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: P1444446

Luminaire Tested: EHBR1-24-UNV-TA-L830-UPL30

Issue Date: 5/1/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444446
	REPORT IS A COMBINATION OF REPORTS P1444338 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-TA-L830-UPL30
Description:	Elevate Round Highbay at, 24000 lumens, 3000K 80CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26019.9 lumens
Efficiency:	N/A
Efficacy:	173.1 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:	Semi-Direct

Input Watts (W):	150.3
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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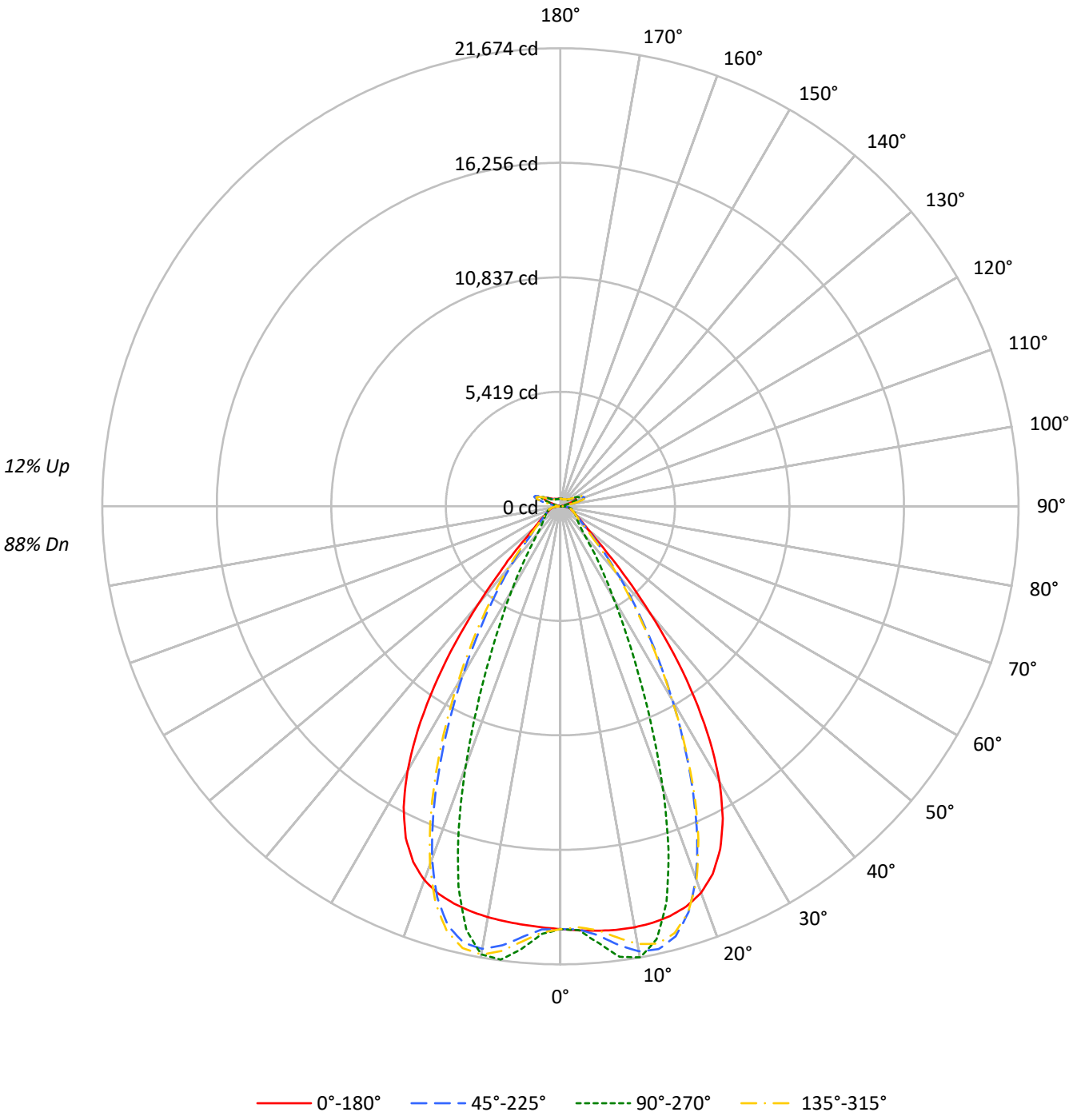
Luminous Intensity Polar Plot



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	109	106	102	100	105	102	100	97	96	94	92	90	89	87	85	84	83	80
2	102	96	91	87	99	93	89	85	88	85	82	84	81	78	79	77	75	72
3	96	88	82	77	93	86	80	76	82	77	73	77	74	71	74	71	68	66
4	90	81	75	70	87	79	73	69	75	71	67	72	68	65	69	65	63	61
5	85	75	68	63	82	73	67	62	70	65	61	67	63	59	64	61	58	56
6	80	70	63	58	77	68	62	57	65	60	56	63	58	55	60	56	53	52
7	75	65	58	53	73	64	57	53	61	56	52	59	54	51	57	53	50	48
8	71	61	54	49	69	59	53	49	57	52	48	55	51	47	54	49	46	45
9	67	57	50	46	66	56	50	45	54	49	45	52	47	44	51	46	43	42
10	64	53	47	43	62	53	46	42	51	45	42	49	45	41	48	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	93954	93954	93954	93954
5°	94408	97161	93088	98434
10°	95197	102012	92914	101337
15°	95664	92473	92751	88750
20°	94674	68889	91576	63739
25°	89613	43569	86652	39531
30°	78284	26182	75252	23927
35°	60248	16429	56782	14553
40°	38112	10305	34869	9684
45°	19644	8029	19318	7897
50°	11517	7141	11164	7030
55°	8823	6756	8496	6696
60°	7466	6902	7148	6813
65°	7012	7207	6743	6961
70°	6851	7548	6509	7263
75°	7325	8004	6929	7650
80°	7581	8862	6874	8090
85°	7137	8551	5770	7323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 30063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1971.7	7.6
10°-20°	5546.6	21.3
20°-30°	6317.2	24.3
30°-40°	4540.5	17.5
40°-50°	2094.1	8.0
50°-60°	1002.1	3.9
60°-70°	731.2	2.8
70°-80°	555.5	2.1
80°-90°	257.7	1.0
90°-100°	83.4	0.3
100°-110°	503.9	1.9
110°-120°	931.4	3.6
120°-130°	563.4	2.2
130°-140°	353.8	1.4
140°-150°	255.8	1.0
150°-160°	174.0	0.7
160°-170°	102.8	0.4
170°-180°	34.8	0.1
0°-30°	13835.5	53.2
0°-40°	18376.0	70.6
0°-60°	21472.2	82.5
0°-90°	23016.6	88.5
90°-120°	1518.7	5.8
90°-150°	2691.8	10.3
90°-180°	3003.0	11.5
0°-180°	26019.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	20007	20007	20007	20007	20007	
5°	20158	20746	19876	21017	20158	1926
15°	20070	19400	19459	18619	20070	5655
25°	17896	8701	17304	7894	17896	8113
35°	11058	3015	10422	2671	11058	6786
45°	3178	1299	3126	1278	3178	2703
55°	1192	913	1148	905	1192	1101
65°	732	752	704	727	732	731
75°	516	564	488	539	516	537
85°	245	294	198	252	245	231
90°	76	94	29	33	76	46
95°	38	43	38	43	38	37
105°	179	233	119	233	179	238
115°	810	987	848	988	810	747
125°	600	638	680	639	600	547
135°	460	416	496	418	460	359
145°	398	394	425	396	398	252
155°	364	369	390	372	364	170
165°	356	358	370	360	356	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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20083.2	20081.6	20081.3	20079.9	20079.5	20079.5	20078.8	20077.2	20076.2	20073.9	20071.2
5°	20157.7	20156.9	20157.4	20157.5	20156.1	20153.0	20148.1	20142.1	20134.6	20127.4	20121.1
7.5°	20215.4	20216.8	20218.6	20218.2	20213.8	20206.5	20196.5	20190.9	20194.1	20205.0	20229.9
10°	*20225.9*	*20234.5*	*20237.8*	*20236.8*	*20228.0*	*20221.8*	*20224.2*	*20245.4*	*20287.6*	*20343.8*	*20420.8*
12.5°	20184.9	20195.4	20195.1	20191.5	20183.1	20191.7	20222.4	20285.5	20375.9	20486.9	20617.1
15°	20069.7	20083.4	20079.5	20075.0	20069.4	20097.6	20158.9	20268.5	20408.2	20564.7	20725.0
17.5°	19846.1	19862.6	19854.7	19849.5	19844.7	19897.7	20003.0	20163.5	20339.5	20516.5	20668.4
20°	19458.3	19469.4	19450.4	19441.4	19449.0	19552.7	19707.9	19912.8	20098.3	20265.7	20369.5
22.5°	18825.5	18839.3	18803.4	18799.3	18843.5	19002.8	19199.2	19428.3	19602.5	19735.2	19775.2
25°	17895.7	17909.2	17866.7	17892.1	17967.3	18184.3	18418.1	18663.2	18811.9	18910.2	18883.1
27.5°	16640.7	16653.0	16612.6	16664.6	16783.4	17068.6	17343.8	17609.7	17742.2	17811.1	17723.7
30°	15057.9	15083.4	15035.8	15108.2	15289.6	15659.9	15975.2	16273.3	16405.4	16457.9	16322.1
32.5°	13177.9	13214.3	13161.8	13269.6	13522.7	13967.5	14325.7	14658.7	14804.9	14864.7	14711.3
35°	11057.7	11109.8	11049.5	11211.3	11523.6	12018.8	12415.5	12787.3	12960.4	13045.2	12890.6
37.5°	8811.2	8861.0	8828.4	9044.2	9387.0	9900.4	10305.3	10706.5	10901.9	11029.2	10907.3
40°	6605.8	6651.3	6676.0	6922.8	7245.3	7729.2	8118.1	8515.0	8733.6	8893.4	8818.2
42.5°	4662.4	4708.3	4792.2	5030.4	5299.3	5699.8	6033.0	6389.3	6598.2	6768.7	6739.6
45°	3178.3	3231.6	3336.7	3531.7	3726.2	4013.5	4258.2	4535.3	4705.9	4862.1	4864.0
47.5°	2227.2	2264.6	2358.5	2491.7	2618.5	2978.2	2993.0	3129.2	3243.9	3360.6	3375.7
50°	1716.4	1739.0	1788.8	1863.0	1934.9	2028.3	2113.7	2212.4	2283.0	2347.0	2362.3
52.5°	1410.8	1425.1	1450.5	1490.7	1532.4	1583.1	1628.8	1683.1	1721.5	1755.8	1762.9
55°	1192.3	1204.2	1242.0	1249.6	1297.2	1306.5	1326.8	1359.8	1382.1	1402.6	1407.8
57.5°	1027.6	1036.1	1044.1	1061.3	1076.0	1097.4	1114.5	1138.2	1152.2	1167.0	1168.4
60°	897.5	903.7	909.5	921.3	931.3	946.1	958.0	974.1	984.2	995.3	996.6
62.5°	800.7	805.2	808.9	816.8	823.9	835.4	844.7	858.2	867.6	876.2	878.2
65°	731.9	735.1	737.7	743.6	749.7	759.5	768.0	779.0	785.9	792.5	793.9
67.5°	671.0	674.1	676.6	682.0	686.3	693.5	699.3	707.5	712.7	718.0	718.1
70°	601.1	604.0	606.0	611.0	614.5	620.7	625.3	632.7	638.0	643.9	645.4
72.5°	552.8	554.4	557.1	561.7	566.5	573.2	579.4	587.0	593.5	599.6	602.1
75°	516.0	518.0	519.7	523.6	527.0	532.6	537.2	544.2	549.8	556.4	559.6
77.5°	462.9	465.2	466.7	470.6	473.5	478.9	482.3	488.6	493.3	499.2	502.1
80°	398.8	400.9	401.9	405.7	407.9	412.9	416.3	422.4	426.2	432.1	435.7
82.5°	327.7	329.7	330.3	333.8	335.1	339.2	341.6	347.8	352.6	360.3	365.6
85°	245.3	246.1	247.3	246.4	251.3	251.7	257.3	258.3	265.7	267.7	276.1
87.5°	150.0	152.2	153.3	156.7	158.2	161.7	162.7	166.4	168.3	172.4	174.4
90°	76.2	80.5	82.4	87.3	89.3	93.8	95.5	100.4	102.4	107.4	110.6
92.5°	33.5	35.8	38.0	40.5	42.8	45.5	48.1	50.5	52.9	55.5	60.1
95°	38.3	40.9	43.6	46.3	48.9	51.5	54.1	56.9	59.5	62.1	69.9
97.5°	48.2	50.6	52.8	55.2	57.4	59.8	62.0	64.4	66.6	68.8	78.0
100°	63.1	65.1	67.0	68.9	70.9	72.8	74.7	76.7	78.6	80.6	97.6
102.5°	105.1	111.9	118.9	125.7	132.6	139.5	146.4	153.2	160.2	167.0	203.2
105°	179.2	197.8	216.6	235.2	253.8	272.6	291.2	309.8	328.4	347.1	406.1
107.5°	307.2	341.8	376.4	410.9	445.5	480.0	514.5	549.0	583.5	617.9	677.7
110°	569.2	596.9	624.8	652.5	680.4	708.2	736.1	763.6	791.5	819.2	862.9

