

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: P200487

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200487
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-01-LED-E1-SLR-7060
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5588 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

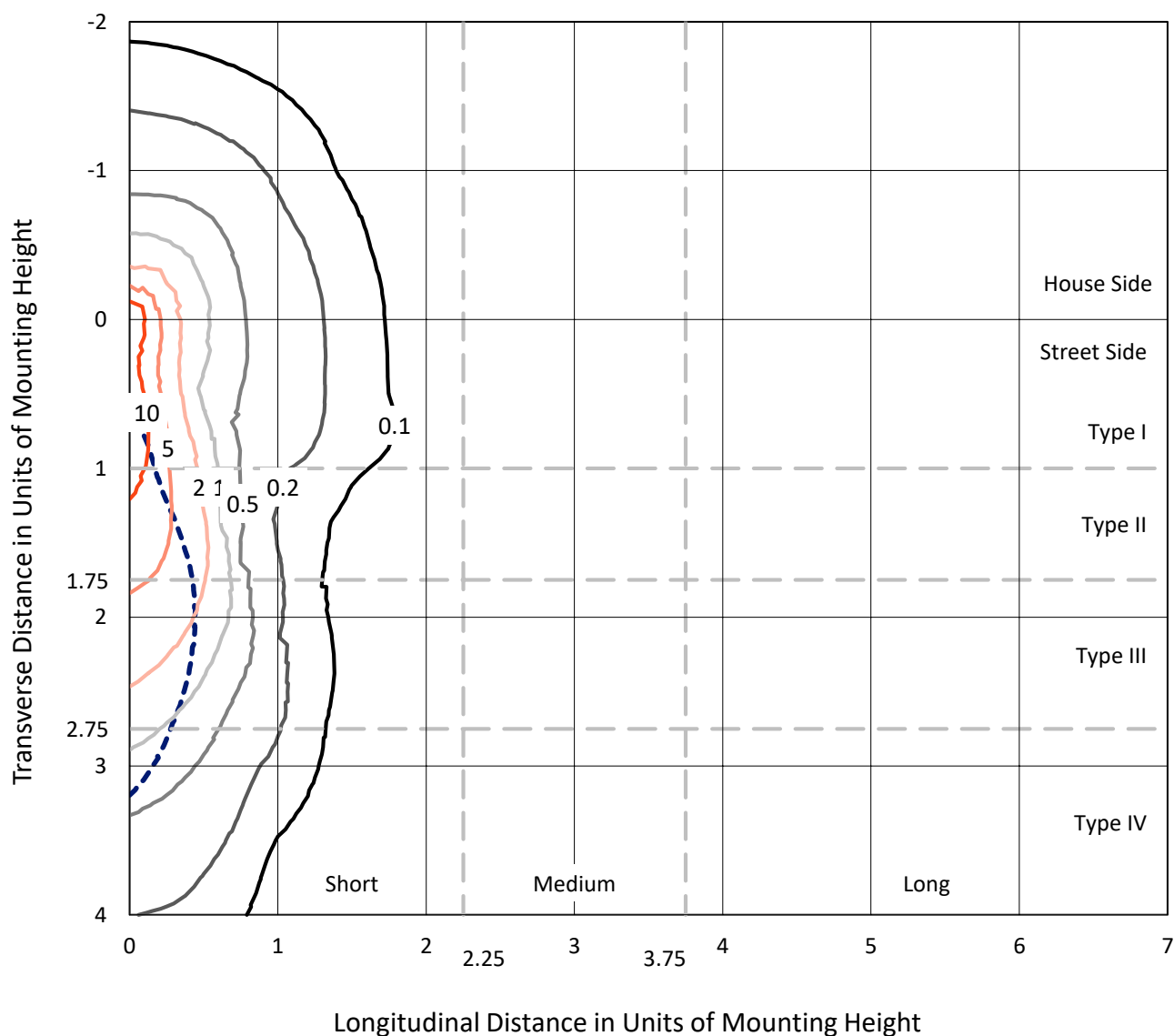


REPORT NUMBER: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

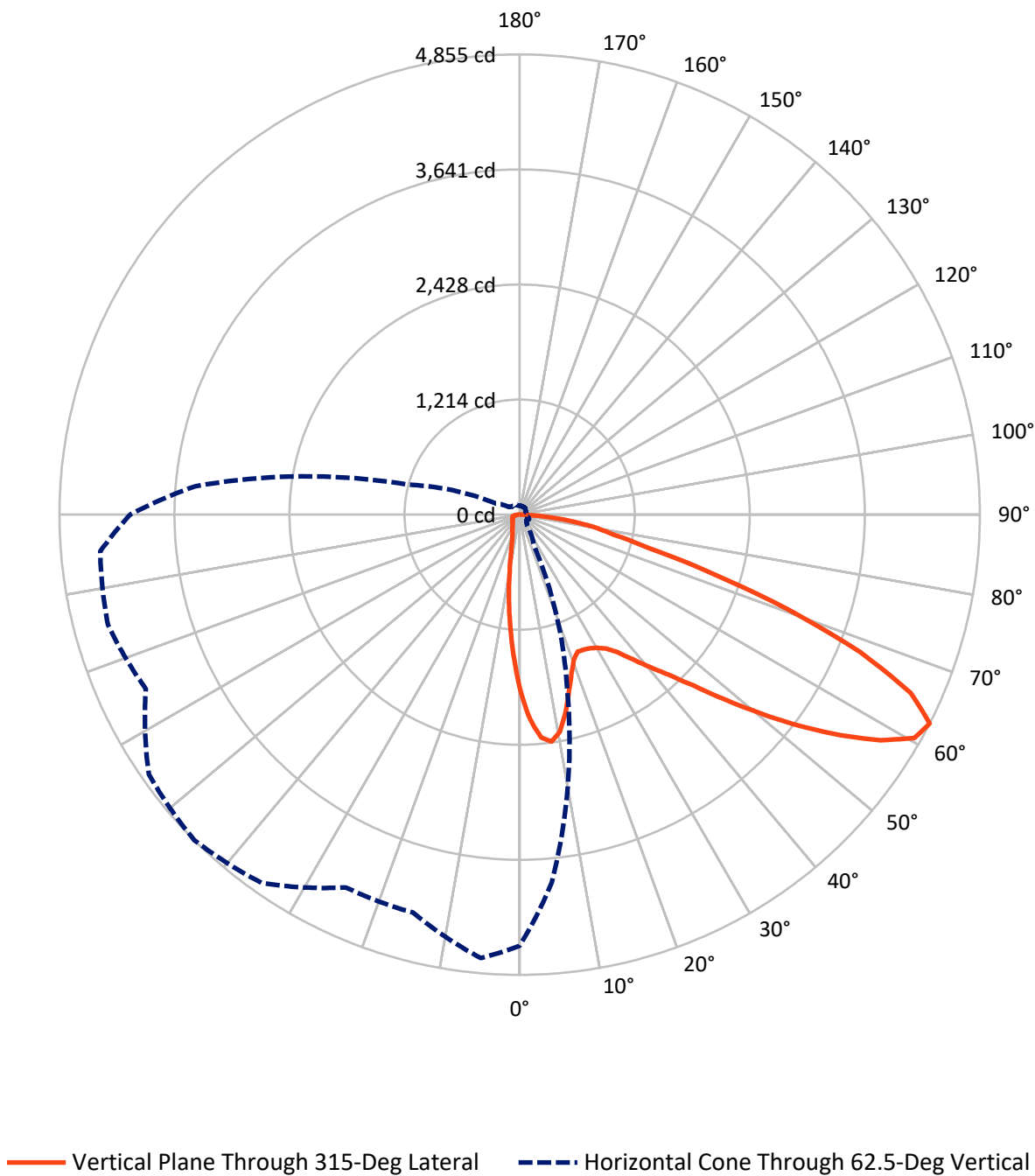


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P200487

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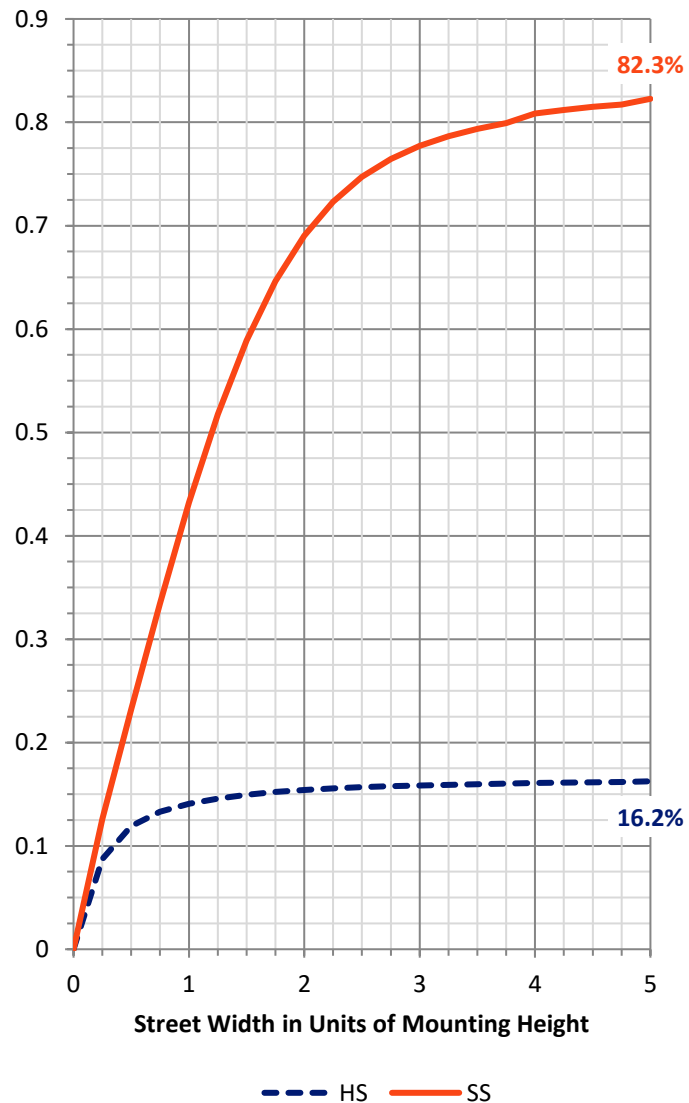
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.7	0.0	924.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4663.3	0.0	4663.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	5588.0	0.0	5588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	2.5
10°-20°	252.0	4.5
20°-30°	367.4	6.6
30°-40°	565.9	10.1
40°-50°	832.9	14.9
50°-60°	1221.6	21.9
60°-70°	1365.6	24.4
70°-80°	668.6	12.0
80°-90°	176.5	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°	5588.0	100.0
0°-180°	5588.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200487

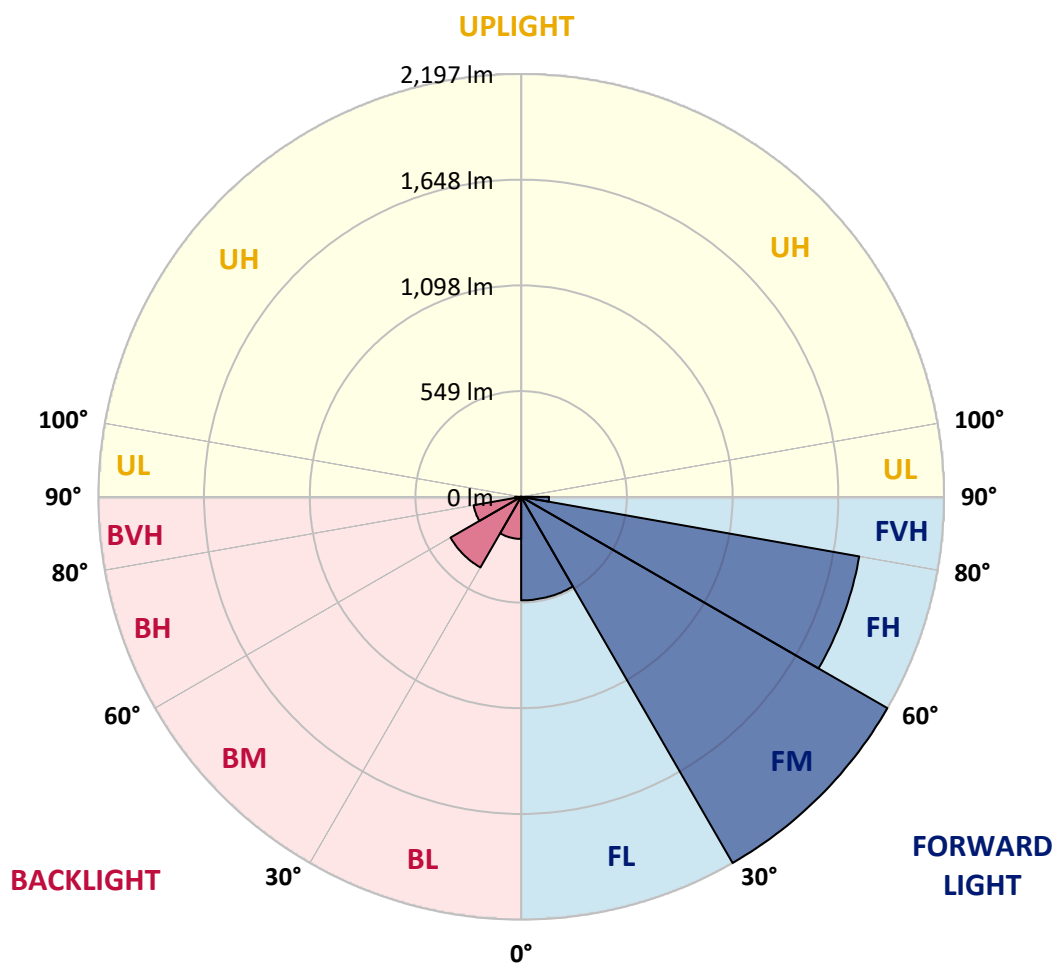
CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.1	9.6			
FM	(30°-60°)	2196.7	39.3			
FH	(60°-80°)	1783.5	31.9			G1/1800
FVH	(80°-90°)	145.0	2.6			G2/225
BL	(0°-30°)	218.8	3.9	B1/500		
BM	(30°-60°)	423.7	7.6	B1/1000		
