	709.0	698.6
27.5°	635.2	655.8	661.0	673.9	718.1	741.4	723.2	712.8	700.0	686.9	673.9
30°	611.8	607.8	598.7	600.1	635.2	658.4	657.0	659.7	658.4	654.5	651.9
32.5°	558.7	550.7	543.0	550.7	583.2	603.9	605.3	610.4	610.4	609.1	619.5
35°	465.3	479.5	488.6	512.0	550.7	569.0	561.1	548.3	524.9	510.7	509.3
37.5°	430.3	432.8	448.4	480.8	523.6	540.5	528.9	499.0	483.5	480.8	484.7
40°	413.4	416.1	425.1	454.9	497.6	514.5	504.1	482.2	467.8	466.5	473.1
42.5°	401.7	404.4	409.5	430.3	465.3	485.9	487.3	471.8	454.9	456.2	462.7
45°	395.3	396.6	395.3	405.7	438.0	462.7	473.1	462.7	448.4	451.0	458.8
47.5°	394.0	390.2	384.9	387.6	421.2	445.9	458.8	454.9	448.4	451.0	457.5
50°	388.9	379.7	373.2	371.9	405.7	431.6	443.3	443.3	445.9	451.0	457.5
52.5°	373.2	362.8	362.8	359.0	395.3	419.9	427.7	429.0	432.8	442.0	451.0
55°	353.8	349.9	353.8	347.3	387.6	410.9	414.7	417.4	419.9	427.7	440.7
57.5°	336.9	331.8	340.9	338.2	381.1	401.7	401.7	407.0	407.0	417.4	427.7
60°	327.9	317.5	321.4	324.1	371.9	394.0	391.3	396.6	399.3	408.3	416.1
62.5°	316.2	307.1	307.1	313.7	361.6	382.3	381.1	384.9	395.3	397.9	405.7
65°	302.0	298.1	294.2	302.0	351.3	369.4	370.7	375.9	384.9	387.6	394.0
67.5°	287.7	289.0	281.3	289.0	342.2	356.4	356.4	366.8	370.7	375.9	382.3
70°	272.2	273.4	267.0	276.1	335.7	342.2	340.9	355.1	357.8	361.6	368.1
72.5°	252.7	252.7	250.1	263.1	325.3	327.9	325.3	336.9	338.2	342.2	344.7
75°	231.9	231.9	229.5	247.6	318.8	312.4	304.7	313.7	316.2	318.8	318.8
77.5°	204.8	207.4	207.4	229.5	296.7	305.8	279.9	285.1	289.0	290.3	286.5
80°	171.1	177.5	180.2	208.6	248.9	282.6	250.1	254.0	255.3	255.3	250.1
82.5°	130.9	142.6	149.0	180.2	190.5	237.2	217.8	221.6	217.8	210.0	207.4
85°	90.6	106.3	114.0	137.3	143.9	182.8	181.5	181.5	173.7	163.4	162.0
87.5°	49.2	58.4	63.5	81.6	98.6	123.1	133.6	129.6	123.1	116.7	117.9
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: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	7146.5	7322.8	7604.0	7819.1	8035.6	8244.2	8469.8	8642.2	8788.6	8845.6	9019.4
5°	5746.7	5967.0	6232.8	6712.4	7051.9	7426.5	7859.3	8432.2	8652.5	8957.1	9456.1
7.5°	4063.2	4262.8	4690.5	5078.0	5558.8	6088.9	6673.4	7464.0	7753.0	8241.7	9054.4
10°	3034.1	3266.1	3609.5	3936.2	4360.0	4901.7	5573.1	6457.0	6808.2	7338.3	8274.1
12.5°	2444.3	2717.9	3081.9	3389.2	3717.1	4099.4	4751.3	5720.9	6191.2	6655.3	7601.3
15°	1877.9	2164.4	2502.7	2892.8	3254.4	3666.5	4349.6	5409.8	5951.6	6435.0	7242.4
