

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: P244526

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244526  
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 EC8B20830 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2109.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

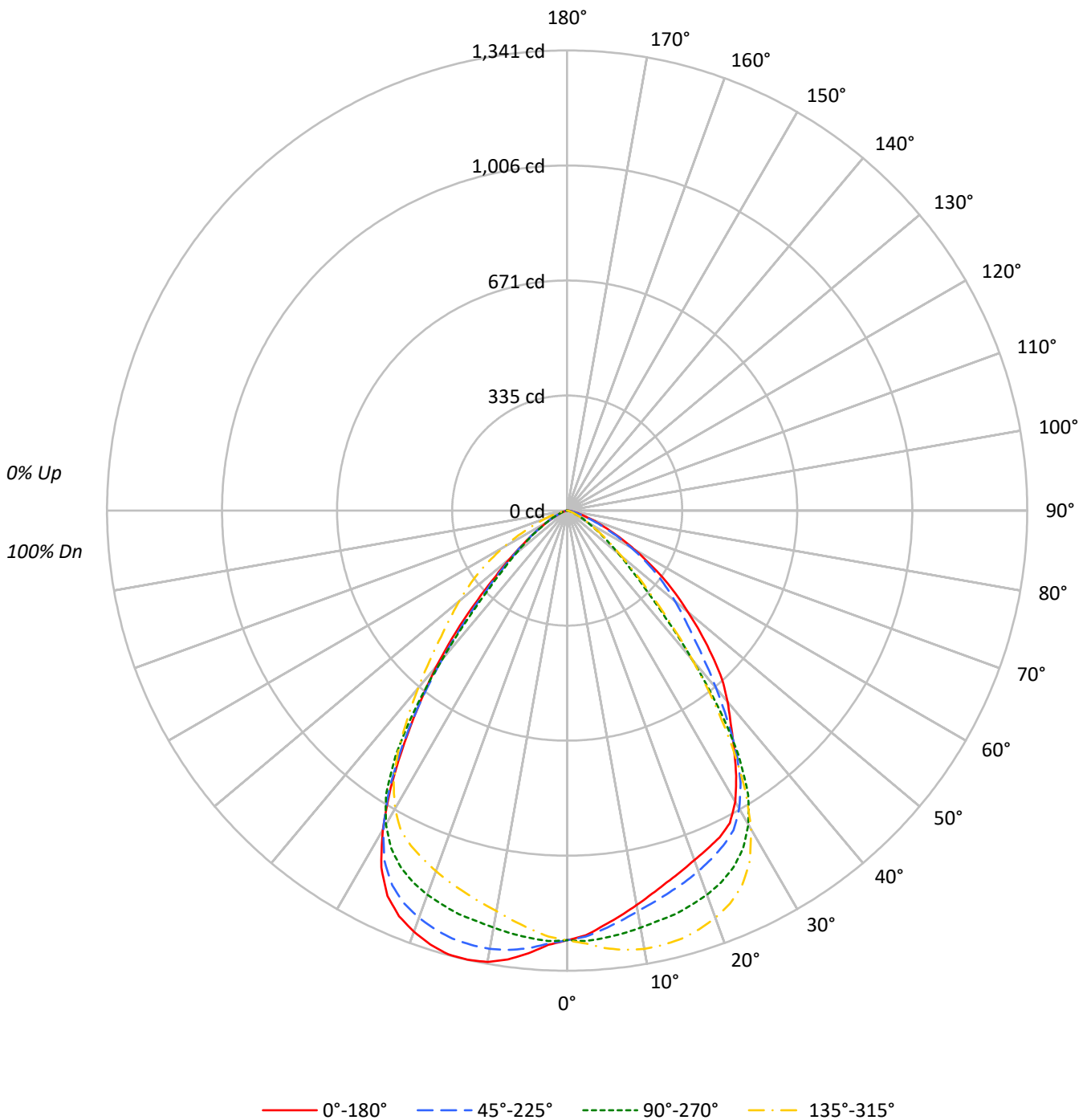
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	38607	38607	38607	38607
5°	37581	38699	40082	38699
10°	36544	38648	41827	38648
15°	35812	38877	42743	38877
20°	35569	39099	42850	39099
25°	35756	39022	42163	39022
30°	34873	37594	38270	37594
35°	31896	32796	31117	32796
40°	29285	22812	23822	22812
45°	26022	13916	16105	13916
50°	22024	9297	10324	9297
55°	18241	6344	6704	6344
60°	13913	4225	4262	4225
65°	9858	2634	2408	2634
70°	7114	1767	1596	1767
75°	4515	870	727	870
80°	3143	657	533	657
85°	2830	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	5.7
10°-20°	345.1	16.4
20°-30°	522.6	24.8
30°-40°	523.7	24.8
40°-50°	328.9	15.6
50°-60°	175.3	8.3
60°-70°	72.1	3.4
70°-80°	19.0	0.9
80°-90°	3.2	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°	986.8	46.8
0°-40°	1510.5	71.6
0°-60°	2014.7	95.5
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1214	1250	1295	1250	1214	114
15°	1122	1218	1339	1218	1122	317
25°	1051	1147	1239	1147	1051	482
35°	847	871	827	871	847	531
45°	597	319	369	319	597	459
55°	339	118	125	118	339	303
65°	135	36	33	36	135	140
75°	38	7	6	7	38	43
85°	8	0	1	0	8	9
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°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1239.2	1238.0	1237.4	1238.6	1239.2	1241.7	1241.0	1242.3	1242.3	1242.9	1244.1
5°	1214.1	1213.5	1214.1	1214.1	1216.6	1219.0	1218.4	1220.3	1221.5	1224.5	1225.8
7.5°	1190.9	1190.9	1190.3	1192.7	1194.0	1197.6	1197.0	1200.1	1201.9	1205.0	1209.2
10°	1167.1	1167.1	1167.7	1169.5	1170.1	1175.6	1175.6	1179.9	1182.3	1185.4	1190.9
12.5°	1143.8	1143.8	1147.5	1146.3	1148.7	1153.0	1154.8	1159.1	1162.8	1168.9	1174.4
15°	1121.8	1121.8	1123.1	1126.1	1127.9	1133.4	1136.5	1141.4	1145.7	1151.8	1159.7
17.5°	1102.9	1102.3	1102.9	1106.5	1110.2	1115.1	1117.5	1123.7	1127.9	1135.9	1143.2
20°	1083.9	1085.2	1085.2	1088.2	1090.6	1096.8	1099.2	1105.9	1110.8	1118.2	1126.7
22.5°	1067.4	1066.8	1066.8	1071.1	1072.9	1078.4	1080.9	1087.0	1092.5	1098.6	1106.5
