

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642445

Luminaire Tested: GWS-SA6C-830-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

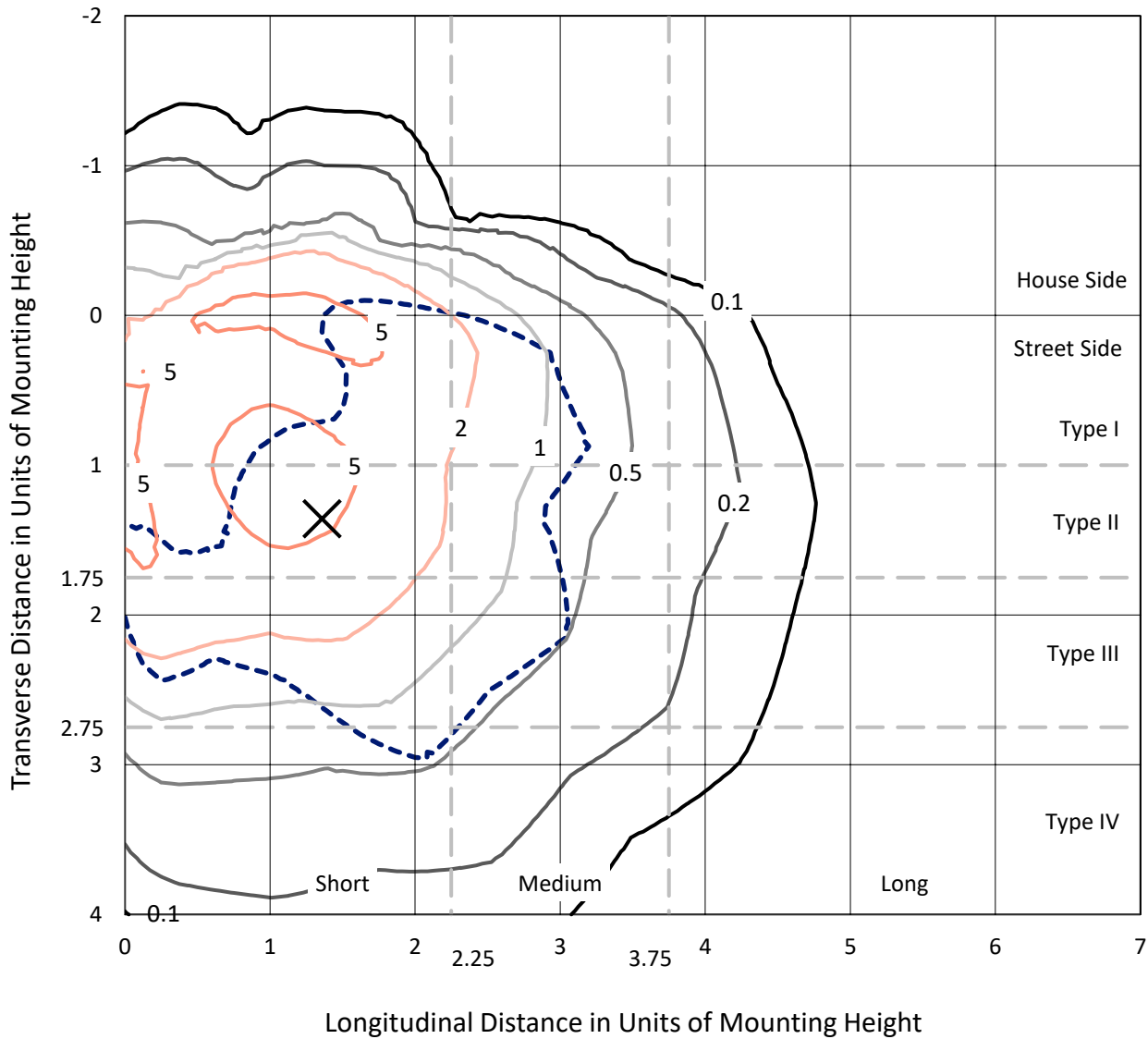
Lumens per Lamp: N/A  
Luminaire Lumens: 13998.4 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P642445  
 CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