17.5°	1299.9	1544.9	1971.4	2378.2	2841.0	3368.5	4238.1	5475.8	6122.6	6679.9	7304.6
20°	921.5	1061.5	1411.4	1883.2	2460.0	3122.2	4217.4	5823.2	6664.4	7300.7	7703.8
22.5°	775.0	826.9	1030.5	1463.2	2129.5	2938.2	4289.9	6310.5	7395.3	8208.0	8340.2
25°	706.4	737.5	843.7	1148.4	1835.2	2804.6	4535.0	7036.3	8300.0	9115.2	9091.9
27.5°	668.7	701.1	771.2	969.4	1613.6	2721.7	4779.9	7896.9	9334.2	10100.3	9809.9
30°	657.0	701.1	775.0	913.7	1455.5	2590.9	4980.8	8652.5	10130.0	10765.1	10136.5
32.5°	648.0	654.5	688.3	788.0	1305.1	2437.9	5116.8	9330.3	10909.0	11397.6	10607.0
35°	523.6	556.0	610.4	706.4	1217.0	2345.9	5116.8	9914.8	11676.2	12036.5	11055.4
37.5°	504.1	532.6	580.6	662.3	1167.8	2300.6	5014.5	10478.6	12460.4	12761.1	11424.8
40°	493.9	517.2	562.4	628.6	1147.0	2248.7	4865.5	10976.4	13226.3	13486.9	11769.5
42.5°	485.9	506.8	549.6	607.8	1119.8	2191.6	4744.9	11375.5	13891.2	14106.4	12098.8
45°	482.2	504.1	550.7	618.2	1065.4	2116.5	4704.7	11807.1	14438.2	14623.5	12455.1
47.5°	482.2	508.0	557.3	640.3	1000.6	2038.7	4830.5	12376.2	14955.3	15046.0	12875.1
50°	478.2	506.8	575.5	618.2	906.0	1940.2	5125.9	13092.9	15515.2	15525.5	13406.4
52.5°	470.5	504.1	619.5	605.3	797.0	1810.7	5525.1	14013.0	16343.3	16405.6	14238.5
55°	461.4	500.3	607.8	575.5	707.7	1656.4	5851.7	15131.6	17507.1	17679.6	15462.1
57.5°	449.7	495.1	588.4	533.9	649.3	1458.1	5969.7	15950.6	18319.8	18752.7	16841.0
60°	439.3	491.2	531.4	509.3	613.1	1290.9	5741.6	15788.6	18264.1	19197.3	18063.2
62.5°	429.0	495.1	484.7	493.9	596.2	1183.3	5145.3	14491.3	17340.0	18738.5	18969.1
65°	417.4	460.1	457.5	480.8	592.3	1140.5	4265.4	12545.9	15554.0	17288.2	19182.9
67.5°	401.7	425.1	438.0	464.1	605.3	1103.0	3442.3	10349.0	13072.1	15114.7	18068.4
70°	384.9	404.4	418.7	443.3	597.5	1086.1	2863.0	8161.3	10372.4	12387.9	15869.1
72.5°	362.8	379.7	392.7	416.1	589.7	1077.1	2418.5	6572.4	7744.0	9202.1	12902.3
75°	336.9	352.6	361.6	384.9	565.1	986.3	1901.3	5561.4	5794.7	6401.3	10276.5
77.5°	307.1	318.8	326.5	352.6	500.3	820.4	1375.1	4289.9	4500.0	4647.7	7878.8
80°	272.2	283.8	287.7	312.4	414.7	641.6	896.9	3168.8	3365.8	3399.6	5145.3
82.5°	231.9	243.6	243.6	267.0	339.6	461.4	588.4	2170.9	2209.8	2323.8	3636.8
85°	186.7	195.7	195.7	207.4	263.1	344.7	404.4	1090.0	1078.3	1231.3	3150.7
87.5°	133.6	140.0	146.4	149.0	187.9	228.2	243.6	331.8	219.1	251.4	2023.2
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: P193055

