

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1057650

Luminaire Tested: **GAP-SA2C-722-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057650
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA2C-722-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 2xLight Square PACKAGE 70CRI
2200K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7247.2 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 94.9
Input Voltage (V): 120
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: 28.75 FT

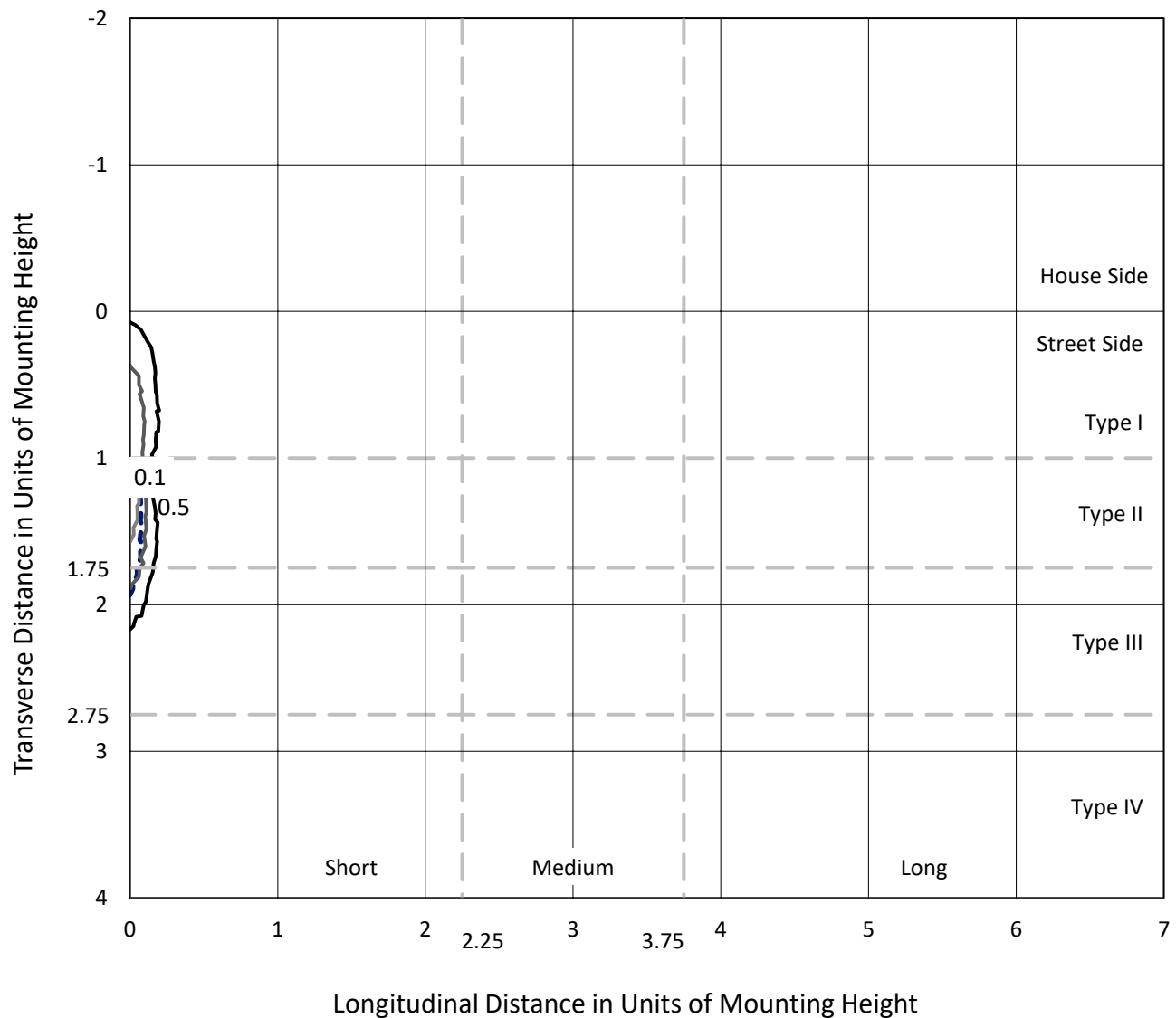


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

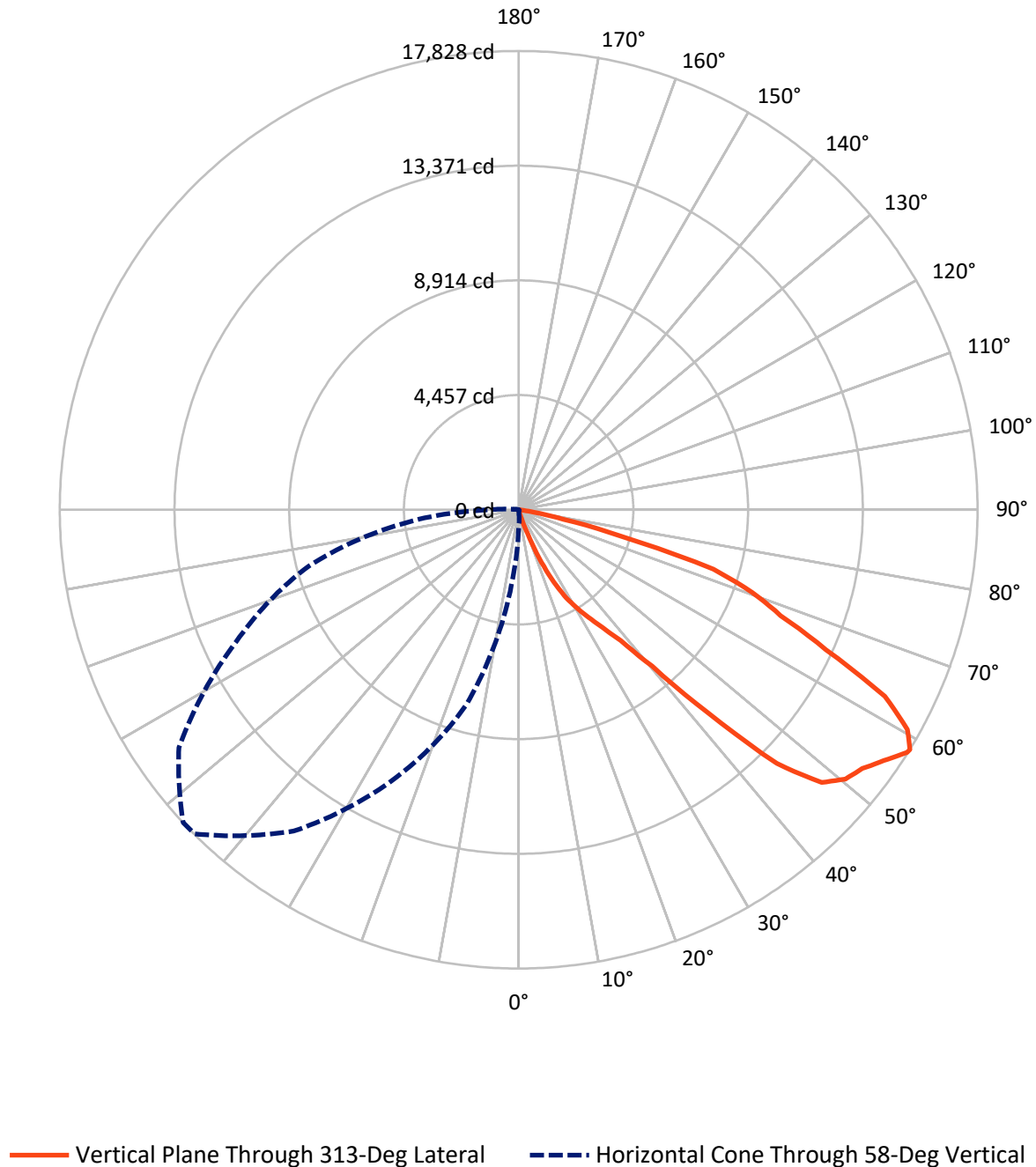


Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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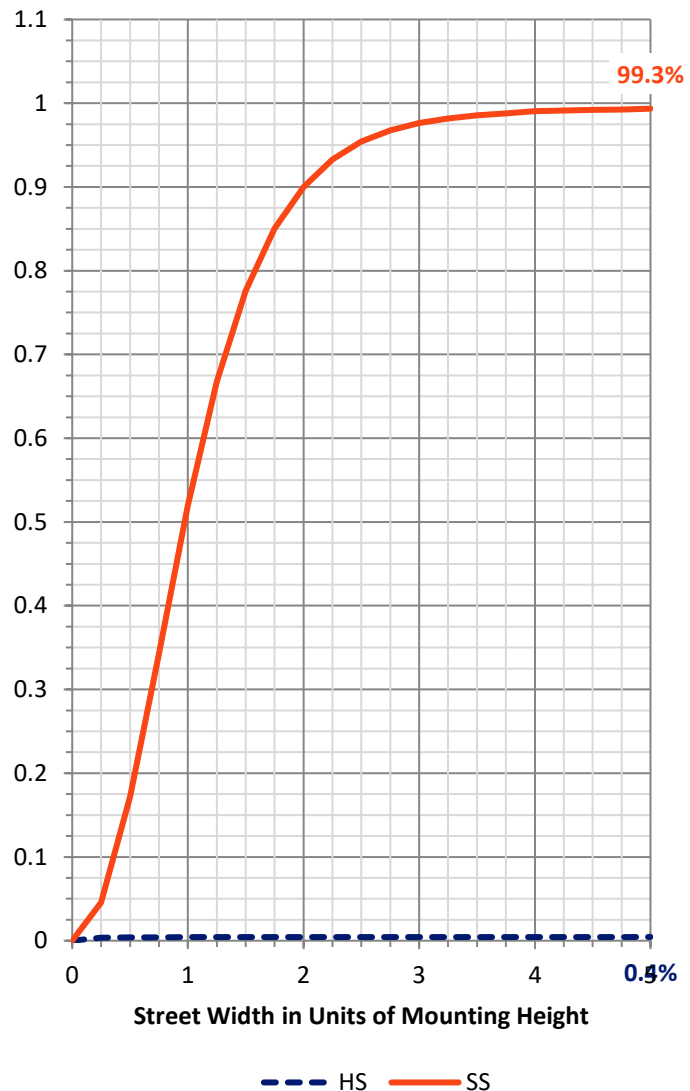
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.4	0.0	32.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7214.7	0.0	7214.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	7247.2	0.0	7247.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	12.6	0.2
20°-30°	183.0	2.5
30°-40°	526.1	7.3
40°-50°	1498.8	20.7
50°-60°	2357.5	32.5
60°-70°	2010.4	27.7
70°-80°	641.3	8.8
80°-90°	16.3	0.2
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°	7247.2	100.0
0°-180°	7247.2	100.0



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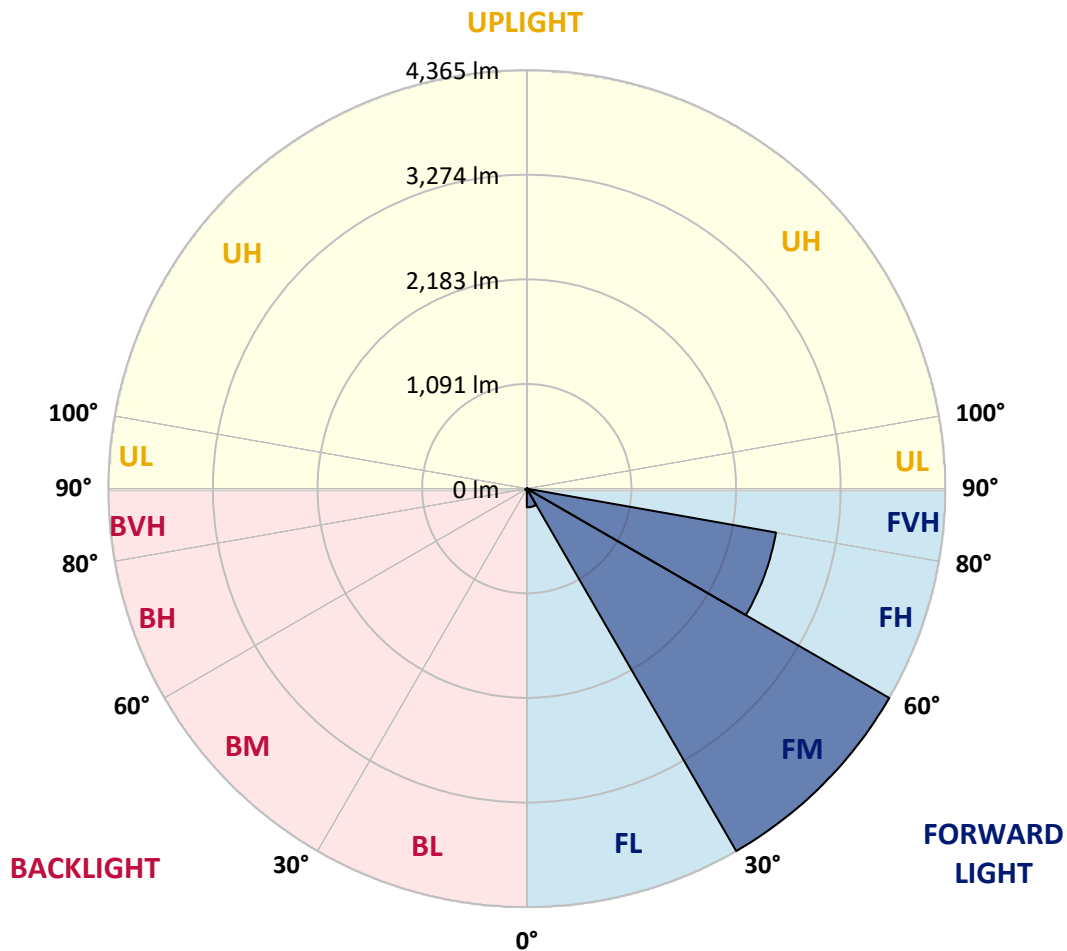
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.4	2.7			
FM	(30°-60°)	4365.1	60.2			
FH	(60°-80°)	2638.9	36.4			G2/5000
