

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

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244093

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B15D010 EC8B15830 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1570.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

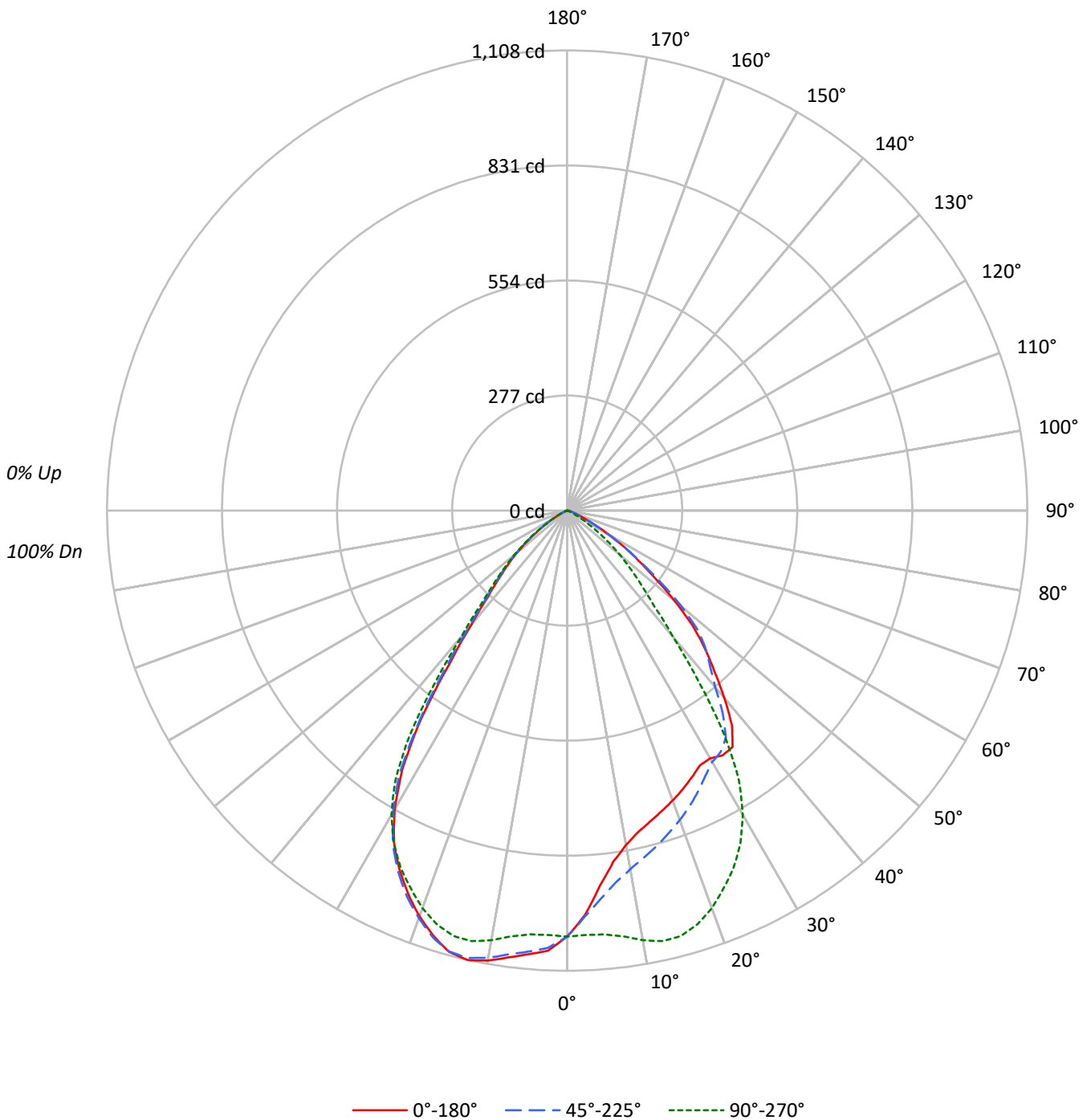
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	31626	31626	31626
5°	28060	31706	33192
10°	25585	32884	34453
15°	24725	33843	35110
20°	24372	33426	34118
25°	24133	32275	32476
30°	24526	30120	29564
35°	26144	24924	23117
40°	23689	15957	14451
45°	20448	10915	10165
50°	16133	7963	7498
55°	11199	4898	4607
60°	7129	2479	2208
65°	3561	985	744
70°	1965	487	270
75°	1418	357	131
80°	1154	231	53
85°	1238	177	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	6.1
10°-20°	276.1	17.6
20°-30°	400.7	25.5
30°-40°	394.7	25.1
40°-50°	247.4	15.8
50°-60°	119.4	7.6
60°-70°	28.9	1.8
70°-80°	5.8	0.4
80°-90°	1.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	772.4	49.2
0°-40°	1167.1	74.3
0°-60°	1533.9	97.7
0°-90°	1570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1026	1026	1026	1026	1026	
5°	906	937	1024	1066	1072	84
15°	774	835	1060	1099	1100	219
25°	709	746	949	962	954	328
35°	694	666	662	624	614	420
45°	469	472	250	240	233	358
55°	208	215	91	90	86	192
65°	49	48	14	12	10	56
75°	12	10	3	1	1	13
85°	4	3	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	975.0	968.8	957.2	971.2	971.2	963.4	979.0	969.6	977.1	989.0	978.5
5°	906.5	901.4	891.7	906.5	908.4	901.1	920.0	913.0	924.1	938.6	937.3
7.5°	852.4	845.9	837.0	852.4	855.3	850.5	868.5	865.3	879.9	898.7	902.0
10°	817.1	810.3	802.5	816.5	818.7	815.5	833.8	831.9	846.2	868.0	876.6
12.5°	792.0	786.3	777.7	792.5	795.0	790.4	807.6	806.8	821.7	844.6	855.3
15°	774.5	767.8	759.9	772.6	775.8	770.7	787.2	785.5	800.6	823.3	835.4
17.5°	758.1	751.9	743.8	755.6	758.9	753.5	769.6	766.9	779.9	801.4	813.8
20°	742.7	736.0	728.7	740.8	742.7	736.5	752.7	749.2	760.7	780.7	792.8
