

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: P270221

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270221
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: GWC-AF-02-LED-E1-SLR-7027
Description: GALLEON WALL LUMINAIRE
(2) 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: 9485 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

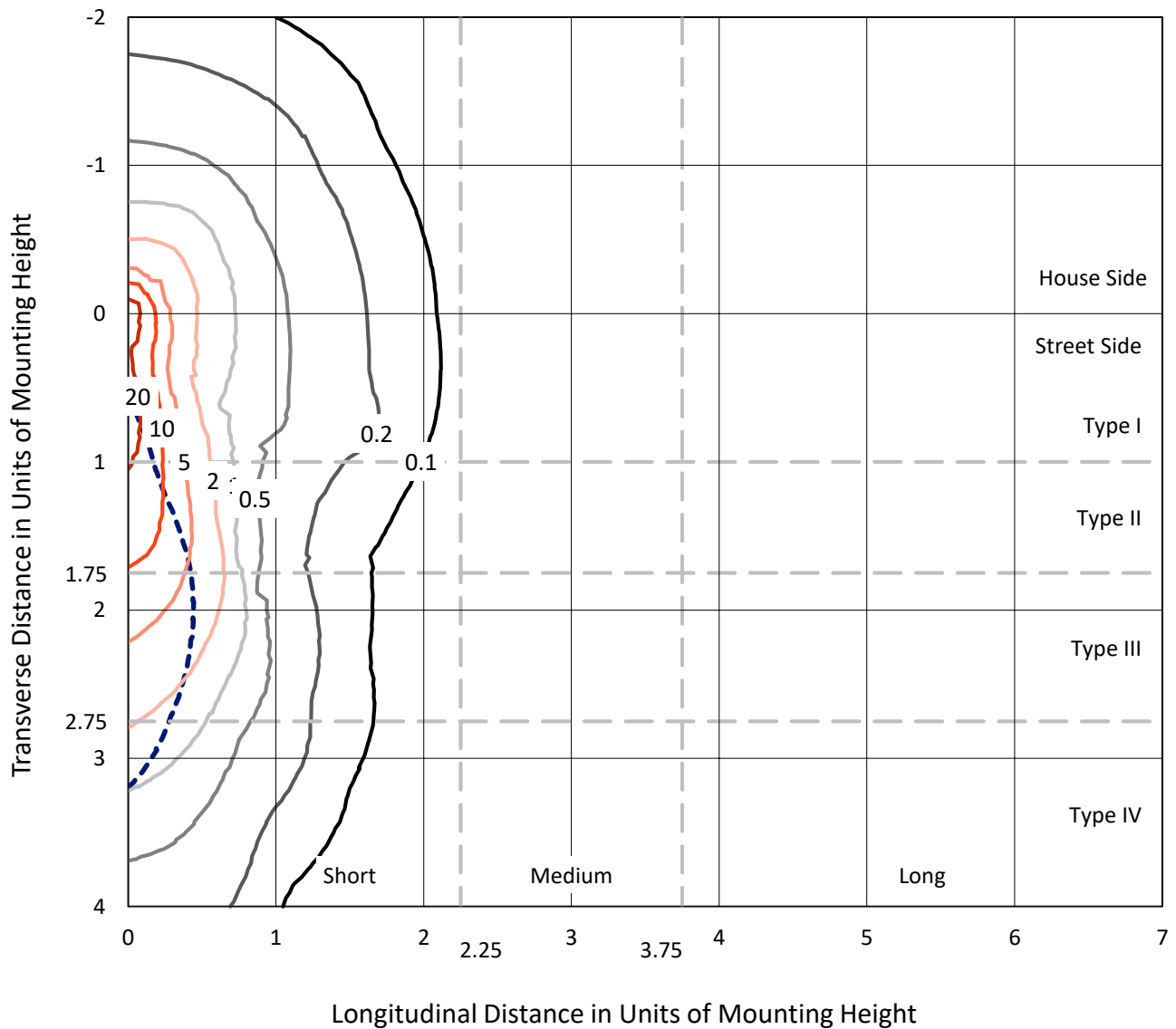
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

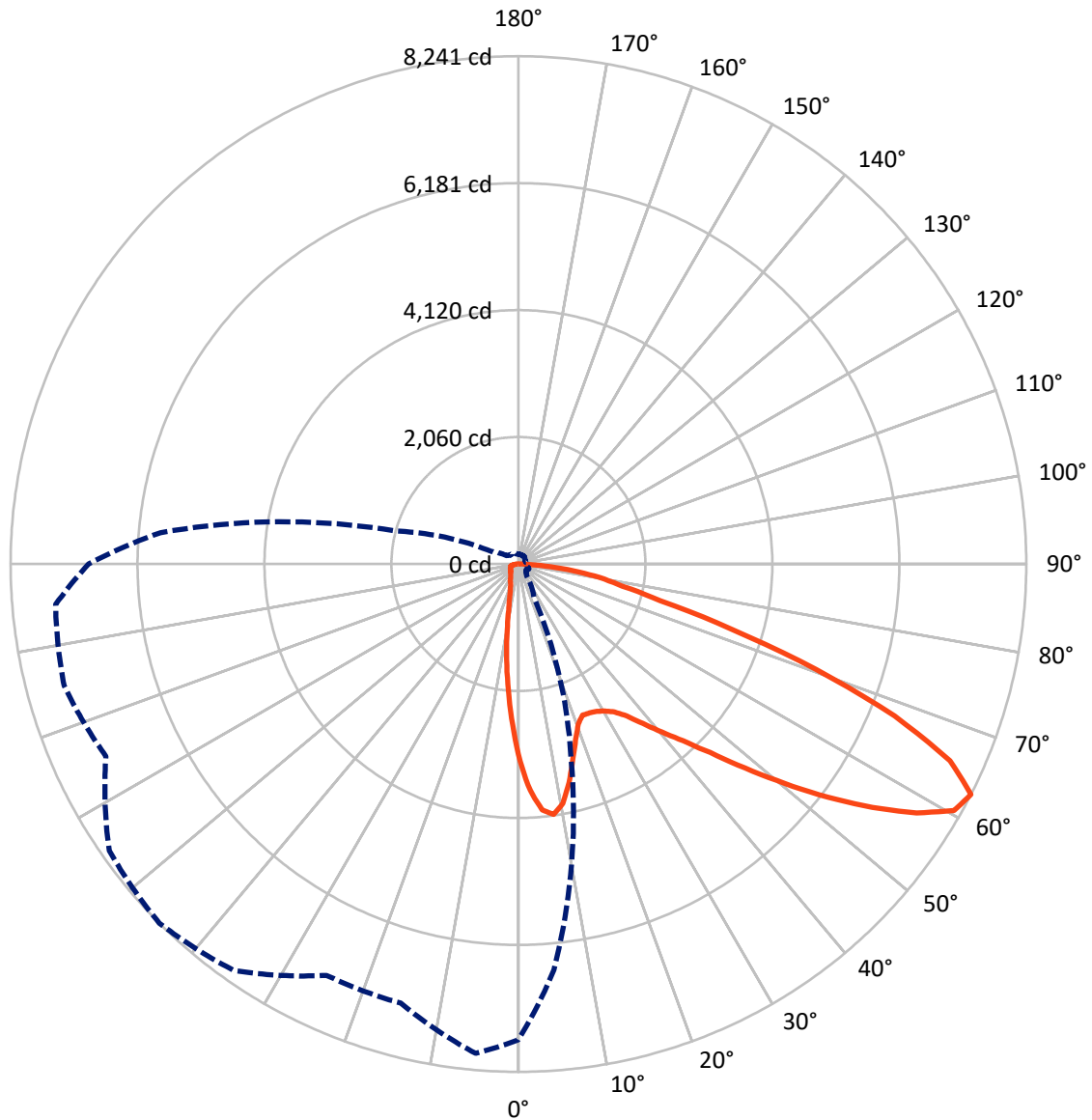
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32 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	1569.6	0.0	1569.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7915.4	0.0	7915.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	9485.0	0.0	9485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.5
10°-20°	427.8	4.5
20°-30°	623.7	6.6
30°-40°	960.6	10.1
40°-50°	1413.7	14.9
50°-60°	2073.6	21.9
60°-70°	2318.0	24.4
70°-80°	1134.9	12.0
80°-90°	299.6	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°	9485.0	100.0
0°-180°	9485.0	100.0



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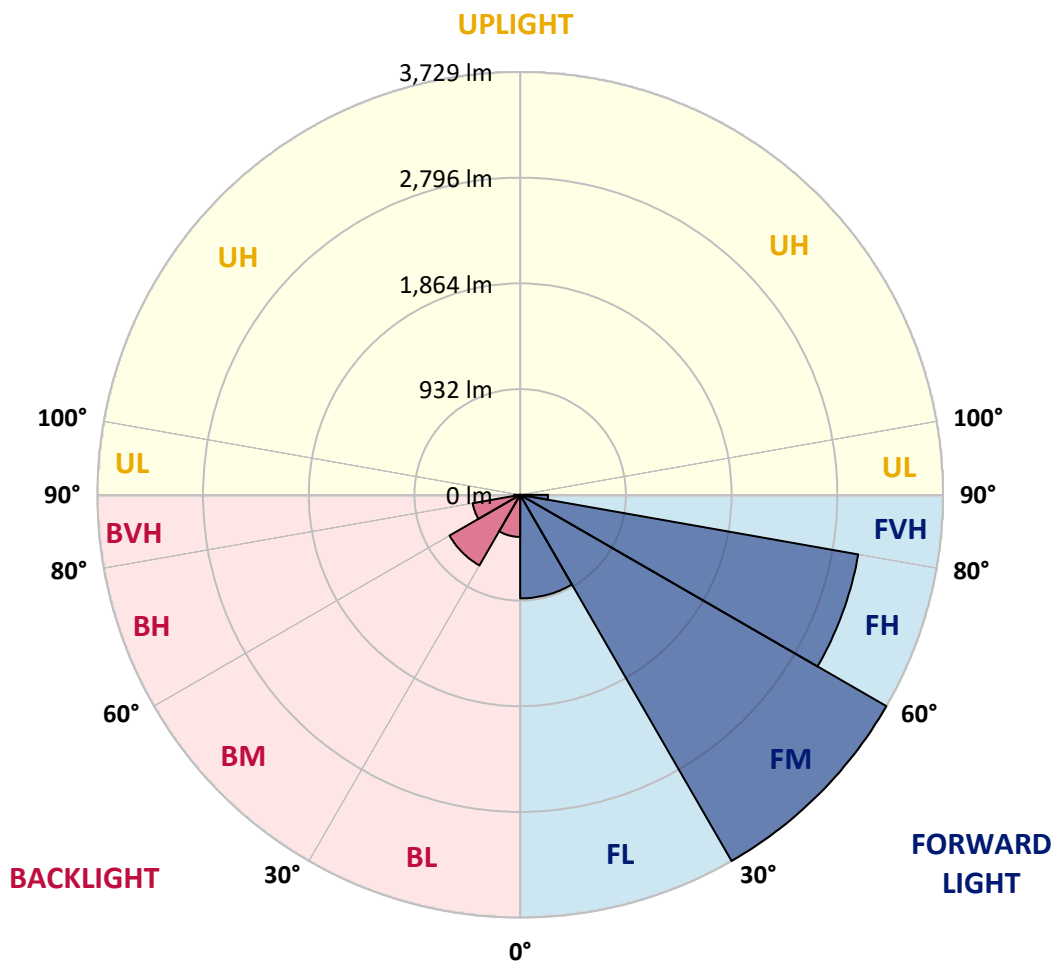
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.4	9.6			
FM	(30°-60°)	3728.7	39.3			
FH	(60°-80°)	3027.3	31.9			G2/5000
FVH	(80°-90°)	246.1	2.6			G3/500
BL	(0°-30°)	371.4	3.9	B1/500		
BM	(30°-60°)	719.2	7.6	B1/1000		
BH	(60°-80°)	425.5	4.5	B1/500		G1/500
BVH	(80°-90°)	53.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3329.7	3261.9	3149.3	3032.0	2960.5	2877.1	2812.0	2754.7	2639.8	2617.4	2637.9
5°	3131.0	2994.9	2782.7	2569.0	2426.6	2273.9	2154.9	2059.5	1914.1	1888.5	1919.3