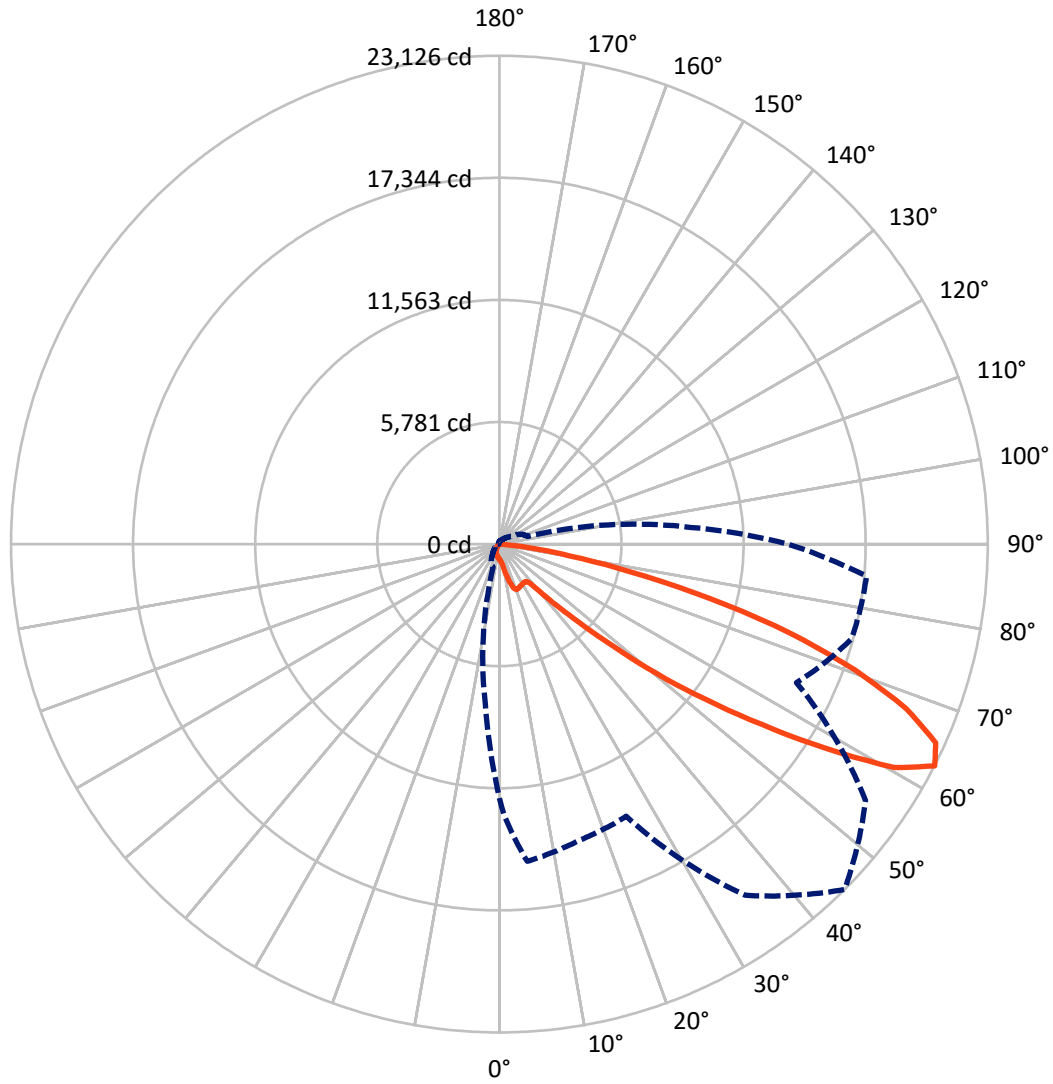
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P642445  
CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P642445  
 CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1727.4	0.0	1727.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	12271.0	0.0	12271.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	13998.4	0.0	13998.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	0.5
10°-20°	244.1	1.7
20°-30°	530.5	3.8
30°-40°	870.8	6.2
40°-50°	1600.8	11.4
50°-60°	3437.8	24.6
60°-70°	4617.5	33.0
70°-80°	2404.4	17.2
80°-90°	228.0	1.6
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°	13998.4	100.0
0°-180°	13998.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642445

