

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: P200164

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200164
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-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 7358.1 lumens
Efficiency: N/A
Efficacy: 111.5 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 - G2

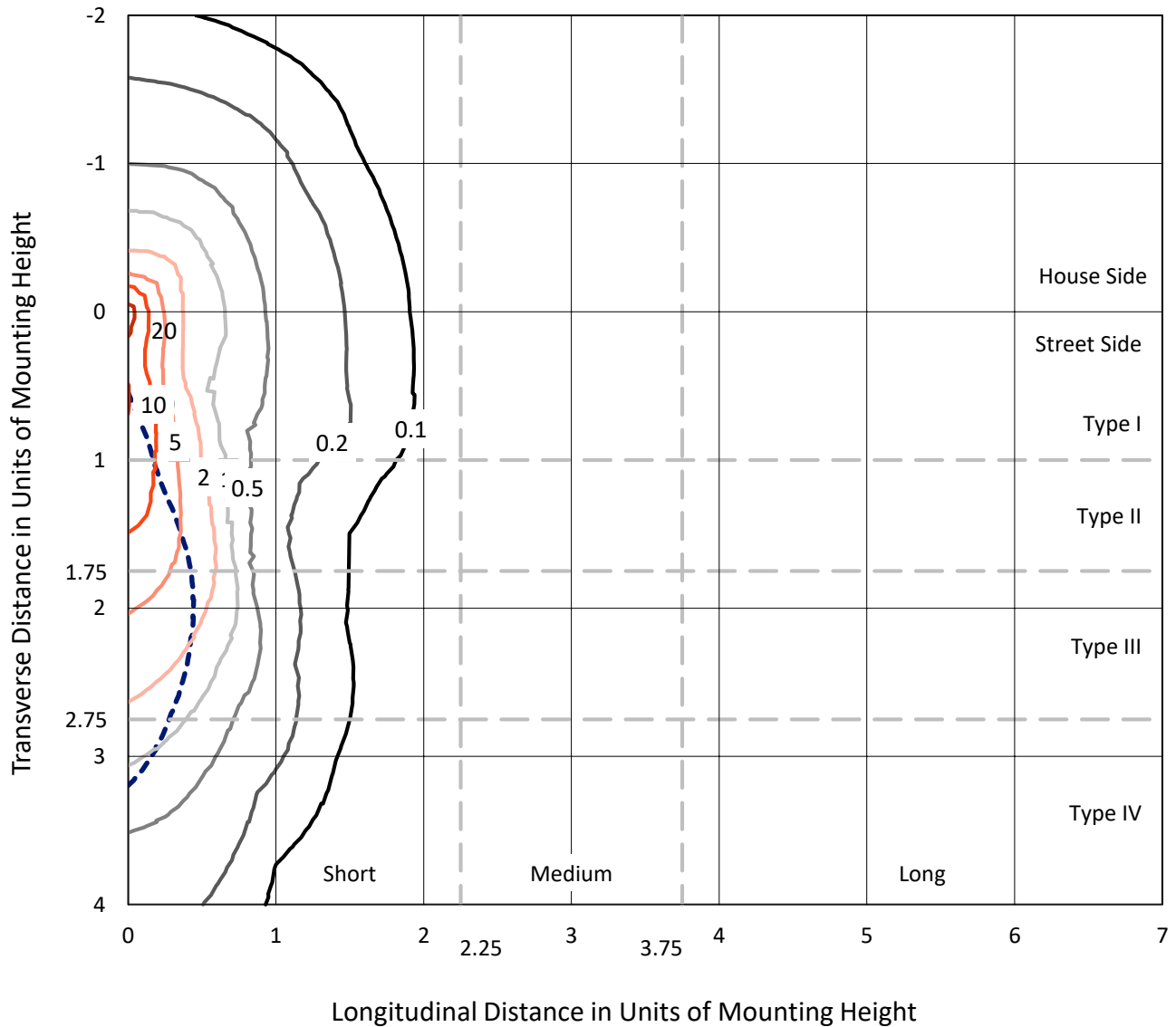
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200164
 CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

