

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: P244952

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244952
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 EC8B20827 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

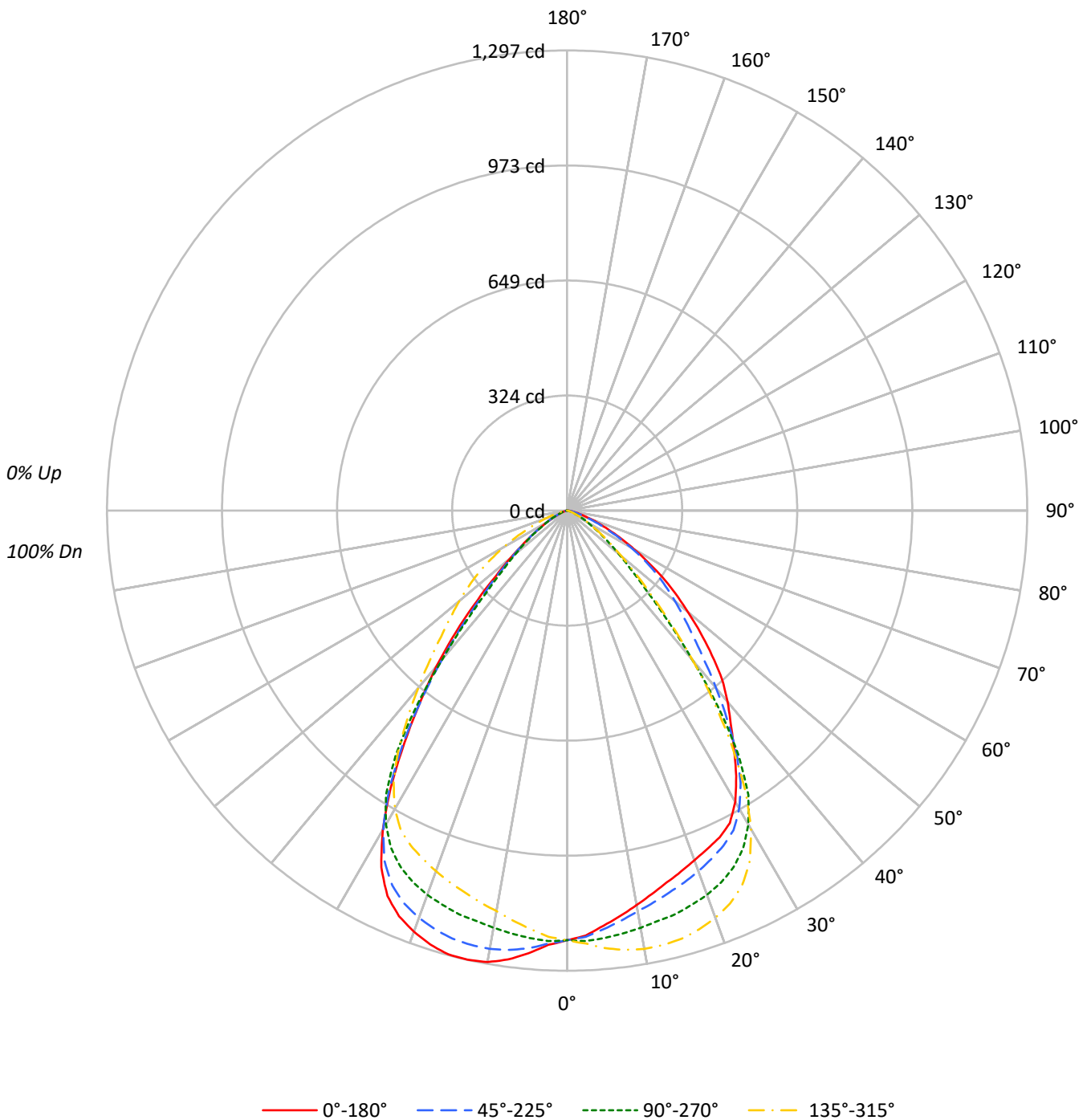
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37346	37346	37346	37346
5°	36352	37433	38770	37433
10°	35348	37383	40458	37383
15°	34641	37607	41345	37607
20°	34407	37820	41449	37820
25°	34586	37746	40785	37746
30°	33730	36365	37017	36365
35°	30853	31723	30097	31723
40°	28327	22067	23041	22067
45°	25171	13462	15577	13462
50°	21305	8990	9988	8990
55°	17645	6134	6484	6134
60°	13457	4083	4120	4083
65°	9537	2546	2328	2546
70°	6879	1704	1551	1704
75°	4373	846	703	846
80°	3054	639	515	639
85°	2724	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	5.7
10°-20°	333.8	16.4
20°-30°	505.5	24.8
30°-40°	506.6	24.8
40°-50°	318.1	15.6
50°-60°	169.5	8.3
60°-70°	69.7	3.4
70°-80°	18.4	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°	954.5	46.8
0°-40°	1461.1	71.6
0°-60°	1948.8	95.5
0°-90°	2040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1211	1211	1211	1211	1211	
5°	1174	1209	1252	1209	1174	111
15°	1085	1178	1295	1178	1085	307
25°	1016	1109	1199	1109	1016	466
35°	820	843	800	843	820	513
45°	577	309	357	309	577	444
55°	328	114	121	114	328	293
65°	131	35	32	35	131	136
75°	37	7	6	7	37	42
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°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1198.7	1197.5	1196.9	1198.1	1198.7	1201.0	1200.4	1201.6	1201.6	1202.2	1203.4
5°	1174.4	1173.8	1174.4	1174.4	1176.8	1179.1	1178.6	1180.3	1181.5	1184.5	1185.6
7.5°	1152.0	1152.0	1151.4	1153.7	1154.9	1158.5	1157.9	1160.8	1162.6	1165.5	1169.7
10°	1128.9	1128.9	1129.5	1131.2	1131.9	1137.2	1137.2	1141.3	1143.7	1146.6	1152.0
12.5°	1106.4	1106.4	1110.0	1108.8	1111.1	1115.3	1117.1	1121.2	1124.7	1130.7	1136.0
15°	1085.1	1085.1	1086.3	1089.3	1091.0	1096.4	1099.3	1104.1	1108.2	1114.1	1121.8
17.5°	1066.8	1066.2	1066.8	1070.3	1073.9	1078.6	1081.0	1086.9	1091.0	1098.7	1105.8
20°	1048.5	1049.7	1049.7	1052.6	1055.0	1060.9	1063.2	1069.8	1074.5	1081.6	1089.9
22.5°	1032.5	1031.9	1031.9	1036.1	1037.8	1043.1	1045.5	1051.4	1056.7	1062.7	1070.3