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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°	767.9	780.6	793.1	805.8	818.3	830.9	843.4	856.1	868.6	881.1	912.4
115°	809.8	814.3	818.8	823.1	827.7	832.0	836.5	840.8	845.3	849.5	870.8
117.5°	785.5	784.7	784.1	783.4	782.6	781.9	781.1	780.3	779.5	778.7	790.6
120°	731.3	727.4	723.9	720.0	716.2	712.3	708.6	704.7	700.8	696.8	702.1
122.5°	663.1	658.6	654.3	649.5	645.0	640.3	635.8	630.9	626.4	621.7	623.8
125°	600.0	595.4	591.0	586.3	581.6	576.9	572.2	567.5	562.9	558.0	559.2
127.5°	544.9	541.8	538.7	535.2	532.1	528.7	525.4	521.8	518.7	515.1	515.5
130°	509.0	506.3	503.4	500.4	497.5	494.4	491.4	488.2	485.2	482.0	482.7
132.5°	479.5	477.6	475.7	473.5	471.4	469.2	467.0	464.6	462.5	460.2	461.0
135°	459.5	457.7	456.0	454.1	452.1	449.9	447.8	445.7	443.6	441.4	442.4
137.5°	442.6	441.0	439.4	437.5	435.8	433.7	431.9	429.8	427.9	425.8	426.8
140°	427.0	425.5	424.0	422.4	420.8	419.1	417.3	415.4	413.7	411.9	413.0
142.5°	409.6	408.4	407.4	406.1	404.8	403.3	402.0	400.4	399.1	397.6	399.1
145°	398.2	397.3	396.4	395.3	394.2	392.9	391.8	390.4	389.4	388.1	389.7
147.5°	388.1	387.3	386.6	385.8	385.0	383.9	382.9	381.9	381.0	379.9	381.5
150°	379.3	378.6	378.0	377.2	376.4	375.3	374.4	373.6	372.5	371.5	373.2
152.5°	370.1	369.3	368.7	368.0	367.2	366.2	365.4	364.5	363.5	362.6	364.0
155°	364.4	363.6	362.9	362.2	361.5	360.5	359.7	358.9	358.0	357.1	358.2
157.5°	360.5	359.9	359.4	358.8	358.3	357.6	357.0	356.3	355.7	355.0	355.8
160°	358.6	358.0	357.5	356.9	356.2	355.7	355.1	354.4	353.9	353.1	353.8
162.5°	356.7	356.1	355.6	354.9	354.4	353.7	353.1	352.6	352.0	351.4	352.2
165°	356.3	355.9	355.6	355.3	354.9	354.5	354.2	353.7	353.3	352.9	353.4
167.5°	359.0	358.5	358.1	357.5	357.0	356.5	356.0	355.5	355.0	354.4	354.9
170°	359.7	359.3	359.0	358.9	358.6	358.3	358.0	357.7	357.4	357.2	357.6
172.5°	361.3	361.0	360.8	360.7	360.4	360.3	360.1	359.8	359.7	359.3	360.1
175°	361.0	360.7	360.6	360.5	360.4	360.3	360.2	360.0	360.0	359.8	360.2
177.5°	363.3	363.3	363.3	363.3	363.3	363.2	363.1	362.9	362.9	362.9	363.2
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20069.4	20066.9	20063.6	20059.3	20055.7	20051.5	20041.4	20038.5	20041.8	20044.1	20048.7
5°	20117.0	20118.4	20118.9	20128.1	20136.0	20155.6	20309.5	20370.7	20418.0	20448.0	20493.6
7.5°	20260.8	20307.1	20352.8	20414.4	20467.5	20539.1	20808.4	20923.1	21004.6	21063.1	21135.2
10°	*20504.5*	*20605.4*	*20700.1*	*20811.0*	*20906.4*	*21015.6*	*21266.3*	*21377.9*	*21448.5*	*21499.8*	*21547.7*
12.5°	20749.9	20889.9	21016.5	21139.9	21243.2	21337.9	21426.0	21465.2	21468.4	21470.1	21444.6
15°	20877.7	21011.6	21123.2	21204.7	21265.4	21292.2	21140.5	21060.9	20960.3	20877.4	20741.0
17.5°	20797.0	20877.4	20925.5	20920.8	20895.7	20811.8	20381.8	20145.4	19910.7	19699.2	19421.7
20°	20438.4	20432.2	20390.4	20271.6	20128.6	19906.2	19169.1	18743.9	18332.7	17971.6	17533.6
22.5°	19771.1	19666.1	19519.8	19263.8	18979.5	18590.9	17534.6	16909.1	16336.8	15831.1	15264.7
25°	18804.3	18588.3	18318.4	17912.0	17470.1	16903.3	15601.5	14823.5	14136.2	13540.3	12886.8
27.5°	17567.0	17241.6	16846.1	16283.6	15684.9	14958.8	13515.5	12656.9	11919.2	11280.2	10584.6
30°	16102.1	15679.0	15168.1	14470.1	13748.0	12924.4	11460.6	10590.9	9844.2	9186.9	8490.8
32.5°	14446.8	13951.2	13352.5	12569.0	11788.1	10941.3	9527.6	8685.8	7972.5	7340.1	6710.1
35°	12620.9	12089.4	11456.0	10657.0	9880.8	9057.5	7760.4	7001.3	6371.4	5812.5	5303.7
37.5°	10662.4	10140.5	9538.6	8785.5	8065.6	7319.6	6200.4	5564.3	5035.7	4571.8	4178.9
40°	8626.1	8169.4	7648.5	6997.4	6383.1	5761.9	4843.1	4338.2	3921.1	3567.3	3272.9
42.5°	6614.7	6260.8	5861.4	5346.8	4876.8	4403.7	3696.5	3322.5	3013.5	2758.8	2550.7
45°	4799.2	4562.4	4294.5	3936.9	3611.6	3281.7	2778.3	2515.4	2314.2	2149.9	2011.1
47.5°	3354.9	3217.6	3209.2	2878.6	2640.1	2438.3	2114.1	1948.1	1824.8	1725.2	1637.4
50°	2356.0	2289.6	2207.1	2089.1	1978.4	1864.3	1666.9	1566.5	1494.2	1433.9	1378.4
52.5°	1761.3	1726.8	1682.9	1620.2	1560.3	1496.1	1371.2	1307.2	1284.5	1228.4	1184.4
55°	1406.8	1387.0	1362.0	1325.3	1288.7	1274.1	1167.0	1119.6	1089.5	1067.4	1043.7
57.5°	1168.5	1153.8	1138.9	1114.0	1093.0	1067.4	1010.5	986.2	968.3	955.3	938.9
60°	996.8	987.9	979.6	965.0	953.6	939.8	903.7	890.0	880.7	872.8	862.3
62.5°	879.8	875.3	871.0	863.2	857.4	849.9	825.1	818.6	813.9	810.0	803.6
65°	795.3	792.1	789.6	784.5	781.6	777.2	756.0	751.5	748.7	747.2	743.6
67.5°	718.5	715.2	713.6	709.9	708.7	706.0	688.6	686.1	685.2	685.7	684.3
70°	646.8	645.4	646.1	645.5	647.2	647.6	637.1	637.1	638.2	640.4	640.6
72.5°	603.8	603.8	604.6	604.9	606.5	607.3	598.6	598.1	598.6	600.2	600.3
75°	562.9	563.5	565.8	566.5	568.3	568.7	557.2	555.8	555.8	557.4	557.0
77.5°	506.2	508.6	512.8	515.1	518.7	519.3	506.4	504.8	504.9	506.4	505.1
80°	441.9	446.6	453.4	458.1	463.5	465.7	452.3	449.2	446.2	445.8	443.1
82.5°	373.7	379.4	387.4	391.6	397.5	398.9	376.6	372.2	369.8	370.0	367.6
85°	285.2	289.5	296.8	299.3	302.9	302.6	277.1	266.2	269.1	264.5	268.1
87.5°	178.9	181.4	186.0	186.6	188.4	188.0	162.3	157.3	155.8	155.9	154.0
90°	116.7	120.4	126.3	128.2	132.7	134.3	115.5	114.9	111.6	110.8	106.7
92.5°	65.1	69.7	74.5	79.2	83.9	88.7	91.0	95.1	90.3	85.1	80.7
95°	77.7	85.3	93.1	100.9	108.7	116.3	124.1	131.9	124.7	117.4	110.2
97.5°	87.2	96.4	105.6	114.7	123.8	133.0	142.2	151.4	143.6	135.6	127.9
100°	114.7	131.8	148.8	165.9	182.9	200.1	217.1	234.3	219.3	204.2	189.2
102.5°	239.4	275.7	311.9	348.3	384.5	420.8	457.2	493.6	459.1	424.5	390.0
105°	464.9	523.6	582.4	641.2	700.0	758.7	817.8	876.7	821.6	766.4	711.4
107.5°	737.3	797.0	856.6	916.2	975.9	1035.6	1095.6	1155.2	1101.6	1047.7	994.0
110°	906.5	950.0	993.7	1037.0	1080.6	1124.1	1168.2	1211.8	1179.5	1147.3	1115.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	943.5	974.6	1005.8	1037.0	1068.0	1099.2	1131.1	1162.4	1146.3	1130.0	1113.9
115°	891.7	912.8	933.8	954.9	976.0	996.8	1018.8	1040.0	1034.9	1029.7	1024.8
117.5°	802.4	814.2	826.1	837.8	849.5	861.4	874.2	886.2	887.2	888.2	889.2
120°	707.1	712.2	717.1	722.3	727.3	732.2	738.6	743.8	748.3	752.7	757.2
122.5°	625.8	627.8	629.8	631.8	633.8	635.7	639.2	641.6	644.5	647.8	650.9
125°	560.2	561.4	562.4	563.3	564.3	565.4	568.1	569.4	569.8	570.1	570.5
127.5°	515.8	516.1	516.5	516.8	517.0	517.3	519.4	520.1	518.5	516.7	515.0
130°	483.2	483.9	484.5	485.2	485.8	486.4	488.9	490.0	486.9	483.7	480.6
132.5°	461.7	462.5	463.2	464.0	464.8	465.5	468.4	469.6	466.1	462.4	458.7
135°	443.3	444.3	445.2	446.1	447.0	448.1	451.2	452.7	449.3	445.8	442.4
137.5°	427.6	428.6	429.6	430.6	431.5	432.6	436.0	437.5	434.8	432.0	429.4
140°	414.1	415.1	416.4	417.6	418.7	419.9	423.7	425.5	423.4	421.2	419.1
142.5°	400.4	402.1	403.7	405.3	406.8	408.6	412.8	415.1	413.6	411.9	410.4
145°	391.4	393.1	394.9	396.7	398.5	400.3	405.2	407.7	406.8	405.8	404.8
147.5°	382.8	384.5	386.2	387.8	389.5	391.5	396.3	398.8	398.3	397.6	397.1
150°	374.6	376.3	377.9	379.6	381.4	383.3	388.6	391.4	390.9	390.3	389.8
152.5°	365.4	366.9	368.4	369.9	371.5	373.3	379.5	382.2	381.7	381.1	380.8
155°	359.3	360.5	361.7	363.0	364.2	365.6	372.1	374.6	374.4	374.1	373.8
157.5°	356.6	357.4	358.2	359.1	360.1	361.1	367.7	370.0	369.7	369.5	369.3
160°	354.5	355.2	355.8	356.5	357.2	358.0	364.7	366.8	366.6	366.3	366.1
162.5°	353.0	354.0	354.7	355.7	356.5	357.5	364.3	366.8	366.3	365.9	365.5
165°	354.0	354.5	355.0	355.7	356.2	356.8	363.1	365.0	364.9	364.7	364.4
167.5°	355.5	356.1	356.7	357.4	357.9	358.7	364.6	366.4	366.3	366.0	365.9
170°	358.0	358.7	358.9	359.6	360.1	360.7	365.6	367.2	367.0	366.4	366.2
172.5°	360.4	361.2	361.7	362.2	362.8	363.4	367.6	369.2	368.9	368.6	368.1
175°	360.5	361.0	361.5	361.9	362.4	363.0	366.2	367.3	367.2	367.1	366.9
177.5°	363.5	363.7	364.1	364.5	364.8	365.1	367.2	367.8	367.8	367.8	367.8
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	*20006.8*
2.5°	20049.7	20056.7	20057.7	20066.0	20065.3	20075.2	20073.6	20081.6	20076.9	20083.5	*20078.0*
5°	20520.6	20563.3	20585.7	20627.4	20640.5	20677.8	20688.3	20722.3	20723.7	20750.7	*20744.6*
7.5°	21186.4	21249.3	21286.7	21338.2	21364.4	21407.3	21426.2	21457.9	21468.1	21493.3	*21495.3*
10°	*21583.9*	*21614.6*	*21635.8*	*21650.2*	*21663.4*	*21669.5*	*21676.8*	*21674.8*	*21676.8*	*21673.9*	*21680.0*
12.5°	21427.6	21382.9	21353.4	21297.6	21265.2	21203.3	21173.0	21113.6	21092.1	21041.0	*21033.7*
15°	20635.6	20480.0	20370.1	20210.3	20109.8	19952.6	19860.6	19718.8	19653.9	19541.2	*19511.6*
17.5°	19192.1	18903.3	18679.9	18393.2	18194.4	17926.5	17757.9	17536.2	17414.7	17235.9	*17174.0*
20°	17168.4	16741.1	16406.0	16006.7	15720.9	15364.8	15136.9	14849.5	14682.5	14462.9	*14373.9*
22.5°	14792.5	14260.5	13841.9	13370.2	13025.4	12628.6	12355.6	12044.5	11862.9	11624.4	*11518.7*
25°	12343.7	11757.0	11291.7	10794.6	10430.3	10032.6	9759.5	9453.9	9266.0	9039.4	*8934.5*
27.5°	10001.5	9407.7	8957.9	8495.9	8161.7	7802.9	7556.3	7289.6	7122.8	6929.5	*6830.7*
30°	7934.7	7411.0	7028.2	6644.7	6366.7	6075.3	5870.4	5649.4	5503.1	5337.5	*5243.4*
32.5°	6250.8	5846.5	5546.7	5242.5	5015.0	4771.4	4594.4	4399.3	4267.3	4119.5	*4034.2*
35°	4950.5	4636.3	4397.3	4146.8	3951.4	3743.9	3588.0	3419.6	3301.1	3173.9	*3100.2*
37.5°	3911.4	3661.6	3464.9	3256.8	3096.3	2924.4	2866.5	2673.3	2550.6	2448.9	*2378.6*
40°	3069.7	2871.1	2708.3	2549.2	2418.2	2287.9	2183.3	2080.1	2000.8	1928.1	*1877.8*
42.5°	2397.2	2253.3	2134.4	2017.9	1922.3	1827.3	1751.6	1680.5	1627.1	1579.6	*1547.2*
45°	1905.6	1806.7	1724.1	1642.0	1574.6	1511.2	1460.1	1414.8	1380.3	1351.8	*1331.5*
47.5°	1565.5	1497.8	1439.5	1384.1	1338.4	1296.9	1262.7	1251.5	1214.4	1189.4	*1180.0*
50°	1330.5	1289.6	1245.3	1204.4	1173.9	1143.5	1121.3	1099.6	1085.7	1074.2	*1070.8*
52.5°	1155.1	1123.8	1099.1	1073.3	1053.1	1031.5	1016.2	1001.7	994.1	988.1	*987.4*
55°	1024.7	1002.7	986.4	969.1	957.0	944.3	936.4	928.7	925.5	922.4	*922.7*
57.5°	925.9	911.3	900.7	889.5	882.9	876.9	874.9	872.9	873.9	874.4	*876.1*
60°	854.0	844.5	837.9	831.4	828.7	826.7	828.2	829.9	833.4	836.2	*838.7*
62.5°	798.9	793.5	790.3	786.7	786.5	786.6	789.6	792.5	796.9	800.1	*802.6*
65°	742.2	739.1	738.0	735.9	736.9	737.7	741.2	743.4	747.8	750.4	*753.5*
67.5°	684.9	684.2	684.8	684.8	686.8	688.6	691.9	694.5	698.1	700.6	*703.1*
70°	642.6	642.9	644.5	644.7	646.9	648.0	651.0	652.6	656.0	657.9	*661.0*
72.5°	601.4	600.7	601.1	600.1	600.9	600.6	602.2	603.1	605.9	607.5	*611.1*
75°	557.6	555.7	555.3	553.3	553.4	551.9	552.7	552.6	554.4	555.2	*557.8*
77.5°	504.6	501.5	500.0	496.7	496.6	495.4	496.7	497.5	500.8	502.4	*505.4*
80°	441.3	436.4	434.2	430.3	431.0	430.8	434.1	436.5	440.5	441.3	*445.1*
82.5°	366.8	361.9	359.5	355.7	356.6	356.6	359.6	360.2	363.6	365.1	*369.5*
85°	262.7	264.5	259.3	259.7	258.5	260.6	262.7	265.2	268.1	272.9	*276.6*
87.5°	154.7	154.0	155.9	156.1	158.8	160.2	164.5	166.9	171.7	175.5	*182.3*
90°	105.1	101.0	100.7	98.3	99.1	96.7	97.7	95.2	96.8	95.7	*98.2*
92.5°	75.3	70.6	65.4	60.7	55.5	51.0	48.3	46.3	43.7	41.8	*39.2*
95°	102.9	95.6	88.4	81.2	74.0	66.8	64.2	61.5	58.8	56.2	*53.6*
97.5°	120.1	112.4	104.6	96.8	89.0	81.2	79.4	77.7	76.0	74.2	*72.4*
100°	174.1	159.1	144.2	129.1	114.1	99.1	97.7	96.3	94.9	93.5	*92.0*
102.5°	355.7	321.3	286.9	252.4	218.1	183.6	177.6	171.6	165.6	159.6	*153.6*
105°	656.3	601.1	546.0	491.0	435.9	380.9	364.5	347.9	331.5	315.1	*298.6*
107.5°	940.3	886.5	832.8	779.2	725.4	671.7	645.8	619.8	593.8	567.8	*541.9*
110°	1082.6	1050.3	1018.2	985.8	953.8	921.5	896.6	872.0	847.2	822.4	*797.7*

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TEST NUMBER: P1444446
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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°	1097.7	1081.7	1065.5	1049.5	1033.4	1017.4	1005.3	993.2	981.2	969.1	*956.9*
115°	1019.6	1014.5	1009.4	1004.5	999.6	994.5	993.6	992.8	991.9	991.1	*990.3*
117.5°	890.2	891.3	892.2	893.3	894.5	895.5	902.1	908.4	915.0	921.6	*928.3*
120°	761.7	766.1	770.5	775.1	779.6	784.2	792.8	801.5	810.3	819.2	*828.1*
122.5°	654.1	657.2	660.4	663.6	666.8	670.0	678.6	687.3	695.9	704.7	*713.6*
125°	570.6	570.9	571.2	571.4	571.8	572.1	579.3	586.4	593.6	600.9	*608.1*
127.5°	513.3	511.4	509.8	508.2	506.3	504.7	508.9	513.2	517.5	521.9	*526.2*
130°	477.4	474.3	471.0	468.0	464.6	461.6	463.3	465.1	466.9	468.7	*470.5*
132.5°	455.0	451.3	447.6	443.9	440.2	436.4	436.5	436.6	436.7	436.9	*437.2*
135°	438.8	435.4	431.7	428.3	424.6	421.2	420.4	419.6	418.7	418.1	*417.4*
137.5°	426.6	423.9	421.1	418.2	415.4	412.6	411.2	410.3	409.0	408.0	*407.0*
140°	416.8	414.8	412.4	410.3	408.0	405.9	404.8	403.9	403.0	402.1	*401.2*
142.5°	408.7	407.1	405.4	403.9	402.2	400.6	399.6	398.7	397.8	397.0	*396.1*
145°	403.7	402.8	401.8	400.6	399.6	398.7	397.8	397.2	396.4	395.9	*395.4*
147.5°	396.5	395.9	395.3	394.6	394.0	393.3	392.8	392.5	391.9	391.6	*391.2*
150°	389.2	388.7	388.1	387.6	386.9	386.3	386.1	385.9	385.6	385.6	*385.3*
152.5°	380.1	379.7	379.2	378.7	378.1	377.5	377.3	377.2	377.0	376.9	*376.6*
155°	373.5	373.2	372.8	372.5	372.1	371.9	371.5	371.1	370.8	370.5	*370.1*
157.5°	369.0	368.7	368.3	368.1	367.7	367.4	367.1	366.8	366.4	366.2	*365.8*
160°	365.8	365.6	365.2	364.9	364.7	364.4	363.8	363.3	362.8	362.4	*361.9*
162.5°	365.0	364.6	364.2	363.7	363.2	362.8	362.4	362.0	361.8	361.5	*361.1*
165°	364.1	363.8	363.5	363.3	363.0	362.7	362.1	361.8	361.2	360.7	*360.3*
167.5°	365.5	365.3	365.0	364.8	364.5	364.1	363.7	363.3	362.8	362.3	*361.9*
170°	365.8	365.4	365.0	364.6	364.2	363.7	363.3	362.8	362.3	361.9	*361.5*
172.5°	367.8	367.7	367.2	366.9	366.4	366.1	365.7	365.3	364.9	364.5	*364.3*
175°	366.8	366.8	366.7	366.4	366.4	366.3	366.1	366.1	365.9	365.8	*365.6*
177.5°	367.8	367.7	367.7	367.6	367.5	367.5	367.2	367.0	366.7	366.4	*366.3*
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	*365.5*

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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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20083.7	20078.6	20081.1	20071.6	20073.9	20062.5	20061.5	20048.7	20047.4	20035.4	20030.8
5°	20763.7	20752.5	20765.1	20745.5	20749.3	20723.7	20721.6	20688.5	20677.1	20635.8	20617.9
7.5°	21511.1	21506.8	21514.5	21498.1	21497.6	21474.7	21465.3	21435.6	21417.3	21373.8	21346.1
10°	*21674.8*	*21678.6*	*21672.4*	*21673.9*	*21665.0*	*21662.5*	*21653.4*	*21647.6*	*21632.7*	*21621.5*	*21604.9*
12.5°	20994.9	20999.0	20973.1	20989.5	20976.6	21006.9	21004.4	21040.2	21045.7	21090.8	21108.0
15°	19423.7	19418.8	19369.0	19400.4	19383.6	19450.1	19465.1	19554.6	19602.5	19717.5	19788.2
17.5°	17050.1	17037.2	16967.2	17005.4	16985.9	17084.1	17117.0	17260.3	17349.6	17534.9	17667.0
20°	14220.6	14196.0	14114.0	14158.7	14138.8	14250.2	14297.3	14470.4	14585.6	14831.1	15005.7
22.5°	11356.0	11317.2	11236.9	11278.6	11259.7	11375.3	11436.5	11610.1	11742.1	11994.1	12197.9
25°	8783.6	8749.0	8671.4	8700.6	8693.6	8791.3	8845.7	9010.0	9139.7	9379.7	9574.3
27.5°	6699.4	6663.5	6593.3	6614.0	6606.9	6690.2	6741.5	6878.7	6990.3	7192.4	7363.2
30°	5127.5	5084.1	5024.6	5036.0	5031.2	5098.6	5146.5	5262.1	5357.8	5528.5	5675.7
32.5°	3930.1	3886.6	3832.0	3837.3	3830.1	3883.0	3922.5	4023.0	4106.3	4251.5	4379.7
35°	3007.1	3058.1	2941.4	3015.3	2938.4	3051.3	3010.7	3073.5	3145.2	3267.5	3374.4
37.5°	2311.8	2276.3	2246.2	2243.0	2242.9	2269.1	2300.0	2360.5	2423.6	2514.8	2608.9
40°	1831.9	1807.0	1787.6	1786.2	1787.6	1806.3	1829.1	1870.9	1917.2	1982.6	2051.8
42.5°	1519.4	1502.9	1491.1	1490.4	1494.1	1507.3	1523.2	1548.0	1578.1	1620.5	1667.9
45°	1315.0	1305.9	1299.4	1299.0	1300.7	1307.6	1316.7	1332.2	1351.3	1377.7	1407.8
47.5°	1171.6	1169.5	1165.4	1165.5	1163.7	1166.5	1167.5	1176.2	1186.3	1206.3	1245.5
50°	1067.3	1067.3	1064.5	1064.3	1061.7	1061.5	1059.2	1062.7	1067.5	1079.8	1092.3
52.5°	984.8	984.5	981.4	980.8	978.0	977.8	976.0	977.3	977.9	984.2	991.7
55°	920.2	918.3	914.3	913.0	912.0	913.6	912.8	912.9	912.1	914.7	916.9
57.5°	873.9	871.4	867.7	866.5	866.3	868.2	868.2	867.6	864.1	861.8	858.4
60°	837.3	834.8	830.8	829.7	830.3	833.0	832.8	830.6	825.4	820.9	815.6
62.5°	801.4	800.3	798.3	798.0	797.4	797.9	796.0	793.7	788.5	783.7	778.0
65°	753.1	753.7	752.1	752.3	750.5	750.1	747.3	745.1	739.8	735.5	729.6
67.5°	703.0	703.4	702.1	702.1	701.1	701.3	699.6	697.5	693.1	689.5	685.0
70°	661.7	662.7	662.0	662.3	661.0	660.6	657.9	655.8	651.3	648.4	644.3
72.5°	612.2	614.5	614.4	614.9	613.2	612.2	609.0	606.4	602.4	600.0	596.8
75°	558.8	561.7	562.6	563.8	561.3	560.0	556.5	554.4	551.1	549.7	547.5
77.5°	506.8	509.9	512.9	515.8	511.7	508.1	503.7	500.4	495.6	493.7	490.4
80°	448.2	453.8	460.6	466.2	458.9	451.5	444.3	438.9	432.7	430.0	425.9
82.5°	371.9	377.6	381.5	385.1	380.0	374.6	367.7	363.0	356.1	353.6	348.8
85°	282.5	289.7	292.0	293.9	290.7	287.8	281.2	272.4	268.1	261.3	257.9
87.5°	185.8	190.2	190.9	191.6	189.6	188.2	184.0	179.8	172.4	167.1	160.6
90°	96.4	97.6	94.4	93.9	92.8	94.5	91.7	91.9	87.3	86.6	82.6
92.5°	37.0	34.6	32.2	30.0	32.6	34.6	37.2	39.2	41.7	43.7	46.3
95°	51.0	48.2	45.6	43.0	45.1	47.2	49.4	51.4	53.6	55.6	57.8
97.5°	70.6	68.9	67.2	65.4	66.6	67.8	69.0	70.3	71.6	72.8	74.1
100°	90.6	89.2	87.8	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
102.5°	147.6	141.6	135.6	129.6	133.7	137.7	141.8	145.8	149.9	153.9	158.1
105°	282.2	265.8	249.4	233.1	248.9	264.8	280.6	296.6	312.4	328.5	344.3
107.5°	515.8	490.0	464.0	438.1	467.1	496.1	524.9	553.9	582.8	611.8	640.8
110°	773.1	748.3	723.7	699.0	729.7	760.3	791.1	821.7	852.5	883.1	913.9

