

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: P246014

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246014
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 EC8B20950 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

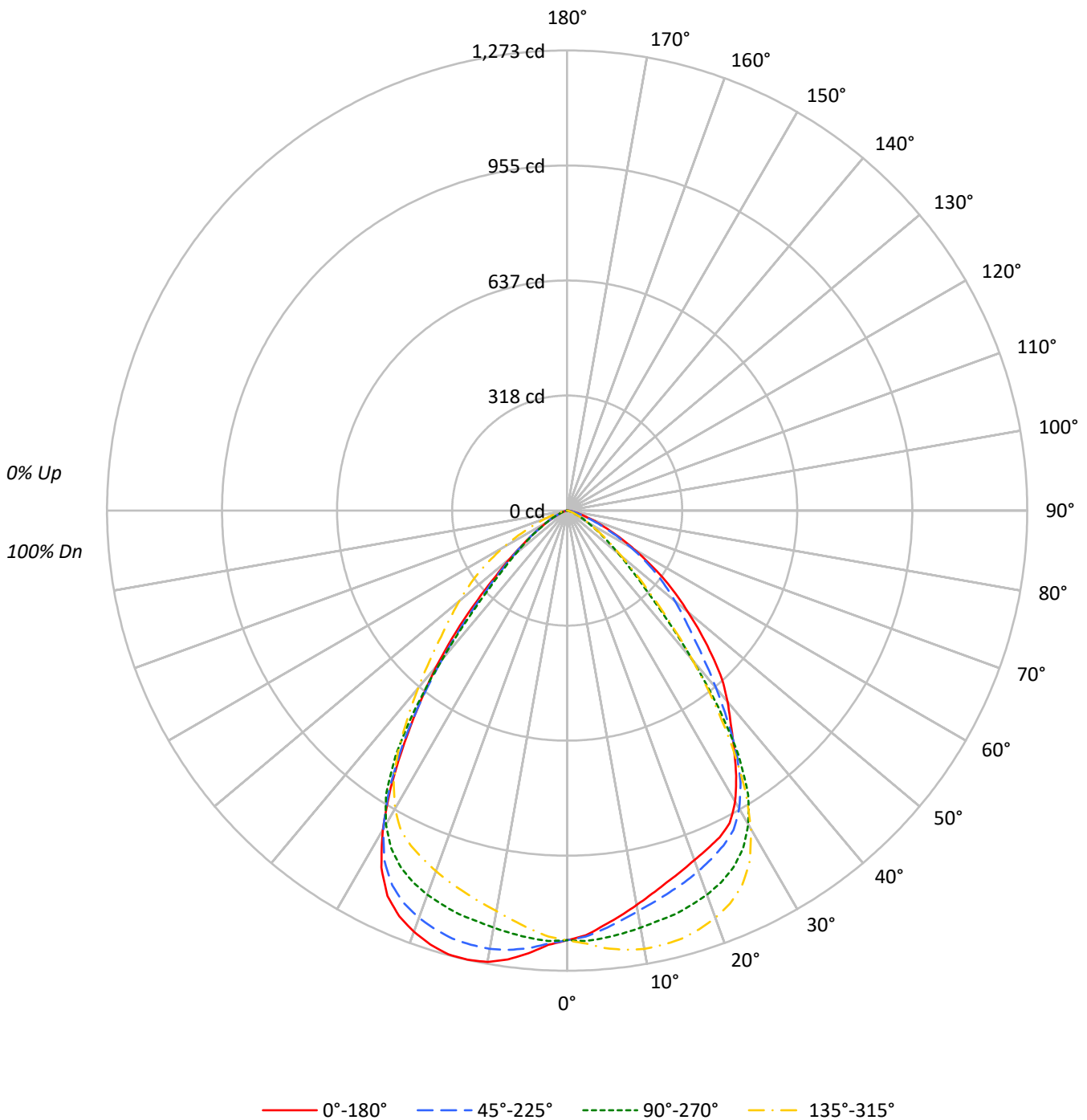
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36649	36649	36649	36649
5°	35678	36736	38049	36736
10°	34691	36688	39704	36688
15°	33996	36904	40572	36904
20°	33764	37117	40678	37117
25°	33942	37042	40023	37042
30°	33104	35685	36326	35685
35°	30277	31132	29536	31132
40°	27799	21657	22615	21657
45°	24700	13209	15285	13209
50°	20907	8827	9801	8827
55°	17317	6021	6365	6021
60°	13204	4009	4046	4009
65°	9354	2495	2284	2495
70°	6753	1677	1515	1677
75°	4289	834	691	834
80°	2983	622	515	622
85°	2654	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	5.7
10°-20°	327.6	16.4
20°-30°	496.0	24.8
30°-40°	497.2	24.8
40°-50°	312.2	15.6
50°-60°	166.4	8.3
60°-70°	68.4	3.4
70°-80°	18.1	0.9
80°-90°	3.1	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°	936.8	46.8
0°-40°	1433.9	71.6
0°-60°	1912.5	95.5
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1153	1187	1229	1187	1153	109
15°	1065	1156	1271	1156	1065	301
25°	998	1089	1176	1089	998	458
35°	804	827	785	827	804	504
45°	566	303	350	303	566	436
55°	322	112	118	112	322	287
65°	128	34	31	34	128	133
75°	36	7	6	7	36	41
85°	8	0	1	0	8	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°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1176.3	1175.2	1174.6	1175.8	1176.3	1178.7	1178.1	1179.2	1179.2	1179.8	1181.0
5°	1152.6	1152.0	1152.6	1152.6	1154.9	1157.2	1156.6	1158.4	1159.5	1162.4	1163.6
7.5°	1130.5	1130.5	1129.9	1132.2	1133.4	1136.9	1136.3	1139.2	1140.9	1143.8	1147.9
10°	1107.9	1107.9	1108.4	1110.2	1110.8	1116.0	1116.0	1120.0	1122.4	1125.3	1130.5
12.5°	1085.8	1085.8	1089.3	1088.1	1090.4	1094.5	1096.2	1100.3	1103.8	1109.6	1114.8
15°	1064.9	1064.9	1066.1	1069.0	1070.7	1075.9	1078.8	1083.5	1087.6	1093.4	1100.9
17.5°	1046.9	1046.3	1046.9	1050.4	1053.9	1058.5	1060.8	1066.7	1070.7	1078.3	1085.2
20°	1028.9	1030.1	1030.1	1033.0	1035.3	1041.1	1043.4	1049.8	1054.5	1061.4	1069.6
22.5°	1013.3	1012.7	1012.7	1016.8	1018.5	1023.7	1026.0	1031.8	1037.1	1042.9	1050.4
25°	997.6	996.4	998.8	999.3	1000.5	1006.3	1008.0	1012.1	1017.3	1022.6	1030.1