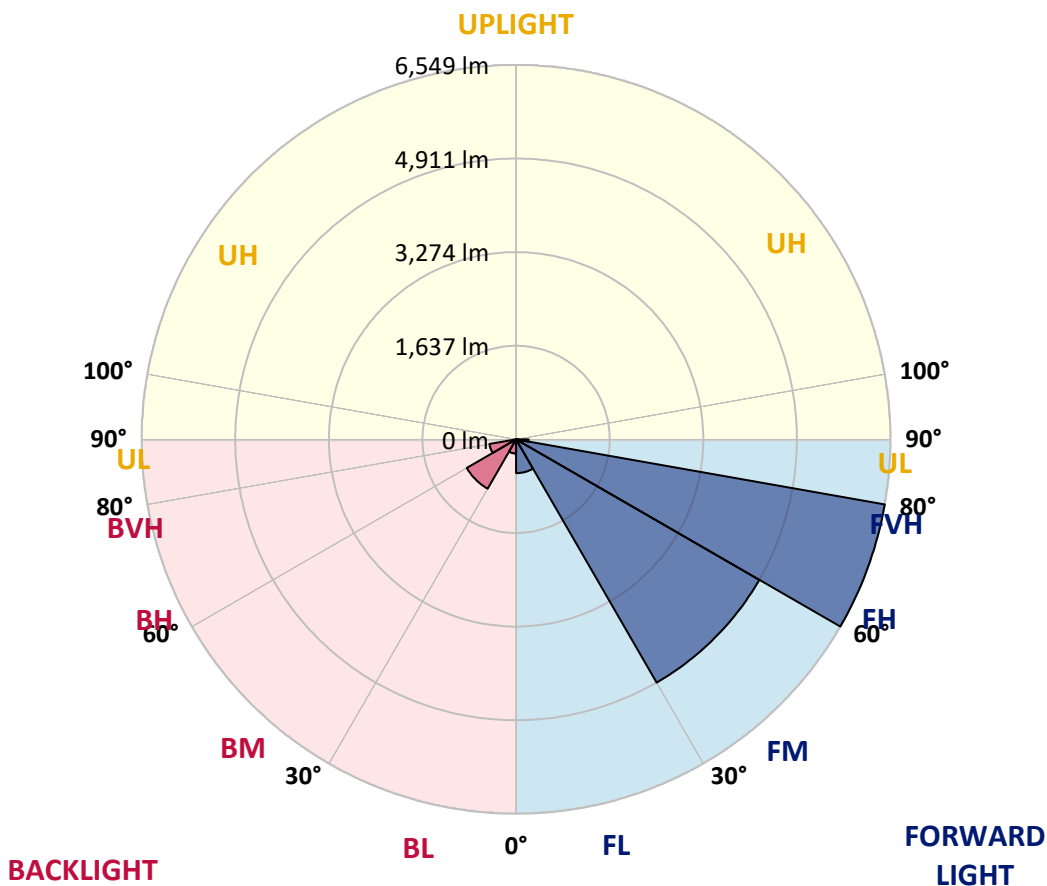
CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.4	4.2			
FM (30°-60°)	4913.3	35.1			
FH (60°-80°)	6548.6	46.8			G3/7500
FVH (80°-90°)	217.8	1.6			G2/225
BL (0°-30°)	247.8	1.8	B1/500		
BM (30°-60°)	996.1	7.1	B1/1000		
BH (60°-80°)	473.3	3.4	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			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





