

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: P633531

Luminaire Tested: GWS-SA2E-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7018 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

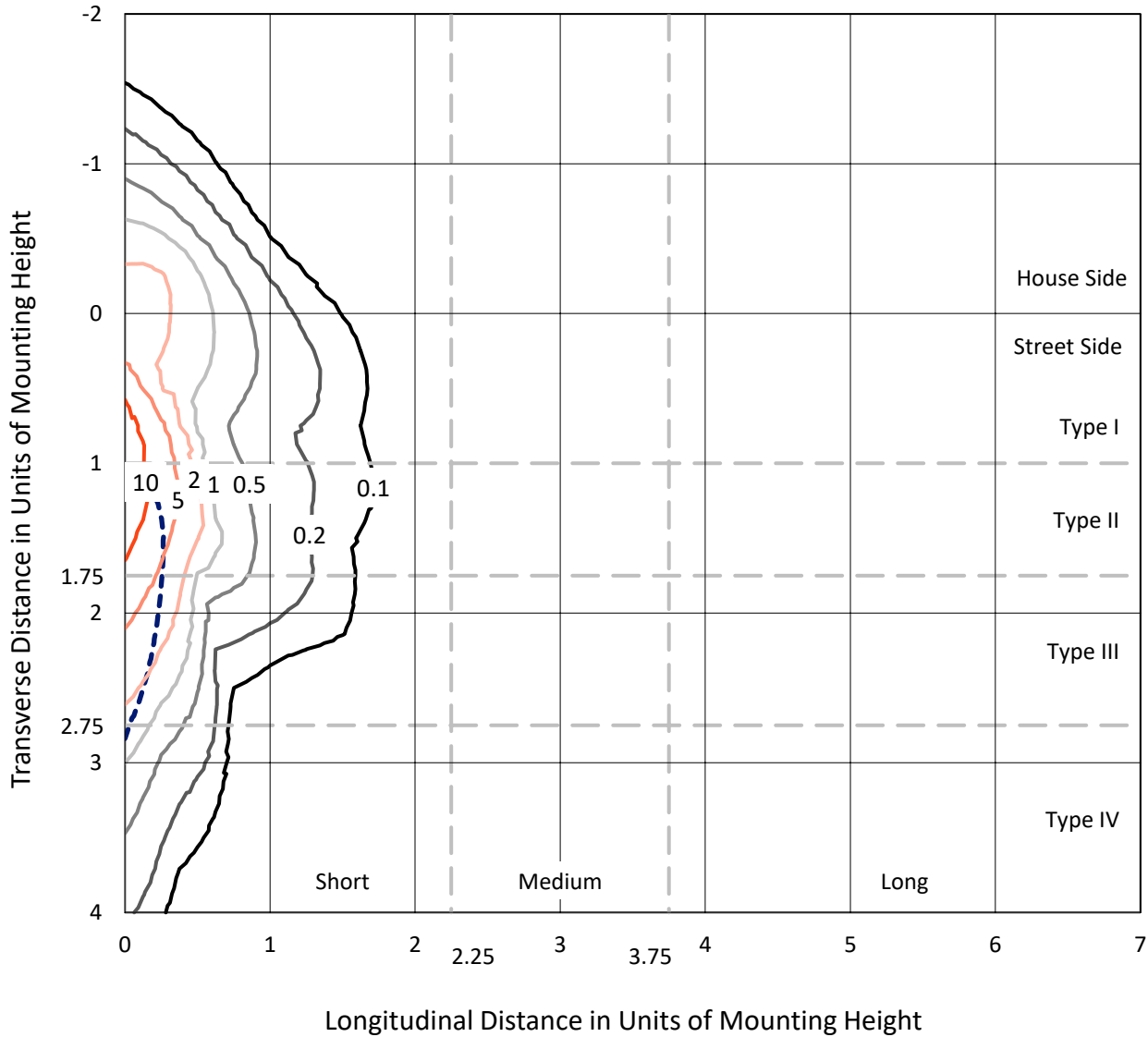
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

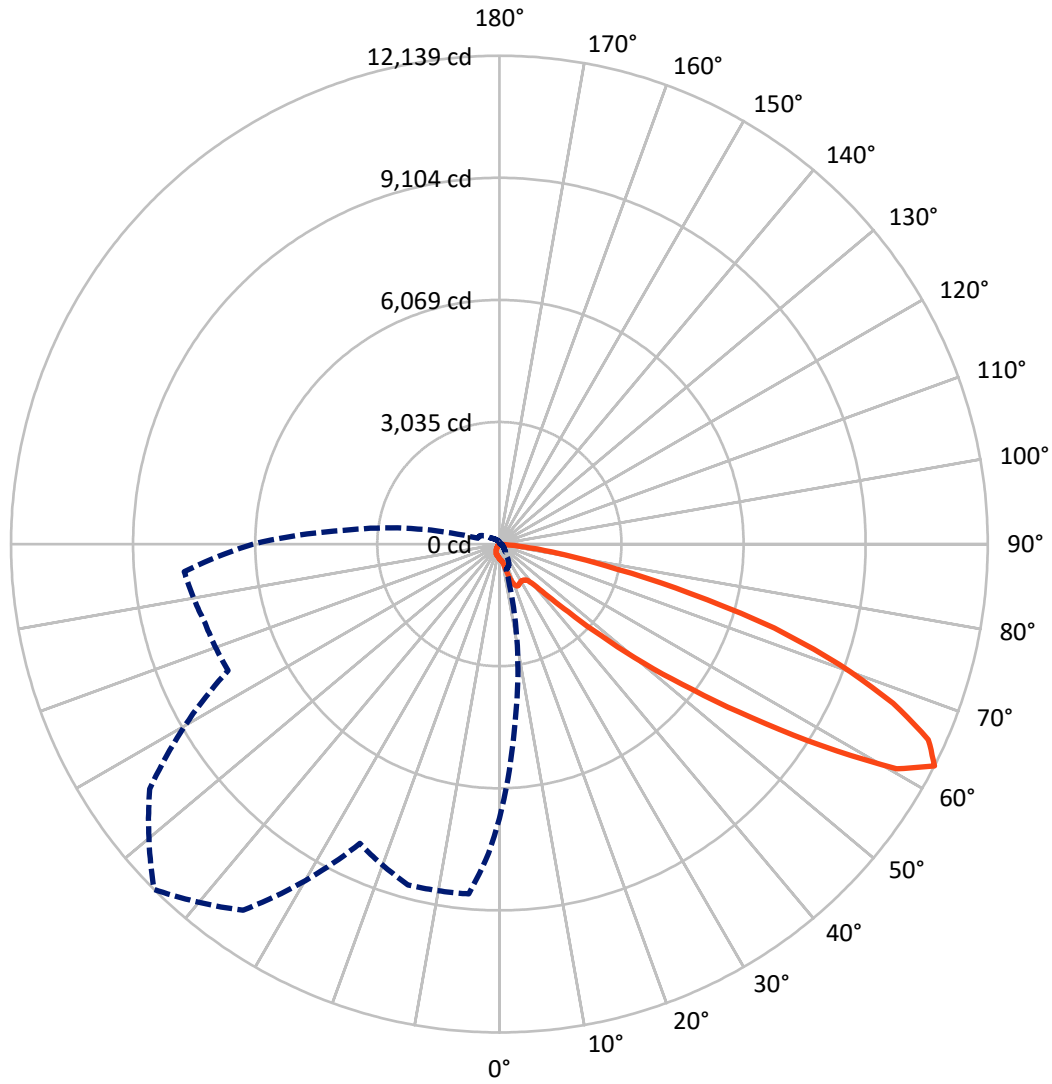
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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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	815.4	0.0	815.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	6202.6	0.0	6202.6
	% Fixture	88.4	0.0	88.4
Total	Lumens	7018.0	0.0	7018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	0.4
10°-20°	107.7	1.5
20°-30°	243.4	3.5
30°-40°	419.3	6.0
40°-50°	790.9	11.3
50°-60°	1765.8	25.2
60°-70°	2361.7	33.7
70°-80°	1184.3	16.9
80°-90°	113.5	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°	7018.0	100.0
0°-180°	7018.0	100.0

Coefficient of Utilization



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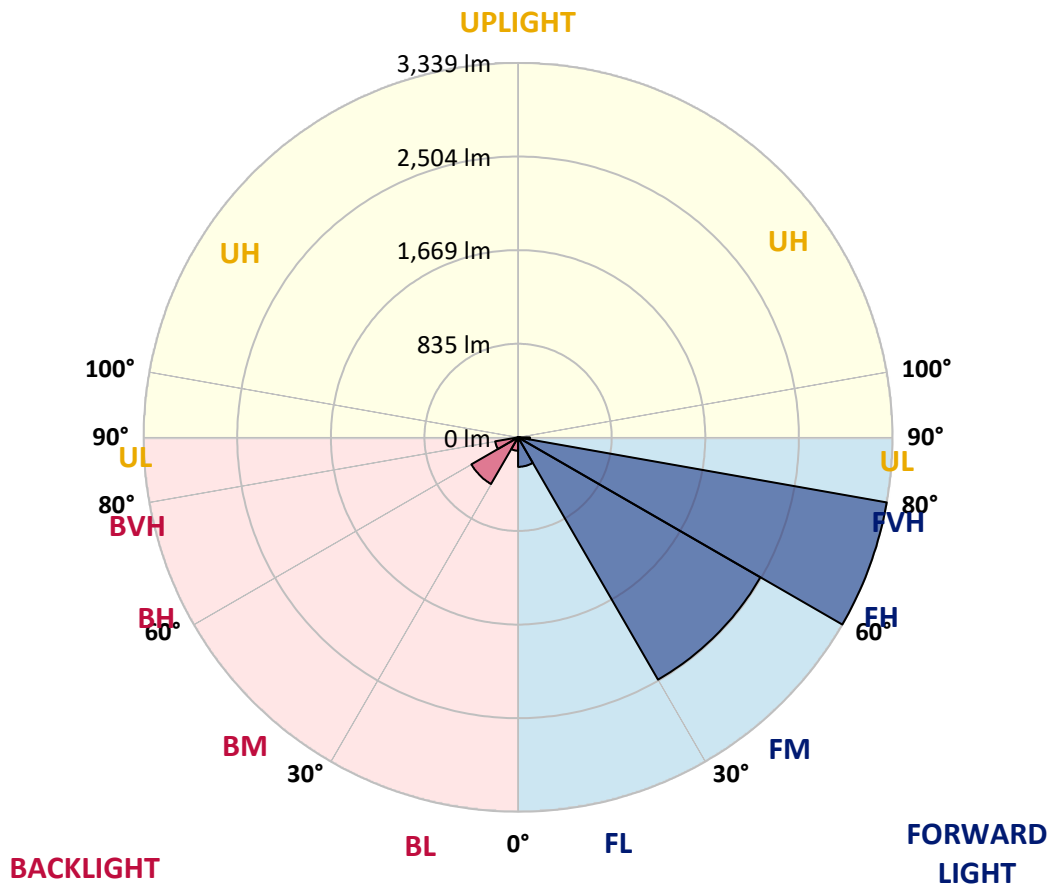
CATALOG NUMBER: GWS-SA2E-830-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.8	3.7			
FM (30°-60°)	2495.1	35.6			
FH (60°-80°)	3338.7	47.6			G2/5000
FVH (80°-90°)	106.0	1.5			G2/225
BL (0°-30°)	119.7	1.7	B1/500		
BM (30°-60°)	480.8	6.9	B1/1000		
BH (60°-80°)	207.4	3.0	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	359.8	359.0	357.3	352.3	348.2	345.7	340.7	340.7	339.9	338.2	334.9
