

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: P270102

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3727.2 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

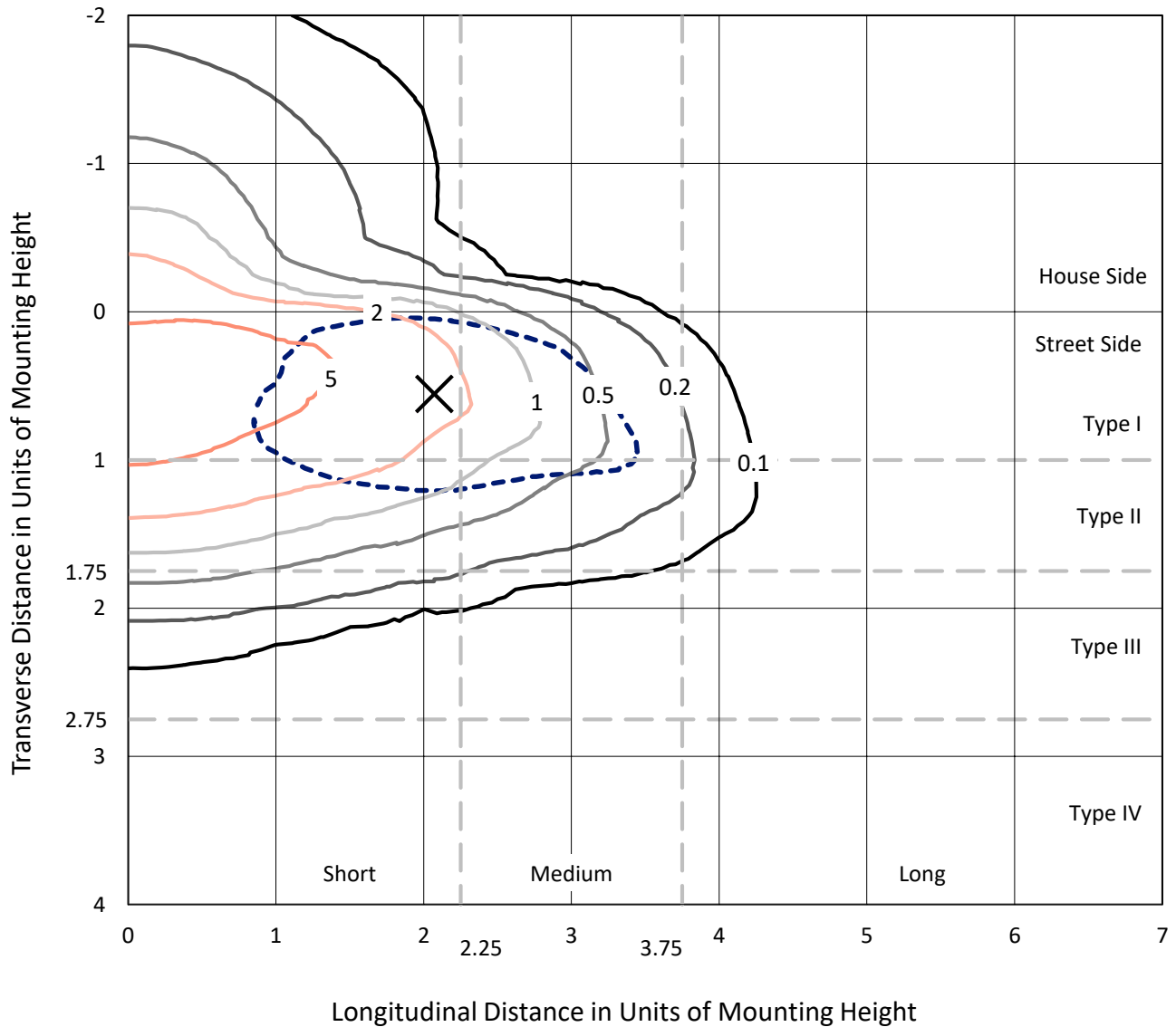
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

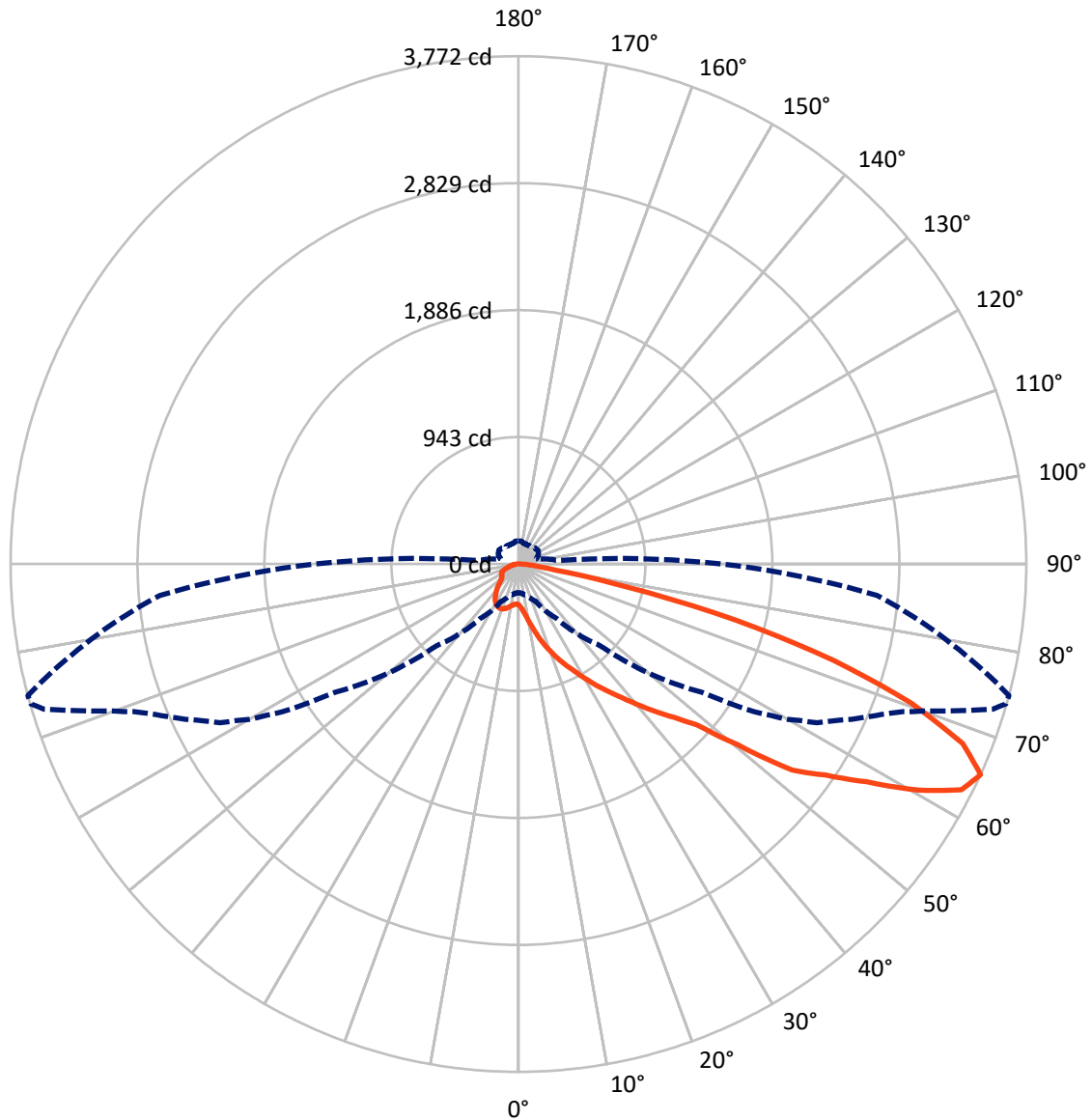
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.6	0.0	574.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3152.6	0.0	3152.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	3727.2	0.0	3727.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.0
10°-20°	146.3	3.9
20°-30°	300.1	8.1
30°-40°	505.0	13.5
40°-50°	697.7	18.7
50°-60°	871.0	23.4
60°-70°	783.8	21.0
70°-80°	328.5	8.8
80°-90°	57.4	1.5
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°	3727.2	100.0
0°-180°	3727.2	100.0

Coefficient of Utilization



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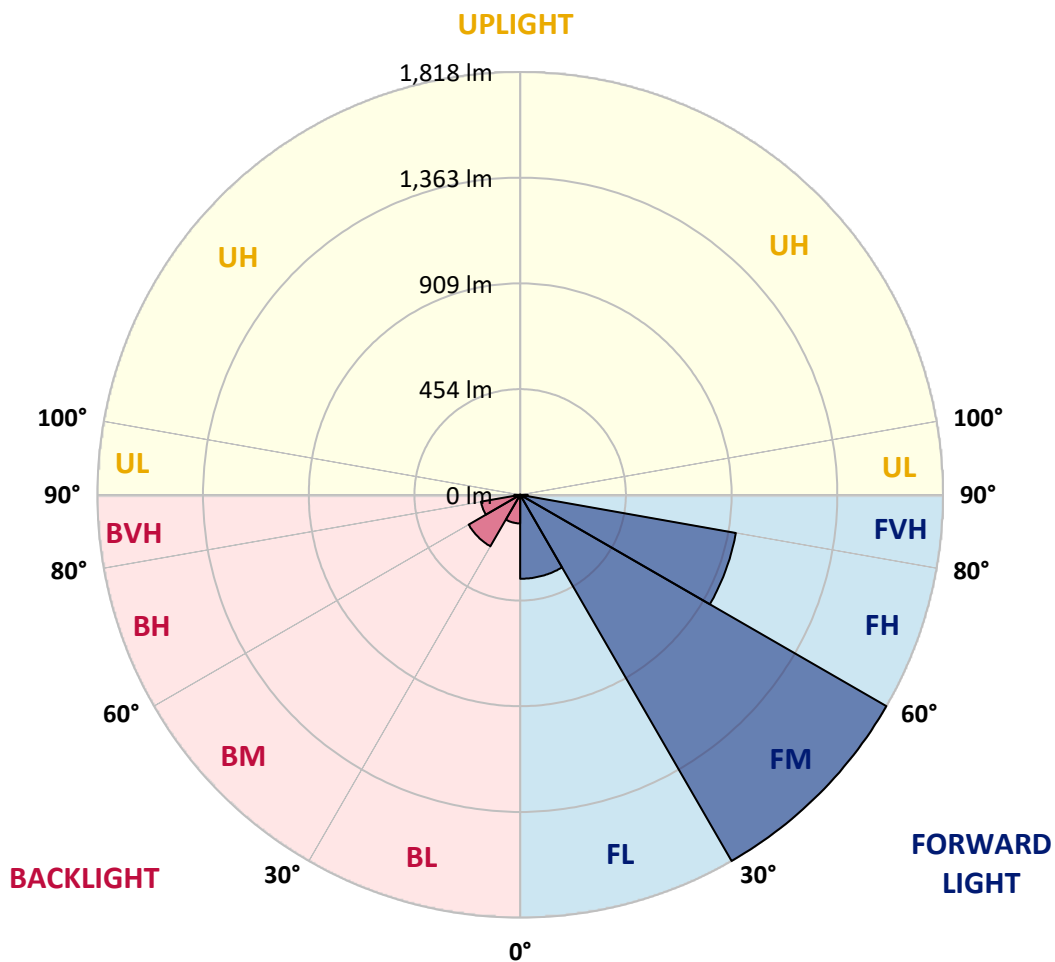
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.0	9.7			
FM	(30°-60°)	1817.8	48.8			
FH	(60°-80°)	941.5	25.3			G1/1800
FVH	(80°-90°)	32.3	0.9			G1/100
BL	(0°-30°)	122.9	3.3	B1/500		
BM	(30°-60°)	255.8	6.9	B1/1000		
BH	(60°-60°)	170.8	4.6	B1/500		G1/500
BVH	(80°-90°)	25.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	384.6	380.3	381.4	374.3	365.7	354.4	342.0	341.7	342.0	340.7	336.1
5°	533.2	528.1	526.2	510.4	487.1	454.0	418.0	414.0	412.5	408.5	399.0
7.5°	641.8	639.1	636.0	624.0	602.9	565.8	517.4	509.2	501.3	499.2	488.7
10°	711.9	711.1	704.8	701.7	688.5	656.3	609.2	601.2	592.6	589.6	578.4