Iso-Footcandle Lines of Horizontal Illumination

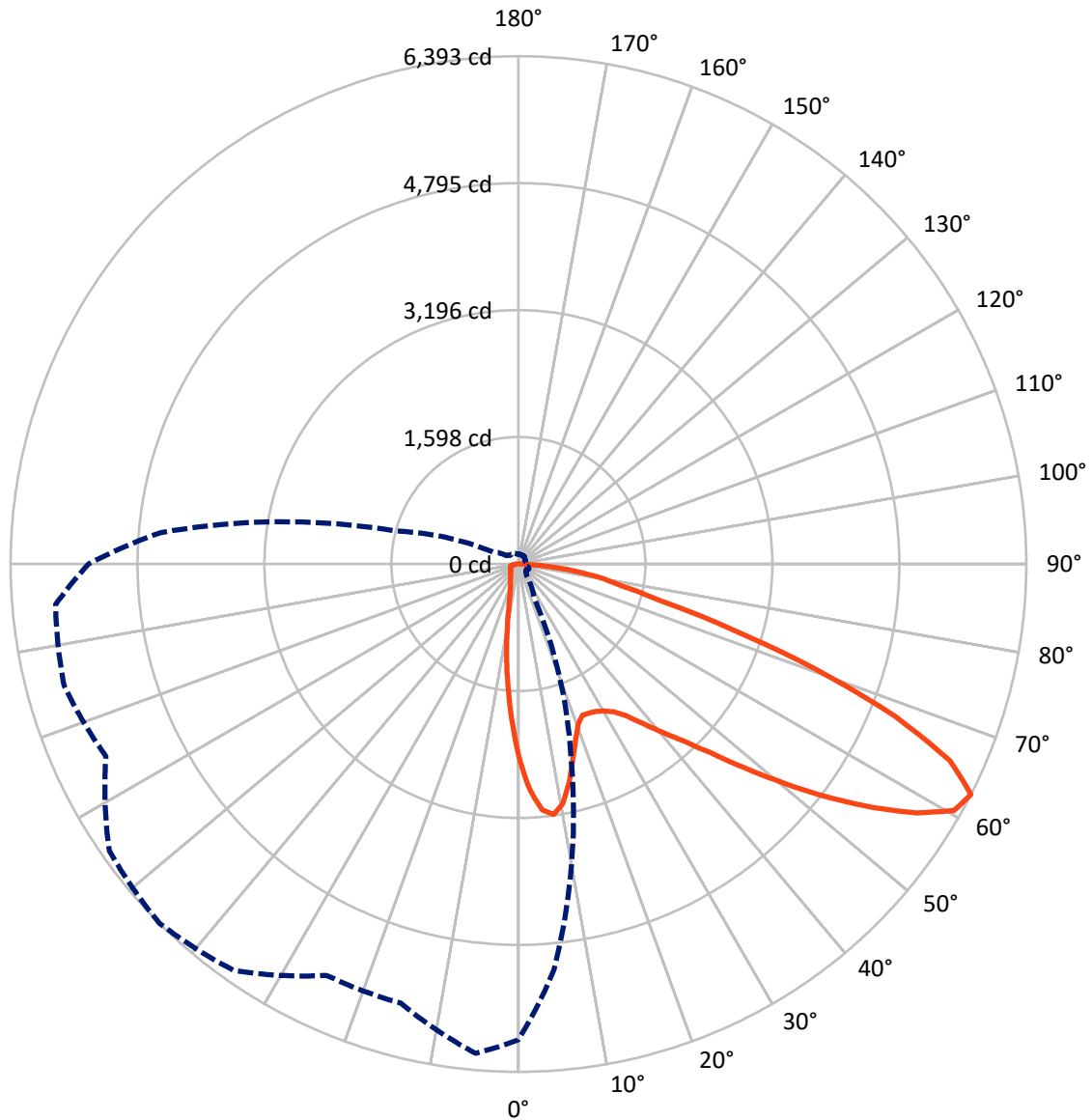
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P200164
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P200164

CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.7	0.0	1217.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6140.4	0.0	6140.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	7358.1	0.0	7358.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.5
10°-20°	331.8	4.5
20°-30°	483.8	6.6
30°-40°	745.2	10.1
40°-50°	1096.7	14.9
50°-60°	1608.6	21.9
60°-70°	1798.2	24.4
70°-80°	880.4	12.0
80°-90°	232.4	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°	7358.1	100.0
0°-180°	7358.1	100.0



