

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: P194666

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194666
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-08-LED-E1-SLR-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 33872 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

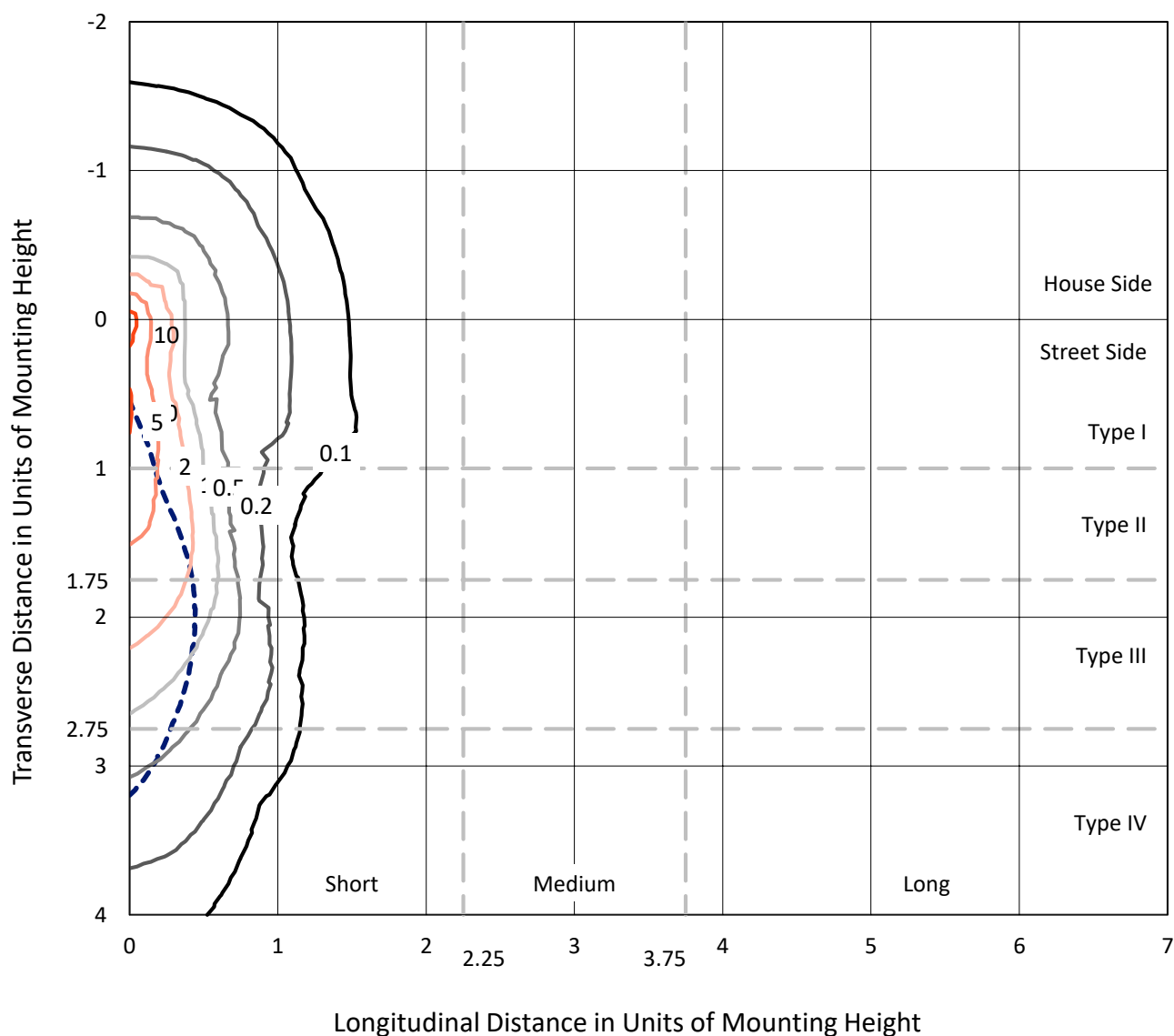


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

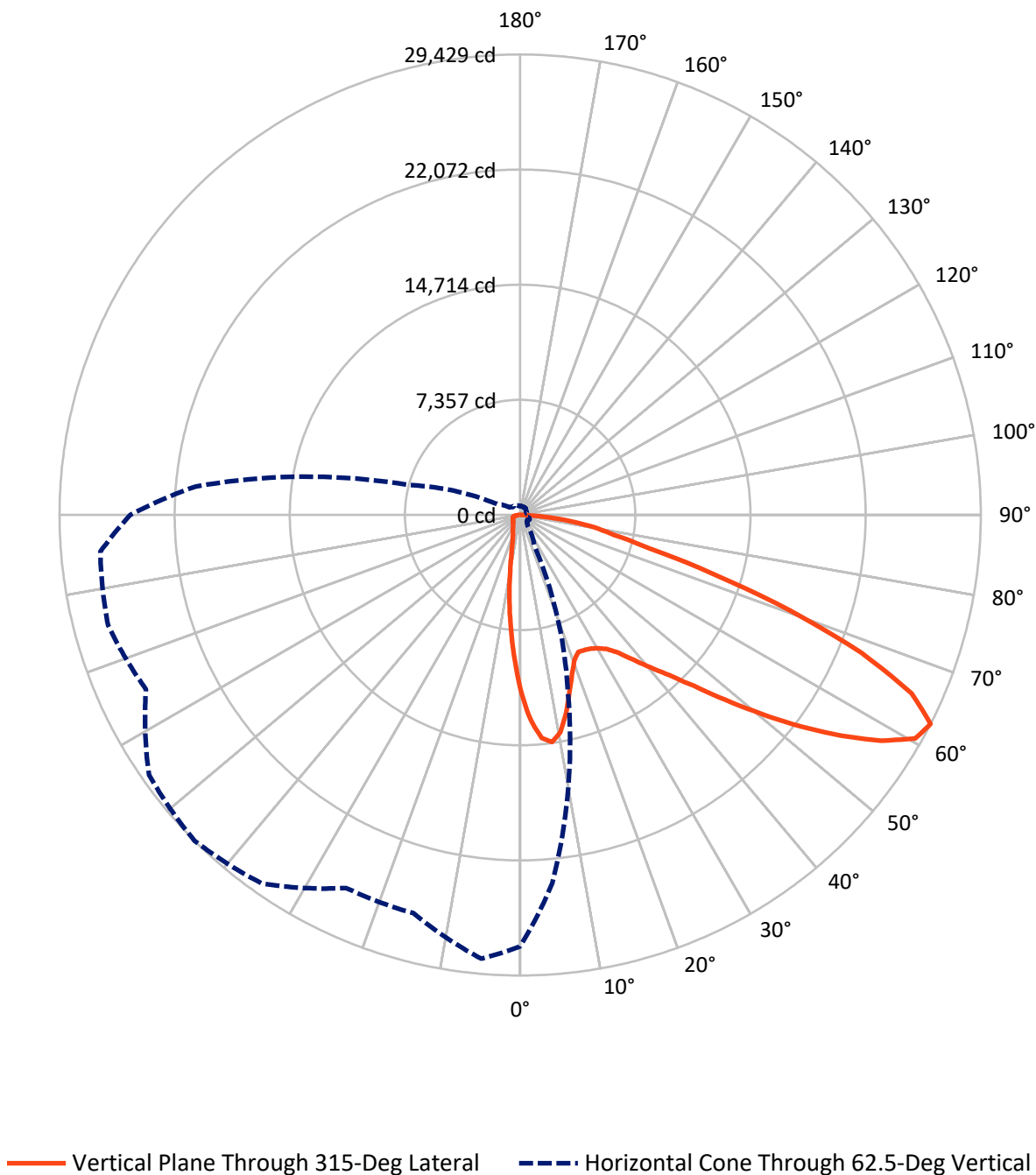


Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5605.3	0.0	5605.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28266.7	0.0	28266.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	33872.0	0.0	33872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.1	2.5
10°-20°	1527.6	4.5
20°-30°	2227.2	6.6
30°-40°	3430.3	10.1
40°-50°	5048.5	14.9
50°-60°	7405.0	21.9
60°-70°	8277.7	24.4
70°-80°	4052.7	12.0
80°-90°	1070.0	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°	33872.0	100.0
0°-180°	33872.0	100.0

Coefficient of Utilization



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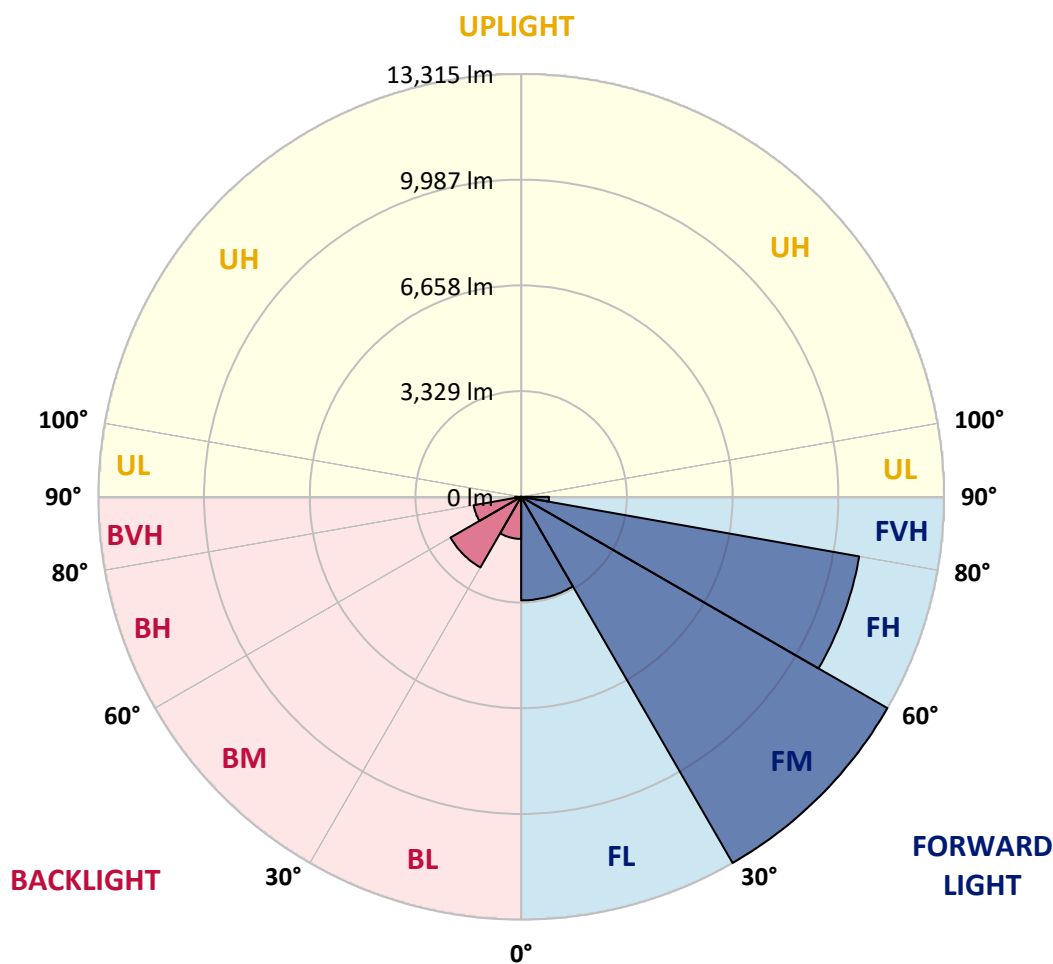
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3261.8	9.6			
FM	(30°-60°)	13315.4	39.3			
FH	(60°-80°)	10810.8	31.9			G4/12000
FVH	(80°-90°)	878.7	2.6			G5
BL	(0°-30°)	1326.1	3.9	B3/2500		
BM	(30°-60°)	2568.3	7.6	B3/5000		
BH	(60°-80°)	1519.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	191.3	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	11890.7	11648.6	11246.4	10827.5	10572.4	10274.5	10041.7	9836.9	9427.3	9347.2	9419.8
5°	11181.2	10695.3	9937.4	9174.0	8665.7	8120.1	7695.6	7354.9	6835.4	6744.1	6854.0
7.5°	10043.6	9462.6	8460.9	7487.1	6768.3	6086.8	5628.8	5263.8	4857.9	4682.9	4694.1
10°	9062.3	8406.9	7222.7	6163.2	5574.8	5114.9	4729.5	4355.2	3943.7	3673.7	3599.2