12.5°	767.2	767.1	764.1	764.9	753.4	730.2	689.5	682.4	676.1	666.8	658.9
15°	805.5	805.7	810.1	815.0	813.2	797.5	759.4	756.4	750.8	744.5	735.1
17.5°	837.0	837.8	842.4	851.4	861.1	859.9	829.7	827.1	822.2	813.7	808.7
20°	907.8	911.2	902.3	902.3	903.4	908.2	893.7	891.7	884.8	880.3	876.5
22.5°	1027.7	1031.5	1011.6	991.3	971.3	956.9	942.5	945.1	940.4	937.3	935.0
25°	1183.2	1186.2	1154.0	1119.7	1079.2	1026.2	990.4	988.8	986.3	984.5	983.4
27.5°	1329.7	1330.9	1300.3	1250.3	1203.2	1127.1	1039.1	1037.1	1034.1	1030.4	1027.3
30°	1454.9	1454.5	1423.2	1375.3	1324.9	1240.7	1113.1	1107.0	1098.2	1088.1	1080.3
32.5°	1563.4	1562.9	1528.5	1478.9	1426.0	1353.3	1214.2	1201.9	1188.2	1168.6	1156.7
35°	1648.8	1648.5	1616.0	1564.3	1503.6	1459.3	1330.3	1315.2	1297.7	1271.5	1253.2
37.5°	1681.1	1681.1	1662.9	1627.6	1573.9	1543.6	1459.3	1441.0	1422.3	1392.5	1372.0
40°	1662.2	1662.5	1666.4	1659.9	1633.7	1610.5	1579.7	1568.6	1552.6	1525.8	1504.5
42.5°	1598.8	1600.8	1626.6	1658.1	1671.2	1667.4	1686.4	1681.4	1670.1	1649.5	1632.5
45°	1518.6	1524.5	1552.8	1612.5	1681.6	1716.8	1775.8	1776.4	1774.2	1763.1	1750.1
47.5°	1408.3	1416.8	1454.0	1534.7	1657.2	1764.5	1866.7	1871.4	1875.8	1868.7	1862.6
50°	1261.9	1272.0	1327.7	1434.6	1607.7	1814.1	2038.3	2059.8	2079.9	2077.5	2081.6
52.5°	1105.0	1116.9	1185.1	1304.2	1522.4	1825.6	2148.0	2183.2	2218.3	2247.0	2277.6
55°	963.6	957.2	1025.5	1151.0	1382.4	1773.9	2246.7	2289.0	2328.1	2363.5	2399.7
57.5°	771.8	782.2	850.7	974.7	1197.0	1628.0	2314.6	2376.6	2432.8	2491.2	2542.7
60°	564.1	574.6	648.8	774.8	995.7	1406.7	2262.7	2356.5	2446.7	2536.2	2606.1