25°	1016.5	1015.3	1017.7	1018.3	1019.5	1025.4	1027.2	1031.3	1036.6	1042.0	1049.7
27.5°	992.9	991.7	992.3	994.6	996.4	1001.1	1002.3	1006.5	1010.6	1015.3	1021.9
30°	947.3	946.2	945.6	949.7	951.5	955.0	956.8	963.9	965.1	970.4	975.1
32.5°	887.0	886.4	887.6	891.2	892.9	897.7	900.0	904.2	907.1	910.1	914.8
35°	819.6	818.4	819.6	823.2	823.2	827.3	829.1	830.8	830.3	830.8	829.7
37.5°	756.9	756.3	756.9	758.7	756.9	758.7	756.9	753.4	746.9	739.8	732.7
40°	703.7	704.3	700.8	703.1	696.6	695.4	688.9	680.0	667.1	652.9	632.8
42.5°	646.9	645.2	642.8	644.0	638.7	634.5	623.9	612.6	596.1	572.4	548.2
45°	577.2	576.6	575.4	574.8	571.2	567.1	558.2	545.2	526.9	502.7	473.7
47.5°	509.2	507.4	507.4	508.0	503.8	503.2	496.1	484.9	468.9	445.3	415.1
50°	444.1	443.5	444.7	447.1	444.1	442.9	438.2	430.5	416.3	396.2	367.8
52.5°	385.6	385.0	386.2	389.1	387.9	389.1	384.4	378.5	369.0	349.5	324.7
55°	328.2	328.2	328.2	331.7	331.7	331.7	329.4	325.8	317.0	302.8	279.7
57.5°	268.5	269.1	272.6	273.2	272.6	273.8	273.2	269.6	263.8	253.7	236.0
60°	218.2	218.2	220.0	221.8	221.2	221.8	221.8	220.0	214.1	205.8	191.6
62.5°	172.7	174.4	173.3	174.4	176.8	174.4	173.3	172.1	167.9	162.6	150.8
65°	130.7	131.9	131.9	132.5	131.3	131.9	129.5	127.7	125.4	119.5	111.8
67.5°	99.4	99.4	99.4	99.4	98.7	98.2	97.6	95.8	91.7	89.3	81.0
70°	76.3	72.7	72.7	72.7	72.7	73.3	71.6	69.2	68.0	63.9	58.0
72.5°	50.8	52.0	50.8	50.8	49.7	50.3	47.9	46.7	45.5	43.2	39.6
75°	36.7	33.7	34.9	35.5	33.7	34.9	32.5	30.2	30.2	28.4	26.6
77.5°	23.7	23.1	23.7	24.2	23.7	23.1	21.9	20.7	20.7	20.1	18.3
80°	17.2	16.6	16.6	16.6	16.0	16.6	15.4	15.4	14.2	13.6	12.4
82.5°	11.2	11.2	10.6	11.2	10.6	11.2	9.5	9.5	9.5	8.9	7.7
85°	7.7	6.5	6.5	7.1	5.9	7.1	6.5	5.9	5.3	5.3	4.7
87.5°	3.6	4.1	3.6	4.1	3.6	3.6	4.1	3.6	3.6	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°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1205.2	1205.8	1205.8	1208.1	1209.3	1209.9	1209.9	1214.6	1212.9	1214.1	1215.2
5°	1188.0	1191.6	1192.8	1192.8	1199.3	1201.6	1204.0	1209.3	1209.9	1213.4	1217.6
7.5°	1171.5	1175.6	1178.0	1183.3	1187.4	1191.6	1198.7	1202.2	1205.8	1210.5	1215.8
10°	1155.5	1160.2	1165.0	1169.1	1175.6	1180.9	1185.6	1193.9	1198.1	1204.6	1211.7
12.5°	1140.1	1146.6	1150.8	1157.9	1165.0	1169.7	1176.8	1184.5	1191.0	1197.5	1205.8
