

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: P244520

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244520
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

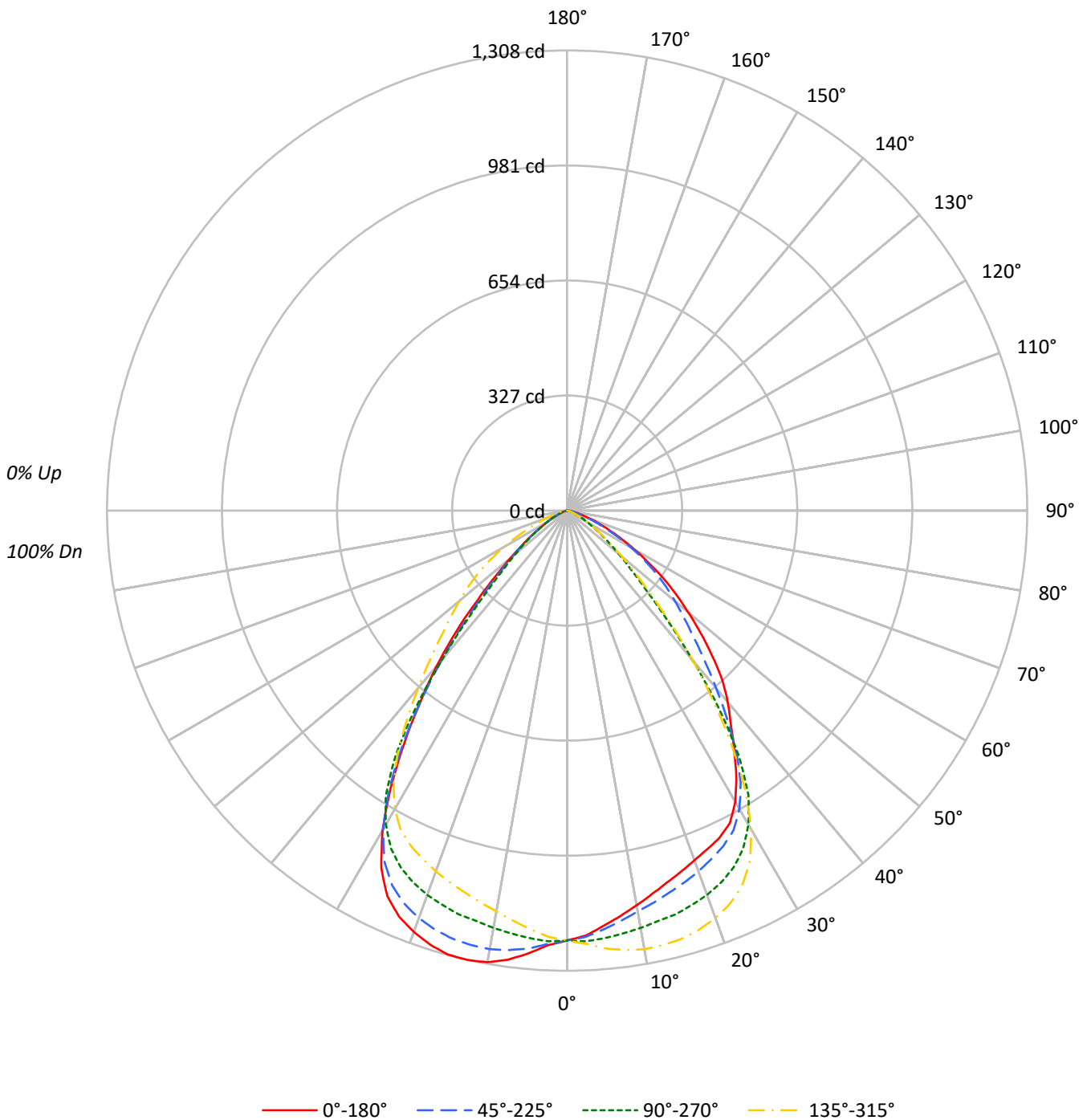
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

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°	37676	37676	37676	37676
5°	36674	37764	39111	37764
10°	35658	37715	40815	37715
15°	34947	37939	41709	37939
20°	34709	38154	41817	38154
25°	34892	38080	41142	38080
30°	34029	36686	37344	36686
35°	31124	32001	30364	32001
40°	28576	22260	23247	22260
45°	25394	13580	15712	13580
50°	21492	9072	10074	9072
55°	17800	6188	6543	6188
60°	13574	4120	4157	4120
65°	9617	2568	2349	2568
70°	6942	1722	1560	1722
75°	4408	858	715	858
80°	3072	639	533	639
85°	2760	0	212	0



TEST NUMBER: P244520

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	5.7
10°-20°	336.8	16.4
20°-30°	509.9	24.8
30°-40°	511.1	24.8
40°-50°	320.9	15.6
50°-60°	171.0	8.3
60°-70°	70.3	3.4
70°-80°	18.6	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°	963.0	46.8
0°-40°	1474.0	71.6
0°-60°	1965.9	95.5
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1222	1222	1222	1222	1222	
5°	1185	1220	1264	1220	1185	112
15°	1095	1188	1306	1188	1095	310
25°	1026	1119	1209	1119	1026	470
35°	827	850	807	850	827	518
45°	582	311	360	311	582	448
55°	331	115	122	115	331	295
65°	132	35	32	35	132	137
75°	37	7	6	7	37	42
85°	8	0	1	0	8	9
90°	0	0	0	0	0	



TEST NUMBER: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1209.2	1208.0	1207.5	1208.7	1209.2	1211.6	1211.0	1212.2	1212.2	1212.8	1214.0
5°	1184.8	1184.2	1184.8	1184.8	1187.2	1189.6	1189.0	1190.8	1191.9	1194.9	1196.1
7.5°	1162.1	1162.1	1161.5	1163.9	1165.1	1168.7	1168.1	1171.1	1172.9	1175.8	1180.0
10°	1138.8	1138.8	1139.4	1141.2	1141.8	1147.2	1147.2	1151.4	1153.8	1156.7	1162.1
12.5°	1116.2	1116.2	1119.8	1118.6	1120.9	1125.1	1126.9	1131.1	1134.7	1140.6	1146.0
15°	1094.7	1094.7	1095.9	1098.9	1100.7	1106.0	1109.0	1113.8	1118.0	1123.9	1131.7
17.5°	1076.2	1075.6	1076.2	1079.8	1083.4	1088.1	1090.5	1096.5	1100.7	1108.4	1115.6
20°	1057.7	1058.9	1058.9	1061.9	1064.3	1070.2	1072.6	1079.2	1084.0	1091.1	1099.5
22.5°	1041.6	1041.0	1041.0	1045.2	1047.0	1052.3	1054.7	1060.7	1066.1	1072.0	1079.8