5°	348.2	344.9	341.5	332.4	322.4	316.6	310.0	309.1	309.1	307.5	306.6
7.5°	329.9	326.6	322.4	307.5	298.3	292.5	286.7	285.9	283.4	283.4	283.4
10°	319.9	314.9	308.3	291.7	282.5	277.5	273.4	270.9	269.2	266.7	265.9
12.5°	341.5	332.4	318.3	288.3	275.9	269.2	264.2	262.6	257.6	254.3	251.8
15°	408.8	386.4	358.1	295.8	273.4	263.4	256.8	253.4	249.3	243.5	239.3
17.5°	519.4	486.9	439.6	319.9	270.9	258.4	250.1	244.3	238.5	231.8	226.9
20°	672.3	624.1	567.6	364.0	270.9	252.6	242.6	235.2	226.9	219.4	213.6
22.5°	866.7	818.5	722.1	438.8	274.2	245.1	233.5	223.5	213.6	206.9	200.3
25°	1084.4	1016.3	926.5	529.3	283.4	235.2	222.7	212.7	203.6	195.3	187.8
27.5°	1327.1	1253.1	1133.4	658.1	303.3	225.2	211.1	201.9	193.6	185.3	175.3
30°	1550.6	1506.5	1384.4	812.7	335.7	218.5	201.9	193.6	185.3	174.5	165.4
32.5°	1819.0	1740.9	1640.3	988.9	378.9	211.9	194.4	182.8	176.2	166.2	156.2
35°	2089.1	2022.6	1890.5	1205.7	427.1	205.2	185.3	174.5	168.7	157.1	146.3
37.5°	2367.4	2352.5	2222.0	1445.9	474.5	197.8	174.5	167.9	162.0	148.7	136.3
40°	2641.6	2614.2	2493.7	1720.1	503.6	189.5	165.4	161.2	154.6	139.6	125.5
42.5°	2904.2	2883.5	2766.3	1982.7	499.4	182.0	156.2	151.2	146.3	131.3	113.8
45°	3226.6	3192.6	3044.7	2177.1	457.0	190.3	147.1	138.8	137.9	123.8	102.2
47.5°	3829.9	3717.7	3466.8	2326.7	414.7	211.9	137.1	127.1	133.0	116.3	90.6
50°	4675.0	4542.9	4179.8	2443.0	413.8	240.1	135.4	116.3	128.8	110.5	80.6
52.5°	5524.3	5291.6	4850.4	2505.4	444.6	260.9	150.4	105.5	123.8	104.7	73.1