25°	1050.9	1049.7	1052.1	1052.7	1054.0	1060.1	1061.9	1066.2	1071.7	1077.2	1085.2
27.5°	1026.5	1025.2	1025.8	1028.3	1030.1	1035.0	1036.2	1040.5	1044.8	1049.7	1056.4
30°	979.4	978.2	977.6	981.8	983.7	987.3	989.2	996.5	997.7	1003.2	1008.1
32.5°	917.0	916.4	917.6	921.3	923.1	928.0	930.5	934.8	937.8	940.9	945.8
35°	847.3	846.1	847.3	851.0	851.0	855.3	857.1	858.9	858.3	858.9	857.7
37.5°	782.5	781.9	782.5	784.4	782.5	784.4	782.5	778.9	772.1	764.8	757.5
40°	727.5	728.1	724.5	726.9	720.2	719.0	712.2	703.0	689.6	674.9	654.2
42.5°	668.8	667.0	664.5	665.8	660.3	656.0	645.0	633.4	616.2	591.8	566.7
45°	596.7	596.1	594.8	594.2	590.6	586.3	577.1	563.7	544.7	519.7	489.7
47.5°	526.4	524.5	524.5	525.1	520.9	520.3	512.9	501.3	484.8	460.3	429.2
50°	459.1	458.5	459.7	462.2	459.1	457.9	453.0	445.1	430.4	409.6	380.2
52.5°	398.6	398.0	399.2	402.3	401.0	402.3	397.4	391.3	381.5	361.3	335.6
55°	339.3	339.3	339.3	343.0	343.0	343.0	340.5	336.9	327.7	313.0	289.2
57.5°	277.6	278.2	281.8	282.4	281.8	283.1	282.4	278.8	272.7	262.3	243.9
60°	225.6	225.6	227.4	229.3	228.6	229.3	229.3	227.4	221.3	212.8	198.1
62.5°	178.5	180.3	179.1	180.3	182.8	180.3	179.1	177.9	173.6	168.1	155.9
65°	135.1	136.3	136.3	136.9	135.7	136.3	133.9	132.1	129.6	123.5	115.6
67.5°	102.7	102.7	102.7	102.7	102.1	101.5	100.9	99.0	94.8	92.3	83.7
70°	78.9	75.2	75.2	75.2	75.2	75.8	74.0	71.5	70.3	66.0	59.9
72.5°	52.6	53.8	52.6	52.6	51.4	52.0	49.5	48.3	47.1	44.6	41.0
75°	37.9	34.9	36.1	36.7	34.9	36.1	33.6	31.2	31.2	29.3	27.5
77.5°	24.5	23.9	24.5	25.1	24.5	23.9	22.6	21.4	21.4	20.8	18.9
80°	17.7	17.1	17.1	17.1	16.5	17.1	15.9	15.9	14.7	14.1	12.8
82.5°	11.6	11.6	11.0	11.6	11.0	11.6	9.8	9.8	9.8	9.2	8.0
85°	8.0	6.7	6.7	7.3	6.1	7.3	6.7	6.1	5.5	5.5	4.9
87.5°	3.7	4.3	3.7	4.3	3.7	3.7	4.3	3.7	3.7	2.4	2.4
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°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1245.9	1246.5	1246.5	1249.0	1250.2	1250.8	1250.8	1255.7	1253.9	1255.1	1256.3
5°	1228.2	1231.9	1233.1	1233.1	1239.8	1242.3	1244.7	1250.2	1250.8	1254.5	1258.8
7.5°	1211.1	1215.4	1217.8	1223.3	1227.6	1231.9	1239.2	1242.9	1246.5	1251.4	1256.9
10°	1194.6	1199.5	1204.4	1208.6	1215.4	1220.9	1225.8	1234.3	1238.6	1245.3	1252.7
12.5°	1178.7	1185.4	1189.7	1197.0	1204.4	1209.2	1216.6	1224.5	1231.3	1238.0	1246.5
