

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: P244562

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20935 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

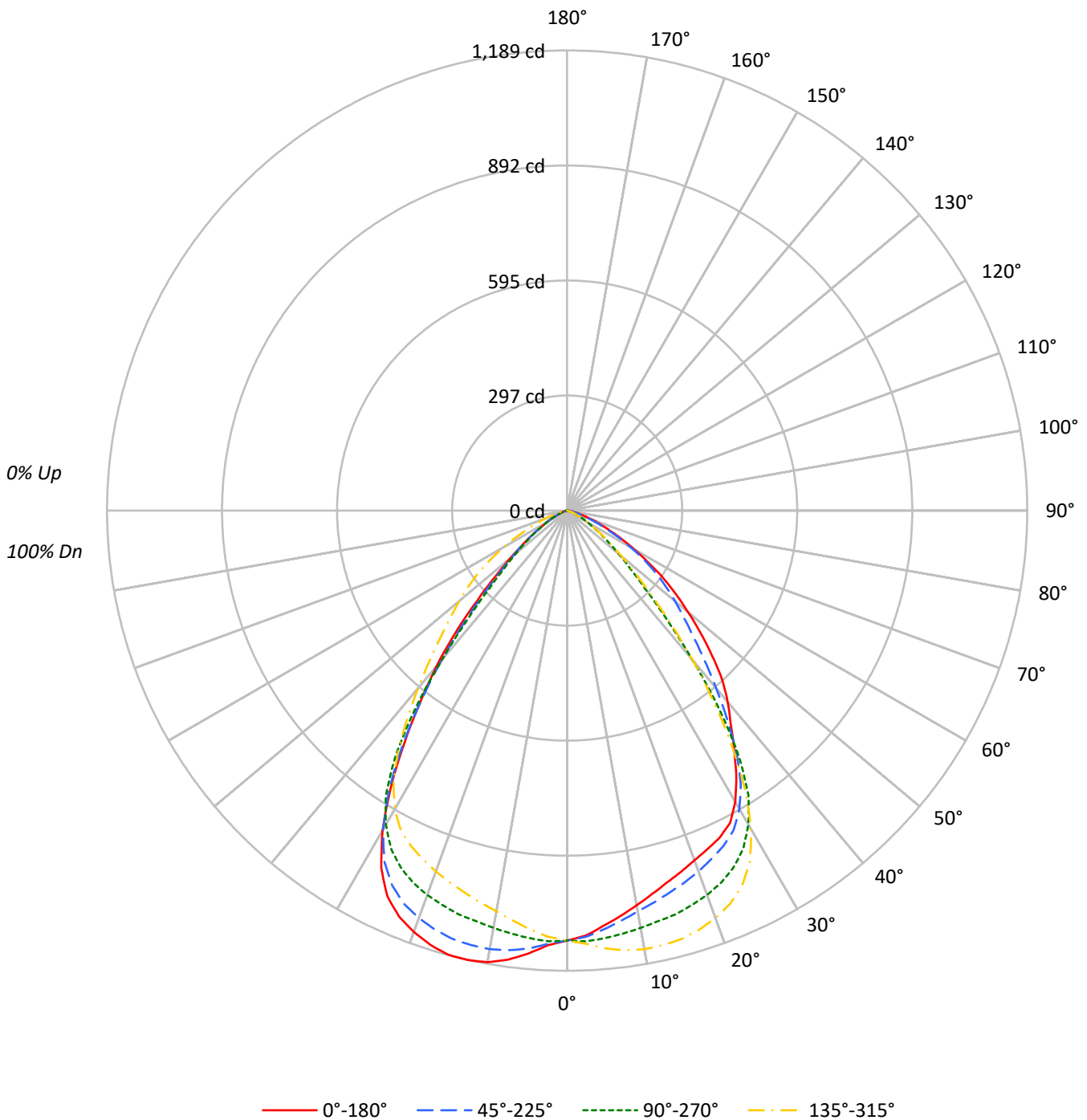
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	34253	34253	34253	34253
5°	33341	34331	35557	34331
10°	32420	34287	37105	34287
15°	31771	34491	37919	34491
20°	31555	34689	38017	34689
25°	31721	34620	37406	34620
30°	30939	33349	33951	33349
35°	28297	29095	27604	29095
40°	25980	20240	21133	20240
45°	23082	12346	14286	12346
50°	19539	8247	9158	8247
55°	16182	5629	5946	5629
60°	12341	3744	3781	3744
65°	8748	2335	2138	2335
70°	6311	1560	1416	1560
75°	4003	774	643	774
80°	2788	586	479	586
85°	2512	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	5.7
10°-20°	306.2	16.4
20°-30°	463.6	24.8
30°-40°	464.6	24.8
40°-50°	291.8	15.6
50°-60°	155.5	8.3
60°-70°	63.9	3.4
70°-80°	16.9	0.9
80°-90°	2.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	875.5	46.8
0°-40°	1340.1	71.6
0°-60°	1787.3	95.5
0°-90°	1871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1111	1111	1111	1111	1111	
5°	1077	1109	1149	1109	1077	102
15°	995	1080	1188	1080	995	281
25°	932	1018	1099	1018	932	428
35°	752	773	733	773	752	471
45°	529	283	328	283	529	407
55°	301	105	111	105	301	268
65°	120	32	29	32	120	124
75°	34	6	5	6	34	38
85°	7	0	0	0	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1099.4	1098.3	1097.7	1098.8	1099.4	1101.5	1101.0	1102.1	1102.1	1102.6	1103.7
5°	1077.1	1076.6	1077.1	1077.1	1079.3	1081.5	1080.9	1082.6	1083.6	1086.4	1087.4
7.5°	1056.5	1056.5	1056.0	1058.1	1059.2	1062.5	1061.9	1064.7	1066.3	1069.0	1072.8
10°	1035.4	1035.4	1035.9	1037.5	1038.1	1043.0	1043.0	1046.8	1048.9	1051.6	1056.5
12.5°	1014.8	1014.8	1018.0	1016.9	1019.1	1022.9	1024.5	1028.3	1031.6	1037.0	1041.9
15°	995.2	995.2	996.3	999.0	1000.7	1005.5	1008.2	1012.6	1016.4	1021.8	1028.9
17.5°	978.4	977.9	978.4	981.7	984.9	989.3	991.4	996.9	1000.7	1007.7	1014.2
20°	961.6	962.7	962.7	965.4	967.6	973.0	975.2	981.1	985.5	992.0	999.6
22.5°	947.0	946.4	946.4	950.2	951.9	956.7	958.9	964.3	969.2	974.6	981.7
25°	932.3	931.2	933.4	933.9	935.0	940.4	942.1	945.9	950.8	955.6	962.7
27.5°	910.6	909.5	910.1	912.2	913.9	918.2	919.3	923.1	926.9	931.2	937.2