55°	6337.8	5855.0	5131.2	2299.3	468.7	283.4	177.8	99.7	114.7	98.1	69.0
57.5°	7113.1	6307.9	5253.4	1819.0	549.3	292.5	194.4	102.2	101.4	89.7	65.6
60°	7219.4	6286.3	5006.6	1057.8	605.8	276.7	187.8	113.8	88.9	79.8	59.8
62.5°	6817.3	5868.3	4444.0	659.8	562.6	270.9	167.0	129.6	80.6	70.6	52.4
65°	6206.5	5212.7	3705.3	425.5	426.3	300.8	146.3	127.1	75.6	62.3	44.9
67.5°	5251.7	4362.6	2919.2	285.0	241.0	256.8	128.0	87.3	74.0	53.2	34.9
70°	3833.3	3105.3	1900.4	190.3	143.8	205.2	107.2	62.3	69.8	44.0	24.9
72.5°	2802.0	2086.6	1061.1	124.6	81.4	119.7	78.9	44.9	54.0	32.4	17.5
75°	2016.8	1435.9	605.8	79.8	54.0	65.6	51.5	30.7	34.9	25.8	15.8
77.5°	970.6	699.7	275.1	44.0	36.6	33.2	27.4	19.1	21.6	23.3	14.1
80°	36.6	27.4	20.8	21.6	23.3	15.0	12.5	10.0	12.5	15.8	7.5
82.5°	0.0	0.0	0.0	2.5	3.3	4.2	5.0	4.2	5.0	5.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	337.4	335.7	337.4	339.0	340.7	342.4	339.9	341.5	343.2	339.0	340.7
5°	310.8	310.0	314.9	317.4	320.8	322.4	320.8	320.8	319.9	314.9	314.9
7.5°	287.5	288.3	292.5	298.3	302.5	305.0	303.3	302.5	300.0	292.5	292.5
10°	270.1	270.1	276.7	281.7	287.5	290.0	288.3	285.9	283.4	275.9	275.1
12.5°	255.9	255.9	260.9	269.2	275.9	279.2	278.4	275.1	270.9	263.4	262.6
15°	242.6	241.8	249.3	256.8	265.9	270.1	268.4	265.9	258.4	251.8	250.1
17.5°	229.3	228.5	235.2	245.1	255.1	260.9	260.1	254.3	247.6	239.3	237.7
20°	216.1	214.4	222.7	232.7	242.6	248.5	246.8	241.8	233.5	225.2	223.5
22.5°	202.8	201.9	207.7	216.1	225.2	230.2	229.3	225.2	216.9	209.4	209.4