12.5°	8513.0	7758.9	6394.1	5448.2	4902.6	4418.5	4003.3	3602.9	3163.5	2887.9	2809.7
15°	8418.1	7598.8	6083.1	4990.1	4306.8	3694.2	3204.5	2757.6	2305.1	2081.7	2035.2
17.5°	8829.6	7885.5	5982.6	4582.4	3746.3	2990.4	2388.9	1889.9	1521.2	1409.5	1400.2
20°	9619.0	8436.7	5969.5	4198.8	3193.3	2307.0	1664.6	1301.5	1139.5	1107.9	1109.7
22.5°	10726.9	9291.3	6129.7	3910.2	2685.0	1720.5	1251.3	1089.3	1026.0	996.2	996.2
25°	12160.7	10468.1	6498.3	3699.8	2243.7	1374.1	1104.2	1007.3	947.8	927.3	931.0
27.5°	13549.7	11613.2	6926.6	3534.1	1955.1	1247.5	1046.4	958.9	906.8	886.3	895.6
30°	14633.4	12629.9	7284.1	3308.8	1808.0	1212.2	1066.9	977.5	903.1	871.4	873.3
32.5°	15530.9	13519.9	7583.9	3146.8	1677.7	1039.0	919.8	880.7	871.4	834.2	815.6
35°	16677.8	14490.0	7785.0	3150.5	1616.2	927.3	819.3	750.4	700.1	657.3	657.3
37.5°	18022.2	15603.5	7999.1	3193.3	1593.9	862.1	783.9	715.0	668.5	627.5	620.0
40°	19351.7	16694.6	8194.6	3234.3	1580.8	823.0	756.0	692.7	649.8	608.9	597.7
42.5°	20481.9	17592.1	8369.6	3254.8	1536.1	819.3	735.5	677.8	636.8	592.1	580.9
45°	21317.9	18344.3	8557.7	3286.4	1491.5	834.2	735.5	675.9	625.6	582.8	571.6
47.5°	22064.6	19226.9	8872.4	3286.4	1437.5	806.2	759.7	677.8	623.8	579.1	569.8
50°	23064.5	20437.2	9468.2	3210.1	1361.1	776.4	800.7	670.3	607.0	571.6	560.5
52.5°	24442.3	21988.2	10414.1	3077.9	1243.8	718.7	795.1	666.6	590.3	553.0	540.0
55°	26071.6	23649.1	11445.6	2923.3	1068.8	677.8	767.1	657.3	571.6	530.7	517.6
57.5°	27343.3	24792.4	12171.8	2685.0	916.1	655.4	679.6	648.0	549.3	506.5	495.3
60°	27849.8	24747.7	12371.1	2366.6	841.6	636.8	594.0	726.2	530.7	487.8	474.8
62.5°	27576.1	23604.4	11812.5	2143.1	824.9	612.6	556.7	672.2	515.8	474.8	456.2
65°	26311.8	21578.6	10332.2	2083.6	873.3	588.4	532.5	526.9	495.3	456.2	437.6