62.5°	340.7	348.4	413.9	533.9	767.7	1144.4	2031.6	2154.8	2287.4	2394.3	2501.3
65°	212.1	216.4	240.7	306.6	493.1	854.4	1659.9	1794.1	1937.0	2072.7	2184.0
67.5°	173.6	175.3	179.6	193.8	270.8	557.1	1235.5	1354.4	1483.3	1614.6	1738.4
70°	156.1	155.0	155.0	155.9	173.6	299.6	808.8	886.3	993.8	1108.0	1221.1
72.5°	140.9	139.9	138.0	135.3	141.7	182.7	418.1	476.6	553.9	655.4	763.8
75°	126.7	125.2	122.9	119.7	124.0	138.0	200.8	225.3	263.0	317.0	377.6
77.5°	111.8	110.1	108.0	105.5	111.1	107.3	117.7	126.5	140.9	158.2	181.0
80°	95.1	93.5	92.8	91.5	98.2	81.7	83.1	88.6	97.1	106.4	117.0
82.5°	74.5	74.5	77.3	77.8	85.2	58.7	62.2	66.8	71.3	76.3	81.1
85°	49.0	49.4	58.9	62.6	67.3	39.5	46.6	48.1	51.7	54.5	56.6
87.5°	15.4	16.6	36.0	39.9	38.6	22.4	28.6	29.4	31.7	33.7	35.5
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-01-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	336.1	333.9	332.0	331.8	330.5	328.5	329.2	326.2	326.4	324.7	323.0
5°	395.2	393.7	386.7	384.7	379.4	376.1	375.6	368.6	367.6	363.5	359.2
7.5°	480.2	475.6	465.8	461.0	451.9	445.3	442.1	432.7	428.2	417.6	412.9
10°	569.3	563.5	551.3	544.6	535.9	525.1	519.4	505.7	500.4	490.8	479.2
12.5°	651.8	646.1	633.5	628.4	617.0	605.5	599.1	583.7	576.9	561.4	552.2
15°	728.3	722.4	711.5	706.2	694.7	685.3	677.0	661.7	653.6	639.1	627.1
17.5°	802.4	796.2	786.6	781.9	770.7	761.2	752.1	737.8	729.5	715.1	704.3
20°	871.2	866.5	859.7	853.3	842.3	833.5	822.7	810.3	798.3	787.7	777.5
22.5°	931.1	929.3	921.9	919.1	909.5	902.3	892.6	880.5	871.8	858.4	848.9
25°	982.8	982.3	978.7	977.9	971.2	964.1	962.0	951.9	944.0	932.2	922.3
