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: METALUX

Report Number: P1444670

Luminaire Tested: EHBR1-30-UNV-TA-L930-UPL30

Issue Date: 5/1/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444670
	REPORT IS A COMBINATION OF REPORTS P1444339 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-TA-L930-UPL30
Description:	Elevate Round Highbay at, 30000 lumens, 3000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29830.9 lumens
Efficiency:	N/A
Efficacy:	164.1 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 0.77 / 0.88
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	181.8
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:	24 FT

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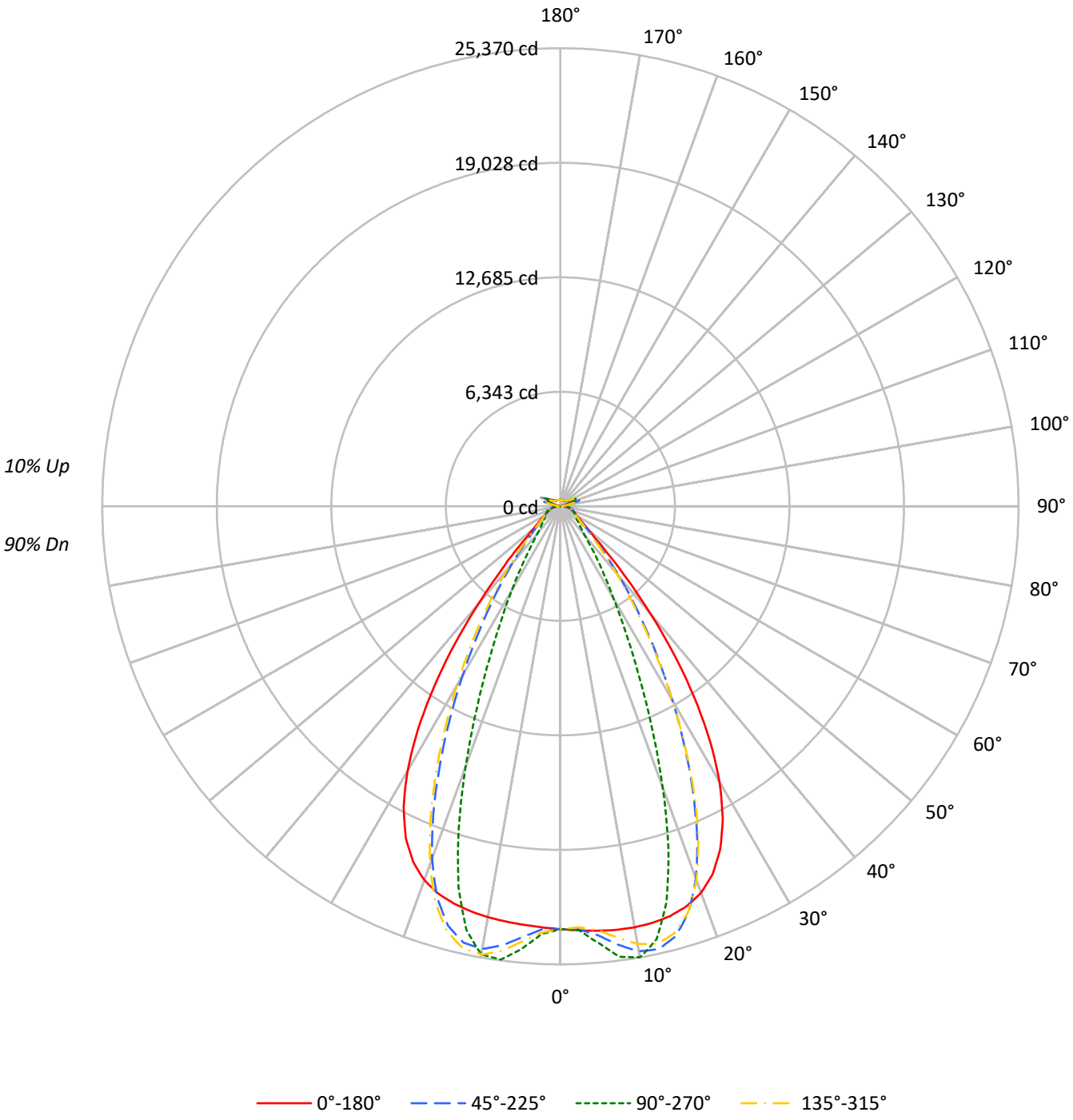
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	110	106	103	100	106	103	100	98	97	95	93	92	90	88	87	85	84	82
2	103	97	92	88	99	94	90	86	89	86	83	85	82	79	81	78	76	74
3	96	89	83	78	93	87	81	77	82	78	74	79	75	72	75	72	70	67
4	91	82	75	70	88	80	74	69	76	71	67	73	69	66	70	67	64	62
5	85	76	69	64	83	74	68	63	71	66	62	68	64	60	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	54	53
7	76	65	59	54	74	64	58	53	62	56	52	60	55	51	58	54	51	49
8	72	61	54	50	70	60	54	49	58	53	49	56	51	48	55	50	47	45
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	52	47	44	42
10	65	54	48	43	63	53	47	43	52	46	42	50	45	42	49	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	109975	109975	109975	109975
5°	110508	113731	108961	115220
10°	111431	119408	108758	118618
15°	111977	108242	108569	103884
20°	110819	80637	107193	74608
25°	104895	50998	101428	46272
30°	91634	30646	88084	28008
35°	70522	19230	66466	17035
40°	44611	12063	40816	11335
45°	22993	9398	22613	9243
50°	13481	8359	13067	8229
55°	10328	7908	9945	7837
60°	8739	8079	8367	7974
65°	8208	8437	7893	8149
70°	8019	8834	7619	8502
75°	8574	9369	8110	8955
80°	8873	10373	8045	9468
85°	8356	10012	6753	8572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 35189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2308.0	7.7
10°-20°	6492.5	21.8
20°-30°	7394.4	24.8
30°-40°	5314.8	17.8
40°-50°	2451.2	8.2
50°-60°	1173.0	3.9
60°-70°	855.9	2.9
70°-80°	650.2	2.2
80°-90°	300.6	1.0
90°-100°	81.1	0.3
100°-110°	480.7	1.6
110°-120°	888.3	3.0
120°-130°	539.7	1.8
130°-140°	342.1	1.1
140°-150°	249.8	0.8
150°-160°	171.6	0.6
160°-170°	102.2	0.3
170°-180°	34.7	0.1
0°-30°	16194.9	54.3
0°-40°	21509.7	72.1
0°-60°	25133.9	84.3
0°-90°	26940.5	90.3
90°-120°	1450.2	4.9
90°-150°	2581.8	8.7
90°-180°	2890.0	9.7
0°-180°	29830.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	23418	23418	23418	23418	23418	
5°	23595	24283	23265	24601	23595	2255
15°	23492	22709	22777	21794	23492	6619
25°	20948	10184	20255	9240	20948	9496
35°	12943	3529	12199	3126	12943	7944
45°	3720	1521	3659	1496	3720	3164
55°	1396	1069	1344	1059	1396	1288
65°	857	881	824	851	857	856
75°	604	660	571	631	604	628
85°	287	344	232	295	287	270
90°	85	105	29	34	85	52
95°	37	42	37	42	37	36
105°	172	223	115	223	172	228
115°	773	941	810	941	773	714
125°	576	610	653	610	576	525
135°	446	400	481	403	446	348
145°	391	383	416	387	391	247
155°	360	364	385	367	360	168
165°	355	356	369	358	355	101
175°	361	365	368	366	361	34
180°	366	366	366	366	366	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23508.0	23506.1	23505.8	23504.1	23503.7	23503.7	23502.9	23500.9	23499.8	23497.1	23494.0
5°	23595.2	23594.2	23594.8	23595.0	23593.4	23589.7	23583.9	23577.0	23568.0	23559.8	23552.3
7.5°	23662.7	23664.3	23666.4	23666.0	23660.8	23652.3	23640.5	23633.9	23637.8	23650.6	23679.8
10°	*23675.0*	*23685.1*	*23689.0*	*23687.7*	*23677.5*	*23670.2*	*23673.0*	*23697.8*	*23747.2*	*23813.1*	*23903.2*
12.5°	23627.0	23639.3	23638.9	23634.8	23624.9	23635.0	23670.9	23744.8	23850.6	23980.6	24133.0
15°	23492.2	23508.2	23503.7	23498.4	23491.8	23524.8	23596.7	23724.9	23888.4	24071.6	24259.2
17.5°	23230.6	23249.8	23240.5	23234.4	23228.9	23290.8	23414.1	23602.0	23807.9	24015.2	24193.0
20°	22776.6	22789.5	22767.3	22756.8	22765.6	22887.0	23068.7	23308.5	23525.6	23721.6	23843.1
22.5°	22035.8	22051.9	22010.0	22005.1	22056.9	22243.4	22473.2	22741.3	22945.3	23100.7	23147.5
25°	20947.5	20963.2	20913.4	20943.2	21031.2	21285.3	21559.0	21845.8	22019.9	22134.9	22103.2
27.5°	19478.4	19492.9	19445.6	19506.4	19645.5	19979.3	20301.5	20612.7	20767.7	20848.4	20746.2
30°	17625.7	17655.6	17599.8	17684.7	17897.0	18330.4	18699.5	19048.4	19203.1	19264.4	19105.4
32.5°	15425.2	15467.8	15406.3	15532.5	15828.8	16349.3	16768.7	17158.5	17329.5	17399.6	17220.0
35°	12943.3	13004.4	12933.8	13123.2	13488.6	14068.3	14532.7	14967.9	15170.5	15269.8	15088.9
37.5°	10313.9	10372.1	10333.8	10586.6	10987.8	11588.7	12062.6	12532.2	12761.0	12910.0	12767.4
40°	7732.3	7785.6	7814.5	8103.4	8480.9	9047.2	9502.4	9967.0	10223.0	10410.0	10322.0
42.5°	5457.5	5511.2	5609.5	5888.2	6203.0	6671.8	7061.7	7478.9	7723.3	7922.9	7889.0
45°	3720.2	3782.6	3905.7	4134.0	4361.7	4698.0	4984.3	5308.7	5508.4	5691.2	5693.4
47.5°	2606.9	2650.8	2760.7	2916.6	3065.1	3486.0	3503.3	3662.8	3797.1	3933.7	3951.4
50°	2009.2	2035.5	2093.8	2180.7	2264.8	2374.1	2474.2	2589.7	2672.3	2747.2	2765.1
52.5°	1651.4	1668.1	1697.8	1744.9	1793.7	1853.1	1906.7	1970.1	2015.0	2055.1	2063.5
55°	1395.7	1409.6	1453.8	1462.7	1518.5	1529.3	1553.1	1591.7	1617.8	1641.8	1647.8
57.5°	1202.8	1212.8	1222.2	1242.2	1259.4	1284.4	1304.5	1332.3	1348.7	1366.1	1367.5
60°	1050.6	1057.8	1064.5	1078.4	1090.1	1107.5	1121.3	1140.2	1152.0	1165.0	1166.5
62.5°	937.3	942.5	946.9	956.1	964.4	977.8	988.8	1004.5	1015.5	1025.6	1027.8
65°	856.7	860.6	863.4	870.4	877.7	889.0	899.0	911.8	919.9	927.6	929.3
67.5°	785.4	789.0	792.0	798.3	803.4	811.8	818.5	828.1	834.3	840.4	840.6
70°	703.6	707.0	709.3	715.1	719.2	726.5	731.9	740.6	746.9	753.7	755.4
72.5°	647.1	649.0	652.0	657.5	663.1	670.9	678.1	687.2	694.6	701.8	704.8
75°	604.0	606.3	608.3	612.9	616.8	623.4	628.8	637.1	643.7	651.2	655.0
77.5°	541.8	544.6	546.3	550.9	554.3	560.6	564.5	571.9	577.4	584.3	587.7
80°	466.8	469.3	470.5	474.8	477.6	483.4	487.3	494.4	498.9	505.8	509.9
82.5°	383.5	386.0	386.7	390.8	392.2	397.0	399.9	407.2	412.7	421.7	428.0
85°	287.2	288.1	289.4	288.4	294.3	294.6	301.2	302.4	311.1	313.3	323.2
87.5°	175.6	178.2	179.5	183.5	185.2	189.2	190.4	194.7	197.0	201.8	204.2
90°	84.6	89.3	91.3	96.8	98.7	103.7	105.4	110.8	112.8	118.4	121.6
92.5°	32.6	34.8	36.9	39.3	41.5	44.2	46.7	48.9	51.2	53.8	58.3
95°	37.2	39.7	42.2	44.8	47.3	49.8	52.3	54.9	57.4	59.9	67.2
97.5°	46.8	49.0	51.2	53.4	55.5	57.7	59.9	62.1	64.3	66.4	75.1
100°	61.0	62.8	64.6	66.5	68.4	70.1	72.0	73.9	75.7	77.5	93.7
102.5°	101.1	107.6	114.2	120.7	127.3	133.8	140.4	146.9	153.5	160.0	194.4
105°	171.8	189.5	207.4	225.1	242.8	260.7	278.4	296.0	313.8	331.5	387.6
107.5°	293.9	326.7	359.6	392.5	425.3	458.1	491.0	523.8	556.7	589.4	646.3
110°	543.5	569.8	596.4	622.7	649.2	675.7	702.1	728.3	754.9	781.2	822.7