7.5°	2812.5	2649.8	2369.3	2096.6	1895.3	1704.4	1576.2	1473.9	1360.4	1311.3	1314.5
10°	2537.7	2354.2	2022.5	1725.9	1561.1	1432.3	1324.5	1219.5	1104.3	1028.6	1007.9
12.5°	2383.8	2172.7	1790.5	1525.6	1372.9	1237.2	1121.1	1008.9	885.9	808.7	786.7
15°	2357.2	2127.8	1703.5	1397.4	1206.1	1034.5	897.3	772.3	645.5	582.9	569.9
17.5°	2472.6	2208.2	1675.2	1283.1	1049.1	837.4	669.0	529.2	425.9	394.7	392.1
20°	2693.6	2362.5	1671.7	1175.8	894.3	646.1	466.1	364.4	319.1	310.3	310.8
22.5°	3003.8	2601.9	1716.5	1094.9	751.9	481.9	350.3	305.1	287.3	279.0	279.0
25°	3405.2	2931.3	1819.6	1036.0	628.3	384.8	309.1	282.1	265.4	259.7	260.7
27.5°	3794.4	3252.0	1939.6	989.7	547.4	349.4	293.0	268.6	254.0	248.2	250.7
30°	4097.7	3536.6	2039.7	926.5	506.3	339.4	298.7	273.8	253.0	244.0	244.6
32.5°	4349.1	3785.9	2123.8	881.1	469.8	291.0	257.5	246.7	244.0	233.6	228.3
35°	4670.2	4057.6	2179.9	882.2	452.6	259.7	229.3	210.2	196.0	184.1	184.1
37.5°	5046.7	4369.4	2240.0	894.3	446.3	241.5	219.5	200.2	187.1	175.7	173.6
40°	5418.9	4674.9	2294.7	905.8	442.7	230.4	211.7	193.9	181.9	170.5	167.4
42.5°	5735.5	4926.2	2343.7	911.4	430.2	229.3	205.9	189.8	178.4	165.7	162.7
45°	5969.5	5136.9	2396.4	920.3	417.6	233.6	205.9	189.3	175.2	163.2	160.1
47.5°	6178.6	5384.0	2484.5	920.3	402.5	225.7	212.7	189.8	174.7	162.1	159.5
50°	6458.6	5722.9	2651.3	898.9	381.2	217.4	224.1	187.7	170.0	160.1	156.9
52.5°	6844.5	6157.3	2916.2	861.8	348.4	201.3	222.6	186.7	165.3	154.9	151.3
55°	7300.7	6622.3	3205.2	818.6	299.2	189.8	214.9	184.1	160.1	148.6	144.9
57.5°	7656.9	6942.6	3408.3	751.9	256.6	183.6	190.4	181.5	153.8	141.8	138.7
60°	7798.6	6930.1	3464.3	662.7	235.6	178.4	166.4	203.3	148.6	136.6	132.9
62.5°	7722.0	6609.9	3307.7	600.2	231.0	171.5	155.9	188.3	144.4	132.9	127.7
