

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: P269253

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269253
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-04-LED-E1-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 18333.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

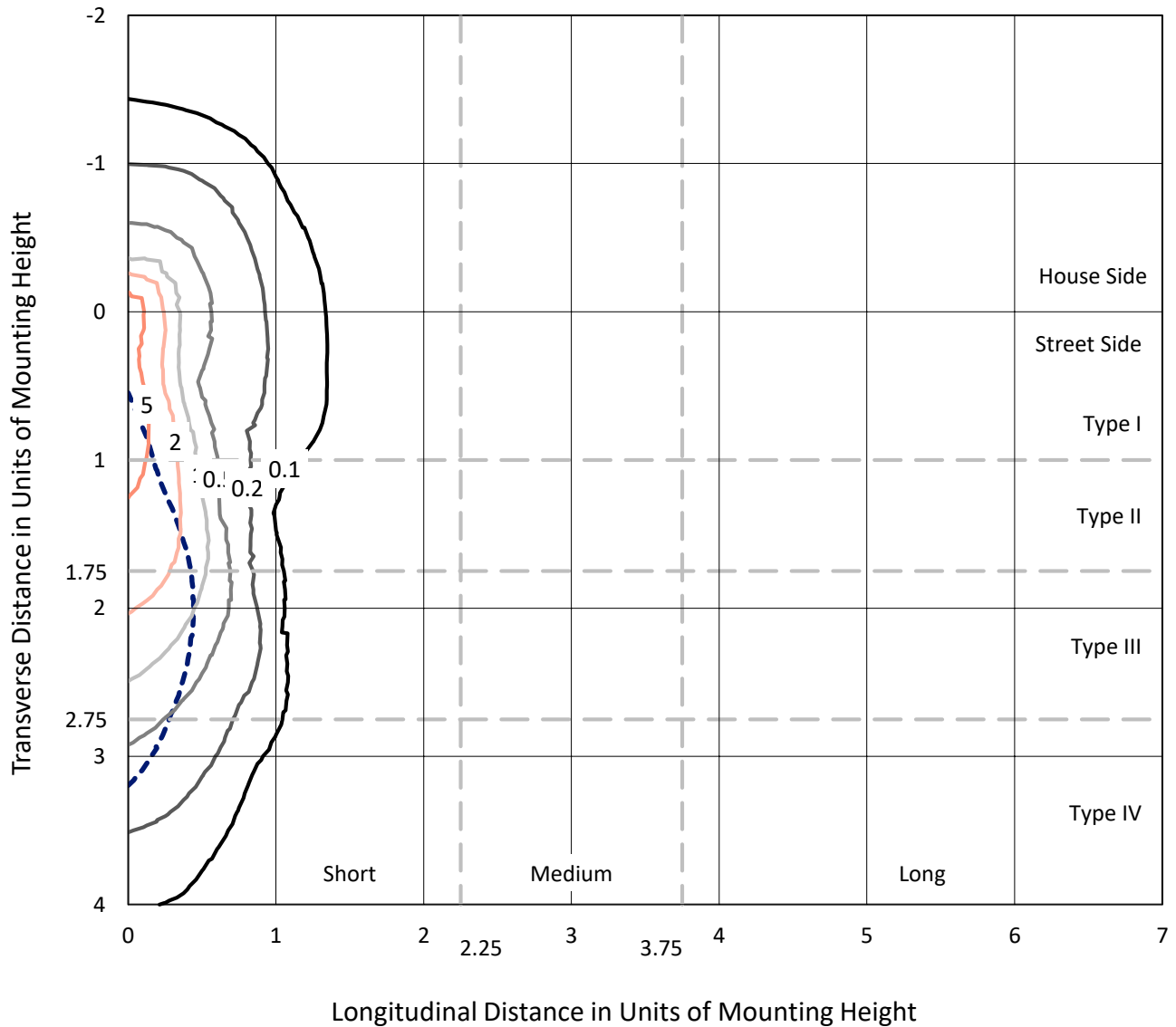
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

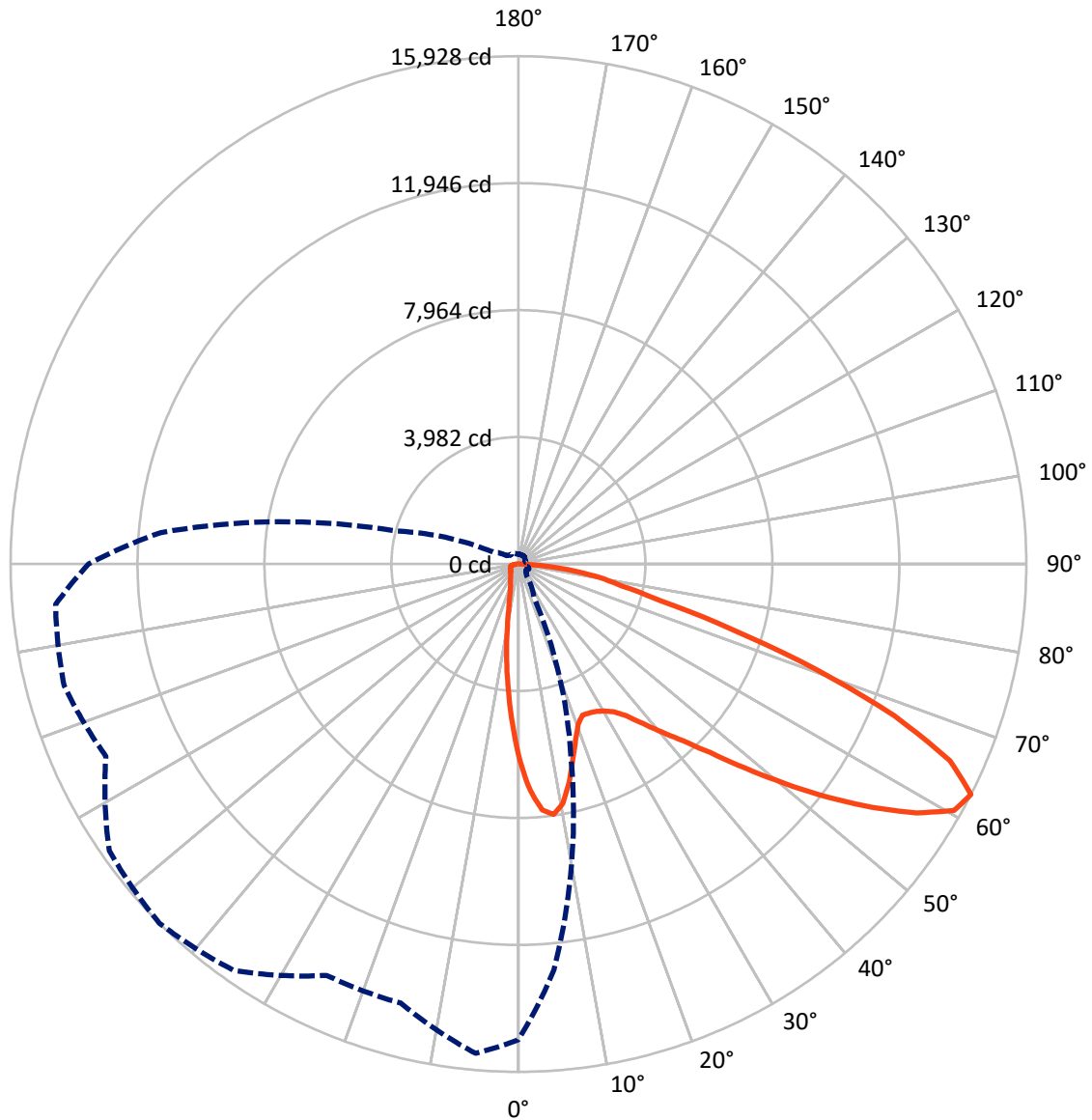
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.9	0.0	3033.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15299.2	0.0	15299.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	18333.1	0.0	18333.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	2.5
10°-20°	826.8	4.5
20°-30°	1205.5	6.6
30°-40°	1856.6	10.1
40°-50°	2732.5	14.9
50°-60°	4007.9	21.9
60°-70°	4480.3	24.4
70°-80°	2193.5	12.0
80°-90°	579.1	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°	18333.1	100.0
0°-180°	18333.1	100.0



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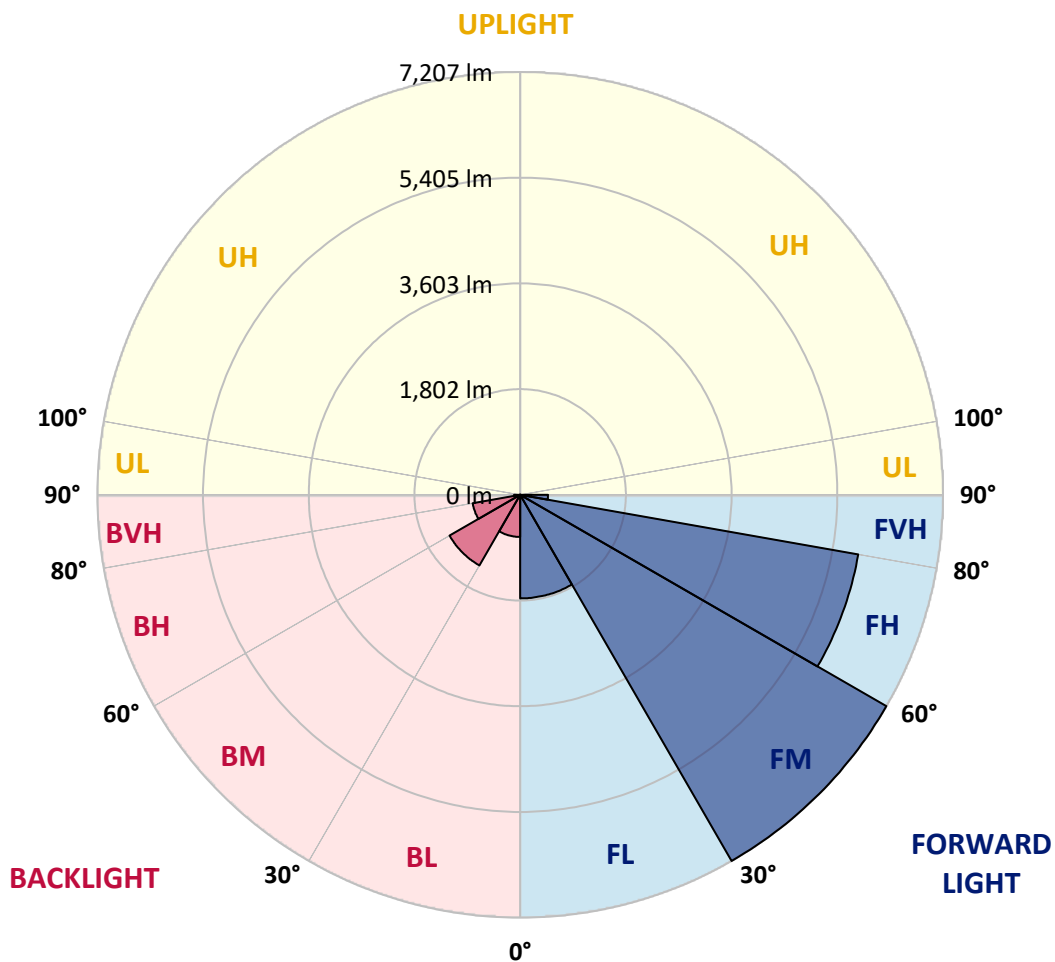
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.4	9.6			
FM (30°-60°)	7206.9	39.3			
FH (60°-80°)	5851.3	31.9			G3/7500
FVH (80°-90°)	475.6	2.6			G3/500
BL (0°-30°)	717.8	3.9	B2/1000		
BM (30°-60°)	1390.1	7.6	B2/2500		
BH (60°-80°)	822.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	103.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	6435.7	6304.8	6087.1	5860.4	5722.3	5561.0	5435.0	5324.2	5102.5	5059.2	5098.4
5°	6051.8	5788.8	5378.6	4965.4	4690.3	4395.0	4165.3	3980.7	3699.6	3650.3	3709.7
7.5°	5436.1	5121.5	4579.4	4052.3	3663.4	3294.4	3046.5	2849.1	2629.2	2534.6	2540.6
10°	4904.9	4550.2	3909.2	3335.8	3017.3	2768.3	2559.8	2357.2	2134.6	1988.4	1948.1