TEST NUMBER: P1444446
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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°	945.0	933.0	921.0	909.0	928.7	948.5	968.2	988.1	1007.9	1027.8	1047.4
115°	989.5	988.8	988.1	987.4	996.8	1006.1	1015.4	1024.9	1034.3	1043.7	1053.1
117.5°	934.7	941.4	948.0	954.8	957.8	960.8	963.9	966.9	970.1	973.1	976.2
120°	836.9	845.8	854.7	863.7	862.5	861.3	860.1	858.9	857.8	856.7	855.8
122.5°	722.4	731.3	740.3	749.2	746.6	743.8	741.3	738.8	736.3	733.8	731.4
125°	615.7	623.0	630.6	638.1	635.5	632.7	630.2	627.8	625.2	622.7	620.5
127.5°	530.8	535.4	540.0	544.7	543.5	542.3	541.2	540.0	539.1	538.1	537.2
130°	472.6	474.6	476.9	478.8	479.2	479.6	480.2	480.6	481.4	481.9	482.7
132.5°	437.6	438.0	438.5	439.0	440.4	441.8	443.4	445.0	446.8	448.4	450.5
135°	416.9	416.5	416.0	415.7	417.9	419.8	422.2	424.3	426.9	429.3	431.9
137.5°	406.2	405.2	404.6	403.7	405.9	407.9	410.2	412.5	414.9	417.4	420.1
140°	400.4	399.8	399.3	398.7	400.8	402.8	405.0	407.3	409.7	412.2	414.8
142.5°	395.5	394.7	394.2	393.7	395.5	397.4	399.5	401.6	403.8	406.1	408.3
145°	394.8	394.3	393.9	393.5	394.8	396.2	397.7	399.2	401.0	402.5	404.4
147.5°	390.9	390.6	390.4	390.2	391.3	392.2	393.4	394.4	395.7	396.9	398.3
150°	385.3	385.1	385.1	385.1	385.7	386.4	387.1	387.8	388.6	389.4	390.4
152.5°	376.7	376.5	376.6	376.6	377.1	377.7	378.4	379.0	379.8	380.5	381.5
155°	370.0	369.8	369.5	369.3	369.5	369.8	370.1	370.3	370.7	371.0	371.4
157.5°	365.7	365.4	365.2	364.9	364.9	364.9	365.0	365.0	365.1	365.1	365.3
160°	361.6	361.0	360.6	360.3	360.4	360.5	360.7	360.8	361.1	361.4	361.6
162.5°	360.9	360.6	360.4	360.1	359.9	359.6	359.5	359.2	359.0	358.9	358.9
165°	359.8	359.3	358.9	358.4	358.4	358.4	358.3	358.3	358.2	358.2	358.3
167.5°	361.5	360.9	360.5	360.1	359.7	359.2	358.9	358.6	358.3	357.9	357.7
170°	361.2	360.7	360.4	360.0	359.8	359.6	359.5	359.3	359.2	359.1	359.1
172.5°	363.9	363.5	363.2	362.9	362.7	362.5	362.5	362.4	362.2	362.2	362.2
175°	365.5	365.4	365.3	365.1	364.8	364.7	364.5	364.3	364.2	363.9	363.7
177.5°	366.1	365.8	365.6	365.4	365.3	365.3	365.3	365.3	365.3	365.2	365.2
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20017.8	20012.6	19998.7	19991.9	19979.1	19972.6	19962.6	19956.1	19948.1	19942.1	19939.0
5°	20572.5	20546.9	20495.6	20464.0	20408.5	20372.1	20317.1	20276.7	20220.0	20178.0	20124.3
7.5°	21294.0	21254.8	21189.0	21139.3	21061.7	21002.5	20915.5	20846.0	20749.9	20670.1	20571.9
10°	*21587.9*	*21564.9*	*21535.4*	*21503.4*	*21460.5*	*21418.3*	*21358.9*	*21298.4*	*21217.8*	*21137.5*	*21032.7*
12.5°	21153.6	21175.1	21217.8	21237.6	21270.1	21281.2	21296.2	21289.1	21275.9	21243.2	21195.7
15°	19923.9	20014.0	20156.3	20254.8	20392.8	20489.7	20617.9	20700.4	20795.5	20852.3	20906.2
17.5°	17901.0	18075.2	18326.4	18526.9	18795.9	19014.7	19282.7	19493.3	19736.5	19923.0	20121.5
20°	15309.9	15554.0	15900.8	16195.3	16585.2	16915.7	17339.3	17694.1	18108.0	18453.0	18825.4
22.5°	12521.4	12808.4	13205.7	13561.0	14026.6	14442.4	14973.0	15442.2	16001.7	16502.9	17057.4
25°	9890.6	10171.9	10576.7	10944.5	11447.1	11905.2	12484.9	13023.2	13672.4	14277.9	14973.0
27.5°	7634.6	7884.5	8240.3	8571.4	9031.7	9481.4	10069.7	10643.6	11336.5	11987.2	12736.3
30°	5896.0	6098.8	6383.9	6650.3	7019.8	7387.5	7911.6	8442.4	9131.8	9806.1	10574.1
32.5°	4569.3	4742.1	4980.1	5196.3	5481.1	5758.3	6144.3	6568.4	7173.2	7819.1	8561.7
35°	3537.1	3685.0	3887.5	4073.8	4307.9	4528.1	4816.1	5118.8	5580.3	6123.6	6788.2
37.5°	2820.0	2880.3	3024.8	3177.4	3372.0	3552.8	3778.1	4002.0	4332.2	4760.8	5303.7
40°	2144.6	2240.3	2358.0	2478.2	2625.4	2770.5	3017.7	3136.7	3354.1	3661.8	4083.1
42.5°	1730.4	1797.7	1880.5	1964.1	2066.8	2167.7	2292.8	2420.1	2582.6	2791.0	3090.8
45°	1448.1	1491.9	1545.3	1601.0	1668.4	1737.3	1821.1	1908.5	2018.6	2146.7	2328.8
47.5°	1259.4	1283.7	1318.5	1356.5	1402.7	1450.5	1504.9	1560.6	1629.0	1705.0	1808.7
50°	1112.2	1132.4	1159.5	1184.8	1216.8	1265.7	1287.3	1318.0	1359.2	1403.9	1461.9
52.5°	1005.6	1019.0	1036.1	1050.7	1070.8	1089.1	1113.2	1134.4	1162.8	1189.7	1227.2
55°	922.7	927.5	937.2	946.5	960.5	973.1	989.5	1003.4	1021.6	1037.6	1061.2
57.5°	858.6	859.0	863.5	868.3	877.3	885.2	896.5	905.6	918.3	928.5	942.6
60°	812.5	810.1	810.9	812.7	817.7	822.8	830.1	836.0	844.0	849.7	857.7
62.5°	774.2	770.3	769.4	768.9	771.5	773.3	777.3	780.2	784.7	787.2	791.4
65°	725.8	721.3	719.5	717.3	718.1	717.5	719.0	719.1	721.4	721.9	724.4
67.5°	681.8	678.1	675.7	672.9	671.7	669.7	668.8	666.8	666.6	665.0	664.6
70°	641.8	638.1	636.2	633.6	632.3	629.6	628.0	624.7	622.7	619.7	618.0
72.5°	595.5	593.4	592.8	591.1	590.6	589.1	588.4	586.1	584.8	582.2	580.8
75°	547.0	545.4	545.2	543.4	543.3	541.5	541.0	538.6	537.4	534.8	533.6
77.5°	489.3	486.8	486.2	484.0	484.6	483.6	484.4	482.6	481.7	479.1	478.3
80°	424.4	421.1	419.8	417.1	417.9	416.6	417.9	417.7	418.6	416.6	416.2
82.5°	347.4	343.9	343.2	341.3	342.6	342.7	345.5	344.0	344.5	342.6	343.5
85°	252.8	250.2	246.4	246.0	243.5	246.0	242.8	244.9	241.5	243.9	240.6
87.5°	156.7	151.3	148.4	144.4	142.9	139.2	137.6	134.9	135.7	134.4	135.2
90°	82.9	79.6	80.9	79.4	81.4	80.5	83.3	83.3	86.4	86.3	89.6
92.5°	48.3	50.6	54.8	59.2	63.3	67.5	71.8	76.2	80.3	84.7	88.7
95°	59.9	62.0	67.6	73.3	79.0	84.6	90.3	95.9	101.6	107.3	112.9
97.5°	75.3	76.5	82.1	87.9	93.5	99.1	104.8	110.6	116.2	122.0	127.6
100°	86.4	86.5	102.5	118.6	134.6	150.7	166.8	182.8	199.0	215.1	231.1
102.5°	162.1	166.2	206.7	247.4	287.9	328.5	369.1	409.7	450.3	491.0	531.7
105°	360.3	376.2	438.1	500.0	561.8	623.8	685.9	748.0	809.8	871.8	933.8
107.5°	669.7	698.7	754.7	810.7	866.5	922.7	978.7	1034.7	1090.6	1146.6	1202.8
110°	944.6	975.4	1012.9	1050.3	1087.9	1125.4	1162.9	1200.5	1238.0	1275.6	1313.3

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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°	1067.2	1087.1	1109.0	1130.8	1152.7	1174.5	1196.5	1218.3	1240.3	1262.2	1284.2
115°	1062.6	1072.2	1080.5	1089.1	1097.4	1106.1	1114.6	1123.3	1131.9	1140.5	1149.2
117.5°	979.3	982.6	983.8	985.2	986.4	987.9	989.4	990.9	992.3	993.8	995.3
120°	854.7	853.7	852.2	850.8	849.3	848.0	846.8	845.4	844.2	842.9	841.5
122.5°	728.9	726.6	725.2	723.8	722.6	721.4	720.0	718.9	717.8	716.6	715.4
125°	618.0	615.9	617.1	618.2	619.5	620.8	622.1	623.5	624.8	626.1	627.5
127.5°	536.3	535.6	538.7	542.0	545.3	548.5	551.8	555.2	558.5	561.9	565.1
130°	483.4	484.4	488.5	492.6	496.8	501.1	505.4	509.7	513.9	518.1	522.3
132.5°	452.2	454.3	458.1	462.3	466.2	470.3	474.4	478.6	482.6	486.8	490.7
135°	434.4	437.3	440.8	444.6	448.2	452.1	455.7	459.5	463.1	466.9	470.5
137.5°	422.5	425.4	428.3	431.3	434.1	437.3	440.2	443.3	446.1	449.2	452.1
140°	417.3	420.0	421.5	423.4	425.1	426.8	428.4	430.1	431.7	433.6	435.1
142.5°	410.7	413.3	414.2	415.2	416.4	417.6	418.6	419.6	420.7	421.7	422.6
145°	406.1	408.0	408.0	408.1	408.3	408.4	408.4	408.6	408.6	408.7	408.7
147.5°	399.6	401.0	400.6	400.6	400.4	400.2	400.1	399.9	399.6	399.5	399.2
150°	391.3	392.3	391.7	391.5	390.8	390.4	389.9	389.5	388.9	388.5	387.9
152.5°	382.2	383.1	382.4	382.0	381.3	380.9	380.1	379.7	379.0	378.5	378.0
155°	371.7	372.2	371.8	371.5	371.2	370.8	370.5	370.4	370.2	369.8	369.6
157.5°	365.4	365.5	365.3	365.1	364.9	364.8	364.7	364.6	364.5	364.5	364.5
160°	361.7	362.0	361.8	361.6	361.4	361.2	361.1	361.0	360.9	361.0	361.0
162.5°	358.6	358.5	358.3	358.1	358.0	357.8	357.7	357.8	357.7	357.8	357.8
165°	358.4	358.6	358.1	357.8	357.5	357.3	357.0	356.8	356.7	356.5	356.4
167.5°	357.5	357.4	357.4	357.4	357.4	357.4	357.5	357.8	357.9	358.2	358.3
170°	359.0	359.1	358.9	358.8	358.6	358.5	358.5	358.3	358.3	358.3	358.1
172.5°	362.2	362.2	361.9	361.5	361.2	360.8	360.4	360.3	360.0	359.7	359.3
175°	363.4	363.3	363.1	362.9	362.7	362.4	362.3	362.0	361.9	361.7	361.5
177.5°	365.1	364.9	364.8	364.8	364.8	364.8	364.8	364.7	364.7	364.7	364.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	19934.9	19934.7	19932.8	19933.6	19934.0	19935.4	19937.2	19939.0	19939.3	19940.8	19941.0
5°	20084.1	20034.8	19998.4	19958.2	19928.0	19900.8	19882.8	19868.4	19862.8	19864.2	19867.6
7.5°	20488.6	20386.8	20302.9	20207.3	20127.7	20043.4	19973.4	19907.0	19858.6	19822.5	19802.3
10°	*20932.5*	*20808.6*	*20689.9*	*20551.8*	*20420.6*	*20280.8*	*20154.0*	*20026.5*	*19920.1*	*19827.6*	*19759.8*
12.5°	21129.6	21041.9	20939.4	20809.0	20668.7	20507.3	20344.2	20169.5	20006.9	19856.1	19734.4
15°	20921.0	20921.2	20883.8	20821.2	20723.7	20594.8	20439.5	20257.3	20065.5	19869.8	19691.0
17.5°	20258.9	20383.8	20453.3	20497.3	20483.8	20436.3	20337.4	20197.5	20018.7	19810.3	19592.1
20°	19121.8	19416.5	19626.6	19815.5	19921.4	19991.7	19984.7	19927.7	19800.4	19623.2	19396.1
22.5°	17529.0	18023.6	18413.8	18777.7	19032.9	19240.6	19339.2	19381.2	19323.5	19200.0	18986.6
25°	15594.3	16266.8	16840.6	17397.5	17815.3	18174.3	18390.0	18542.1	18554.1	18489.6	18299.3
27.5°	13444.6	14238.3	14964.6	15704.8	16292.2	16808.3	17147.0	17394.9	17473.6	17463.3	17290.3
30°	11297.6	12130.8	12931.4	13794.4	14521.4	15180.8	15628.1	15963.4	16092.6	16117.3	15951.0
32.5°	9270.0	10091.6	10890.0	11792.2	12592.3	13347.9	13876.5	14274.7	14424.8	14460.3	14277.9
35°	7429.7	8187.8	8946.5	9821.0	10616.4	11398.9	11955.9	12372.7	12513.0	12536.6	12325.5
37.5°	5833.9	6479.8	7140.9	7925.6	8655.9	9391.0	9920.0	10311.9	10414.0	10407.7	10168.8
40°	4490.3	4992.5	5523.6	6169.6	6776.9	7398.1	7844.9	8168.9	8222.5	8182.8	7931.8
42.5°	3376.5	3739.2	4124.2	4606.5	5057.0	5522.0	5847.0	6087.5	6095.2	6032.3	5807.0
45°	2515.4	2869.3	3030.8	3322.3	3612.5	3921.7	4120.2	4268.8	4245.7	4190.5	4019.2
47.5°	1917.6	2053.5	2197.8	2378.6	2547.7	2898.5	2872.5	3111.0	2939.2	3056.4	2798.5
50°	1522.8	1598.8	1676.5	1772.4	1860.8	1952.5	2009.8	2052.5	2047.0	2028.6	1979.2
52.5°	1295.5	1319.0	1357.3	1411.8	1461.2	1510.7	1543.4	1569.9	1570.5	1563.0	1538.1
55°	1082.7	1112.6	1140.1	1175.8	1236.5	1245.8	1292.7	1283.1	1286.9	1273.8	1287.1
57.5°	954.7	972.0	987.5	1008.7	1026.3	1046.8	1058.9	1070.5	1069.3	1066.8	1054.1
60°	863.9	873.5	882.1	894.5	904.1	915.6	921.3	927.2	925.2	920.9	909.5
62.5°	793.9	799.9	804.8	812.8	818.7	825.9	828.7	831.2	828.7	824.7	814.7
65°	724.8	728.8	731.9	737.8	742.0	748.1	750.6	752.9	750.7	747.5	739.8
67.5°	662.6	662.9	662.6	665.1	666.4	670.0	671.2	672.9	670.2	667.5	661.0
70°	615.3	614.4	613.2	614.2	614.4	616.2	616.4	616.2	613.0	608.2	601.2
72.5°	578.4	577.9	577.0	577.9	577.9	579.4	579.0	578.1	574.2	569.6	562.6
75°	530.9	530.6	528.9	528.9	527.4	527.9	526.0	524.9	520.5	516.7	510.4
77.5°	475.5	474.5	471.9	471.0	468.2	466.9	463.4	461.6	457.1	454.0	448.7
80°	413.5	412.5	409.2	407.3	402.9	400.1	394.7	391.6	386.5	383.5	378.3
82.5°	341.7	342.1	338.8	336.5	330.1	325.2	318.1	314.3	308.6	305.6	300.3
85°	243.1	239.6	241.4	241.3	237.3	233.1	227.2	223.2	218.4	215.6	211.9
87.5°	133.3	134.1	133.2	132.4	129.5	127.4	122.9	120.5	117.0	115.3	112.5
90°	83.6	80.8	75.0	72.4	66.7	62.9	56.6	53.3	47.3	45.8	42.3
92.5°	83.9	79.2	74.6	69.6	65.1	60.3	55.5	50.8	46.0	44.2	42.8
95°	106.0	99.1	92.3	85.3	78.5	71.6	64.8	57.9	51.1	49.6	48.2
97.5°	119.4	111.4	103.2	95.2	87.1	79.0	70.9	62.9	54.7	53.9	52.9
100°	212.4	193.9	175.2	156.5	137.9	119.2	100.5	81.9	63.2	62.2	61.1
102.5°	486.3	441.0	395.9	350.6	305.5	260.1	214.9	169.5	124.3	117.7	111.3
105°	865.3	796.8	728.4	659.9	591.3	522.8	454.4	385.7	317.3	295.3	273.1
107.5°	1138.4	1073.9	1009.6	945.2	880.8	816.4	752.0	687.5	623.1	584.3	545.6
110°	1262.1	1210.9	1159.9	1108.8	1057.6	1006.5	955.3	904.2	853.1	819.5	786.4