15°	1164.6	1172.6	1177.5	1185.4	1193.4	1200.1	1208.0	1217.8	1222.7	1230.7	1238.6
17.5°	1149.3	1157.9	1164.0	1171.3	1181.1	1188.5	1195.2	1205.0	1211.1	1219.6	1228.8
20°	1133.4	1142.0	1149.3	1156.7	1166.5	1173.8	1181.7	1191.5	1198.2	1206.8	1214.1
22.5°	1114.5	1122.5	1130.4	1138.9	1148.7	1154.8	1164.0	1172.6	1179.9	1187.9	1195.2
25°	1090.0	1099.8	1105.9	1113.9	1121.8	1128.5	1138.3	1146.9	1153.0	1160.3	1167.1
27.5°	1061.3	1068.7	1073.5	1080.3	1088.2	1094.3	1101.6	1110.2	1116.3	1123.1	1127.9
30°	1012.4	1019.1	1023.4	1028.3	1036.2	1041.8	1047.9	1055.8	1060.1	1065.0	1069.3
32.5°	948.2	953.7	956.1	959.8	965.3	970.8	975.7	982.4	984.3	987.3	987.3
35°	855.3	856.5	855.9	857.1	859.6	862.6	866.9	871.2	873.6	873.6	871.8
37.5°	746.5	739.1	731.2	725.1	723.2	722.0	724.5	726.3	728.7	729.9	726.9
40°	633.4	616.9	599.1	583.2	572.2	567.3	565.5	566.7	566.7	571.0	571.0
42.5°	536.2	510.5	484.2	460.3	444.4	432.2	426.7	426.7	427.3	430.4	432.2
45°	455.5	423.1	392.5	366.2	344.2	328.3	321.0	319.1	318.5	319.7	324.0
47.5°	393.7	360.1	328.3	295.9	272.7	256.8	250.1	247.6	245.1	247.6	248.2
50°	345.4	310.6	277.0	244.5	220.1	206.0	197.5	193.8	193.2	193.2	194.4
52.5°	301.4	269.0	235.4	202.4	176.7	163.2	155.3	153.4	151.0	153.4	153.4
55°	259.8	227.4	194.4	163.2	141.8	127.8	120.4	118.0	116.8	118.6	118.6
57.5°	214.6	187.1	156.5	128.4	107.0	97.2	91.7	88.7	88.0	89.3	88.0
60°	176.1	152.8	126.5	100.9	84.4	74.0	69.7	68.5	67.2	68.5	68.5
62.5°	139.4	119.8	98.4	78.9	64.8	57.5	52.6	52.6	52.0	52.0	52.6
65°	103.3	88.0	72.7	56.2	45.2	39.7	36.1	36.1	35.5	36.1	35.5
67.5°	75.2	64.8	52.6	41.0	32.4	29.3	26.9	25.1	26.3	25.1	24.5
70°	55.0	46.5	37.9	31.2	25.1	22.0	20.2	19.6	18.3	18.3	18.3
72.5°	36.7	31.2	25.7	20.2	16.5	13.4	12.8	11.6	10.4	11.0	12.2
75°	24.5	20.8	18.3	14.7	11.0	11.0	7.3	7.3	6.1	7.3	5.5
77.5°	17.1	14.1	11.0	9.2	7.3	6.7	4.9	4.9	4.3	4.3	4.3
80°	12.2	10.4	8.0	6.7	4.9	4.9	4.3	3.7	3.0	3.0	3.7
82.5°	7.3	5.5	5.5	4.9	3.0	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.3	3.7	3.0	1.8	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.4	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°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1259.4	1258.8	1260.0	1260.0	1263.7	1263.0	1264.9	1264.9	1263.7	1264.3	1266.7
5°	1263.7	1265.5	1269.2	1272.2	1277.7	1280.2	1283.2	1286.3	1286.9	1288.7	1290.6