12.5°	4607.6	4199.4	3460.8	2948.7	2653.6	2391.5	2166.7	1950.1	1712.2	1563.1	1520.8
15°	4556.3	4112.8	3292.5	2700.8	2331.0	1999.4	1734.4	1492.5	1247.7	1126.7	1101.5
17.5°	4779.0	4267.9	3238.0	2480.2	2027.7	1618.6	1293.0	1022.9	823.3	762.9	757.9
20°	5206.2	4566.4	3231.1	2272.6	1728.3	1248.6	901.0	704.5	616.7	599.7	600.6
22.5°	5805.9	5028.9	3317.7	2116.3	1453.3	931.3	677.2	589.6	555.3	539.2	539.2
25°	6581.9	5665.8	3517.3	2002.5	1214.4	743.7	597.6	545.2	512.9	502.0	503.9
27.5°	7333.8	6285.6	3748.9	1912.9	1058.3	675.3	566.4	519.0	490.8	479.8	484.7
30°	7920.3	6835.9	3942.5	1790.9	978.6	656.1	577.5	529.1	488.8	471.6	472.7
32.5°	8406.0	7317.7	4104.7	1703.1	908.0	562.3	497.8	476.7	471.6	451.5	441.3
35°	9026.8	7842.7	4213.6	1705.3	874.8	502.0	443.5	406.2	378.9	355.8	355.8
37.5°	9754.4	8445.3	4329.6	1728.3	862.6	466.6	424.3	387.0	361.7	339.6	335.5
40°	10474.0	9036.0	4435.3	1750.5	855.6	445.4	409.2	375.0	351.7	329.6	323.5
42.5°	11085.8	9521.7	4530.1	1761.7	831.4	443.5	398.0	366.9	344.7	320.4	314.4
45°	11538.2	9928.7	4631.8	1778.7	807.2	451.5	398.0	365.8	338.7	315.5	309.3
47.5°	11942.3	10406.4	4802.1	1778.7	778.0	436.3	411.2	366.9	337.7	313.4	308.4
50°	12483.6	11061.5	5124.7	1737.4	736.7	420.2	433.3	362.8	328.5	309.3	303.4
52.5°	13229.2	11901.0	5636.5	1665.8	673.2	389.0	430.3	360.8	319.4	299.3	292.3
55°	14111.1	12799.9	6194.9	1582.3	578.5	366.9	415.1	355.8	309.3	287.2	280.2
57.5°	14799.4	13418.8	6588.0	1453.3	495.9	354.7	367.9	350.7	297.2	274.2	268.1
60°	15073.6	13394.5	6695.7	1281.0	455.5	344.7	321.6	393.1	287.2	264.0	256.9
62.5°	14925.5	12775.9	6393.4	1160.0	446.5	331.6	301.3	363.9	279.2	256.9	246.9
65°	14241.1	11679.4	5592.3	1127.7	472.7	318.4	288.3	285.2	268.1	246.9	236.9