67.5°	23557.9	18551.0	8272.8	2089.2	934.7	564.2	508.3	482.3	467.4	435.7	418.9
70°	19187.8	14666.9	6166.9	2104.0	966.4	536.3	482.3	454.3	437.6	405.9	394.7
72.5°	14108.3	11304.1	4479.9	2007.2	972.0	504.6	446.9	422.7	405.9	372.4	363.1
75°	9652.6	8647.1	3107.7	1662.8	847.2	459.9	407.8	385.4	374.3	333.3	327.7
77.5°	7051.4	6490.9	1988.6	1234.5	653.6	404.1	359.4	342.6	335.2	290.5	283.0
80°	5658.6	5135.4	1243.8	845.3	478.5	338.9	301.6	292.3	284.9	240.2	234.6
82.5°	3925.1	3439.1	798.8	549.3	359.4	262.5	238.3	234.6	223.4	182.5	176.9
85°	2070.5	1867.6	506.5	374.3	260.7	180.6	165.7	165.7	160.1	121.0	117.3
87.5°	264.4	430.1	257.0	195.5	143.4	80.1	80.1	78.2	83.8	68.9	59.6
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°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	9248.5	9337.9	9252.2	9257.8	9352.8	9635.8	9764.3	9870.4	9984.0	10058.5	10092.0
5°	6703.2	6911.7	6982.5	7131.4	7351.1	7712.4	7855.7	7960.0	8028.9	8069.9	8086.6
7.5°	4584.2	4710.8	4852.3	5092.5	5571.1	5783.3	5878.3	5854.1	5775.9	5748.0	5720.0
10°	3455.9	3405.6	3379.5	3511.7	3899.0	4113.1	4180.2	4115.0	4072.2	4081.5	4128.0
12.5°	2677.5	2590.0	2483.9	2469.0	2724.1	2915.9	2958.7	2962.4	3040.6	3109.5	3211.9
15°	1951.4	1942.1	1889.9	1858.3	2003.5	2159.9	2178.5	2212.0	2282.8	2333.1	2422.4
17.5°	1376.0	1426.3	1467.2	1487.7	1597.6	1709.3	1688.8	1672.1	1659.0	1659.0	1701.9
20°	1109.7	1143.3	1195.4	1255.0	1366.7	1444.9	1394.6	1327.6	1279.2	1264.3	1269.9
22.5°	999.9	1026.0	1055.7	1107.9	1208.4	1262.4	1208.4	1160.0	1111.6	1094.8	1089.3
25°	944.0	977.5	1005.5	1044.6	1119.1	1156.3	1104.2	1068.8	1039.0	1018.5	1003.6
27.5°	912.4	942.2	949.6	968.2	1031.5	1065.1	1039.0	1024.1	1005.5	986.9	968.2
30°	878.9	873.3	860.2	862.1	912.4	945.9	944.0	947.8	945.9	940.3	936.6
32.5°	802.5	791.3	780.2	791.3	837.9	867.7	869.5	877.0	877.0	875.1	890.0