7.5°	1263.7	1269.8	1274.1	1279.6	1286.9	1291.2	1297.9	1303.4	1305.8	1308.9	1312.6
10°	1261.2	1267.3	1275.3	1281.4	1290.6	1297.3	1304.0	1312.6	1316.2	1321.1	1326.0
12.5°	1256.3	1263.0	1271.6	1279.6	1289.9	1296.1	1304.6	1312.6	1318.1	1324.8	1330.3
15°	1249.0	1256.9	1264.9	1272.8	1283.8	1291.2	1299.1	1308.3	1313.8	1321.1	1326.0
17.5°	1237.4	1245.9	1253.3	1260.6	1271.0	1279.6	1286.9	1295.5	1301.0	1307.1	1313.8
20°	1223.3	1231.3	1239.2	1245.3	1255.7	1263.0	1271.0	1278.9	1283.2	1284.5	1294.9
22.5°	1205.6	1211.1	1217.2	1227.0	1233.1	1239.8	1247.2	1254.5	1258.8	1265.5	1269.2
25°	1176.2	1181.7	1188.5	1192.7	1200.1	1205.6	1212.9	1220.9	1223.3	1228.2	1231.9
27.5°	1135.3	1138.3	1141.4	1145.1	1149.3	1152.4	1156.7	1160.3	1162.8	1165.2	1167.7
30°	1070.5	1070.5	1070.5	1068.0	1069.9	1071.7	1072.3	1071.7	1071.7	1071.1	1071.1
32.5°	984.9	980.0	974.5	969.6	967.8	965.3	964.1	962.3	959.2	957.4	958.0
35°	869.3	858.3	851.6	845.5	840.6	836.9	835.1	833.3	832.7	830.2	827.8
37.5°	725.1	717.1	712.2	708.6	704.3	700.6	701.2	701.8	703.7	702.4	703.0
40°	572.2	570.4	572.2	567.9	566.7	567.9	571.0	575.3	577.7	580.2	584.5
42.5°	435.3	438.3	442.6	442.6	444.4	446.9	450.6	457.3	460.9	465.2	470.1
45°	327.7	331.4	336.9	338.7	339.9	343.0	347.3	352.7	355.2	358.9	363.1
47.5°	252.5	254.9	258.0	261.0	264.1	265.3	269.6	269.6	272.7	275.1	276.3
50°	196.9	199.3	201.7	203.6	204.8	206.6	207.9	209.7	210.3	211.5	212.1
52.5°	154.1	157.1	157.1	158.3	160.2	162.0	161.4	162.0	162.6	162.6	164.4
55°	120.4	120.4	122.3	122.3	123.5	122.9	123.5	123.5	123.5	123.5	124.1
57.5°	89.9	90.5	92.3	91.1	90.5	91.7	90.5	91.7	91.1	92.3	90.5
60°	69.1	69.1	69.7	69.7	70.3	70.3	70.3	69.7	69.7	69.1	69.1
62.5°	52.0	52.6	53.2	52.6	52.6	52.6	52.0	52.0	51.4	50.7	50.7
65°	34.9	34.2	35.5	34.2	34.9	34.9	34.2	34.9	33.0	33.6	33.0
67.5°	25.1	24.5	23.9	24.5	23.9	23.2	23.2	23.9	24.5	22.6	22.6
70°	16.5	17.1	16.5	17.1	17.7	17.7	17.1	16.5	17.1	15.9	16.5
72.5°	10.4	10.4	10.4	10.4	10.4	11.0	11.0	11.0	9.8	9.8	9.2
75°	4.9	6.7	5.5	4.9	6.7	6.7	6.1	6.1	5.5	5.5	5.5
77.5°	4.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.0	3.7	3.0
80°	2.4	2.4	2.4	1.8	2.4	2.4	3.0	2.4	2.4	1.8	3.0
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: P244526

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1266.1	1265.5	1266.1	1266.7	1266.1	1265.5	1266.1	1266.7	1264.3	1263.7	1264.9