15°	1126.5	1134.2	1138.9	1146.6	1154.3	1160.8	1168.5	1178.0	1182.7	1190.4	1198.1
17.5°	1111.7	1120.0	1125.9	1133.0	1142.5	1149.6	1156.1	1165.5	1171.5	1179.7	1188.6
20°	1096.4	1104.6	1111.7	1118.8	1128.3	1135.4	1143.1	1152.5	1159.0	1167.3	1174.4
22.5°	1078.0	1085.7	1093.4	1101.7	1111.1	1117.1	1125.9	1134.2	1141.3	1149.0	1156.1
25°	1054.4	1063.8	1069.8	1077.4	1085.1	1091.6	1101.1	1109.4	1115.3	1122.4	1128.9
27.5°	1026.6	1033.7	1038.4	1044.9	1052.6	1058.5	1065.6	1073.9	1079.8	1086.3	1091.0
30°	979.3	985.8	989.9	994.6	1002.3	1007.7	1013.6	1021.3	1025.4	1030.1	1034.3
32.5°	917.2	922.5	924.9	928.4	933.7	939.1	943.8	950.3	952.1	955.0	955.0
35°	827.3	828.5	827.9	829.1	831.4	834.4	838.5	842.7	845.0	845.0	843.3
37.5°	722.0	715.0	707.3	701.3	699.6	698.4	700.8	702.5	704.9	706.1	703.1
40°	612.6	596.7	579.5	564.1	553.5	548.8	547.0	548.2	548.2	552.3	552.3
42.5°	518.6	493.8	468.4	445.3	429.9	418.1	412.8	412.8	413.3	416.3	418.1
45°	440.6	409.2	379.6	354.2	332.9	317.5	310.5	308.7	308.1	309.3	313.4
47.5°	380.8	348.3	317.5	286.2	263.8	248.4	241.9	239.5	237.1	239.5	240.1
50°	334.1	300.4	267.9	236.5	212.9	199.3	191.0	187.4	186.9	186.9	188.1
52.5°	291.5	260.2	227.7	195.7	170.9	157.9	150.2	148.4	146.1	148.4	148.4
55°	251.3	220.0	188.1	157.9	137.2	123.6	116.5	114.1	112.9	114.7	114.7
57.5°	207.6	180.9	151.4	124.2	103.5	94.0	88.7	85.8	85.1	86.3	85.1
60°	170.3	147.8	122.4	97.6	81.6	71.6	67.4	66.2	65.0	66.2	66.2
62.5°	134.8	115.9	95.2	76.3	62.7	55.6	50.8	50.8	50.3	50.3	50.8
65°	99.9	85.1	70.4	54.4	43.8	38.4	34.9	34.9	34.3	34.9	34.3
67.5°	72.7	62.7	50.8	39.6	31.4	28.4	26.0	24.2	25.4	24.2	23.7
70°	53.2	44.9	36.7	30.2	24.2	21.3	19.5	18.9	17.7	17.7	17.7
72.5°	35.5	30.2	24.8	19.5	16.0	13.0	12.4	11.2	10.1	10.6	11.8
75°	23.7	20.1	17.7	14.2	10.6	10.6	7.1	7.1	5.9	7.1	5.3
77.5°	16.6	13.6	10.6	8.9	7.1	6.5	4.7	4.7	4.1	4.1	4.1
80°	11.8	10.1	7.7	6.5	4.7	4.7	4.1	3.6	2.9	2.9	3.6
82.5°	7.1	5.3	5.3	4.7	2.9	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.1	3.6	2.9	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°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1218.2	1217.6	1218.8	1218.8	1222.3	1221.7	1223.5	1223.5	1222.3	1222.9	1225.3
5°	1222.3	1224.1	1227.6	1230.6	1235.9	1238.3	1241.2	1244.2	1244.8	1246.6	1248.3