65°	7368.0	6042.5	2893.4	583.4	244.6	164.7	149.1	147.5	138.7	127.7	122.4
67.5°	6596.9	5194.8	2316.5	585.1	261.8	158.0	142.3	135.0	130.9	122.0	117.3
70°	5373.1	4107.1	1726.9	589.2	270.6	150.1	135.0	127.2	122.4	113.6	110.5
72.5°	3950.7	3165.4	1254.6	562.1	272.1	141.4	125.1	118.3	113.6	104.3	101.7
75°	2703.0	2421.4	870.2	465.6	237.2	128.7	114.2	107.9	104.8	93.3	91.7
77.5°	1974.6	1817.6	556.9	345.7	183.1	113.1	100.6	95.8	93.9	81.3	79.2
80°	1584.5	1438.0	348.4	236.8	133.9	95.0	84.5	81.8	79.8	67.3	65.7
82.5°	1099.2	963.1	223.7	153.8	100.6	73.5	66.7	65.7	62.5	51.2	49.5
85°	579.8	523.0	141.8	104.8	73.0	50.6	46.4	46.4	44.8	33.9	32.9
87.5°	74.0	120.5	72.0	54.7	40.2	22.4	22.4	21.9	23.4	19.4	16.7
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°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	2589.9	2614.8	2590.8	2592.4	2619.0	2698.2	2734.3	2763.9	2795.7	2816.6	2826.0
5°	1877.1	1935.5	1955.3	1997.0	2058.5	2159.6	2199.8	2229.1	2248.3	2259.7	2264.4
7.5°	1283.7	1319.2	1358.7	1426.0	1560.0	1619.5	1646.1	1639.2	1617.4	1609.6	1601.8
10°	967.7	953.6	946.4	983.4	1091.8	1151.7	1170.5	1152.3	1140.3	1143.0	1155.9
12.5°	749.7	725.3	695.6	691.3	762.8	816.5	828.4	829.6	851.5	870.7	899.5
15°	546.3	543.8	529.2	520.4	561.0	604.7	610.0	619.4	639.2	653.2	678.3
17.5°	385.4	399.3	410.9	416.6	447.4	478.6	472.9	468.2	464.6	464.6	476.6
20°	310.8	320.2	334.8	351.4	382.7	404.5	390.6	371.8	358.2	354.0	355.5
22.5°	280.0	287.3	295.6	310.3	338.4	353.6	338.4	324.8	311.4	306.6	305.1
25°	264.3	273.8	281.6	292.5	313.4	323.7	309.1	299.2	291.0	285.2	281.0
27.5°	255.5	263.8	265.9	271.1	288.9	298.2	291.0	286.7	281.6	276.4	271.1
30°	246.0	244.6	240.8	241.5	255.5	264.9	264.3	265.4	264.9	263.4	262.2