FVH	(80°-90°)	15.4	0.2			G1/100
BL	(0°-30°)	1.3	0.0	B0/110		
BM	(30°-60°)	17.3	0.2	B0/220		
BH	(60°-80°)	12.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	26.1	27.6	29.0	27.6	24.7	18.9	18.9	14.5	10.2	5.8	4.4
5°	29.0	29.0	29.0	27.6	24.7	18.9	17.4	13.1	8.7	5.8	2.9
7.5°	31.9	31.9	30.5	27.6	23.2	18.9	17.4	13.1	8.7	4.4	0.0
10°	34.8	34.8	31.9	29.0	23.2	17.4	16.0	11.6	7.3	2.9	0.0
12.5°	39.2	37.7	33.4	29.0	23.2	16.0	16.0	11.6	5.8	1.5	0.0
15°	45.0	40.6	34.8	29.0	21.8	16.0	14.5	10.2	4.4	0.0	0.0
17.5°	49.3	45.0	36.3	27.6	20.3	14.5	13.1	8.7	4.4	0.0	0.0
20°	53.7	46.4	36.3	27.6	20.3	13.1	11.6	7.3	1.5	0.0	0.0
22.5°	60.9	49.3	36.3	27.6	18.9	11.6	10.2	5.8	0.0	0.0	0.0
25°	75.4	52.2	36.3	26.1	17.4	10.2	8.7	2.9	0.0	0.0	0.0
27.5°	92.8	56.6	36.3	24.7	16.0	8.7	7.3	1.5	0.0	0.0	0.0
30°	111.7	60.9	36.3	24.7	14.5	7.3	5.8	0.0	0.0	0.0	0.0
32.5°	132.0	66.7	36.3	23.2	13.1	5.8	4.4	0.0	0.0	0.0	0.0
35°	169.7	75.4	36.3	23.2	11.6	4.4	2.9	0.0	0.0	0.0	0.0
37.5°	187.1	87.0	36.3	21.8	11.6	2.9	1.5	0.0	0.0	0.0	0.0
40°	194.4	84.1	34.8	21.8	10.2	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	210.3	78.3	36.3	20.3	10.2	1.5	0.0	0.0	0.0	0.0	0.0
45°	256.7	78.3	39.2	20.3	8.7	2.9	0.0	0.0	0.0	0.0	0.0
47.5°	445.3	81.2	37.7	20.3	8.7	2.9	0.0	0.0	0.0	0.0	0.0
50°	732.4	95.7	36.3	21.8	10.2	1.5	0.0	0.0	0.0	0.0	0.0
52.5°	849.9	116.0	36.3	23.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	815.1	142.1	36.3	24.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	741.1	134.9	39.2	29.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	713.6	134.9	39.2	29.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	559.8	137.8	45.0	31.9	21.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	416.3	140.7	50.8	36.3	21.8	1.5	0.0	0.0	0.0	0.0	0.0