30°	868.9	867.8	867.2	871.0	872.7	875.9	877.5	884.1	885.1	890.0	894.3
32.5°	813.5	813.0	814.1	817.3	819.0	823.3	825.5	829.3	832.0	834.7	839.0
35°	751.7	750.6	751.7	755.0	755.0	758.8	760.4	762.0	761.5	762.0	760.9
37.5°	694.2	693.7	694.2	695.8	694.2	695.8	694.2	691.0	685.0	678.5	672.0
40°	645.4	645.9	642.7	644.9	638.9	637.8	631.9	623.7	611.8	598.8	580.3
42.5°	593.3	591.7	589.6	590.6	585.8	581.9	572.2	561.9	546.7	525.0	502.8
45°	529.3	528.8	527.7	527.2	523.9	520.1	512.0	500.1	483.2	461.0	434.4
47.5°	467.0	465.3	465.3	465.9	462.1	461.5	455.0	444.7	430.1	408.4	380.7
50°	407.3	406.8	407.9	410.0	407.3	406.2	401.9	394.8	381.8	363.4	337.3
52.5°	353.6	353.1	354.2	356.9	355.8	356.9	352.5	347.1	338.4	320.5	297.8
55°	301.0	301.0	301.0	304.3	304.3	304.3	302.1	298.9	290.7	277.7	256.5
57.5°	246.2	246.8	250.0	250.6	250.0	251.1	250.6	247.3	241.9	232.7	216.4
60°	200.1	200.1	201.8	203.4	202.8	203.4	203.4	201.8	196.3	188.7	175.7
62.5°	158.4	160.0	158.9	160.0	162.2	160.0	158.9	157.8	154.0	149.1	138.3
65°	119.9	121.0	121.0	121.5	120.4	121.0	118.8	117.2	115.0	109.6	102.5
67.5°	91.1	91.1	91.1	91.1	90.6	90.0	89.5	87.9	84.1	81.9	74.3
70°	70.0	66.7	66.7	66.7	66.7	67.3	65.6	63.5	62.4	58.6	53.2
72.5°	46.6	47.7	46.6	46.6	45.6	46.1	43.9	42.8	41.8	39.6	36.3
75°	33.6	30.9	32.0	32.5	30.9	32.0	29.8	27.7	27.7	26.0	24.4
77.5°	21.7	21.2	21.7	22.2	21.7	21.2	20.1	19.0	19.0	18.4	16.8
80°	15.7	15.2	15.2	15.2	14.6	15.2	14.1	14.1	13.0	12.5	11.4
82.5°	10.3	10.3	9.8	10.3	9.8	10.3	8.7	8.7	8.7	8.1	7.1
85°	7.1	6.0	6.0	6.5	5.4	6.5	6.0	5.4	4.9	4.9	4.3
87.5°	3.3	3.8	3.3	3.8	3.3	3.3	3.8	3.3	3.3	2.2	2.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1105.3	1105.9	1105.9	1108.1	1109.1	1109.7	1109.7	1114.0	1112.4	1113.5	1114.5
5°	1089.6	1092.8	1093.9	1093.9	1099.9	1102.1	1104.2	1109.1	1109.7	1112.9	1116.7
7.5°	1074.4	1078.2	1080.4	1085.3	1089.1	1092.8	1099.4	1102.6	1105.9	1110.2	1115.1
10°	1059.8	1064.1	1068.4	1072.2	1078.2	1083.1	1087.4	1095.0	1098.8	1104.8	1111.3
12.5°	1045.7	1051.6	1055.4	1061.9	1068.4	1072.8	1079.3	1086.4	1092.3	1098.3	1105.9
15°	1033.2	1040.3	1044.6	1051.6	1058.7	1064.7	1071.7	1080.4	1084.7	1091.8	1098.8
17.5°	1019.6	1027.2	1032.7	1039.2	1047.8	1054.3	1060.3	1069.0	1074.4	1082.0	1090.1