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	733.0	744.9	756.8	768.9	780.8	792.7	804.6	816.6	828.5	840.4	870.1
115°	773.2	777.4	781.7	785.9	790.2	794.3	798.5	802.6	806.7	810.8	830.9
117.5°	750.7	750.0	749.4	748.6	747.8	747.0	746.3	745.4	744.6	743.7	755.1
120°	699.8	696.2	692.7	688.9	685.3	681.5	677.9	674.1	670.3	666.4	671.3
122.5°	635.6	631.3	627.1	622.5	618.2	613.6	609.3	604.5	600.1	595.5	597.4
125°	576.3	571.8	567.7	563.1	558.7	554.0	549.5	544.8	540.3	535.6	536.6
127.5°	524.8	521.8	518.7	515.3	512.1	508.9	505.6	502.2	498.9	495.4	495.7
130°	491.4	488.8	485.9	483.0	480.1	477.0	474.0	471.0	467.9	464.7	465.2
132.5°	464.2	462.3	460.4	458.3	456.2	453.9	451.7	449.2	447.1	444.8	445.3
135°	446.1	444.2	442.5	440.6	438.6	436.4	434.3	432.0	429.9	427.7	428.5
137.5°	430.7	429.2	427.6	425.6	423.8	421.7	419.9	417.7	415.7	413.6	414.4
140°	416.6	415.2	413.8	412.0	410.4	408.6	406.7	404.8	403.0	401.0	402.0
142.5°	400.8	399.6	398.5	397.2	395.9	394.3	392.9	391.3	389.9	388.2	389.5
145°	390.6	389.6	388.7	387.6	386.4	385.1	383.8	382.4	381.2	379.8	381.1
147.5°	381.5	380.7	380.0	379.2	378.3	377.0	376.0	374.8	373.8	372.7	374.1
150°	373.7	372.9	372.3	371.5	370.5	369.5	368.4	367.5	366.4	365.3	366.7
152.5°	365.4	364.6	363.9	363.1	362.2	361.1	360.4	359.3	358.3	357.3	358.5
155°	360.5	359.7	358.9	358.1	357.3	356.4	355.4	354.5	353.6	352.5	353.6
157.5°	357.3	356.6	356.1	355.3	354.9	354.1	353.4	352.6	351.9	351.2	351.9
160°	356.1	355.5	354.9	354.1	353.5	352.8	352.2	351.4	350.8	350.0	350.7
162.5°	354.9	354.2	353.6	352.9	352.4	351.6	351.0	350.4	349.8	349.0	349.7
165°	355.1	354.8	354.3	353.9	353.5	353.1	352.6	352.1	351.6	351.1	351.6
167.5°	358.3	357.7	357.3	356.6	356.1	355.7	355.0	354.4	354.0	353.2	353.7
170°	359.4	359.0	358.8	358.5	358.1	357.8	357.5	357.2	356.8	356.5	356.9
172.5°	361.4	361.0	360.8	360.6	360.3	360.1	359.8	359.6	359.4	359.0	359.7
175°	361.3	361.0	360.9	360.7	360.6	360.5	360.4	360.2	360.2	359.9	360.3
177.5°	363.8	363.7	363.7	363.6	363.6	363.5	363.4	363.2	363.1	363.1	363.4
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23491.8	23488.9	23485.0	23480.1	23475.8	23470.8	23459.2	23455.7	23459.6	23462.2	23467.5
5°	23547.6	23549.2	23549.9	23560.5	23569.7	23592.7	23772.9	23844.5	23899.9	23935.0	23988.4
7.5°	23715.9	23770.1	23823.6	23895.6	23957.7	24041.7	24356.9	24491.1	24586.4	24655.1	24739.5
10°	*24001.1*	*24119.3*	*24230.1*	*24359.9*	*24471.6*	*24599.5*	*24892.8*	*25023.5*	*25106.1*	*25166.1*	*25222.3*
12.5°	24288.4	24452.3	24600.4	24745.0	24865.8	24976.6	25079.8	25125.6	25129.4	25131.4	25101.6
15°	24438.0	24594.7	24725.3	24820.8	24891.8	24923.2	24745.6	24652.4	24534.6	24437.5	24277.9
17.5°	24343.5	24437.5	24493.9	24488.4	24459.1	24360.8	23857.6	23580.8	23306.1	23058.4	22733.8
20°	23923.7	23916.6	23867.5	23728.5	23561.1	23300.7	22438.0	21940.3	21459.0	21036.3	20523.6
22.5°	23142.7	23019.8	22848.5	22548.9	22216.0	21761.2	20524.8	19792.6	19122.7	18530.9	17867.9
25°	22011.1	21758.2	21442.1	20966.5	20449.3	19785.9	18262.0	17351.4	16546.9	15849.4	15084.3
27.5°	20562.8	20181.9	19718.8	19060.5	18359.7	17509.7	15820.3	14815.3	13951.8	13203.8	12389.6
30°	18848.0	18352.7	17754.8	16937.7	16092.5	15128.4	13414.9	12397.0	11523.0	10753.6	9938.7
32.5°	16910.3	16330.2	15629.5	14712.4	13798.3	12807.2	11152.4	10167.1	9332.1	8591.8	7854.4
35°	14773.2	14151.0	13409.7	12474.3	11565.7	10602.1	9083.7	8195.3	7457.9	6803.6	6208.1
37.5°	12480.7	11869.8	11165.2	10283.7	9441.1	8567.9	7257.7	6513.2	5894.4	5351.4	4891.6
40°	10097.1	9562.5	8952.8	8190.7	7471.7	6744.4	5669.0	5078.0	4589.7	4175.5	3831.0
42.5°	7742.7	7328.5	6860.9	6258.6	5708.4	5154.6	4326.9	3889.0	3527.4	3229.2	2985.7
45°	5617.6	5340.5	5026.9	4608.2	4227.5	3841.3	3252.1	2944.4	2708.9	2516.6	2354.0
47.5°	3927.0	3766.2	3756.4	3369.5	3090.3	2854.1	2474.6	2280.2	2136.0	2019.5	1916.6
50°	2757.8	2680.0	2583.4	2445.4	2315.8	2182.3	1951.1	1833.6	1749.0	1678.5	1613.4
52.5°	2061.7	2021.3	1969.9	1896.6	1826.4	1751.3	1604.9	1530.2	1503.6	1437.9	1386.3
55°	1646.7	1623.6	1594.2	1551.2	1508.5	1491.4	1366.0	1310.5	1275.3	1249.4	1221.7
57.5°	1367.8	1350.6	1333.2	1304.0	1279.3	1249.4	1182.8	1154.3	1133.4	1118.1	1099.0
60°	1166.8	1156.4	1146.7	1129.6	1116.2	1100.1	1057.8	1041.7	1030.9	1021.6	1009.4
62.5°	1029.8	1024.5	1019.5	1010.4	1003.6	994.8	965.9	958.2	952.7	948.1	940.7
65°	931.0	927.1	924.3	918.2	914.8	909.8	884.9	879.7	876.3	874.7	870.4
67.5°	841.1	837.1	835.3	831.0	829.6	826.4	806.0	803.2	802.0	802.6	801.0
70°	757.1	755.4	756.3	755.6	757.6	758.1	745.8	745.7	747.0	749.6	749.9
72.5°	706.8	706.8	707.7	708.1	710.0	710.9	700.6	700.1	700.7	702.6	702.7
75°	658.8	659.6	662.2	663.1	665.2	665.7	652.1	650.6	650.7	652.5	651.9
77.5°	592.5	595.4	600.4	602.9	607.1	607.8	592.7	590.9	591.0	592.8	591.2
80°	517.3	522.7	530.7	536.1	542.5	545.1	529.5	525.8	522.3	521.8	518.6
82.5°	437.4	444.1	453.5	458.4	465.3	466.9	440.8	435.8	432.8	433.1	430.2
85°	333.9	338.9	347.5	350.3	354.6	354.2	324.4	311.5	314.9	309.7	313.9
87.5°	209.4	212.4	217.8	218.4	220.5	220.0	190.0	184.1	182.3	182.4	180.3
90°	128.1	131.8	138.1	139.8	144.6	145.9	123.2	122.1	118.5	118.3	113.8
92.5°	63.0	67.4	72.0	76.5	81.1	85.6	87.4	91.1	86.6	81.7	77.4
95°	74.6	81.9	89.3	96.7	104.1	111.4	118.8	126.2	119.3	112.4	105.5
97.5°	83.9	92.6	101.2	109.9	118.6	127.3	136.1	144.8	137.4	129.8	122.4
100°	110.0	126.3	142.6	158.8	175.0	191.3	207.5	223.9	209.6	195.2	180.9
102.5°	228.8	263.3	297.8	332.3	366.8	401.3	435.9	470.5	437.7	404.8	372.1
105°	443.5	499.4	555.4	611.1	667.1	723.0	779.2	835.2	782.8	730.3	677.9
107.5°	702.9	759.8	816.4	873.0	929.8	986.6	1043.7	1100.5	1049.3	998.0	946.9
110°	864.1	905.5	946.9	988.2	1029.5	1071.1	1112.9	1154.4	1123.7	1093.0	1062.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	899.6	929.3	958.9	988.5	1017.9	1047.5	1077.9	1107.7	1092.3	1076.7	1061.4
115°	850.8	870.8	890.7	910.7	930.7	950.5	971.3	991.6	986.7	981.7	976.9
117.5°	766.2	777.4	788.7	799.7	810.8	821.9	834.4	845.7	846.5	847.4	848.3
120°	676.1	680.8	685.5	690.3	694.8	699.5	705.7	710.7	714.9	718.9	723.2
122.5°	599.3	601.1	602.9	604.6	606.4	608.2	611.7	613.8	616.7	619.6	622.5
125°	537.5	538.4	539.3	540.1	540.9	541.8	544.7	545.8	546.1	546.3	546.4
127.5°	495.9	496.1	496.3	496.5	496.5	496.7	498.9	499.5	497.9	496.1	494.3
130°	465.7	466.2	466.5	467.0	467.5	468.0	470.6	471.6	468.6	465.4	462.3
132.5°	445.8	446.5	447.0	447.7	448.2	448.8	451.8	453.0	449.5	445.7	442.3
135°	429.1	429.9	430.7	431.4	432.1	433.0	436.4	437.7	434.4	430.9	427.5
137.5°	415.0	415.8	416.5	417.5	418.2	419.0	422.7	424.1	421.5	418.7	416.0
140°	403.0	403.8	404.8	405.8	406.8	407.9	411.8	413.5	411.4	409.2	407.1
142.5°	390.7	392.1	393.4	394.9	396.2	397.7	402.3	404.5	403.0	401.2	399.7
145°	382.6	384.3	385.8	387.4	389.0	390.7	395.8	398.3	397.3	396.3	395.2
147.5°	375.2	376.8	378.2	379.6	381.1	382.9	388.2	390.6	390.1	389.3	388.7
150°	368.0	369.6	370.9	372.5	374.1	375.8	381.7	384.3	383.8	383.3	382.7
152.5°	359.8	361.1	362.4	363.8	365.2	366.8	373.7	376.3	376.0	375.3	374.9
155°	354.6	355.6	356.5	357.7	358.8	360.1	367.4	369.9	369.6	369.4	369.1
157.5°	352.5	353.2	353.9	354.7	355.5	356.4	363.8	366.3	366.0	365.7	365.5
160°	351.1	351.7	352.2	352.8	353.3	354.0	361.6	363.9	363.8	363.4	363.1
162.5°	350.4	351.3	351.9	352.7	353.4	354.3	362.0	364.7	364.1	363.7	363.2
165°	352.1	352.4	352.9	353.4	353.9	354.4	361.5	363.7	363.5	363.1	362.9
167.5°	354.1	354.7	355.2	355.7	356.3	356.9	363.6	365.6	365.5	365.1	364.9
170°	357.2	357.7	358.1	358.6	359.0	359.7	365.1	366.9	366.6	366.1	365.7
172.5°	360.1	360.7	361.2	361.7	362.2	362.8	367.5	369.1	368.8	368.5	368.0
175°	360.6	361.0	361.4	361.9	362.3	362.8	366.4	367.7	367.6	367.4	367.2
177.5°	363.8	363.9	364.3	364.7	365.0	365.3	367.6	368.4	368.3	368.3	368.2
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23468.8	23477.1	23478.2	23487.8	23487.1	23498.5	23496.8	23506.1	23500.6	23508.3	23501.8
5°	24020.0	24070.0	24096.1	24144.9	24160.3	24204.0	24216.4	24256.2	24257.8	24289.4	24282.2
7.5°	24799.3	24872.9	24916.7	24977.0	25007.6	25057.9	25080.0	25117.1	25129.1	25158.6	25160.9
10°	25264.7	25300.4	25325.5	25342.3	25357.6	25364.9	25373.2	25371.0	25373.2	25369.9	25377.2
12.5°	25081.6	25029.4	24994.9	24929.4	24891.5	24819.2	24783.7	24714.1	24688.9	24629.2	24620.6
15°	24154.6	23972.5	23843.9	23656.8	23539.2	23355.1	23247.4	23081.3	23005.5	22873.5	22838.8
17.5°	22464.9	22127.0	21865.3	21529.8	21297.0	20983.4	20786.2	20526.6	20384.5	20175.1	20102.7
20°	20096.2	19596.1	19203.7	18736.3	18401.8	17985.0	17718.3	17381.8	17186.3	16929.2	16825.1
22.5°	17315.1	16692.4	16202.4	15650.2	15246.7	14782.2	14462.6	14098.4	13885.9	13606.6	13482.9
25°	14448.6	13762.0	13217.2	12635.5	12209.1	11743.4	11423.7	11066.1	10846.1	10580.9	10458.1
27.5°	11707.1	11012.1	10485.6	9944.7	9553.5	9133.5	8845.0	8532.7	8337.5	8111.1	7995.6
30°	9287.8	8674.8	8226.7	7777.9	7452.5	7111.3	6871.6	6612.8	6441.5	6247.7	6137.5
32.5°	7316.7	6843.4	6492.7	6136.5	5870.2	5585.0	5377.8	5149.5	4994.9	4821.9	4722.1
35°	5794.7	5427.0	5147.2	4854.0	4625.2	4382.4	4199.9	4002.7	3864.1	3715.1	3628.9
37.5°	4578.4	4286.0	4055.8	3812.2	3624.4	3423.1	3355.4	3129.2	2985.5	2866.5	2784.2
40°	3593.2	3360.7	3170.1	2983.9	2830.6	2678.1	2555.6	2434.8	2342.0	2256.9	2198.1
42.5°	2806.0	2637.5	2498.4	2362.0	2250.1	2139.0	2050.2	1967.0	1904.5	1848.9	1811.0
45°	2230.6	2114.8	2018.1	1922.0	1843.1	1768.9	1709.2	1656.1	1615.7	1582.3	1558.6
47.5°	1832.5	1753.2	1685.0	1620.2	1566.6	1518.0	1478.0	1464.9	1421.5	1392.3	1381.2
50°	1557.4	1509.5	1457.6	1409.9	1374.0	1338.5	1312.6	1287.2	1270.9	1257.4	1253.4
52.5°	1352.0	1315.4	1286.6	1256.3	1232.7	1207.4	1189.5	1172.6	1163.6	1156.6	1155.7
55°	1199.4	1173.8	1154.6	1134.3	1120.3	1105.4	1096.1	1087.2	1083.3	1079.7	1080.0
57.5°	1083.9	1066.8	1054.3	1041.1	1033.5	1026.4	1024.1	1021.8	1023.0	1023.6	1025.5
60°	999.7	988.5	980.8	973.2	970.0	967.7	969.5	971.4	975.5	978.8	981.8
62.5°	935.2	928.8	925.0	921.0	920.6	920.8	924.3	927.6	932.8	936.6	939.4
65°	868.8	865.1	864.0	861.3	862.6	863.4	867.6	870.2	875.3	878.3	882.0
67.5°	801.7	800.9	801.6	801.6	804.0	805.9	810.0	812.9	817.3	820.0	823.0
70°	752.1	752.5	754.3	754.6	757.2	758.5	762.0	764.0	767.8	770.2	773.8
72.5°	704.0	703.2	703.6	702.5	703.4	703.0	704.9	705.9	709.2	711.0	715.3
75°	652.7	650.5	650.0	647.7	647.8	646.1	646.9	646.8	648.9	649.8	652.9
77.5°	590.7	587.1	585.3	581.4	581.3	579.9	581.4	582.4	586.2	588.0	591.5
80°	516.6	510.9	508.2	503.8	504.6	504.3	508.0	511.0	515.6	516.5	521.0
82.5°	429.4	423.6	420.8	416.3	417.4	417.5	421.0	421.5	425.6	427.4	432.6
85°	307.4	309.7	303.5	304.0	302.6	305.0	307.4	310.4	313.8	319.4	323.8
87.5°	181.1	180.3	182.4	182.7	185.8	187.5	192.5	195.3	201.0	205.4	213.4
90°	112.5	108.2	108.4	106.0	107.5	105.2	106.8	104.2	106.4	105.6	108.8
92.5°	72.4	67.9	62.9	58.5	53.6	49.2	46.7	44.7	42.3	40.5	38.0
95°	98.6	91.7	84.8	78.0	71.1	64.3	61.8	59.3	56.7	54.2	51.7
97.5°	115.0	107.7	100.3	92.9	85.5	78.1	76.4	74.7	73.1	71.4	69.7
100°	166.6	152.3	138.0	123.7	109.4	95.2	93.8	92.5	91.2	89.8	88.4
102.5°	339.3	306.6	273.8	241.1	208.3	175.6	169.9	164.2	158.5	152.8	147.1
105°	625.4	572.9	520.5	468.1	415.7	363.3	347.7	331.9	316.4	300.8	285.1
107.5°	895.8	844.5	793.5	742.4	691.3	640.2	615.4	590.7	566.0	541.3	516.6
110°	1031.3	1000.7	970.0	939.2	908.6	878.0	854.2	830.8	807.1	783.6	760.1

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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1045.9	1030.6	1015.2	999.9	984.6	969.3	957.8	946.3	934.8	923.3	*911.7*
115°	971.9	967.0	962.1	957.4	952.5	947.6	946.7	946.1	945.1	944.4	*943.6*
117.5°	849.1	850.1	850.9	851.8	852.8	853.8	859.9	865.9	872.2	878.4	*884.7*
120°	727.3	731.4	735.5	739.7	743.8	748.2	756.3	764.6	772.8	781.3	*789.6*
122.5°	625.3	628.2	631.0	634.0	637.0	639.9	647.9	656.1	664.3	672.5	*681.1*
125°	546.4	546.5	546.8	546.8	547.0	547.2	553.8	560.6	567.4	574.3	*581.1*
127.5°	492.5	490.7	488.9	487.2	485.2	483.6	487.5	491.6	495.5	499.6	*503.6*
130°	459.1	455.9	452.7	449.7	446.3	443.3	444.8	446.4	447.9	449.6	*451.2*
132.5°	438.5	434.9	431.1	427.5	423.7	420.1	420.0	420.0	419.9	420.0	*420.2*
135°	424.0	420.5	416.9	413.4	409.8	406.4	405.5	404.5	403.7	402.9	*402.2*
137.5°	413.1	410.4	407.6	404.8	401.9	399.1	397.7	396.6	395.2	394.2	*393.1*
140°	404.8	402.7	400.3	398.1	395.8	393.7	392.5	391.5	390.5	389.6	*388.6*
142.5°	397.9	396.3	394.6	393.0	391.2	389.6	388.5	387.6	386.6	385.7	*384.7*
145°	394.1	393.1	391.9	390.8	389.8	388.7	387.7	387.0	386.2	385.6	*385.1*
147.5°	388.1	387.5	386.8	386.0	385.2	384.5	384.0	383.6	382.9	382.6	*382.0*
150°	381.9	381.4	380.7	380.2	379.4	378.8	378.5	378.2	377.8	377.8	*377.4*
152.5°	374.2	373.7	373.1	372.6	371.9	371.3	371.1	370.9	370.6	370.4	*370.0*
155°	368.7	368.3	367.9	367.5	367.0	366.7	366.3	365.8	365.5	365.2	*364.7*
157.5°	365.1	364.8	364.4	364.1	363.6	363.2	362.9	362.5	362.1	361.8	*361.4*
160°	362.8	362.5	362.1	361.8	361.4	361.1	360.5	360.0	359.4	359.0	*358.4*
162.5°	362.7	362.2	361.8	361.3	360.7	360.3	359.8	359.5	359.1	358.8	*358.3*
165°	362.5	362.2	361.8	361.4	361.3	360.9	360.3	359.8	359.2	358.8	*358.2*
167.5°	364.6	364.3	363.9	363.7	363.2	363.0	362.5	362.0	361.4	360.9	*360.4*
170°	365.4	364.9	364.6	364.0	363.6	363.1	362.7	362.2	361.6	361.3	*360.7*
172.5°	367.7	367.5	367.1	366.8	366.3	365.9	365.5	365.1	364.7	364.2	*363.9*
175°	367.1	367.1	367.0	366.7	366.6	366.4	366.3	366.2	366.0	365.9	*365.6*
177.5°	368.2	368.1	368.1	368.0	367.9	367.9	367.6	367.4	367.1	366.9	*366.8*
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	*365.9*