5°	1293.0	1293.0	1294.2	1294.9	1294.2	1293.0	1293.0	1290.6	1288.7	1286.9	1286.3
7.5°	1316.2	1317.5	1318.7	1319.3	1318.7	1317.5	1316.2	1312.6	1308.9	1305.8	1303.4
10°	1330.3	1332.1	1334.6	1335.8	1334.6	1332.1	1330.3	1326.0	1321.1	1316.2	1312.6
12.5°	1336.4	1338.3	1341.3	1340.7	1341.3	1338.3	1336.4	1330.3	1324.8	1318.1	1312.6
15°	1332.1	1334.6	1337.6	1338.9	1337.6	1334.6	1332.1	1326.0	1321.1	1313.8	1308.3
17.5°	1318.7	1322.4	1324.2	1326.0	1324.2	1322.4	1318.7	1313.8	1307.1	1301.0	1295.5
20°	1300.3	1302.8	1305.2	1305.8	1305.2	1302.8	1300.3	1294.9	1284.5	1283.2	1278.9
22.5°	1274.1	1275.9	1281.4	1279.6	1281.4	1275.9	1274.1	1269.2	1265.5	1258.8	1254.5
25°	1236.1	1238.0	1238.6	1239.2	1238.6	1238.0	1236.1	1231.9	1228.2	1223.3	1220.9
27.5°	1170.7	1170.7	1172.0	1172.6	1172.0	1170.7	1170.7	1167.7	1165.2	1162.8	1160.3
30°	1071.7	1071.7	1071.7	1074.8	1071.7	1071.7	1071.7	1071.1	1071.1	1071.7	1071.7
32.5°	957.4	956.1	954.9	956.1	954.9	956.1	957.4	958.0	957.4	959.2	962.3
35°	827.8	827.2	829.0	826.6	829.0	827.2	827.8	827.8	830.2	832.7	833.3
37.5°	703.7	702.4	704.9	702.4	704.9	702.4	703.7	703.0	702.4	703.7	701.8
40°	585.7	586.9	586.9	591.8	586.9	586.9	585.7	584.5	580.2	577.7	575.3
42.5°	472.6	476.2	475.0	478.7	475.0	476.2	472.6	470.1	465.2	460.9	457.3
45°	365.6	368.0	368.0	369.3	368.0	368.0	365.6	363.1	358.9	355.2	352.7
47.5°	280.6	280.6	280.6	281.2	280.6	280.6	280.6	276.3	275.1	272.7	269.6
50°	213.4	214.0	214.6	215.2	214.6	214.0	213.4	212.1	211.5	210.3	209.7
52.5°	163.8	164.4	163.2	164.4	163.2	164.4	163.8	164.4	162.6	162.6	162.0
55°	124.1	123.5	124.1	124.7	124.1	123.5	124.1	124.1	123.5	123.5	123.5
57.5°	91.1	89.9	89.9	89.9	89.9	89.9	91.1	90.5	92.3	91.1	91.7
60°	67.9	68.5	68.5	69.1	68.5	68.5	67.9	69.1	69.1	69.7	69.7
62.5°	50.1	52.0	50.7	52.0	50.7	52.0	50.1	50.7	50.7	51.4	52.0
65°	32.4	32.4	32.4	33.0	32.4	32.4	32.4	33.0	33.6	33.0	34.9
67.5°	22.0	22.6	23.9	23.2	23.9	22.6	22.0	22.6	22.6	24.5	23.9
70°	17.7	15.9	15.9	17.7	15.9	15.9	17.7	16.5	15.9	17.1	16.5
72.5°	10.4	9.2	10.4	10.4	10.4	9.2	10.4	9.2	9.8	9.8	11.0
75°	5.5	4.9	4.3	6.1	4.3	4.9	5.5	5.5	5.5	5.5	6.1
77.5°	3.7	3.0	4.3	4.3	4.3	3.0	3.7	3.0	3.7	3.0	3.7
80°	1.8	2.4	1.8	3.0	1.8	2.4	1.8	3.0	1.8	2.4	2.4
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: P244526