20°	1005.5	1013.1	1019.6	1026.1	1034.8	1041.3	1048.4	1057.1	1063.0	1070.6	1077.1
22.5°	988.7	995.8	1002.8	1010.4	1019.1	1024.5	1032.7	1040.3	1046.8	1053.8	1060.3
25°	967.0	975.7	981.1	988.2	995.2	1001.2	1009.9	1017.5	1022.9	1029.4	1035.4
27.5°	941.5	948.1	952.4	958.3	965.4	970.8	977.3	984.9	990.4	996.3	1000.7
30°	898.1	904.1	907.9	912.2	919.3	924.2	929.6	936.6	940.4	944.8	948.6
32.5°	841.2	846.1	848.2	851.5	856.4	861.3	865.6	871.6	873.2	875.9	875.9
35°	758.8	759.8	759.3	760.4	762.6	765.3	769.1	772.9	775.0	775.0	773.4
37.5°	662.2	655.7	648.7	643.2	641.6	640.5	642.7	644.3	646.5	647.6	644.9
40°	561.9	547.3	531.5	517.4	507.6	503.3	501.7	502.8	502.8	506.6	506.6
42.5°	475.7	452.9	429.6	408.4	394.3	383.5	378.6	378.6	379.1	381.8	383.5
45°	404.1	375.3	348.2	324.9	305.3	291.2	284.7	283.1	282.6	283.6	287.4
47.5°	349.3	319.5	291.2	262.5	241.9	227.8	221.8	219.6	217.5	219.6	220.2
50°	306.4	275.5	245.7	216.9	195.2	182.8	175.2	171.9	171.4	171.4	172.5
52.5°	267.4	238.6	208.8	179.5	156.7	144.8	137.8	136.1	134.0	136.1	136.1
55°	230.5	201.8	172.5	144.8	125.8	113.4	106.8	104.7	103.6	105.2	105.2
57.5°	190.4	166.0	138.9	113.9	94.9	86.2	81.3	78.6	78.1	79.2	78.1
60°	156.2	135.6	112.3	89.5	74.9	65.6	61.8	60.7	59.6	60.7	60.7
62.5°	123.7	106.3	87.3	70.0	57.5	51.0	46.6	46.6	46.1	46.1	46.6
65°	91.7	78.1	64.5	49.9	40.1	35.2	32.0	32.0	31.5	32.0	31.5
67.5°	66.7	57.5	46.6	36.3	28.8	26.0	23.9	22.2	23.3	22.2	21.7
70°	48.8	41.2	33.6	27.7	22.2	19.5	17.9	17.3	16.3	16.3	16.3
72.5°	32.5	27.7	22.8	17.9	14.6	11.9	11.4	10.3	9.2	9.8	10.8
75°	21.7	18.4	16.3	13.0	9.8	9.8	6.5	6.5	5.4	6.5	4.9
77.5°	15.2	12.5	9.8	8.1	6.5	6.0	4.3	4.3	3.8	3.8	3.8
80°	10.8	9.2	7.1	6.0	4.3	4.3	3.8	3.3	2.7	2.7	3.3
82.5°	6.5	4.9	4.9	4.3	2.7	2.2	1.6	2.2	1.1	1.1	1.1
85°	3.8	3.3	2.7	1.6	1.1	1.1	0.5	0.0	0.5	0.5	0.0
87.5°	2.2	1.1	1.1	0.5	0.0	0.5	0.5	0.0	0.0	0.0	1.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1117.3	1116.7	1117.8	1117.8	1121.1	1120.5	1122.1	1122.1	1121.1	1121.6	1123.8
5°	1121.1	1122.7	1125.9	1128.7	1133.5	1135.7	1138.4	1141.1	1141.7	1143.3	1144.9
7.5°	1121.1	1126.5	1130.3	1135.2	1141.7	1145.5	1151.4	1156.3	1158.5	1161.2	1164.4
10°	1118.9	1124.3	1131.4	1136.8	1144.9	1150.9	1156.9	1164.4	1167.7	1172.0	1176.4
12.5°	1114.5	1120.5	1128.1	1135.2	1144.4	1149.8	1157.4	1164.4	1169.3	1175.3	1180.2