65°	308.9	146.5	53.7	42.1	20.3	2.9	0.0	0.0	0.0	0.0	0.0
67.5°	246.6	150.8	58.0	46.4	23.2	5.8	1.5	0.0	0.0	0.0	0.0
70°	211.8	145.0	62.4	47.9	21.8	8.7	4.4	0.0	0.0	0.0	0.0
72.5°	188.5	136.3	71.1	46.4	23.2	8.7	4.4	0.0	0.0	0.0	0.0
75°	169.7	124.7	81.2	45.0	23.2	8.7	5.8	0.0	0.0	0.0	0.0
77.5°	127.6	108.8	79.8	43.5	21.8	8.7	5.8	0.0	0.0	0.0	0.0
80°	63.8	72.5	69.6	39.2	17.4	7.3	5.8	1.5	0.0	0.0	0.0
82.5°	26.1	27.6	34.8	29.0	14.5	5.8	5.8	1.5	0.0	0.0	0.0
85°	2.9	5.8	10.2	11.6	10.2	5.8	5.8	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	5.8	8.7	7.3	4.4	2.9	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°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	1.5	2.9	2.9	2.9	4.4	4.4	5.8	7.3	7.3	7.3	8.7
5°	0.0	0.0	1.5	1.5	2.9	4.4	5.8	8.7	10.2	10.2	11.6
7.5°	0.0	0.0	0.0	1.5	2.9	4.4	5.8	8.7	11.6	13.1	14.5
10°	0.0	0.0	0.0	0.0	1.5	2.9	5.8	10.2	14.5	17.4	20.3
12.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.8	11.6	17.4	21.8	24.7
15°	0.0	0.0	0.0	0.0	0.0	1.5	5.8	11.6	21.8	26.1	31.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	13.1	24.7	31.9	43.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.1	27.6	39.2	65.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.1	30.5	50.8	120.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	13.1	34.8	75.4	200.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.5	42.1	105.9	293.