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1264.9	1263.0	1263.7	1260.0	1260.0	1258.8	1259.4	1256.3	1255.1	1253.9	1255.7
5°	1283.2	1280.2	1277.7	1272.2	1269.2	1265.5	1263.7	1258.8	1254.5	1250.8	1250.2
7.5°	1297.9	1291.2	1286.9	1279.6	1274.1	1269.8	1263.7	1256.9	1251.4	1246.5	1242.9
10°	1304.0	1297.3	1290.6	1281.4	1275.3	1267.3	1261.2	1252.7	1245.3	1238.6	1234.3
12.5°	1304.6	1296.1	1289.9	1279.6	1271.6	1263.0	1256.3	1246.5	1238.0	1231.3	1224.5
15°	1299.1	1291.2	1283.8	1272.8	1264.9	1256.9	1249.0	1238.6	1230.7	1222.7	1217.8
17.5°	1286.9	1279.6	1271.0	1260.6	1253.3	1245.9	1237.4	1228.8	1219.6	1211.1	1205.0
20°	1271.0	1263.0	1255.7	1245.3	1239.2	1231.3	1223.3	1214.1	1206.8	1198.2	1191.5
22.5°	1247.2	1239.8	1233.1	1227.0	1217.2	1211.1	1205.6	1195.2	1187.9	1179.9	1172.6
25°	1212.9	1205.6	1200.1	1192.7	1188.5	1181.7	1176.2	1167.1	1160.3	1153.0	1146.9
27.5°	1156.7	1152.4	1149.3	1145.1	1141.4	1138.3	1135.3	1127.9	1123.1	1116.3	1110.2
30°	1072.3	1071.7	1069.9	1068.0	1070.5	1070.5	1070.5	1069.3	1065.0	1060.1	1055.8
32.5°	964.1	965.3	967.8	969.6	974.5	980.0	984.9	987.3	987.3	984.3	982.4
35°	835.1	836.9	840.6	845.5	851.6	858.3	869.3	871.8	873.6	873.6	871.2
37.5°	701.2	700.6	704.3	708.6	712.2	717.1	725.1	726.9	729.9	728.7	726.3
40°	571.0	567.9	566.7	567.9	572.2	570.4	572.2	571.0	571.0	566.7	566.7
42.5°	450.6	446.9	444.4	442.6	442.6	438.3	435.3	432.2	430.4	427.3	426.7
45°	347.3	343.0	339.9	338.7	336.9	331.4	327.7	324.0	319.7	318.5	319.1
47.5°	269.6	265.3	264.1	261.0	258.0	254.9	252.5	248.2	247.6	245.1	247.6
50°	207.9	206.6	204.8	203.6	201.7	199.3	196.9	194.4	193.2	193.2	193.8
52.5°	161.4	162.0	160.2	158.3	157.1	157.1	154.1	153.4	153.4	151.0	153.4
55°	123.5	122.9	123.5	122.3	122.3	120.4	120.4	118.6	118.6	116.8	118.0
57.5°	90.5	91.7	90.5	91.1	92.3	90.5	89.9	88.0	89.3	88.0	88.7
60°	70.3	70.3	70.3	69.7	69.7	69.1	69.1	68.5	68.5	67.2	68.5
62.5°	52.0	52.6	52.6	52.6	53.2	52.6	52.0	52.6	52.0	52.0	52.6
65°	34.2	34.9	34.9	34.2	35.5	34.2	34.9	35.5	36.1	35.5	36.1
67.5°	23.2	23.2	23.9	24.5	23.9	24.5	25.1	24.5	25.1	26.3	25.1
70°	17.1	17.7	17.7	17.1	16.5	17.1	16.5	18.3	18.3	18.3	19.6
72.5°	11.0	11.0	10.4	10.4	10.4	10.4	10.4	12.2	11.0	10.4	11.6
75°	6.1	6.7	6.7	4.9	5.5	6.7	4.9	5.5	7.3	6.1	7.3