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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23508.6	23502.6	23505.5	23494.4	23497.1	23483.8	23482.6	23467.5	23466.1	23451.9	23446.7
5°	24304.6	24291.5	24306.3	24283.3	24287.7	24257.8	24255.3	24216.6	24203.3	24154.8	24133.8
7.5°	25179.3	25174.4	25183.4	25164.2	25163.5	25136.8	25125.8	25091.1	25069.5	25018.7	24986.2
10°	*25371.0*	*25375.5*	*25368.1*	*25369.9*	*25359.5*	*25356.7*	*25346.0*	*25339.2*	*25321.8*	*25308.6*	*25289.2*
12.5°	24575.2	24579.9	24549.6	24568.9	24553.6	24589.2	24586.4	24628.1	24634.6	24687.5	24707.5
15°	22736.0	22730.3	22672.0	22708.7	22689.0	22767.0	22784.4	22889.3	22945.3	23080.0	23162.7
17.5°	19957.6	19942.6	19860.6	19905.3	19882.6	19997.4	20036.0	20203.6	20308.3	20525.2	20679.7
20°	16645.7	16616.9	16520.9	16573.2	16549.8	16680.3	16735.4	16938.1	17072.9	17360.2	17564.6
22.5°	13292.5	13247.1	13153.1	13202.0	13179.9	13315.0	13386.7	13590.1	13744.6	14039.5	14278.0
25°	10281.4	10241.0	10150.2	10184.3	10176.1	10290.5	10354.1	10546.5	10698.3	10979.3	11207.0
27.5°	7841.9	7799.8	7717.7	7742.0	7733.6	7831.1	7891.1	8051.8	8182.4	8418.9	8618.8
30°	6001.8	5951.0	5881.4	5894.8	5889.1	5968.0	6024.1	6159.5	6271.4	6471.3	6643.5
32.5°	4600.4	4549.4	4485.4	4491.6	4483.2	4545.2	4591.4	4709.0	4806.6	4976.6	5126.5
35°	3519.9	3579.5	3442.9	3529.4	3439.4	3571.7	3524.1	3597.6	3681.6	3824.8	3949.8
37.5°	2706.0	2664.4	2629.3	2625.6	2625.4	2656.0	2692.2	2763.0	2836.9	2943.6	3053.8
40°	2144.3	2115.2	2092.5	2090.8	2092.5	2114.2	2141.0	2190.0	2244.1	2320.7	2401.7
42.5°	1778.5	1759.2	1745.5	1744.5	1748.9	1764.3	1782.9	1812.0	1847.2	1896.9	1952.4
45°	1539.4	1528.6	1520.9	1520.6	1522.5	1530.5	1541.2	1559.4	1581.7	1612.7	1647.8
47.5°	1371.5	1368.9	1364.1	1364.2	1362.1	1365.4	1366.7	1376.8	1388.7	1412.0	1457.9
50°	1249.3	1249.3	1246.0	1245.8	1242.7	1242.5	1239.9	1243.9	1249.5	1264.0	1278.6
52.5°	1152.7	1152.3	1148.8	1148.1	1144.8	1144.6	1142.4	1144.0	1144.7	1152.0	1160.8
55°	1077.2	1074.9	1070.3	1068.7	1067.5	1069.4	1068.5	1068.6	1067.6	1070.7	1073.3
57.5°	1023.0	1020.1	1015.6	1014.3	1014.0	1016.3	1016.3	1015.5	1011.4	1008.7	1004.8
60°	980.2	977.2	972.4	971.2	971.9	975.0	974.8	972.2	966.2	960.9	954.7
62.5°	938.0	936.9	934.4	934.1	933.5	934.0	931.8	929.0	923.0	917.4	910.7
65°	881.5	882.1	880.4	880.6	878.4	878.0	874.7	872.1	866.0	860.9	854.1
67.5°	822.9	823.3	821.8	821.8	820.7	820.9	818.9	816.4	811.2	807.1	801.8
70°	774.5	775.7	774.8	775.1	773.8	773.2	770.1	767.7	762.4	758.9	754.2
72.5°	716.7	719.2	719.1	719.8	717.7	716.7	712.9	709.9	705.1	702.3	698.5
75°	654.2	657.6	658.5	660.0	657.0	655.4	651.3	648.9	645.0	643.4	640.9
77.5°	593.1	596.9	600.4	603.7	598.9	594.7	589.6	585.7	580.1	577.9	574.1
80°	524.6	531.3	539.1	545.7	537.2	528.4	520.1	513.8	506.4	503.4	498.5
82.5°	435.2	442.0	446.5	450.8	444.8	438.4	430.3	424.8	416.9	413.9	408.2
85°	330.7	339.1	341.8	344.1	340.2	336.9	329.2	318.8	313.9	305.9	301.8
87.5°	217.5	222.5	223.5	224.3	221.9	220.3	215.3	210.5	201.8	195.6	188.0
90°	107.1	109.0	105.6	105.3	103.7	105.4	101.9	101.6	95.9	94.6	89.7
92.5°	35.9	33.5	31.4	29.1	31.7	33.6	36.1	38.0	40.4	42.3	44.7
95°	49.2	46.6	44.1	41.6	43.7	45.6	47.7	49.6	51.7	53.6	55.7
97.5°	68.0	66.4	64.7	63.0	64.2	65.3	66.5	67.6	68.9	70.0	71.3
100°	87.1	85.7	84.4	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
102.5°	141.4	135.7	130.0	124.3	128.1	132.0	135.9	139.7	143.6	147.4	151.3
105°	269.5	253.9	238.3	222.7	237.8	252.9	268.0	283.1	298.2	313.5	328.6
107.5°	491.8	467.2	442.5	417.9	445.5	473.0	500.5	528.0	555.5	583.1	610.7
110°	736.6	713.1	689.7	666.1	695.4	724.5	753.7	782.9	812.2	841.3	870.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	900.3	888.9	877.5	866.1	884.9	903.7	922.4	941.4	960.2	979.1	997.8
115°	942.9	942.2	941.6	940.9	949.8	958.7	967.5	976.5	985.5	994.4	1003.4
117.5°	890.9	897.2	903.5	909.9	912.8	915.6	918.6	921.4	924.5	927.4	930.4
120°	798.1	806.4	814.9	823.5	822.3	821.2	820.1	819.0	818.0	816.9	816.1
122.5°	689.5	697.9	706.4	714.9	712.4	709.8	707.4	705.0	702.7	700.3	698.0
125°	588.2	595.2	602.3	609.5	607.0	604.4	602.0	599.7	597.3	595.0	593.0
127.5°	507.9	512.3	516.6	521.0	519.9	518.7	517.8	516.7	515.8	515.0	514.2
130°	453.1	454.9	457.1	459.0	459.4	459.7	460.2	460.7	461.4	462.1	462.9
132.5°	420.5	420.8	421.2	421.8	423.1	424.4	426.0	427.5	429.3	430.9	432.9
135°	401.6	401.1	400.7	400.3	402.3	404.2	406.4	408.6	411.1	413.5	416.1
137.5°	392.3	391.3	390.7	389.8	391.8	393.8	396.0	398.3	400.6	403.1	405.6
140°	387.8	387.1	386.6	385.9	387.9	389.8	392.0	394.2	396.6	399.0	401.5
142.5°	384.0	383.3	382.7	382.2	383.9	385.8	387.8	389.8	392.0	394.1	396.4
145°	384.4	383.8	383.5	383.0	384.3	385.6	387.0	388.5	390.2	391.7	393.6
147.5°	381.7	381.3	381.1	380.9	381.9	382.7	383.9	384.9	386.1	387.3	388.7
150°	377.4	377.1	377.0	377.0	377.7	378.2	379.0	379.5	380.4	381.1	382.2
152.5°	370.0	369.7	369.8	369.7	370.3	370.9	371.6	372.1	372.9	373.6	374.5
155°	364.6	364.3	364.0	363.8	363.9	364.1	364.4	364.6	365.0	365.3	365.6
157.5°	361.3	360.9	360.7	360.4	360.4	360.3	360.4	360.4	360.5	360.4	360.6
160°	358.1	357.5	357.1	356.6	356.8	356.8	357.0	357.0	357.3	357.4	357.6
162.5°	358.1	357.7	357.5	357.2	357.0	356.6	356.5	356.1	355.9	355.7	355.7
165°	357.7	357.2	356.7	356.2	356.2	356.1	356.0	355.9	355.8	355.7	355.8
167.5°	360.0	359.4	359.0	358.4	358.1	357.6	357.3	356.9	356.6	356.3	356.1
170°	360.4	359.8	359.5	359.0	358.9	358.6	358.5	358.3	358.2	358.1	358.1
172.5°	363.6	363.1	362.8	362.4	362.2	362.1	362.0	361.9	361.8	361.8	361.7
175°	365.5	365.4	365.3	365.2	364.9	364.7	364.5	364.3	364.2	363.9	363.8
177.5°	366.4	366.2	366.0	365.8	365.7	365.7	365.7	365.7	365.7	365.6	365.5
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23431.4	23425.3	23409.1	23401.0	23386.1	23378.5	23366.8	23359.3	23349.8	23342.8	23339.1
5°	24080.6	24050.7	23990.6	23953.6	23888.9	23846.2	23781.7	23734.5	23668.0	23619.0	23556.2
7.5°	24925.3	24879.4	24802.5	24744.1	24653.4	24584.0	24482.3	24400.8	24288.4	24195.0	24080.1
10°	*25269.2*	*25242.4*	*25207.8*	*25170.3*	*25120.1*	*25070.8*	*25001.3*	*24930.4*	*24836.1*	*24742.1*	*24619.4*
12.5°	24760.9	24786.2	24836.1	24859.3	24897.4	24910.3	24927.7	24919.6	24904.1	24865.8	24810.1
15°	23321.5	23427.0	23593.6	23708.8	23870.3	23983.8	24133.8	24230.4	24341.7	24408.2	24471.4
17.5°	20953.6	21157.6	21451.7	21686.2	22001.2	22257.3	22571.0	22817.5	23102.1	23320.5	23552.9
20°	17920.8	18206.4	18612.3	18957.1	19413.5	19800.4	20296.2	20711.5	21195.9	21599.8	22035.6
22.5°	14656.7	14992.6	15457.7	15873.5	16418.5	16905.3	17526.4	18075.5	18730.5	19317.1	19966.2
25°	11577.2	11906.5	12380.3	12810.9	13399.2	13935.4	14614.0	15243.9	16004.0	16712.7	17526.4
27.5°	8936.5	9229.0	9645.5	10033.1	10571.9	11098.2	11786.9	12458.8	13269.7	14031.3	14908.2
30°	6901.5	7138.8	7472.6	7784.3	8216.8	8647.3	9260.8	9882.0	10689.0	11478.3	12377.3
32.5°	5348.4	5550.8	5829.4	6082.5	6415.8	6740.3	7192.1	7688.6	8396.4	9152.4	10021.7
35°	4140.3	4313.4	4550.5	4768.5	5042.6	5300.3	5637.4	5991.8	6532.0	7167.9	7945.8
37.5°	3300.9	3371.4	3540.7	3719.3	3946.9	4158.7	4422.4	4684.5	5070.9	5572.7	6208.1
40°	2510.3	2622.4	2760.0	2900.7	3073.1	3242.9	3532.3	3671.6	3926.0	4286.2	4779.4
42.5°	2025.5	2104.2	2201.2	2299.1	2419.2	2537.4	2683.8	2832.8	3023.0	3267.0	3617.8
45°	1694.9	1746.4	1808.8	1874.0	1952.9	2033.6	2131.6	2233.9	2362.9	2512.8	2725.9
47.5°	1474.1	1502.5	1543.4	1587.8	1641.9	1697.8	1761.5	1826.7	1906.9	1995.8	2117.1
50°	1301.8	1325.5	1357.2	1387.0	1424.2	1481.5	1506.8	1542.8	1591.0	1643.3	1711.2
52.5°	1177.1	1192.9	1212.8	1229.9	1253.5	1274.9	1303.0	1327.8	1361.1	1392.6	1436.4
55°	1080.0	1085.7	1097.0	1108.0	1124.3	1139.0	1158.2	1174.4	1195.7	1214.5	1242.2
57.5°	1004.9	1005.5	1010.7	1016.4	1026.9	1036.1	1049.4	1060.1	1074.8	1086.8	1103.4
60°	951.0	948.2	949.2	951.2	957.2	963.1	971.6	978.6	987.8	994.6	1004.0
62.5°	906.2	901.7	900.7	900.1	903.1	905.2	909.9	913.2	918.5	921.4	926.4
65°	849.5	844.3	842.1	839.7	840.6	839.9	841.6	841.7	844.4	845.0	847.8
67.5°	798.1	793.7	791.1	787.8	786.3	783.9	782.9	780.6	780.3	778.3	777.9
70°	751.2	747.0	744.6	741.6	740.1	737.0	735.0	731.2	729.0	725.4	723.4
72.5°	697.0	694.6	693.9	691.8	691.3	689.6	688.8	686.1	684.5	681.5	679.8
75°	640.4	638.3	638.1	636.1	635.9	633.9	633.3	630.5	629.0	625.9	624.6
77.5°	572.8	569.9	569.0	566.6	567.2	566.1	567.0	564.8	563.9	560.9	559.9
80°	496.8	493.0	491.4	488.2	489.1	487.6	489.1	488.9	490.0	487.6	487.2
82.5°	406.7	402.5	401.7	399.5	401.0	401.2	404.4	402.6	403.3	401.1	402.0
85°	295.9	292.8	288.5	287.9	285.1	288.0	284.3	286.8	282.7	285.5	281.7
87.5°	183.5	177.1	173.7	169.0	167.4	162.9	161.1	157.9	158.8	157.4	158.2
90°	89.7	85.5	86.4	84.0	85.8	84.0	86.7	86.1	89.1	88.4	91.7
92.5°	46.7	48.8	52.8	57.0	61.0	65.0	68.9	73.2	77.1	81.3	85.1
95°	57.7	59.7	65.1	70.4	75.8	81.2	86.6	92.0	97.4	102.7	108.1
97.5°	72.4	73.6	79.0	84.4	89.7	95.1	100.5	106.0	111.4	116.8	122.2
100°	83.1	83.1	98.4	113.7	128.9	144.3	159.6	174.8	190.3	205.6	220.8
102.5°	155.1	159.0	197.6	236.2	274.8	313.4	352.1	390.8	429.4	468.1	506.8
105°	343.7	358.9	417.8	476.8	535.6	594.6	653.6	712.6	771.5	830.5	889.5
107.5°	638.2	665.9	719.1	772.4	825.6	878.9	932.3	985.6	1038.8	1092.2	1145.6
110°	899.9	929.2	964.8	1000.6	1036.3	1072.0	1107.8	1143.5	1179.3	1215.1	1250.9

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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1016.7	1035.7	1056.4	1077.3	1098.2	1119.0	1139.8	1160.6	1181.7	1202.6	1223.5
115°	1012.5	1021.5	1029.4	1037.7	1045.8	1054.0	1062.1	1070.5	1078.8	1087.1	1095.4
117.5°	933.4	936.6	937.7	939.2	940.4	941.9	943.4	944.8	946.3	947.9	949.2
120°	815.1	814.2	812.9	811.6	810.2	809.1	808.0	806.8	805.8	804.7	803.5
122.5°	695.7	693.7	692.3	691.2	690.1	689.0	687.9	687.0	686.0	685.0	683.9
125°	590.7	588.7	589.9	591.2	592.5	593.9	595.2	596.6	598.0	599.5	601.0
127.5°	513.4	512.9	516.0	519.1	522.4	525.7	529.0	532.3	535.6	539.1	542.3
130°	463.7	464.7	468.7	472.8	476.9	481.2	485.4	489.7	493.8	498.0	502.2
132.5°	434.7	436.8	440.6	444.7	448.6	452.7	456.7	460.8	464.8	469.0	472.8
135°	418.7	421.3	424.9	428.6	432.3	436.0	439.7	443.5	447.1	450.8	454.4
137.5°	408.1	410.9	413.8	416.8	419.6	422.8	425.8	428.9	431.7	434.8	437.6
140°	404.0	406.7	408.3	410.3	412.0	413.8	415.4	417.2	418.8	420.8	422.4
142.5°	398.7	401.3	402.3	403.4	404.5	405.8	407.0	408.1	409.2	410.2	411.3
145°	395.3	397.2	397.3	397.5	397.8	398.1	398.2	398.3	398.4	398.6	398.7
147.5°	390.1	391.5	391.2	391.3	391.2	391.0	390.9	390.9	390.6	390.6	390.4
150°	383.0	384.1	383.5	383.3	382.7	382.5	381.9	381.7	381.1	380.9	380.3
152.5°	375.2	376.1	375.3	375.1	374.5	374.0	373.4	373.0	372.4	372.0	371.5
155°	365.9	366.3	366.0	365.7	365.5	365.2	364.8	364.7	364.6	364.3	364.1
157.5°	360.6	360.7	360.6	360.4	360.1	360.0	359.9	359.8	359.8	359.8	359.8
160°	357.7	358.0	357.7	357.5	357.3	357.2	357.1	357.1	357.0	357.2	357.2
162.5°	355.4	355.3	355.0	354.9	354.8	354.7	354.6	354.7	354.7	354.8	354.9
165°	355.9	356.1	355.6	355.4	355.1	354.9	354.6	354.4	354.4	354.3	354.2
167.5°	355.8	355.7	355.7	355.7	355.7	355.8	355.9	356.3	356.4	356.7	356.7
170°	358.1	358.1	357.9	357.8	357.6	357.5	357.5	357.4	357.3	357.3	357.3
172.5°	361.7	361.7	361.4	361.0	360.7	360.5	360.1	359.8	359.6	359.3	359.0
175°	363.5	363.3	363.1	363.0	362.8	362.5	362.4	362.1	361.9	361.7	361.5
177.5°	365.5	365.3	365.2	365.2	365.1	365.0	365.0	364.9	364.9	364.9	364.7
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23334.4	23334.1	23331.9	23333.0	23333.4	23335.0	23337.1	23339.1	23339.6	23341.2	23341.5
5°	23509.1	23451.3	23408.6	23361.7	23326.4	23294.6	23273.4	23256.6	23250.1	23251.7	23255.6
7.5°	23982.6	23863.5	23765.1	23653.3	23560.1	23461.4	23379.6	23301.8	23245.1	23202.9	23179.2
10°	*24502.2*	*24357.1*	*24218.2*	*24056.5*	*23903.0*	*23739.2*	*23590.9*	*23441.5*	*23317.0*	*23208.8*	*23129.4*
12.5°	24732.9	24630.2	24510.2	24357.5	24193.4	24004.4	23813.6	23609.0	23418.7	23242.1	23099.7
15°	24488.7	24488.9	24445.1	24371.9	24257.8	24106.7	23924.9	23711.7	23487.2	23258.2	23049.0
17.5°	23713.7	23859.9	23941.2	23992.7	23976.8	23921.2	23805.5	23641.7	23432.5	23188.5	22933.2
20°	22382.7	22727.6	22973.5	23194.6	23318.5	23400.9	23392.7	23326.0	23177.0	22969.6	22703.6
22.5°	20518.2	21097.1	21553.9	21979.9	22278.6	22521.6	22637.2	22686.2	22618.6	22474.2	22224.5
25°	18253.7	19040.7	19712.4	20364.3	20853.3	21273.5	21526.1	21704.1	21718.2	21642.7	21419.9
27.5°	15737.3	16666.4	17516.5	18382.9	19070.6	19674.7	20071.0	20361.2	20453.3	20441.2	20238.9
30°	13224.1	14199.5	15136.6	16146.8	16997.8	17769.6	18293.2	18685.6	18836.8	18865.8	18671.1
32.5°	10850.7	11812.6	12747.0	13803.2	14739.6	15624.2	16242.8	16708.9	16884.8	16926.1	16712.7
35°	8696.7	9584.1	10472.1	11495.8	12426.8	13342.8	13994.6	14482.6	14646.9	14674.5	14427.5
37.5°	6828.8	7584.8	8358.7	9277.1	10132.1	10992.4	11611.7	12070.3	12189.9	12182.5	11902.9
40°	5256.0	5843.8	6465.6	7221.7	7932.5	8659.7	9182.7	9561.8	9624.7	9578.1	9284.4
42.5°	3952.2	4376.7	4827.6	5391.9	5919.4	6463.6	6844.1	7125.6	7134.5	7060.9	6797.3
45°	2944.4	3358.6	3547.6	3888.8	4228.5	4590.5	4822.8	4996.7	4969.8	4905.0	4704.7
47.5°	2244.6	2403.8	2572.6	2784.2	2982.1	3392.7	3362.4	3641.6	3440.4	3577.6	3275.7
50°	1782.5	1871.4	1962.4	2074.7	2178.0	2285.4	2352.5	2402.6	2396.1	2374.5	2316.7
52.5°	1516.5	1543.9	1588.7	1652.6	1710.4	1768.4	1806.6	1837.6	1838.2	1829.6	1800.3
55°	1267.4	1302.3	1334.5	1376.3	1447.3	1458.3	1513.1	1501.9	1506.3	1491.1	1506.6
57.5°	1117.5	1137.7	1155.9	1180.8	1201.3	1225.2	1239.4	1253.0	1251.7	1248.8	1233.9
60°	1011.2	1022.4	1032.5	1047.0	1058.2	1071.8	1078.3	1085.2	1083.0	1077.9	1064.6
62.5°	929.3	936.3	942.0	951.4	958.2	966.7	970.1	973.0	970.1	965.3	953.6
65°	848.5	853.0	856.7	863.7	868.5	875.7	878.6	881.3	878.7	874.9	866.0
67.5°	775.6	776.0	775.6	778.5	780.0	784.4	785.6	787.7	784.5	781.3	773.8
70°	720.3	719.1	717.8	718.9	719.1	721.2	721.6	721.2	717.5	711.9	703.7
72.5°	677.1	676.5	675.4	676.4	676.4	678.2	677.7	676.7	672.1	666.8	658.6
75°	621.5	621.1	619.0	619.1	617.4	617.9	615.7	614.4	609.3	604.7	597.5
77.5°	556.5	555.4	552.4	551.3	548.0	546.6	542.3	540.3	535.0	531.4	525.1
80°	484.0	482.8	478.9	476.8	471.5	468.2	462.0	458.4	452.4	448.9	442.8
82.5°	400.0	400.5	396.6	393.9	386.4	380.7	372.3	367.9	361.3	357.8	351.5
85°	284.5	280.4	282.6	282.4	277.8	272.8	266.0	261.3	255.7	252.4	248.0
87.5°	156.0	157.0	155.9	154.9	151.6	149.1	143.8	141.1	137.0	134.9	131.6
90°	85.3	82.9	76.6	74.3	68.4	64.6	57.9	54.8	48.5	47.0	43.1
92.5°	80.6	76.0	71.6	66.9	62.6	58.1	53.6	49.0	44.5	42.8	41.4
95°	101.6	95.1	88.6	82.0	75.5	68.9	62.5	55.9	49.4	48.0	46.7
97.5°	114.5	106.8	99.1	91.4	83.8	76.0	68.4	60.7	52.9	52.1	51.2
100°	203.1	185.4	167.5	149.8	132.1	114.3	96.6	78.9	61.1	60.2	59.1
102.5°	463.7	420.6	377.7	334.6	291.7	248.5	205.6	162.5	119.4	113.2	107.0
105°	824.4	759.2	694.2	629.1	563.8	498.7	433.6	368.3	303.2	282.3	261.3
107.5°	1084.4	1023.1	962.0	900.8	839.5	778.3	716.9	655.6	594.3	557.5	520.7
110°	1202.2	1153.6	1105.2	1056.5	1008.0	959.3	910.7	862.1	813.4	781.6	750.1