27.5°	974.4	973.2	973.8	976.1	977.9	982.5	983.7	987.7	991.8	996.4	1002.8
30°	929.7	928.5	928.0	932.0	933.8	937.2	939.0	946.0	947.1	952.3	957.0
32.5°	870.5	869.9	871.1	874.6	876.3	881.0	883.3	887.3	890.2	893.1	897.8
35°	804.3	803.2	804.3	807.8	807.8	811.9	813.6	815.4	814.8	815.4	814.2
37.5°	742.8	742.2	742.8	744.6	742.8	744.6	742.8	739.4	733.0	726.0	719.0
40°	690.6	691.2	687.7	690.0	683.6	682.5	676.1	667.4	654.6	640.7	621.0
42.5°	634.9	633.2	630.8	632.0	626.8	622.7	612.2	601.2	585.0	561.8	538.0
45°	566.4	565.8	564.7	564.1	560.6	556.5	547.8	535.1	517.1	493.3	464.8
47.5°	499.7	497.9	497.9	498.5	494.4	493.9	486.9	475.9	460.2	437.0	407.4
50°	435.8	435.2	436.4	438.7	435.8	434.7	430.0	422.5	408.6	388.8	361.0
52.5°	378.4	377.8	379.0	381.9	380.7	381.9	377.2	371.4	362.1	343.0	318.6
55°	322.1	322.1	322.1	325.6	325.6	325.6	323.2	319.8	311.1	297.1	274.5
57.5°	263.5	264.0	267.5	268.1	267.5	268.7	268.1	264.6	258.8	249.0	231.6
60°	214.1	214.1	215.9	217.6	217.0	217.6	217.6	215.9	210.1	202.0	188.0
62.5°	169.5	171.2	170.0	171.2	173.5	171.2	170.0	168.9	164.8	159.6	148.0
65°	128.2	129.4	129.4	130.0	128.8	129.4	127.1	125.4	123.0	117.2	109.7
67.5°	97.5	97.5	97.5	97.5	96.9	96.3	95.8	94.0	90.0	87.6	79.5
70°	74.9	71.4	71.4	71.4	71.4	72.0	70.2	67.9	66.7	62.7	56.9
72.5°	49.9	51.1	49.9	49.9	48.8	49.3	47.0	45.8	44.7	42.4	38.9
75°	36.0	33.1	34.2	34.8	33.1	34.2	31.9	29.6	29.6	27.9	26.1
77.5°	23.2	22.6	23.2	23.8	23.2	22.6	21.5	20.3	20.3	19.7	18.0
80°	16.8	16.2	16.2	16.2	15.7	16.2	15.1	15.1	13.9	13.4	12.2
82.5°	11.0	11.0	10.4	11.0	10.4	11.0	9.3	9.3	9.3	8.7	7.5
85°	7.5	6.4	6.4	7.0	5.8	7.0	6.4	5.8	5.2	5.2	4.6
87.5°	3.5	4.1	3.5	4.1	3.5	3.5	4.1	3.5	3.5	2.3	2.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1182.7	1183.3	1183.3	1185.6	1186.8	1187.4	1187.4	1192.0	1190.3	1191.4	1192.6
5°	1165.9	1169.4	1170.5	1170.5	1176.9	1179.2	1181.5	1186.8	1187.4	1190.8	1194.9
7.5°	1149.6	1153.7	1156.0	1161.2	1165.3	1169.4	1176.3	1179.8	1183.3	1188.0	1193.2
10°	1134.0	1138.6	1143.3	1147.3	1153.7	1158.9	1163.6	1171.7	1175.8	1182.1	1189.1
12.5°	1118.9	1125.3	1129.3	1136.3	1143.3	1147.9	1154.9	1162.4	1168.8	1175.2	1183.3
15°	1105.5	1113.1	1117.7	1125.3	1132.8	1139.2	1146.7	1156.0	1160.7	1168.2	1175.8