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.3	4.3	4.3	4.9
80°	3.0	2.4	2.4	1.8	2.4	2.4	2.4	3.7	3.0	3.0	3.7
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4
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: P244526

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1250.8	1250.8	1250.2	1249.0	1246.5	1246.5	1245.9	1244.1	1242.9	1242.3	1242.3
5°	1244.7	1242.3	1239.8	1233.1	1233.1	1231.9	1228.2	1225.8	1224.5	1221.5	1220.3
7.5°	1239.2	1231.9	1227.6	1223.3	1217.8	1215.4	1211.1	1209.2	1205.0	1201.9	1200.1
10°	1225.8	1220.9	1215.4	1208.6	1204.4	1199.5	1194.6	1190.9	1185.4	1182.3	1179.9
12.5°	1216.6	1209.2	1204.4	1197.0	1189.7	1185.4	1178.7	1174.4	1168.9	1162.8	1159.1
15°	1208.0	1200.1	1193.4	1185.4	1177.5	1172.6	1164.6	1159.7	1151.8	1145.7	1141.4
17.5°	1195.2	1188.5	1181.1	1171.3	1164.0	1157.9	1149.3	1143.2	1135.9	1127.9	1123.7
20°	1181.7	1173.8	1166.5	1156.7	1149.3	1142.0	1133.4	1126.7	1118.2	1110.8	1105.9
22.5°	1164.0	1154.8	1148.7	1138.9	1130.4	1122.5	1114.5	1106.5	1098.6	1092.5	1087.0
25°	1138.3	1128.5	1121.8	1113.9	1105.9	1099.8	1090.0	1085.2	1077.2	1071.7	1066.2
27.5°	1101.6	1094.3	1088.2	1080.3	1073.5	1068.7	1061.3	1056.4	1049.7	1044.8	1040.5
30°	1047.9	1041.8	1036.2	1028.3	1023.4	1019.1	1012.4	1008.1	1003.2	997.7	996.5
32.5°	975.7	970.8	965.3	959.8	956.1	953.7	948.2	945.8	940.9	937.8	934.8
35°	866.9	862.6	859.6	857.1	855.9	856.5	855.3	857.7	858.9	858.3	858.9
37.5°	724.5	722.0	723.2	725.1	731.2	739.1	746.5	757.5	764.8	772.1	778.9
40°	565.5	567.3	572.2	583.2	599.1	616.9	633.4	654.2	674.9	689.6	703.0
42.5°	426.7	432.2	444.4	460.3	484.2	510.5	536.2	566.7	591.8	616.2	633.4
45°	321.0	328.3	344.2	366.2	392.5	423.1	455.5	489.7	519.7	544.7	563.7
47.5°	250.1	256.8	272.7	295.9	328.3	360.1	393.7	429.2	460.3	484.8	501.3
50°	197.5	206.0	220.1	244.5	277.0	310.6	345.4	380.2	409.6	430.4	445.1
52.5°	155.3	163.2	176.7	202.4	235.4	269.0	301.4	335.6	361.3	381.5	391.3
55°	120.4	127.8	141.8	163.2	194.4	227.4	259.8	289.2	313.0	327.7	336.9
57.5°	91.7	97.2	107.0	128.4	156.5	187.1	214.6	243.9	262.3	272.7	278.8
60°	69.7	74.0	84.4	100.9	126.5	152.8	176.1	198.1	212.8	221.3	227.4
62.5°	52.6	57.5	64.8	78.9	98.4	119.8	139.4	155.9	168.1	173.6	177.9
65°	36.1	39.7	45.2	56.2	72.7	88.0	103.3	115.6	123.5	129.6	132.1
67.5°	26.9	29.3	32.4	41.0	52.6	64.8	75.2	83.7	92.3	94.8	99.0