25°	1025.5	1024.3	1026.7	1027.3	1028.5	1034.4	1036.2	1040.4	1045.8	1051.2	1058.9
27.5°	1001.6	1000.5	1001.0	1003.4	1005.2	1010.0	1011.2	1015.4	1019.5	1024.3	1030.9
30°	955.7	954.5	953.9	958.1	959.9	963.4	965.2	972.4	973.6	979.0	983.7
32.5°	894.8	894.3	895.5	899.0	900.8	905.6	908.0	912.2	915.1	918.1	922.9
35°	826.8	825.6	826.8	830.4	830.4	834.6	836.4	838.2	837.6	838.2	837.0
37.5°	763.6	763.0	763.6	765.4	763.6	765.4	763.6	760.0	753.5	746.3	739.1
40°	709.9	710.5	706.9	709.3	702.7	701.6	695.0	686.0	672.9	658.6	638.3
42.5°	652.7	650.9	648.5	649.7	644.3	640.1	629.4	618.1	601.3	577.5	553.0
45°	582.3	581.7	580.5	579.9	576.3	572.1	563.1	550.0	531.5	507.1	477.8
47.5°	513.6	511.9	511.9	512.4	508.3	507.7	500.5	489.2	473.1	449.2	418.8
50°	448.0	447.4	448.6	451.0	448.0	446.8	442.1	434.3	420.0	399.7	371.1
52.5°	389.0	388.4	389.6	392.5	391.3	392.5	387.8	381.8	372.3	352.6	327.5
55°	331.1	331.1	331.1	334.7	334.7	334.7	332.3	328.7	319.8	305.4	282.2
57.5°	270.8	271.4	275.0	275.6	275.0	276.2	275.6	272.0	266.1	255.9	238.0
60°	220.1	220.1	221.9	223.7	223.1	223.7	223.7	221.9	216.0	207.6	193.3
62.5°	174.2	176.0	174.8	176.0	178.4	176.0	174.8	173.6	169.4	164.1	152.1
65°	131.8	133.0	133.0	133.6	132.4	133.0	130.7	128.9	126.5	120.5	112.8
67.5°	100.2	100.2	100.2	100.2	99.6	99.0	98.4	96.6	92.5	90.1	81.7
70°	77.0	73.4	73.4	73.4	73.4	74.0	72.2	69.8	68.6	64.4	58.5
72.5°	51.3	52.5	51.3	51.3	50.1	50.7	48.3	47.1	45.9	43.6	40.0
75°	37.0	34.0	35.2	35.8	34.0	35.2	32.8	30.4	30.4	28.6	26.8
77.5°	23.9	23.3	23.9	24.5	23.9	23.3	22.1	20.9	20.9	20.3	18.5
80°	17.3	16.7	16.7	16.7	16.1	16.7	15.5	15.5	14.3	13.7	12.5
82.5°	11.3	11.3	10.7	11.3	10.7	11.3	9.6	9.6	9.6	8.9	7.8
85°	7.8	6.6	6.6	7.2	6.0	7.2	6.6	6.0	5.4	5.4	4.8
87.5°	3.6	4.2	3.6	4.2	3.6	3.6	4.2	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



TEST NUMBER: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1215.8	1216.4	1216.4	1218.8	1220.0	1220.6	1220.6	1225.4	1223.6	1224.8	1225.9
5°	1198.5	1202.1	1203.3	1203.3	1209.8	1212.2	1214.6	1220.0	1220.6	1224.2	1228.3
7.5°	1181.8	1186.0	1188.4	1193.7	1197.9	1202.1	1209.2	1212.8	1216.4	1221.2	1226.5
10°	1165.7	1170.5	1175.2	1179.4	1186.0	1191.3	1196.1	1204.5	1208.7	1215.2	1222.4