15°	1108.1	1115.1	1122.1	1129.2	1138.9	1145.5	1152.5	1160.6	1165.5	1172.0	1176.4
17.5°	1097.7	1105.3	1111.8	1118.3	1127.6	1135.2	1141.7	1149.3	1154.2	1159.6	1165.5
20°	1085.3	1092.3	1099.4	1104.8	1114.0	1120.5	1127.6	1134.6	1138.4	1139.5	1148.7
22.5°	1069.5	1074.4	1079.8	1088.5	1093.9	1099.9	1106.4	1112.9	1116.7	1122.7	1125.9
25°	1043.5	1048.4	1054.3	1058.1	1064.7	1069.5	1076.0	1083.1	1085.3	1089.6	1092.8
27.5°	1007.2	1009.9	1012.6	1015.8	1019.6	1022.4	1026.1	1029.4	1031.6	1033.7	1035.9
30°	949.7	949.7	949.7	947.5	949.1	950.8	951.3	950.8	950.8	950.2	950.2
32.5°	873.7	869.4	864.5	860.2	858.6	856.4	855.3	853.7	851.0	849.3	849.9
35°	771.2	761.5	755.5	750.1	745.8	742.5	740.9	739.2	738.7	736.5	734.3
37.5°	643.2	636.2	631.9	628.6	624.8	621.5	622.1	622.6	624.2	623.2	623.7
40°	507.6	506.0	507.6	503.9	502.8	503.9	506.6	510.4	512.5	514.7	518.5
42.5°	386.2	388.9	392.7	392.7	394.3	396.5	399.7	405.7	408.9	412.7	417.1
45°	290.7	294.0	298.9	300.5	301.6	304.3	308.1	312.9	315.1	318.4	322.2
47.5°	224.0	226.2	228.9	231.6	234.3	235.4	239.2	239.2	241.9	244.1	245.1
50°	174.6	176.8	179.0	180.6	181.7	183.3	184.4	186.0	186.6	187.7	188.2
52.5°	136.7	139.4	139.4	140.5	142.1	143.7	143.2	143.7	144.3	144.3	145.9
55°	106.8	106.8	108.5	108.5	109.6	109.0	109.6	109.6	109.6	109.6	110.1
57.5°	79.7	80.3	81.9	80.8	80.3	81.3	80.3	81.3	80.8	81.9	80.3
60°	61.3	61.3	61.8	61.8	62.4	62.4	62.4	61.8	61.8	61.3	61.3
62.5°	46.1	46.6	47.2	46.6	46.6	46.6	46.1	46.1	45.6	45.0	45.0
65°	30.9	30.4	31.5	30.4	30.9	30.9	30.4	30.9	29.3	29.8	29.3
67.5°	22.2	21.7	21.2	21.7	21.2	20.6	20.6	21.2	21.7	20.1	20.1
70°	14.6	15.2	14.6	15.2	15.7	15.7	15.2	14.6	15.2	14.1	14.6
72.5°	9.2	9.2	9.2	9.2	9.2	9.8	9.8	9.8	8.7	8.7	8.1
75°	4.3	6.0	4.9	4.3	6.0	6.0	5.4	5.4	4.9	4.9	4.9
77.5°	4.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.7	3.3	2.7
80°	2.2	2.2	2.2	1.6	2.2	2.2	2.7	2.2	2.2	1.6	2.7
82.5°	1.1	1.1	1.1	0.0	0.5	1.1	1.1	0.5	1.1	1.1	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P244562

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1123.2	1122.7	1123.2	1123.8	1123.2	1122.7	1123.2	1123.8	1121.6	1121.1	1122.1
5°	1147.1	1147.1	1148.2	1148.7	1148.2	1147.1	1147.1	1144.9	1143.3	1141.7	1141.1