REPORT NUMBER: P642445

CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	742.2	745.4	748.6	760.0	768.0	774.5	776.1	771.3	760.0	748.6	732.5
5°	719.5	722.8	734.1	764.8	795.5	819.8	827.9	823.0	795.5	760.0	722.8
7.5°	717.9	724.4	751.9	816.6	882.9	933.0	945.9	934.6	882.9	811.7	735.7
10°	776.1	787.5	827.9	944.3	1065.6	1154.5	1190.1	1141.6	1059.1	929.7	805.2
12.5°	928.1	947.5	1025.1	1194.9	1382.5	1500.5	1549.0	1489.2	1359.8	1172.3	975.0
15°	1167.4	1196.5	1313.0	1566.8	1788.3	1893.4	1909.6	1875.7	1725.3	1518.3	1253.1
17.5°	1505.4	1547.4	1728.5	1987.2	2147.3	2184.5	2179.6	2144.1	2034.1	1891.8	1641.2
20°	1909.6	1959.7	2137.6	2351.0	2367.2	2323.5	2299.3	2278.3	2241.1	2216.8	2021.2
22.5°	2317.1	2378.5	2564.5	2617.8	2472.3	2346.2	2286.4	2302.5	2357.5	2477.2	2397.9
25°	2722.9	2781.1	2955.8	2811.9	2520.8	2310.6	2234.6	2273.4	2404.4	2663.1	2765.0
27.5°	3196.7	3240.4	3343.8	2944.5	2528.9	2281.5	2207.1	2267.0	2427.0	2779.5	3167.6
30°	3689.9	3715.7	3665.6	2980.0	2501.4	2237.8	2179.6	2267.0	2465.8	2857.1	3470.0
32.5°	4052.1	4056.9	3893.6	2983.3	2486.9	2202.3	2153.8	2257.3	2503.0	2921.8	3762.6
35°	4425.6	4401.3	4111.9	3031.8	2525.7	2215.2	2173.2	2284.7	2561.2	2997.8	4019.7
37.5°	4803.9	4760.3	4356.0	3111.0	2625.9	2355.9	2330.0	2425.4	2655.0	3102.9	4302.7
40°	5192.0	5132.2	4609.9	3230.6	2849.1	2834.5	2923.4	2912.1	2912.1	3237.1	4593.7
42.5°	5665.8	5596.2	4985.0	3568.6	3369.7	3694.7	3937.3	3786.9	3508.8	3546.0	4972.1
45°	6291.5	6231.7	5635.0	4215.4	4186.3	4933.3	5259.9	4962.4	4270.3	4259.0	5604.3
47.5°	7292.4	7281.1	6671.5	4965.6	5185.5	6509.8	7140.4	6568.0	5138.6	5014.1	6800.9
50°	8699.1	8665.2	7963.4	5845.2	6374.0	8463.1	9588.5	8634.5	6188.0	5895.4	8403.2
52.5°	10283.7	10319.3	9772.8	6805.7	7636.8	10636.2	12203.1	11001.7	7328.0	7015.9	10419.6
55°	11776.2	11979.9	11836.0	7929.5	8870.5	13035.8	15074.7	13598.5	8739.6	8482.5	12680.1
57.5°	12943.6	13517.6	14526.6	9562.6	10320.9	15842.8	18281.1	16413.6	10387.2	10864.2	15757.1
60°	13008.3	13768.3	16111.2	12979.2	12186.9	18250.4	21482.7	19164.0	12977.6	14908.2	18168.0
62.5°	12033.3	12848.2	15079.6	14531.5	14219.4	20299.1	23125.5	21169.0	15525.9	17277.0	17453.3
65°	10917.6	11740.6	13928.3	12770.6	13983.3	20211.8	22708.3	21215.9	15757.1	15666.5	16174.3
67.5°	9231.1	9970.1	11950.8	11304.0	12888.6	19236.8	20780.9	19878.7	14516.9	14652.7	14879.1
70°	6737.8	7449.3	9287.7	9320.1	11255.5	17479.1	17855.9	17731.4	13368.9	13512.8	12866.0
72.5°	4867.0	5466.9	7053.1	7643.3	8985.3	14657.6	14397.2	14877.5	11470.6	12034.9	10333.9
75°	3499.1	3948.6	5174.2	6648.9	7122.6	10885.3	10306.4	11522.3	9203.6	10363.0	7769.4
77.5°	1419.7	1578.1	2035.7	4478.9	4681.0	7323.1	6309.3	8369.3	6561.5	6808.9	3765.9
80°	58.2	64.7	84.1	2312.2	3209.6	4120.0	3376.2	4474.1	4333.4	2742.3	889.3
82.5°	6.5	6.5	14.6	666.2	1405.1	2273.4	1591.1	2577.4	2194.2	1162.6	404.2
85°	1.6	1.6	3.2	76.0	329.9	363.8	215.1	790.7	1020.3	475.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	14.6	16.2	0.0
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: P642445

CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	732.5	724.4	714.7	705.0	700.1	687.2	682.3	679.1	675.9	677.5	677.5
5°	708.2	690.4	669.4	648.4	637.1	624.1	617.7	614.4	616.1	622.5	622.5
7.5°	705.0	671.0	625.8	598.3	585.3	575.6	569.2	565.9	567.5	575.6	578.9
10°	758.3	698.5	617.7	570.8	556.2	546.5	540.1	535.2	532.0	538.4	540.1
12.5°	873.1	790.7	656.5	567.5	541.7	528.7	523.9	514.2	509.3	512.6	514.2
15°	1110.8	968.5	734.1	580.5	528.7	514.2	506.1	498.0	489.9	488.3	489.9
17.5°	1421.3	1217.6	852.1	611.2	519.0	501.3	489.9	478.6	467.3	465.7	464.1
20°	1806.1	1523.2	1017.1	659.7	511.0	489.9	473.8	457.6	443.0	438.2	438.2
22.5°	2157.0	1891.8	1228.9	719.5	499.6	473.8	454.4	435.0	418.8	410.7	409.1
25°	2585.5	2283.1	1482.7	789.1	483.5	452.7	431.7	412.3	396.2	386.4	383.2
27.5°	3017.2	2695.4	1770.6	879.6	464.1	431.7	412.3	394.5	376.7	365.4	362.2
30°	3436.0	3140.1	2093.9	992.8	449.5	410.7	394.5	376.7	360.6	342.8	337.9
32.5°	3885.5	3594.5	2456.1	1118.9	438.2	396.2	378.4	362.2	341.2	325.0	316.9
35°	4318.9	4063.4	2855.5	1241.8	426.9	383.2	363.8	347.6	325.0	307.2	295.9
37.5°	4755.4	4540.4	3272.7	1316.2	410.7	365.4	347.6	334.7	308.8	287.8	274.9
40°	5217.9	5033.5	3723.8	1285.5	396.2	346.0	336.3	321.8	292.7	268.4	252.2
42.5°	5725.6	5504.1	4183.0	1167.4	383.2	329.9	320.2	305.6	278.1	249.0	228.0
45°	6364.3	6019.9	4559.8	989.6	389.7	313.7	294.3	291.0	265.2	228.0	202.1
47.5°	7462.2	6812.2	4852.4	874.8	433.3	295.9	273.3	281.3	253.9	207.0	177.9
50°	9142.2	8125.1	5125.7	866.7	499.6	287.8	253.9	274.9	242.5	185.9	156.8
52.5°	10743.0	9459.1	5300.3	937.8	557.8	308.8	234.5	266.8	234.5	171.4	142.3
55°	12274.2	10228.8	4988.3	989.6	612.8	371.9	219.9	253.9	224.8	163.3	137.4
57.5°	13925.1	10571.6	3927.6	1094.7	651.6	425.3	223.1	234.5	211.8	158.5	135.8
60°	14418.3	10133.4	2370.4	1232.1	630.6	441.4	247.4	208.6	194.0	148.8	131.0
62.5°	13651.8	9093.7	1398.7	1122.2	612.8	417.2	283.0	192.4	176.2	135.8	121.3
65°	12505.4	7682.1	912.0	947.5	650.0	371.9	300.8	184.3	160.1	122.9	106.7
67.5°	11195.7	6188.0	638.7	559.5	599.9	334.7	253.9	182.7	143.9	103.5	87.3
70°	9430.0	4634.2	449.5	370.3	499.6	297.5	197.3	177.9	126.1	84.1	67.9
72.5°	7285.9	2900.8	334.7	239.3	355.7	242.5	156.8	150.4	101.9	69.5	51.7
75°	5373.1	1654.1	236.1	173.0	234.5	184.3	116.4	106.7	87.3	66.3	46.9
77.5°	2805.4	827.9	147.1	132.6	134.2	114.8	84.1	77.6	80.8	66.3	43.7
80°	538.4	164.9	88.9	97.0	72.8	72.8	61.4	64.7	71.1	53.4	37.2
82.5°	224.8	35.6	48.5	55.0	45.3	50.1	50.1	51.7	50.1	38.8	27.5
85°	0.0	0.0	21.0	22.6	30.7	30.7	25.9	25.9	25.9	22.6	16.2
87.5°	0.0	0.0	0.0	0.0	1.6	4.9	9.7	11.3	12.9	9.7	6.5
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: P642445

CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	675.9	672.6	677.5	680.7	684.0	684.0	680.7	677.5	672.6	677.5	672.6
5°	624.1	629.0	637.1	640.3	643.5	637.1	633.8	624.1	616.1	617.7	614.4
7.5°	583.7	588.6	598.3	604.7	604.7	601.5	591.8	582.1	569.2	569.2	567.5
10°	546.5	553.0	564.3	572.4	575.6	572.4	562.7	549.8	538.4	538.4	533.6
12.5°	515.8	523.9	536.8	548.1	551.4	548.1	538.4	525.5	512.6	512.6	509.3
15°	489.9	499.6	514.2	527.1	532.0	527.1	515.8	499.6	486.7	488.3	483.5
17.5°	465.7	473.8	493.2	507.7	512.6	507.7	493.2	472.1	459.2	462.4	459.2
20°	438.2	447.9	467.3	483.5	488.3	483.5	467.3	444.7	431.7	431.7	433.3
22.5°	409.1	418.8	438.2	449.5	456.0	451.1	435.0	413.9	401.0	401.0	402.6
25°	383.2	388.1	402.6	413.9	415.6	410.7	397.8	381.6	371.9	376.7	378.4
27.5°	359.0	359.0	365.4	371.9	370.3	365.4	360.6	347.6	346.0	350.9	355.7
30°	333.1	325.0	321.8	316.9	315.3	313.7	318.5	318.5	321.8	328.2	333.1
32.5°	310.5	294.3	279.7	265.2	257.1	263.6	276.5	287.8	299.1	308.8	313.7
35°	284.6	258.7	234.5	215.1	202.1	211.8	232.8	253.9	273.3	286.2	294.3
37.5°	258.7	221.5	192.4	168.2	158.5	166.5	189.2	218.3	247.4	263.6	274.9
40°	231.2	184.3	150.4	131.0	121.3	129.4	152.0	181.1	219.9	240.9	255.5
42.5°	203.7	152.0	121.3	101.9	97.0	101.9	119.7	148.8	190.8	216.7	236.1
45°	176.2	126.1	97.0	82.5	77.6	82.5	97.0	121.3	163.3	192.4	215.1
47.5°	152.0	106.7	80.8	67.9	64.7	69.5	80.8	101.9	137.4	166.5	192.4
50°	132.6	93.8	69.5	58.2	55.0	59.8	69.5	85.7	116.4	142.3	169.8
52.5°	119.7	87.3	61.4	50.1	48.5	51.7	59.8	72.8	98.6	121.3	147.1
55°	116.4	87.3	56.6	45.3	43.7	46.9	53.4	63.1	85.7	105.1	127.7
57.5°	119.7	93.8	53.4	38.8	37.2	40.4	46.9	55.0	74.4	90.5	111.6
60°	119.7	95.4	46.9	30.7	29.1	32.3	38.8	48.5	66.3	79.2	97.0
62.5°	108.3	87.3	38.8	24.3	21.0	24.3	32.3	40.4	58.2	71.1	85.7
65°	93.8	74.4	32.3	17.8	14.6	17.8	25.9	34.0	50.1	61.4	77.6
67.5°	76.0	56.6	24.3	12.9	9.7	12.9	19.4	27.5	42.0	53.4	69.5
70°	56.6	40.4	19.4	11.3	9.7	11.3	17.8	25.9	37.2	48.5	64.7
72.5°	42.0	27.5	16.2	11.3	8.1	11.3	16.2	24.3	35.6	46.9	61.4
75°	35.6	22.6	14.6	9.7	8.1	9.7	14.6	22.6	32.3	43.7	58.2
77.5°	34.0	21.0	12.9	8.1	6.5	8.1	12.9	19.4	29.1	40.4	56.6
80°	29.1	17.8	11.3	6.5	4.9	6.5	11.3	16.2	22.6	30.7	43.7
82.5°	22.6	14.6	8.1	3.2	1.6	3.2	8.1	9.7	14.6	17.8	25.9
85°	14.6	8.1	3.2	0.0	0.0	0.0	3.2	6.5	6.5	8.1	12.9
87.5°	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.9
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: P642445  
 CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	682.3	684.0	687.2	692.1	703.4	713.1	722.8	735.7	742.2	742.2