BH	(60°-80°)	250.7	4.5	B1/500		G1/500
BVH	(80°-90°)	31.6	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: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1961.7	1921.7	1855.4	1786.3	1744.2	1695.0	1656.6	1622.8	1555.3	1542.0	1554.0
5°	1844.6	1764.4	1639.4	1513.5	1429.6	1339.6	1269.6	1213.4	1127.7	1112.6	1130.7
7.5°	1656.9	1561.1	1395.8	1235.2	1116.6	1004.2	928.6	868.4	801.4	772.6	774.4
10°	1495.0	1386.9	1191.6	1016.8	919.7	843.8	780.2	718.5	650.6	606.1	593.8
12.5°	1404.4	1280.0	1054.9	898.8	808.8	728.9	660.4	594.4	521.9	476.4	463.5
15°	1388.8	1253.6	1003.6	823.2	710.5	609.4	528.7	454.9	380.3	343.4	335.7
17.5°	1456.6	1300.9	987.0	756.0	618.0	493.3	394.1	311.8	251.0	232.5	231.0
20°	1586.9	1391.8	984.8	692.7	526.8	380.6	274.6	214.7	188.0	182.8	183.1
22.5°	1769.7	1532.8	1011.2	645.1	443.0	283.8	206.4	179.7	169.3	164.3	164.3
25°	2006.2	1727.0	1072.1	610.4	370.2	226.7	182.2	166.2	156.4	153.0	153.6
27.5°	2235.3	1915.9	1142.7	583.0	322.5	205.8	172.6	158.2	149.6	146.2	147.8
30°	2414.1	2083.6	1201.7	545.9	298.3	200.0	176.0	161.3	149.0	143.8	144.1
32.5°	2562.2	2230.4	1251.1	519.1	276.8	171.4	151.7	145.3	143.8	137.6	134.5
35°	2751.4	2390.5	1284.3	519.7	266.6	153.0	135.2	123.8	115.5	108.4	108.4
37.5°	2973.2	2574.2	1319.6	526.8	262.9	142.2	129.3	118.0	110.3	103.5	102.3
40°	3192.5	2754.2	1351.9	533.6	260.8	135.8	124.7	114.3	107.2	100.4	98.6
42.5°	3379.0	2902.2	1380.8	537.0	253.4	135.2	121.3	111.8	105.1	97.7	95.8