12.5°	1150.2	1156.7	1160.9	1168.1	1175.2	1180.0	1187.2	1194.9	1201.5	1208.0	1216.4
15°	1136.5	1144.2	1149.0	1156.7	1164.5	1171.1	1178.8	1188.4	1193.1	1200.9	1208.7
17.5°	1121.5	1129.9	1135.9	1143.0	1152.6	1159.7	1166.3	1175.8	1181.8	1190.1	1199.1
20°	1106.0	1114.4	1121.5	1128.7	1138.3	1145.4	1153.2	1162.7	1169.3	1177.6	1184.8
22.5°	1087.6	1095.3	1103.0	1111.4	1120.9	1126.9	1135.9	1144.2	1151.4	1159.1	1166.3
25°	1063.7	1073.2	1079.2	1086.9	1094.7	1101.3	1110.8	1119.2	1125.1	1132.3	1138.8
27.5°	1035.6	1042.8	1047.6	1054.1	1061.9	1067.9	1075.0	1083.4	1089.3	1095.9	1100.7
30°	987.9	994.5	998.7	1003.4	1011.2	1016.6	1022.5	1030.3	1034.4	1039.2	1043.4
32.5°	925.3	930.6	933.0	936.6	942.0	947.3	952.1	958.7	960.5	963.4	963.4
35°	834.6	835.8	835.2	836.4	838.8	841.8	845.9	850.1	852.5	852.5	850.7
37.5°	728.4	721.3	713.5	707.5	705.7	704.5	706.9	708.7	711.1	712.3	709.3
40°	618.1	601.9	584.6	569.1	558.4	553.6	551.8	553.0	553.0	557.2	557.2
42.5°	523.2	498.1	472.5	449.2	433.7	421.8	416.4	416.4	417.0	420.0	421.8
45°	444.4	412.8	383.0	357.4	335.9	320.3	313.2	311.4	310.8	312.0	316.2
47.5°	384.2	351.4	320.3	288.7	266.1	250.6	244.0	241.6	239.2	241.6	242.2
50°	337.1	303.1	270.3	238.6	214.8	201.0	192.7	189.1	188.5	188.5	189.7
52.5°	294.1	262.5	229.7	197.5	172.4	159.3	151.5	149.7	147.4	149.7	149.7
55°	253.5	221.9	189.7	159.3	138.4	124.7	117.5	115.1	113.9	115.7	115.7
57.5°	209.4	182.5	152.7	125.3	104.4	94.9	89.5	86.5	85.9	87.1	85.9
60°	171.8	149.1	123.5	98.4	82.3	72.2	68.0	66.8	65.6	66.8	66.8
62.5°	136.0	116.9	96.0	77.0	63.2	56.1	51.3	51.3	50.7	50.7	51.3
65°	100.8	85.9	71.0	54.9	44.2	38.8	35.2	35.2	34.6	35.2	34.6
67.5°	73.4	63.2	51.3	40.0	31.6	28.6	26.2	24.5	25.7	24.5	23.9
70°	53.7	45.3	37.0	30.4	24.5	21.5	19.7	19.1	17.9	17.9	17.9
72.5°	35.8	30.4	25.0	19.7	16.1	13.1	12.5	11.3	10.1	10.7	11.9
75°	23.9	20.3	17.9	14.3	10.7	10.7	7.2	7.2	6.0	7.2	5.4
77.5°	16.7	13.7	10.7	8.9	7.2	6.6	4.8	4.8	4.2	4.2	4.2
80°	11.9	10.1	7.8	6.6	4.8	4.8	4.2	3.6	3.0	3.0	3.6
82.5°	7.2	5.4	5.4	4.8	3.0	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.2	3.6	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



TEST NUMBER: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1228.9	1228.3	1229.5	1229.5	1233.1	1232.5	1234.3	1234.3	1233.1	1233.7	1236.1