7.5°	1222.3	1228.2	1232.4	1237.7	1244.8	1248.9	1255.4	1260.8	1263.1	1266.1	1269.6
10°	1219.9	1225.9	1233.5	1239.5	1248.3	1254.8	1261.3	1269.6	1273.2	1277.9	1282.6
12.5°	1215.2	1221.7	1230.0	1237.7	1247.7	1253.7	1261.9	1269.6	1275.0	1281.5	1286.8
15°	1208.1	1215.8	1223.5	1231.2	1241.8	1248.9	1256.6	1265.5	1270.8	1277.9	1282.6
17.5°	1196.9	1205.2	1212.3	1219.4	1229.4	1237.7	1244.8	1253.1	1258.4	1264.3	1270.8
20°	1183.3	1191.0	1198.7	1204.6	1214.6	1221.7	1229.4	1237.1	1241.2	1242.4	1252.5
22.5°	1166.2	1171.5	1177.4	1186.8	1192.8	1199.3	1206.4	1213.4	1217.6	1224.1	1227.6
25°	1137.7	1143.1	1149.6	1153.7	1160.8	1166.2	1173.2	1180.9	1183.3	1188.0	1191.6
27.5°	1098.1	1101.1	1104.1	1107.6	1111.7	1114.7	1118.8	1122.4	1124.7	1127.1	1129.5
30°	1035.4	1035.4	1035.4	1033.1	1034.9	1036.6	1037.2	1036.6	1036.6	1036.1	1036.1
32.5°	952.7	947.9	942.6	937.9	936.1	933.7	932.6	930.8	927.8	926.1	926.6
35°	840.9	830.3	823.8	817.8	813.1	809.6	807.8	806.0	805.4	803.1	800.7
37.5°	701.3	693.7	688.9	685.4	681.2	677.7	678.3	678.9	680.6	679.5	680.0
40°	553.5	551.7	553.5	549.4	548.2	549.4	552.3	556.5	558.8	561.2	565.3
42.5°	421.0	424.0	428.1	428.1	429.9	432.3	435.8	442.3	445.9	450.0	454.8
45°	317.0	320.5	325.8	327.6	328.8	331.7	335.9	341.2	343.6	347.1	351.3
47.5°	244.2	246.6	249.5	252.5	255.5	256.6	260.8	260.8	263.8	266.1	267.3
50°	190.4	192.8	195.1	196.9	198.1	199.9	201.1	202.8	203.4	204.6	205.2
52.5°	149.0	152.0	152.0	153.2	154.9	156.7	156.1	156.7	157.3	157.3	159.1
55°	116.5	116.5	118.3	118.3	119.5	118.9	119.5	119.5	119.5	119.5	120.0
57.5°	86.9	87.5	89.3	88.1	87.5	88.7	87.5	88.7	88.1	89.3	87.5
60°	66.8	66.8	67.4	67.4	68.0	68.0	68.0	67.4	67.4	66.8	66.8
62.5°	50.3	50.8	51.5	50.8	50.8	50.8	50.3	50.3	49.7	49.1	49.1
65°	33.7	33.1	34.3	33.1	33.7	33.7	33.1	33.7	31.9	32.5	31.9
67.5°	24.2	23.7	23.1	23.7	23.1	22.5	22.5	23.1	23.7	21.9	21.9
70°	16.0	16.6	16.0	16.6	17.2	17.2	16.6	16.0	16.6	15.4	16.0
72.5°	10.1	10.1	10.1	10.1	10.1	10.6	10.6	10.6	9.5	9.5	8.9
75°	4.7	6.5	5.3	4.7	6.5	6.5	5.9	5.9	5.3	5.3	5.3
77.5°	4.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.9	3.6	2.9
80°	2.4	2.4	2.4	1.8	2.4	2.4	2.9	2.4	2.4	1.8	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: P244952

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1224.7	1224.1	1224.7	1225.3	1224.7	1224.1	1224.7	1225.3	1222.9	1222.3	1223.5