45°	3516.9	3026.3	1411.8	542.2	246.1	137.6	121.3	111.5	103.2	96.1	94.3
47.5°	3640.1	3171.9	1463.7	542.2	237.1	133.0	125.3	111.8	102.9	95.5	94.0
50°	3805.0	3371.6	1562.0	529.6	224.5	128.1	132.1	110.6	100.1	94.3	92.5
52.5°	4032.4	3627.5	1718.1	507.8	205.2	118.6	131.2	110.0	97.4	91.2	89.1
55°	4301.1	3901.5	1888.2	482.3	176.3	111.8	126.6	108.4	94.3	87.5	85.4
57.5°	4510.9	4090.1	2008.0	443.0	151.1	108.1	112.1	106.9	90.6	83.6	81.7
60°	4594.5	4082.7	2040.9	390.4	138.8	105.1	98.0	119.8	87.5	80.5	78.3
62.5°	4549.3	3894.1	1948.7	353.6	136.1	101.1	91.8	110.9	85.1	78.3	75.3
65°	4340.8	3559.9	1704.5	343.7	144.1	97.1	87.9	86.9	81.7	75.3	72.2
67.5°	3886.4	3060.4	1364.8	344.7	154.2	93.1	83.9	79.6	77.1	71.9	69.1
70°	3165.5	2419.7	1017.4	347.1	159.4	88.5	79.6	75.0	72.2	67.0	65.1
72.5°	2327.5	1864.9	739.1	331.1	160.3	83.2	73.7	69.7	67.0	61.4	59.9
75°	1592.4	1426.5	512.7	274.3	139.8	75.9	67.3	63.6	61.7	55.0	54.1
77.5°	1163.3	1070.8	328.1	203.7	107.8	66.7	59.3	56.5	55.3	47.9	46.7
80°	933.5	847.2	205.2	139.5	78.9	55.9	49.8	48.2	47.0	39.6	38.7
82.5°	647.5	567.4	131.8	90.6	59.3	43.3	39.3	38.7	36.9	30.1	29.2
85°	341.6	308.1	83.6	61.7	43.0	29.8	27.3	27.3	26.4	20.0	19.4
87.5°	43.6	71.0	42.4	32.3	23.7	13.2	13.2	12.9	13.8	11.4	9.8
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: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1525.8	1540.5	1526.4	1527.3	1543.0	1589.7	1610.9	1628.4	1647.1	1659.4	1664.9
5°	1105.8	1140.3	1151.9	1176.5	1212.7	1272.3	1296.0	1313.2	1324.6	1331.3	1334.1