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1246.8	1209.2	1171.8	1134.3	1096.9	1059.3	1021.9	984.2	946.6	926.4	906.1
115°	1126.6	1104.0	1081.4	1058.8	1036.2	1013.5	990.9	968.2	945.5	934.7	924.0
117.5°	983.7	972.1	960.6	949.0	937.4	925.7	914.0	902.3	890.6	886.9	883.0
120°	838.2	834.6	830.9	827.3	823.6	820.1	816.3	812.7	808.9	809.3	809.7
122.5°	716.7	717.9	719.2	720.2	721.5	722.6	723.9	724.9	726.0	728.8	731.6
125°	630.7	633.9	637.1	640.3	643.4	646.6	649.9	652.9	656.2	658.9	661.7
127.5°	568.9	572.4	576.1	579.6	583.4	586.8	590.5	593.9	597.5	600.0	602.5
130°	525.5	528.5	531.7	534.7	537.9	540.9	543.9	547.0	550.0	551.9	553.8
132.5°	493.6	496.3	499.1	501.8	504.6	507.2	510.1	512.8	515.7	516.9	518.4
135°	472.7	474.6	476.7	478.6	480.8	482.8	484.8	486.9	489.1	489.9	490.8
137.5°	453.6	455.3	457.0	458.5	460.3	461.9	463.7	465.4	467.2	467.4	468.0
140°	436.9	438.6	440.3	442.0	444.0	445.7	447.7	449.5	451.4	451.8	452.2
142.5°	424.0	425.4	426.7	428.1	429.6	430.9	432.4	434.1	435.6	435.9	436.3
145°	410.4	412.0	413.7	415.2	416.9	418.7	420.7	422.5	424.3	424.4	424.7
147.5°	400.5	401.9	403.4	404.8	406.3	407.7	409.5	411.1	412.8	412.9	413.1
150°	389.5	391.0	392.6	394.1	395.8	397.4	399.2	401.0	403.0	403.3	403.7
152.5°	379.6	381.2	382.9	384.7	386.6	388.5	390.4	392.3	394.3	394.6	395.1
155°	371.3	372.9	374.7	376.5	378.2	380.0	381.9	383.8	385.6	386.3	386.8
157.5°	366.0	367.4	369.1	370.7	372.2	373.8	375.6	377.2	379.0	379.4	379.8
160°	362.3	363.6	365.0	366.4	367.9	369.3	370.8	372.3	373.8	374.2	374.7
162.5°	359.1	360.4	361.9	363.3	364.8	366.1	367.7	369.0	370.5	370.8	371.3
165°	357.4	358.4	359.4	360.4	361.4	362.4	363.4	364.6	365.6	366.1	366.7
167.5°	359.2	359.8	360.6	361.4	362.2	363.1	364.0	364.7	365.6	366.1	366.5
170°	358.9	359.5	360.3	361.0	361.8	362.5	363.3	363.9	364.8	365.2	365.8
172.5°	359.8	360.2	360.7	361.1	361.7	362.1	362.6	363.2	363.6	364.3	364.8
175°	361.8	361.9	362.2	362.4	362.6	362.9	363.2	363.5	363.8	364.2	364.7
177.5°	364.7	364.8	365.0	365.2	365.5	365.7	366.0	366.2	366.4	367.0	367.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	19940.4	19940.1	19939.4	19938.6	19937.7	19938.2	19939.1	19941.4	19945.3	19951.1	19958.7
5°	19870.3	19874.4	19876.7	19877.1	19874.9	19873.7	19875.7	19881.1	19892.1	19910.7	19935.7
7.5°	19797.0	19801.9	19809.7	19815.5	19816.5	19815.1	19815.5	19824.0	19844.5	19880.6	19931.2
10°	*19718.6*	*19703.7*	*19711.5*	*19725.9*	*19737.3*	*19739.4*	*19740.8*	*19751.0*	*19780.8*	*19835.4*	*19916.7*
12.5°	19646.2	19599.0	19590.0	19602.9	19620.2	19625.8	19624.2	19628.6	19663.6	19735.8	19849.1
15°	19551.0	19462.2	19431.9	19435.2	19456.7	19464.3	19458.7	19450.1	19484.2	19572.3	19719.1
17.5°	19396.9	19253.8	19198.0	19195.6	19220.7	19227.4	19213.6	19186.9	19220.3	19330.4	19512.6
20°	19162.7	18951.4	18846.4	18829.7	18857.0	18849.0	18821.5	18781.2	18825.2	18959.0	19175.6
22.5°	18741.6	18474.0	18294.6	18236.7	18269.3	18247.6	18207.5	18155.9	18214.4	18366.4	18607.7
25°	18053.5	17744.3	17498.7	17360.9	17386.8	17347.9	17304.3	17241.8	17311.6	17486.0	17751.7
27.5°	17042.1	16684.8	16380.6	16152.5	16160.9	16109.9	16059.6	15978.8	16065.9	16272.4	16572.0
30°	15697.3	15283.9	14913.2	14603.4	14575.7	14526.2	14474.6	14368.6	14477.6	14724.8	15074.8
32.5°	14008.3	13549.3	13121.1	12729.3	12655.3	12607.1	12561.2	12439.1	12581.9	12870.1	13272.2
35°	12033.1	11544.3	11080.0	10632.5	10510.0	10461.7	10421.5	10304.6	10482.7	10796.4	11230.8
37.5°	9865.1	9365.7	8904.8	8445.8	8272.8	8207.3	8178.2	8101.6	8307.0	8617.3	9053.4
40°	7639.5	7175.1	6761.9	6356.5	6159.2	6059.0	6043.7	6029.8	6228.5	6497.6	6893.5
42.5°	5557.4	5182.7	4864.1	4554.3	4375.6	4238.7	4238.6	4280.2	4459.0	4660.6	4965.9
45°	3844.3	3592.8	3389.8	3182.7	3238.1	2965.3	3125.6	3043.4	3131.8	3261.7	3460.2
47.5°	2642.5	2505.3	2393.8	2278.1	2193.8	2113.3	2120.3	2172.2	2255.5	2332.6	2435.9
50°	1926.0	1856.1	1799.2	1739.2	1697.2	1661.7	1663.8	1686.3	1730.0	1770.7	1824.7
52.5°	1509.1	1470.5	1439.7	1406.5	1384.5	1366.8	1367.8	1378.7	1402.3	1425.6	1456.6
55°	1243.9	1239.3	1199.1	1169.3	1158.0	1146.1	1148.2	1152.5	1168.6	1182.2	1202.7
57.5°	1042.4	1024.4	1012.3	996.7	989.4	981.1	983.0	984.6	995.3	1004.4	1019.2
60°	900.1	887.3	878.8	868.1	863.4	858.1	859.3	860.3	867.1	873.1	883.7
62.5°	805.6	794.1	786.7	778.5	775.1	771.6	772.4	772.7	777.0	781.4	789.4
65°	733.1	724.0	717.8	710.7	707.2	703.5	703.8	703.8	707.5	710.7	716.7
67.5°	656.4	649.5	645.5	639.9	637.5	633.8	633.7	632.5	634.8	636.1	640.1
70°	594.8	587.9	582.8	577.4	574.4	571.1	571.1	571.2	574.0	576.8	582.2
72.5°	556.8	550.1	545.6	540.9	538.0	535.2	534.8	534.5	536.5	538.0	541.5
75°	506.4	501.1	498.5	494.0	491.9	488.6	488.1	486.6	487.6	487.9	490.5
77.5°	445.3	440.3	438.2	433.7	431.8	428.2	427.9	426.3	427.0	426.5	428.5
80°	375.7	371.2	370.0	366.3	365.4	362.0	361.6	359.5	360.2	358.6	359.3
82.5°	298.0	293.8	293.0	289.5	289.5	286.5	286.4	283.4	283.4	280.7	276.6
85°	209.9	206.8	205.6	202.8	202.0	199.5	198.3	195.4	194.4	192.5	191.9
87.5°	110.8	108.8	107.2	105.8	103.3	99.0	98.6	95.5	95.8	93.7	93.8
90°	41.0	37.8	36.7	33.7	32.3	30.0	28.9	29.5	30.6	31.5	32.6
92.5°	41.2	39.6	38.1	36.5	34.9	33.3	31.8	33.3	34.9	36.5	38.1
95°	46.8	45.4	44.0	42.6	41.2	39.8	38.4	39.8	41.2	42.7	44.1
97.5°	52.1	51.1	50.3	49.4	48.5	47.6	46.7	47.7	48.6	49.5	50.4
100°	60.0	59.0	57.9	56.9	55.8	54.7	53.7	54.9	56.0	57.0	58.1
102.5°	104.8	98.3	91.8	85.2	78.7	72.2	65.7	72.2	78.7	85.3	91.9
105°	251.1	229.2	207.1	185.1	163.1	141.0	119.0	141.1	163.2	185.2	207.3
107.5°	506.8	468.2	429.4	390.7	351.7	313.0	274.3	313.0	351.8	390.7	429.5
110°	752.8	719.4	686.0	652.5	619.0	585.6	552.1	585.7	619.2	652.7	686.2

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TEST NUMBER: P1444446
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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°	885.8	865.4	845.0	824.8	804.4	783.9	763.5	784.1	804.6	825.1	845.5
115°	913.4	902.5	891.8	881.0	870.2	859.4	848.5	859.6	870.6	881.4	892.4
117.5°	879.2	875.4	871.6	867.8	863.9	860.0	856.1	860.2	864.3	868.4	872.4
120°	810.0	810.3	810.6	810.9	811.2	811.4	811.6	811.8	811.8	811.8	811.7
122.5°	734.2	737.0	739.5	742.2	744.8	747.4	749.8	747.7	745.3	743.2	740.7
125°	664.4	667.2	669.9	672.7	675.3	678.0	680.4	678.4	676.1	673.8	671.3
127.5°	605.0	607.5	609.8	612.3	614.7	616.9	619.1	617.3	615.4	613.5	611.4
130°	555.7	557.6	559.3	561.1	562.8	564.4	565.8	564.7	563.5	562.4	561.0
132.5°	519.6	521.1	522.4	523.7	524.7	526.0	526.8	526.4	525.7	525.1	524.2
135°	491.8	492.6	493.3	494.2	494.9	495.5	495.9	496.0	495.8	495.6	495.2
137.5°	468.4	468.7	469.0	469.2	469.5	469.5	469.5	470.0	470.4	470.9	471.0
140°	452.5	453.0	453.4	453.6	453.8	454.0	453.9	454.6	454.9	455.2	455.4
142.5°	436.7	437.1	437.3	437.7	437.8	438.0	437.9	438.5	438.8	439.1	439.4
145°	424.9	425.0	425.2	425.3	425.2	425.2	424.8	425.7	426.2	426.8	427.2
147.5°	413.3	413.5	413.5	413.5	413.4	413.4	413.1	413.8	414.3	414.9	415.4
150°	404.2	404.7	405.0	405.4	405.6	405.8	405.8	406.3	406.5	406.8	406.9
152.5°	395.5	395.8	396.2	396.4	396.7	396.8	396.9	397.3	397.7	398.0	398.2
155°	387.2	387.8	388.2	388.6	388.9	389.3	389.6	389.9	390.1	390.2	390.4
157.5°	380.3	380.8	381.1	381.6	381.9	382.4	382.6	383.0	383.3	383.6	383.7
160°	375.1	375.6	375.9	376.4	376.7	377.1	377.4	377.8	378.1	378.2	378.5
162.5°	371.7	372.2	372.3	372.8	373.2	373.6	373.8	374.2	374.5	374.8	375.0
165°	367.2	367.8	368.2	368.8	369.3	369.8	370.3	370.5	370.5	370.6	370.7
167.5°	367.0	367.6	367.9	368.5	368.9	369.4	369.9	370.0	370.1	370.1	370.1
170°	366.2	366.6	367.0	367.5	367.9	368.4	368.8	368.8	368.8	368.9	368.9
172.5°	365.2	365.9	366.4	367.1	367.5	368.1	368.6	368.6	368.3	368.2	367.8
175°	365.0	365.6	366.1	366.6	366.9	367.5	368.0	367.7	367.6	367.4	367.1
177.5°	368.1	368.9	369.4	370.0	370.6	371.0	371.7	371.1	370.7	370.3	369.7
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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TEST NUMBER: P1444446
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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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	19969.4	19979.4	19994.7	20008.6	20029.4	20045.9	20070.6	20089.3	20117.1	20135.3	20165.6
5°	19971.2	20010.3	20061.7	20111.8	20172.0	20226.7	20294.7	20352.7	20421.0	20476.8	20546.7
7.5°	19999.4	20074.8	20165.1	20256.0	20359.0	20455.2	20563.7	20661.8	20769.2	20859.9	20959.2
10°	*20020.3*	*20136.4*	*20269.5*	*20403.5*	*20544.5*	*20675.3*	*20807.6*	*20921.9*	*21028.6*	*21116.5*	*21194.1*
12.5°	19992.0	20152.1	20322.8	20487.8	20644.5	20780.0	20893.8	20981.6	21042.3	21083.4	21093.1
15°	19896.0	20088.7	20274.3	20438.5	20568.6	20668.9	20720.8	20745.1	20719.1	20675.7	20580.5
17.5°	19716.6	19919.8	20085.8	20215.4	20284.1	20311.3	20268.3	20193.5	20047.3	19884.9	19650.6
20°	19387.8	19577.1	19697.5	19768.2	19749.8	19681.8	19519.4	19322.1	19030.1	18719.0	18308.4
22.5°	18811.0	18976.5	19040.7	19045.9	18933.7	18763.5	18470.6	18132.1	17671.5	17192.7	16603.9
25°	17945.2	18090.1	18100.3	18043.4	17838.0	17562.2	17132.0	16653.2	16027.4	15389.4	14651.5
27.5°	16770.9	16910.0	16875.9	16769.7	16484.7	16115.5	15564.9	14946.2	14174.7	13421.3	12605.0
30°	15295.0	15443.6	15403.6	15267.3	14928.3	14492.0	13844.1	13125.3	12268.7	11463.9	10636.8
32.5°	13528.5	13716.5	13688.9	13559.3	13205.6	12738.6	12035.6	11273.2	10396.9	9603.8	8799.3
35°	11520.8	11749.0	11760.8	11676.1	11347.7	10886.1	10192.0	9454.0	8614.6	7866.3	7123.0
37.5°	9357.6	9622.2	9676.6	9653.7	9381.5	8974.0	8341.6	7679.6	6936.0	6280.2	5644.5
40°	7182.5	7450.3	7543.2	7570.9	7369.9	7054.4	6535.3	6001.0	5394.8	4863.3	4358.6
42.5°	5198.9	5436.4	5526.1	5582.6	5457.3	5246.8	4868.2	4480.2	4036.0	3652.7	3285.2
45°	3610.7	3778.7	3847.0	3903.8	3835.5	3716.9	3477.7	3235.0	2941.9	2691.4	2454.3
47.5°	2524.5	2617.1	2662.2	2689.8	2663.3	2601.4	2471.2	2330.7	2165.2	2018.8	1878.1
50°	1871.2	1920.5	1944.0	1960.0	1940.8	1906.3	1835.9	1759.3	1668.5	1585.6	1504.5
52.5°	1482.9	1511.1	1525.1	1533.8	1522.7	1501.6	1460.6	1415.3	1360.8	1309.5	1282.6
55°	1249.2	1247.8	1280.2	1264.6	1280.2	1245.3	1237.9	1188.0	1142.8	1110.8	1076.4
57.5°	1030.2	1044.9	1051.1	1058.1	1053.5	1047.1	1029.7	1011.9	988.0	968.1	946.8
60°	891.7	903.8	910.7	917.6	917.1	914.8	904.7	894.0	879.1	867.1	854.3
62.5°	796.4	806.9	813.6	820.2	820.8	819.8	812.2	804.8	794.6	787.1	778.2
65°	721.4	728.8	733.3	738.6	738.3	736.9	730.0	723.8	715.5	710.2	703.7
67.5°	642.9	648.4	651.9	656.9	657.9	658.2	654.4	651.6	647.5	646.0	643.7
70°	587.0	593.8	599.5	605.8	609.2	610.8	609.2	607.7	605.3	604.3	602.6
72.5°	544.8	550.5	554.9	560.6	563.8	566.1	564.8	564.1	561.9	561.7	560.5
75°	492.2	496.2	498.7	503.0	504.7	506.9	505.9	506.4	505.7	507.4	507.3
77.5°	429.2	432.1	433.2	436.3	436.7	439.2	439.9	442.9	445.0	449.8	452.3
80°	358.1	360.0	360.0	363.2	364.6	369.0	371.0	376.0	378.3	382.6	382.9
82.5°	278.2	276.0	278.2	276.9	280.9	285.9	286.5	290.8	291.7	294.4	292.3
85°	190.2	190.1	188.4	188.7	187.3	188.0	187.2	188.0	187.3	187.3	185.5
87.5°	91.1	92.0	89.9	90.6	88.7	89.5	87.9	89.2	87.2	87.5	84.5
90°	33.5	34.6	35.6	36.7	38.1	41.1	44.2	47.2	50.6	53.5	56.7
92.5°	39.6	41.3	42.9	44.5	46.1	50.9	55.6	60.4	65.3	69.9	74.7
95°	45.5	46.9	48.3	49.9	51.3	58.2	65.1	71.9	78.9	85.7	92.6
97.5°	51.3	52.3	53.1	54.0	55.0	63.1	71.2	79.3	87.5	95.5	103.6
100°	59.3	60.3	61.4	62.5	63.5	82.2	100.9	119.6	138.3	157.0	175.6
102.5°	98.4	105.0	111.6	118.1	124.7	170.0	215.3	260.6	305.8	351.2	396.4
105°	229.4	251.4	273.5	295.6	317.6	386.2	454.9	523.4	591.9	660.5	729.0
107.5°	468.4	507.1	546.1	584.9	623.7	688.2	752.6	817.1	881.6	946.2	1010.4
110°	719.8	753.2	786.8	820.3	853.8	905.0	956.4	1007.4	1058.7	1109.9	1161.1