27.5°	1027.3	1027.8	1026.9	1029.4	1027.7	1024.5	1024.7	1021.3	1016.7	1006.8	998.1
30°	1076.7	1073.8	1075.5	1079.0	1080.0	1080.3	1086.2	1088.1	1087.8	1081.2	1077.1
32.5°	1146.5	1139.9	1133.7	1133.1	1136.7	1138.1	1147.9	1153.1	1157.5	1159.1	1159.7
35°	1235.6	1222.1	1209.3	1202.5	1196.5	1198.1	1205.1	1213.4	1223.1	1229.8	1237.7
37.5°	1347.8	1331.4	1308.7	1292.4	1288.3	1279.5	1284.1	1290.7	1300.2	1310.5	1324.4
40°	1483.8	1458.9	1433.3	1411.9	1400.2	1384.0	1383.7	1382.5	1388.4	1398.0	1417.4
42.5°	1614.8	1592.7	1565.6	1543.0	1527.7	1506.0	1501.7	1490.2	1492.8	1501.3	1520.2
45°	1737.3	1719.2	1702.6	1676.5	1663.6	1640.1	1632.7	1619.1	1611.6	1615.4	1634.4
47.5°	1856.1	1844.4	1827.2	1810.3	1800.3	1779.4	1769.8	1760.0	1750.4	1750.1	1769.8
50°	2087.6	2081.4	2060.9	2043.3	2048.0	2022.3	2023.9	1997.7	2009.6	2010.9	2052.4
52.5°	2305.1	2326.5	2341.8	2360.3	2372.2	2374.6	2382.5	2394.3	2408.6	2436.8	2475.3
55°	2429.6	2456.6	2472.3	2486.4	2509.7	2514.7	2527.9	2543.6	2556.0	2587.8	2620.5
57.5°	2577.6	2627.7	2652.1	2674.4	2705.9	2717.9	2739.8	2757.1	2773.2	2810.8	2850.3
60°	2668.9	2729.9	2779.4	2814.9	2854.2	2882.5	2915.8	2942.6	2980.7	3025.8	3084.6
62.5°	2596.3	2685.9	2751.8	2812.6	2866.0	2920.0	2967.9	3017.9	3075.8	3144.0	3235.3
65°	2307.6	2398.7	2511.5	2574.6	2645.3	2728.6	2801.4	2882.5	2961.3	3060.5	3195.5
67.5°	1857.6	1963.7	2090.4	2154.0	2235.3	2328.4	2409.8	2509.0	2601.0	2721.2	2888.2
70°	1339.0	1476.1	1582.6	1649.1	1744.1	1839.9	1918.5	2033.9	2110.1	2233.3	2405.9
72.5°	847.8	956.0	1086.5	1170.4	1254.7	1351.7	1432.1	1531.6	1602.7	1715.0	1871.4