35°	668.5	688.9	702.0	735.5	791.3	817.4	806.2	787.6	754.1	733.6	731.8
37.5°	618.2	621.9	644.2	690.8	752.2	776.4	759.7	716.9	694.5	690.8	696.4
40°	594.0	597.7	610.7	653.6	715.0	739.2	724.3	692.7	672.2	670.3	679.6
42.5°	577.2	580.9	588.4	618.2	668.5	698.2	700.1	677.8	653.6	655.4	664.7
45°	567.9	569.8	567.9	582.8	629.4	664.7	679.6	664.7	644.2	648.0	659.1
47.5°	566.0	560.5	553.0	556.7	605.1	640.5	659.1	653.6	644.2	648.0	657.3
50°	558.6	545.6	536.3	534.4	582.8	620.0	636.8	636.8	640.5	648.0	657.3
52.5°	536.3	521.4	521.4	515.8	567.9	603.3	614.5	616.3	621.9	634.9	648.0
55°	508.3	502.7	508.3	499.0	556.7	590.3	595.8	599.6	603.3	614.5	633.1
57.5°	484.1	476.7	489.7	486.0	547.4	577.2	577.2	584.7	584.7	599.6	614.5
60°	471.1	456.2	461.8	465.5	534.4	566.0	562.3	569.8	573.5	586.5	597.7
62.5°	454.3	441.3	441.3	450.6	519.5	549.3	547.4	553.0	567.9	571.6	582.8
65°	433.8	428.3	422.7	433.8	504.6	530.7	532.5	540.0	553.0	556.7	566.0
67.5°	413.4	415.2	404.1	415.2	491.6	512.0	512.0	526.9	532.5	540.0	549.3
70°	391.0	392.9	383.6	396.6	482.3	491.6	489.7	510.2	513.9	519.5	528.8
72.5°	363.1	363.1	359.4	378.0	467.4	471.1	467.4	484.1	486.0	491.6	495.3
75°	333.3	333.3	329.6	355.6	458.0	448.7	437.6	450.6	454.3	458.0	458.0
77.5°	294.2	297.9	297.9	329.6	426.4	439.4	402.2	409.6	415.2	417.1	411.5
80°	245.8	255.1	258.8	299.8	357.5	405.9	359.4	364.9	366.8	366.8	359.4
82.5°	188.1	204.8	214.1	258.8	273.7	340.7	312.8	318.4	312.8	301.6	297.9
85°	130.3	152.7	163.9	197.4	206.7	262.5	260.7	260.7	249.5	234.6	232.7
87.5°	70.8	83.8	91.2	117.3	141.5	176.9	191.8	186.2	176.9	167.6	169.4
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°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	10267.0	10520.2	10924.3	11233.4	11544.3	11844.1	12168.1	12415.7	12626.1	12708.1	12957.6