22.5°	726.8	719.8	712.2	724.1	726.0	719.8	734.6	730.6	741.3	759.4	770.4
25°	709.3	702.8	695.3	706.3	707.9	701.2	716.8	711.7	721.1	737.0	746.2
27.5°	691.8	685.6	677.2	688.5	689.3	682.9	697.2	690.1	698.0	712.5	720.3
30°	688.8	681.8	673.2	682.3	682.6	674.2	687.7	679.4	683.7	694.5	699.0
32.5°	698.2	691.2	682.3	689.9	689.1	679.9	692.8	682.6	683.9	689.6	688.5
35°	694.5	686.1	675.6	683.7	683.7	672.6	685.6	673.4	672.1	672.9	666.2
37.5°	651.6	645.1	635.2	643.0	642.2	633.8	643.8	633.8	629.2	627.4	615.2
40°	588.5	580.7	573.2	581.5	582.4	573.5	586.4	575.1	573.7	568.3	554.1
42.5°	524.7	522.0	514.7	521.7	525.5	517.9	528.7	523.3	524.1	522.8	509.3
45°	468.9	464.3	458.9	467.0	469.4	465.7	476.4	473.2	476.4	483.2	472.1
47.5°	408.8	404.2	398.3	406.9	411.2	404.2	413.4	412.3	417.2	428.7	427.7
50°	336.3	333.1	332.0	333.1	335.8	332.5	339.0	339.3	342.5	358.4	359.5
52.5°	266.2	265.4	261.7	265.2	265.2	260.1	266.5	263.6	266.8	277.6	284.6
55°	208.3	207.5	205.1	208.3	204.8	202.9	204.8	201.8	199.4	207.8	215.0
57.5°	162.2	159.5	156.6	157.9	157.6	153.6	155.8	152.3	150.4	153.3	159.8
60°	115.6	114.8	112.1	113.5	114.5	111.6	113.7	112.1	108.9	111.3	111.6
62.5°	76.8	77.3	75.7	76.0	75.2	74.6	76.0	76.8	76.0	74.9	75.2
65°	48.8	48.5	48.2	48.5	49.0	48.0	48.8	49.3	48.5	48.5	48.2
67.5°	32.3	31.5	30.7	31.3	31.8	31.0	31.8	31.5	31.8	31.5	30.7
70°	21.8	21.6	21.3	21.6	21.6	21.0	21.6	21.3	21.6	21.3	20.5
72.5°	15.9	15.9	15.6	15.9	15.9	15.4	15.6	15.1	15.4	15.1	14.6
75°	11.9	11.9	11.6	11.9	11.6	11.3	11.6	11.3	10.8	10.8	10.2
77.5°	8.6	8.6	8.6	8.6	8.6	8.4	8.4	8.1	7.8	7.5	7.5
80°	6.5	6.2	6.2	6.2	6.2	5.9	6.2	5.9	5.7	5.4	5.1
82.5°	4.6	4.9	4.6	4.6	4.6	4.3	4.6	4.3	4.3	4.0	3.5
85°	3.5	3.5	3.5	3.5	3.5	3.2	3.2	3.2	3.0	3.0	2.7
87.5°	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.6	1.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	992.5	993.9	990.9	995.5	1013.3	999.0	1004.9	1006.8	1020.3	1022.7	1021.1
5°	954.8	960.7	964.5	974.7	994.4	984.1	994.7	1001.4	1018.6	1024.3	1025.6
7.5°	925.1	937.5	946.7	963.4	986.6	978.8	994.7	1005.7	1026.7	1034.0	1037.5