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

Scaled Data Report

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1188.0	1152.3	1116.9	1081.1	1045.7	1009.9	974.3	938.5	902.8	883.7	864.3
115°	1073.9	1052.5	1031.1	1009.7	988.3	966.8	945.3	923.8	902.2	892.0	881.9
117.5°	938.5	927.5	916.6	905.6	894.6	883.6	872.6	861.6	850.5	847.0	843.4
120°	800.4	797.1	793.6	790.4	787.1	783.7	780.2	776.8	773.3	773.8	774.2
122.5°	685.3	686.5	688.0	689.0	690.5	691.5	692.9	693.8	695.1	697.8	700.5
125°	604.1	607.2	610.5	613.6	616.8	619.8	623.1	626.0	629.2	631.9	634.8
127.5°	545.9	549.4	553.0	556.5	560.3	563.6	567.2	570.6	574.2	576.7	579.2
130°	505.3	508.3	511.5	514.5	517.6	520.6	523.6	526.8	529.8	531.7	533.6
132.5°	475.7	478.5	481.3	483.9	486.7	489.4	492.3	494.9	497.8	499.1	500.7
135°	456.6	458.6	460.6	462.6	464.9	466.9	469.0	471.1	473.3	474.3	475.3
137.5°	439.3	440.9	442.7	444.3	446.2	447.8	449.6	451.4	453.3	453.7	454.3
140°	424.1	425.9	427.7	429.4	431.4	433.1	435.1	437.0	439.1	439.4	440.1
142.5°	412.7	414.0	415.4	416.9	418.3	419.7	421.3	423.0	424.6	425.1	425.6
145°	400.4	402.0	403.8	405.4	407.0	408.8	410.8	412.7	414.6	414.8	415.3
147.5°	391.7	393.2	394.7	396.0	397.6	399.1	400.8	402.5	404.3	404.5	404.8
150°	381.9	383.4	385.0	386.4	388.1	389.8	391.7	393.4	395.5	395.9	396.5
152.5°	373.1	374.7	376.4	378.2	380.0	381.9	383.8	385.8	387.8	388.2	388.8
155°	365.8	367.3	369.1	370.9	372.7	374.4	376.3	378.2	380.2	380.9	381.4
157.5°	361.4	362.7	364.4	366.0	367.5	369.1	371.0	372.6	374.4	374.9	375.4
160°	358.5	359.8	361.3	362.7	364.1	365.5	367.1	368.6	370.1	370.6	371.2
162.5°	356.2	357.5	359.0	360.2	361.7	363.1	364.7	366.1	367.6	368.0	368.5
165°	355.2	356.3	357.3	358.2	359.3	360.3	361.4	362.5	363.7	364.1	364.7
167.5°	357.7	358.3	359.1	359.9	360.8	361.6	362.6	363.3	364.3	364.7	365.3
170°	358.1	358.7	359.4	360.2	360.9	361.7	362.5	363.1	364.1	364.6	365.1
172.5°	359.5	359.8	360.4	360.8	361.4	361.8	362.3	362.9	363.4	364.0	364.6
175°	361.9	362.1	362.3	362.5	362.7	363.0	363.3	363.6	363.9	364.3	364.7
177.5°	364.9	365.1	365.3	365.5	365.7	365.9	366.2	366.3	366.6	367.1	367.7
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23340.7	23340.5	23339.7	23338.7	23337.6	23338.2	23339.3	23342.0	23346.7	23353.5	23362.3
5°	23258.8	23263.6	23266.3	23266.7	23264.2	23262.7	23265.0	23271.4	23284.3	23306.1	23335.4
7.5°	23172.9	23178.8	23187.8	23194.6	23195.9	23194.2	23194.6	23204.6	23228.5	23270.8	23330.1
10°	*23081.1*	*23063.8*	*23072.9*	*23089.8*	*23103.1*	*23105.5*	*23107.2*	*23119.1*	*23154.0*	*23217.8*	*23313.1*
12.5°	22996.5	22941.2	22930.6	22945.8	22966.1	22972.6	22970.8	22975.9	23016.8	23101.3	23234.0
15°	22885.0	22781.1	22745.6	22749.5	22774.6	22783.7	22777.1	22767.0	22806.8	22910.0	23081.8
17.5°	22704.6	22537.2	22471.9	22469.0	22498.3	22506.2	22490.0	22458.8	22498.0	22626.8	22840.1
20°	22430.5	22183.2	22060.3	22040.8	22072.6	22063.4	22031.2	21984.0	22035.5	22192.0	22445.7
22.5°	21937.6	21624.3	21414.3	21346.6	21384.8	21359.3	21312.3	21252.1	21320.5	21498.5	21780.9
25°	21132.2	20770.1	20482.7	20321.5	20351.8	20306.3	20255.1	20182.1	20263.7	20468.0	20778.9
27.5°	19948.3	19530.2	19173.9	18907.0	18916.8	18857.1	18798.2	18703.7	18805.6	19047.3	19398.0
30°	18374.1	17890.2	17456.4	17093.7	17061.2	17003.3	16943.0	16818.9	16946.4	17235.8	17645.5
32.5°	16397.1	15859.9	15358.7	14900.0	14813.5	14757.0	14703.3	14560.4	14727.4	15064.8	15535.6
35°	14085.2	13512.9	12969.5	12445.6	12302.3	12245.8	12198.8	12061.9	12270.4	12637.5	13145.9
37.5°	11547.5	10962.9	10423.4	9886.1	9683.6	9606.9	9572.8	9483.1	9723.7	10086.8	10597.2
40°	8942.2	8398.6	7915.0	7440.5	7209.6	7092.3	7074.4	7058.1	7290.6	7605.7	8069.0
42.5°	6505.1	6066.6	5693.7	5331.0	5121.6	4961.5	4961.4	5010.1	5219.4	5455.4	5812.7
45°	4499.8	4205.5	3967.9	3725.5	3790.3	3471.1	3658.7	3562.3	3665.8	3818.0	4050.3
47.5°	3093.1	2932.6	2802.0	2666.6	2567.9	2473.6	2481.9	2542.7	2640.1	2730.4	2851.3
50°	2254.4	2172.6	2106.1	2035.8	1986.7	1945.1	1947.5	1973.8	2025.0	2072.6	2135.9
52.5°	1766.5	1721.3	1685.2	1646.4	1620.5	1600.0	1601.0	1613.8	1641.5	1668.7	1704.9
55°	1456.0	1450.6	1403.6	1368.7	1355.4	1341.5	1344.0	1349.1	1367.9	1383.9	1407.8
57.5°	1220.1	1199.0	1184.9	1166.6	1158.1	1148.4	1150.6	1152.5	1165.1	1175.8	1193.1
60°	1053.6	1038.6	1028.6	1016.2	1010.6	1004.4	1005.8	1007.0	1015.0	1022.0	1034.3
62.5°	942.9	929.5	920.9	911.2	907.4	903.2	904.1	904.4	909.5	914.6	924.0
65°	858.0	847.5	840.3	831.9	827.8	823.5	823.9	823.9	828.1	831.9	838.9
67.5°	768.3	760.3	755.6	749.0	746.2	741.8	741.7	740.4	743.1	744.5	749.4
70°	696.2	688.1	682.2	675.8	672.4	668.4	668.5	668.6	671.8	675.2	681.4
72.5°	651.7	644.0	638.7	633.2	629.9	626.6	625.9	625.6	627.9	629.8	633.9
75°	592.8	586.6	583.5	578.3	575.7	571.9	571.3	569.6	570.8	571.1	574.2
77.5°	521.3	515.4	512.9	507.7	505.5	501.3	500.9	498.9	499.8	499.2	501.5
80°	439.8	434.5	433.1	428.7	427.7	423.8	423.2	420.9	421.5	419.7	420.6
82.5°	348.8	344.0	342.9	338.9	338.9	335.3	335.2	331.6	331.6	328.6	323.8
85°	245.7	242.1	240.7	237.4	236.4	233.6	232.1	228.7	227.5	225.3	224.7
87.5°	129.7	127.4	125.4	123.9	121.0	115.8	115.4	111.8	112.1	109.6	109.8
90°	41.9	38.4	37.3	34.1	32.8	30.3	29.2	29.8	30.7	31.5	32.6
92.5°	39.9	38.4	37.0	35.5	34.0	32.4	30.9	32.4	34.0	35.5	37.0
95°	45.4	44.0	42.7	41.3	40.0	38.7	37.3	38.7	40.0	41.4	42.8
97.5°	50.4	49.5	48.7	47.9	47.1	46.2	45.4	46.3	47.1	47.9	48.8
100°	58.1	57.1	56.1	55.1	54.1	53.0	52.0	53.2	54.3	55.3	56.2
102.5°	100.9	94.6	88.5	82.3	76.0	69.9	63.6	69.9	76.0	82.3	88.6
105°	240.3	219.5	198.5	177.5	156.6	135.5	114.6	135.6	156.7	177.6	198.6
107.5°	483.7	447.0	410.1	373.3	336.2	299.4	262.5	299.5	336.4	373.4	410.3
110°	718.2	686.4	654.6	622.8	590.9	559.2	527.3	559.3	591.1	623.0	654.9

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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	845.0	825.7	806.3	787.1	767.6	748.3	728.9	748.5	768.0	787.5	806.8
115°	871.7	861.5	851.3	841.1	830.8	820.6	810.1	820.8	831.3	841.6	852.0
117.5°	839.8	836.3	832.6	829.0	825.4	821.7	818.0	821.9	825.8	829.8	833.5
120°	774.5	775.0	775.3	775.6	775.9	776.2	776.4	776.5	776.5	776.5	776.4
122.5°	703.1	705.8	708.3	711.0	713.4	716.0	718.3	716.4	714.2	712.1	709.7
125°	637.3	640.2	642.9	645.5	648.1	650.8	653.1	651.2	649.1	646.9	644.6
127.5°	581.6	584.1	586.5	589.0	591.3	593.4	595.5	593.9	592.2	590.3	588.2
130°	535.5	537.5	539.2	541.0	542.7	544.3	545.7	544.8	543.7	542.6	541.2
132.5°	502.1	503.6	504.9	506.3	507.4	508.8	509.6	509.3	508.6	508.0	507.1
135°	476.3	477.3	478.1	479.2	479.8	480.5	480.9	481.1	480.9	480.8	480.3
137.5°	454.8	455.5	455.8	456.1	456.4	456.6	456.6	457.2	457.6	458.0	458.1
140°	440.6	441.2	441.6	442.0	442.4	442.7	442.6	443.3	443.6	444.0	444.1
142.5°	426.2	426.8	427.1	427.6	427.8	428.1	428.1	428.7	429.1	429.4	429.5
145°	415.6	415.9	416.2	416.4	416.4	416.5	416.3	417.1	417.6	418.1	418.6
147.5°	405.1	405.5	405.6	405.7	405.7	405.8	405.6	406.4	406.9	407.4	407.9
150°	397.1	397.6	398.2	398.5	398.9	399.1	399.1	399.7	399.9	400.2	400.3
152.5°	389.2	389.7	390.2	390.6	390.9	391.0	391.1	391.6	392.0	392.4	392.5
155°	381.9	382.6	383.1	383.6	384.0	384.4	384.7	385.1	385.3	385.5	385.7
157.5°	375.9	376.5	377.0	377.5	377.8	378.4	378.7	379.1	379.4	379.7	379.9
160°	371.5	372.1	372.5	373.0	373.5	373.9	374.3	374.6	375.0	375.3	375.6
162.5°	368.9	369.5	369.7	370.3	370.7	371.2	371.5	371.9	372.2	372.6	372.9
165°	365.4	366.0	366.4	367.1	367.7	368.3	368.8	368.9	369.0	369.2	369.3
167.5°	365.8	366.4	366.8	367.4	367.9	368.5	369.0	369.2	369.2	369.3	369.4
170°	365.5	366.0	366.4	366.9	367.4	368.0	368.3	368.4	368.5	368.6	368.7
172.5°	365.0	365.7	366.3	367.0	367.4	368.0	368.5	368.5	368.3	368.2	368.0
175°	365.1	365.7	366.2	366.7	367.1	367.6	368.1	367.9	367.8	367.6	367.4
177.5°	368.3	369.0	369.6	370.1	370.7	371.2	371.8	371.2	370.9	370.4	369.9
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23374.8	23386.5	23404.3	23420.6	23445.0	23464.2	23493.2	23515.1	23547.7	23568.9	23604.4
5°	23376.9	23422.6	23482.8	23541.4	23612.0	23676.1	23755.6	23823.4	23903.5	23968.7	24050.5
7.5°	23410.0	23498.1	23603.8	23710.4	23830.8	23943.5	24070.4	24185.3	24310.9	24417.2	24533.3
10°	*23434.3*	*23570.4*	*23726.1*	*23882.9*	*24047.8*	*24201.1*	*24355.9*	*24489.7*	*24614.6*	*24717.4*	*24808.3*
12.5°	23401.2	23588.6	23788.5	23981.5	24165.0	24323.6	24456.8	24559.7	24630.6	24678.9	24690.1
15°	23288.9	23514.3	23731.7	23923.9	24076.2	24193.5	24254.3	24282.8	24252.3	24201.6	24090.1
17.5°	23078.9	23316.7	23511.0	23662.7	23743.2	23775.0	23724.6	23637.1	23465.9	23275.9	23001.6
20°	22694.0	22915.6	23056.5	23139.2	23117.7	23038.1	22848.0	22617.0	22275.3	21911.2	21430.6
22.5°	22018.8	22212.5	22287.7	22293.8	22162.5	21963.2	21620.4	21224.1	20685.0	20124.6	19435.4
25°	21005.4	21175.1	21186.9	21120.3	20879.9	20557.0	20053.6	19493.0	18760.5	18013.8	17150.1
27.5°	19630.9	19793.6	19753.8	19629.5	19295.8	18863.7	18219.2	17495.0	16591.9	15709.9	14754.5
30°	17903.2	18077.2	18030.4	17870.9	17474.1	16963.3	16204.9	15363.5	14360.9	13418.9	12450.7
32.5°	15835.5	16055.6	16023.2	15871.6	15457.5	14910.9	14088.0	13195.6	12169.8	11241.5	10299.8
35°	13485.3	13752.5	13766.3	13667.2	13282.8	12742.5	11929.9	11066.3	10083.7	9207.8	8337.8
37.5°	10953.3	11263.1	11326.6	11299.9	10981.3	10504.4	9764.1	8989.2	8118.8	7351.1	6607.0
40°	8407.4	8720.9	8829.6	8861.8	8626.8	8257.4	7649.7	7024.3	6314.7	5692.7	5101.9
42.5°	6085.5	6363.4	6468.5	6534.6	6387.9	6141.6	5698.3	5244.2	4724.3	4275.6	3845.4
45°	4226.5	4423.1	4503.0	4569.6	4489.6	4350.7	4070.8	3786.7	3443.5	3150.4	2872.9
47.5°	2955.0	3063.4	3116.1	3148.5	3117.5	3045.0	2892.7	2728.1	2534.4	2363.1	2198.4
50°	2190.2	2248.0	2275.6	2294.2	2271.7	2231.4	2149.0	2059.4	1953.0	1856.0	1761.1
52.5°	1735.8	1768.8	1785.2	1795.3	1782.4	1757.7	1709.7	1656.6	1592.8	1532.8	1501.3
55°	1462.3	1460.6	1498.5	1480.2	1498.5	1457.5	1449.0	1390.6	1337.6	1300.4	1260.0
57.5°	1205.9	1223.1	1230.4	1238.5	1233.2	1225.8	1205.4	1184.4	1156.5	1133.2	1108.2
60°	1043.9	1058.0	1066.0	1074.1	1073.6	1070.8	1058.9	1046.5	1029.0	1015.0	999.9
62.5°	932.2	944.4	952.4	960.1	960.8	959.7	950.8	942.0	930.2	921.3	911.0
65°	844.4	853.0	858.3	864.5	864.2	862.5	854.4	847.3	837.5	831.3	823.8
67.5°	752.5	759.0	763.2	769.0	770.1	770.5	766.0	762.6	757.8	756.1	753.5
70°	687.2	695.0	701.7	709.1	713.1	715.0	713.1	711.3	708.5	707.4	705.3
72.5°	637.7	644.4	649.6	656.2	660.0	662.7	661.1	660.2	657.8	657.5	656.1
75°	576.2	580.8	583.8	588.8	590.8	593.3	592.2	592.8	592.0	593.9	593.9
77.5°	502.3	505.7	507.1	510.8	511.2	514.2	514.8	518.4	521.0	526.5	529.4
80°	419.2	421.3	421.3	425.1	426.8	431.8	434.3	440.1	442.8	447.8	448.2
82.5°	325.6	323.1	325.6	324.1	328.8	334.6	335.3	340.3	341.4	344.6	342.1
85°	222.6	222.4	220.5	220.8	219.3	220.0	219.1	220.1	219.2	219.3	217.1
87.5°	106.7	107.6	105.2	106.0	103.8	104.9	102.8	104.4	102.0	102.4	98.9
90°	33.4	34.4	35.3	36.4	37.7	40.5	43.4	46.3	49.5	52.1	55.2
92.5°	38.4	40.0	41.5	43.0	44.6	49.1	53.6	58.2	62.8	67.2	71.7
95°	44.1	45.4	46.8	48.3	49.6	56.1	62.7	69.2	75.8	82.3	88.9
97.5°	49.8	50.7	51.5	52.4	53.3	61.0	68.7	76.5	84.2	91.9	99.5
100°	57.4	58.4	59.3	60.5	61.5	79.3	97.0	114.9	132.6	150.3	168.1
102.5°	94.8	101.1	107.3	113.6	119.9	163.0	206.1	249.2	292.1	335.2	378.3
105°	219.7	240.6	261.7	282.8	303.7	368.9	434.3	499.5	564.5	629.8	695.0
107.5°	447.3	484.2	521.2	558.1	595.0	656.4	717.7	779.0	840.4	901.7	962.9
110°	686.9	718.6	750.7	782.5	814.4	863.1	911.9	960.5	1009.2	1057.9	1106.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	826.4	845.8	865.2	884.5	904.0	939.7	975.6	1011.4	1047.2	1082.6	1118.4
115°	862.4	872.6	882.9	893.2	903.6	925.3	946.7	968.4	990.1	1011.5	1033.2
117.5°	837.3	841.1	844.8	848.4	852.1	863.2	874.5	885.6	896.8	907.9	918.9
120°	776.4	776.1	775.9	775.6	775.4	778.9	782.5	786.0	789.5	792.9	796.3
122.5°	707.5	704.9	702.6	700.0	697.6	696.3	695.4	694.2	693.3	692.1	691.0
125°	642.2	639.7	637.2	634.6	631.9	629.0	626.0	623.0	620.0	616.9	613.9
127.5°	586.4	584.1	582.0	579.7	577.4	573.9	570.5	567.0	563.8	560.2	556.8
130°	539.9	538.2	536.7	534.9	533.4	530.3	527.5	524.4	521.5	518.5	515.6
132.5°	506.3	505.1	504.1	502.7	501.6	498.9	496.5	493.7	491.0	488.3	485.8
135°	480.1	479.4	479.0	478.2	477.5	475.3	473.5	471.4	469.5	467.5	465.5
137.5°	458.3	458.1	458.0	457.8	457.7	456.0	454.4	452.7	451.2	449.4	448.0
140°	444.1	444.1	444.1	443.8	443.6	441.8	440.2	438.4	436.7	434.9	433.2
142.5°	429.6	429.6	429.5	429.4	429.3	427.8	426.6	425.3	423.9	422.6	421.2
145°	418.7	418.9	419.2	419.1	419.4	417.7	416.2	414.4	413.0	411.3	409.8
147.5°	408.2	408.4	408.8	408.9	409.2	407.8	406.5	405.1	404.0	402.5	401.4
150°	400.4	400.5	400.6	400.5	400.5	399.1	397.8	396.3	395.0	393.5	392.3
152.5°	392.6	392.8	393.0	393.1	393.3	391.8	390.4	388.9	387.5	385.9	384.4
155°	385.9	386.0	386.0	386.0	386.0	384.7	383.4	381.9	380.6	379.2	377.8
157.5°	380.1	380.2	380.4	380.5	380.6	379.4	378.3	377.0	375.9	374.6	373.5
160°	375.8	376.1	376.2	376.3	376.5	375.5	374.6	373.5	372.7	371.4	370.4
162.5°	373.1	373.4	373.6	373.7	373.8	372.9	372.1	371.0	370.0	368.8	367.9
165°	369.6	369.5	369.6	369.5	369.5	368.8	368.2	367.6	366.9	366.2	365.5
167.5°	369.6	369.5	369.6	369.5	369.5	368.9	368.8	368.1	367.6	367.1	366.6
170°	368.8	368.8	368.7	368.6	368.6	368.0	367.7	367.1	366.8	366.2	365.6
172.5°	367.9	367.6	367.5	367.3	367.1	366.7	366.4	366.2	365.9	365.5	365.2
175°	367.1	366.9	366.8	366.5	366.3	366.2	366.0	365.9	365.7	365.6	365.5
177.5°	369.6	369.2	368.7	368.3	367.9	367.7	367.6	367.4	367.4	367.3	367.1
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23626.4	23480.5	23461.2	23471.4	23495.9	23504.9	23531.2	23538.4	23564.8	23571.3	23596.8
5°	24113.9	23921.0	23930.7	23977.0	24047.2	24089.1	24158.1	24194.2	24260.0	24290.0	24349.6
7.5°	24628.0	24476.5	24523.7	24601.9	24697.9	24764.4	24847.3	24901.3	24972.8	25017.0	25074.3
10°	*24880.3*	*24838.9*	*24890.9*	*24952.4*	*25007.1*	*25050.0*	*25085.2*	*25113.3*	*25131.7*	*25149.0*	*25156.5*
12.5°	24688.3	24752.6	24761.4	24755.4	24719.1	24691.4	24629.2	24586.9	24511.9	24466.1	24376.8
15°	23976.3	24117.4	24039.3	23920.9	23747.6	23603.2	23399.3	23247.4	23035.0	22891.0	22677.8
17.5°	22726.6	22904.9	22701.1	22427.2	22078.7	21780.6	21409.4	21114.7	20745.6	20477.1	20132.7
20°	20967.4	21134.0	20770.6	20316.5	19777.4	19323.7	18788.8	18361.9	17864.8	17495.0	17048.7
22.5°	18777.1	18895.7	18383.8	17771.5	17084.8	16518.1	15878.4	15366.7	14799.3	14376.6	13900.7
25°	16353.8	16385.9	15771.7	15066.5	14301.0	13664.1	12981.2	12443.2	11864.5	11436.1	10969.0
27.5°	13908.0	13861.1	13197.3	12449.5	11644.3	10982.3	10316.3	9812.1	9305.3	8919.3	8517.0
30°	11599.5	11485.9	10796.7	10028.0	9246.5	8653.1	8100.1	7695.3	7292.1	6985.9	6663.0
32.5°	9482.6	9322.2	8651.4	7931.2	7272.7	6814.7	6404.7	6098.3	5772.8	5514.2	5243.1
35°	7607.6	7436.6	6842.3	6231.8	5733.4	5395.8	5073.6	4822.2	4545.8	4327.6	4092.2
37.5°	5998.3	5858.3	5360.5	4880.1	4503.0	4241.5	3977.4	3772.0	3543.5	3447.6	3196.0
40°	4630.7	4532.8	4143.5	3789.4	3506.3	3383.4	3115.4	2923.5	2752.8	2612.0	2475.7
42.5°	3612.1	3577.4	3198.6	2922.4	2723.0	2568.2	2418.8	2297.5	2179.5	2082.5	1990.8
45°	2650.7	2623.2	2455.1	2295.7	2159.9	2051.6	1950.6	1867.2	1790.1	1726.1	1667.9
47.5°	2064.1	2055.3	1958.5	1859.6	1774.0	1704.5	1639.0	1583.6	1532.4	1489.7	1475.8
50°	1678.8	1677.7	1620.8	1559.9	1498.9	1458.7	1416.9	1384.1	1351.2	1325.7	1298.6
52.5°	1426.4	1420.3	1381.9	1344.2	1308.0	1281.6	1254.9	1234.0	1212.2	1196.4	1179.6
55°	1228.0	1234.5	1212.3	1189.8	1167.2	1150.8	1132.0	1118.2	1103.3	1093.3	1083.2
57.5°	1090.2	1098.8	1087.2	1074.4	1060.6	1049.9	1036.9	1027.4	1017.4	1011.0	1005.1
60°	990.0	999.3	994.6	988.2	979.7	973.3	965.0	959.8	953.3	949.8	946.5
62.5°	904.9	916.6	914.9	911.9	906.5	902.9	898.4	896.0	891.8	890.2	888.6
65°	820.0	833.2	832.9	831.4	828.4	827.4	824.6	824.1	821.9	822.8	822.6
67.5°	753.3	764.7	767.3	769.1	769.0	769.7	769.4	770.6	770.6	772.2	773.2
70°	705.1	713.1	715.0	716.9	717.5	719.0	719.0	720.0	719.7	721.1	721.2
72.5°	656.4	666.9	668.8	670.4	670.4	671.8	671.1	670.8	668.7	668.3	666.8
75°	595.8	609.3	612.2	614.2	614.4	615.7	613.9	612.7	609.3	607.8	605.4
77.5°	532.5	546.5	548.6	549.3	548.1	548.4	544.6	542.0	537.6	535.8	533.4
80°	450.2	470.8	472.4	471.1	467.9	467.4	463.7	461.3	455.9	454.1	452.1
82.5°	342.6	366.7	370.1	371.5	368.9	369.6	366.0	364.7	359.8	358.9	355.7
85°	216.3	240.4	244.4	243.8	241.2	240.6	238.5	239.2	238.7	240.1	240.8
87.5°	99.4	122.7	128.3	126.5	126.3	124.7	120.9	122.3	124.6	126.0	126.1
90°	58.1	68.1	70.8	69.0	64.8	62.6	58.5	56.7	53.0	51.2	47.6
92.5°	76.3	80.8	85.4	81.4	77.4	73.3	69.2	65.1	61.2	57.0	53.1
95°	95.4	101.9	108.4	103.0	97.6	92.1	86.8	81.5	76.1	70.7	65.3
97.5°	107.3	114.8	122.4	117.1	111.7	106.2	100.9	95.4	90.1	84.7	79.2
100°	185.9	203.3	221.0	205.8	190.3	175.1	159.9	144.5	129.3	114.1	98.6
102.5°	421.2	464.1	507.1	468.4	429.7	391.0	352.4	313.8	275.2	236.4	197.8
105°	760.1	824.9	890.0	830.8	771.8	712.9	653.9	594.9	535.9	476.9	418.0
107.5°	1024.2	1085.0	1146.0	1092.6	1039.2	986.0	932.6	879.3	825.9	772.6	719.3
110°	1155.1	1202.9	1251.4	1215.5	1179.8	1144.0	1108.2	1072.3	1036.6	1000.9	965.2