25°	187.8	187.8	192.0	197.8	204.4	206.9	207.7	206.1	201.1	196.9	196.9
27.5°	175.3	172.8	174.5	176.2	179.5	183.6	183.6	185.3	186.1	184.5	185.3
30°	165.4	161.2	158.7	155.4	153.7	155.4	157.1	162.9	168.7	172.0	173.7
32.5°	153.7	148.7	142.1	133.0	127.1	125.5	130.5	141.3	152.1	159.5	163.7
35°	142.1	135.4	123.0	109.7	102.2	99.7	105.5	118.0	133.8	147.1	152.9
37.5°	130.5	121.3	103.9	88.1	79.8	78.1	83.9	97.2	115.5	133.8	141.3
40°	117.2	106.4	85.6	69.0	62.3	60.7	65.6	78.9	98.1	118.8	130.5
42.5°	103.9	90.6	69.0	54.8	48.2	48.2	54.8	64.8	82.3	104.7	118.8
45°	90.6	76.4	56.5	44.0	39.9	40.7	44.9	54.8	69.0	92.2	105.5
47.5°	78.1	65.6	46.5	36.6	33.2	34.1	39.1	47.4	59.0	79.8	93.9
50°	67.3	55.7	40.7	30.7	28.3	29.9	34.9	42.4	52.4	70.6	82.3
52.5°	60.7	49.9	37.4	26.6	24.9	26.6	31.6	38.2	47.4	62.3	74.0
55°	57.3	49.0	37.4	24.1	21.6	23.3	28.3	34.9	42.4	56.5	66.5
57.5°	56.5	50.7	39.9	21.6	18.3	19.9	24.9	31.6	39.1	51.5	59.8
60°	53.2	48.2	39.1	17.5	14.1	16.6	20.8	27.4	35.7	48.2	55.7
62.5°	46.5	42.4	34.1	14.1	10.8	12.5	17.5	24.1	32.4	44.0	52.4
65°	38.2	34.1	26.6	9.1	6.6	8.3	13.3	20.8	28.3	39.9	47.4
67.5°	28.3	24.1	18.3	5.8	3.3	5.8	10.8	17.5	25.8	35.7	43.2
70°	17.5	14.1	10.0	3.3	2.5	5.0	10.0	16.6	23.3	33.2	40.7
72.5°	10.0	6.6	4.2	1.7	2.5	5.0	10.0	16.6	22.4	31.6	38.2
75°	7.5	4.2	1.7	0.8	1.7	4.2	9.1	15.0	21.6	29.9	36.6
77.5°	5.0	2.5	0.8	0.0	0.8	3.3	8.3	14.1	19.9	28.3	34.9