7.5°	756.3	777.2	800.5	840.1	919.1	954.1	969.8	965.8	952.9	948.3	943.7
10°	570.1	561.8	557.5	579.3	643.2	678.6	689.6	678.9	671.8	673.3	681.0
12.5°	441.7	427.3	409.8	407.3	449.4	481.0	488.1	488.7	501.6	513.0	529.9
15°	321.9	320.4	311.8	306.6	330.5	356.3	359.4	364.9	376.6	384.9	399.6
17.5°	227.0	235.3	242.1	245.4	263.6	282.0	278.6	275.8	273.7	273.7	280.8
20°	183.1	188.6	197.2	207.0	225.5	238.4	230.1	219.0	211.0	208.6	209.5
22.5°	165.0	169.3	174.2	182.8	199.4	208.3	199.4	191.4	183.4	180.6	179.7
25°	155.7	161.3	165.9	172.3	184.6	190.8	182.2	176.3	171.4	168.0	165.6
27.5°	150.5	155.4	156.7	159.7	170.2	175.7	171.4	168.9	165.9	162.8	159.7
30°	145.0	144.1	141.9	142.2	150.5	156.0	155.7	156.4	156.0	155.1	154.5
32.5°	132.4	130.6	128.7	130.6	138.2	143.1	143.5	144.7	144.7	144.4	146.8
35°	110.3	113.7	115.8	121.3	130.6	134.9	133.0	129.9	124.4	121.0	120.7
37.5°	102.0	102.6	106.3	114.0	124.1	128.1	125.3	118.3	114.6	114.0	114.9
40°	98.0	98.6	100.8	107.8	118.0	122.0	119.5	114.3	110.9	110.6	112.1
42.5°	95.2	95.8	97.1	102.0	110.3	115.2	115.5	111.8	107.8	108.1	109.7
45°	93.7	94.0	93.7	96.1	103.8	109.7	112.1	109.7	106.3	106.9	108.7
47.5°	93.4	92.5	91.2	91.8	99.8	105.7	108.7	107.8	106.3	106.9	108.4
50°	92.2	90.0	88.5	88.2	96.1	102.3	105.1	105.1	105.7	106.9	108.4
52.5°	88.5	86.0	86.0	85.1	93.7	99.5	101.4	101.7	102.6	104.7	106.9
55°	83.9	82.9	83.9	82.3	91.8	97.4	98.3	98.9	99.5	101.4	104.4
57.5°	79.9	78.6	80.8	80.2	90.3	95.2	95.2	96.5	96.5	98.9	101.4