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1444446
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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°	866.1	886.4	906.8	927.2	947.6	985.2	1023.0	1060.5	1098.2	1135.6	1173.2
115°	903.4	914.1	925.0	935.8	946.7	969.5	992.2	1015.0	1037.8	1060.4	1083.1
117.5°	876.4	880.3	884.3	888.1	892.0	903.8	915.5	927.3	939.1	950.9	962.6
120°	811.6	811.4	811.2	810.9	810.7	814.4	818.3	822.1	825.8	829.5	833.1
122.5°	738.4	735.7	733.3	730.7	728.2	727.1	726.0	724.9	724.0	722.9	721.8
125°	668.9	666.3	663.8	661.1	658.4	655.4	652.4	649.2	646.2	643.1	640.1
127.5°	609.4	607.1	604.9	602.6	600.2	596.7	593.3	589.8	586.4	582.7	579.3
130°	559.6	558.0	556.5	554.6	553.1	550.0	547.1	544.1	541.1	538.1	535.1
132.5°	523.3	522.2	521.3	520.0	518.9	516.1	513.7	510.9	508.3	505.5	503.0
135°	495.0	494.4	493.9	493.3	492.6	490.6	488.7	486.7	484.7	482.8	480.8
137.5°	471.3	471.2	471.1	471.0	470.9	469.3	467.7	466.1	464.6	462.9	461.4
140°	455.5	455.5	455.6	455.4	455.3	453.6	452.0	450.3	448.6	446.7	445.1
142.5°	439.5	439.6	439.6	439.5	439.5	438.2	437.0	435.7	434.3	432.9	431.7
145°	427.4	427.7	428.1	428.1	428.5	426.8	425.3	423.5	422.1	420.4	418.9
147.5°	415.8	416.1	416.5	416.6	417.0	415.6	414.4	413.0	411.8	410.3	409.2
150°	407.0	407.1	407.2	407.2	407.2	405.8	404.5	403.0	401.7	400.2	398.9
152.5°	398.3	398.5	398.7	398.8	398.9	397.5	396.0	394.4	392.9	391.4	389.9
155°	390.6	390.6	390.7	390.7	390.7	389.3	387.9	386.4	385.0	383.6	382.2
157.5°	383.9	384.0	384.1	384.2	384.3	383.1	381.9	380.6	379.4	378.1	376.8
160°	378.7	378.9	379.1	379.2	379.3	378.2	377.3	376.1	375.2	373.9	372.8
162.5°	375.2	375.4	375.6	375.7	375.8	374.8	373.9	372.8	371.8	370.6	369.5
165°	370.8	370.7	370.7	370.7	370.6	369.9	369.3	368.6	367.8	367.1	366.3
167.5°	370.3	370.2	370.2	370.1	370.0	369.4	369.3	368.6	368.0	367.6	367.0
170°	369.0	368.9	368.9	368.8	368.7	368.1	367.8	367.2	366.8	366.2	365.6
172.5°	367.8	367.5	367.3	367.1	366.8	366.4	366.1	365.8	365.5	365.1	364.8
175°	366.8	366.5	366.3	366.1	365.8	365.7	365.5	365.4	365.2	365.1	364.9
177.5°	369.3	368.9	368.3	367.9	367.5	367.3	367.2	367.0	366.9	366.8	366.6
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20184.4	20059.7	20043.2	20052.0	20072.8	20080.5	20103.0	20109.2	20131.7	20137.4	20159.1
5°	20600.9	20436.1	20444.3	20483.9	20543.9	20579.7	20638.6	20669.4	20725.7	20751.3	20802.1
7.5°	21040.0	20910.6	20951.0	21017.8	21099.7	21156.6	21227.4	21273.5	21334.6	21372.4	21421.3
10°	*21255.6*	*21220.2*	*21264.6*	*21317.2*	*21364.0*	*21400.6*	*21430.6*	*21454.7*	*21470.4*	*21485.1*	*21491.6*
12.5°	21091.6	21146.4	21154.0	21148.8	21117.9	21094.2	21041.0	21004.9	20940.8	20901.7	20825.5
15°	20483.2	20603.8	20537.1	20435.9	20287.9	20164.5	19990.3	19860.6	19679.1	19556.0	19373.9
17.5°	19415.6	19567.9	19393.9	19159.8	18862.1	18607.4	18290.4	18038.6	17723.3	17493.9	17199.7
20°	17912.8	18055.1	17744.6	17356.7	16896.2	16508.6	16051.5	15686.9	15262.2	14946.2	14565.0
22.5°	16041.5	16142.9	15705.5	15182.6	14595.8	14111.6	13565.1	13128.0	12643.2	12282.1	11875.5
25°	13971.3	13998.6	13474.0	12871.5	12217.6	11673.5	11090.0	10630.3	10136.0	9770.0	9371.0
27.5°	11881.9	11841.7	11274.6	10635.8	9947.9	9382.4	8813.3	8382.6	7949.7	7619.9	7276.2
30°	9909.6	9812.5	9223.7	8567.0	7899.4	7392.4	6920.0	6574.1	6229.8	5968.1	5692.2
32.5°	8101.1	7964.1	7390.9	6775.8	6213.1	5821.9	5471.6	5209.9	4931.8	4710.8	4479.2
35°	6499.3	6353.2	5845.5	5324.0	4898.1	4609.7	4334.4	4119.7	3883.6	3697.1	3496.1
37.5°	5124.5	5004.8	4579.5	4169.1	3847.0	3623.5	3397.9	3222.5	3027.3	2945.3	2730.4
40°	3956.1	3872.4	3539.9	3237.4	2995.5	2890.5	2661.6	2497.5	2351.7	2231.4	2115.0
42.5°	3085.8	3056.2	2732.6	2496.6	2326.3	2194.1	2066.4	1962.9	1862.0	1779.1	1700.8
45°	2264.5	2241.1	2097.4	1961.2	1845.1	1752.7	1666.5	1595.2	1529.3	1474.7	1424.9
47.5°	1763.4	1755.9	1673.1	1588.7	1515.6	1456.2	1400.2	1352.9	1309.1	1272.7	1260.8
50°	1434.2	1433.3	1384.7	1332.6	1280.5	1246.2	1210.4	1182.5	1154.4	1132.6	1109.4
52.5°	1218.7	1213.3	1180.5	1148.4	1117.5	1094.9	1072.1	1054.3	1035.6	1022.1	1007.7
55°	1049.1	1054.6	1035.7	1016.5	997.1	983.1	967.2	955.3	942.5	934.0	925.4
57.5°	931.4	938.7	928.7	917.9	906.1	896.9	885.8	877.7	869.2	863.7	858.7
60°	845.8	853.7	849.7	844.3	836.9	831.5	824.5	819.9	814.5	811.4	808.6
62.5°	773.1	783.1	781.7	779.1	774.4	771.4	767.5	765.5	761.8	760.5	759.2
65°	700.6	711.8	711.6	710.3	707.8	706.8	704.5	704.0	702.2	702.9	702.8
67.5°	643.5	653.4	655.5	657.0	656.9	657.6	657.3	658.3	658.3	659.7	660.6
70°	602.4	609.2	610.8	612.4	612.9	614.2	614.2	615.0	614.9	616.0	616.2
72.5°	560.8	569.7	571.4	572.7	572.7	574.0	573.3	573.1	571.3	570.9	569.7
75°	509.0	520.5	523.1	524.7	524.9	526.0	524.5	523.5	520.5	519.3	517.3
77.5°	455.0	466.9	468.7	469.3	468.4	468.5	465.3	463.0	459.3	457.7	455.7
80°	384.6	402.2	403.6	402.5	399.7	399.3	396.1	394.0	389.5	388.0	386.2
82.5°	292.6	313.2	316.1	317.5	315.2	315.8	312.7	311.5	307.3	306.6	303.9
85°	184.8	205.4	208.8	208.3	206.1	205.5	203.7	204.4	204.0	205.0	205.7
87.5°	84.9	104.8	109.7	108.1	107.9	106.5	103.3	104.4	106.4	107.6	107.7
90°	59.8	68.8	71.8	69.7	65.6	63.1	59.2	57.0	53.5	51.3	47.8
92.5°	79.4	84.2	89.0	84.8	80.6	76.2	72.0	67.7	63.6	59.2	55.1
95°	99.5	106.2	113.1	107.4	101.7	96.0	90.4	84.8	79.2	73.4	67.8
97.5°	111.7	119.7	127.8	122.1	116.4	110.7	105.1	99.4	93.8	88.1	82.3
100°	194.4	212.6	231.4	215.3	199.1	183.1	167.1	150.9	134.9	118.9	102.7
102.5°	441.6	486.7	531.9	491.2	450.6	410.0	369.4	328.8	288.2	247.5	206.9
105°	797.4	865.8	934.2	872.1	810.1	748.1	686.1	624.1	562.2	500.2	438.3
107.5°	1074.9	1138.9	1203.1	1147.0	1091.0	1035.1	979.0	922.9	866.8	810.9	754.9
110°	1212.2	1262.7	1313.7	1276.1	1238.5	1200.9	1163.3	1125.6	1088.1	1050.6	1013.1

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444446
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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°	1210.7	1247.4	1284.7	1262.6	1240.8	1218.8	1196.9	1174.8	1153.1	1131.1	1109.3
115°	1105.7	1127.3	1149.7	1141.0	1132.4	1123.8	1115.1	1106.6	1097.9	1089.4	1080.9
117.5°	974.3	984.7	996.0	994.5	993.0	991.4	990.0	988.4	987.1	985.7	984.3
120°	836.9	839.2	842.5	843.7	845.0	846.2	847.5	848.8	850.1	851.4	852.8
122.5°	720.6	718.0	716.4	717.5	718.7	719.8	721.0	722.2	723.5	724.6	725.9
125°	636.9	632.2	628.5	627.1	625.9	624.5	623.2	621.7	620.6	619.3	618.0
127.5°	575.8	570.5	566.5	563.2	559.9	556.5	553.1	549.8	546.6	543.1	540.0
130°	532.2	527.3	523.8	519.5	515.4	511.1	506.9	502.6	498.3	494.1	490.0
132.5°	500.2	495.6	492.4	488.3	484.4	480.3	476.3	472.1	468.1	464.0	460.0
135°	478.8	474.7	472.3	468.5	465.1	461.3	457.7	453.9	450.3	446.5	443.0
137.5°	459.8	455.9	453.8	450.9	448.1	445.2	442.3	439.3	436.4	433.3	430.5
140°	443.3	439.2	437.1	435.5	434.0	432.2	430.7	429.0	427.4	425.8	424.0
142.5°	430.4	426.5	424.7	423.7	422.8	421.8	421.0	419.9	419.0	417.8	416.8
145°	417.3	412.9	410.7	410.7	410.8	410.7	410.7	410.7	410.7	410.6	410.6
147.5°	407.7	403.3	401.3	401.6	401.8	402.0	402.5	402.6	403.0	403.2	403.4
150°	397.3	392.3	390.0	390.5	391.0	391.5	392.1	392.6	393.1	393.7	394.2
152.5°	388.3	382.3	379.6	380.2	380.9	381.4	382.0	382.6	383.3	384.1	384.6
155°	380.5	374.1	371.3	371.5	371.8	372.0	372.2	372.6	373.0	373.3	373.7
157.5°	375.3	368.8	366.2	366.1	366.2	366.3	366.4	366.5	366.7	366.9	367.2
160°	371.8	365.2	362.7	362.6	362.7	362.8	362.8	362.8	363.0	363.2	363.4
162.5°	368.3	361.9	359.5	359.4	359.4	359.3	359.4	359.4	359.6	359.6	359.9
165°	365.6	360.1	358.0	358.1	358.3	358.4	358.6	358.9	359.1	359.3	359.7
167.5°	366.3	361.5	359.9	359.6	359.4	359.1	359.1	358.9	358.9	358.8	358.8
170°	364.9	361.2	359.6	359.7	359.9	359.9	359.9	360.0	360.1	360.1	360.3
172.5°	364.4	361.6	360.4	360.8	361.2	361.4	361.8	362.0	362.4	362.7	363.1
175°	364.8	363.1	362.6	362.6	362.8	363.0	363.2	363.3	363.4	363.6	364.0
177.5°	366.5	366.0	365.6	365.6	365.6	365.6	365.6	365.6	365.6	365.7	365.7
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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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°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20163.1	20186.6	20184.9	20206.8	20205.7	20226.4	20222.2	20240.1	20236.0	20251.3	20242.4
5°	20824.5	20869.2	20884.0	20924.4	20932.7	20968.8	20969.5	20998.3	20994.8	21017.2	21005.3
7.5°	21450.2	21491.9	21511.7	21543.1	21558.7	21584.7	21594.9	21616.2	21621.3	21633.9	21633.6
10°	*21503.0*	*21502.8*	*21512.6*	*21508.2*	*21517.0*	*21512.0*	*21522.7*	*21518.8*	*21534.6*	*21530.5*	*21542.4*
12.5°	20792.5	20722.0	20696.3	20633.0	20619.1	20564.7	20568.6	20533.8	20550.5	20529.1	20565.6
15°	19265.6	19102.0	19021.2	18879.0	18834.3	18721.9	18712.8	18638.2	18658.3	18619.2	18676.4
17.5°	17009.2	16751.7	16610.4	16402.7	16320.3	16161.2	16129.4	16033.3	16048.2	15999.7	16068.7
20°	14319.0	14007.8	13829.6	13589.4	13482.2	13292.7	13242.4	13134.9	13148.4	13100.2	13178.3
22.5°	11598.0	11272.4	11071.1	10819.4	10682.6	10504.3	10450.9	10342.9	10348.9	10303.8	10378.8
25°	9097.7	8785.4	8590.1	8361.3	8242.7	8079.3	8023.1	7926.1	7931.6	7894.3	7961.6
27.5°	7037.7	6781.5	6618.0	6426.4	6320.0	6185.7	6130.9	6049.3	6049.0	6021.6	6077.9
30°	5499.6	5285.8	5139.0	4972.1	4872.2	4750.9	4698.0	4625.0	4621.8	4602.4	4647.1
32.5°	4306.1	4115.9	3982.0	3835.2	3745.4	3641.4	3591.2	3532.6	3527.3	3509.7	3546.4
35°	3347.4	3187.2	3072.1	2948.5	2957.6	2804.1	2829.6	2710.4	2678.1	2671.0	2698.3
37.5°	2587.2	2463.1	2369.6	2277.0	2214.3	2149.4	2114.4	2083.1	2079.5	2076.5	2095.6
40°	2025.1	1938.2	1870.2	1806.7	1763.5	1723.9	1702.1	1684.9	1680.7	1678.5	1690.0
42.5°	1639.0	1580.4	1536.6	1497.8	1471.6	1450.0	1438.0	1428.5	1425.3	1425.3	1432.1
45°	1384.7	1349.1	1320.9	1296.9	1280.1	1287.4	1265.8	1277.1	1262.1	1277.7	1267.4
47.5°	1219.4	1189.2	1171.6	1154.6	1144.5	1136.3	1136.6	1136.8	1140.0	1140.4	1143.8
50°	1091.9	1074.4	1062.2	1051.4	1046.1	1041.8	1043.2	1044.3	1047.5	1047.7	1050.1
52.5°	997.5	986.0	978.7	971.9	969.6	967.2	968.2	967.7	969.1	968.4	970.3
55°	920.7	915.3	913.0	910.5	910.9	910.2	910.6	908.1	906.6	904.9	906.5
57.5°	857.7	856.9	858.5	859.5	862.4	863.5	864.1	861.3	858.6	856.2	857.6
60°	809.1	810.3	814.1	817.3	821.4	823.4	824.5	822.9	820.9	819.0	820.2
62.5°	761.2	763.0	767.6	771.1	776.2	778.8	781.7	781.8	782.5	781.8	782.6
65°	705.6	707.9	712.0	714.9	719.6	721.9	724.8	725.4	727.0	726.6	728.0
67.5°	663.3	665.4	668.9	671.6	675.7	678.2	680.7	680.9	681.5	681.4	682.7
70°	618.2	619.3	622.3	624.7	628.8	631.2	634.2	635.2	637.0	637.3	638.7
72.5°	570.2	569.7	571.6	572.6	575.8	577.7	581.5	583.6	586.7	587.5	588.6
75°	517.8	517.4	519.6	520.5	523.2	525.1	529.3	532.1	536.9	538.9	538.4
77.5°	457.3	458.3	462.5	464.8	468.4	470.8	476.2	480.6	489.4	493.3	489.3
80°	389.5	390.6	394.9	397.1	401.8	404.7	410.8	416.0	423.9	425.6	423.4
82.5°	306.2	306.5	310.4	312.0	318.1	322.5	330.3	334.3	339.2	338.5	337.9
85°	208.8	211.6	216.5	221.3	228.7	235.8	243.2	249.2	244.9	251.7	244.1
87.5°	111.6	111.3	117.8	116.8	127.2	133.2	139.6	142.6	146.0	145.3	145.4
90°	45.9	43.6	42.9	40.4	40.2	37.6	37.9	35.4	36.2	33.3	37.5
92.5°	50.8	48.6	46.2	44.0	41.6	39.4	37.0	34.8	32.4	30.2	32.4
95°	62.2	60.0	58.0	55.7	53.7	51.5	49.5	47.3	45.2	43.1	45.7
97.5°	76.7	75.5	74.3	73.1	71.8	70.5	69.3	68.1	66.9	65.7	67.4
100°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	88.0
102.5°	166.3	162.2	158.2	154.1	150.1	146.0	142.0	137.9	133.9	129.8	135.8
105°	376.3	360.4	344.4	328.6	312.7	296.8	280.9	265.1	249.2	233.3	249.7
107.5°	699.0	669.9	640.9	612.0	583.0	554.1	525.1	496.3	467.3	438.4	464.3
110°	975.6	944.9	914.1	883.4	852.7	821.9	791.2	760.5	729.9	699.2	723.9