5°	8256.1	8572.6	8954.3	9643.2	10131.1	10669.2	11291.1	12114.1	12430.6	12868.2	13585.1
7.5°	5837.3	6124.1	6738.5	7295.3	7986.1	8747.6	9587.4	10723.2	11138.4	11840.4	13007.9
10°	4358.9	4692.2	5185.6	5654.9	6263.7	7042.0	8006.6	9276.4	9781.0	10542.6	11886.9
12.5°	3511.7	3904.6	4427.8	4869.1	5340.2	5889.5	6826.1	8218.8	8894.7	9561.3	10920.6
15°	2698.0	3109.5	3595.5	4156.0	4675.5	5267.6	6248.8	7771.9	8550.3	9244.8	10404.8
17.5°	1867.6	2219.5	2832.1	3416.8	4081.5	4839.3	6088.7	7866.9	8796.0	9596.7	10494.2
20°	1323.9	1525.0	2027.7	2705.5	3534.1	4485.5	6058.9	8365.9	9574.3	10488.6	11067.7
22.5°	1113.5	1187.9	1480.3	2102.2	3059.2	4221.1	6163.2	9066.0	10624.5	11792.0	11981.9
25°	1014.8	1059.5	1212.2	1649.7	2636.6	4029.3	6515.1	10108.7	11924.2	13095.4	13061.9
27.5°	960.8	1007.3	1107.9	1392.8	2318.2	3910.2	6867.0	11345.1	13410.0	14510.5	14093.4
30°	944.0	1007.3	1113.5	1312.7	2091.0	3722.1	7155.6	12430.6	14553.3	15465.7	14562.6
32.5°	931.0	940.3	988.7	1132.1	1875.0	3502.4	7351.1	13404.5	15672.4	16374.3	15238.5
35°	752.2	798.8	877.0	1014.8	1748.4	3370.2	7351.1	14244.2	16774.7	17292.3	15882.8
37.5°	724.3	765.3	834.2	951.5	1677.7	3305.0	7204.0	15054.2	17901.2	18333.1	16413.4
40°	709.4	742.9	808.1	903.1	1647.9	3230.6	6989.9	15769.2	19001.6	19375.9	16908.7
42.5°	698.2	728.0	789.5	873.3	1608.8	3148.6	6816.7	16342.7	19956.8	20265.9	17381.7
45°	692.7	724.3	791.3	888.2	1530.6	3040.6	6759.0	16962.7	20742.6	21008.8	17893.7
47.5°	692.7	729.9	800.7	919.8	1437.5	2928.9	6939.6	17780.1	21485.5	21615.8	18497.0
50°	687.1	728.0	826.7	888.2	1301.5	2787.4	7364.2	18809.8	22289.9	22304.8	19260.4
52.5°	675.9	724.3	890.0	869.5	1145.1	2601.2	7937.7	20131.8	23479.7	23569.1	20455.8
55°	662.9	718.7	873.3	826.7	1016.6	2379.6	8406.9	21738.7	25151.8	25399.4	22213.5