5°	617.7	619.3	620.9	627.4	643.5	656.5	677.5	703.4	716.3	719.5
7.5°	567.5	570.8	574.0	578.9	595.0	612.8	640.3	688.8	713.1	717.9
10°	538.4	543.3	549.8	559.5	574.0	593.4	640.3	727.6	768.0	776.1
12.5°	515.8	523.9	530.4	541.7	559.5	590.2	684.0	837.6	908.7	928.1
15°	493.2	502.9	512.6	523.9	543.3	601.5	768.0	1034.8	1152.9	1167.4
17.5°	470.5	481.8	494.8	507.7	532.0	629.0	900.6	1308.1	1473.0	1505.4
20°	444.7	459.2	477.0	493.2	520.7	672.6	1085.0	1633.1	1840.1	1909.6
22.5°	417.2	435.0	456.0	477.0	507.7	726.0	1308.1	1982.4	2271.8	2317.1
25°	394.5	412.3	431.7	452.7	486.7	790.7	1578.1	2415.7	2679.3	2722.9
27.5°	373.5	391.3	409.1	428.5	465.7	874.8	1903.1	2876.5	3151.4	3196.7
30°	350.9	371.9	389.7	409.1	446.3	978.2	2278.3	3387.5	3647.8	3689.9
32.5°	331.5	352.5	370.3	389.7	431.7	1091.4	2672.8	3840.2	4052.1	4052.1
35°	315.3	337.9	350.9	376.7	420.4	1164.2	3046.3	4272.0	4432.0	4425.6
37.5°	297.5	325.0	334.7	352.5	405.9	1172.3	3397.2	4727.9	4846.0	4803.9
40°	279.7	308.8	323.4	333.1	389.7	1106.0	3782.0	5146.7	5247.0	5192.0
42.5°	263.6	286.2	307.2	318.5	380.0	989.6	4090.9	5594.6	5714.3	5665.8
45°	247.4	266.8	279.7	300.8	386.4	908.7	4356.0	6116.9	6327.1	6291.5
47.5°	231.2	247.4	255.5	287.8	430.1	871.5	4517.7	6925.4	7321.5	7292.4
50°	213.4	232.8	232.8	284.6	494.8	884.5	4658.4	8096.0	8708.8	8699.1
52.5°	195.6	216.7	213.4	308.8	544.9	944.3	4818.5	9129.3	10194.8	10283.7
55°	177.9	197.3	200.5	357.3	574.0	996.0	4199.2	9564.2	11464.1	11776.2
57.5°	158.5	169.8	208.6	394.5	564.3	1146.4	2876.5	9643.4	12274.2	12943.6
60°	137.4	147.1	236.1	386.4	533.6	1059.1	1811.0	8932.0	12159.4	13008.3
62.5°	119.7	135.8	249.0	341.2	543.3	918.4	1154.5	7612.6	11064.7	12033.3
65°	105.1	131.0	226.4	308.8	549.8	622.5	779.4	6192.9	9995.9	10917.6
67.5°	93.8	145.5	185.9	274.9	472.1	438.2	535.2	4812.0	8404.9	9231.1
70°	85.7	148.8	152.0	236.1	365.4	281.3	352.5	3238.7	5793.5	6737.8
72.5°	77.6	110.0	114.8	189.2	236.1	171.4	228.0	1853.0	4223.5	4867.0
75°	74.4	74.4	79.2	122.9	131.0	124.5	147.1	1106.0	3028.5	3499.1
77.5°	69.5	56.6	50.1	79.2	71.1	88.9	87.3	491.6	1313.0	1419.7
80°	55.0	40.4	34.0	50.1	48.5	59.8	51.7	40.4	59.8	58.2
82.5°	34.0	25.9	24.3	30.7	27.5	30.7	24.3	6.5	6.5	6.5
85°	16.2	14.6	12.9	12.9	14.6	12.9	9.7	3.2	1.6	1.6
87.5°	8.1	8.1	6.5	4.9	6.5	6.5	4.9	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2408-195-9  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 08/07/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: MCGRAW EDISON  
 Catalog Number: **GALN-SB1A-830-U-5WQ**  
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