10°	903.0	921.9	937.8	960.7	986.8	981.7	1002.5	1018.1	1041.5	1050.2	1054.5
12.5°	886.3	909.2	930.5	959.6	987.9	985.5	1010.6	1028.3	1053.1	1061.8	1066.9
15°	868.0	894.4	919.2	951.8	982.3	981.7	1008.7	1027.5	1052.9	1060.1	1065.0
17.5°	846.2	874.5	901.7	937.0	967.2	967.7	994.9	1013.5	1038.3	1044.2	1047.5
20°	824.1	852.1	879.3	915.7	945.3	946.2	972.8	990.1	1013.8	1018.6	1019.5
22.5°	800.6	826.8	854.0	890.1	918.7	919.2	945.6	961.8	982.0	984.4	986.6
25°	774.0	799.6	825.2	861.0	888.2	889.8	913.8	928.1	946.7	948.6	949.4
27.5°	746.2	767.2	791.7	822.5	849.9	848.9	871.5	887.7	904.4	903.3	903.0
30°	718.2	735.7	750.8	780.4	800.6	801.4	822.7	830.5	848.1	845.9	845.6
32.5°	698.5	703.1	707.1	722.2	741.3	734.6	749.2	758.9	771.0	770.2	770.4
35°	662.4	654.0	641.9	644.1	655.7	645.1	653.0	652.7	665.1	662.1	665.6
37.5°	600.7	577.0	550.0	534.7	536.8	523.6	520.9	527.4	531.7	523.3	526.3
40°	534.9	499.9	457.9	422.8	420.9	404.5	401.5	395.1	403.4	396.4	398.6
42.5°	486.4	440.1	384.8	342.2	333.1	319.3	311.3	310.2	312.6	307.7	306.4
45°	449.2	399.9	336.6	287.8	277.6	262.7	254.7	251.7	252.0	250.3	249.0
47.5°	405.6	356.0	291.8	242.0	230.4	216.4	208.3	206.4	207.5	205.3	203.7
50°	345.2	300.7	242.3	196.7	186.5	176.2	169.8	167.9	167.6	166.0	164.9
52.5°	280.3	243.3	192.7	154.7	145.5	135.5	131.0	128.5	128.8	127.2	125.6
55°	216.9	194.0	149.3	117.0	108.6	100.8	96.5	93.5	92.7	91.1	90.3
57.5°	161.4	146.1	111.8	84.3	79.5	72.0	67.6	64.1	63.6	62.8	62.5
60°	113.2	102.1	78.7	60.1	54.4	49.9	45.5	42.0	40.4	40.2	39.3
62.5°	73.3	66.6	51.7	40.2	35.8	32.6	28.3	25.9	24.8	23.7	24.0
65°	45.5	40.4	32.3	25.9	23.4	21.0	17.8	15.6	14.6	13.5	13.7
67.5°	28.3	25.3	20.5	16.7	15.1	13.2	10.8	9.2	8.4	7.5	7.0
70°	19.1	16.4	14.0	11.9	10.8	9.4	7.8	6.5	5.9	5.4	4.9
72.5°	13.5	12.1	10.2	8.9	8.1	7.0	5.9	5.1	4.6	4.0	3.5
75°	9.7	8.6	7.5	6.5	5.9	5.4	4.6	4.0	3.5	3.0	2.4
77.5°	7.0	6.2	5.4	4.9	4.6	3.8	3.2	3.0	2.7	2.2	1.6
80°	4.9	4.3	3.5	3.2	3.2	2.7	2.4	2.2	1.9	1.3	1.1
82.5°	3.2	3.0	2.7	2.4	2.2	1.9	1.9	1.3	1.1	0.8	0.5