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

Scaled Data Report

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1087.4	1067.5	1047.6	1027.9	1008.0	988.2	968.5	948.8	929.0	909.3	921.3
115°	1072.3	1062.9	1053.4	1044.1	1034.6	1025.1	1015.7	1006.4	997.0	987.7	988.4
117.5°	983.0	979.8	976.6	973.4	970.3	967.2	964.2	961.2	958.2	955.2	948.4
120°	854.3	855.2	856.2	857.2	858.3	859.5	860.5	861.7	862.9	864.1	855.1
122.5°	727.3	729.6	731.9	734.4	736.8	739.3	741.8	744.4	747.1	749.7	740.7
125°	616.7	619.0	621.3	623.7	625.9	628.5	631.0	633.6	636.2	638.9	631.3
127.5°	536.7	537.6	538.2	539.3	540.1	541.1	542.3	543.5	544.7	546.0	541.2
130°	485.8	484.9	484.1	483.4	482.6	482.0	481.6	481.1	480.6	480.3	478.3
132.5°	455.9	454.0	452.1	450.2	448.4	446.8	445.1	443.7	442.2	440.9	440.3
135°	439.1	436.5	433.9	431.4	428.8	426.5	424.1	422.0	419.8	417.8	418.1
137.5°	427.6	425.0	422.3	419.7	417.2	415.0	412.5	410.3	408.2	406.2	406.9
140°	422.5	419.7	417.2	414.7	412.3	409.9	407.7	405.5	403.3	401.4	401.8
142.5°	415.8	413.6	411.0	408.9	406.5	404.4	402.3	400.4	398.3	396.5	397.1
145°	410.6	408.8	407.0	405.3	403.7	402.1	400.4	399.1	397.7	396.5	396.8
147.5°	403.6	402.4	401.0	399.8	398.4	397.4	396.2	395.2	394.2	393.2	393.3
150°	394.7	393.9	393.0	392.2	391.5	390.7	390.0	389.3	388.6	388.0	387.9
152.5°	385.3	384.5	383.7	382.9	382.3	381.5	380.9	380.3	379.7	379.1	379.0
155°	374.1	373.7	373.4	373.2	372.8	372.6	372.2	372.2	372.0	371.8	371.9
157.5°	367.4	367.4	367.2	367.2	367.1	367.2	367.0	367.2	367.0	367.2	367.3
160°	363.8	363.5	363.3	363.2	363.0	362.7	362.6	362.5	362.4	362.2	362.6
162.5°	360.1	360.3	360.4	360.5	360.7	360.9	361.1	361.4	361.6	361.9	362.0
165°	360.1	360.0	359.9	359.8	359.8	359.9	359.8	359.9	359.9	360.0	360.4
167.5°	358.7	358.9	359.0	359.3	359.5	359.8	360.1	360.4	360.8	361.3	361.7
170°	360.4	360.4	360.4	360.4	360.4	360.4	360.5	360.6	360.7	360.9	361.2
172.5°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.4	363.4	363.5	363.7
175°	364.0	364.4	364.6	364.8	364.9	365.0	365.2	365.4	365.6	365.8	365.8
177.5°	365.7	365.8	365.8	365.8	365.8	365.9	365.9	365.9	365.9	365.8	366.0
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20257.3	20247.1	20257.5	20247.0	20257.5	20244.9	20253.4	20239.7	20243.2	20229.1	20232.7
5°	21023.2	21007.0	21015.6	20994.6	20996.9	20968.8	20968.3	20935.7	20927.1	20889.9	20873.6
7.5°	21642.6	21637.3	21640.2	21626.7	21625.2	21606.0	21596.9	21570.0	21553.0	21518.8	21495.4
10°	*21544.5*	*21560.3*	*21564.3*	*21580.5*	*21583.8*	*21599.8*	*21603.1*	*21619.1*	*21622.3*	*21634.1*	*21634.3*
12.5°	20563.9	20617.5	20630.4	20696.6	20724.4	20800.2	20840.8	20924.4	20973.9	21057.2	21108.4
15°	18674.8	18767.5	18804.5	18933.9	19005.4	19156.4	19251.2	19424.5	19546.9	19731.0	19862.3
17.5°	16074.8	16204.4	16263.0	16438.3	16552.7	16775.5	16936.1	17200.4	17402.8	17696.6	17929.4
20°	13191.6	13335.6	13415.1	13615.2	13750.1	14010.4	14211.0	14535.8	14806.7	15178.9	15497.2
22.5°	10402.3	10539.4	10627.5	10831.1	10983.1	11254.7	11478.7	11821.5	12125.0	12544.5	12926.1
25°	7987.0	8112.6	8192.4	8376.4	8519.2	8768.7	8982.7	9312.4	9609.3	10030.1	10421.4
27.5°	6105.9	6211.2	6288.0	6444.9	6570.9	6782.5	6966.3	7238.8	7494.7	7858.7	8207.2
30°	4674.6	4767.9	4842.7	4979.4	5096.1	5279.5	5441.2	5670.1	5881.8	6171.4	6448.7
32.5°	3572.2	3652.5	3719.1	3838.7	3944.7	4109.8	4255.5	4456.1	4637.8	4883.5	5111.6
35°	2723.7	2881.7	2870.5	3035.5	3062.1	3180.6	3310.5	3486.0	3647.0	3855.8	4050.0
37.5°	2114.1	2158.5	2206.0	2279.0	2355.6	2463.5	2573.3	2787.6	2866.2	3024.1	3184.8
40°	1704.7	1734.8	1766.2	1815.5	1869.2	1945.2	2025.1	2127.4	2232.2	2360.1	2490.8
42.5°	1441.2	1458.2	1478.2	1507.2	1540.2	1588.5	1642.0	1711.3	1784.1	1874.3	1966.2
45°	1287.6	1279.5	1285.5	1301.1	1321.0	1350.3	1384.1	1427.0	1474.4	1532.7	1594.9
47.5°	1144.5	1147.7	1149.5	1158.0	1168.6	1188.3	1208.7	1237.9	1294.2	1311.3	1345.2
50°	1050.0	1051.5	1051.0	1055.3	1060.6	1073.5	1086.7	1106.4	1126.1	1152.2	1177.2
52.5°	970.7	972.9	972.6	975.4	978.3	986.4	994.8	1008.7	1021.6	1038.2	1052.5
55°	908.0	911.1	912.4	914.7	916.1	920.3	923.7	930.3	935.8	945.2	953.9
57.5°	860.0	864.1	866.1	866.8	865.1	865.0	863.8	865.2	866.4	871.4	876.3
60°	822.1	825.4	825.9	825.4	822.3	820.1	816.5	815.4	814.8	817.3	819.9
62.5°	782.4	783.6	782.8	781.8	778.2	776.1	772.4	771.1	769.8	771.5	772.9
65°	727.5	728.6	727.5	727.0	723.8	722.0	718.9	717.9	716.1	716.6	716.3
67.5°	683.0	684.0	683.2	682.4	680.1	679.1	676.8	675.4	673.2	672.4	670.9
70°	638.6	639.4	638.1	637.3	634.8	633.8	631.6	631.2	629.5	629.2	627.4
72.5°	587.5	587.5	585.7	585.3	583.4	583.3	582.4	583.3	583.2	584.0	583.7
75°	535.2	534.5	532.2	531.9	530.5	531.1	530.2	531.4	531.6	533.5	533.7
77.5°	482.9	480.1	475.8	473.9	471.1	470.7	469.1	470.1	469.8	472.0	472.9
80°	416.7	413.4	407.9	405.4	402.0	401.5	400.1	401.5	400.7	403.3	405.2
82.5°	332.7	329.8	324.2	322.1	318.2	318.6	317.0	318.6	318.4	322.2	324.5
85°	246.1	244.2	238.4	233.2	227.5	224.2	221.0	220.4	219.4	221.0	222.3
87.5°	142.1	140.3	135.8	132.9	122.9	123.3	119.3	119.1	118.2	117.3	119.3
90°	37.8	41.5	42.1	45.4	46.3	50.1	51.1	54.9	55.7	59.8	61.1
92.5°	34.8	37.0	39.3	41.6	43.9	46.2	48.5	50.8	55.7	60.5	65.6
95°	48.3	51.1	53.7	56.3	58.9	61.6	64.3	66.9	74.1	81.3	88.5
97.5°	69.2	70.9	72.7	74.5	76.2	77.9	79.7	81.5	89.3	97.0	104.8
100°	89.4	90.8	92.2	93.7	95.1	96.5	97.9	99.3	114.4	129.4	144.3
102.5°	141.8	147.8	153.8	159.8	165.8	171.8	177.8	183.8	218.3	252.6	287.0
105°	266.1	282.5	298.9	315.4	331.8	348.2	364.7	381.1	436.1	491.2	546.4
107.5°	490.3	516.1	542.1	568.1	594.1	620.0	646.0	672.0	725.7	779.4	833.1
110°	748.5	773.3	798.0	822.8	847.4	872.3	896.9	921.8	954.0	986.2	1018.5

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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	933.2	945.2	957.3	969.4	981.5	993.6	1005.7	1017.8	1033.8	1050.0	1066.0
115°	989.2	989.9	990.7	991.5	992.3	993.1	994.1	995.0	1000.0	1005.1	1010.1
117.5°	941.9	935.2	928.7	922.0	915.5	909.1	902.6	896.2	895.1	894.0	893.1
120°	846.4	837.5	828.6	819.7	811.0	802.2	793.6	785.0	780.5	776.1	771.6
122.5°	731.9	723.1	714.3	705.4	696.8	688.1	679.6	671.1	668.0	664.7	661.6
125°	623.9	616.5	609.2	601.9	594.7	587.6	580.6	573.5	573.3	572.8	572.7
127.5°	536.6	532.1	527.6	523.3	519.0	514.7	510.5	506.3	508.1	509.9	511.6
130°	476.1	474.2	472.3	470.3	468.6	466.9	465.2	463.6	466.8	469.9	473.1
132.5°	440.0	439.5	439.3	438.9	438.9	438.8	438.8	438.7	442.4	446.1	449.8
135°	418.6	419.1	419.8	420.3	421.1	421.9	422.8	423.6	427.2	430.6	434.3
137.5°	407.7	408.6	409.5	410.5	411.7	412.8	414.0	415.1	418.0	420.7	423.5
140°	402.6	403.1	403.9	404.8	405.7	406.4	407.6	408.5	410.8	412.9	415.1
142.5°	397.8	398.3	399.0	399.9	400.8	401.5	402.5	403.3	404.9	406.5	408.2
145°	397.3	397.6	398.3	398.7	399.3	400.0	400.6	401.3	402.4	403.3	404.3
147.5°	393.6	393.9	394.3	394.5	395.0	395.4	395.8	396.1	396.9	397.4	398.0
150°	388.0	388.0	388.2	388.3	388.5	388.7	388.9	389.1	389.7	390.1	390.8
152.5°	379.2	379.2	379.3	379.4	379.6	379.6	379.7	379.9	380.5	381.0	381.5
155°	372.1	372.3	372.6	372.9	373.3	373.4	373.7	374.0	374.4	374.7	375.1
157.5°	367.6	367.8	368.1	368.2	368.6	368.9	369.2	369.3	369.7	370.0	370.3
160°	363.1	363.5	363.9	364.3	364.8	365.2	365.7	366.2	366.4	366.7	367.0
162.5°	362.4	362.7	363.0	363.2	363.4	363.8	364.0	364.3	364.8	365.2	365.8
165°	360.9	361.3	361.9	362.1	362.7	363.2	363.5	364.0	364.3	364.6	364.8
167.5°	362.1	362.4	363.0	363.3	363.8	364.2	364.7	365.1	365.4	365.5	365.9
170°	361.6	362.0	362.4	362.7	363.2	363.4	363.9	364.3	364.8	365.1	365.6
172.5°	364.0	364.4	364.8	364.8	365.2	365.6	366.0	366.3	366.6	367.0	367.3
175°	365.8	365.8	365.9	366.0	366.1	366.1	366.1	366.3	366.3	366.4	366.4
177.5°	366.2	366.3	366.5	366.6	366.8	367.0	367.2	367.4	367.4	367.4	367.4
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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

Scaled Data Report

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20218.6	20219.4	20203.1	20202.2	20186.9	20185.0	20170.2	20165.6	20153.5	20149.2	20136.8
5°	20831.9	20812.1	20766.2	20739.2	20693.9	20663.8	20614.7	20582.7	20535.3	20499.6	20451.9
7.5°	21452.3	21421.5	21370.0	21328.2	21265.3	21215.1	21141.3	21081.0	21001.2	20932.2	20848.4
10°	*21634.3*	*21629.5*	*21616.4*	*21597.3*	*21568.0*	*21535.1*	*21485.0*	*21432.7*	*21362.8*	*21286.9*	*21193.7*
12.5°	21186.6	21234.9	21300.9	21339.9	21387.5	21408.3	21427.8	21422.9	21410.1	21371.7	21317.8
15°	20052.5	20188.3	20368.3	20507.6	20668.0	20784.5	20913.3	20993.5	21073.5	21110.4	21133.1
17.5°	18248.4	18505.6	18828.2	19095.5	19403.9	19651.6	19923.1	20127.5	20337.7	20488.4	20624.5
20°	15931.1	16303.8	16760.0	17162.9	17631.6	18038.8	18485.0	18851.4	19229.1	19524.5	19804.1
22.5°	13417.6	13860.2	14411.6	14922.5	15526.6	16069.5	16682.0	17215.2	17771.8	18236.9	18686.5
25°	10945.9	11431.3	12034.4	12604.4	13288.5	13920.0	14646.5	15310.9	16030.3	16655.0	17272.0
27.5°	8689.0	9165.5	9781.2	10387.9	11111.3	11784.3	12562.6	13294.6	14113.9	14869.2	15642.0
30°	6833.9	7238.1	7790.1	8377.8	9091.4	9776.1	10562.9	11315.8	12167.9	12992.8	13863.2
32.5°	5414.4	5722.3	6156.2	6653.2	7311.6	7963.3	8712.5	9439.3	10278.5	11111.7	12017.0
35°	4300.0	4540.1	4871.1	5258.9	5816.3	6378.2	7040.9	7701.8	8484.8	9275.4	10155.3
37.5°	3390.8	3585.6	3844.8	4136.1	4583.3	5044.4	5587.7	6135.7	6816.0	7516.8	8314.3
40°	2647.8	2805.6	3007.3	3224.6	3562.3	3917.6	4337.8	4762.7	5309.3	5882.1	6542.1
42.5°	2080.1	2196.5	2339.0	2497.7	2812.7	3001.4	3286.3	3593.7	3995.5	4411.3	4907.5
45°	1670.4	1749.9	1848.7	1955.2	2101.4	2261.4	2456.6	2661.2	3042.9	3230.1	3532.0
47.5°	1395.0	1448.3	1511.2	1578.3	1664.5	1757.5	1873.3	1991.6	2144.7	2303.3	2489.3
50°	1209.5	1263.7	1285.3	1320.0	1369.9	1423.1	1488.3	1553.6	1635.7	1718.9	1814.6
52.5°	1071.8	1089.5	1113.0	1135.0	1166.0	1226.4	1246.0	1280.2	1326.2	1371.2	1421.5
55°	966.7	978.1	993.5	1006.8	1025.4	1043.3	1069.2	1091.8	1122.6	1149.6	1183.1
57.5°	884.8	892.1	902.7	911.5	923.6	933.7	948.8	961.1	978.8	994.1	1014.4
60°	825.3	830.2	837.3	843.0	850.8	856.1	863.6	869.3	878.6	886.4	897.7
62.5°	776.8	779.2	783.9	787.3	792.2	794.9	798.8	801.4	806.5	810.4	816.7
65°	718.5	719.1	722.2	723.6	727.4	728.9	732.1	733.3	737.6	740.5	746.0
67.5°	670.8	669.4	669.5	668.3	668.9	667.8	668.1	666.8	668.6	669.5	673.7
70°	627.1	625.3	624.7	622.7	622.1	620.0	619.4	617.6	617.4	616.7	618.2
72.5°	584.7	584.1	584.3	582.9	582.7	581.3	581.4	580.5	581.5	581.9	583.9
75°	535.8	536.0	536.9	535.6	536.0	534.9	535.2	534.2	534.8	534.5	536.5
77.5°	476.3	477.7	480.3	479.8	480.6	479.3	479.9	478.3	478.8	477.7	478.5
80°	409.4	412.4	415.9	415.7	417.2	416.3	417.6	416.1	416.7	415.0	414.5
82.5°	330.0	332.5	336.3	336.4	339.7	340.3	343.9	343.8	346.0	344.5	343.5
85°	225.7	227.3	230.6	232.4	235.7	237.8	241.3	242.7	240.2	244.8	241.1
87.5°	117.8	122.2	119.7	125.4	124.1	129.9	128.6	133.9	132.9	137.5	136.9
90°	65.9	67.5	72.5	74.4	80.0	82.3	83.2	80.4	81.0	78.3	79.0
92.5°	70.3	75.5	80.5	85.3	90.3	95.4	90.7	86.1	81.5	77.0	72.3
95°	95.7	103.0	110.3	117.5	124.7	131.9	124.1	116.4	108.8	101.0	93.2
97.5°	112.6	120.3	128.0	135.8	143.7	151.5	142.3	133.1	123.9	114.8	105.8
100°	159.3	174.4	189.4	204.4	219.5	234.5	217.4	200.4	183.2	166.1	149.0
102.5°	321.6	355.9	390.4	424.8	459.2	493.6	457.4	421.2	385.0	348.6	312.3
105°	601.4	656.5	711.6	766.7	821.9	877.0	818.2	759.4	700.6	641.8	582.9
107.5°	886.9	940.5	994.4	1048.0	1101.9	1155.6	1096.0	1036.4	976.7	917.0	857.4
110°	1050.8	1083.0	1115.3	1147.7	1179.9	1212.3	1168.7	1125.2	1081.6	1038.0	994.5