5°	1250.7	1250.7	1251.9	1252.5	1251.9	1250.7	1250.7	1248.3	1246.6	1244.8	1244.2
7.5°	1273.2	1274.4	1275.5	1276.1	1275.5	1274.4	1273.2	1269.6	1266.1	1263.1	1260.8
10°	1286.8	1288.6	1290.9	1292.1	1290.9	1288.6	1286.8	1282.6	1277.9	1273.2	1269.6
12.5°	1292.7	1294.5	1297.4	1296.8	1297.4	1294.5	1292.7	1286.8	1281.5	1275.0	1269.6
15°	1288.6	1290.9	1293.9	1295.1	1293.9	1290.9	1288.6	1282.6	1277.9	1270.8	1265.5
17.5°	1275.5	1279.1	1280.9	1282.6	1280.9	1279.1	1275.5	1270.8	1264.3	1258.4	1253.1
20°	1257.8	1260.2	1262.5	1263.1	1262.5	1260.2	1257.8	1252.5	1242.4	1241.2	1237.1
22.5°	1232.4	1234.2	1239.5	1237.7	1239.5	1234.2	1232.4	1227.6	1224.1	1217.6	1213.4
25°	1195.7	1197.5	1198.1	1198.7	1198.1	1197.5	1195.7	1191.6	1188.0	1183.3	1180.9
27.5°	1132.4	1132.4	1133.6	1134.2	1133.6	1132.4	1132.4	1129.5	1127.1	1124.7	1122.4
30°	1036.6	1036.6	1036.6	1039.6	1036.6	1036.6	1036.6	1036.1	1036.1	1036.6	1036.6
32.5°	926.1	924.9	923.7	924.9	923.7	924.9	926.1	926.6	926.1	927.8	930.8
35°	800.7	800.1	801.9	799.5	801.9	800.1	800.7	800.7	803.1	805.4	806.0
37.5°	680.6	679.5	681.8	679.5	681.8	679.5	680.6	680.0	679.5	680.6	678.9
40°	566.5	567.7	567.7	572.4	567.7	567.7	566.5	565.3	561.2	558.8	556.5
42.5°	457.1	460.7	459.5	463.0	459.5	460.7	457.1	454.8	450.0	445.9	442.3
45°	353.6	356.0	356.0	357.2	356.0	356.0	353.6	351.3	347.1	343.6	341.2
47.5°	271.4	271.4	271.4	272.0	271.4	271.4	271.4	267.3	266.1	263.8	260.8
50°	206.4	207.0	207.6	208.2	207.6	207.0	206.4	205.2	204.6	203.4	202.8
52.5°	158.5	159.1	157.9	159.1	157.9	159.1	158.5	159.1	157.3	157.3	156.7
55°	120.0	119.5	120.0	120.6	120.0	119.5	120.0	120.0	119.5	119.5	119.5
57.5°	88.1	86.9	86.9	86.9	86.9	86.9	88.1	87.5	89.3	88.1	88.7
60°	65.6	66.2	66.2	66.8	66.2	66.2	65.6	66.8	66.8	67.4	67.4
62.5°	48.5	50.3	49.1	50.3	49.1	50.3	48.5	49.1	49.1	49.7	50.3
65°	31.4	31.4	31.4	31.9	31.4	31.4	31.4	31.9	32.5	31.9	33.7
67.5°	21.3	21.9	23.1	22.5	23.1	21.9	21.3	21.9	21.9	23.7	23.1
70°	17.2	15.4	15.4	17.2	15.4	15.4	17.2	16.0	15.4	16.6	16.0
72.5°	10.1	8.9	10.1	10.1	10.1	8.9	10.1	8.9	9.5	9.5	10.6
75°	5.3	4.7	4.1	5.9	4.1	4.7	5.3	5.3	5.3	5.3	5.9
77.5°	3.6	2.9	4.1	4.1	4.1	2.9	3.6	2.9	3.6	2.9	3.6
80°	1.8	2.4	1.8	2.9	1.8	2.4	1.8	2.9	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: P244952

