

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: P244574

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244574
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2023.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

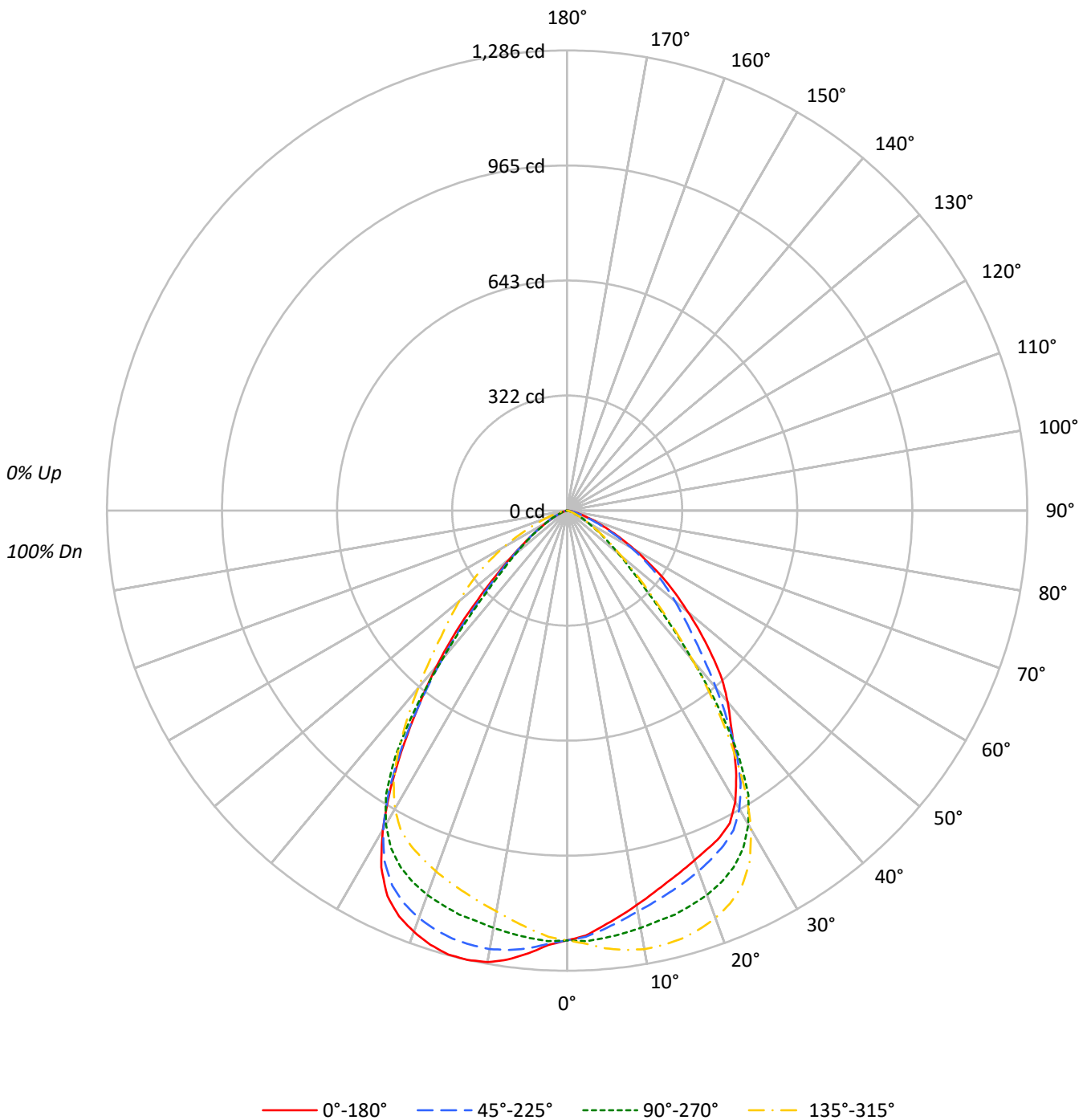
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37034	37034	37034	37034
5°	36049	37120	38445	37120
10°	35054	37073	40120	37073
15°	34354	37294	41000	37294
20°	34118	37505	41104	37505
25°	34300	37430	40444	37430
30°	33449	36059	36707	36059
35°	30597	31455	29844	31455
40°	28089	21882	22852	21882
45°	24962	13349	15446	13349
50°	21127	8918	9902	8918
55°	17499	6086	6430	6086
60°	13346	4052	4089	4052
65°	9456	2525	2313	2525
70°	6816	1695	1533	1695
75°	4337	834	703	834
80°	3019	622	515	622
85°	2689	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	5.7
10°-20°	331.0	16.4
20°-30°	501.2	24.8
30°-40°	502.4	24.8
40°-50°	315.5	15.6
50°-60°	168.1	8.3
60°-70°	69.1	3.4
70°-80°	18.3	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°	946.6	46.8
0°-40°	1448.9	71.6
0°-60°	1932.5	95.5
0°-90°	2023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1201	1201	1201	1201	1201	
5°	1165	1199	1242	1199	1165	110
15°	1076	1168	1284	1168	1076	304
25°	1008	1100	1189	1100	1008	462
35°	813	836	793	836	813	509
45°	572	306	354	306	572	440
55°	326	113	120	113	326	290
65°	130	35	32	35	130	134
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°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1188.7	1187.5	1186.9	1188.1	1188.7	1191.0	1190.4	1191.6	1191.6	1192.2	1193.4
5°	1164.6	1164.0	1164.6	1164.6	1167.0	1169.3	1168.7	1170.5	1171.7	1174.6	1175.8
7.5°	1142.4	1142.4	1141.8	1144.1	1145.3	1148.8	1148.2	1151.1	1152.9	1155.8	1159.9
10°	1119.5	1119.5	1120.1	1121.8	1122.4	1127.7	1127.7	1131.8	1134.1	1137.1	1142.4
12.5°	1097.2	1097.2	1100.7	1099.5	1101.9	1106.0	1107.7	1111.9	1115.4	1121.2	1126.5
15°	1076.1	1076.1	1077.3	1080.2	1081.9	1087.2	1090.2	1094.9	1099.0	1104.8	1112.5
17.5°	1057.9	1057.3	1057.9	1061.4	1065.0	1069.6	1072.0	1077.8	1081.9	1089.6	1096.6