17.5°	1091.0	1099.2	1105.0	1111.9	1121.2	1128.2	1134.6	1143.8	1149.6	1157.8	1166.5
20°	1075.9	1084.1	1091.0	1098.0	1107.3	1114.2	1121.8	1131.1	1137.5	1145.6	1152.6
22.5°	1058.0	1065.5	1073.0	1081.2	1090.4	1096.2	1105.0	1113.1	1120.0	1127.6	1134.6
25°	1034.7	1044.0	1049.8	1057.4	1064.9	1071.3	1080.6	1088.7	1094.5	1101.5	1107.9
27.5°	1007.5	1014.4	1019.1	1025.4	1033.0	1038.8	1045.8	1053.9	1059.7	1066.1	1070.7
30°	961.0	967.4	971.5	976.1	983.7	988.9	994.7	1002.2	1006.3	1010.9	1015.0
32.5°	900.1	905.3	907.6	911.1	916.4	921.6	926.2	932.6	934.3	937.2	937.2
35°	811.9	813.0	812.5	813.6	816.0	818.8	822.9	827.0	829.3	829.3	827.6
37.5°	708.6	701.6	694.1	688.3	686.5	685.4	687.7	689.4	691.8	692.9	690.0
40°	601.2	585.6	568.7	553.6	543.2	538.6	536.8	538.0	538.0	542.0	542.0
42.5°	509.0	484.6	459.6	437.0	421.9	410.3	405.1	405.1	405.6	408.6	410.3
45°	432.4	401.6	372.6	347.6	326.7	311.6	304.7	302.9	302.4	303.5	307.6
47.5°	373.7	341.8	311.6	280.9	258.8	243.7	237.4	235.0	232.7	235.0	235.6
50°	327.9	294.8	262.9	232.1	208.9	195.6	187.4	184.0	183.4	183.4	184.6
52.5°	286.1	255.4	223.4	192.1	167.7	155.0	147.4	145.7	143.3	145.7	145.7
55°	246.6	215.9	184.6	155.0	134.6	121.3	114.3	112.0	110.8	112.6	112.6
57.5°	203.7	177.6	148.6	121.9	101.6	92.3	87.0	84.2	83.6	84.7	83.6
60°	167.1	145.1	120.1	95.8	80.1	70.2	66.2	65.0	63.8	65.0	65.0
62.5°	132.3	113.8	93.4	74.9	61.5	54.6	49.9	49.9	49.3	49.3	49.9
65°	98.1	83.6	69.1	53.4	42.9	37.7	34.2	34.2	33.7	34.2	33.7
67.5°	71.4	61.5	49.9	38.9	30.8	27.9	25.5	23.8	25.0	23.8	23.2
70°	52.2	44.1	36.0	29.6	23.8	20.9	19.2	18.6	17.4	17.4	17.4
72.5°	34.8	29.6	24.4	19.2	15.7	12.8	12.2	11.0	9.9	10.4	11.6
75°	23.2	19.7	17.4	13.9	10.4	10.4	7.0	7.0	5.8	7.0	5.2
77.5°	16.2	13.4	10.4	8.7	7.0	6.4	4.6	4.6	4.1	4.1	4.1
80°	11.6	9.9	7.5	6.4	4.6	4.6	4.1	3.5	2.9	2.9	3.5
82.5°	7.0	5.2	5.2	4.6	2.9	2.3	1.7	2.3	1.2	1.2	1.2
85°	4.1	3.5	2.9	1.7	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.3	1.2	1.2	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1195.5	1194.9	1196.1	1196.1	1199.6	1199.0	1200.7	1200.7	1199.6	1200.1	1202.5
5°	1199.6	1201.3	1204.8	1207.7	1212.9	1215.2	1218.1	1221.0	1221.6	1223.4	1225.1
7.5°	1199.6	1205.4	1209.4	1214.6	1221.6	1225.7	1232.0	1237.3	1239.6	1242.5	1246.0
10°	1197.2	1203.0	1210.6	1216.4	1225.1	1231.5	1237.9	1246.0	1249.5	1254.1	1258.8