60°	77.7	75.3	76.2	76.8	88.2	93.4	92.8	94.0	94.6	96.8	98.6
62.5°	75.0	72.8	72.8	74.3	85.7	90.6	90.3	91.2	93.7	94.3	96.1
65°	71.6	70.7	69.7	71.6	83.2	87.5	87.9	89.1	91.2	91.8	93.4
67.5°	68.2	68.5	66.7	68.5	81.1	84.5	84.5	86.9	87.9	89.1	90.6
70°	64.5	64.8	63.3	65.4	79.6	81.1	80.8	84.2	84.8	85.7	87.2
72.5°	59.9	59.9	59.3	62.4	77.1	77.7	77.1	79.9	80.2	81.1	81.7
75°	55.0	55.0	54.4	58.7	75.6	74.0	72.2	74.3	75.0	75.6	75.6
77.5°	48.5	49.1	49.1	54.4	70.3	72.5	66.4	67.6	68.5	68.8	67.9
80°	40.5	42.1	42.7	49.5	59.0	67.0	59.3	60.2	60.5	60.5	59.3
82.5°	31.0	33.8	35.3	42.7	45.2	56.2	51.6	52.5	51.6	49.8	49.1
85°	21.5	25.2	27.0	32.6	34.1	43.3	43.0	43.0	41.2	38.7	38.4
87.5°	11.7	13.8	15.1	19.4	23.3	29.2	31.6	30.7	29.2	27.6	28.0
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: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1693.8	1735.6	1802.2	1853.2	1904.5	1954.0	2007.4	2048.3	2083.0	2096.5	2137.7
5°	1362.0	1414.3	1477.2	1590.9	1671.4	1760.1	1862.7	1998.5	2050.7	2122.9	2241.2
7.5°	963.0	1010.3	1111.7	1203.5	1317.5	1443.1	1581.7	1769.0	1837.5	1953.4	2146.0
10°	719.1	774.1	855.5	932.9	1033.4	1161.8	1320.9	1530.4	1613.6	1739.3	1961.0
12.5°	579.3	644.2	730.5	803.3	881.0	971.6	1126.1	1355.9	1467.4	1577.4	1801.6
15°	445.1	513.0	593.2	685.6	771.3	869.0	1030.9	1282.2	1410.6	1525.1	1716.5
17.5°	308.1	366.2	467.2	563.7	673.3	798.4	1004.5	1297.8	1451.1	1583.2	1731.3
20°	218.4	251.6	334.5	446.3	583.0	740.0	999.6	1380.2	1579.5	1730.3	1825.9