80°	0.8	0.0	0.0	0.0	0.0	2.5	7.5	12.5	18.3	24.9	30.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	5.8	10.8	15.8	20.8	24.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.3	12.5	15.8	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.3	10.0	11.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	339.9	344.9	344.9	348.2	352.3	359.8	364.0	369.8	373.9	378.1	379.8
5°	314.1	314.9	315.8	317.4	322.4	330.7	338.2	347.3	358.1	366.5	371.4
7.5°	292.5	292.5	292.5	295.0	300.0	305.8	313.3	325.7	338.2	348.2	356.5
10°	274.2	276.7	277.5	281.7	287.5	295.0	303.3	314.1	328.2	341.5	356.5
12.5°	262.6	265.1	269.2	273.4	279.2	287.5	296.7	310.8	339.9	367.3	398.9
15°	251.8	255.1	260.1	265.9	272.6	281.7	291.7	320.8	388.9	440.4	490.3
17.5°	240.1	245.1	251.8	257.6	265.9	275.9	288.3	344.9	478.6	564.2	649.0
20°	225.2	231.8	239.3	248.5	258.4	270.1	288.3	394.7	608.3	731.3	843.4
22.5°	211.1	217.7	226.9	238.5	250.1	261.8	292.5	470.3	775.3	930.7	1072.8
25°	199.4	207.7	216.9	226.9	240.1	253.4	302.5	576.7	976.4	1176.6	1277.2
27.5°	188.6	198.6	207.7	216.1	227.7	242.6	324.9	718.8	1214.0	1417.6	1496.6
30°	177.8	189.5	198.6	206.9	218.5	234.3	359.0	899.9	1478.3	1676.1	1684.4
32.5°	168.7	179.5	190.3	198.6	209.4	227.7	406.3	1111.8	1749.2	1940.3	1862.2
35°	158.7	171.2	181.2	190.3	201.9	221.9	461.2	1340.3	2022.6	2183.0	2039.2
37.5°	148.7	162.9	175.3	182.0	193.6	216.1	501.1	1578.8	2301.8	2419.8	2194.6
40°	139.6	155.4	169.5	176.2	182.0	208.6	506.9	1823.1	2585.1	2653.3	2340.8
42.5°	129.6	147.1	159.5	168.7	173.7	203.6	472.0	2029.2	2822.8	2885.9	2532.0