5°	1233.1	1234.9	1238.5	1241.5	1246.8	1249.2	1252.2	1255.2	1255.8	1257.6	1259.4
7.5°	1233.1	1239.1	1243.3	1248.6	1255.8	1260.0	1266.5	1271.9	1274.3	1277.2	1280.8
10°	1230.7	1236.7	1244.4	1250.4	1259.4	1265.9	1272.5	1280.8	1284.4	1289.2	1294.0
12.5°	1225.9	1232.5	1240.8	1248.6	1258.7	1264.7	1273.1	1280.8	1286.2	1292.8	1298.1
15°	1218.8	1226.5	1234.3	1242.1	1252.8	1260.0	1267.7	1276.7	1282.0	1289.2	1294.0
17.5°	1207.5	1215.8	1223.0	1230.1	1240.3	1248.6	1255.8	1264.1	1269.5	1275.5	1282.0
20°	1193.7	1201.5	1209.2	1215.2	1225.4	1232.5	1240.3	1248.0	1252.2	1253.4	1263.5
22.5°	1176.4	1181.8	1187.8	1197.3	1203.3	1209.8	1217.0	1224.2	1228.3	1234.9	1238.5
25°	1147.8	1153.2	1159.7	1163.9	1171.1	1176.4	1183.6	1191.3	1193.7	1198.5	1202.1
27.5°	1107.8	1110.8	1113.8	1117.4	1121.5	1124.5	1128.7	1132.3	1134.7	1137.1	1139.4
30°	1044.6	1044.6	1044.6	1042.2	1044.0	1045.8	1046.4	1045.8	1045.8	1045.2	1045.2
32.5°	961.1	956.3	950.9	946.2	944.4	942.0	940.8	939.0	936.0	934.2	934.8
35°	848.3	837.6	831.0	825.1	820.3	816.7	814.9	813.1	812.5	810.2	807.7
37.5°	707.5	699.8	695.0	691.4	687.3	683.7	684.3	684.9	686.6	685.5	686.0
40°	558.4	556.6	558.4	554.2	553.0	554.2	557.2	561.4	563.8	566.1	570.3
42.5°	424.8	427.7	431.9	431.9	433.7	436.1	439.7	446.2	449.8	454.0	458.8
45°	319.8	323.3	328.7	330.5	331.7	334.7	338.9	344.2	346.6	350.2	354.4
47.5°	246.4	248.8	251.7	254.7	257.7	258.9	263.1	263.1	266.1	268.5	269.6
50°	192.1	194.5	196.9	198.7	199.9	201.6	202.8	204.6	205.2	206.4	207.0
52.5°	150.3	153.3	153.3	154.5	156.3	158.1	157.5	158.1	158.7	158.7	160.5
55°	117.5	117.5	119.3	119.3	120.5	119.9	120.5	120.5	120.5	120.5	121.1
57.5°	87.7	88.3	90.1	88.9	88.3	89.5	88.3	89.5	88.9	90.1	88.3
60°	67.4	67.4	68.0	68.0	68.6	68.6	68.6	68.0	68.0	67.4	67.4
62.5°	50.7	51.3	51.9	51.3	51.3	51.3	50.7	50.7	50.1	49.5	49.5
65°	34.0	33.4	34.6	33.4	34.0	34.0	33.4	34.0	32.2	32.8	32.2
67.5°	24.5	23.9	23.3	23.9	23.3	22.7	22.7	23.3	23.9	22.1	22.1
70°	16.1	16.7	16.1	16.7	17.3	17.3	16.7	16.1	16.7	15.5	16.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.7	10.7	10.7	9.6	9.6	8.9
75°	4.8	6.6	5.4	4.8	6.6	6.6	6.0	6.0	5.4	5.4	5.4
77.5°	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.6	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: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1235.5	1234.9	1235.5	1236.1	1235.5	1234.9	1235.5	1236.1	1233.7	1233.1	1234.3