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.5	52.2	143.6	409.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	14.5	60.9	181.3	556.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	72.5	240.8	699.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	89.9	265.4	819.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	85.6	288.6	957.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	78.3	322.0	1173.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	78.3	426.4	1652.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	95.7	664.3	2525.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	123.3	1019.6	3595.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	149.4	1254.6	4216.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	179.8	1256.0	4195.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	200.2	1124.0	3786.9
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	198.7	1087.8	3673.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	14.5	174.0	944.2	3206.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	23.2	152.3	677.3	2658.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	11.6	26.1	139.2	491.7	1995.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.5	30.5	133.4	348.1	1388.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	17.4	34.8	123.3	249.5	913.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.4	43.5	116.0	195.8	551.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.4	55.1	101.5	159.5	295.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.4	59.5	84.1	116.0	179.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	16.0	53.7	60.9	50.8	60.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.7	31.9	13.1	13.1	20.3
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):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	10.2	10.2	10.2	10.2	11.6	11.6	16.0	20.3	24.7	26.1
5°	13.1	14.5	16.0	16.0	16.0	17.4	20.3	23.2	27.6	29.0
7.5°	18.9	20.3	23.2	23.2	23.2	24.7	26.1	29.0	31.9	31.9
10°	24.7	29.0	30.5	31.9	33.4	33.4	33.4	34.8	36.3	34.8
12.5°	33.4	39.2	46.4	47.9	47.9	47.9	46.4	43.5	40.6	39.2
15°	46.4	63.8	87.0	95.7	91.4	81.2	71.1	55.1	47.9	45.0
17.5°	85.6	174.0	316.2	349.5	342.3	294.4	172.6	84.1	56.6	49.3
20°	230.6	562.7	928.2	1016.7	1063.1	880.4	509.1	195.8	69.6	53.7
22.5°	497.5	1169.0	1811.5	2040.7	2055.2	1653.4	990.6	397.4	100.1	60.9
25°	800.6	1869.5	2745.6	2967.5	2971.8	2548.3	1583.8	644.0	152.3	75.4
27.5°	1227.0	2620.8	3601.3	3785.5	3782.6	3353.3	2288.7	983.4	213.2	92.8
30°	1663.6	3206.8	4165.5	4394.6	4416.4	3903.0	2877.5	1385.1	278.5	111.7
32.5°	2095.8	3640.4	4680.4	4984.9	4966.1	4388.8	3288.0	1714.3	390.2	132.0
35°	2436.6	4010.3	5250.4	5624.6	5639.1	4922.6	3652.0	2033.4	485.9	169.7
37.5°	2728.2	4487.5	6008.9	6441.1	6460.0	5586.8	4033.5	2346.7	568.5	187.1
40°	3087.8	5270.7	7264.9	7998.8	8001.7	6825.5	4719.5	2697.7	680.2	194.4
42.5°	3895.7	6948.7	9719.0	10773.4	10864.8	9395.5	6278.7	3459.1	855.7	210.3
45°	5511.4	9160.6	12848.9	14062.8	14178.9	12593.6	8951.7	5217.0	1241.5	256.7
47.5°	7433.2	11083.8	14667.6	15836.6	15913.5	14106.4	10741.5	7250.4	2113.2	445.3