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1082.2	1098.3	1114.4	1130.6	1146.7	1162.9	1131.7	1100.6	1069.4	1038.3	1007.0
115°	1015.2	1020.3	1025.4	1030.5	1035.5	1040.7	1019.6	998.5	977.5	956.6	935.3
117.5°	892.0	891.1	890.0	889.2	888.1	887.2	875.4	863.5	851.7	839.8	828.0
120°	767.1	762.8	758.3	753.9	749.5	744.9	739.9	734.8	729.7	724.6	719.4
122.5°	658.4	655.4	652.2	649.1	645.9	642.7	640.7	638.7	636.6	634.5	632.4
125°	572.3	572.1	571.8	571.6	571.2	570.9	569.8	568.7	567.6	566.5	565.4
127.5°	513.2	515.1	516.7	518.4	520.1	521.7	521.4	521.0	520.6	520.2	519.8
130°	476.2	479.5	482.6	485.6	488.7	491.9	491.0	490.5	489.7	489.1	488.2
132.5°	453.5	457.1	460.8	464.5	468.0	471.6	470.7	469.9	468.9	468.2	467.3
135°	437.6	441.2	444.6	448.1	451.4	454.8	453.6	452.7	451.6	450.7	449.5
137.5°	426.2	429.0	431.6	434.4	437.0	439.7	438.6	437.5	436.4	435.5	434.4
140°	417.2	419.3	421.3	423.6	425.5	427.7	426.4	425.1	423.9	422.5	421.1
142.5°	409.7	411.4	412.8	414.4	415.9	417.5	415.6	413.9	412.2	410.6	408.9
145°	405.3	406.3	407.2	408.2	409.0	410.0	408.0	406.2	404.1	402.2	400.3
147.5°	398.6	399.1	399.5	400.2	400.5	401.2	399.2	397.4	395.6	393.7	391.8
150°	391.2	391.7	392.1	392.6	393.0	393.6	391.5	389.7	387.7	385.8	384.0
152.5°	382.0	382.4	382.7	383.2	383.6	384.1	382.1	380.6	378.6	376.7	375.1
155°	375.2	375.5	375.7	376.0	376.1	376.3	374.7	373.4	371.8	370.3	368.7
157.5°	370.5	370.7	371.0	371.1	371.3	371.5	370.4	369.3	368.0	366.9	365.7
160°	367.2	367.5	367.7	367.8	368.0	368.1	367.2	366.3	365.3	364.3	363.3
162.5°	366.1	366.4	366.8	367.2	367.6	367.9	366.7	365.7	364.6	363.3	362.0
165°	365.0	365.2	365.4	365.7	365.7	366.0	365.2	364.4	363.5	362.8	361.9
167.5°	366.0	366.3	366.4	366.6	366.7	366.9	366.2	365.4	364.6	363.7	362.9
170°	365.9	366.1	366.5	366.8	367.1	367.4	366.7	366.2	365.4	364.8	364.1
172.5°	367.7	367.8	368.0	368.4	368.6	369.0	368.2	367.6	366.9	366.3	365.5
175°	366.4	366.5	366.7	366.7	366.7	366.8	366.3	365.8	365.2	364.7	364.2
177.5°	367.4	367.4	367.4	367.3	367.3	367.3	366.9	366.5	366.3	365.9	365.4
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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TEST NUMBER: P1444446
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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8	20006.8
2.5°	20132.5	20123.7	20118.1	20110.9	20106.5	20100.9	20096.9	20093.3	20090.5	20088.0	20086.0
5°	20415.6	20370.5	20335.6	20297.8	20266.7	20235.7	20211.8	20192.1	20178.4	20168.2	20162.1
7.5°	20776.0	20693.6	20620.3	20543.2	20474.1	20406.1	20347.6	20297.1	20259.1	20234.6	20219.7
10°	*21097.9*	*20987.6*	*20878.5*	*20763.7*	*20654.9*	*20549.3*	*20451.9*	*20366.2*	*20298.3*	*20253.2*	*20226.9*
12.5°	21242.1	21148.2	21036.8	20912.2	20778.8	20643.8	20512.3	20393.7	20294.1	20227.3	20188.7
15°	21115.0	21076.5	21000.9	20904.2	20777.6	20638.0	20483.6	20338.5	20204.9	20118.3	20068.1
17.5°	20701.6	20755.5	20749.7	20712.7	20621.7	20504.3	20346.9	20183.8	20016.8	19901.0	19837.8
20°	20004.1	20173.3	20259.1	20303.3	20267.5	20191.3	20048.8	19883.3	19688.6	19537.5	19445.2
22.5°	19023.8	19322.5	19508.7	19644.9	19673.9	19647.9	19522.0	19364.7	19147.6	18965.9	18829.7
25°	17761.8	18199.5	18493.7	18724.4	18814.0	18837.1	18730.1	18573.5	18331.6	18120.0	17932.8
27.5°	16275.4	16844.1	17236.9	17546.9	17686.7	17747.4	17648.9	17489.2	17202.9	16950.3	16705.9
30°	14602.0	15276.7	15749.6	16121.3	16291.8	16372.0	16267.3	16089.0	15756.0	15451.9	15144.1
32.5°	12810.8	13549.2	14064.6	14468.2	14637.2	14712.6	14575.7	14375.4	13990.4	13632.3	13273.3
35°	10935.6	11680.9	12200.6	12593.4	12735.0	12780.5	12605.4	12373.9	11947.4	11554.4	11162.9
37.5°	9022.1	9715.5	10187.8	10540.4	10628.1	10636.0	10424.9	10169.3	9721.1	9333.5	8943.8
40°	7125.2	7710.0	8091.4	8373.5	8404.0	8376.8	8147.4	7890.2	7470.8	7123.6	6781.5
42.5°	5338.4	5779.8	6051.9	6245.3	6233.8	6180.2	5969.8	5748.8	5402.7	5138.3	4869.0
45°	3807.6	4098.7	4257.8	4371.0	4334.6	4283.5	4119.7	3964.8	3729.7	3558.8	3378.0
47.5°	2645.2	2992.8	2932.3	3153.5	2962.9	3088.8	2826.6	2682.1	2557.3	2466.5	2364.3
50°	1893.7	1973.4	2011.9	2038.1	2024.1	2004.8	1957.7	1915.6	1858.6	1817.0	1768.6
52.5°	1462.5	1502.3	1524.1	1539.9	1536.8	1529.7	1509.2	1490.4	1463.7	1446.2	1424.9
55°	1238.8	1239.4	1279.5	1262.3	1287.7	1257.9	1269.6	1236.6	1242.0	1213.6	1194.6
57.5°	1029.3	1045.7	1053.0	1060.2	1058.2	1056.9	1048.9	1045.0	1036.0	1033.3	1026.9
60°	905.5	914.0	915.8	919.1	916.3	915.3	909.1	906.8	900.8	899.7	895.5
62.5°	820.6	824.9	824.9	824.9	821.3	817.9	811.0	807.3	802.3	801.2	798.7
65°	749.6	754.1	754.9	755.8	753.3	750.6	744.5	740.6	735.3	733.3	730.5
67.5°	676.5	681.3	682.9	685.4	683.9	683.3	679.2	677.6	674.1	673.3	670.8
70°	619.0	620.9	620.9	620.8	617.5	614.6	609.8	607.5	603.9	603.1	600.7
72.5°	584.8	586.2	585.3	584.0	579.8	575.5	569.9	565.8	561.0	558.0	554.7
75°	536.6	538.5	537.4	536.5	532.7	529.9	525.4	523.2	519.8	518.8	516.5
77.5°	477.6	478.5	476.5	476.3	473.4	471.6	468.3	467.6	465.2	465.3	463.0
80°	411.8	411.3	408.2	407.6	404.7	403.9	401.3	401.5	399.5	400.3	398.8
82.5°	338.8	337.0	332.9	331.8	328.4	328.1	326.3	327.8	326.6	328.4	327.4
85°	242.8	243.4	241.6	241.6	240.6	240.9	240.7	241.9	242.0	243.6	243.5
87.5°	135.4	137.3	136.9	138.7	138.6	140.7	141.3	144.3	144.6	147.4	147.4
90°	76.3	77.2	74.5	75.5	74.3	76.4	75.7	77.8	76.6	78.4	76.6
92.5°	67.7	63.1	58.6	54.0	51.7	49.2	47.3	44.6	42.5	40.0	37.7
95°	85.4	77.7	70.0	62.2	59.6	56.9	54.1	51.5	48.9	46.3	43.6
97.5°	96.6	87.4	78.2	69.0	66.7	64.4	62.0	59.8	57.4	55.2	52.8
100°	131.9	114.7	97.8	80.6	78.6	76.7	74.7	72.8	70.9	68.9	67.0
102.5°	276.0	239.8	203.5	167.1	160.3	153.3	146.5	139.5	132.6	125.7	118.9
105°	524.1	465.3	406.3	347.4	328.7	310.1	291.3	272.7	253.9	235.3	216.6
107.5°	797.7	737.8	678.1	618.3	583.9	549.3	514.7	480.1	445.6	410.9	376.4
110°	950.9	907.2	863.6	819.8	792.2	764.3	736.4	708.5	680.8	652.8	625.0

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TEST NUMBER: P1444446
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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°	975.8	944.6	913.3	881.9	869.4	856.7	844.1	831.4	818.8	806.0	793.4
115°	914.2	893.2	872.0	850.6	846.3	841.8	837.3	832.7	828.3	823.7	819.2
117.5°	816.1	804.2	792.2	780.2	780.9	781.5	782.3	782.9	783.5	783.9	784.6
120°	714.2	709.1	703.9	698.8	702.6	706.3	710.1	713.6	717.3	720.8	724.5
122.5°	630.3	628.2	626.1	623.8	628.4	633.0	637.5	641.9	646.3	650.5	654.9
125°	564.3	563.1	561.9	560.6	565.3	569.8	574.3	578.7	583.2	587.4	591.7
127.5°	519.4	519.0	518.6	518.1	521.5	524.5	527.7	530.7	533.8	536.6	539.5
130°	487.6	486.8	486.2	485.4	488.2	491.1	494.0	496.6	499.5	501.9	504.4
132.5°	466.5	465.5	464.7	463.8	465.9	467.8	469.9	471.6	473.4	475.0	476.7
135°	448.6	447.4	446.4	445.2	447.2	449.1	450.8	452.4	454.2	455.6	457.1
137.5°	433.3	432.2	431.1	429.9	431.6	433.2	434.9	436.4	437.8	439.2	440.5
140°	420.0	418.7	417.5	416.1	417.6	419.0	420.5	421.7	423.0	424.0	425.3
142.5°	407.2	405.3	403.8	401.9	403.1	404.0	405.1	406.0	406.9	407.7	408.4
145°	398.3	396.3	394.4	392.5	393.3	394.0	394.8	395.7	396.1	396.7	397.4
147.5°	390.0	388.1	386.2	384.2	385.0	385.5	385.9	386.4	387.0	387.4	387.7
150°	382.0	379.9	378.1	376.0	376.6	377.0	377.4	377.9	378.3	378.6	378.9
152.5°	373.1	371.2	369.4	367.5	367.9	368.3	368.6	368.9	369.3	369.5	369.7
155°	367.2	365.6	364.0	362.3	362.8	363.1	363.3	363.6	363.8	364.0	364.2
157.5°	364.5	363.1	361.9	360.6	360.7	360.8	360.9	360.8	360.8	360.8	360.8
160°	362.3	361.1	360.1	358.9	358.9	359.0	359.1	359.0	358.9	358.9	358.9
162.5°	360.8	359.6	358.4	357.1	357.1	357.3	357.3	357.2	357.1	357.0	357.0
165°	361.1	360.2	359.2	358.2	358.1	358.0	357.9	357.6	357.4	357.2	357.0
167.5°	361.9	361.1	360.1	359.0	359.2	359.3	359.3	359.3	359.2	359.1	359.1
170°	363.4	362.6	361.9	361.1	361.0	360.9	360.8	360.6	360.4	360.3	360.1
172.5°	364.8	364.0	363.3	362.4	362.4	362.3	362.2	362.1	361.9	361.8	361.7
175°	363.5	363.0	362.3	361.8	361.7	361.7	361.6	361.5	361.3	361.3	361.1
177.5°	365.0	364.8	364.3	363.9	363.8	363.8	363.7	363.6	363.6	363.6	363.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	20006.8	20006.8
2.5°	20084.3	20083.2
5°	20158.9	20157.7
7.5°	20215.7	20215.4
10°	*20222.4*	*20225.9*
12.5°	20182.0	20184.9
15°	20064.2	20069.7
17.5°	19838.9	19846.1
20°	19450.9	19458.3
22.5°	18822.4	18825.5
25°	17908.7	17895.7
27.5°	16663.0	16640.7
30°	15079.4	15057.9
32.5°	13191.4	13177.9
35°	11066.2	11057.7
37.5°	8828.6	8811.2
40°	6656.3	6605.8
42.5°	4751.2	4662.4
45°	3283.4	3178.3
47.5°	2292.2	2227.2
50°	1737.4	1716.4
52.5°	1415.7	1410.8
55°	1194.5	1192.3
57.5°	1028.3	1027.6
60°	897.7	897.5
62.5°	800.3	800.7
65°	731.8	731.9
67.5°	671.4	671.0
70°	601.6	601.1
72.5°	553.6	552.8
75°	516.5	516.0
77.5°	463.8	462.9
80°	399.8	398.8
82.5°	328.9	327.7
85°	245.3	245.3
87.5°	150.1	150.0
90°	78.2	76.2
92.5°	35.6	33.5
95°	40.9	38.3
97.5°	50.6	48.2
100°	65.1	63.1
102.5°	111.9	105.1
105°	197.9	179.2
107.5°	341.8	307.2
110°	597.1	569.2

TEST NUMBER: P1444446
CATALOG NUMBER: EHBR1-24-UNV-TA-L830-UPL30

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	780.7	767.9
115°	814.4	809.8
117.5°	785.0	785.5
120°	727.7	731.3
122.5°	659.0	663.1
125°	595.7	600.0
127.5°	542.3	544.9
130°	506.6	509.0
132.5°	478.1	479.5
135°	458.3	459.5
137.5°	441.5	442.6
140°	426.1	427.0
142.5°	409.0	409.6
145°	397.7	398.2
147.5°	387.7	388.1
150°	379.1	379.3
152.5°	369.8	370.1
155°	364.3	364.4
157.5°	360.6	360.5
160°	358.7	358.6
162.5°	356.8	356.7
165°	356.6	356.3
167.5°	358.9	359.0
170°	359.8	359.7
172.5°	361.5	361.3
175°	361.0	361.0
177.5°	363.5	363.3
180°	365.5	365.5

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: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

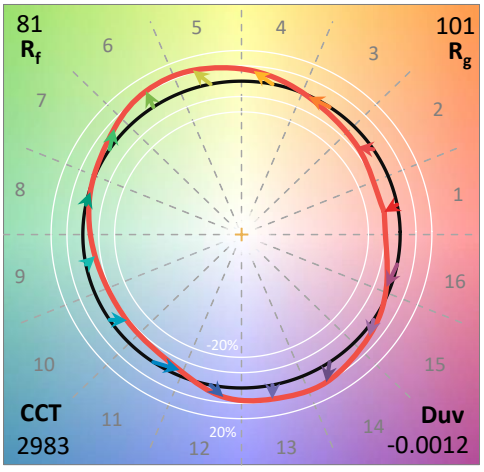
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
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-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983	CRI (Ra):	83.4		
CIE u':	0.2516	R1:	84.0	R9:	29.4
CIE v':	0.5201	R2:	87.5	R10:	68.6
Duv:	-0.0012	R3:	88.9	R11:	82.2
CIE x:	0.4364	R4:	83.8	R12:	61.6
CIE y:	0.4010	R5:	81.9	R13:	83.9
CIE z:	0.1626	R6:	83.1	R14:	92.5
Peak Wavelength (nm):	630	R7:	87.1	R15:	79.8
Dominant Wavelength (nm):	583	R8:	70.9		
Purity:	51.34918				

Rf:	81.2
Rg:	101.5



Test Conditions

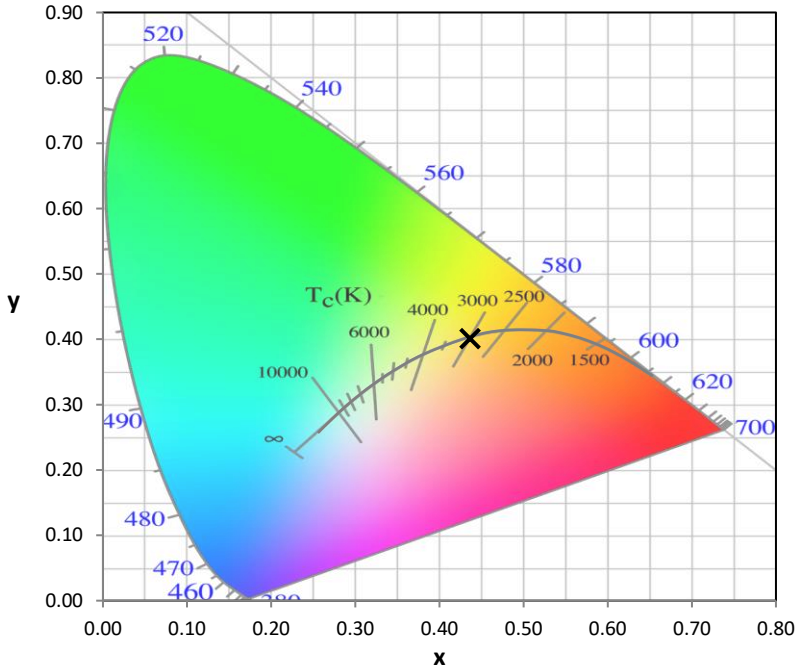
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

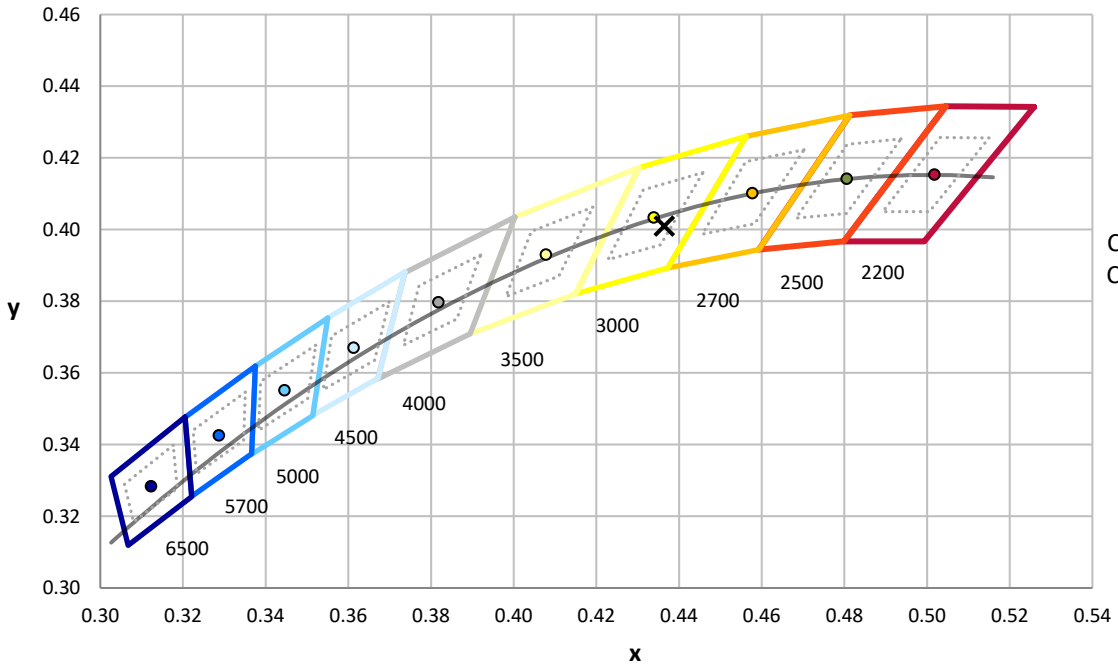
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