5°	1261.7	1261.7	1262.9	1263.5	1262.9	1261.7	1261.7	1259.4	1257.6	1255.8	1255.2
7.5°	1284.4	1285.6	1286.8	1287.4	1286.8	1285.6	1284.4	1280.8	1277.2	1274.3	1271.9
10°	1298.1	1299.9	1302.3	1303.5	1302.3	1299.9	1298.1	1294.0	1289.2	1284.4	1280.8
12.5°	1304.1	1305.9	1308.9	1308.3	1308.9	1305.9	1304.1	1298.1	1292.8	1286.2	1280.8
15°	1299.9	1302.3	1305.3	1306.5	1305.3	1302.3	1299.9	1294.0	1289.2	1282.0	1276.7
17.5°	1286.8	1290.4	1292.2	1294.0	1292.2	1290.4	1286.8	1282.0	1275.5	1269.5	1264.1
20°	1268.9	1271.3	1273.7	1274.3	1273.7	1271.3	1268.9	1263.5	1253.4	1252.2	1248.0
22.5°	1243.3	1245.0	1250.4	1248.6	1250.4	1245.0	1243.3	1238.5	1234.9	1228.3	1224.2
25°	1206.3	1208.0	1208.7	1209.2	1208.7	1208.0	1206.3	1202.1	1198.5	1193.7	1191.3
27.5°	1142.4	1142.4	1143.6	1144.2	1143.6	1142.4	1142.4	1139.4	1137.1	1134.7	1132.3
30°	1045.8	1045.8	1045.8	1048.8	1045.8	1045.8	1045.8	1045.2	1045.2	1045.8	1045.8
32.5°	934.2	933.0	931.8	933.0	931.8	933.0	934.2	934.8	934.2	936.0	939.0
35°	807.7	807.2	808.9	806.6	808.9	807.2	807.7	807.7	810.2	812.5	813.1
37.5°	686.6	685.5	687.8	685.5	687.8	685.5	686.6	686.0	685.5	686.6	684.9
40°	571.5	572.7	572.7	577.5	572.7	572.7	571.5	570.3	566.1	563.8	561.4
42.5°	461.1	464.7	463.5	467.1	463.5	464.7	461.1	458.8	454.0	449.8	446.2
45°	356.7	359.1	359.1	360.3	359.1	359.1	356.7	354.4	350.2	346.6	344.2
47.5°	273.8	273.8	273.8	274.4	273.8	273.8	273.8	269.6	268.5	266.1	263.1
50°	208.2	208.8	209.4	210.0	209.4	208.8	208.2	207.0	206.4	205.2	204.6
52.5°	159.9	160.5	159.3	160.5	159.3	160.5	159.9	160.5	158.7	158.7	158.1
55°	121.1	120.5	121.1	121.7	121.1	120.5	121.1	121.1	120.5	120.5	120.5
57.5°	88.9	87.7	87.7	87.7	87.7	87.7	88.9	88.3	90.1	88.9	89.5
60°	66.2	66.8	66.8	67.4	66.8	66.8	66.2	67.4	67.4	68.0	68.0
62.5°	48.9	50.7	49.5	50.7	49.5	50.7	48.9	49.5	49.5	50.1	50.7
65°	31.6	31.6	31.6	32.2	31.6	31.6	31.6	32.2	32.8	32.2	34.0
67.5°	21.5	22.1	23.3	22.7	23.3	22.1	21.5	22.1	22.1	23.9	23.3
70°	17.3	15.5	15.5	17.3	15.5	15.5	17.3	16.1	15.5	16.7	16.1
72.5°	10.1	8.9	10.1	10.1	10.1	8.9	10.1	8.9	9.6	9.6	10.7
75°	5.4	4.8	4.2	6.0	4.2	4.8	5.4	5.4	5.4	5.4	6.0
77.5°	3.6	3.0	4.2	4.2	4.2	3.0	3.6	3.0	3.6	3.0	3.6