85°	2.4	2.2	1.9	1.6	1.6	1.3	1.1	0.8	0.8	0.5	0.3
87.5°	1.3	1.3	1.1	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1034.8	1035.6	1040.2	1036.7	1045.6	1052.1	1048.8	1056.1	1053.7	1053.1	1061.5
5°	1041.8	1043.7	1049.9	1046.7	1056.4	1063.4	1060.1	1068.2	1065.8	1065.3	1073.9
7.5°	1055.3	1057.2	1062.6	1059.9	1070.1	1076.3	1072.3	1081.2	1077.9	1077.7	1086.0
10°	1072.3	1075.0	1079.5	1076.9	1086.3	1091.7	1087.6	1096.3	1093.3	1091.9	1101.1
12.5°	1084.9	1086.8	1091.4	1089.2	1098.4	1102.5	1098.9	1107.3	1103.5	1102.5	1110.5
15°	1082.0	1083.9	1087.6	1085.7	1094.4	1098.1	1093.6	1102.7	1098.9	1096.8	1104.1
17.5°	1063.1	1064.2	1066.9	1065.0	1074.2	1076.6	1071.5	1080.6	1077.1	1073.3	1080.4
20°	1035.4	1034.8	1036.4	1035.6	1043.2	1044.5	1041.3	1048.0	1044.0	1041.8	1045.9
22.5°	1000.9	1000.3	1001.4	999.2	1006.8	1007.6	1002.7	1010.8	1006.8	1002.7	1009.5
25°	962.6	959.6	959.1	959.9	965.0	965.8	960.7	966.6	961.5	958.3	964.7
27.5°	915.4	911.7	910.8	911.7	916.8	913.0	908.7	913.0	907.9	904.9	909.0
30°	857.2	851.8	849.4	847.8	853.2	851.8	841.9	846.7	838.6	834.3	837.3
32.5°	778.8	775.8	769.4	765.6	770.7	760.5	754.3	754.3	751.0	743.8	745.4
35°	669.9	665.4	659.4	656.2	657.0	643.3	633.0	635.2	624.4	622.5	623.3
37.5°	532.2	524.7	522.5	515.8	517.4	505.3	491.3	491.5	485.9	479.9	478.1
40°	399.9	398.6	396.4	390.7	392.9	379.7	374.3	374.6	370.8	366.5	368.7
42.5°	309.1	304.8	303.4	301.6	302.1	299.9	292.9	293.7	290.5	289.4	288.3
45°	251.2	246.6	243.3	245.0	245.0	242.5	239.8	241.5	239.8	237.7	238.8
47.5°	207.0	202.7	201.0	200.8	202.7	201.0	198.3	198.9	198.6	197.8	197.3
50°	165.2	164.1	162.8	162.0	162.8	162.2	159.8	161.2	162.0	159.3	160.1
52.5°	125.8	125.8	125.6	123.7	125.3	123.7	123.4	124.0	123.2	122.1	121.8
55°	92.2	91.4	90.0	89.7	90.3	89.7	89.2	89.5	90.0	87.3	87.3
57.5°	63.1	62.5	61.7	61.7	62.8	61.4	60.6	61.7	60.6	59.6	59.6
60°	40.4	40.2	39.3	39.3	39.3	39.1	38.3	38.5	39.1	37.5	37.7
62.5°	24.3	23.4	23.2	22.9	23.2	22.9	22.9	22.6	22.4	22.4	21.6
65°	13.2	12.7	12.1	12.4	12.4	12.1	12.1	12.1	11.6	11.3	11.0