**Spectral Parameters**

CCT (K): 3050  
 CIE u': 0.2476  
 CIE v': 0.5251  
 Duv: 0.0034  
 CIE x: 0.4383  
 CIE y: 0.4131  
 CIE z: 0.1487  
 Peak Wavelength (nm): 603  
 Dominant Wavelength (nm): 581  
 Purity: 55.55201  
 Rf: 81.5  
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



**Test Conditions**

Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



CCT = 3050K  
 CIE x = 0.4383  
 CIE y = 0.4131  
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.27**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			



REPORT NUMBER: SP1-2408-195-9

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 2.32**

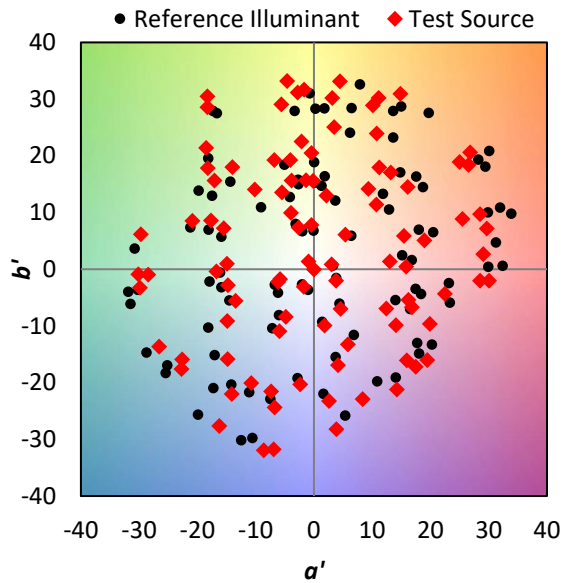
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

**Summary**

$R_f = 81.5$   
 $R_g = 99.2$   
 $CIE R_a = 81.0$   
 $R_9 = 7.1$



**Color Vector Graphics**



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)