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1223.5	1221.7	1222.3	1218.8	1218.8	1217.6	1218.2	1215.2	1214.1	1212.9	1214.6
5°	1241.2	1238.3	1235.9	1230.6	1227.6	1224.1	1222.3	1217.6	1213.4	1209.9	1209.3
7.5°	1255.4	1248.9	1244.8	1237.7	1232.4	1228.2	1222.3	1215.8	1210.5	1205.8	1202.2
10°	1261.3	1254.8	1248.3	1239.5	1233.5	1225.9	1219.9	1211.7	1204.6	1198.1	1193.9
12.5°	1261.9	1253.7	1247.7	1237.7	1230.0	1221.7	1215.2	1205.8	1197.5	1191.0	1184.5
15°	1256.6	1248.9	1241.8	1231.2	1223.5	1215.8	1208.1	1198.1	1190.4	1182.7	1178.0
17.5°	1244.8	1237.7	1229.4	1219.4	1212.3	1205.2	1196.9	1188.6	1179.7	1171.5	1165.5
20°	1229.4	1221.7	1214.6	1204.6	1198.7	1191.0	1183.3	1174.4	1167.3	1159.0	1152.5
22.5°	1206.4	1199.3	1192.8	1186.8	1177.4	1171.5	1166.2	1156.1	1149.0	1141.3	1134.2
25°	1173.2	1166.2	1160.8	1153.7	1149.6	1143.1	1137.7	1128.9	1122.4	1115.3	1109.4
27.5°	1118.8	1114.7	1111.7	1107.6	1104.1	1101.1	1098.1	1091.0	1086.3	1079.8	1073.9
30°	1037.2	1036.6	1034.9	1033.1	1035.4	1035.4	1035.4	1034.3	1030.1	1025.4	1021.3
32.5°	932.6	933.7	936.1	937.9	942.6	947.9	952.7	955.0	955.0	952.1	950.3
35°	807.8	809.6	813.1	817.8	823.8	830.3	840.9	843.3	845.0	845.0	842.7
37.5°	678.3	677.7	681.2	685.4	688.9	693.7	701.3	703.1	706.1	704.9	702.5
40°	552.3	549.4	548.2	549.4	553.5	551.7	553.5	552.3	552.3	548.2	548.2
42.5°	435.8	432.3	429.9	428.1	428.1	424.0	421.0	418.1	416.3	413.3	412.8
45°	335.9	331.7	328.8	327.6	325.8	320.5	317.0	313.4	309.3	308.1	308.7
47.5°	260.8	256.6	255.5	252.5	249.5	246.6	244.2	240.1	239.5	237.1	239.5
50°	201.1	199.9	198.1	196.9	195.1	192.8	190.4	188.1	186.9	186.9	187.4
52.5°	156.1	156.7	154.9	153.2	152.0	152.0	149.0	148.4	148.4	146.1	148.4
55°	119.5	118.9	119.5	118.3	118.3	116.5	116.5	114.7	114.7	112.9	114.1
57.5°	87.5	88.7	87.5	88.1	89.3	87.5	86.9	85.1	86.3	85.1	85.8
60°	68.0	68.0	68.0	67.4	67.4	66.8	66.8	66.2	66.2	65.0	66.2
62.5°	50.3	50.8	50.8	50.8	51.5	50.8	50.3	50.8	50.3	50.3	50.8
65°	33.1	33.7	33.7	33.1	34.3	33.1	33.7	34.3	34.9	34.3	34.9
67.5°	22.5	22.5	23.1	23.7	23.1	23.7	24.2	23.7	24.2	25.4	24.2
70°	16.6	17.2	17.2	16.6	16.0	16.6	16.0	17.7	17.7	17.7	18.9
72.5°	10.6	10.6	10.1	10.1	10.1	10.1	10.1	11.8	10.6	10.1	11.2
75°	5.9	6.5	6.5	4.7	5.3	6.5	4.7	5.3	7.1	5.9	7.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.1	4.1	4.1	4.7