12.5°	1192.6	1199.0	1207.1	1214.6	1224.5	1230.3	1238.4	1246.0	1251.2	1257.6	1262.8
15°	1185.6	1193.2	1200.7	1208.3	1218.7	1225.7	1233.2	1241.9	1247.1	1254.1	1258.8
17.5°	1174.6	1182.7	1189.7	1196.6	1206.5	1214.6	1221.6	1229.7	1235.0	1240.8	1247.1
20°	1161.2	1168.8	1176.3	1182.1	1192.0	1199.0	1206.5	1214.1	1218.1	1219.3	1229.2
22.5°	1144.4	1149.6	1155.4	1164.7	1170.5	1176.9	1183.9	1190.8	1194.9	1201.3	1204.8
25°	1116.6	1121.8	1128.2	1132.2	1139.2	1144.4	1151.4	1158.9	1161.2	1165.9	1169.4
27.5°	1077.7	1080.6	1083.5	1087.0	1091.0	1093.9	1098.0	1101.5	1103.8	1106.1	1108.4
30°	1016.2	1016.2	1016.2	1013.8	1015.6	1017.3	1017.9	1017.3	1017.3	1016.8	1016.8
32.5°	934.9	930.3	925.0	920.4	918.7	916.4	915.2	913.4	910.6	908.8	909.4
35°	825.2	814.8	808.4	802.6	798.0	794.5	792.7	791.0	790.4	788.1	785.8
37.5°	688.3	680.7	676.1	672.6	668.6	665.1	665.6	666.2	668.0	666.8	667.4
40°	543.2	541.4	543.2	539.1	538.0	539.1	542.0	546.1	548.4	550.7	554.8
42.5°	413.2	416.1	420.2	420.2	421.9	424.2	427.7	434.1	437.6	441.6	446.3
45°	311.1	314.5	319.8	321.5	322.7	325.6	329.6	334.8	337.2	340.7	344.7
47.5°	239.7	242.0	244.9	247.8	250.7	251.9	255.9	255.9	258.8	261.2	262.3
50°	186.9	189.2	191.5	193.2	194.4	196.2	197.3	199.1	199.6	200.8	201.4
52.5°	146.2	149.2	149.2	150.3	152.0	153.8	153.2	153.8	154.4	154.4	156.1
55°	114.3	114.3	116.1	116.1	117.2	116.6	117.2	117.2	117.2	117.2	117.8
57.5°	85.3	85.9	87.6	86.5	85.9	87.0	85.9	87.0	86.5	87.6	85.9
60°	65.6	65.6	66.2	66.2	66.7	66.7	66.7	66.2	66.2	65.6	65.6
62.5°	49.3	49.9	50.5	49.9	49.9	49.9	49.3	49.3	48.8	48.2	48.2
65°	33.1	32.5	33.7	32.5	33.1	33.1	32.5	33.1	31.3	31.9	31.3
67.5°	23.8	23.2	22.6	23.2	22.6	22.0	22.0	22.6	23.2	21.5	21.5
70°	15.7	16.2	15.7	16.2	16.8	16.8	16.2	15.7	16.2	15.1	15.7
72.5°	9.9	9.9	9.9	9.9	9.9	10.4	10.4	10.4	9.3	9.3	8.7
75°	4.6	6.4	5.2	4.6	6.4	6.4	5.8	5.8	5.2	5.2	5.2
77.5°	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	3.5	2.9
80°	2.3	2.3	2.3	1.7	2.3	2.3	2.9	2.3	2.3	1.7	2.9
82.5°	1.2	1.2	1.2	0.0	0.6	1.2	1.2	0.6	1.2	1.2	0.6
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: P246014

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1201.9	1201.3	1201.9	1202.5	1201.9	1201.3	1201.9	1202.5	1200.1	1199.6	1200.7
5°	1227.4	1227.4	1228.6	1229.2	1228.6	1227.4	1227.4	1225.1	1223.4	1221.6	1221.0