75°	455.9	535.6	650.3	729.8	820.2	903.1	997.3	1064.0	1116.5	1205.3	1332.3
77.5°	213.6	262.1	320.2	381.4	442.7	506.5	568.6	622.6	645.2	695.9	770.9
80°	129.7	145.4	162.3	181.2	206.8	227.5	254.8	274.5	276.0	291.9	314.9
82.5°	86.7	92.4	97.6	102.3	108.9	113.9	119.8	126.7	129.4	133.1	140.6
85°	59.1	62.0	63.0	66.0	65.3	67.0	69.3	71.6	72.9	72.7	76.0
87.5°	36.4	37.7	38.5	39.2	38.6	37.9	39.0	40.2	40.6	39.5	39.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	323.4	321.8	320.2	319.2	318.8	309.5	305.3	302.7	297.1	292.6	288.8
5°	356.7	353.3	350.7	347.6	345.8	322.1	313.5	307.5	297.7	291.8	286.5
7.5°	410.3	401.0	395.5	389.3	384.1	341.4	327.1	317.7	303.9	296.2	290.2
10°	471.3	461.5	452.9	443.3	435.0	367.0	346.1	331.7	313.5	303.4	295.5
12.5°	539.2	529.6	518.7	506.5	496.0	399.5	370.5	349.9	324.9	311.5	300.5
15°	619.5	602.7	589.5	575.4	563.0	438.2	398.8	370.3	337.1	319.0	304.1
17.5°	694.0	676.3	658.4	646.1	631.8	481.8	427.4	391.1	347.2	323.7	304.9
20°	766.9	747.7	732.1	715.5	700.6	527.0	458.0	409.4	353.8	323.9	300.5
22.5°	831.1	819.1	801.8	783.9	768.7	572.1	486.6	425.0	356.2	319.9	292.7
25°	904.1	891.4	870.3	855.0	838.1	618.2	514.6	436.9	354.7	312.3	280.6
27.5°	982.1	968.0	946.4	930.4	910.0	665.9	540.4	445.6	349.4	299.9	264.6
30°	1063.4	1050.6	1029.2	1013.2	992.5	716.6	569.2	451.5	338.8	282.8	246.0
32.5°	1150.7	1139.9	1118.8	1102.0	1080.0	771.5	595.8	453.2	322.9	262.6	226.2
35°	1233.6	1226.2	1208.5	1192.8	1169.8	823.3	624.3	452.3	303.8	240.2	208.2
37.5°	1327.1	1322.6	1313.8	1293.8	1265.8	893.7	658.4	448.6	280.5	218.3	194.4