20°	1039.7	1040.9	1040.9	1043.8	1046.2	1052.0	1054.4	1060.8	1065.5	1072.6	1080.8
22.5°	1023.9	1023.3	1023.3	1027.4	1029.2	1034.4	1036.8	1042.6	1047.9	1053.8	1061.4
25°	1008.1	1006.9	1009.2	1009.8	1011.0	1016.8	1018.6	1022.7	1028.0	1033.3	1040.9
27.5°	984.6	983.4	984.0	986.4	988.1	992.8	994.0	998.1	1002.2	1006.9	1013.3
30°	939.4	938.3	937.7	941.8	943.6	947.1	948.8	955.9	957.0	962.3	967.0
32.5°	879.6	879.0	880.2	883.7	885.5	890.2	892.5	896.6	899.6	902.5	907.2
35°	812.8	811.6	812.8	816.3	816.3	820.4	822.2	823.9	823.3	823.9	822.8
37.5°	750.6	750.0	750.6	752.4	750.6	752.4	750.6	747.1	740.7	733.6	726.6
40°	697.8	698.4	694.9	697.3	690.8	689.6	683.2	674.4	661.5	647.4	627.5
42.5°	641.6	639.8	637.5	638.6	633.3	629.2	618.7	607.5	591.1	567.7	543.6
45°	572.4	571.8	570.6	570.0	566.5	562.4	553.6	540.7	522.5	498.5	469.7
47.5°	504.9	503.1	503.1	503.7	499.6	499.0	492.0	480.9	465.0	441.6	411.7
50°	440.4	439.8	441.0	443.3	440.4	439.2	434.5	426.9	412.8	392.9	364.7
52.5°	382.3	381.8	382.9	385.9	384.7	385.9	381.2	375.3	365.9	346.6	321.9
55°	325.5	325.5	325.5	329.0	329.0	329.0	326.6	323.1	314.3	300.2	277.4
57.5°	266.2	266.8	270.3	270.9	270.3	271.5	270.9	267.4	261.6	251.6	234.0
60°	216.4	216.4	218.2	219.9	219.3	219.9	219.9	218.2	212.3	204.1	190.0
62.5°	171.2	173.0	171.8	173.0	175.3	173.0	171.8	170.7	166.5	161.3	149.5
65°	129.6	130.8	130.8	131.4	130.2	130.8	128.4	126.7	124.3	118.5	110.8
67.5°	98.5	98.5	98.5	98.5	97.9	97.3	96.8	95.0	90.9	88.6	80.3
70°	75.6	72.1	72.1	72.1	72.1	72.7	71.0	68.6	67.4	63.3	57.5
72.5°	50.4	51.6	50.4	50.4	49.3	49.8	47.5	46.3	45.2	42.8	39.3
75°	36.4	33.4	34.6	35.2	33.4	34.6	32.2	29.9	29.9	28.1	26.4
77.5°	23.5	22.9	23.5	24.0	23.5	22.9	21.7	20.5	20.5	19.9	18.2
80°	17.0	16.4	16.4	16.4	15.8	16.4	15.3	15.3	14.1	13.5	12.3
82.5°	11.2	11.2	10.5	11.2	10.5	11.2	9.4	9.4	9.4	8.8	7.6
85°	7.6	6.4	6.4	7.0	5.9	7.0	6.4	5.9	5.3	5.3	4.7
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°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1195.1	1195.7	1195.7	1198.1	1199.2	1199.8	1199.8	1204.5	1202.8	1203.9	1205.1