22.5°	183.7	196.0	244.2	346.8	504.7	696.4	1016.8	1495.7	1752.8	1945.4	1976.7
25°	167.4	174.8	200.0	272.2	435.0	664.7	1074.8	1667.7	1967.2	2160.4	2154.9
27.5°	158.5	166.2	182.8	229.8	382.4	645.1	1132.9	1871.6	2212.3	2393.9	2325.0
30°	155.7	166.2	183.7	216.6	345.0	614.1	1180.5	2050.7	2400.9	2551.4	2402.5
32.5°	153.6	155.1	163.1	186.8	309.3	577.8	1212.7	2211.4	2585.5	2701.3	2514.0
35°	124.1	131.8	144.7	167.4	288.4	556.0	1212.7	2349.9	2767.4	2852.8	2620.2
37.5°	119.5	126.3	137.6	157.0	276.8	545.2	1188.5	2483.5	2953.2	3024.5	2707.8
40°	117.0	122.6	133.3	149.0	271.9	533.0	1153.2	2601.5	3134.8	3196.5	2789.5
42.5°	115.2	120.1	130.2	144.1	265.4	519.4	1124.6	2696.1	3292.4	3343.3	2867.5
45°	114.3	119.5	130.6	146.5	252.5	501.6	1115.1	2798.4	3422.0	3465.9	2952.0
47.5°	114.3	120.4	132.1	151.7	237.1	483.2	1144.9	2933.3	3544.5	3566.1	3051.5
50°	113.3	120.1	136.4	146.5	214.7	459.8	1214.9	3103.1	3677.3	3679.7	3177.5
52.5°	111.5	119.5	146.8	143.5	188.9	429.1	1309.5	3321.2	3873.5	3888.3	3374.7
55°	109.4	118.6	144.1	136.4	167.7	392.6	1386.9	3586.3	4149.4	4190.2	3664.7
57.5°	106.6	117.3	139.5	126.6	153.9	345.6	1414.9	3780.5	4342.0	4444.6	3991.5
60°	104.1	116.4	125.9	120.7	145.3	306.0	1360.8	3742.1	4328.8	4549.9	4281.2
62.5°	101.7	117.3	114.9	117.0	141.3	280.5	1219.5	3434.6	4109.8	4441.2	4495.9
65°	98.9	109.0	108.4	114.0	140.4	270.3	1010.9	2973.5	3686.5	4097.5	4546.6
67.5°	95.2	100.8	103.8	110.0	143.5	261.4	815.9	2452.8	3098.2	3582.3	4282.4