40°	1426.5	1426.8	1417.3	1403.8	1377.6	979.2	699.0	441.4	255.1	198.9	181.9
42.5°	1531.8	1537.3	1532.7	1523.0	1497.9	1065.2	747.5	432.5	230.4	179.9	169.5
45°	1652.5	1659.2	1666.3	1651.9	1627.6	1178.8	811.3	421.0	203.7	164.2	161.1
47.5°	1791.8	1802.3	1808.6	1808.8	1784.5	1319.6	915.1	414.2	180.1	153.7	157.0
50°	2085.4	2088.8	2103.7	2129.9	2111.2	1645.4	1096.3	410.0	164.0	147.1	154.0
52.5°	2508.6	2545.5	2571.4	2569.7	2544.3	1852.4	1196.1	388.2	154.6	144.6	152.6
55°	2681.0	2727.1	2775.0	2787.7	2767.9	2029.0	1290.5	366.2	149.9	146.4	153.2
57.5°	2910.7	2988.3	3054.1	3081.8	3053.2	2254.9	1414.7	354.7	148.6	151.2	156.5
60°	3179.0	3275.0	3361.5	3411.2	3411.2	2514.7	1543.5	350.1	146.6	158.2	162.1
62.5°	3351.4	3492.3	3622.9	3695.7	3693.7	2695.5	1600.6	333.7	142.2	163.1	169.9
65°	3352.0	3519.6	3686.0	3767.9	3772.2	2673.2	1506.2	294.7	134.1	163.9	177.6
67.5°	3072.7	3251.3	3445.3	3536.8	3558.0	2460.8	1303.9	242.4	120.8	156.8	180.5
70°	2595.0	2769.6	2967.5	3057.5	3095.0	2097.8	1050.2	186.8	103.9	141.4	174.6
72.5°	2044.5	2215.6	2353.4	2419.1	2448.5	1603.5	764.7	141.1	85.2	119.0	158.9
75°	1447.4	1575.9	1649.1	1663.8	1668.4	966.6	464.7	105.0	70.2	92.6	134.2
77.5°	816.9	872.0	866.1	872.5	818.2	373.1	202.3	75.2	57.9	70.4	104.1
80°	319.0	328.8	308.9	302.7	277.7	138.9	89.3	52.4	46.2	53.3	72.9
82.5°	140.6	145.2	140.9	142.0	135.8	71.6	53.4	37.9	35.3	39.0	48.3
85°	77.4	78.9	78.5	80.8	77.4	28.6	25.3	23.3	24.7	26.4	31.1
87.5°	37.7	38.1	36.8	38.8	37.5	14.5	12.6	13.2	14.5	14.8	14.8