7.5°	1249.5	1250.6	1251.8	1252.4	1251.8	1250.6	1249.5	1246.0	1242.5	1239.6	1237.3
10°	1262.8	1264.6	1266.9	1268.0	1266.9	1264.6	1262.8	1258.8	1254.1	1249.5	1246.0
12.5°	1268.6	1270.4	1273.3	1272.7	1273.3	1270.4	1268.6	1262.8	1257.6	1251.2	1246.0
15°	1264.6	1266.9	1269.8	1270.9	1269.8	1266.9	1264.6	1258.8	1254.1	1247.1	1241.9
17.5°	1251.8	1255.3	1257.0	1258.8	1257.0	1255.3	1251.8	1247.1	1240.8	1235.0	1229.7
20°	1234.4	1236.7	1239.0	1239.6	1239.0	1236.7	1234.4	1229.2	1219.3	1218.1	1214.1
22.5°	1209.4	1211.2	1216.4	1214.6	1216.4	1211.2	1209.4	1204.8	1201.3	1194.9	1190.8
25°	1173.4	1175.2	1175.8	1176.3	1175.8	1175.2	1173.4	1169.4	1165.9	1161.2	1158.9
27.5°	1111.3	1111.3	1112.5	1113.1	1112.5	1111.3	1111.3	1108.4	1106.1	1103.8	1101.5
30°	1017.3	1017.3	1017.3	1020.2	1017.3	1017.3	1017.3	1016.8	1016.8	1017.3	1017.3
32.5°	908.8	907.6	906.5	907.6	906.5	907.6	908.8	909.4	908.8	910.6	913.4
35°	785.8	785.2	786.9	784.6	786.9	785.2	785.8	785.8	788.1	790.4	791.0
37.5°	668.0	666.8	669.1	666.8	669.1	666.8	668.0	667.4	666.8	668.0	666.2
40°	556.0	557.1	557.1	561.8	557.1	557.1	556.0	554.8	550.7	548.4	546.1
42.5°	448.6	452.1	450.9	454.4	450.9	452.1	448.6	446.3	441.6	437.6	434.1
45°	347.0	349.4	349.4	350.5	349.4	349.4	347.0	344.7	340.7	337.2	334.8
47.5°	266.4	266.4	266.4	267.0	266.4	266.4	266.4	262.3	261.2	258.8	255.9
50°	202.5	203.1	203.7	204.3	203.7	203.1	202.5	201.4	200.8	199.6	199.1
52.5°	155.5	156.1	155.0	156.1	155.0	156.1	155.5	156.1	154.4	154.4	153.8
55°	117.8	117.2	117.8	118.4	117.8	117.2	117.8	117.8	117.2	117.2	117.2
57.5°	86.5	85.3	85.3	85.3	85.3	85.3	86.5	85.9	87.6	86.5	87.0
60°	64.4	65.0	65.0	65.6	65.0	65.0	64.4	65.6	65.6	66.2	66.2
62.5°	47.6	49.3	48.2	49.3	48.2	49.3	47.6	48.2	48.2	48.8	49.3
65°	30.8	30.8	30.8	31.3	30.8	30.8	30.8	31.3	31.9	31.3	33.1
67.5°	20.9	21.5	22.6	22.0	22.6	21.5	20.9	21.5	21.5	23.2	22.6
70°	16.8	15.1	15.1	16.8	15.1	15.1	16.8	15.7	15.1	16.2	15.7
72.5°	9.9	8.7	9.9	9.9	9.9	8.7	9.9	8.7	9.3	9.3	10.4
75°	5.2	4.6	4.1	5.8	4.1	4.6	5.2	5.2	5.2	5.2	5.8
77.5°	3.5	2.9	4.1	4.1	4.1	2.9	3.5	2.9	3.5	2.9	3.5
80°	1.7	2.3	1.7	2.9	1.7	2.3	1.7	2.9	1.7	2.3	2.3
82.5°	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	0.6
85°	0.0	1.2	0.6	0.6	0.6	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.6	0.0	0.0	0.6	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: P246014