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: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1234.3	1232.5	1233.1	1229.5	1229.5	1228.3	1228.9	1225.9	1224.8	1223.6	1225.4
5°	1252.2	1249.2	1246.8	1241.5	1238.5	1234.9	1233.1	1228.3	1224.2	1220.6	1220.0
7.5°	1266.5	1260.0	1255.8	1248.6	1243.3	1239.1	1233.1	1226.5	1221.2	1216.4	1212.8
10°	1272.5	1265.9	1259.4	1250.4	1244.4	1236.7	1230.7	1222.4	1215.2	1208.7	1204.5
12.5°	1273.1	1264.7	1258.7	1248.6	1240.8	1232.5	1225.9	1216.4	1208.0	1201.5	1194.9
15°	1267.7	1260.0	1252.8	1242.1	1234.3	1226.5	1218.8	1208.7	1200.9	1193.1	1188.4
17.5°	1255.8	1248.6	1240.3	1230.1	1223.0	1215.8	1207.5	1199.1	1190.1	1181.8	1175.8
20°	1240.3	1232.5	1225.4	1215.2	1209.2	1201.5	1193.7	1184.8	1177.6	1169.3	1162.7
22.5°	1217.0	1209.8	1203.3	1197.3	1187.8	1181.8	1176.4	1166.3	1159.1	1151.4	1144.2
25°	1183.6	1176.4	1171.1	1163.9	1159.7	1153.2	1147.8	1138.8	1132.3	1125.1	1119.2
27.5°	1128.7	1124.5	1121.5	1117.4	1113.8	1110.8	1107.8	1100.7	1095.9	1089.3	1083.4
30°	1046.4	1045.8	1044.0	1042.2	1044.6	1044.6	1044.6	1043.4	1039.2	1034.4	1030.3
32.5°	940.8	942.0	944.4	946.2	950.9	956.3	961.1	963.4	963.4	960.5	958.7
35°	814.9	816.7	820.3	825.1	831.0	837.6	848.3	850.7	852.5	852.5	850.1
37.5°	684.3	683.7	687.3	691.4	695.0	699.8	707.5	709.3	712.3	711.1	708.7
40°	557.2	554.2	553.0	554.2	558.4	556.6	558.4	557.2	557.2	553.0	553.0
42.5°	439.7	436.1	433.7	431.9	431.9	427.7	424.8	421.8	420.0	417.0	416.4
45°	338.9	334.7	331.7	330.5	328.7	323.3	319.8	316.2	312.0	310.8	311.4
47.5°	263.1	258.9	257.7	254.7	251.7	248.8	246.4	242.2	241.6	239.2	241.6
50°	202.8	201.6	199.9	198.7	196.9	194.5	192.1	189.7	188.5	188.5	189.1
52.5°	157.5	158.1	156.3	154.5	153.3	153.3	150.3	149.7	149.7	147.4	149.7
55°	120.5	119.9	120.5	119.3	119.3	117.5	117.5	115.7	115.7	113.9	115.1
57.5°	88.3	89.5	88.3	88.9	90.1	88.3	87.7	85.9	87.1	85.9	86.5
60°	68.6	68.6	68.6	68.0	68.0	67.4	67.4	66.8	66.8	65.6	66.8
62.5°	50.7	51.3	51.3	51.3	51.9	51.3	50.7	51.3	50.7	50.7	51.3
65°	33.4	34.0	34.0	33.4	34.6	33.4	34.0	34.6	35.2	34.6	35.2
67.5°	22.7	22.7	23.3	23.9	23.3	23.9	24.5	23.9	24.5	25.7	24.5
70°	16.7	17.3	17.3	16.7	16.1	16.7	16.1	17.9	17.9	17.9	19.1
72.5°	10.7	10.7	10.1	10.1	10.1	10.1	10.1	11.9	10.7	10.1	11.3