67.5°	12750.6	10040.6	4477.6	1130.7	505.9	305.3	275.2	261.0	253.0	235.9	226.7
70°	10385.3	7938.4	3337.8	1138.8	523.1	290.2	261.0	245.9	236.9	219.6	213.6
72.5°	7636.0	6118.4	2424.7	1086.4	526.0	273.2	241.9	228.8	219.6	201.6	196.5
75°	5224.5	4680.2	1681.9	899.9	458.6	248.9	220.8	208.5	202.6	180.4	177.3
77.5°	3816.4	3513.2	1076.3	668.2	353.8	218.6	194.6	185.4	181.4	157.3	153.3
80°	3062.7	2779.4	673.2	457.5	259.0	183.4	163.2	158.2	154.1	130.1	127.0
82.5°	2124.4	1861.4	432.4	297.2	194.6	142.1	128.9	127.0	120.9	98.8	95.7
85°	1120.6	1010.9	274.2	202.6	141.2	97.7	89.7	89.7	86.6	65.4	63.5
87.5°	143.1	232.8	139.1	105.8	77.7	43.4	43.4	42.3	45.4	37.3	32.2
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°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	5005.7	5054.1	5007.7	5010.7	5062.2	5215.3	5284.9	5342.3	5403.8	5444.1	5462.2
5°	3628.1	3740.9	3779.2	3859.8	3978.8	4174.2	4251.9	4308.4	4345.6	4367.7	4376.8
7.5°	2481.2	2549.7	2626.4	2756.3	3015.3	3130.2	3181.5	3168.5	3126.2	3111.1	3096.0
10°	1870.5	1843.2	1829.2	1900.8	2110.3	2226.2	2262.6	2227.2	2204.0	2209.1	2234.3
12.5°	1449.2	1401.8	1344.5	1336.3	1474.4	1578.2	1601.4	1603.5	1645.8	1683.1	1738.4
15°	1056.1	1051.1	1022.9	1005.8	1084.3	1169.1	1179.1	1197.3	1235.6	1262.7	1311.2
17.5°	744.8	772.0	794.1	805.2	864.7	925.2	914.0	905.0	897.9	897.9	921.1
20°	600.6	618.8	647.0	679.3	739.8	782.1	754.8	718.6	692.4	684.2	687.4
22.5°	541.1	555.3	571.4	599.7	654.1	683.3	654.1	627.8	601.7	592.6	589.6
25°	511.0	529.1	544.3	565.4	605.6	625.8	597.6	578.5	562.3	551.3	543.3
27.5°	493.8	510.0	514.0	524.0	558.3	576.4	562.3	554.3	544.3	534.1	524.0
30°	475.7	472.7	465.6	466.6	493.8	511.9	511.0	512.9	511.9	508.9	507.0