5°	1178.1	1181.6	1182.8	1182.8	1189.3	1191.6	1193.9	1199.2	1199.8	1203.3	1207.4
7.5°	1161.7	1165.8	1168.2	1173.4	1177.5	1181.6	1188.7	1192.2	1195.7	1200.4	1205.7
10°	1145.9	1150.6	1155.3	1159.4	1165.8	1171.1	1175.8	1184.0	1188.1	1194.5	1201.6
12.5°	1130.6	1137.1	1141.2	1148.2	1155.3	1159.9	1167.0	1174.6	1181.1	1187.5	1195.7
15°	1117.1	1124.8	1129.4	1137.1	1144.7	1151.1	1158.8	1168.2	1172.8	1180.5	1188.1
17.5°	1102.5	1110.7	1116.6	1123.6	1133.0	1140.0	1146.5	1155.8	1161.7	1169.9	1178.7
20°	1087.2	1095.4	1102.5	1109.5	1118.9	1125.9	1133.6	1142.9	1149.4	1157.6	1164.6
22.5°	1069.1	1076.7	1084.3	1092.5	1101.9	1107.7	1116.6	1124.8	1131.8	1139.4	1146.5
25°	1045.6	1055.0	1060.8	1068.5	1076.1	1082.5	1091.9	1100.1	1106.0	1113.0	1119.5
27.5°	1018.0	1025.1	1029.8	1036.2	1043.8	1049.7	1056.7	1065.0	1070.8	1077.3	1081.9
30°	971.1	977.6	981.7	986.4	994.0	999.3	1005.1	1012.7	1016.8	1021.6	1025.7
32.5°	909.5	914.8	917.2	920.7	926.0	931.2	935.9	942.4	944.1	947.1	947.1
35°	820.4	821.6	821.0	822.2	824.5	827.4	831.5	835.6	838.0	838.0	836.2
37.5°	716.0	709.0	701.4	695.5	693.7	692.6	694.9	696.7	699.0	700.2	697.3
40°	607.5	591.7	574.7	559.4	548.9	544.2	542.4	543.6	543.6	547.7	547.7
42.5°	514.3	489.7	464.5	441.6	426.3	414.6	409.3	409.3	409.9	412.8	414.6
45°	436.9	405.8	376.5	351.3	330.2	314.9	307.9	306.1	305.5	306.7	310.8
47.5°	377.7	345.4	314.9	283.8	261.6	246.3	239.9	237.5	235.1	237.5	238.1
50°	331.3	297.9	265.7	234.6	211.1	197.6	189.4	185.9	185.3	185.3	186.5
52.5°	289.1	258.0	225.8	194.1	169.5	156.6	149.0	147.2	144.8	147.2	147.2
55°	249.2	218.2	186.5	156.6	136.0	122.6	115.5	113.2	112.0	113.8	113.8
57.5°	205.8	179.4	150.1	123.2	102.6	93.2	88.0	85.0	84.4	85.6	84.4
60°	168.9	146.6	121.4	96.8	80.9	71.0	66.9	65.7	64.5	65.7	65.7
62.5°	133.7	114.9	94.4	75.6	62.2	55.1	50.4	50.4	49.8	49.8	50.4
65°	99.1	84.4	69.8	53.9	43.4	38.1	34.6	34.6	34.0	34.6	34.0
67.5°	72.1	62.2	50.4	39.3	31.1	28.1	25.8	24.0	25.2	24.0	23.5
70°	52.8	44.6	36.4	29.9	24.0	21.1	19.4	18.8	17.6	17.6	17.6
72.5°	35.2	29.9	24.6	19.4	15.8	12.9	12.3	11.2	10.0	10.5	11.7