75°	6.0	6.6	6.6	4.8	5.4	6.6	4.8	5.4	7.2	6.0	7.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.2	4.2	4.2	4.8
80°	3.0	2.4	2.4	1.8	2.4	2.4	2.4	3.6	3.0	3.0	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: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1220.6	1220.6	1220.0	1218.8	1216.4	1216.4	1215.8	1214.0	1212.8	1212.2	1212.2
5°	1214.6	1212.2	1209.8	1203.3	1203.3	1202.1	1198.5	1196.1	1194.9	1191.9	1190.8
7.5°	1209.2	1202.1	1197.9	1193.7	1188.4	1186.0	1181.8	1180.0	1175.8	1172.9	1171.1
10°	1196.1	1191.3	1186.0	1179.4	1175.2	1170.5	1165.7	1162.1	1156.7	1153.8	1151.4
12.5°	1187.2	1180.0	1175.2	1168.1	1160.9	1156.7	1150.2	1146.0	1140.6	1134.7	1131.1
15°	1178.8	1171.1	1164.5	1156.7	1149.0	1144.2	1136.5	1131.7	1123.9	1118.0	1113.8
17.5°	1166.3	1159.7	1152.6	1143.0	1135.9	1129.9	1121.5	1115.6	1108.4	1100.7	1096.5
20°	1153.2	1145.4	1138.3	1128.7	1121.5	1114.4	1106.0	1099.5	1091.1	1084.0	1079.2
22.5°	1135.9	1126.9	1120.9	1111.4	1103.0	1095.3	1087.6	1079.8	1072.0	1066.1	1060.7
25°	1110.8	1101.3	1094.7	1086.9	1079.2	1073.2	1063.7	1058.9	1051.2	1045.8	1040.4
27.5°	1075.0	1067.9	1061.9	1054.1	1047.6	1042.8	1035.6	1030.9	1024.3	1019.5	1015.4
30°	1022.5	1016.6	1011.2	1003.4	998.7	994.5	987.9	983.7	979.0	973.6	972.4
32.5°	952.1	947.3	942.0	936.6	933.0	930.6	925.3	922.9	918.1	915.1	912.2
35°	845.9	841.8	838.8	836.4	835.2	835.8	834.6	837.0	838.2	837.6	838.2
37.5°	706.9	704.5	705.7	707.5	713.5	721.3	728.4	739.1	746.3	753.5	760.0
40°	551.8	553.6	558.4	569.1	584.6	601.9	618.1	638.3	658.6	672.9	686.0
42.5°	416.4	421.8	433.7	449.2	472.5	498.1	523.2	553.0	577.5	601.3	618.1
45°	313.2	320.3	335.9	357.4	383.0	412.8	444.4	477.8	507.1	531.5	550.0
47.5°	244.0	250.6	266.1	288.7	320.3	351.4	384.2	418.8	449.2	473.1	489.2
50°	192.7	201.0	214.8	238.6	270.3	303.1	337.1	371.1	399.7	420.0	434.3
52.5°	151.5	159.3	172.4	197.5	229.7	262.5	294.1	327.5	352.6	372.3	381.8
55°	117.5	124.7	138.4	159.3	189.7	221.9	253.5	282.2	305.4	319.8	328.7
57.5°	89.5	94.9	104.4	125.3	152.7	182.5	209.4	238.0	255.9	266.1	272.0
60°	68.0	72.2	82.3	98.4	123.5	149.1	171.8	193.3	207.6	216.0	221.9
62.5°	51.3	56.1	63.2	77.0	96.0	116.9	136.0	152.1	164.1	169.4	173.6
65°	35.2	38.8	44.2	54.9	71.0	85.9	100.8	112.8	120.5	126.5	128.9
67.5°	26.2	28.6	31.6	40.0	51.3	63.2	73.4	81.7	90.1	92.5	96.6