32.5°	434.4	428.3	422.3	428.3	453.6	469.6	470.6	474.7	474.7	473.6	481.8
35°	361.7	372.8	380.0	398.0	428.3	442.4	436.3	426.2	408.2	397.1	396.1
37.5°	334.6	336.7	348.7	373.9	407.1	420.2	411.2	388.0	375.9	373.9	376.8
40°	321.6	323.5	330.5	353.8	387.0	400.0	392.0	375.0	363.9	362.8	367.9
42.5°	312.4	314.4	318.4	334.6	361.7	377.9	378.9	366.9	353.8	354.7	359.9
45°	307.4	308.4	307.4	315.5	340.6	359.9	367.9	359.9	348.7	350.7	356.7
47.5°	306.4	303.4	299.3	301.3	327.5	346.7	356.7	353.8	348.7	350.7	355.8
50°	302.3	295.4	290.2	289.3	315.5	335.5	344.7	344.7	346.7	350.7	355.8
52.5°	290.2	282.2	282.2	279.2	307.4	326.5	332.6	333.6	336.7	343.6	350.7
55°	275.2	272.0	275.2	270.1	301.3	319.4	322.5	324.5	326.5	332.6	342.7
57.5°	262.0	258.1	265.1	263.1	296.4	312.4	312.4	316.5	316.5	324.5	332.6
60°	254.9	246.9	249.9	252.0	289.3	306.4	304.3	308.4	310.5	317.5	323.5
62.5°	245.9	238.9	238.9	243.9	281.2	297.2	296.4	299.3	307.4	309.3	315.5
65°	234.7	231.9	228.8	234.7	273.2	287.2	288.3	292.3	299.3	301.3	306.4
67.5°	223.8	224.8	218.6	224.8	266.1	277.1	277.1	285.2	288.3	292.3	297.2
70°	211.6	212.7	207.6	214.7	261.0	266.1	265.1	276.0	278.1	281.2	286.2
72.5°	196.5	196.5	194.6	204.5	253.0	254.9	253.0	262.0	263.1	266.1	268.1
75°	180.4	180.4	178.4	192.4	247.9	242.9	236.9	243.9	245.9	247.9	247.9
77.5°	159.2	161.2	161.2	178.4	230.8	237.8	217.7	221.7	224.8	225.7	222.7
80°	132.9	138.1	140.0	162.2	193.4	219.6	194.6	197.5	198.5	198.5	194.6
82.5°	101.8	110.9	115.9	140.0	148.1	184.4	169.3	172.4	169.3	163.2	161.2
85°	70.5	82.6	88.8	106.8	111.8	142.1	141.2	141.2	135.0	127.0	126.0
87.5°	38.3	45.4	49.3	63.5	76.5	95.7	103.8	100.8	95.7	90.6	91.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	5556.9	5694.0	5912.7	6080.0	6248.3	6410.6	6586.0	6720.0	6833.9	6878.2	7013.2