57.5°	646.1	711.3	845.3	767.1	932.9	2094.7	8576.3	22915.5	26319.2	26941.1	24194.7
60°	631.2	705.7	763.4	731.8	880.7	1854.5	8248.6	22682.8	26239.2	27579.8	25950.5
62.5°	616.3	711.3	696.4	709.4	856.5	1700.0	7392.1	20818.9	24911.6	26920.6	27252.1
65°	599.6	661.0	657.3	690.8	850.9	1638.6	6127.8	18024.1	22345.7	24837.1	27559.3
67.5°	577.2	610.7	629.4	666.6	869.5	1584.6	4945.4	14868.0	18780.0	21714.5	25958.0
70°	553.0	580.9	601.4	636.8	858.4	1560.3	4113.1	11724.9	14901.5	17796.9	22798.2
72.5°	521.4	545.6	564.2	597.7	847.2	1547.3	3474.5	9442.1	11125.4	13220.1	18536.1
75°	484.1	506.5	519.5	553.0	811.8	1417.0	2731.5	7989.8	8325.0	9196.4	14763.7
77.5°	441.3	458.0	469.2	506.5	718.7	1178.6	1975.6	6163.2	6464.8	6677.1	11319.0
80°	391.0	407.8	413.4	448.7	595.8	921.7	1288.5	4552.6	4835.6	4884.0	7392.1
82.5°	333.3	350.1	350.1	383.6	487.8	662.9	845.3	3118.8	3174.7	3338.5	5224.7
85°	268.1	281.2	281.2	297.9	378.0	495.3	580.9	1565.9	1549.2	1768.9	4526.5
87.5°	191.8	201.1	210.4	214.1	270.0	327.7	350.1	476.7	314.7	361.2	2906.6
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-08-LED-E1-SLR-7060-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	13145.6	13251.8	13143.8	13065.6	12728.6	12451.1	12080.6	11890.7
5°	14130.6	14400.6	14309.4	13981.7	13277.8	12486.5	11587.2	11181.2
7.5°	14011.5	14639.0	14653.9	14041.3	13004.1	11838.5	10620.8	10043.6
10°	13084.2	13886.7	14115.7	13521.8	12421.3	11117.9	9721.4	9062.3
12.5°	12048.9	12834.7	13009.7	12804.9	11885.1	10576.1	9159.1	8513.0
15°	11201.7	11553.6	11762.2	11940.9	11425.2	10360.1	9127.5	8418.1
17.5°	10686.0	10646.9	10706.4	11017.4	11104.9	10607.8	9611.6	8829.6
20°	10499.8	9902.1	9887.2	10315.4	10954.1	11198.0	10557.5	9619.0
22.5°	10602.2	9633.9	9511.0	10019.4	11034.1	12048.9	11797.6	10726.9