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1154.0	1188.8	1224.2	1203.0	1182.2	1161.2	1140.3	1119.3	1098.5	1077.6	1056.9
115°	1054.6	1074.8	1096.0	1087.7	1079.4	1071.1	1062.8	1054.7	1046.3	1038.1	1030.0
117.5°	930.0	939.6	950.2	948.6	947.1	945.5	944.1	942.6	941.2	939.8	938.4
120°	799.8	801.7	804.6	805.6	806.7	807.8	809.0	810.0	811.1	812.3	813.5
122.5°	689.7	686.9	685.1	686.1	687.2	688.0	689.0	690.0	691.1	692.1	693.3
125°	610.8	605.8	602.1	600.7	599.4	597.9	596.4	594.9	593.8	592.3	591.1
127.5°	553.3	547.8	543.8	540.5	537.3	533.8	530.5	527.1	524.0	520.5	517.4
130°	512.7	507.4	503.9	499.6	495.7	491.3	487.2	483.0	478.8	474.6	470.5
132.5°	483.1	478.0	474.8	470.8	466.9	462.9	458.9	454.7	450.7	446.7	442.8
135°	463.5	459.0	456.5	452.8	449.3	445.6	441.9	438.3	434.7	430.9	427.4
137.5°	446.3	441.9	439.8	436.8	434.1	431.1	428.3	425.3	422.3	419.3	416.4
140°	431.4	426.9	424.6	423.0	421.4	419.6	418.1	416.3	414.7	413.0	411.3
142.5°	419.9	415.5	413.7	412.6	411.7	410.5	409.7	408.6	407.7	406.4	405.4
145°	408.2	403.3	401.1	401.0	401.1	400.9	400.8	400.7	400.7	400.4	400.3
147.5°	399.9	395.0	392.8	393.1	393.3	393.4	393.8	393.8	394.2	394.2	394.4
150°	390.7	385.2	382.7	383.2	383.5	384.1	384.5	385.1	385.6	386.0	386.5
152.5°	382.8	376.2	373.4	373.9	374.5	375.0	375.6	376.2	376.9	377.5	378.0
155°	376.2	369.1	366.1	366.2	366.4	366.7	367.0	367.3	367.7	368.0	368.4
157.5°	372.1	364.7	361.8	361.7	361.8	361.9	362.0	362.1	362.2	362.4	362.8
160°	369.3	361.9	359.1	359.0	359.1	359.1	359.1	359.1	359.3	359.5	359.8
162.5°	366.6	359.5	356.8	356.6	356.5	356.5	356.6	356.5	356.7	356.7	357.0
165°	364.7	358.4	356.1	356.1	356.3	356.3	356.5	356.6	357.0	357.2	357.5
167.5°	365.9	360.5	358.6	358.3	358.1	357.8	357.8	357.4	357.4	357.3	357.3
170°	365.0	360.7	359.0	359.0	359.2	359.2	359.2	359.2	359.3	359.3	359.5
172.5°	364.8	361.6	360.4	360.6	361.0	361.2	361.5	361.8	362.2	362.4	362.8
175°	365.3	363.3	362.8	362.8	363.0	363.1	363.3	363.4	363.6	363.8	364.1
177.5°	367.1	366.4	366.1	366.1	366.1	366.1	366.1	366.1	366.1	366.2	366.2
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23601.6	23629.1	23627.0	23652.7	23651.4	23675.6	23670.7	23691.6	23686.9	23704.7	23694.2
5°	24375.8	24428.1	24445.4	24492.6	24502.4	24544.6	24545.5	24579.1	24575.0	24601.3	24587.3
7.5°	25108.1	25156.9	25180.1	25216.8	25235.2	25265.6	25277.4	25302.5	25308.4	25323.1	25322.7
10°	*25169.9*	*25169.7*	*25181.2*	*25176.0*	*25186.3*	*25180.4*	*25192.9*	*25188.4*	*25206.9*	*25202.1*	*25216.0*
12.5°	24338.3	24255.7	24225.6	24151.5	24135.3	24071.6	24076.2	24035.4	24055.1	24030.0	24072.7
15°	22551.0	22359.5	22264.8	22098.4	22046.2	21914.6	21903.9	21816.5	21840.1	21794.4	21861.2
17.5°	19909.8	19608.4	19443.0	19199.9	19103.4	18917.3	18879.9	18767.5	18784.9	18728.2	18808.9
20°	16760.8	16396.5	16187.9	15906.7	15781.4	15559.6	15500.7	15374.8	15390.6	15334.2	15425.5
22.5°	13575.9	13194.7	12959.0	12664.4	12504.3	12295.7	12233.0	12106.6	12113.8	12060.9	12148.7
25°	10649.1	10283.6	10054.9	9787.3	9648.3	9457.0	9391.2	9277.7	9284.2	9240.5	9319.3
27.5°	8237.9	7937.9	7746.6	7522.3	7397.7	7240.4	7176.3	7080.8	7080.5	7048.6	7114.4
30°	6437.4	6187.1	6015.4	5820.0	5703.0	5561.1	5499.1	5413.8	5410.0	5387.3	5439.6
32.5°	5040.4	4817.8	4661.1	4489.1	4384.1	4262.3	4203.7	4135.1	4128.7	4108.2	4151.2
35°	3918.3	3730.8	3596.0	3451.3	3462.0	3282.3	3312.2	3172.6	3134.8	3126.5	3158.5
37.5°	3028.4	2883.1	2773.7	2665.3	2591.9	2516.0	2475.1	2438.3	2434.1	2430.6	2453.0
40°	2370.3	2268.8	2189.2	2114.8	2064.2	2017.9	1992.3	1972.2	1967.4	1964.7	1978.2
42.5°	1918.4	1849.9	1798.6	1753.2	1722.5	1697.3	1683.3	1672.0	1668.3	1668.4	1676.4
45°	1620.8	1579.3	1546.2	1518.0	1498.4	1507.0	1481.6	1494.9	1477.3	1495.5	1483.6
47.5°	1427.3	1392.0	1371.5	1351.5	1339.6	1330.1	1330.5	1330.6	1334.3	1334.9	1338.8
50°	1278.1	1257.6	1243.4	1230.7	1224.4	1219.4	1221.1	1222.5	1226.1	1226.4	1229.2
52.5°	1167.6	1154.1	1145.6	1137.6	1134.9	1132.0	1133.3	1132.7	1134.3	1133.5	1135.8
55°	1077.7	1071.3	1068.7	1065.7	1066.2	1065.4	1065.9	1063.0	1061.3	1059.1	1061.1
57.5°	1004.0	1003.1	1004.8	1006.1	1009.5	1010.7	1011.4	1008.1	1005.0	1002.2	1003.9
60°	947.1	948.4	953.0	956.6	961.5	963.8	965.1	963.2	960.9	958.6	960.0
62.5°	891.0	893.2	898.5	902.6	908.5	911.5	914.9	915.1	916.0	915.1	916.1
65°	825.9	828.6	833.5	836.9	842.3	845.0	848.5	849.1	851.0	850.6	852.2
67.5°	776.4	778.9	783.0	786.2	791.1	793.8	796.9	797.0	797.7	797.6	799.1
70°	723.7	724.9	728.5	731.2	736.1	738.9	742.4	743.5	745.6	746.0	747.8
72.5°	667.5	666.9	669.1	670.3	674.0	676.2	680.7	683.1	686.7	687.7	688.9
75°	606.2	605.6	608.2	609.3	612.4	614.6	619.6	622.8	628.4	630.8	630.2
77.5°	535.2	536.5	541.3	544.0	548.1	551.1	557.5	562.6	572.9	577.5	572.8
80°	455.9	457.2	462.2	464.7	470.3	473.7	480.9	486.9	496.2	498.1	495.6
82.5°	358.4	358.8	363.3	365.2	372.3	377.5	386.6	391.4	397.1	396.2	395.5
85°	244.4	247.7	253.4	259.0	267.7	276.0	284.6	291.7	286.7	294.6	285.7
87.5°	130.6	130.3	137.9	136.7	148.8	155.9	163.3	166.9	170.9	170.1	170.2
90°	46.1	43.7	43.2	40.6	40.8	38.1	38.9	36.3	37.4	34.4	38.9
92.5°	49.0	47.0	44.6	42.6	40.3	38.2	35.9	33.8	31.5	29.4	31.5
95°	60.0	57.9	56.0	53.8	51.9	49.8	47.9	45.8	43.8	41.8	44.3
97.5°	73.9	72.7	71.6	70.4	69.2	68.0	66.8	65.7	64.4	63.3	65.0
100°	83.4	83.4	83.4	83.4	83.2	83.2	83.2	83.2	83.2	83.2	84.6
102.5°	159.2	155.3	151.5	147.5	143.7	139.8	136.0	132.1	128.2	124.4	130.1
105°	359.0	344.0	328.7	313.7	298.4	283.4	268.2	253.2	238.0	223.0	238.6
107.5°	666.1	638.5	610.9	583.4	555.8	528.3	500.7	473.3	445.7	418.2	442.9
110°	929.5	900.1	870.9	841.7	812.5	783.1	754.0	724.8	695.6	666.4	689.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1036.0	1017.0	998.1	979.3	960.4	941.6	922.7	904.0	885.2	866.4	877.8
115°	1021.8	1012.8	1003.7	994.8	985.9	976.8	967.8	959.0	950.0	941.1	941.8
117.5°	937.0	933.9	930.9	927.9	924.8	921.9	918.9	916.1	913.2	910.4	904.0
120°	814.9	815.7	816.6	817.5	818.5	819.7	820.6	821.7	822.9	824.0	815.5
122.5°	694.5	696.5	698.7	701.0	703.2	705.6	707.9	710.4	713.0	715.5	706.9
125°	589.7	591.7	593.9	596.1	598.1	600.6	602.9	605.4	607.9	610.5	603.3
127.5°	514.2	514.8	515.4	516.3	517.0	518.0	519.0	520.2	521.3	522.6	518.0
130°	466.3	465.4	464.6	463.8	462.9	462.4	461.9	461.4	461.0	460.7	458.8
132.5°	438.7	436.7	434.8	433.0	431.2	429.6	427.9	426.6	425.2	423.9	423.3
135°	423.6	421.0	418.4	415.8	413.3	411.1	408.9	406.8	404.8	402.8	403.2
137.5°	413.5	410.9	408.3	405.8	403.2	401.1	398.7	396.6	394.6	392.6	393.4
140°	409.7	407.0	404.4	401.9	399.6	397.3	395.0	393.0	390.9	389.1	389.5
142.5°	404.2	402.0	399.5	397.4	395.1	393.1	391.0	389.2	387.2	385.6	386.1
145°	400.2	398.5	396.7	395.0	393.4	391.9	390.2	389.0	387.6	386.6	386.8
147.5°	394.5	393.3	391.9	390.7	389.3	388.4	387.2	386.2	385.2	384.4	384.5
150°	386.9	386.1	385.2	384.4	383.6	382.9	382.2	381.6	381.0	380.4	380.3
152.5°	378.6	377.9	377.1	376.4	375.7	375.1	374.5	373.9	373.4	372.9	372.8
155°	368.8	368.4	368.0	367.8	367.4	367.3	367.0	367.0	366.7	366.6	366.7
157.5°	363.0	362.9	362.7	362.8	362.7	362.8	362.7	362.9	362.8	363.0	363.1
160°	360.1	359.9	359.6	359.6	359.4	359.2	359.1	359.1	359.0	359.0	359.3
162.5°	357.2	357.4	357.5	357.6	357.9	358.1	358.3	358.7	358.9	359.2	359.5
165°	357.9	357.8	357.6	357.5	357.6	357.7	357.7	357.9	357.9	358.1	358.5
167.5°	357.2	357.4	357.5	357.8	358.1	358.3	358.6	359.0	359.4	359.9	360.3
170°	359.5	359.5	359.5	359.5	359.5	359.7	359.8	359.8	359.9	360.2	360.5
172.5°	363.1	363.1	362.9	363.1	362.9	363.1	363.1	363.1	363.1	363.2	363.4
175°	364.1	364.5	364.7	364.9	365.0	365.1	365.3	365.5	365.6	365.9	365.9
177.5°	366.2	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.4
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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