32.5°	224.8	221.6	218.5	221.6	234.6	243.0	243.5	245.5	245.5	245.1	249.2
35°	187.1	193.0	196.5	205.9	221.6	228.9	225.7	220.5	211.2	205.4	205.0
37.5°	173.2	174.1	180.4	193.4	210.7	217.4	212.7	200.7	194.6	193.4	195.0
40°	166.4	167.4	170.9	183.1	200.2	207.0	202.8	193.9	188.3	187.7	190.4
42.5°	161.7	162.7	164.7	173.2	187.1	195.6	196.0	189.8	183.1	183.6	186.2
45°	159.0	159.5	159.0	163.2	176.2	186.2	190.4	186.2	180.4	181.5	184.6
47.5°	158.6	156.9	154.9	155.9	169.5	179.3	184.6	183.1	180.4	181.5	184.1
50°	156.5	152.8	150.1	149.7	163.2	173.6	178.4	178.4	179.3	181.5	184.1
52.5°	150.1	146.0	146.0	144.4	159.0	168.9	172.0	172.6	174.1	177.9	181.5
55°	142.3	140.8	142.3	139.7	155.9	165.3	166.8	168.0	168.9	172.0	177.2
57.5°	135.6	133.5	137.1	136.2	153.3	161.7	161.7	163.8	163.8	168.0	172.0
60°	132.0	127.7	129.3	130.3	149.7	158.6	157.5	159.5	160.5	164.2	167.4
62.5°	127.2	123.5	123.5	126.2	145.4	153.8	153.3	154.9	159.0	160.1	163.2
65°	121.5	120.0	118.3	121.5	141.4	148.6	149.1	151.3	154.9	155.9	158.6
67.5°	115.7	116.3	113.1	116.3	137.6	143.4	143.4	147.5	149.1	151.3	153.8
70°	109.6	110.0	107.3	111.1	135.0	137.6	137.1	142.9	143.9	145.4	148.1
72.5°	101.7	101.7	100.6	105.8	130.9	132.0	130.9	135.6	136.2	137.6	138.7
75°	93.3	93.3	92.3	99.6	128.3	125.7	122.4	126.2	127.2	128.3	128.3
77.5°	82.4	83.5	83.5	92.3	119.5	123.1	112.6	114.8	116.3	116.8	115.3
80°	68.8	71.4	72.5	83.9	100.2	113.6	100.6	102.1	102.8	102.8	100.6
82.5°	52.7	57.3	59.9	72.5	76.6	95.4	87.6	89.1	87.6	84.5	83.5
85°	36.6	42.8	45.9	55.2	57.9	73.5	73.0	73.0	69.9	65.7	65.1
87.5°	19.9	23.4	25.5	32.9	39.6	49.5	53.7	52.1	49.5	46.9	47.4