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	9150.3	9224.1	9149.0	9094.5	8859.9	8666.8	8408.8	8276.6
5°	9835.8	10023.8	9960.3	9732.2	9242.2	8691.3	8065.4	7782.9
7.5°	9752.9	10189.6	10200.0	9773.6	9051.7	8240.4	7392.7	6991.0
10°	9107.5	9666.0	9825.4	9412.0	8646.0	7738.9	6766.8	6308.0
12.5°	8386.8	8933.8	9055.6	8913.1	8272.8	7361.7	6375.3	5925.5
15°	7797.1	8042.0	8187.3	8311.7	7952.7	7211.3	6353.3	5859.5
17.5°	7438.2	7410.8	7452.3	7668.8	7729.8	7383.6	6690.3	6146.0
20°	7308.5	6892.5	6882.1	7180.2	7624.7	7794.5	7348.7	6695.4
22.5°	7379.8	6705.8	6620.2	6974.1	7680.5	8386.8	8211.8	7466.7
25°	7626.1	6721.4	6652.7	6994.9	7882.6	9018.0	9143.7	8464.6
27.5°	8013.5	6819.9	6729.2	7080.4	8151.0	9548.0	10061.3	9431.5
30°	8381.6	6991.0	6878.2	7249.0	8395.9	9758.1	10623.9	10185.8
32.5°	8828.8	7311.1	7112.8	7558.7	8699.2	10092.4	11125.5	10810.4
35°	9266.9	7767.4	7521.1	8036.9	9037.5	10508.4	11698.3	11608.8
37.5°	9747.7	8363.5	8160.0	8655.1	9500.1	10901.3	12429.3	12544.6
40°	10261.0	9154.1	8913.1	9557.1	10218.2	11393.7	13192.6	13470.0
42.5°	10778.1	10031.5	9743.8	10397.0	11007.5	11879.8	13845.9	14256.7
45°	11370.4	10984.2	10848.1	11554.3	11765.7	12342.4	14327.9	14838.6
47.5°	12059.8	12065.1	12284.1	12566.7	12530.3	12866.1	14812.8	15358.3
50°	12864.7	13414.2	13897.7	14085.6	13318.3	13428.5	15485.4	16054.3
52.5°	13831.5	15027.8	15626.6	15503.5	14167.2	14115.4	16550.7	17013.5
55°	15040.8	16736.0	17330.9	17242.9	15143.3	15051.1	17877.9	18147.4
57.5°	16440.6	18391.2	18938.0	18541.6	16314.8	16077.6	18975.6	19032.6
60°	17670.5	19702.7	20182.3	19742.9	17496.9	17170.2	19661.3	19385.3
62.5°	18354.8	20147.3	20484.3	20011.2	18306.9	18334.1	19811.7	19194.6
65°	18049.0	19023.5	19132.5	19093.6	18098.2	19009.4	19271.1	18314.7
67.5°	16374.4	16182.6	16365.4	16618.2	16309.6	18120.2	17774.2	16397.7
70°	13424.5	12370.9	12735.1	12904.9	13044.9	15592.9	15427.1	13356.0
72.5°	10117.1	8666.8	8954.5	8919.5	9567.5	12507.0	11997.6	9820.2
75°	7168.5	5876.4	5912.7	5898.4	6676.1	9785.3	8687.5	6718.8
77.5°	5015.8	4257.7	4277.0	4357.4	4488.3	7379.8	6206.8	4908.2
80°	3448.8	3231.2	3338.6	3345.2	3110.5	4957.4	4585.5	3938.7
82.5°	2568.8	2246.1	2220.1	2257.8	2437.9	4016.5	3524.0	2732.1
85°	2103.5	1329.8	1069.2	1340.2	2160.5	3977.6	2340.7	1441.2
87.5°	1184.6	631.2	285.1	528.9	861.8	2633.5	676.6	184.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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