5°	4468.6	4639.8	4846.4	5219.3	5483.4	5774.7	6111.3	6556.6	6728.0	6964.9	7352.8
7.5°	3159.3	3314.7	3647.2	3948.5	4322.5	4734.6	5189.1	5803.9	6028.6	6408.6	7040.5
10°	2359.3	2539.7	2806.8	3060.6	3390.3	3811.5	4333.6	5020.8	5293.9	5706.2	6433.8
12.5°	1900.8	2113.4	2396.6	2635.4	2890.3	3187.6	3694.5	4448.3	4814.2	5175.0	5910.7
15°	1460.3	1683.1	1946.1	2249.4	2530.5	2851.0	3382.2	4206.6	4627.8	5003.6	5631.6
17.5°	1010.9	1201.4	1532.9	1849.3	2209.1	2619.3	3295.5	4258.0	4760.7	5194.2	5680.0
20°	716.6	825.5	1097.5	1464.3	1912.9	2427.8	3279.4	4528.0	5182.1	5676.8	5990.3
22.5°	602.7	642.9	801.2	1137.9	1655.8	2284.7	3335.8	4906.9	5750.5	6382.4	6485.1
25°	549.3	573.5	656.1	892.9	1427.0	2180.8	3526.2	5471.2	6454.0	7087.8	7069.8
27.5°	519.9	545.2	599.7	753.9	1254.8	2116.3	3716.7	6140.5	7258.1	7853.7	7628.0
30°	511.0	545.2	602.7	710.5	1131.8	2014.5	3873.0	6728.0	7876.9	8370.8	7882.0
32.5°	503.9	508.9	535.1	612.7	1014.8	1895.7	3978.8	7255.2	8482.6	8862.6	8247.8
35°	407.1	432.4	474.7	549.3	946.4	1824.1	3978.8	7709.7	9079.2	9359.4	8596.5
37.5°	392.0	414.2	451.5	515.0	908.0	1788.9	3899.2	8148.0	9688.8	9922.8	8883.7
40°	383.9	402.1	437.4	488.8	891.8	1748.6	3783.2	8535.1	10284.5	10487.2	9151.8
42.5°	377.9	394.0	427.4	472.7	870.7	1704.2	3689.6	8845.4	10801.5	10968.8	9407.8
45°	375.0	392.0	428.3	480.8	828.3	1645.8	3658.3	9180.9	11226.8	11370.9	9684.8
47.5°	375.0	395.1	433.3	497.8	778.0	1585.2	3756.1	9623.5	11629.0	11699.4	10011.4
50°	371.9	394.0	447.4	480.8	704.5	1508.7	3985.8	10180.8	12064.2	12072.4	10424.7
52.5°	365.8	392.0	481.8	470.6	619.8	1408.0	4296.2	10896.4	12708.3	12756.7	11071.6
55°	358.8	389.0	472.7	447.4	550.2	1288.0	4550.2	11766.0	13613.3	13747.3	12022.9