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1200.7	1199.0	1199.6	1196.1	1196.1	1194.9	1195.5	1192.6	1191.4	1190.3	1192.0
5°	1218.1	1215.2	1212.9	1207.7	1204.8	1201.3	1199.6	1194.9	1190.8	1187.4	1186.8
7.5°	1232.0	1225.7	1221.6	1214.6	1209.4	1205.4	1199.6	1193.2	1188.0	1183.3	1179.8
10°	1237.9	1231.5	1225.1	1216.4	1210.6	1203.0	1197.2	1189.1	1182.1	1175.8	1171.7
12.5°	1238.4	1230.3	1224.5	1214.6	1207.1	1199.0	1192.6	1183.3	1175.2	1168.8	1162.4
15°	1233.2	1225.7	1218.7	1208.3	1200.7	1193.2	1185.6	1175.8	1168.2	1160.7	1156.0
17.5°	1221.6	1214.6	1206.5	1196.6	1189.7	1182.7	1174.6	1166.5	1157.8	1149.6	1143.8
20°	1206.5	1199.0	1192.0	1182.1	1176.3	1168.8	1161.2	1152.6	1145.6	1137.5	1131.1
22.5°	1183.9	1176.9	1170.5	1164.7	1155.4	1149.6	1144.4	1134.6	1127.6	1120.0	1113.1
25°	1151.4	1144.4	1139.2	1132.2	1128.2	1121.8	1116.6	1107.9	1101.5	1094.5	1088.7
27.5°	1098.0	1093.9	1091.0	1087.0	1083.5	1080.6	1077.7	1070.7	1066.1	1059.7	1053.9
30°	1017.9	1017.3	1015.6	1013.8	1016.2	1016.2	1016.2	1015.0	1010.9	1006.3	1002.2
32.5°	915.2	916.4	918.7	920.4	925.0	930.3	934.9	937.2	937.2	934.3	932.6
35°	792.7	794.5	798.0	802.6	808.4	814.8	825.2	827.6	829.3	829.3	827.0
37.5°	665.6	665.1	668.6	672.6	676.1	680.7	688.3	690.0	692.9	691.8	689.4
40°	542.0	539.1	538.0	539.1	543.2	541.4	543.2	542.0	542.0	538.0	538.0
42.5°	427.7	424.2	421.9	420.2	420.2	416.1	413.2	410.3	408.6	405.6	405.1
45°	329.6	325.6	322.7	321.5	319.8	314.5	311.1	307.6	303.5	302.4	302.9
47.5°	255.9	251.9	250.7	247.8	244.9	242.0	239.7	235.6	235.0	232.7	235.0
50°	197.3	196.2	194.4	193.2	191.5	189.2	186.9	184.6	183.4	183.4	184.0
52.5°	153.2	153.8	152.0	150.3	149.2	149.2	146.2	145.7	145.7	143.3	145.7
55°	117.2	116.6	117.2	116.1	116.1	114.3	114.3	112.6	112.6	110.8	112.0
57.5°	85.9	87.0	85.9	86.5	87.6	85.9	85.3	83.6	84.7	83.6	84.2
60°	66.7	66.7	66.7	66.2	66.2	65.6	65.6	65.0	65.0	63.8	65.0
62.5°	49.3	49.9	49.9	49.9	50.5	49.9	49.3	49.9	49.3	49.3	49.9
65°	32.5	33.1	33.1	32.5	33.7	32.5	33.1	33.7	34.2	33.7	34.2
67.5°	22.0	22.0	22.6	23.2	22.6	23.2	23.8	23.2	23.8	25.0	23.8
70°	16.2	16.8	16.8	16.2	15.7	16.2	15.7	17.4	17.4	17.4	18.6
72.5°	10.4	10.4	9.9	9.9	9.9	9.9	9.9	11.6	10.4	9.9	11.0
75°	5.8	6.4	6.4	4.6	5.2	6.4	4.6	5.2	7.0	5.8	7.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.1	4.1	4.1	4.6