70°	91.2	95.8	99.2	105.1	141.6	257.4	678.6	1934.3	2458.4	2936.0	3761.1
72.5°	86.0	90.0	93.1	98.6	139.8	255.3	573.2	1557.7	1835.4	2181.0	3058.0
75°	79.9	83.6	85.7	91.2	133.9	233.8	450.6	1318.1	1373.4	1517.2	2435.6
77.5°	72.8	75.6	77.4	83.6	118.6	194.4	325.9	1016.8	1066.5	1101.5	1867.3
80°	64.5	67.3	68.2	74.0	98.3	152.1	212.6	751.1	797.7	805.7	1219.5
82.5°	55.0	57.7	57.7	63.3	80.5	109.4	139.5	514.5	523.7	550.8	861.9
85°	44.2	46.4	46.4	49.1	62.4	81.7	95.8	258.3	255.6	291.8	746.8
87.5°	31.6	33.2	34.7	35.3	44.5	54.1	57.7	78.6	51.9	59.6	479.5
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: P200487

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	2168.7	2186.2	2168.4	2155.5	2099.9	2054.1	1993.0	1961.7
5°	2331.2	2375.7	2360.7	2306.6	2190.5	2059.9	1911.6	1844.6
7.5°	2311.5	2415.0	2417.5	2316.4	2145.3	1953.0	1752.2	1656.9
10°	2158.6	2290.9	2328.7	2230.7	2049.2	1834.2	1603.8	1495.0
12.5°	1987.8	2117.4	2146.3	2112.5	1960.7	1744.8	1511.0	1404.4
15°	1848.0	1906.1	1940.5	1969.9	1884.9	1709.1	1505.8	1388.8
17.5°	1762.9	1756.5	1766.3	1817.6	1832.0	1750.0	1585.7	1456.6
20°	1732.2	1633.6	1631.1	1701.8	1807.1	1847.4	1741.7	1586.9
22.5°	1749.1	1589.3	1569.1	1652.9	1820.3	1987.8	1946.3	1769.7
25°	1807.4	1593.0	1576.8	1657.8	1868.3	2137.4	2167.2	2006.2
27.5°	1899.3	1616.4	1594.9	1678.1	1931.9	2263.0	2384.6	2235.3
30°	1986.5	1656.9	1630.2	1718.1	1989.9	2312.8	2518.0	2414.1