25°	10955.9	9656.3	9557.6	10049.2	11324.6	12955.7	13136.3	12160.7
27.5°	11512.7	9797.8	9667.4	10172.0	11710.1	13717.3	14454.6	13549.7
30°	12041.5	10043.6	9881.6	10414.1	12062.0	14018.9	15262.7	14633.4
32.5°	12683.9	10503.5	10218.6	10859.1	12497.7	14499.3	15983.3	15530.9
35°	13313.2	11158.9	10805.1	11546.2	12983.7	15097.0	16806.3	16677.8
37.5°	14004.0	12015.4	11723.1	12434.4	13648.4	15661.2	17856.5	18022.2
40°	14741.4	13151.2	12804.9	13730.3	14679.9	16368.7	18953.2	19351.7
42.5°	15484.3	14411.8	13998.4	14936.9	15813.9	17067.0	19891.6	20481.9
45°	16335.2	15780.4	15584.9	16599.6	16903.1	17731.7	20584.3	21317.9
47.5°	17325.8	17333.3	17647.9	18053.8	18001.7	18484.0	21280.7	22064.6
50°	18482.1	19271.6	19966.1	20236.1	19133.8	19292.1	22247.0	23064.5
52.5°	19871.1	21589.8	22450.0	22273.1	20353.4	20278.9	23777.6	24442.3
55°	21608.4	24043.9	24898.5	24771.9	21755.5	21623.3	25684.3	26071.6
57.5°	23619.3	26421.6	27207.4	26637.6	23438.7	23098.0	27261.4	27343.3
60°	25386.4	28306.0	28994.9	28363.7	25136.9	24667.6	28246.4	27849.8
62.5°	26369.5	28944.6	29428.7	28749.1	26300.6	26339.7	28462.4	27576.1
65°	25930.1	27330.3	27486.7	27430.8	26000.8	27309.8	27685.9	26311.8
67.5°	23524.4	23248.8	23511.3	23874.4	23431.3	26032.5	25535.3	23557.9
70°	19286.5	17772.7	18295.9	18539.8	18740.9	22401.6	22163.3	19187.8
72.5°	14534.7	12451.1	12864.5	12814.2	13745.2	17968.2	17236.4	14108.3
75°	10298.7	8442.3	8494.4	8473.9	9591.1	14058.0	12480.9	9652.6
77.5°	7205.9	6116.6	6144.6	6260.0	6448.1	10602.2	8917.1	7051.4
80°	4954.8	4641.9	4796.5	4805.8	4468.8	7122.1	6587.7	5658.6
82.5°	3690.5	3226.8	3189.6	3243.6	3502.4	5770.3	5062.7	3925.1
85°	3022.0	1910.4	1536.1	1925.3	3103.9	5714.4	3362.8	2070.5
87.5°	1701.9	906.8	409.6	759.7	1238.2	3783.6	972.0	264.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)