80°	2.9	2.3	2.3	1.7	2.3	2.3	2.3	3.5	2.9	2.9	3.5
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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: P246014

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1187.4	1187.4	1186.8	1185.6	1183.3	1183.3	1182.7	1181.0	1179.8	1179.2	1179.2
5°	1181.5	1179.2	1176.9	1170.5	1170.5	1169.4	1165.9	1163.6	1162.4	1159.5	1158.4
7.5°	1176.3	1169.4	1165.3	1161.2	1156.0	1153.7	1149.6	1147.9	1143.8	1140.9	1139.2
10°	1163.6	1158.9	1153.7	1147.3	1143.3	1138.6	1134.0	1130.5	1125.3	1122.4	1120.0
12.5°	1154.9	1147.9	1143.3	1136.3	1129.3	1125.3	1118.9	1114.8	1109.6	1103.8	1100.3
15°	1146.7	1139.2	1132.8	1125.3	1117.7	1113.1	1105.5	1100.9	1093.4	1087.6	1083.5
17.5°	1134.6	1128.2	1121.2	1111.9	1105.0	1099.2	1091.0	1085.2	1078.3	1070.7	1066.7
20°	1121.8	1114.2	1107.3	1098.0	1091.0	1084.1	1075.9	1069.6	1061.4	1054.5	1049.8
22.5°	1105.0	1096.2	1090.4	1081.2	1073.0	1065.5	1058.0	1050.4	1042.9	1037.1	1031.8
25°	1080.6	1071.3	1064.9	1057.4	1049.8	1044.0	1034.7	1030.1	1022.6	1017.3	1012.1
27.5°	1045.8	1038.8	1033.0	1025.4	1019.1	1014.4	1007.5	1002.8	996.4	991.8	987.7
30°	994.7	988.9	983.7	976.1	971.5	967.4	961.0	957.0	952.3	947.1	946.0
32.5°	926.2	921.6	916.4	911.1	907.6	905.3	900.1	897.8	893.1	890.2	887.3
35°	822.9	818.8	816.0	813.6	812.5	813.0	811.9	814.2	815.4	814.8	815.4
37.5°	687.7	685.4	686.5	688.3	694.1	701.6	708.6	719.0	726.0	733.0	739.4
40°	536.8	538.6	543.2	553.6	568.7	585.6	601.2	621.0	640.7	654.6	667.4
42.5°	405.1	410.3	421.9	437.0	459.6	484.6	509.0	538.0	561.8	585.0	601.2
45°	304.7	311.6	326.7	347.6	372.6	401.6	432.4	464.8	493.3	517.1	535.1
47.5°	237.4	243.7	258.8	280.9	311.6	341.8	373.7	407.4	437.0	460.2	475.9
50°	187.4	195.6	208.9	232.1	262.9	294.8	327.9	361.0	388.8	408.6	422.5
52.5°	147.4	155.0	167.7	192.1	223.4	255.4	286.1	318.6	343.0	362.1	371.4
55°	114.3	121.3	134.6	155.0	184.6	215.9	246.6	274.5	297.1	311.1	319.8
57.5°	87.0	92.3	101.6	121.9	148.6	177.6	203.7	231.6	249.0	258.8	264.6
60°	66.2	70.2	80.1	95.8	120.1	145.1	167.1	188.0	202.0	210.1	215.9
62.5°	49.9	54.6	61.5	74.9	93.4	113.8	132.3	148.0	159.6	164.8	168.9
65°	34.2	37.7	42.9	53.4	69.1	83.6	98.1	109.7	117.2	123.0	125.4
67.5°	25.5	27.9	30.8	38.9	49.9	61.5	71.4	79.5	87.6	90.0	94.0