67.5°	6.7	6.2	6.2	5.9	5.9	5.9	5.9	5.7	5.7	5.7	5.4
70°	4.3	4.0	3.8	3.8	3.8	3.5	3.5	3.5	3.5	3.5	3.2
72.5°	3.0	2.7	2.4	2.4	2.4	2.2	2.2	2.2	2.2	1.9	1.9
75°	2.2	1.9	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.5
80°	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82.5°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P244093

CATALOG NUMBER: LSR8B15D010 EC8B15830 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1058.5	1056.4	1057.7	1067.7	1063.4	1062.0	1050.7	1060.7
5°	1071.2	1069.6	1069.6	1080.9	1075.8	1074.7	1063.6	1072.3
7.5°	1083.0	1081.4	1081.7	1093.3	1089.2	1087.6	1076.6	1085.2
10°	1098.4	1097.3	1097.6	1108.6	1104.3	1102.7	1091.4	1100.3
12.5°	1107.6	1106.0	1106.0	1117.8	1113.0	1110.5	1099.8	1108.4
15°	1100.6	1098.1	1098.1	1110.0	1104.6	1101.1	1091.7	1099.8
17.5°	1076.6	1074.2	1074.2	1084.4	1080.4	1075.2	1065.5	1073.1
20°	1043.2	1040.2	1039.4	1051.2	1045.6	1041.0	1032.4	1039.7
22.5°	1005.4	1004.1	1001.7	1013.5	1008.4	1003.6	994.4	1000.0
25°	960.2	958.0	955.6	967.2	962.1	957.2	949.9	954.5
27.5°	903.8	904.1	902.8	911.9	906.8	904.1	895.2	902.8
30°	835.7	832.7	831.6	842.4	837.6	834.0	823.0	830.3
32.5°	746.7	742.4	736.8	748.9	740.5	737.6	728.1	738.7
35°	617.4	616.0	610.9	621.2	616.6	611.2	605.3	614.1
37.5°	477.3	478.3	477.8	480.5	477.8	474.3	467.8	464.6
40°	364.3	361.6	359.5	364.3	358.7	358.7	354.9	359.0
42.5°	285.7	284.6	287.3	288.3	285.1	284.6	284.0	283.8
45°	235.8	235.8	236.3	237.4	236.3	235.8	234.2	233.1
47.5°	194.3	195.4	194.3	197.8	195.9	195.4	192.1	193.5
50°	157.4	156.0	157.4	158.5	158.7	157.1	155.5	156.3
52.5°	122.1	119.9	119.4	121.0	119.9	119.9	118.8	118.6
55°	86.0	86.8	85.4	86.8	86.2	85.4	84.6	85.7
57.5°	58.2	58.5	57.9	58.7	57.4	57.7	57.4	57.1
60°	37.7	36.6	36.6	37.5	36.1	36.1	35.8	35.8
62.5°	21.6	21.3	21.3	21.0	20.8	20.8	20.8	20.2
65°	11.0	10.8	10.5	10.5	10.5	10.5	10.2	10.2
67.5°	5.4	5.1	5.1	5.4	5.1	5.1	5.1	5.1
70°	3.2	3.2	3.0	3.2	3.0	3.0	3.0	3.0
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)