Scaled Data Report

TEST NUMBER: P1444670
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23711.7	23699.8	23712.0	23699.7	23712.0	23697.2	23707.2	23691.2	23695.3	23678.7	23683.0
5°	24608.3	24589.4	24599.5	24574.9	24577.4	24544.6	24544.0	24505.9	24495.8	24452.3	24433.2
7.5°	25333.2	25327.1	25330.5	25314.8	25312.9	25290.5	25279.8	25248.3	25228.4	25188.4	25161.0
10°	*25218.5*	*25237.0*	*25241.8*	*25260.6*	*25264.5*	*25283.1*	*25287.1*	*25305.8*	*25309.6*	*25323.4*	*25323.6*
12.5°	24070.7	24133.4	24148.4	24226.0	24258.6	24347.3	24394.8	24492.6	24550.6	24648.1	24708.0
15°	21859.4	21968.0	22011.3	22162.6	22246.4	22423.1	22534.1	22737.1	22880.3	23095.7	23249.5
17.5°	18816.0	18967.7	19036.2	19241.5	19375.4	19636.3	19824.2	20133.6	20370.5	20714.4	20986.9
20°	15441.1	15609.8	15702.8	15936.9	16095.0	16399.6	16634.4	17014.6	17331.7	17767.4	18139.9
22.5°	12176.2	12336.7	12439.9	12678.1	12856.0	13173.9	13436.2	13837.5	14192.7	14683.7	15130.4
25°	9349.0	9496.1	9589.4	9804.8	9971.9	10264.0	10514.5	10900.4	11248.0	11740.5	12198.6
27.5°	7147.2	7270.4	7360.3	7544.0	7691.4	7939.1	8154.3	8473.2	8772.7	9198.8	9606.7
30°	5471.8	5580.9	5668.4	5828.5	5965.1	6179.9	6369.1	6636.9	6884.9	7223.8	7548.4
32.5°	4181.4	4275.3	4353.3	4493.4	4617.3	4810.7	4981.2	5216.0	5428.7	5716.3	5983.3
35°	3188.1	3373.1	3360.0	3553.2	3584.3	3723.0	3875.1	4080.4	4268.8	4513.4	4740.6
37.5°	2474.5	2526.5	2582.3	2667.6	2757.4	2883.6	3012.1	3263.0	3355.1	3539.8	3727.9
40°	1995.4	2030.5	2067.4	2125.1	2187.9	2276.9	2370.4	2490.1	2612.8	2762.6	2915.6
42.5°	1687.0	1706.9	1730.3	1764.2	1803.0	1859.4	1921.9	2003.1	2088.4	2193.8	2301.5
45°	1507.2	1497.7	1504.7	1523.0	1546.3	1580.5	1620.1	1670.4	1725.9	1794.1	1866.9
47.5°	1339.6	1343.5	1345.5	1355.4	1367.9	1390.9	1414.9	1449.0	1514.8	1534.9	1574.6
50°	1229.0	1230.8	1230.2	1235.2	1241.5	1256.5	1272.0	1295.1	1318.2	1348.7	1377.9
52.5°	1136.2	1138.8	1138.4	1141.7	1145.1	1154.6	1164.4	1180.8	1195.8	1215.2	1232.0
55°	1063.0	1066.5	1067.9	1070.7	1072.3	1077.3	1081.1	1089.0	1095.4	1106.4	1116.6
57.5°	1006.6	1011.4	1013.8	1014.7	1012.7	1012.4	1011.1	1012.8	1014.1	1020.0	1025.7
60°	962.3	966.2	966.8	966.2	962.5	959.9	955.7	954.4	953.8	956.6	959.8
62.5°	915.8	917.2	916.3	915.1	911.0	908.4	904.1	902.5	901.0	903.1	904.7
65°	851.6	852.8	851.6	850.9	847.2	845.2	841.5	840.3	838.2	838.7	838.4
67.5°	799.4	800.7	799.7	798.7	796.1	794.9	792.2	790.5	787.9	787.1	785.3
70°	747.5	748.4	747.0	746.0	743.0	741.9	739.4	738.8	736.9	736.4	734.5
72.5°	687.7	687.8	685.6	685.0	682.9	682.8	681.7	682.7	682.6	683.7	683.2
75°	626.5	625.6	623.0	622.5	620.9	621.7	620.6	622.0	622.2	624.5	624.7
77.5°	565.2	562.0	557.1	554.6	551.3	551.0	549.0	550.4	549.9	552.5	553.6
80°	487.8	483.9	477.6	474.5	470.6	470.0	468.2	470.0	469.1	472.1	474.4
82.5°	389.4	386.0	379.4	377.0	372.5	372.9	371.1	372.9	372.7	377.2	379.8
85°	288.1	285.8	279.0	273.0	266.4	262.4	258.6	258.0	256.8	258.6	260.2
87.5°	166.4	164.3	159.0	155.5	143.8	144.4	139.7	139.5	138.3	137.3	139.7
90°	38.9	43.0	43.1	46.7	47.3	51.4	52.2	56.2	56.8	60.9	62.0
92.5°	33.8	35.9	38.1	40.3	42.5	44.6	46.9	49.0	53.7	58.3	63.1
95°	46.8	49.4	51.9	54.4	56.9	59.4	61.9	64.4	71.3	78.2	85.0
97.5°	66.7	68.3	70.0	71.6	73.3	74.9	76.6	78.3	85.8	93.2	100.6
100°	85.9	87.2	88.6	90.0	91.3	92.7	94.0	95.4	109.8	124.0	138.3
102.5°	135.8	141.5	147.2	152.9	158.7	164.4	170.1	175.8	208.6	241.3	274.0
105°	254.2	269.7	285.4	301.1	316.7	332.3	348.0	363.6	416.0	468.4	520.9
107.5°	467.6	492.2	516.9	541.6	566.3	591.0	615.7	640.5	691.5	742.8	793.8
110°	713.4	737.0	760.4	784.0	807.5	831.1	854.6	878.3	909.1	939.6	970.4

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	889.3	900.7	912.2	923.7	935.2	946.7	958.2	969.8	985.2	1000.4	1015.7
115°	942.6	943.3	944.1	944.8	945.6	946.4	947.4	948.3	953.2	958.0	962.8
117.5°	897.7	891.4	885.3	878.9	872.8	866.7	860.7	854.6	853.6	852.6	851.8
120°	807.2	798.7	790.4	781.9	773.7	765.4	757.2	749.1	744.9	740.8	736.7
122.5°	698.6	690.2	681.9	673.5	665.3	657.2	649.2	641.2	638.2	635.3	632.5
125°	596.3	589.3	582.4	575.4	568.7	562.0	555.4	548.9	548.8	548.4	548.5
127.5°	513.7	509.5	505.3	501.3	497.3	493.2	489.4	485.5	487.4	489.1	491.0
130°	456.8	455.0	453.3	451.5	450.0	448.5	447.0	445.6	448.8	451.9	455.2
132.5°	423.1	422.8	422.6	422.4	422.5	422.5	422.8	422.7	426.4	430.1	433.8
135°	403.6	404.1	404.9	405.6	406.5	407.3	408.3	409.2	412.9	416.3	419.8
137.5°	394.2	395.1	396.2	397.1	398.4	399.6	400.9	402.2	404.9	407.7	410.5
140°	390.3	390.9	391.8	392.7	393.7	394.5	395.8	396.7	399.1	401.3	403.4
142.5°	386.9	387.3	388.2	389.1	390.1	390.9	391.9	392.7	394.4	396.0	397.9
145°	387.4	387.8	388.5	389.0	389.6	390.3	391.1	391.8	393.0	393.9	395.0
147.5°	384.9	385.2	385.6	386.0	386.6	387.0	387.5	387.8	388.6	389.2	390.0
150°	380.5	380.6	380.8	380.9	381.2	381.5	381.9	382.0	382.7	383.2	383.9
152.5°	372.9	372.9	373.1	373.3	373.6	373.7	373.9	374.2	374.8	375.2	375.8
155°	367.0	367.3	367.7	368.0	368.4	368.6	369.0	369.2	369.6	370.0	370.4
157.5°	363.5	363.7	364.1	364.3	364.7	364.9	365.3	365.5	366.0	366.3	366.6
160°	359.8	360.4	360.8	361.3	361.7	362.2	362.7	363.2	363.6	363.9	364.2
162.5°	359.8	360.2	360.6	360.8	361.1	361.4	361.7	362.1	362.7	363.1	363.7
165°	359.0	359.5	360.1	360.4	360.9	361.4	361.9	362.4	362.7	363.1	363.3
167.5°	360.8	361.2	361.8	362.2	362.6	363.1	363.6	364.0	364.4	364.6	364.9
170°	360.9	361.4	361.8	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2
172.5°	363.8	364.1	364.5	364.7	365.0	365.5	365.8	366.1	366.5	366.9	367.2
175°	365.9	365.9	366.0	366.1	366.2	366.2	366.3	366.4	366.5	366.6	366.7
177.5°	366.6	366.8	367.0	367.1	367.2	367.4	367.6	367.8	367.8	367.8	367.8
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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

Scaled Data Report

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23666.4	23667.4	23648.3	23647.3	23629.4	23627.1	23609.8	23604.4	23590.3	23585.2	23570.7
5°	24384.4	24361.2	24307.4	24275.9	24222.8	24187.6	24130.1	24092.7	24037.1	23995.3	23939.6
7.5°	25110.6	25074.5	25014.2	24965.4	24891.7	24832.8	24746.6	24676.0	24582.6	24501.8	24403.7
10°	*25323.6*	*25318.1*	*25302.7*	*25280.3*	*25246.0*	*25207.5*	*25148.8*	*25087.6*	*25005.8*	*24916.9*	*24807.9*
12.5°	24799.6	24856.2	24933.3	24979.1	25034.7	25059.1	25081.9	25076.1	25061.2	25016.1	24953.1
15°	23472.1	23631.1	23841.6	24004.8	24192.6	24329.0	24479.7	24573.5	24667.2	24710.4	24736.9
17.5°	21360.3	21661.5	22038.9	22351.8	22712.8	23002.8	23320.7	23559.9	23806.0	23982.3	24141.7
20°	18647.8	19084.0	19618.0	20089.8	20638.3	21114.9	21637.2	22066.0	22508.2	22854.1	23181.3
22.5°	15705.7	16223.7	16869.3	17467.3	18174.4	18809.9	19526.9	20150.9	20802.5	21346.8	21873.1
25°	12812.5	13380.7	14086.6	14753.8	15554.6	16293.8	17144.1	17921.8	18764.0	19495.1	20217.4
27.5°	10170.7	10728.5	11449.2	12159.3	13006.2	13793.9	14704.9	15561.8	16520.7	17404.9	18309.4
30°	7999.3	8472.4	9118.6	9806.5	10641.7	11443.2	12364.2	13245.4	14243.0	15208.4	16227.3
32.5°	6337.6	6698.1	7206.1	7787.8	8558.4	9321.3	10198.3	11049.1	12031.4	13006.6	14066.3
35°	5033.2	5314.3	5701.7	6155.6	6808.2	7466.0	8241.6	9015.2	9931.7	10857.1	11887.1
37.5°	3969.0	4197.1	4500.4	4841.4	5364.8	5904.6	6540.6	7182.0	7978.4	8798.7	9732.1
40°	3099.3	3284.0	3520.2	3774.5	4169.7	4585.6	5077.5	5574.9	6214.6	6885.1	7657.6
42.5°	2434.8	2571.0	2737.8	2923.6	3292.5	3513.2	3846.8	4206.5	4676.9	5163.6	5744.4
45°	1955.3	2048.3	2164.0	2288.6	2459.8	2647.0	2875.5	3115.1	3561.9	3781.0	4134.3
47.5°	1632.9	1695.3	1768.9	1847.4	1948.4	2057.3	2192.8	2331.3	2510.4	2696.1	2913.8
50°	1415.8	1479.2	1504.4	1545.1	1603.6	1665.8	1742.2	1818.5	1914.6	2012.0	2124.0
52.5°	1254.5	1275.2	1302.8	1328.6	1364.8	1435.6	1458.5	1498.5	1552.4	1605.0	1663.8
55°	1131.5	1144.9	1162.8	1178.4	1200.4	1221.2	1251.4	1278.0	1314.0	1345.7	1384.7
57.5°	1035.7	1044.2	1056.7	1067.0	1081.0	1092.9	1110.6	1125.0	1145.6	1163.6	1187.4
60°	966.1	971.8	980.2	986.8	995.8	1002.0	1010.8	1017.6	1028.5	1037.6	1050.8
62.5°	909.2	912.2	917.6	921.5	927.3	930.4	935.1	938.0	944.1	948.6	956.0
65°	841.1	841.7	845.3	847.0	851.5	853.2	857.0	858.3	863.3	866.7	873.2
67.5°	785.1	783.6	783.7	782.3	783.0	781.6	782.0	780.6	782.6	783.7	788.6
70°	734.1	731.9	731.2	728.9	728.1	725.7	725.0	722.9	722.6	721.9	723.7
72.5°	684.4	683.8	683.9	682.3	682.1	680.5	680.6	679.5	680.7	681.2	683.4
75°	627.2	627.4	628.4	627.0	627.5	626.0	626.6	625.2	625.9	625.7	627.9
77.5°	557.6	559.2	562.2	561.6	562.6	561.1	561.7	559.9	560.4	559.2	560.1
80°	479.3	482.7	486.8	486.7	488.3	487.3	488.8	487.1	487.8	485.7	485.1
82.5°	386.3	389.2	393.6	393.8	397.6	398.3	402.5	402.3	405.0	403.3	402.1
85°	264.1	266.1	269.9	272.0	275.9	278.3	282.4	284.1	281.2	286.5	282.2
87.5°	137.9	143.0	140.2	146.9	145.3	152.0	150.6	156.8	155.6	161.0	160.3
90°	67.1	68.5	73.8	75.5	81.6	83.9	85.5	82.7	84.0	81.5	82.9
92.5°	67.6	72.5	77.3	81.9	86.6	91.4	87.0	82.6	78.2	74.0	69.5
95°	91.9	98.8	105.7	112.6	119.4	126.3	118.9	111.6	104.3	96.9	89.5
97.5°	108.0	115.3	122.7	130.1	137.6	145.0	136.3	127.5	118.8	110.1	101.5
100°	152.6	166.9	181.2	195.4	209.7	223.9	207.7	191.5	175.3	159.0	142.8
102.5°	306.9	339.6	372.4	405.2	437.9	470.7	436.2	401.8	367.3	332.8	298.3
105°	573.3	625.8	678.2	730.6	783.0	835.6	779.7	723.7	667.8	611.9	555.9
107.5°	845.0	896.1	947.4	998.4	1049.7	1100.9	1044.2	987.5	930.8	873.9	817.2
110°	1001.2	1031.9	1062.7	1093.4	1124.1	1155.0	1113.6	1072.2	1030.8	989.3	948.0