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°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	2875.0	2945.9	3059.1	3145.7	3232.7	3316.6	3407.5	3476.7	3535.6	3558.5	3628.4
5°	2311.9	2400.5	2507.3	2700.3	2836.9	2987.7	3161.9	3392.3	3480.9	3603.5	3804.1
7.5°	1634.6	1715.0	1887.0	2042.8	2236.3	2449.6	2684.8	3002.8	3119.1	3315.6	3642.5
10°	1220.5	1314.0	1452.1	1583.5	1754.0	1972.0	2242.0	2597.7	2738.9	2952.2	3328.7
12.5°	983.4	1093.3	1239.9	1363.4	1495.4	1649.2	1911.5	2301.5	2490.7	2677.4	3058.0
15°	755.6	870.7	1006.8	1163.8	1309.3	1475.0	1749.9	2176.4	2394.3	2588.7	2913.7
17.5°	523.0	621.4	793.1	956.8	1143.0	1355.2	1705.1	2203.0	2463.2	2687.3	2938.6
20°	370.7	427.1	567.8	757.6	989.7	1256.1	1696.7	2342.7	2681.1	2937.1	3099.2
22.5°	311.8	332.6	414.5	588.7	856.7	1182.0	1725.9	2538.7	2975.1	3302.1	3355.2
25°	284.1	296.7	339.4	462.0	738.2	1128.4	1824.4	2830.6	3339.1	3667.1	3657.7
27.5°	269.0	282.1	310.3	390.0	649.1	1094.9	1922.9	3176.9	3755.2	4063.4	3946.6
30°	264.3	282.1	311.8	367.5	585.5	1042.4	2003.8	3480.9	4075.3	4330.8	4077.9
32.5°	260.7	263.4	276.9	317.0	525.1	980.8	2058.5	3753.6	4388.7	4585.3	4267.2
35°	210.7	223.7	245.5	284.1	489.5	943.7	2058.5	3988.7	4697.3	4842.4	4447.6
37.5°	202.8	214.2	233.6	266.4	469.8	925.6	2017.4	4215.6	5012.8	5133.8	4596.2
40°	198.6	208.0	226.4	253.0	461.5	904.7	1957.3	4415.8	5320.9	5425.8	4734.8
42.5°	195.6	203.8	221.1	244.6	450.5	881.6	1908.9	4576.3	5588.4	5675.0	4867.3
45°	193.9	202.8	221.6	248.7	428.6	851.5	1892.6	4750.0	5808.4	5883.0	5010.7
47.5°	193.9	204.4	224.1	257.5	402.5	820.2	1943.3	4978.9	6016.5	6053.0	5179.6
50°	192.3	203.8	231.6	248.7	364.4	780.5	2062.1	5267.2	6241.8	6245.9	5393.5
52.5°	189.3	202.8	249.2	243.5	320.6	728.3	2222.8	5637.5	6575.0	6599.9	5728.1