7.5°	1167.7	1168.8	1169.9	1170.4	1169.9	1168.8	1167.7	1164.4	1161.2	1158.5	1156.3
10°	1180.2	1181.8	1184.0	1185.0	1184.0	1181.8	1180.2	1176.4	1172.0	1167.7	1164.4
12.5°	1185.6	1187.2	1189.9	1189.4	1189.9	1187.2	1185.6	1180.2	1175.3	1169.3	1164.4
15°	1181.8	1184.0	1186.7	1187.8	1186.7	1184.0	1181.8	1176.4	1172.0	1165.5	1160.6
17.5°	1169.9	1173.1	1174.8	1176.4	1174.8	1173.1	1169.9	1165.5	1159.6	1154.2	1149.3
20°	1153.6	1155.8	1157.9	1158.5	1157.9	1155.8	1153.6	1148.7	1139.5	1138.4	1134.6
22.5°	1130.3	1131.9	1136.8	1135.2	1136.8	1131.9	1130.3	1125.9	1122.7	1116.7	1112.9
25°	1096.6	1098.3	1098.8	1099.4	1098.8	1098.3	1096.6	1092.8	1089.6	1085.3	1083.1
27.5°	1038.6	1038.6	1039.7	1040.3	1039.7	1038.6	1038.6	1035.9	1033.7	1031.6	1029.4
30°	950.8	950.8	950.8	953.5	950.8	950.8	950.8	950.2	950.2	950.8	950.8
32.5°	849.3	848.2	847.2	848.2	847.2	848.2	849.3	849.9	849.3	851.0	853.7
35°	734.3	733.8	735.4	733.3	735.4	733.8	734.3	734.3	736.5	738.7	739.2
37.5°	624.2	623.2	625.3	623.2	625.3	623.2	624.2	623.7	623.2	624.2	622.6
40°	519.6	520.7	520.7	525.0	520.7	520.7	519.6	518.5	514.7	512.5	510.4
42.5°	419.2	422.5	421.4	424.7	421.4	422.5	419.2	417.1	412.7	408.9	405.7
45°	324.3	326.5	326.5	327.6	326.5	326.5	324.3	322.2	318.4	315.1	312.9
47.5°	248.9	248.9	248.9	249.5	248.9	248.9	248.9	245.1	244.1	241.9	239.2
50°	189.3	189.8	190.4	190.9	190.4	189.8	189.3	188.2	187.7	186.6	186.0
52.5°	145.4	145.9	144.8	145.9	144.8	145.9	145.4	145.9	144.3	144.3	143.7
55°	110.1	109.6	110.1	110.6	110.1	109.6	110.1	110.1	109.6	109.6	109.6
57.5°	80.8	79.7	79.7	79.7	79.7	79.7	80.8	80.3	81.9	80.8	81.3
60°	60.2	60.7	60.7	61.3	60.7	60.7	60.2	61.3	61.3	61.8	61.8
62.5°	44.5	46.1	45.0	46.1	45.0	46.1	44.5	45.0	45.0	45.6	46.1
65°	28.8	28.8	28.8	29.3	28.8	28.8	28.8	29.3	29.8	29.3	30.9
67.5°	19.5	20.1	21.2	20.6	21.2	20.1	19.5	20.1	20.1	21.7	21.2
70°	15.7	14.1	14.1	15.7	14.1	14.1	15.7	14.6	14.1	15.2	14.6
72.5°	9.2	8.1	9.2	9.2	9.2	8.1	9.2	8.1	8.7	8.7	9.8
75°	4.9	4.3	3.8	5.4	3.8	4.3	4.9	4.9	4.9	4.9	5.4
77.5°	3.3	2.7	3.8	3.8	3.8	2.7	3.3	2.7	3.3	2.7	3.3
80°	1.6	2.2	1.6	2.7	1.6	2.2	1.6	2.7	1.6	2.2	2.2
82.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1	0.5
85°	0.0	1.1	0.5	0.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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: P244562