50°	8615.2	11795.9	15336.3	16451.6	16464.7	14603.8	11302.8	8306.3	3011.0	732.4
52.5°	8982.2	11887.3	15362.4	16711.2	16748.9	14545.8	11379.6	8519.5	3385.2	849.9
55°	8832.8	11833.6	15637.9	17207.3	17247.9	14782.2	11327.4	8286.0	3209.7	815.1
57.5°	8491.9	12042.5	16090.5	17796.1	17796.1	15218.8	11520.3	7894.4	2780.4	741.1
58°	8441.2	12094.7	16115.1	17828.0	17815.0	15246.3	11600.1	7837.8	2686.1	713.6
60°	8371.6	12255.7	15932.4	17356.6	17318.9	15052.0	11745.1	7787.1	2229.2	559.8
62.5°	8270.0	11893.1	14600.9	15970.1	15872.9	13690.1	11328.9	7489.7	1663.6	416.3
65°	7749.4	10554.4	12171.6	13120.1	13089.6	11262.2	9750.9	6709.4	1198.0	308.9
67.5°	6532.5	8262.8	9832.1	10975.0	10982.2	9193.9	7626.1	5362.0	815.1	246.6
70°	4594.8	6094.5	8358.5	9630.5	9688.5	7711.6	5649.2	3573.7	538.1	211.8
72.5°	2744.1	4603.5	6950.2	7916.1	7885.7	6399.1	4191.6	2130.6	327.8	188.5
75°	1330.0	2751.4	3512.8	4074.1	4050.9	3201.0	2233.6	1044.3	239.3	169.7
77.5°	361.1	845.6	1360.5	1769.5	1817.3	1282.1	732.4	279.9	149.4	127.6
80°	121.8	261.1	443.8	603.4	619.3	554.0	275.6	98.6	65.3	63.8
82.5°	46.4	63.8	81.2	72.5	72.5	75.4	59.5	42.1	30.5	26.1
85°	0.0	0.0	1.5	2.9	2.9	4.4	4.4	4.4	2.9	2.9
87.5°	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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

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 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics



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

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)