32.5°	2092.5	1732.8	1685.8	1791.5	2061.8	2392.0	2636.8	2562.2
35°	2196.3	1840.9	1782.6	1904.8	2142.0	2490.6	2772.6	2751.4
37.5°	2310.3	1982.2	1934.0	2051.3	2251.6	2583.7	2945.9	2973.2
40°	2431.9	2169.6	2112.5	2265.1	2421.8	2700.4	3126.8	3192.5
42.5°	2554.5	2377.6	2309.4	2464.2	2608.9	2815.6	3281.6	3379.0
45°	2694.9	2603.3	2571.1	2738.5	2788.6	2925.3	3395.9	3516.9
47.5°	2858.3	2859.5	2911.5	2978.4	2969.8	3049.4	3510.8	3640.1
50°	3049.1	3179.3	3293.9	3338.4	3156.6	3182.7	3670.2	3805.0
52.5°	3278.2	3561.8	3703.7	3674.5	3357.8	3345.5	3922.7	4032.4
55°	3564.8	3966.6	4107.6	4086.7	3589.1	3567.3	4237.2	4301.1
57.5°	3896.6	4358.9	4488.5	4394.5	3866.8	3810.6	4497.4	4510.9
60°	4188.1	4669.7	4783.4	4679.3	4146.9	4069.5	4659.9	4594.5
62.5°	4350.3	4775.1	4855.0	4742.9	4338.9	4345.4	4695.6	4549.3
65°	4277.8	4508.8	4534.6	4525.4	4289.5	4505.4	4567.5	4340.8
67.5°	3880.9	3835.4	3878.8	3938.7	3865.6	4294.7	4212.7	3886.4
70°	3181.8	2932.0	3018.3	3058.6	3091.8	3695.7	3656.4	3165.5
72.5°	2397.8	2054.1	2122.3	2114.0	2267.6	2964.3	2843.6	2327.5
75°	1699.0	1392.8	1401.4	1398.0	1582.3	2319.2	2059.0	1592.4
77.5°	1188.8	1009.1	1013.7	1032.7	1063.8	1749.1	1471.1	1163.3
80°	817.4	765.8	791.3	792.8	737.2	1175.0	1086.8	933.5
82.5°	608.8	532.3	526.2	535.1	577.8	952.0	835.2	647.5
85°	498.6	315.2	253.4	317.6	512.1	942.7	554.8	341.6
87.5°	280.8	149.6	67.6	125.3	204.3	624.2	160.3	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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