70°	19.2	20.9	23.8	29.6	36.0	44.1	52.2	56.9	62.7	66.7	67.9
72.5°	12.2	12.8	15.7	19.2	24.4	29.6	34.8	38.9	42.4	44.7	45.8
75°	7.0	10.4	10.4	13.9	17.4	19.7	23.2	26.1	27.9	29.6	29.6
77.5°	4.6	6.4	7.0	8.7	10.4	13.4	16.2	18.0	19.7	20.3	20.3
80°	4.1	4.6	4.6	6.4	7.5	9.9	11.6	12.2	13.4	13.9	15.1
82.5°	1.7	2.3	2.9	4.6	5.2	5.2	7.0	7.5	8.7	9.3	9.3
85°	0.6	1.2	1.2	1.7	2.9	3.5	4.1	4.6	5.2	5.2	5.8
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.3	2.3	2.3	3.5	3.5
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: P246014

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1178.1	1178.7	1176.3	1175.8	1174.6	1175.2	1176.3
5°	1156.6	1157.2	1154.9	1152.6	1152.6	1152.0	1152.6
7.5°	1136.3	1136.9	1133.4	1132.2	1129.9	1130.5	1130.5
10°	1116.0	1116.0	1110.8	1110.2	1108.4	1107.9	1107.9
12.5°	1096.2	1094.5	1090.4	1088.1	1089.3	1085.8	1085.8
15°	1078.8	1075.9	1070.7	1069.0	1066.1	1064.9	1064.9
17.5°	1060.8	1058.5	1053.9	1050.4	1046.9	1046.3	1046.9
20°	1043.4	1041.1	1035.3	1033.0	1030.1	1030.1	1028.9
22.5°	1026.0	1023.7	1018.5	1016.8	1012.7	1012.7	1013.3
25°	1008.0	1006.3	1000.5	999.3	998.8	996.4	997.6
27.5°	983.7	982.5	977.9	976.1	973.8	973.2	974.4
30°	939.0	937.2	933.8	932.0	928.0	928.5	929.7
32.5°	883.3	881.0	876.3	874.6	871.1	869.9	870.5
35°	813.6	811.9	807.8	807.8	804.3	803.2	804.3
37.5°	742.8	744.6	742.8	744.6	742.8	742.2	742.8
40°	676.1	682.5	683.6	690.0	687.7	691.2	690.6
42.5°	612.2	622.7	626.8	632.0	630.8	633.2	634.9
45°	547.8	556.5	560.6	564.1	564.7	565.8	566.4
47.5°	486.9	493.9	494.4	498.5	497.9	497.9	499.7
50°	430.0	434.7	435.8	438.7	436.4	435.2	435.8
52.5°	377.2	381.9	380.7	381.9	379.0	377.8	378.4
55°	323.2	325.6	325.6	325.6	322.1	322.1	322.1
57.5°	268.1	268.7	267.5	268.1	267.5	264.0	263.5
60°	217.6	217.6	217.0	217.6	215.9	214.1	214.1
62.5°	170.0	171.2	173.5	171.2	170.0	171.2	169.5
65°	127.1	129.4	128.8	130.0	129.4	129.4	128.2
67.5°	95.8	96.3	96.9	97.5	97.5	97.5	97.5
70°	70.2	72.0	71.4	71.4	71.4	71.4	74.9
72.5°	47.0	49.3	48.8	49.9	49.9	51.1	49.9
75°	31.9	34.2	33.1	34.8	34.2	33.1	36.0
77.5°	21.5	22.6	23.2	23.8	23.2	22.6	23.2
80°	15.1	16.2	15.7	16.2	16.2	16.2	16.8
82.5°	9.3	11.0	10.4	11.0	10.4	11.0	11.0
85°	6.4	7.0	5.8	7.0	6.4	6.4	7.5
87.5°	4.1	3.5	3.5	4.1	3.5	4.1	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)