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Scaled Data Report

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1031.1	1046.6	1062.0	1077.5	1092.9	1108.3	1078.7	1049.2	1019.6	990.0	960.2
115°	967.8	972.7	977.7	982.5	987.4	992.4	972.4	952.4	932.6	912.6	892.5
117.5°	850.9	850.1	849.2	848.5	847.6	846.8	835.5	824.4	813.2	801.9	790.8
120°	732.5	728.4	724.3	720.2	716.1	711.9	707.3	702.5	697.7	692.9	688.0
122.5°	629.6	626.9	623.9	621.1	618.1	615.2	613.5	611.7	609.7	607.8	605.9
125°	548.3	548.2	548.1	548.0	547.7	547.6	546.6	545.7	544.7	543.8	542.8
127.5°	492.7	494.7	496.3	498.1	499.8	501.5	501.3	501.0	500.7	500.5	500.2
130°	458.2	461.5	464.6	467.6	470.6	473.8	473.1	472.7	472.1	471.6	471.0
132.5°	437.4	441.0	444.6	448.3	451.8	455.3	454.6	454.0	453.1	452.6	451.8
135°	423.2	426.8	430.1	433.5	436.7	440.1	439.2	438.4	437.4	436.7	435.8
137.5°	413.2	416.0	418.7	421.4	423.9	426.7	425.6	424.8	423.8	423.1	422.1
140°	405.6	407.7	409.7	412.0	413.9	416.1	414.9	413.8	412.8	411.7	410.4
142.5°	399.4	401.0	402.4	404.1	405.6	407.3	405.6	404.1	402.5	401.0	399.5
145°	396.0	397.1	398.1	399.1	399.9	401.0	399.1	397.4	395.6	393.9	392.1
147.5°	390.6	391.2	391.7	392.3	392.6	393.3	391.6	390.0	388.3	386.5	384.8
150°	384.3	384.9	385.3	385.9	386.3	386.9	385.1	383.4	381.5	379.8	378.0
152.5°	376.3	376.8	377.2	377.7	378.1	378.6	376.8	375.3	373.6	371.8	370.2
155°	370.6	371.1	371.2	371.6	371.7	372.0	370.4	369.2	367.8	366.3	364.8
157.5°	366.9	367.2	367.5	367.7	367.9	368.1	367.0	366.0	364.7	363.8	362.6
160°	364.5	364.7	365.0	365.2	365.5	365.5	364.6	363.9	362.9	361.9	360.9
162.5°	364.0	364.5	364.8	365.2	365.5	365.9	364.8	363.9	362.8	361.7	360.5
165°	363.6	363.9	364.1	364.4	364.5	364.7	363.9	363.2	362.4	361.7	360.9
167.5°	365.1	365.5	365.6	365.9	366.0	366.2	365.5	364.7	363.9	363.1	362.3
170°	365.5	365.7	366.2	366.5	366.8	367.1	366.5	366.0	365.3	364.7	364.0
172.5°	367.5	367.8	368.0	368.3	368.5	368.8	368.2	367.6	367.0	366.3	365.6
175°	366.7	366.8	367.0	367.0	367.0	367.1	366.5	366.1	365.5	365.0	364.6
177.5°	367.8	367.8	367.8	367.7	367.7	367.7	367.3	367.0	366.7	366.3	365.9
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5	23418.5
2.5°	23565.6	23555.4	23548.8	23540.4	23535.3	23528.7	23523.9	23519.9	23516.6	23513.6	23511.3
5°	23897.0	23844.3	23803.5	23759.2	23722.8	23686.6	23658.6	23635.4	23619.5	23607.4	23600.4
7.5°	24318.9	24222.5	24136.7	24046.5	23965.6	23886.0	23817.4	23758.3	23713.9	23685.2	23667.8
10°	*24695.7*	*24566.6*	*24439.0*	*24304.6*	*24177.1*	*24053.5*	*23939.6*	*23839.2*	*23759.8*	*23707.1*	*23676.2*
12.5°	24864.6	24754.6	24624.2	24478.3	24322.2	24164.2	24010.2	23871.4	23754.8	23676.7	23631.5
15°	24715.8	24670.7	24582.3	24469.0	24320.8	24157.4	23976.7	23806.8	23650.4	23549.1	23490.3
17.5°	24231.9	24295.0	24288.2	24244.9	24138.4	24000.9	23816.7	23625.8	23430.3	23294.7	23220.8
20°	23415.4	23613.5	23713.9	23765.5	23723.7	23634.5	23467.7	23274.1	23046.1	22869.2	22761.2
22.5°	22268.0	22617.6	22835.5	22995.0	23028.8	22998.4	22851.1	22666.9	22412.9	22200.2	22040.8
25°	20790.7	21303.0	21647.5	21917.5	22022.3	22049.4	21924.1	21740.9	21457.7	21209.9	20991.0
27.5°	19050.8	19716.5	20176.4	20539.2	20702.9	20773.9	20658.6	20471.6	20136.5	19840.9	19554.8
30°	17092.1	17881.8	18435.4	18870.5	19070.1	19163.9	19041.3	18832.7	18442.8	18087.0	17726.6
32.5°	14995.5	15859.7	16463.0	16935.5	17133.2	17221.5	17061.2	16826.8	16376.2	15957.0	15536.7
35°	12800.4	13672.7	14281.1	14741.0	14906.8	14960.0	14754.9	14484.0	13984.8	13524.7	13066.5
37.5°	10560.6	11372.3	11925.2	12337.9	12440.5	12449.7	12202.6	11903.5	11378.8	10925.1	10468.9
40°	8340.3	9024.7	9471.2	9801.5	9837.1	9805.3	9536.8	9235.7	8744.8	8338.4	7937.9
42.5°	6248.8	6765.4	7083.9	7310.3	7296.8	7234.1	6987.9	6729.1	6324.1	6014.5	5699.4
45°	4456.9	4797.6	4983.9	5116.3	5073.8	5014.0	4822.3	4641.0	4365.7	4165.7	3954.0
47.5°	3096.3	3503.1	3432.3	3691.3	3468.1	3615.5	3308.6	3139.4	2993.3	2887.1	2767.4
50°	2216.6	2309.9	2354.9	2385.7	2369.4	2346.6	2291.6	2242.3	2175.5	2126.9	2070.2
52.5°	1711.9	1758.5	1784.0	1802.5	1798.9	1790.6	1766.6	1744.6	1713.4	1692.8	1667.9
55°	1450.1	1450.7	1497.6	1477.5	1507.3	1472.4	1486.2	1447.5	1453.8	1420.6	1398.3
57.5°	1204.9	1224.1	1232.6	1240.9	1238.6	1237.2	1227.8	1223.2	1212.7	1209.5	1202.0
60°	1059.9	1069.9	1072.0	1075.8	1072.6	1071.3	1064.1	1061.4	1054.4	1053.1	1048.2
62.5°	960.5	965.5	965.5	965.5	961.4	957.4	949.3	945.1	939.1	937.7	934.9
65°	877.5	882.8	883.7	884.7	881.7	878.6	871.4	866.9	860.8	858.3	855.0
67.5°	791.8	797.5	799.4	802.2	800.5	799.9	795.0	793.2	789.1	788.1	785.1
70°	724.5	726.9	726.7	726.6	722.8	719.4	713.8	711.1	706.9	706.0	703.2
72.5°	684.5	686.2	685.1	683.7	678.7	673.7	667.1	662.2	656.7	653.2	649.3
75°	628.2	630.4	629.0	628.0	623.6	620.3	615.0	612.3	608.4	607.3	604.5
77.5°	559.0	560.1	557.9	557.6	554.2	552.1	548.1	547.4	544.6	544.6	542.0
80°	482.0	481.4	477.8	477.1	473.7	472.8	469.7	469.9	467.7	468.6	466.8
82.5°	396.6	394.5	389.7	388.3	384.4	384.1	381.9	383.7	382.3	384.4	383.2
85°	284.3	284.8	282.8	282.8	281.6	282.0	281.8	283.1	283.3	285.2	285.1
87.5°	158.4	160.8	160.3	162.4	162.3	164.7	165.4	168.9	169.3	172.5	172.5
90°	80.3	81.9	79.2	81.1	79.9	82.8	82.3	85.0	83.9	86.3	84.6
92.5°	65.1	60.8	56.5	52.0	49.9	47.5	45.7	43.1	41.2	38.8	36.6
95°	82.1	74.8	67.4	60.0	57.5	54.9	52.3	49.8	47.3	44.8	42.2
97.5°	92.8	84.0	75.3	66.6	64.3	62.2	59.9	57.7	55.5	53.4	51.2
100°	126.5	110.1	94.0	77.6	75.7	74.0	72.1	70.2	68.4	66.5	64.6
102.5°	263.8	229.3	194.7	160.1	153.6	147.0	140.5	133.8	127.3	120.7	114.2
105°	499.9	444.0	388.0	331.9	314.1	296.4	278.6	260.7	242.9	225.2	207.4
107.5°	760.4	703.5	646.7	589.8	557.1	524.2	491.3	458.3	425.5	392.5	359.7
110°	906.6	865.0	823.5	781.9	755.6	729.0	702.6	676.0	649.6	623.0	596.5

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	930.5	900.9	871.2	841.3	829.4	817.4	805.4	793.4	781.4	769.2	757.2
115°	872.4	852.5	832.3	812.1	807.9	803.6	799.4	795.1	790.9	786.5	782.2
117.5°	779.6	768.3	756.9	745.6	746.3	747.0	747.7	748.2	748.8	749.3	749.9
120°	683.2	678.4	673.6	668.7	672.5	675.9	679.6	683.0	686.5	689.8	693.3
122.5°	604.0	602.1	600.2	598.1	602.6	606.9	611.2	615.5	619.7	623.7	627.9
125°	541.9	540.8	539.9	538.7	543.1	547.5	551.9	556.1	560.4	564.4	568.5
127.5°	499.9	499.7	499.3	498.9	502.2	505.2	508.4	511.2	514.3	516.9	519.8
130°	470.3	469.7	469.3	468.7	471.5	474.4	477.2	479.6	482.4	484.7	487.1
132.5°	451.2	450.4	449.8	449.0	451.0	453.0	455.0	456.7	458.5	460.0	461.6
135°	435.0	434.0	433.1	432.1	434.1	435.9	437.7	439.3	441.1	442.5	443.9
137.5°	421.2	420.3	419.4	418.4	420.2	421.8	423.5	424.8	426.2	427.6	428.8
140°	409.4	408.2	407.3	406.0	407.5	408.9	410.4	411.6	413.0	413.9	415.1
142.5°	398.0	396.3	395.0	393.3	394.4	395.4	396.5	397.4	398.3	399.1	399.8
145°	390.3	388.4	386.8	384.9	385.8	386.5	387.4	388.2	388.7	389.2	389.9
147.5°	383.2	381.3	379.5	377.8	378.6	379.1	379.5	380.0	380.6	381.0	381.2
150°	376.2	374.3	372.4	370.5	371.1	371.5	371.9	372.4	372.9	373.1	373.4
152.5°	368.4	366.6	364.9	363.1	363.4	363.8	364.0	364.4	364.7	365.0	365.2
155°	363.3	361.8	360.3	358.8	359.1	359.5	359.7	359.9	360.1	360.3	360.4
157.5°	361.4	360.0	359.0	357.7	357.8	357.9	358.1	357.9	357.9	357.8	357.7
160°	360.0	358.9	357.9	356.8	356.8	356.8	357.0	356.8	356.7	356.5	356.5
162.5°	359.3	358.1	356.9	355.7	355.7	355.7	355.7	355.7	355.6	355.4	355.3
165°	360.1	359.2	358.3	357.3	357.3	357.1	357.0	356.7	356.5	356.2	355.9
167.5°	361.4	360.6	359.7	358.8	358.9	359.0	359.0	358.9	358.8	358.6	358.6
170°	363.4	362.6	362.0	361.2	361.0	360.9	360.7	360.6	360.3	360.1	359.8
172.5°	364.9	364.2	363.5	362.6	362.6	362.5	362.3	362.2	362.1	361.9	361.8
175°	363.9	363.4	362.8	362.2	362.2	362.1	362.0	361.9	361.7	361.6	361.4
177.5°	365.5	365.3	364.7	364.4	364.3	364.3	364.2	364.1	364.1	364.0	363.9
180°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9

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

Scaled Data Report

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	23418.5	23418.5
2.5°	23509.2	23508.0
5°	23596.7	23595.2
7.5°	23663.1	23662.7
10°	*23670.9*	*23675.0*
12.5°	23623.7	23627.0
15°	23485.8	23492.2
17.5°	23222.1	23230.6
20°	22767.8	22776.6
22.5°	22032.2	22035.8
25°	20962.6	20947.5
27.5°	19504.5	19478.4
30°	17651.0	17625.7
32.5°	15440.9	15425.2
35°	12953.2	12943.3
37.5°	10334.1	10313.9
40°	7791.5	7732.3
42.5°	5561.3	5457.5
45°	3843.4	3720.2
47.5°	2683.0	2606.9
50°	2033.7	2009.2
52.5°	1657.1	1651.4
55°	1398.2	1395.7
57.5°	1203.7	1202.8
60°	1050.8	1050.6
62.5°	936.9	937.3
65°	856.6	856.7
67.5°	785.9	785.4
70°	704.3	703.6
72.5°	647.9	647.1
75°	604.5	604.0
77.5°	542.8	541.8
80°	467.9	466.8
82.5°	384.9	383.5
85°	287.1	287.2
87.5°	175.6	175.6
90°	86.7	84.6
92.5°	34.6	32.6
95°	39.7	37.2
97.5°	49.0	46.8
100°	62.8	61.0
102.5°	107.6	101.1
105°	189.6	171.8
107.5°	326.8	293.9
110°	570.0	543.5

TEST NUMBER: P1444670
CATALOG NUMBER: EHBR1-30-UNV-TA-L930-UPL30

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	745.1	733.0
115°	777.6	773.2
117.5°	750.3	750.7
120°	696.4	699.8
122.5°	631.7	635.6
125°	572.4	576.3
127.5°	522.3	524.8
130°	489.1	491.4
132.5°	462.9	464.2
135°	444.9	446.1
137.5°	429.7	430.7
140°	415.8	416.6
142.5°	400.3	400.8
145°	390.2	390.6
147.5°	381.2	381.5
150°	373.5	373.7
152.5°	365.2	365.4
155°	360.4	360.5
157.5°	357.4	357.3
160°	356.2	356.1
162.5°	355.0	354.9
165°	355.5	355.1
167.5°	358.3	358.3
170°	359.6	359.4
172.5°	361.5	361.4
175°	361.4	361.3
177.5°	363.9	363.8
180°	365.9	365.9

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

Metalux

Report Number: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

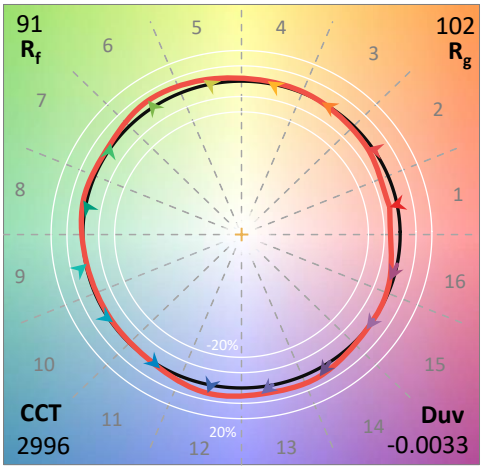
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L930-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	2996
CIE u':	0.2519
CIE v':	0.5169
Duv:	-0.0033
CIE x:	0.4325
CIE y:	0.3945
CIE z:	0.1730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	48.21818
Rf:	91.3
Rg:	102

CRI (Ra):	94.4
R1:	96.8
R2:	98.1
R3:	97.8
R4:	95.6
R5:	96.9
R6:	95.7
R7:	90.9
R8:	83.0
R9:	61.4
R10:	94.4
R11:	95.7
R12:	88.5
R13:	97.3
R14:	97.8
R15:	92.3



Test Conditions

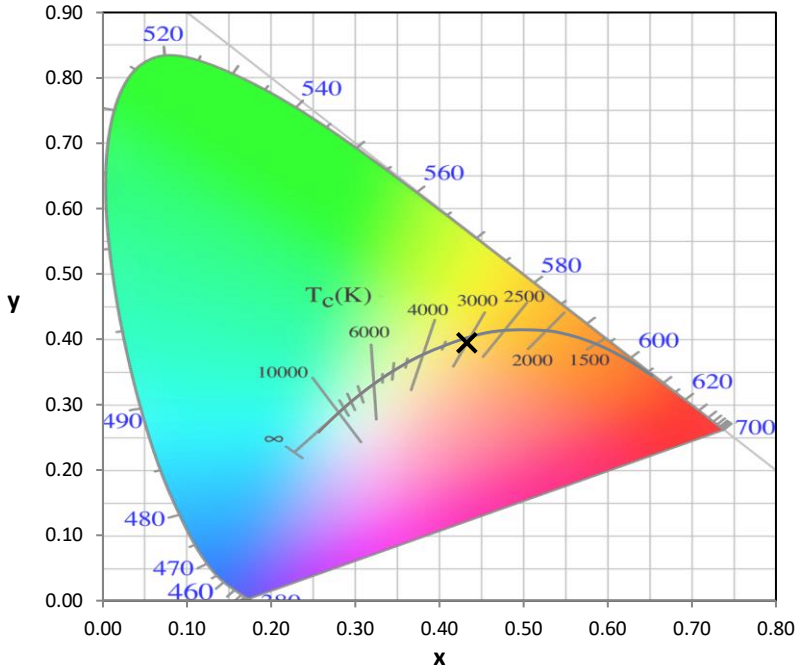
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

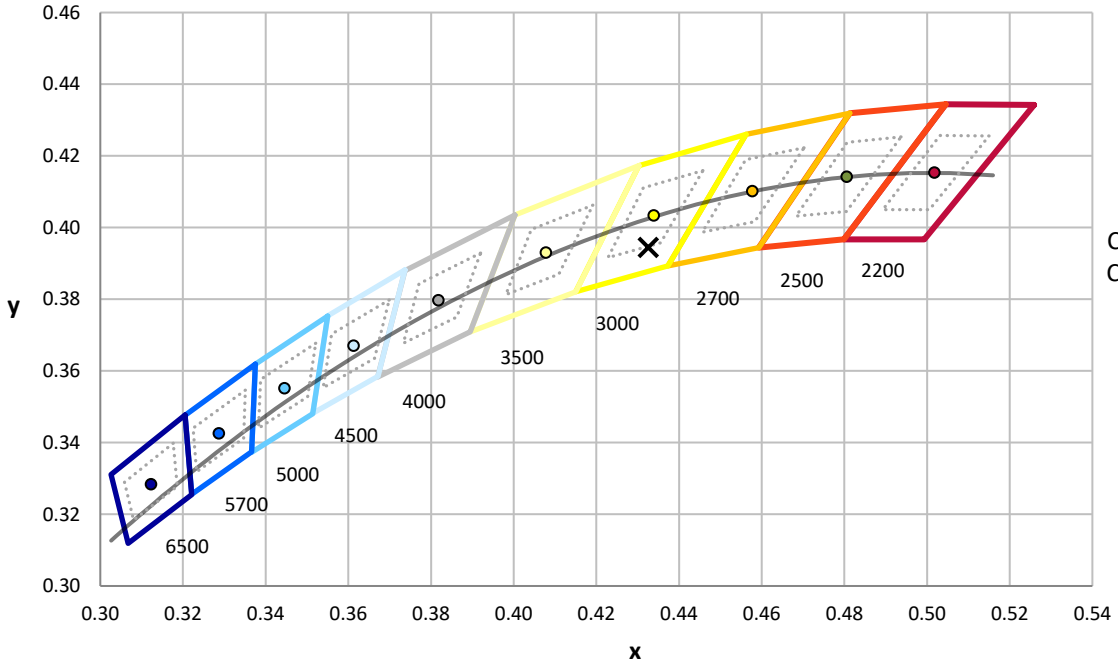
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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