70°	19.7	21.5	24.5	30.4	37.0	45.3	53.7	58.5	64.4	68.6	69.8
72.5°	12.5	13.1	16.1	19.7	25.0	30.4	35.8	40.0	43.6	45.9	47.1
75°	7.2	10.7	10.7	14.3	17.9	20.3	23.9	26.8	28.6	30.4	30.4
77.5°	4.8	6.6	7.2	8.9	10.7	13.7	16.7	18.5	20.3	20.9	20.9
80°	4.2	4.8	4.8	6.6	7.8	10.1	11.9	12.5	13.7	14.3	15.5
82.5°	1.8	2.4	3.0	4.8	5.4	5.4	7.2	7.8	8.9	9.6	9.6
85°	0.6	1.2	1.2	1.8	3.0	3.6	4.2	4.8	5.4	5.4	6.0
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: P244520

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1211.0	1211.6	1209.2	1208.7	1207.5	1208.0	1209.2
5°	1189.0	1189.6	1187.2	1184.8	1184.8	1184.2	1184.8
7.5°	1168.1	1168.7	1165.1	1163.9	1161.5	1162.1	1162.1
10°	1147.2	1147.2	1141.8	1141.2	1139.4	1138.8	1138.8
12.5°	1126.9	1125.1	1120.9	1118.6	1119.8	1116.2	1116.2
15°	1109.0	1106.0	1100.7	1098.9	1095.9	1094.7	1094.7
17.5°	1090.5	1088.1	1083.4	1079.8	1076.2	1075.6	1076.2
20°	1072.6	1070.2	1064.3	1061.9	1058.9	1058.9	1057.7
22.5°	1054.7	1052.3	1047.0	1045.2	1041.0	1041.0	1041.6
25°	1036.2	1034.4	1028.5	1027.3	1026.7	1024.3	1025.5
27.5°	1011.2	1010.0	1005.2	1003.4	1001.0	1000.5	1001.6
30°	965.2	963.4	959.9	958.1	953.9	954.5	955.7
32.5°	908.0	905.6	900.8	899.0	895.5	894.3	894.8
35°	836.4	834.6	830.4	830.4	826.8	825.6	826.8
37.5°	763.6	765.4	763.6	765.4	763.6	763.0	763.6
40°	695.0	701.6	702.7	709.3	706.9	710.5	709.9
42.5°	629.4	640.1	644.3	649.7	648.5	650.9	652.7
45°	563.1	572.1	576.3	579.9	580.5	581.7	582.3
47.5°	500.5	507.7	508.3	512.4	511.9	511.9	513.6
50°	442.1	446.8	448.0	451.0	448.6	447.4	448.0
52.5°	387.8	392.5	391.3	392.5	389.6	388.4	389.0
55°	332.3	334.7	334.7	334.7	331.1	331.1	331.1
57.5°	275.6	276.2	275.0	275.6	275.0	271.4	270.8
60°	223.7	223.7	223.1	223.7	221.9	220.1	220.1
62.5°	174.8	176.0	178.4	176.0	174.8	176.0	174.2
65°	130.7	133.0	132.4	133.6	133.0	133.0	131.8
67.5°	98.4	99.0	99.6	100.2	100.2	100.2	100.2
70°	72.2	74.0	73.4	73.4	73.4	73.4	77.0
72.5°	48.3	50.7	50.1	51.3	51.3	52.5	51.3
75°	32.8	35.2	34.0	35.8	35.2	34.0	37.0
77.5°	22.1	23.3	23.9	24.5	23.9	23.3	23.9
80°	15.5	16.7	16.1	16.7	16.7	16.7	17.3
82.5°	9.6	11.3	10.7	11.3	10.7	11.3	11.3
85°	6.6	7.2	6.0	7.2	6.6	6.6	7.8
87.5°	4.2	3.6	3.6	4.2	3.6	4.2	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)