REPORT NUMBER: P200164

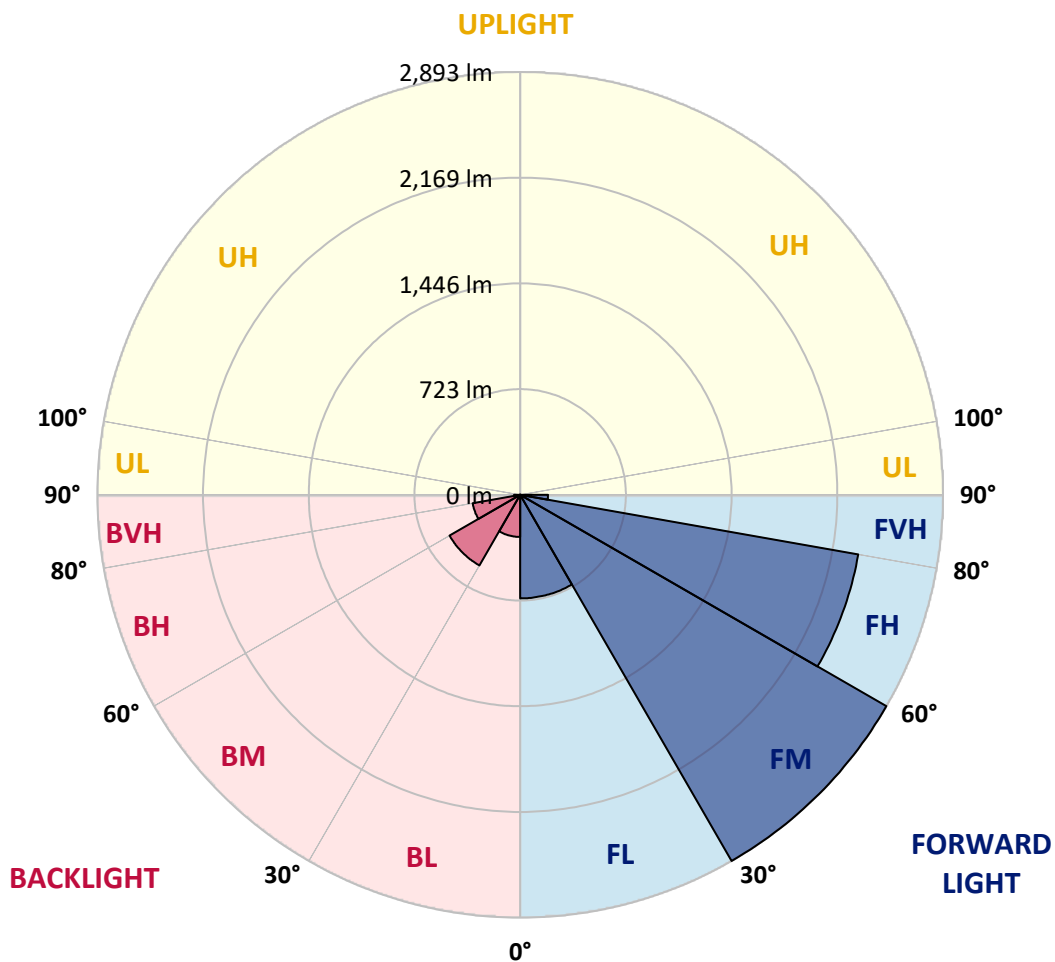
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.6	9.6			
FM	(30°-60°)	2892.5	39.3			
FH	(60°-80°)	2348.4	31.9			G2/5000
FVH	(80°-90°)	190.9	2.6			G2/225
BL	(0°-30°)	288.1	3.9	B1/500		
BM	(30°-60°)	557.9	7.6	B1/1000		
BH	(60°-80°)	330.1	4.5	B1/500		G1/500
BVH	(80°-90°)	41.6	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-G2