80°	2.9	2.4	2.4	1.8	2.4	2.4	2.4	3.6	2.9	2.9	3.6
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: P244952

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1209.9	1209.9	1209.3	1208.1	1205.8	1205.8	1205.2	1203.4	1202.2	1201.6	1201.6
5°	1204.0	1201.6	1199.3	1192.8	1192.8	1191.6	1188.0	1185.6	1184.5	1181.5	1180.3
7.5°	1198.7	1191.6	1187.4	1183.3	1178.0	1175.6	1171.5	1169.7	1165.5	1162.6	1160.8
10°	1185.6	1180.9	1175.6	1169.1	1165.0	1160.2	1155.5	1152.0	1146.6	1143.7	1141.3
12.5°	1176.8	1169.7	1165.0	1157.9	1150.8	1146.6	1140.1	1136.0	1130.7	1124.7	1121.2
15°	1168.5	1160.8	1154.3	1146.6	1138.9	1134.2	1126.5	1121.8	1114.1	1108.2	1104.1
17.5°	1156.1	1149.6	1142.5	1133.0	1125.9	1120.0	1111.7	1105.8	1098.7	1091.0	1086.9
20°	1143.1	1135.4	1128.3	1118.8	1111.7	1104.6	1096.4	1089.9	1081.6	1074.5	1069.8
22.5°	1125.9	1117.1	1111.1	1101.7	1093.4	1085.7	1078.0	1070.3	1062.7	1056.7	1051.4
25°	1101.1	1091.6	1085.1	1077.4	1069.8	1063.8	1054.4	1049.7	1042.0	1036.6	1031.3
27.5°	1065.6	1058.5	1052.6	1044.9	1038.4	1033.7	1026.6	1021.9	1015.3	1010.6	1006.5
30°	1013.6	1007.7	1002.3	994.6	989.9	985.8	979.3	975.1	970.4	965.1	963.9
32.5°	943.8	939.1	933.7	928.4	924.9	922.5	917.2	914.8	910.1	907.1	904.2
35°	838.5	834.4	831.4	829.1	827.9	828.5	827.3	829.7	830.8	830.3	830.8
37.5°	700.8	698.4	699.6	701.3	707.3	715.0	722.0	732.7	739.8	746.9	753.4
40°	547.0	548.8	553.5	564.1	579.5	596.7	612.6	632.8	652.9	667.1	680.0
42.5°	412.8	418.1	429.9	445.3	468.4	493.8	518.6	548.2	572.4	596.1	612.6
45°	310.5	317.5	332.9	354.2	379.6	409.2	440.6	473.7	502.7	526.9	545.2
47.5°	241.9	248.4	263.8	286.2	317.5	348.3	380.8	415.1	445.3	468.9	484.9
50°	191.0	199.3	212.9	236.5	267.9	300.4	334.1	367.8	396.2	416.3	430.5
52.5°	150.2	157.9	170.9	195.7	227.7	260.2	291.5	324.7	349.5	369.0	378.5
55°	116.5	123.6	137.2	157.9	188.1	220.0	251.3	279.7	302.8	317.0	325.8
57.5°	88.7	94.0	103.5	124.2	151.4	180.9	207.6	236.0	253.7	263.8	269.6
60°	67.4	71.6	81.6	97.6	122.4	147.8	170.3	191.6	205.8	214.1	220.0
62.5°	50.8	55.6	62.7	76.3	95.2	115.9	134.8	150.8	162.6	167.9	172.1
65°	34.9	38.4	43.8	54.4	70.4	85.1	99.9	111.8	119.5	125.4	127.7
67.5°	26.0	28.4	31.4	39.6	50.8	62.7	72.7	81.0	89.3	91.7	95.8