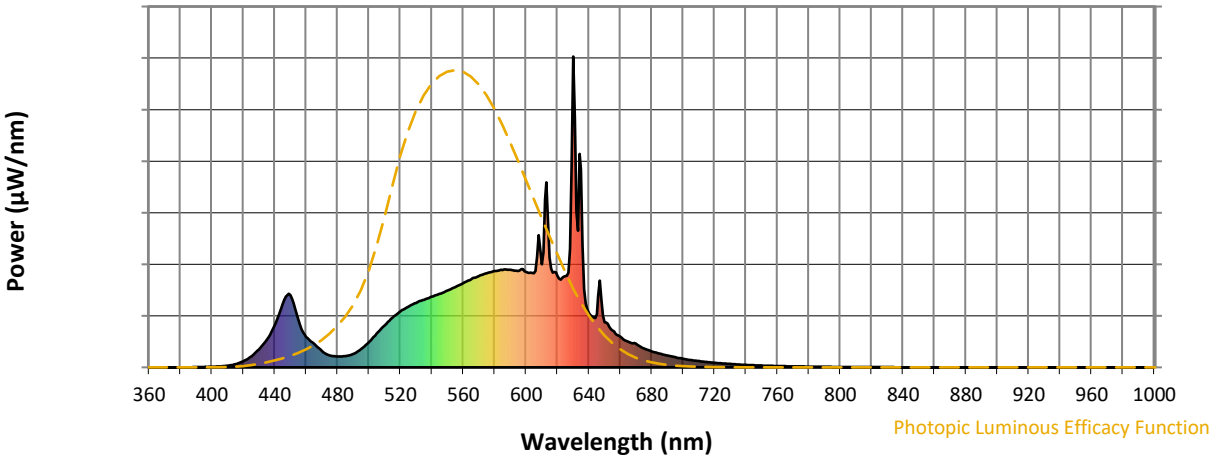


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

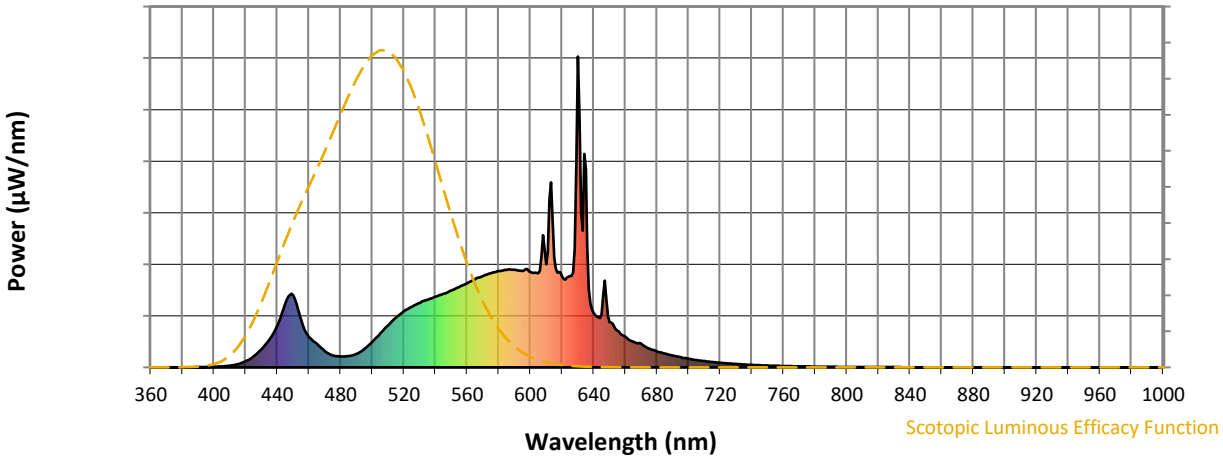


Photopic Lumens: NR

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength

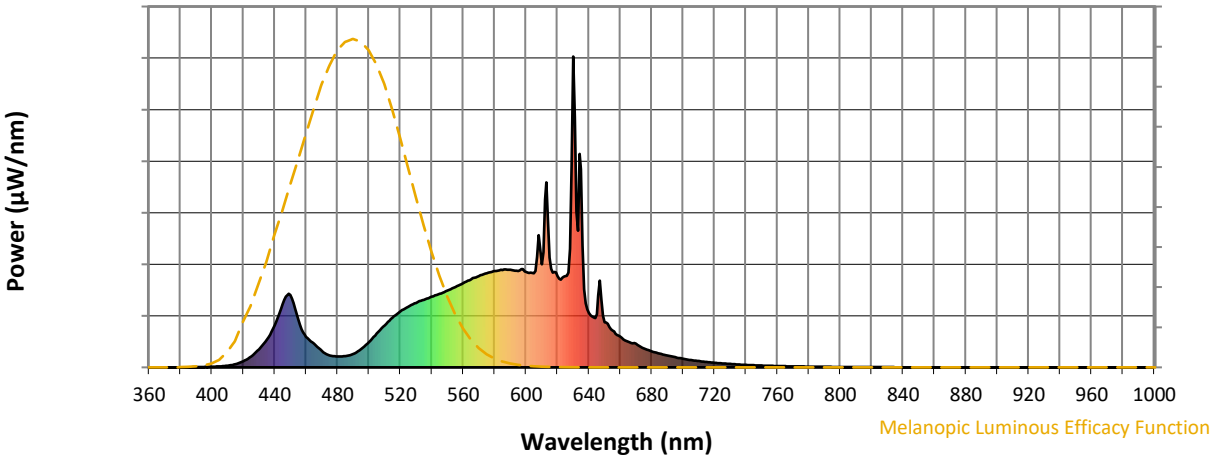


Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

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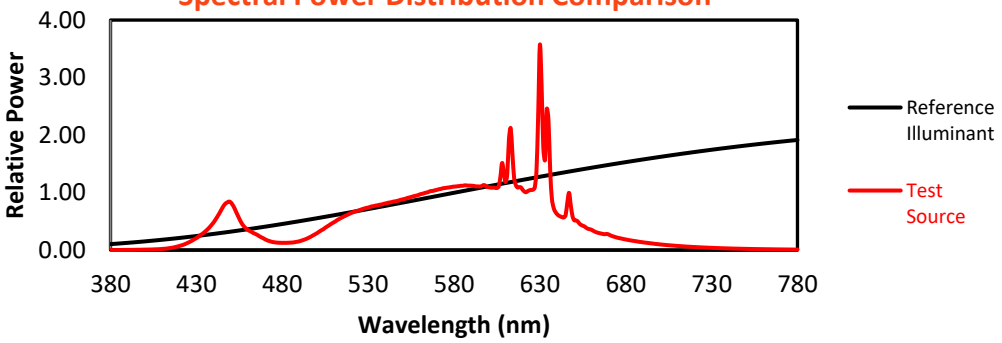
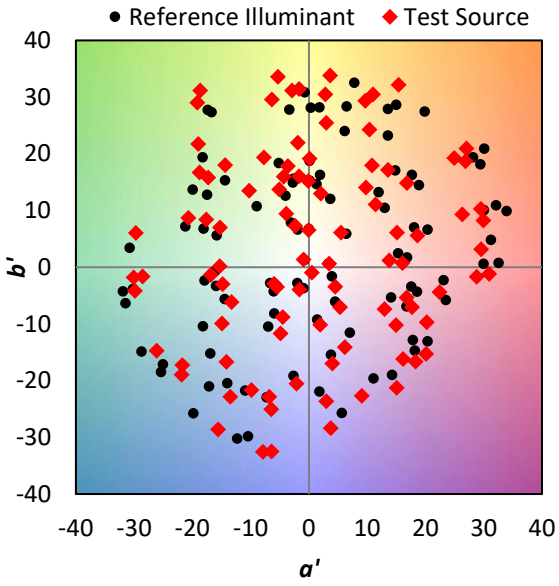
Summary

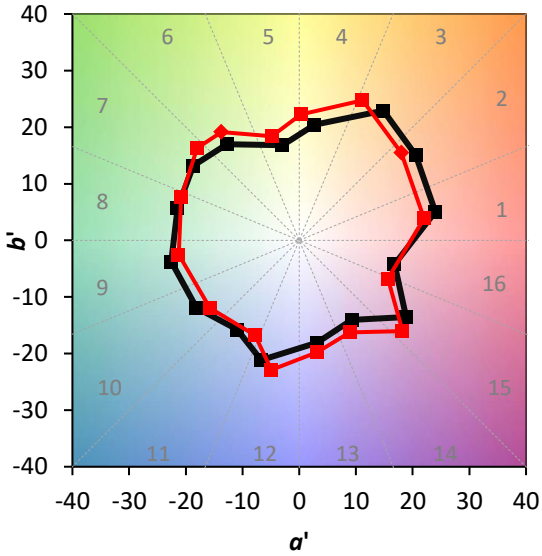
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

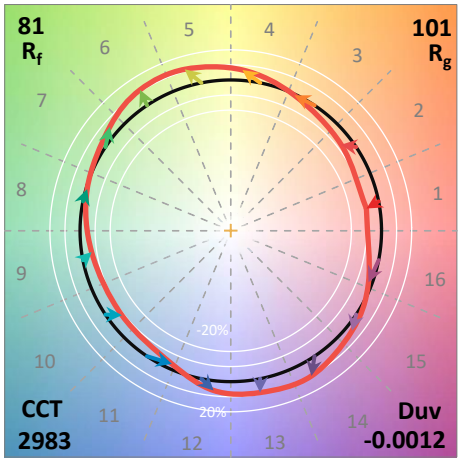
Spectral Power Distribution Comparison

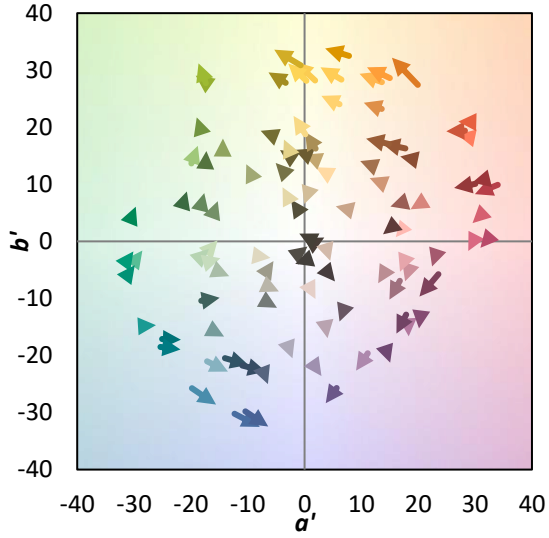


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-2

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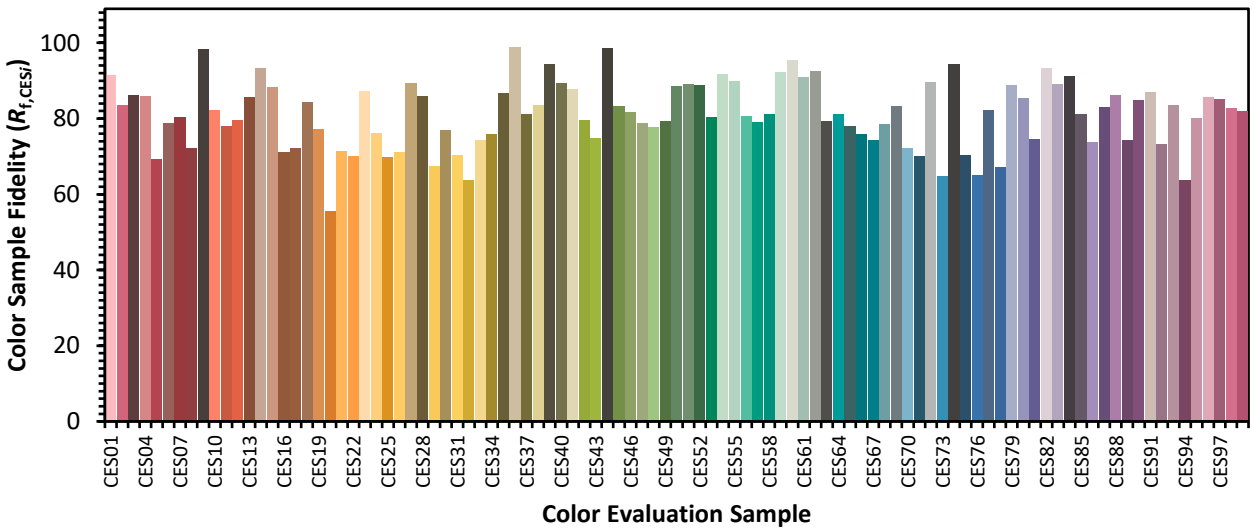
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



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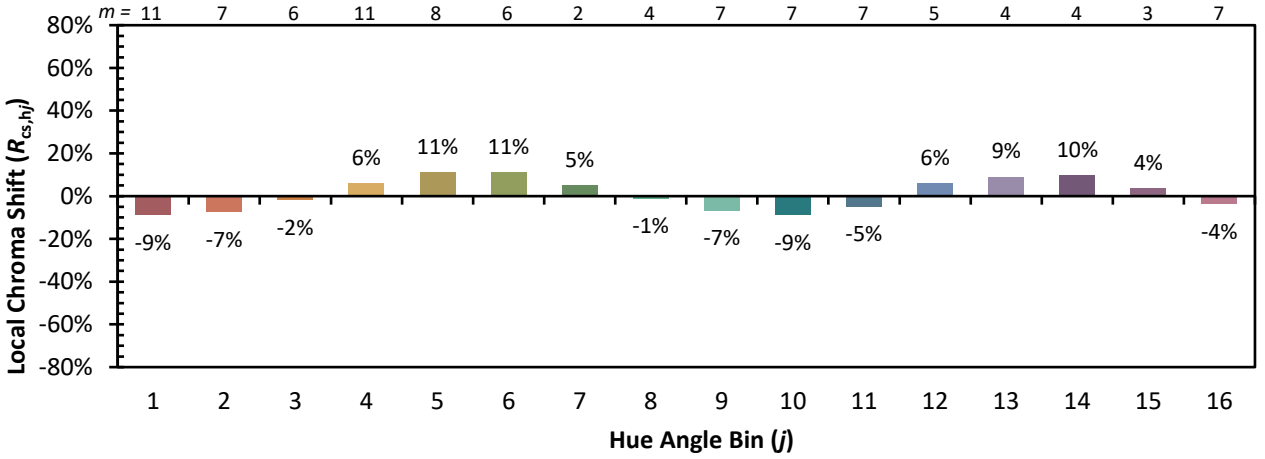
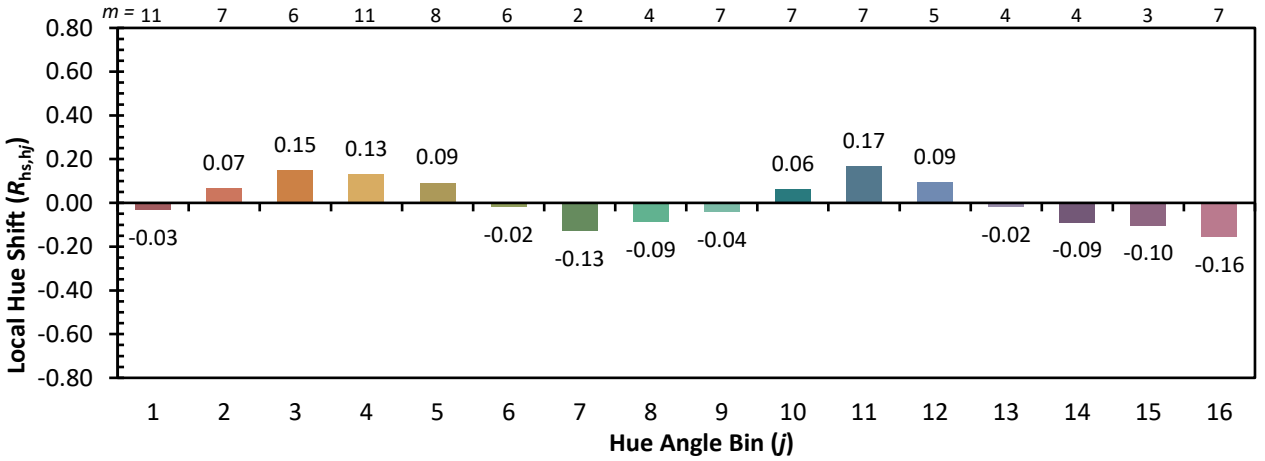
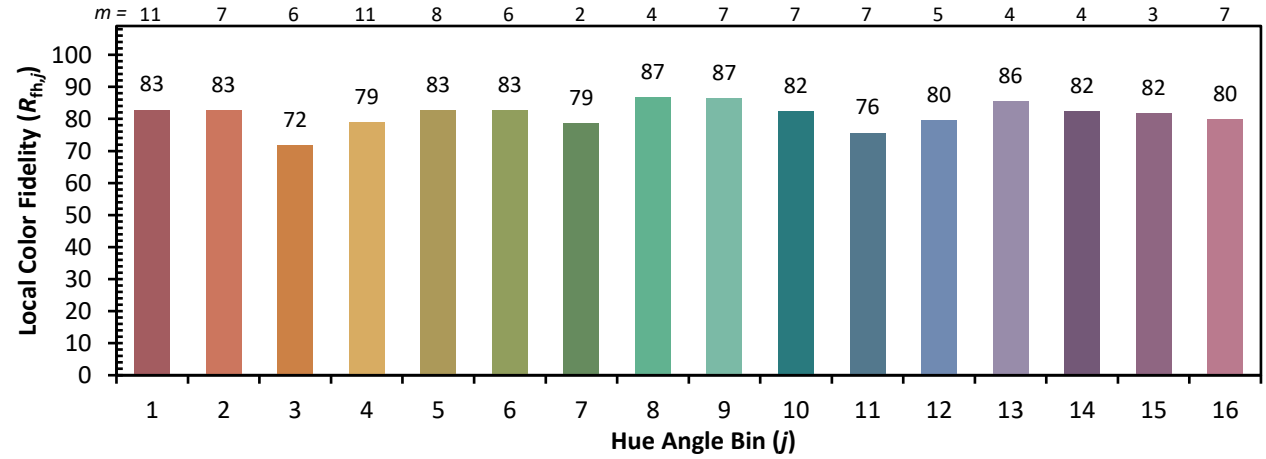
Color Rendition by Hue-Angle Bin







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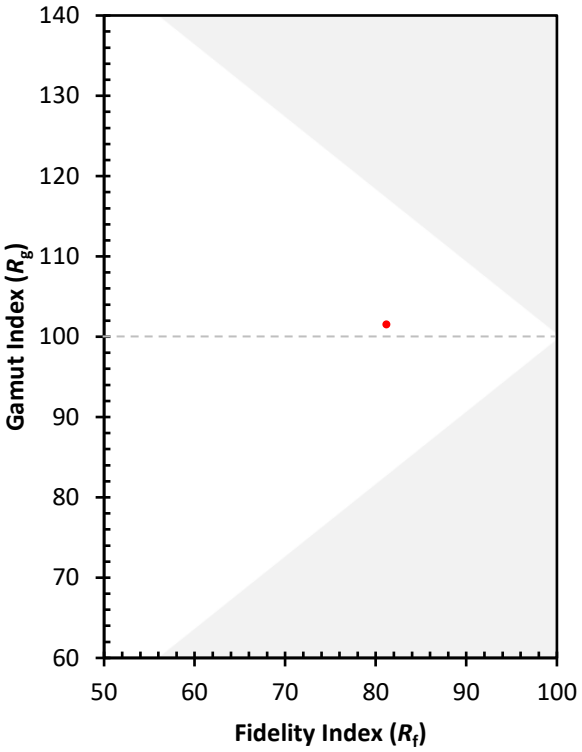
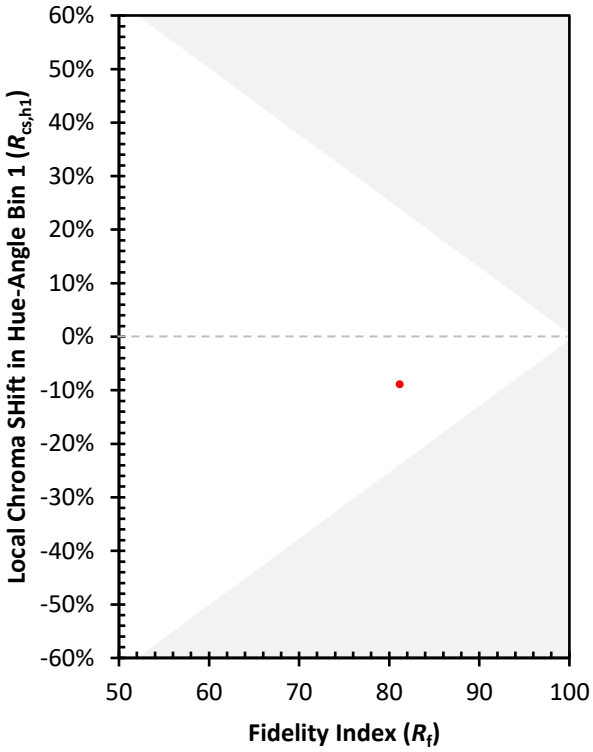
TM-30-18

Measure Comparisons





(END OF REPORT)