55°	185.6	201.3	244.6	231.6	284.8	666.4	2354.2	6087.5	7043.2	7112.5	6220.4
57.5°	180.9	199.2	236.8	214.9	261.2	586.6	2401.6	6417.0	7370.1	7544.2	6775.1
60°	176.7	197.5	213.7	205.0	246.7	519.3	2309.8	6351.7	7347.6	7723.1	7266.7
62.5°	172.6	199.2	195.0	198.6	239.8	476.0	2070.0	5829.8	6975.9	7538.4	7631.3
65°	168.0	185.1	184.1	193.4	238.3	458.9	1715.9	5047.1	6257.4	6955.0	7717.2
67.5°	161.7	170.9	176.2	186.7	243.5	443.8	1384.8	4163.5	5258.9	6080.6	7268.9
70°	154.9	162.7	168.4	178.4	240.3	436.9	1151.7	3283.2	4172.7	4983.5	6384.1
72.5°	146.0	152.8	158.0	167.4	237.2	433.3	973.0	2644.0	3115.4	3701.9	5190.5
75°	135.6	141.8	145.4	154.9	227.4	396.8	764.8	2237.4	2331.2	2575.3	4134.2
77.5°	123.5	128.3	131.4	141.8	201.3	330.0	553.1	1725.9	1810.4	1869.7	3169.6
80°	109.6	114.2	115.7	125.7	166.8	258.2	360.8	1274.9	1354.0	1367.7	2070.0
82.5°	93.3	98.1	98.1	107.3	136.6	185.6	236.8	873.3	889.1	934.9	1463.1
85°	75.1	78.7	78.7	83.5	105.8	138.7	162.7	438.6	433.8	495.3	1267.6
87.5°	53.7	56.4	58.8	59.9	75.5	91.7	98.1	133.5	88.2	101.1	814.0
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: GWC-AF-02-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3681.2	3710.9	3680.5	3658.6	3564.4	3486.6	3382.8	3329.7
5°	3956.9	4032.5	4007.0	3915.3	3718.2	3496.6	3244.7	3131.0
7.5°	3923.5	4099.2	4103.5	3931.9	3641.5	3315.0	2974.1	2812.5
10°	3663.8	3888.7	3952.8	3786.4	3478.2	3113.3	2722.3	2537.7
12.5°	3374.0	3594.1	3643.0	3585.8	3328.1	2961.6	2564.8	2383.8
15°	3136.8	3235.3	3293.7	3343.9	3199.4	2901.0	2555.9	2357.2
17.5°	2992.3	2981.4	2998.1	3085.1	3109.7	2970.4	2691.5	2472.6
20°	2940.2	2772.9	2768.7	2888.6	3067.4	3135.8	2956.3	2693.6
22.5°	2968.9	2697.8	2663.4	2805.6	3089.8	3374.0	3303.6	3003.8