Type IV Short





REPORT NUMBER: P200164

CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2583.1	2530.5	2443.1	2352.1	2296.6	2232.0	2181.3	2136.8	2047.9	2030.6	2046.3
5°	2428.9	2323.3	2158.7	1992.9	1882.4	1764.0	1671.7	1597.7	1484.8	1465.1	1488.9
7.5°	2181.7	2055.6	1837.9	1626.4	1470.3	1322.3	1222.7	1143.5	1055.3	1017.3	1019.7
10°	1968.7	1826.3	1569.0	1338.8	1211.1	1111.1	1027.3	946.1	856.7	798.0	781.8
12.5°	1849.3	1685.5	1389.0	1183.6	1065.0	959.8	869.6	782.7	687.2	627.4	610.4
15°	1828.6	1650.7	1321.4	1084.0	935.6	802.5	696.1	599.0	500.7	452.2	442.1
17.5°	1918.0	1713.0	1299.6	995.4	813.9	649.6	518.9	410.5	330.4	306.2	304.1
20°	2089.6	1832.7	1296.8	912.1	693.7	501.1	361.6	282.7	247.6	240.7	241.1
22.5°	2330.3	2018.4	1331.6	849.5	583.3	373.8	271.8	236.6	222.9	216.4	216.4
25°	2641.7	2274.0	1411.7	803.7	487.4	298.5	239.9	218.8	205.9	201.4	202.2
27.5°	2943.4	2522.8	1504.7	767.7	424.7	271.0	227.3	208.3	197.0	192.5	194.6
30°	3178.8	2743.7	1582.3	718.7	392.7	263.3	231.8	212.4	196.2	189.3	189.7
32.5°	3373.8	2937.0	1647.5	683.5	364.5	225.7	199.8	191.3	189.3	181.2	177.2
35°	3623.0	3147.7	1691.1	684.4	351.1	201.4	178.0	163.0	152.1	142.8	142.8
37.5°	3915.0	3389.5	1737.7	693.7	346.3	187.3	170.3	155.3	145.3	136.4	134.7
40°	4203.8	3626.6	1780.1	702.6	343.4	178.8	164.2	150.5	141.2	132.3	129.8
42.5°	4449.3	3821.5	1818.2	707.1	333.7	178.0	159.8	147.2	138.3	128.6	126.2
45°	4630.9	3985.0	1859.0	713.9	324.0	181.2	159.8	146.8	136.0	126.6	124.2
47.5°	4793.1	4176.7	1927.3	713.9	312.3	175.1	165.0	147.2	135.5	125.8	123.8
50°	5010.3	4439.6	2056.8	697.3	295.6	168.7	173.9	145.6	131.9	124.2	121.7
52.5°	5309.6	4776.6	2262.3	668.6	270.2	156.1	172.7	144.8	128.2	120.1	117.3
55°	5663.6	5137.4	2486.4	635.0	232.2	147.2	166.6	142.8	124.2	115.3	112.4
57.5°	5939.9	5385.7	2644.1	583.3	199.0	142.4	147.6	140.8	119.3	110.1	107.6
60°	6049.8	5376.0	2687.4	514.1	182.8	138.3	129.0	157.7	115.3	106.0	103.1
62.5°	5990.4	5127.6	2566.1	465.5	179.2	133.1	120.9	146.0	112.0	103.1	99.1
65°	5715.7	4687.6	2244.5	452.7	189.7	127.8	115.7	114.5	107.6	99.1	95.0
67.5°	5117.5	4029.9	1797.1	453.8	203.1	122.5	110.4	104.8	101.5	94.6	91.0
70°	4168.2	3186.1	1339.7	457.1	209.9	116.5	104.8	98.7	95.0	88.2	85.7
72.5°	3064.8	2455.6	973.2	436.1	211.1	109.7	97.1	91.9	88.2	80.9	78.9
75°	2096.8	1878.4	675.0	361.2	184.0	99.9	88.6	83.7	81.3	72.4	71.2
77.5°	1531.8	1410.0	432.0	268.2	142.0	87.8	78.1	74.5	72.8	63.1	61.5
80°	1229.2	1115.5	270.2	183.6	103.9	73.7	65.6	63.5	61.9	52.2	50.9
82.5°	852.6	747.1	173.5	119.3	78.1	57.1	51.8	50.9	48.5	39.7	38.5
85°	449.8	405.7	110.1	81.3	56.7	39.3	36.0	36.0	34.8	26.3	25.5
87.5°	57.4	93.4	55.9	42.5	31.1	17.4	17.4	17.0	18.2	14.9	13.0
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: P200164

CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2009.1	2028.5	2009.9	2011.1	2031.7	2093.2	2121.1	2144.2	2168.9	2185.0	2192.3
5°	1456.2	1501.5	1516.8	1549.2	1596.9	1675.4	1706.5	1729.2	1744.1	1753.0	1756.7
7.5°	995.8	1023.4	1054.0	1106.2	1210.3	1256.3	1276.9	1271.7	1254.8	1248.6	1242.6
10°	750.7	739.8	734.2	762.8	847.0	893.5	908.1	894.0	884.6	886.6	896.7
12.5°	581.6	562.6	539.6	536.3	591.8	633.4	642.7	643.5	660.5	675.5	697.8
15°	423.9	421.9	410.5	403.7	435.3	469.2	473.2	480.5	495.9	506.8	526.2
17.5°	298.9	309.9	318.8	323.2	347.1	371.3	366.8	363.2	360.4	360.4	369.7
20°	241.1	248.4	259.7	272.6	296.9	313.8	303.0	288.4	277.8	274.7	275.9
22.5°	217.2	222.9	229.3	240.7	262.5	274.3	262.5	252.0	241.5	237.8	236.6
25°	205.1	212.4	218.4	226.9	243.1	251.1	239.9	232.2	225.7	221.3	218.0
27.5°	198.2	204.7	206.3	210.3	224.1	231.4	225.7	222.5	218.4	214.4	210.3
30°	190.9	189.7	186.9	187.3	198.2	205.5	205.1	205.9	205.5	204.3	203.5
32.5°	174.3	171.9	169.5	171.9	182.0	188.5	188.9	190.5	190.5	190.1	193.3
35°	145.3	149.7	152.5	159.8	171.9	177.6	175.1	171.1	163.8	159.4	159.0
37.5°	134.3	135.1	139.9	150.1	163.4	168.7	165.0	155.7	150.9	150.1	151.3
40°	129.0	129.8	132.7	142.0	155.3	160.6	157.3	150.5	146.0	145.6	147.6
42.5°	125.4	126.2	127.8	134.3	145.3	151.7	152.1	147.2	142.0	142.4	144.4
45°	123.4	123.8	123.4	126.6	136.7	144.4	147.6	144.4	139.9	140.8	143.2
47.5°	123.0	121.7	120.1	120.9	131.4	139.1	143.2	142.0	139.9	140.8	142.8
50°	121.3	118.6	116.5	116.1	126.6	134.7	138.3	138.3	139.1	140.8	142.8
52.5°	116.5	113.2	113.2	112.0	123.4	131.0	133.5	133.9	135.1	137.9	140.8
55°	110.4	109.3	110.4	108.4	120.9	128.2	129.4	130.2	131.0	133.5	137.5
57.5°	105.2	103.5	106.4	105.6	119.0	125.4	125.4	127.1	127.1	130.2	133.5
60°	102.3	99.1	100.4	101.2	116.1	123.0	122.1	123.8	124.6	127.5	129.8
62.5°	98.7	95.9	95.9	97.9	112.8	119.3	119.0	120.1	123.4	124.2	126.6
65°	94.2	93.0	91.9	94.2	109.7	115.3	115.7	117.3	120.1	120.9	123.0
67.5°	89.8	90.2	87.8	90.2	106.8	111.2	111.2	114.5	115.7	117.3	119.3
70°	84.9	85.3	83.4	86.1	104.8	106.8	106.4	110.8	111.6	112.8	114.9
72.5°	78.9	78.9	78.1	82.1	101.5	102.3	101.5	105.2	105.6	106.8	107.6
75°	72.4	72.4	71.6	77.2	99.5	97.5	95.0	97.9	98.7	99.5	99.5
77.5°	63.9	64.8	64.8	71.6	92.6	95.4	87.4	89.0	90.2	90.6	89.4
80°	53.4	55.4	56.3	65.2	77.6	88.2	78.1	79.3	79.7	79.7	78.1
82.5°	40.8	44.5	46.5	56.3	59.4	74.1	67.9	69.2	67.9	65.6	64.8
85°	28.3	33.1	35.6	42.9	44.9	57.1	56.7	56.7	54.2	50.9	50.5
87.5°	15.3	18.2	19.8	25.5	30.8	38.5	41.6	40.4	38.5	36.4	36.8
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: P200164

CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2230.3	2285.4	2373.1	2440.2	2507.8	2572.9	2643.3	2697.1	2742.8	2760.6	2814.9
5°	1793.4	1862.3	1945.1	2094.8	2200.8	2317.7	2452.8	2631.5	2700.3	2795.4	2951.1
7.5°	1268.0	1330.3	1463.8	1584.8	1734.8	1900.2	2082.7	2329.5	2419.6	2572.1	2825.7
10°	946.9	1019.3	1126.5	1228.5	1360.7	1529.7	1739.3	2015.1	2124.8	2290.2	2582.2
12.5°	762.8	848.2	961.9	1057.7	1160.0	1279.4	1482.9	1785.4	1932.3	2077.0	2372.3
15°	586.0	675.5	781.0	902.9	1015.7	1144.3	1357.5	1688.3	1857.4	2008.3	2260.2
17.5°	405.7	482.1	615.2	742.3	886.6	1051.3	1322.7	1708.9	1910.8	2084.7	2279.6
20°	287.6	331.2	440.5	587.7	767.7	974.4	1316.2	1817.4	2079.9	2278.4	2404.2
22.5°	241.9	258.1	321.6	456.6	664.6	917.0	1338.8	1969.4	2308.0	2561.6	2602.9
25°	220.4	230.2	263.3	358.3	572.8	875.3	1415.3	2196.0	2590.3	2844.7	2837.5
27.5°	208.7	218.8	240.7	302.6	503.6	849.5	1491.8	2464.5	2913.1	3152.1	3061.5
30°	205.1	218.8	241.9	285.2	454.2	808.5	1554.5	2700.3	3161.4	3359.7	3163.5
32.5°	202.2	204.3	214.8	245.9	407.3	760.9	1596.9	2911.8	3404.6	3557.0	3310.3
35°	163.4	173.5	190.5	220.4	379.8	732.1	1596.9	3094.3	3644.0	3756.5	3450.2
37.5°	157.3	166.2	181.2	206.7	364.5	718.0	1564.9	3270.3	3888.7	3982.6	3565.5
40°	154.2	161.4	175.5	196.2	357.9	701.7	1518.5	3425.6	4127.7	4209.0	3673.1
42.5°	151.7	158.1	171.5	189.7	349.4	683.9	1480.8	3550.2	4335.3	4402.4	3775.8
45°	150.5	157.3	171.9	192.9	332.5	660.5	1468.2	3684.9	4506.0	4563.8	3887.1
47.5°	150.5	158.6	173.9	199.8	312.3	636.3	1507.5	3862.5	4667.3	4695.7	4018.2
50°	149.2	158.1	179.6	192.9	282.7	605.5	1599.7	4086.1	4842.0	4845.3	4184.0
52.5°	146.8	157.3	193.3	188.9	248.8	565.1	1724.3	4373.3	5100.5	5120.0	4443.7
55°	144.0	156.1	189.7	179.6	220.9	516.9	1826.3	4722.4	5463.8	5517.6	4825.5
57.5°	140.3	154.5	183.6	166.6	202.6	455.0	1863.1	4978.0	5717.4	5852.5	5255.8
60°	137.1	153.3	165.8	159.0	191.3	402.8	1791.9	4927.5	5700.0	5991.2	5637.3
62.5°	133.9	154.5	151.3	154.2	186.1	369.3	1605.8	4522.6	5411.6	5848.0	5920.0
65°	130.2	143.6	142.8	150.1	184.8	356.0	1331.2	3915.4	4854.2	5395.5	5986.7
67.5°	125.4	132.7	136.7	144.8	188.9	344.2	1074.3	3229.8	4079.6	4717.1	5638.9
70°	120.1	126.2	130.6	138.3	186.5	339.0	893.5	2547.0	3237.1	3866.0	4952.5
72.5°	113.2	118.6	122.5	129.8	184.0	336.1	754.7	2051.1	2416.8	2871.8	4026.6
75°	105.2	110.1	112.8	120.1	176.4	307.8	593.4	1735.6	1808.5	1997.7	3207.2
77.5°	95.9	99.5	101.9	110.1	156.1	256.0	429.1	1338.8	1404.4	1450.4	2458.9
80°	84.9	88.6	89.8	97.5	129.4	200.2	279.9	989.0	1050.5	1061.0	1605.8
82.5°	72.4	76.0	76.0	83.4	106.0	144.0	183.6	677.5	689.7	725.3	1135.0
85°	58.2	61.1	61.1	64.8	82.1	107.6	126.2	340.1	336.6	384.2	983.3
87.5°	41.6	43.7	45.7	46.5	58.6	71.2	76.0	103.5	68.3	78.5	631.4
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: P200164

CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2855.7	2878.7	2855.3	2838.3	2765.0	2704.8	2624.3	2583.1
5°	3069.7	3128.3	3108.4	3037.2	2884.4	2712.5	2517.1	2428.9
7.5°	3043.8	3180.0	3183.3	3050.2	2824.9	2571.7	2307.2	2181.7
10°	2842.3	3016.7	3066.4	2937.4	2698.3	2415.2	2111.8	1968.7
12.5°	2617.4	2788.2	2826.1	2781.6	2581.8	2297.4	1989.6	1849.3
15°	2433.4	2509.8	2555.1	2594.0	2481.9	2250.6	1982.8	1828.6
17.5°	2321.4	2312.8	2325.8	2393.3	2412.3	2304.3	2087.9	1918.0
20°	2280.9	2151.1	2147.8	2240.9	2379.6	2432.6	2293.5	2089.6
22.5°	2303.2	2092.8	2066.1	2176.5	2397.0	2617.4	2562.8	2330.3
25°	2380.0	2097.7	2076.2	2183.0	2460.1	2814.4	2853.6	2641.7
27.5°	2500.9	2128.4	2100.1	2209.7	2543.8	2979.9	3140.0	2943.4
30°	2615.8	2181.7	2146.6	2262.3	2620.3	3045.3	3315.6	3178.8
32.5°	2755.3	2281.7	2219.8	2358.9	2714.9	3149.7	3472.1	3373.8
35°	2892.1	2424.1	2347.3	2508.2	2820.5	3279.6	3650.9	3623.0
37.5°	3042.2	2610.2	2546.6	2701.1	2964.8	3402.1	3879.0	3915.0
40°	3202.3	2856.9	2781.6	2982.6	3188.9	3555.8	4117.3	4203.8
42.5°	3363.7	3130.7	3040.9	3244.8	3435.3	3707.5	4321.1	4449.3
45°	3548.5	3428.0	3385.6	3606.0	3671.9	3851.9	4471.5	4630.9
47.5°	3763.7	3765.4	3833.7	3921.9	3910.5	4015.3	4622.8	4793.1
50°	4014.9	4186.4	4337.3	4395.9	4156.5	4190.8	4832.7	5010.3
52.5°	4316.6	4690.0	4876.8	4838.5	4421.4	4405.2	5165.3	5309.6
55°	4694.0	5223.1	5408.8	5381.2	4726.0	4697.3	5579.5	5663.6
57.5°	5130.9	5739.7	5910.3	5786.5	5091.6	5017.6	5922.1	5939.9
60°	5514.7	6149.0	6298.6	6161.5	5460.5	5358.6	6136.1	6049.8
62.5°	5728.3	6287.7	6392.8	6245.2	5713.4	5721.9	6182.9	5990.4
65°	5632.9	5937.0	5971.0	5958.9	5648.2	5932.6	6014.2	5715.7
67.5°	5110.3	5050.4	5107.4	5186.3	5090.0	5655.1	5547.1	5117.5
70°	4189.6	3860.8	3974.5	4027.5	4071.1	4866.4	4814.6	4168.2
72.5°	3157.4	2704.8	2794.6	2783.7	2985.9	3903.3	3744.3	3064.8
75°	2237.2	1833.9	1845.3	1840.8	2083.5	3053.8	2711.2	2096.8
77.5°	1565.3	1328.7	1334.7	1359.9	1400.7	2303.2	1937.1	1531.8
80°	1076.3	1008.4	1042.0	1044.0	970.8	1547.1	1431.1	1229.2
82.5°	801.7	700.9	692.8	704.6	760.9	1253.5	1099.8	852.6
85°	656.4	415.0	333.7	418.3	674.2	1241.4	730.5	449.8
87.5°	369.7	197.0	89.0	165.0	268.9	821.9	211.1	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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