57.5°	349.7	385.0	457.5	415.1	504.8	1133.8	4641.9	12402.9	14245.2	14581.7	13095.3
60°	341.6	382.0	413.2	396.1	476.7	1003.8	4464.5	12277.0	14201.8	14927.5	14045.5
62.5°	333.6	385.0	376.8	383.9	463.5	920.1	4001.0	11268.2	13483.3	14570.7	14750.1
65°	324.5	357.7	355.8	373.9	460.7	886.8	3316.6	9755.5	12094.5	13443.0	14916.4
67.5°	312.4	330.5	340.6	360.8	470.6	857.6	2676.7	8047.2	10164.6	11753.0	14049.8
70°	299.3	314.4	325.5	344.7	464.7	844.5	2226.2	6346.0	8065.4	9632.4	12339.5
72.5°	282.2	295.4	305.3	323.5	458.6	837.5	1880.5	5110.5	6021.6	7155.3	10032.6
75°	262.0	274.2	281.2	299.3	439.5	767.0	1478.4	4324.4	4505.9	4977.5	7990.9
77.5°	238.9	247.9	254.0	274.2	389.0	637.9	1069.3	3335.8	3499.1	3613.9	6126.4
80°	211.6	220.8	223.8	242.9	322.5	498.9	697.4	2464.1	2617.2	2643.4	4001.0
82.5°	180.4	189.5	189.5	207.6	264.0	358.8	457.5	1688.1	1718.3	1807.0	2827.9
85°	145.2	152.2	152.2	161.2	204.5	268.1	314.4	847.6	838.5	957.5	2449.9
87.5°	103.8	108.9	113.8	115.9	146.2	177.3	189.5	258.1	170.3	195.6	1573.1
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-04-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	7115.0	7172.4	7113.9	7071.6	6889.3	6739.2	6538.6	6435.7
5°	7648.2	7794.2	7744.8	7567.5	7186.6	6758.3	6271.4	6051.8
7.5°	7583.6	7923.3	7931.3	7599.8	7038.4	6407.6	5748.4	5436.1
10°	7081.8	7516.1	7640.1	7318.6	6722.9	6017.6	5261.7	4904.9
12.5°	6521.4	6946.8	7041.5	6930.7	6432.8	5724.3	4957.3	4607.6
15°	6062.9	6253.5	6366.3	6462.9	6183.8	5607.4	4940.1	4556.3
17.5°	5783.7	5762.5	5794.8	5963.0	6010.5	5741.3	5202.3	4779.0
20°	5682.9	5359.5	5351.5	5583.1	5928.9	6060.9	5714.2	5206.2
22.5°	5738.5	5214.3	5147.7	5423.0	5972.2	6521.4	6385.4	5805.9
25°	5929.8	5226.3	5173.0	5439.1	6129.5	7012.2	7109.9	6581.9