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-01-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	286.2	284.8	284.9	284.5	283.9	283.9
5°	283.7	282.2	282.2	281.9	281.1	281.3
7.5°	286.2	283.9	283.0	281.7	280.5	280.5
10°	289.0	284.9	282.4	280.3	278.7	278.7
12.5°	291.1	284.8	280.6	277.8	276.2	276.2
15°	291.8	283.5	277.8	274.5	273.1	273.0
17.5°	289.4	278.7	271.9	268.0	266.2	265.7
20°	282.4	270.0	261.8	257.5	254.9	254.0
22.5°	271.9	257.7	248.0	243.4	240.2	239.8
25°	257.0	241.9	232.3	227.9	226.2	225.7
27.5°	239.8	225.7	217.5	214.7	213.2	212.9
30°	223.3	211.3	205.4	203.2	201.3	201.0
32.5°	208.0	200.4	198.1	195.1	190.5	190.0
35°	197.0	196.4	194.8	188.0	182.4	180.8
37.5°	190.4	196.9	188.7	175.5	171.5	171.1
40°	186.5	191.4	177.4	172.9	173.3	172.9
42.5°	177.6	182.7	177.9	175.7	177.1	177.4
45°	168.9	174.5	180.5	179.0	182.4	182.4
47.5°	163.9	172.3	180.3	180.3	185.2	187.0
50°	158.2	170.6	177.4	179.9	183.8	182.4
52.5°	157.8	167.6	173.4	177.9	179.6	178.0
55°	158.5	165.1	169.3	174.3	176.3	176.6
57.5°	159.1	163.8	166.5	168.9	175.3	175.3
60°	161.0	162.5	164.0	165.3	173.6	173.7
62.5°	163.8	161.2	161.0	162.1	172.7	172.0
65°	168.2	159.4	156.8	158.0	171.8	169.7
67.5°	174.2	156.8	151.6	152.6	171.1	166.5
70°	179.6	152.6	145.4	144.4	164.4	156.3
72.5°	180.1	147.6	136.5	133.9	142.9	135.2
75°	171.2	144.4	126.8	119.0	118.0	117.0
77.5°	154.4	142.4	115.6	103.3	101.3	102.0
80°	129.1	135.2	102.0	87.5	99.0	97.7
82.5°	96.5	119.3	86.7	77.4	77.3	68.3
85°	53.6	93.0	70.5	58.1	40.4	39.2
87.5°	14.9	51.7	49.4	32.8	22.4	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

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