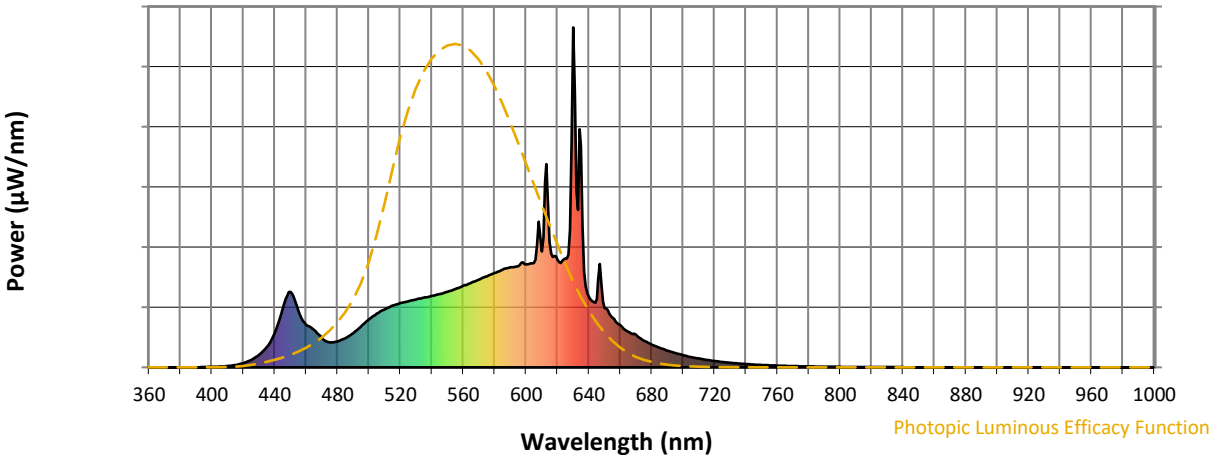


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength

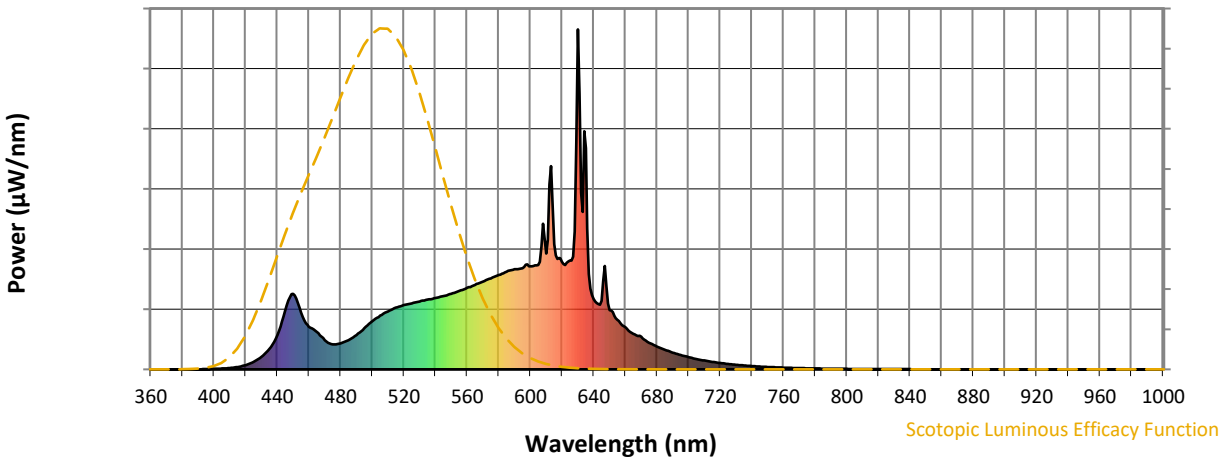


Photopic Lumens: NR

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength

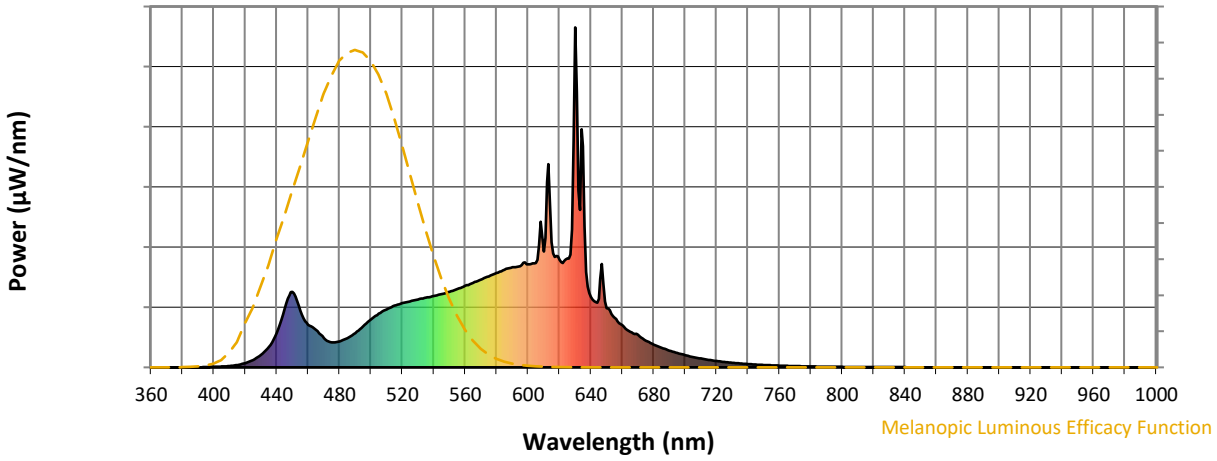


Scotopic Lumens: NR **S/P: 1.44**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.85**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

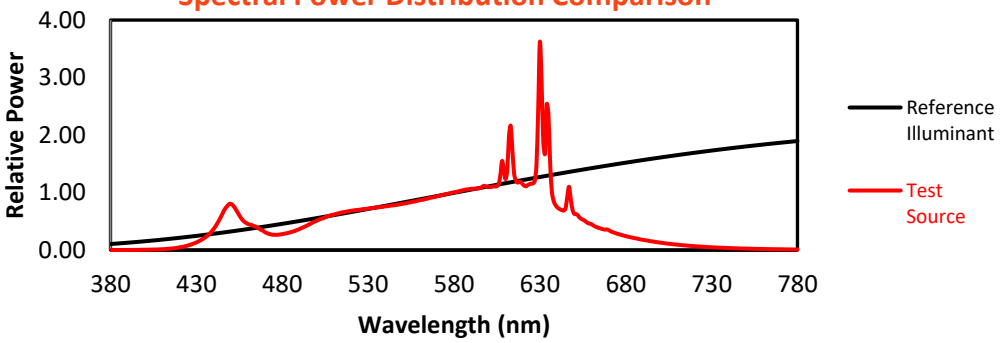
REPORT NUMBER: SP1-2506-472-5

TM-30-18

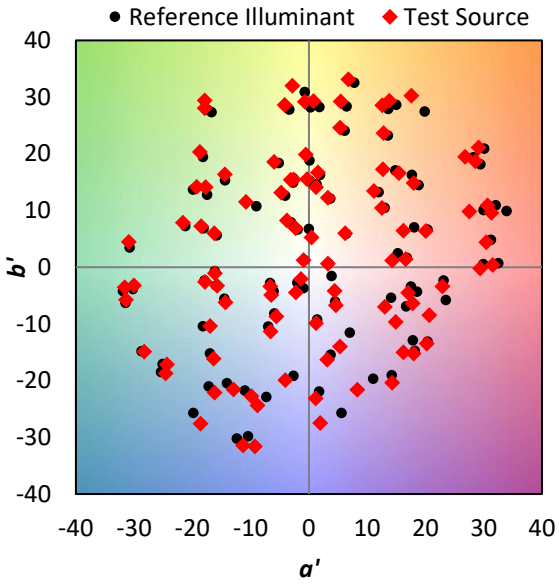
Summary

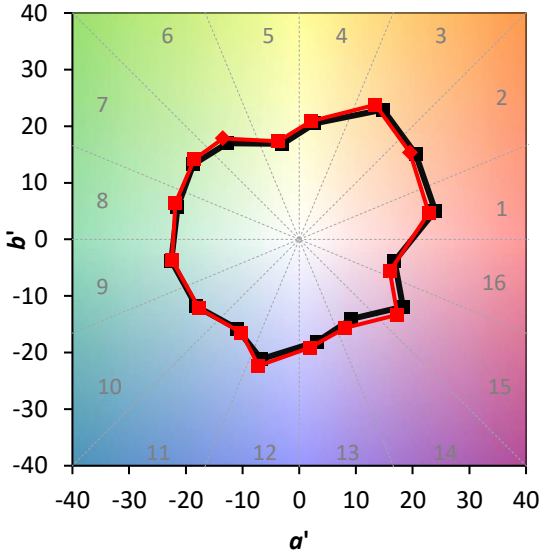
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

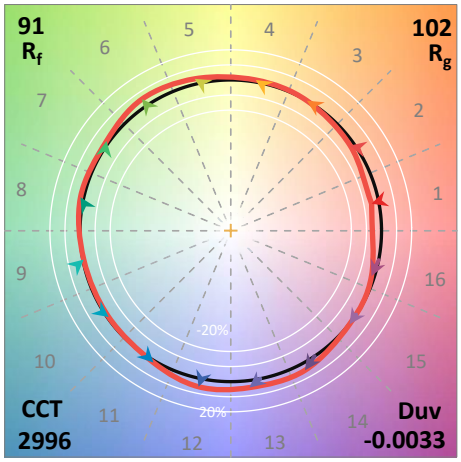
Spectral Power Distribution Comparison

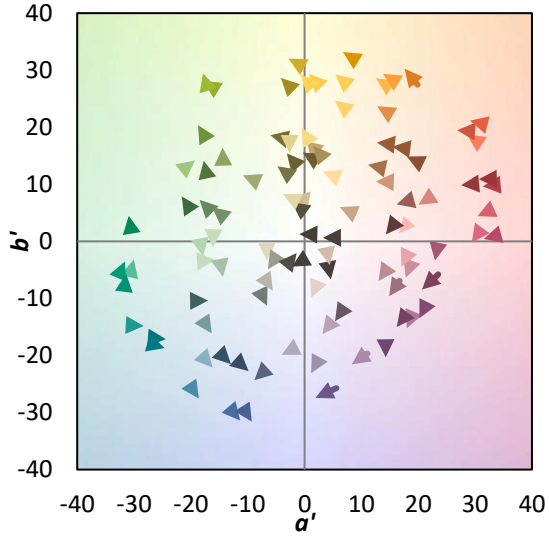


Color Vector Graphics







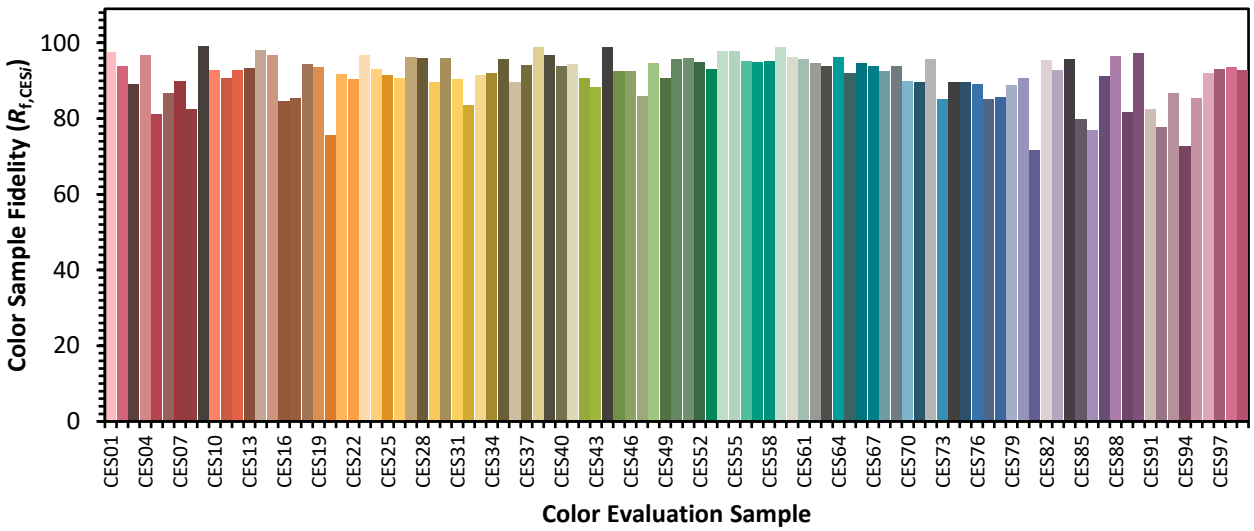


REPORT NUMBER: SP1-2506-472-5

TM-30-18

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

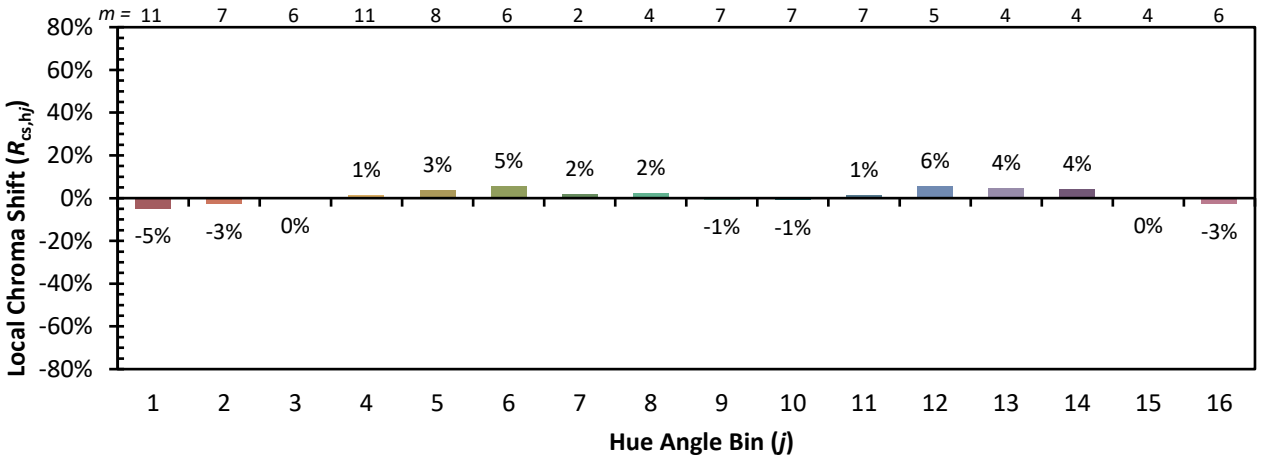
CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	

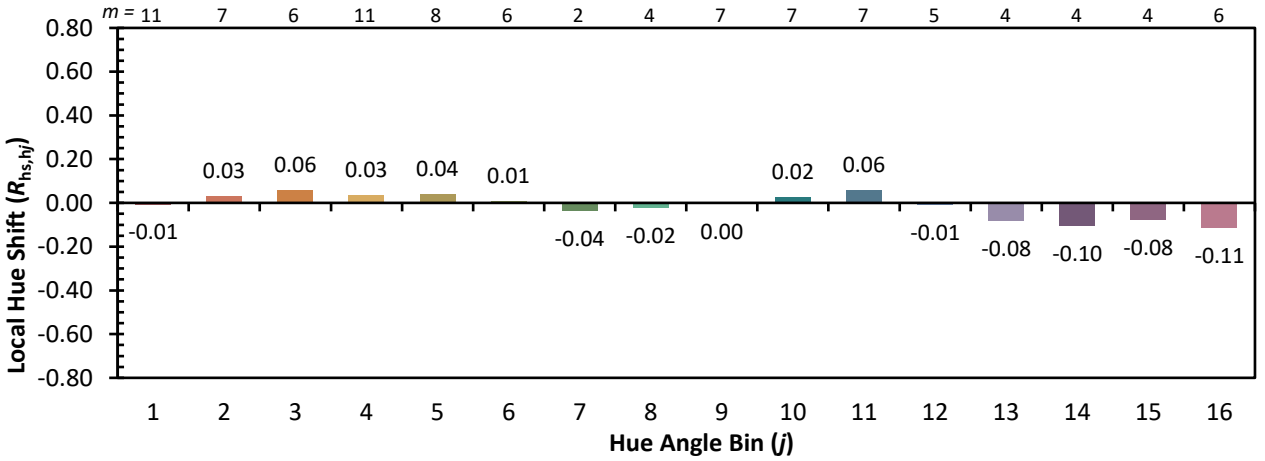


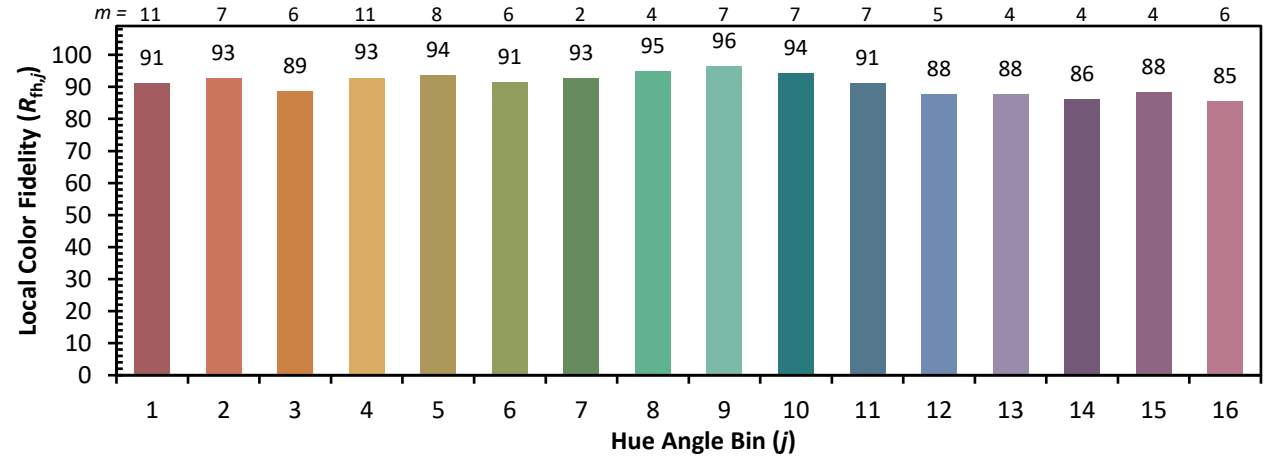
REPORT NUMBER: SP1-2506-472-5

TM-30-18

Color Rendition by Hue-Angle Bin



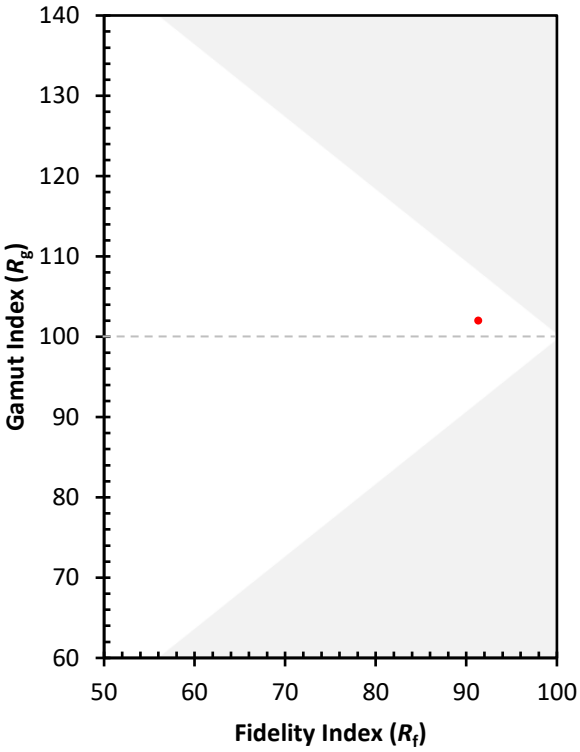


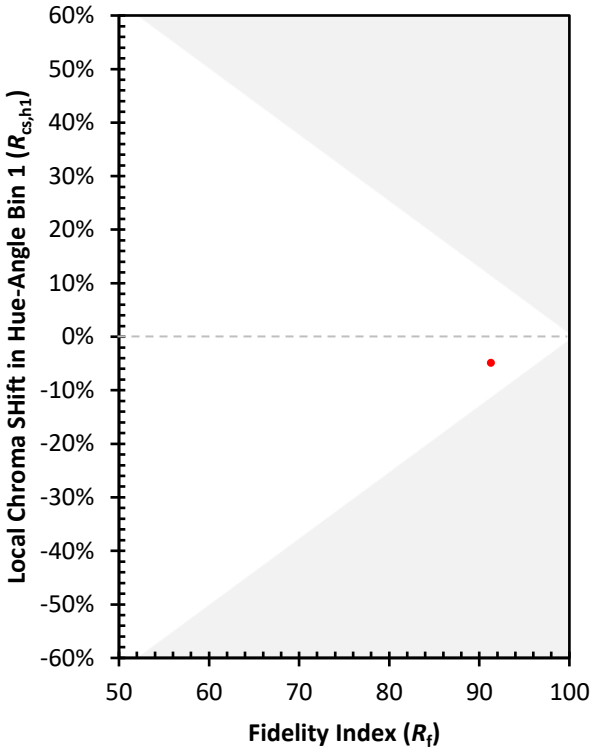


REPORT NUMBER: SP1-2506-472-5

TM-30-18

Measure Comparisons





(END OF REPORT)