45°	118.8	139.6	149.6	156.2	166.2	206.9	427.1	2188.8	3094.5	3203.4	2846.9
47.5°	108.0	131.3	139.6	144.6	157.9	226.9	410.5	2295.1	3542.4	3768.4	3377.9
50°	98.1	123.8	133.0	132.1	156.2	252.6	428.8	2375.7	4215.5	4481.4	4105.8
52.5°	87.3	115.5	126.3	123.0	168.7	272.6	465.3	2439.7	4733.2	5317.4	5083.9
55°	78.1	106.4	116.3	115.5	192.0	287.5	493.6	2102.3	4947.6	6094.3	6185.7
57.5°	71.5	96.4	104.7	118.8	206.9	287.5	570.9	1492.4	4951.7	6666.0	7648.2
60°	65.6	87.3	93.1	130.5	201.1	272.6	565.1	914.1	4563.7	6627.0	8426.0
62.5°	60.7	78.9	86.4	133.8	177.8	270.1	510.2	566.7	3892.2	6122.6	7861.8
65°	56.5	72.3	83.1	123.0	161.2	289.2	344.0	407.2	3156.8	5547.5	7214.5
67.5°	52.4	66.5	88.1	100.5	146.3	258.4	248.5	289.2	2477.9	4916.8	6620.3
70°	49.0	63.2	93.1	82.3	128.0	201.9	176.2	219.4	1897.1	4102.5	5783.5
72.5°	46.5	59.0	78.1	64.8	103.9	156.2	123.0	159.5	1239.8	3202.5	4714.9
75°	44.0	54.0	57.3	52.4	77.3	102.2	93.1	107.2	738.7	2340.8	3577.3
77.5°	43.2	50.7	46.5	42.4	52.4	60.7	70.6	72.3	360.6	1170.8	1874.7
80°	38.2	45.7	39.9	34.9	35.7	39.9	52.4	48.2	82.3	297.5	500.2
82.5°	29.9	35.7	33.2	29.1	29.1	29.1	34.9	32.4	26.6	133.8	226.0
85°	20.8	24.9	24.9	23.3	22.4	22.4	21.6	20.8	7.5	8.3	12.5
87.5°	14.1	17.5	18.3	17.5	15.0	13.3	11.6	10.0	3.3	0.0	1.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	385.6	388.1	388.1	384.7	382.2	375.6	368.9	362.3	360.6	359.8
5°	385.6	395.5	400.5	399.7	393.9	383.1	368.9	354.0	349.8	348.2
7.5°	379.8	398.9	413.8	416.3	405.5	386.4	360.6	338.2	332.4	329.9