70°	19.5	21.3	24.2	30.2	36.7	44.9	53.2	58.0	63.9	68.0	69.2
72.5°	12.4	13.0	16.0	19.5	24.8	30.2	35.5	39.6	43.2	45.5	46.7
75°	7.1	10.6	10.6	14.2	17.7	20.1	23.7	26.6	28.4	30.2	30.2
77.5°	4.7	6.5	7.1	8.9	10.6	13.6	16.6	18.3	20.1	20.7	20.7
80°	4.1	4.7	4.7	6.5	7.7	10.1	11.8	12.4	13.6	14.2	15.4
82.5°	1.8	2.4	2.9	4.7	5.3	5.3	7.1	7.7	8.9	9.5	9.5
85°	0.6	1.2	1.2	1.8	2.9	3.6	4.1	4.7	5.3	5.3	5.9
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.4	2.4	2.4	3.6	3.6
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: P244952

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1200.4	1201.0	1198.7	1198.1	1196.9	1197.5	1198.7
5°	1178.6	1179.1	1176.8	1174.4	1174.4	1173.8	1174.4
7.5°	1157.9	1158.5	1154.9	1153.7	1151.4	1152.0	1152.0
10°	1137.2	1137.2	1131.9	1131.2	1129.5	1128.9	1128.9
12.5°	1117.1	1115.3	1111.1	1108.8	1110.0	1106.4	1106.4
15°	1099.3	1096.4	1091.0	1089.3	1086.3	1085.1	1085.1
17.5°	1081.0	1078.6	1073.9	1070.3	1066.8	1066.2	1066.8
20°	1063.2	1060.9	1055.0	1052.6	1049.7	1049.7	1048.5
22.5°	1045.5	1043.1	1037.8	1036.1	1031.9	1031.9	1032.5
25°	1027.2	1025.4	1019.5	1018.3	1017.7	1015.3	1016.5
27.5°	1002.3	1001.1	996.4	994.6	992.3	991.7	992.9
30°	956.8	955.0	951.5	949.7	945.6	946.2	947.3
32.5°	900.0	897.7	892.9	891.2	887.6	886.4	887.0
35°	829.1	827.3	823.2	823.2	819.6	818.4	819.6
37.5°	756.9	758.7	756.9	758.7	756.9	756.3	756.9
40°	688.9	695.4	696.6	703.1	700.8	704.3	703.7
42.5°	623.9	634.5	638.7	644.0	642.8	645.2	646.9
45°	558.2	567.1	571.2	574.8	575.4	576.6	577.2
47.5°	496.1	503.2	503.8	508.0	507.4	507.4	509.2
50°	438.2	442.9	444.1	447.1	444.7	443.5	444.1
52.5°	384.4	389.1	387.9	389.1	386.2	385.0	385.6
55°	329.4	331.7	331.7	331.7	328.2	328.2	328.2
57.5°	273.2	273.8	272.6	273.2	272.6	269.1	268.5
60°	221.8	221.8	221.2	221.8	220.0	218.2	218.2
62.5°	173.3	174.4	176.8	174.4	173.3	174.4	172.7
65°	129.5	131.9	131.3	132.5	131.9	131.9	130.7
67.5°	97.6	98.2	98.7	99.4	99.4	99.4	99.4
70°	71.6	73.3	72.7	72.7	72.7	72.7	76.3
72.5°	47.9	50.3	49.7	50.8	50.8	52.0	50.8
75°	32.5	34.9	33.7	35.5	34.9	33.7	36.7
77.5°	21.9	23.1	23.7	24.2	23.7	23.1	23.7
80°	15.4	16.6	16.0	16.6	16.6	16.6	17.2
82.5°	9.5	11.2	10.6	11.2	10.6	11.2	11.2
85°	6.5	7.1	5.9	7.1	6.5	6.5	7.7
87.5°	4.1	3.6	3.6	4.1	3.6	4.1	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)