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1122.1	1120.5	1121.1	1117.8	1117.8	1116.7	1117.3	1114.5	1113.5	1112.4	1114.0
5°	1138.4	1135.7	1133.5	1128.7	1125.9	1122.7	1121.1	1116.7	1112.9	1109.7	1109.1
7.5°	1151.4	1145.5	1141.7	1135.2	1130.3	1126.5	1121.1	1115.1	1110.2	1105.9	1102.6
10°	1156.9	1150.9	1144.9	1136.8	1131.4	1124.3	1118.9	1111.3	1104.8	1098.8	1095.0
12.5°	1157.4	1149.8	1144.4	1135.2	1128.1	1120.5	1114.5	1105.9	1098.3	1092.3	1086.4
15°	1152.5	1145.5	1138.9	1129.2	1122.1	1115.1	1108.1	1098.8	1091.8	1084.7	1080.4
17.5°	1141.7	1135.2	1127.6	1118.3	1111.8	1105.3	1097.7	1090.1	1082.0	1074.4	1069.0
20°	1127.6	1120.5	1114.0	1104.8	1099.4	1092.3	1085.3	1077.1	1070.6	1063.0	1057.1
22.5°	1106.4	1099.9	1093.9	1088.5	1079.8	1074.4	1069.5	1060.3	1053.8	1046.8	1040.3
25°	1076.0	1069.5	1064.7	1058.1	1054.3	1048.4	1043.5	1035.4	1029.4	1022.9	1017.5
27.5°	1026.1	1022.4	1019.6	1015.8	1012.6	1009.9	1007.2	1000.7	996.3	990.4	984.9
30°	951.3	950.8	949.1	947.5	949.7	949.7	949.7	948.6	944.8	940.4	936.6
32.5°	855.3	856.4	858.6	860.2	864.5	869.4	873.7	875.9	875.9	873.2	871.6
35°	740.9	742.5	745.8	750.1	755.5	761.5	771.2	773.4	775.0	775.0	772.9
37.5°	622.1	621.5	624.8	628.6	631.9	636.2	643.2	644.9	647.6	646.5	644.3
40°	506.6	503.9	502.8	503.9	507.6	506.0	507.6	506.6	506.6	502.8	502.8
42.5°	399.7	396.5	394.3	392.7	392.7	388.9	386.2	383.5	381.8	379.1	378.6
45°	308.1	304.3	301.6	300.5	298.9	294.0	290.7	287.4	283.6	282.6	283.1
47.5°	239.2	235.4	234.3	231.6	228.9	226.2	224.0	220.2	219.6	217.5	219.6
50°	184.4	183.3	181.7	180.6	179.0	176.8	174.6	172.5	171.4	171.4	171.9
52.5°	143.2	143.7	142.1	140.5	139.4	139.4	136.7	136.1	136.1	134.0	136.1
55°	109.6	109.0	109.6	108.5	108.5	106.8	106.8	105.2	105.2	103.6	104.7
57.5°	80.3	81.3	80.3	80.8	81.9	80.3	79.7	78.1	79.2	78.1	78.6
60°	62.4	62.4	62.4	61.8	61.8	61.3	61.3	60.7	60.7	59.6	60.7
62.5°	46.1	46.6	46.6	46.6	47.2	46.6	46.1	46.6	46.1	46.1	46.6
65°	30.4	30.9	30.9	30.4	31.5	30.4	30.9	31.5	32.0	31.5	32.0
67.5°	20.6	20.6	21.2	21.7	21.2	21.7	22.2	21.7	22.2	23.3	22.2
70°	15.2	15.7	15.7	15.2	14.6	15.2	14.6	16.3	16.3	16.3	17.3
72.5°	9.8	9.8	9.2	9.2	9.2	9.2	9.2	10.8	9.8	9.2	10.3
75°	5.4	6.0	6.0	4.3	4.9	6.0	4.3	4.9	6.5	5.4	6.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.3	3.8	3.8	3.8	4.3