27.5°	6231.3	5303.1	5232.4	5505.6	6338.0	7424.4	7823.5	7333.8
30°	6517.5	5436.1	5348.4	5636.5	6528.5	7587.8	8261.0	7920.3
32.5°	6865.0	5685.0	5530.8	5877.5	6764.2	7847.8	8650.9	8406.0
35°	7205.8	6039.8	5848.2	6249.2	7027.4	8171.3	9096.3	9026.8
37.5°	7579.5	6503.3	6345.1	6730.0	7387.1	8476.5	9664.8	9754.4
40°	7978.7	7118.1	6930.7	7431.5	7945.5	8859.5	10258.4	10474.0
42.5°	8380.7	7800.3	7576.7	8084.6	8559.2	9237.5	10766.2	11085.8
45°	8841.4	8541.1	8435.3	8984.5	9148.8	9597.2	11141.1	11538.2
47.5°	9377.5	9381.5	9551.9	9771.6	9743.3	10004.3	11518.1	11942.3
50°	10003.3	10430.7	10806.6	10952.8	10356.1	10441.8	12041.2	12483.6
52.5°	10755.1	11685.4	12151.0	12055.3	11016.3	10975.9	12869.6	13229.2
55°	11695.5	13013.7	13476.3	13407.7	11775.1	11703.5	13901.5	14111.1
57.5°	12783.9	14300.6	14725.8	14417.4	12686.1	12501.7	14755.1	14799.4
60°	13740.2	15320.6	15693.4	15351.8	13605.2	13351.2	15288.3	15073.6
62.5°	14272.5	15666.3	15928.1	15560.4	14235.1	14256.2	15405.2	14925.5
65°	14034.6	14792.4	14877.1	14846.8	14072.8	14781.3	14984.8	14241.1
67.5°	12732.4	12583.3	12725.4	12921.9	12682.1	14089.9	13821.0	12750.6
70°	10438.8	9619.4	9902.6	10034.5	10143.4	12124.8	11995.7	10385.3
72.5°	7866.8	6739.2	6962.9	6935.6	7439.6	9725.2	9329.2	7636.0
75°	5574.2	4569.4	4597.5	4586.4	5191.1	7608.9	6755.3	5224.5
77.5°	3900.3	3310.7	3325.7	3388.1	3489.9	5738.5	4826.4	3816.4
80°	2681.7	2512.4	2596.1	2601.1	2418.6	3854.7	3565.6	3062.7
82.5°	1997.4	1746.6	1726.4	1755.6	1895.7	3123.1	2740.2	2124.4
85°	1635.6	1033.9	831.4	1042.0	1680.0	3093.0	1820.1	1120.6
87.5°	921.1	490.8	221.7	411.2	670.1	2047.9	526.0	143.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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