70°	20.2	22.0	25.1	31.2	37.9	46.5	55.0	59.9	66.0	70.3	71.5
72.5°	12.8	13.4	16.5	20.2	25.7	31.2	36.7	41.0	44.6	47.1	48.3
75°	7.3	11.0	11.0	14.7	18.3	20.8	24.5	27.5	29.3	31.2	31.2
77.5°	4.9	6.7	7.3	9.2	11.0	14.1	17.1	18.9	20.8	21.4	21.4
80°	4.3	4.9	4.9	6.7	8.0	10.4	12.2	12.8	14.1	14.7	15.9
82.5°	1.8	2.4	3.0	4.9	5.5	5.5	7.3	8.0	9.2	9.8	9.8
85°	0.6	1.2	1.2	1.8	3.0	3.7	4.3	4.9	5.5	5.5	6.1
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.4	2.4	2.4	3.7	3.7
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: P244526

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1241.0	1241.7	1239.2	1238.6	1237.4	1238.0	1239.2
5°	1218.4	1219.0	1216.6	1214.1	1214.1	1213.5	1214.1
7.5°	1197.0	1197.6	1194.0	1192.7	1190.3	1190.9	1190.9
10°	1175.6	1175.6	1170.1	1169.5	1167.7	1167.1	1167.1
12.5°	1154.8	1153.0	1148.7	1146.3	1147.5	1143.8	1143.8
15°	1136.5	1133.4	1127.9	1126.1	1123.1	1121.8	1121.8
17.5°	1117.5	1115.1	1110.2	1106.5	1102.9	1102.3	1102.9
20°	1099.2	1096.8	1090.6	1088.2	1085.2	1085.2	1083.9
22.5°	1080.9	1078.4	1072.9	1071.1	1066.8	1066.8	1067.4
25°	1061.9	1060.1	1054.0	1052.7	1052.1	1049.7	1050.9
27.5°	1036.2	1035.0	1030.1	1028.3	1025.8	1025.2	1026.5
30°	989.2	987.3	983.7	981.8	977.6	978.2	979.4
32.5°	930.5	928.0	923.1	921.3	917.6	916.4	917.0
35°	857.1	855.3	851.0	851.0	847.3	846.1	847.3
37.5°	782.5	784.4	782.5	784.4	782.5	781.9	782.5
40°	712.2	719.0	720.2	726.9	724.5	728.1	727.5
42.5°	645.0	656.0	660.3	665.8	664.5	667.0	668.8
45°	577.1	586.3	590.6	594.2	594.8	596.1	596.7
47.5°	512.9	520.3	520.9	525.1	524.5	524.5	526.4
50°	453.0	457.9	459.1	462.2	459.7	458.5	459.1
52.5°	397.4	402.3	401.0	402.3	399.2	398.0	398.6
55°	340.5	343.0	343.0	343.0	339.3	339.3	339.3
57.5°	282.4	283.1	281.8	282.4	281.8	278.2	277.6
60°	229.3	229.3	228.6	229.3	227.4	225.6	225.6
62.5°	179.1	180.3	182.8	180.3	179.1	180.3	178.5
65°	133.9	136.3	135.7	136.9	136.3	136.3	135.1
67.5°	100.9	101.5	102.1	102.7	102.7	102.7	102.7
70°	74.0	75.8	75.2	75.2	75.2	75.2	78.9
72.5°	49.5	52.0	51.4	52.6	52.6	53.8	52.6
75°	33.6	36.1	34.9	36.7	36.1	34.9	37.9
77.5°	22.6	23.9	24.5	25.1	24.5	23.9	24.5
80°	15.9	17.1	16.5	17.1	17.1	17.1	17.7
82.5°	9.8	11.6	11.0	11.6	11.0	11.6	11.6
85°	6.7	7.3	6.1	7.3	6.7	6.7	8.0
87.5°	4.3	3.7	3.7	4.3	3.7	4.3	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)