80°	2.7	2.2	2.2	1.6	2.2	2.2	2.2	3.3	2.7	2.7	3.3
82.5°	1.1	1.1	0.5	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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: P244562

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1109.7	1109.7	1109.1	1108.1	1105.9	1105.9	1105.3	1103.7	1102.6	1102.1	1102.1
5°	1104.2	1102.1	1099.9	1093.9	1093.9	1092.8	1089.6	1087.4	1086.4	1083.6	1082.6
7.5°	1099.4	1092.8	1089.1	1085.3	1080.4	1078.2	1074.4	1072.8	1069.0	1066.3	1064.7
10°	1087.4	1083.1	1078.2	1072.2	1068.4	1064.1	1059.8	1056.5	1051.6	1048.9	1046.8
12.5°	1079.3	1072.8	1068.4	1061.9	1055.4	1051.6	1045.7	1041.9	1037.0	1031.6	1028.3
15°	1071.7	1064.7	1058.7	1051.6	1044.6	1040.3	1033.2	1028.9	1021.8	1016.4	1012.6
17.5°	1060.3	1054.3	1047.8	1039.2	1032.7	1027.2	1019.6	1014.2	1007.7	1000.7	996.9
20°	1048.4	1041.3	1034.8	1026.1	1019.6	1013.1	1005.5	999.6	992.0	985.5	981.1
22.5°	1032.7	1024.5	1019.1	1010.4	1002.8	995.8	988.7	981.7	974.6	969.2	964.3
25°	1009.9	1001.2	995.2	988.2	981.1	975.7	967.0	962.7	955.6	950.8	945.9
27.5°	977.3	970.8	965.4	958.3	952.4	948.1	941.5	937.2	931.2	926.9	923.1
30°	929.6	924.2	919.3	912.2	907.9	904.1	898.1	894.3	890.0	885.1	884.1
32.5°	865.6	861.3	856.4	851.5	848.2	846.1	841.2	839.0	834.7	832.0	829.3
35°	769.1	765.3	762.6	760.4	759.3	759.8	758.8	760.9	762.0	761.5	762.0
37.5°	642.7	640.5	641.6	643.2	648.7	655.7	662.2	672.0	678.5	685.0	691.0
40°	501.7	503.3	507.6	517.4	531.5	547.3	561.9	580.3	598.8	611.8	623.7
42.5°	378.6	383.5	394.3	408.4	429.6	452.9	475.7	502.8	525.0	546.7	561.9
45°	284.7	291.2	305.3	324.9	348.2	375.3	404.1	434.4	461.0	483.2	500.1
47.5°	221.8	227.8	241.9	262.5	291.2	319.5	349.3	380.7	408.4	430.1	444.7
50°	175.2	182.8	195.2	216.9	245.7	275.5	306.4	337.3	363.4	381.8	394.8
52.5°	137.8	144.8	156.7	179.5	208.8	238.6	267.4	297.8	320.5	338.4	347.1
55°	106.8	113.4	125.8	144.8	172.5	201.8	230.5	256.5	277.7	290.7	298.9
57.5°	81.3	86.2	94.9	113.9	138.9	166.0	190.4	216.4	232.7	241.9	247.3
60°	61.8	65.6	74.9	89.5	112.3	135.6	156.2	175.7	188.7	196.3	201.8
62.5°	46.6	51.0	57.5	70.0	87.3	106.3	123.7	138.3	149.1	154.0	157.8
65°	32.0	35.2	40.1	49.9	64.5	78.1	91.7	102.5	109.6	115.0	117.2
67.5°	23.9	26.0	28.8	36.3	46.6	57.5	66.7	74.3	81.9	84.1	87.9