25°	3067.9	2704.0	2676.4	2814.0	3171.1	3628.0	3678.5	3405.2
27.5°	3223.8	2743.7	2707.1	2848.4	3279.2	3841.2	4047.7	3794.4
30°	3371.9	2812.5	2767.0	2916.2	3377.6	3925.7	4274.0	4097.7
32.5°	3551.8	2941.2	2861.6	3040.9	3499.6	4060.2	4475.7	4349.1
35°	3728.1	3124.8	3025.8	3233.2	3635.8	4227.6	4706.2	4670.2
37.5°	3921.6	3364.6	3282.8	3481.9	3821.8	4385.5	5000.2	5046.7
40°	4128.0	3682.7	3585.8	3844.8	4110.7	4583.7	5307.4	5418.9
42.5°	4335.9	4035.6	3919.9	4182.7	4428.3	4779.3	5570.2	5735.5
45°	4574.3	4418.9	4364.1	4648.3	4733.3	4965.3	5764.2	5969.5
47.5°	4851.7	4853.7	4941.8	5055.5	5041.0	5175.9	5959.1	6178.6
50°	5175.4	5396.6	5591.1	5666.6	5358.0	5402.2	6229.7	6458.6
52.5°	5564.5	6045.8	6286.6	6237.0	5699.4	5678.6	6658.3	6844.5
55°	6051.0	6732.8	6972.3	6936.8	6092.0	6055.0	7192.3	7300.7
57.5°	6614.0	7398.7	7618.7	7459.3	6563.5	6468.1	7633.8	7656.9
60°	7108.8	7926.5	8119.3	7942.5	7038.9	6907.5	7909.8	7798.6
62.5°	7384.2	8105.2	8240.8	8050.5	7364.8	7375.9	7970.2	7722.0
65°	7261.1	7653.2	7696.9	7681.3	7280.9	7647.5	7752.8	7368.0
67.5°	6587.5	6510.2	6583.8	6685.5	6561.4	7289.7	7150.6	6596.9
70°	5400.7	4976.8	5123.4	5191.7	5248.0	6273.0	6206.3	5373.1
72.5°	4070.1	3486.6	3602.5	3588.3	3849.0	5031.5	4826.7	3950.7
75°	2883.9	2364.1	2378.6	2373.0	2685.8	3936.6	3494.9	2703.0
77.5°	2017.9	1712.8	1720.7	1753.0	1805.7	2968.9	2497.0	1974.6
80°	1387.4	1299.8	1343.1	1345.8	1251.3	1994.3	1844.7	1584.5
82.5°	1033.4	903.5	893.2	908.2	980.8	1615.8	1417.6	1099.2
85°	846.3	535.0	430.2	539.2	869.2	1600.2	941.7	579.8
87.5°	476.6	254.0	114.8	212.7	346.7	1059.6	272.1	74.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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