10°	393.0	430.4	460.4	464.5	452.0	414.7	373.1	334.9	325.7	319.9
12.5°	464.5	526.0	562.6	580.0	555.9	508.6	439.6	371.4	350.7	341.5
15°	609.1	696.4	766.2	766.2	743.7	659.8	572.5	462.0	433.8	408.8
17.5°	794.4	904.1	965.6	958.9	924.9	865.9	761.2	602.5	545.1	519.4
20°	1005.5	1071.1	1085.2	1081.1	1066.1	1032.1	959.8	789.4	712.1	672.3
22.5°	1188.3	1170.8	1150.1	1133.4	1129.3	1139.3	1129.3	998.0	937.3	866.7
25°	1312.1	1213.2	1150.9	1121.0	1135.1	1192.4	1254.8	1205.7	1157.5	1084.4
27.5°	1379.4	1208.2	1118.5	1087.7	1111.8	1193.3	1328.7	1411.8	1362.0	1327.1
30°	1416.0	1204.1	1097.7	1067.8	1104.4	1206.6	1380.2	1604.6	1606.3	1550.6
32.5°	1468.3	1230.7	1101.9	1074.4	1123.5	1246.5	1445.1	1800.7	1848.9	1819.0
35°	1527.3	1271.4	1121.0	1096.0	1156.7	1299.6	1517.3	1998.5	2099.0	2089.1
37.5°	1583.0	1317.1	1165.8	1141.7	1207.4	1345.3	1587.1	2192.9	2332.5	2367.4
40°	1641.2	1381.1	1303.8	1327.1	1363.6	1417.6	1649.5	2361.6	2589.3	2641.6
42.5°	1778.3	1602.9	1720.9	1765.0	1770.0	1658.6	1785.7	2577.7	2841.9	2904.2
45°	2084.1	1997.6	2335.8	2398.2	2365.8	2028.4	2114.0	2889.3	3195.1	3226.6
47.5°	2470.5	2510.4	3177.6	3392.8	3198.4	2464.6	2512.0	3544.9	3841.6	3829.9
50°	2920.8	3109.5	4133.2	4641.0	4175.6	3031.4	2970.7	4350.9	4710.8	4675.0
52.5°	3453.5	3805.8	5281.6	6002.9	5562.5	3668.7	3643.8	5418.7	5638.1	5524.3
55°	4124.1	4478.1	6602.9	7610.8	6984.3	4446.5	4532.1	6656.9	6699.3	6337.8
57.5°	5124.6	5354.8	8160.1	9454.7	8468.4	5503.5	6124.2	8304.7	7797.8	7113.1