70°	17.9	19.5	22.2	27.7	33.6	41.2	48.8	53.2	58.6	62.4	63.5
72.5°	11.4	11.9	14.6	17.9	22.8	27.7	32.5	36.3	39.6	41.8	42.8
75°	6.5	9.8	9.8	13.0	16.3	18.4	21.7	24.4	26.0	27.7	27.7
77.5°	4.3	6.0	6.5	8.1	9.8	12.5	15.2	16.8	18.4	19.0	19.0
80°	3.8	4.3	4.3	6.0	7.1	9.2	10.8	11.4	12.5	13.0	14.1
82.5°	1.6	2.2	2.7	4.3	4.9	4.9	6.5	7.1	8.1	8.7	8.7
85°	0.5	1.1	1.1	1.6	2.7	3.3	3.8	4.3	4.9	4.9	5.4
87.5°	0.5	0.5	0.0	0.5	1.1	1.1	2.2	2.2	2.2	3.3	3.3
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: P244562

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1101.0	1101.5	1099.4	1098.8	1097.7	1098.3	1099.4
5°	1080.9	1081.5	1079.3	1077.1	1077.1	1076.6	1077.1
7.5°	1061.9	1062.5	1059.2	1058.1	1056.0	1056.5	1056.5
10°	1043.0	1043.0	1038.1	1037.5	1035.9	1035.4	1035.4
12.5°	1024.5	1022.9	1019.1	1016.9	1018.0	1014.8	1014.8
15°	1008.2	1005.5	1000.7	999.0	996.3	995.2	995.2
17.5°	991.4	989.3	984.9	981.7	978.4	977.9	978.4
20°	975.2	973.0	967.6	965.4	962.7	962.7	961.6
22.5°	958.9	956.7	951.9	950.2	946.4	946.4	947.0
25°	942.1	940.4	935.0	933.9	933.4	931.2	932.3
27.5°	919.3	918.2	913.9	912.2	910.1	909.5	910.6
30°	877.5	875.9	872.7	871.0	867.2	867.8	868.9
32.5°	825.5	823.3	819.0	817.3	814.1	813.0	813.5
35°	760.4	758.8	755.0	755.0	751.7	750.6	751.7
37.5°	694.2	695.8	694.2	695.8	694.2	693.7	694.2
40°	631.9	637.8	638.9	644.9	642.7	645.9	645.4
42.5°	572.2	581.9	585.8	590.6	589.6	591.7	593.3
45°	512.0	520.1	523.9	527.2	527.7	528.8	529.3
47.5°	455.0	461.5	462.1	465.9	465.3	465.3	467.0
50°	401.9	406.2	407.3	410.0	407.9	406.8	407.3
52.5°	352.5	356.9	355.8	356.9	354.2	353.1	353.6
55°	302.1	304.3	304.3	304.3	301.0	301.0	301.0
57.5°	250.6	251.1	250.0	250.6	250.0	246.8	246.2
60°	203.4	203.4	202.8	203.4	201.8	200.1	200.1
62.5°	158.9	160.0	162.2	160.0	158.9	160.0	158.4
65°	118.8	121.0	120.4	121.5	121.0	121.0	119.9
67.5°	89.5	90.0	90.6	91.1	91.1	91.1	91.1
70°	65.6	67.3	66.7	66.7	66.7	66.7	70.0
72.5°	43.9	46.1	45.6	46.6	46.6	47.7	46.6
75°	29.8	32.0	30.9	32.5	32.0	30.9	33.6
77.5°	20.1	21.2	21.7	22.2	21.7	21.2	21.7
80°	14.1	15.2	14.6	15.2	15.2	15.2	15.7
82.5°	8.7	10.3	9.8	10.3	9.8	10.3	10.3
85°	6.0	6.5	5.4	6.5	6.0	6.0	7.1
87.5°	3.8	3.3	3.3	3.8	3.3	3.8	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)