60°	6941.1	6482.4	9665.0	11341.0	10047.2	6990.1	8224.1	9281.1	8163.4	7219.4
62.5°	7573.4	7439.6	10607.3	12138.8	11109.2	8210.8	8770.0	8727.6	7689.8	6817.3
65°	6615.3	7201.2	10438.6	11717.5	10972.9	8009.7	7870.1	8116.9	7156.3	6206.5
67.5°	6110.9	6641.1	9799.6	10554.9	10217.6	7327.5	7015.0	6947.7	6007.9	5251.7
70°	5602.4	6127.6	8873.1	8967.0	8809.9	6215.6	5805.1	5353.9	4490.5	3833.3
72.5°	4990.8	5280.0	7587.6	7142.2	6964.3	4881.9	4795.5	4031.9	3366.2	2802.0
75°	4352.6	4268.7	5915.7	4901.9	5034.8	3798.4	4050.1	2960.7	2466.3	2016.8
77.5°	3166.0	3103.7	3962.1	2977.4	3297.3	2487.9	2235.3	1181.6	1125.1	970.6
80°	1766.6	2129.8	2139.7	1668.6	2081.6	1622.0	559.2	39.1	24.9	36.6
82.5°	821.0	915.7	1160.0	773.6	1187.5	803.5	115.5	0.0	0.0	0.0
85°	265.9	388.9	325.7	113.8	287.5	271.7	19.1	0.0	0.0	0.0
87.5°	15.8	32.4	8.3	0.0	0.0	0.0	0.0	0.0	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

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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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /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			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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 [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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

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

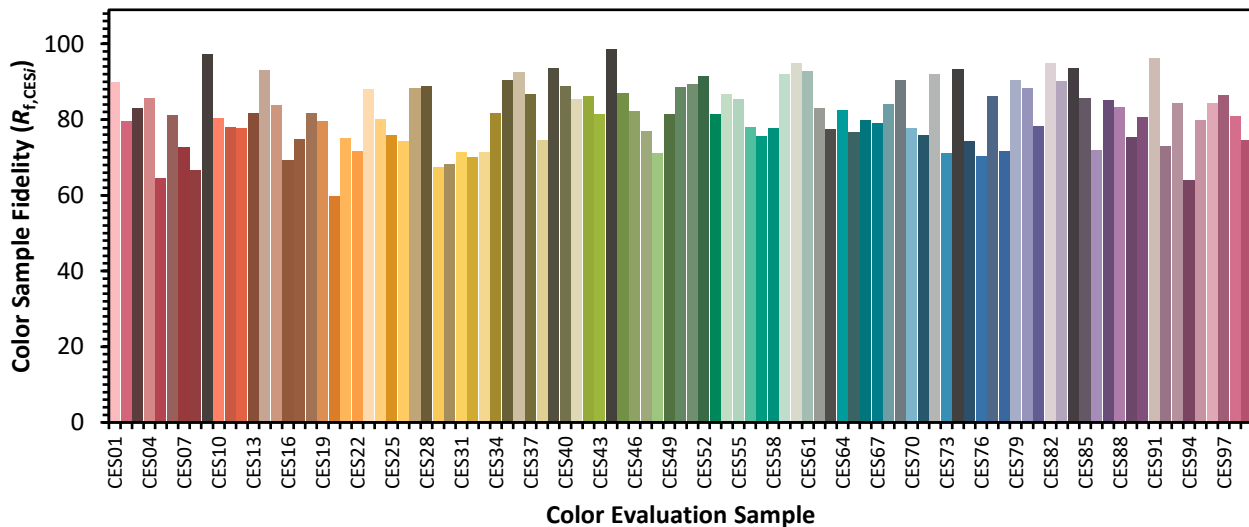


Color Vector Graphics



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)