75°	23.5	19.9	17.6	14.1	10.5	10.5	7.0	7.0	5.9	7.0	5.3
77.5°	16.4	13.5	10.5	8.8	7.0	6.4	4.7	4.7	4.1	4.1	4.1
80°	11.7	10.0	7.6	6.4	4.7	4.7	4.1	3.5	2.9	2.9	3.5
82.5°	7.0	5.3	5.3	4.7	2.9	2.3	1.8	2.3	1.2	1.2	1.2
85°	4.1	3.5	2.9	1.8	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°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1208.0	1207.4	1208.6	1208.6	1212.1	1211.5	1213.3	1213.3	1212.1	1212.7	1215.1
5°	1212.1	1213.9	1217.4	1220.3	1225.6	1228.0	1230.9	1233.8	1234.4	1236.2	1237.9
7.5°	1212.1	1218.0	1222.1	1227.4	1234.4	1238.5	1245.0	1250.3	1252.6	1255.5	1259.0
10°	1209.8	1215.6	1223.3	1229.1	1237.9	1244.4	1250.8	1259.0	1262.6	1267.2	1272.0
12.5°	1205.1	1211.5	1219.7	1227.4	1237.3	1243.2	1251.4	1259.0	1264.3	1270.8	1276.1
15°	1198.1	1205.7	1213.3	1220.9	1231.5	1238.5	1246.2	1254.9	1260.2	1267.2	1272.0
17.5°	1186.9	1195.1	1202.2	1209.2	1219.2	1227.4	1234.4	1242.6	1247.9	1253.8	1260.2
20°	1173.4	1181.1	1188.7	1194.5	1204.5	1211.5	1219.2	1226.8	1230.9	1232.1	1242.0
22.5°	1156.4	1161.7	1167.6	1176.9	1182.8	1189.3	1196.3	1203.3	1207.4	1213.9	1217.4
25°	1128.3	1133.6	1140.0	1144.1	1151.1	1156.4	1163.5	1171.1	1173.4	1178.1	1181.6
27.5°	1089.0	1091.9	1094.9	1098.4	1102.5	1105.4	1109.5	1113.0	1115.4	1117.7	1120.1
30°	1026.8	1026.8	1026.8	1024.5	1026.2	1028.0	1028.6	1028.0	1028.0	1027.4	1027.4
32.5°	944.7	940.0	934.8	930.1	928.3	926.0	924.8	923.0	920.1	918.3	918.9
35°	833.9	823.3	816.9	811.0	806.3	802.8	801.1	799.3	798.7	796.4	794.0
37.5°	695.5	687.9	683.2	679.7	675.6	672.0	672.6	673.2	675.0	673.8	674.4
40°	548.9	547.1	548.9	544.8	543.6	544.8	547.7	551.8	554.2	556.5	560.6
42.5°	417.5	420.5	424.6	424.6	426.3	428.7	432.2	438.7	442.2	446.3	451.0
45°	314.3	317.8	323.1	324.9	326.1	329.0	333.1	338.4	340.7	344.2	348.3
47.5°	242.2	244.5	247.5	250.4	253.3	254.5	258.6	258.6	261.6	263.9	265.1
50°	188.8	191.2	193.5	195.3	196.5	198.2	199.4	201.1	201.7	202.9	203.5
52.5°	147.8	150.7	150.7	151.9	153.6	155.4	154.8	155.4	156.0	156.0	157.7
55°	115.5	115.5	117.3	117.3	118.5	117.9	118.5	118.5	118.5	118.5	119.0
57.5°	86.2	86.8	88.6	87.4	86.8	88.0	86.8	88.0	87.4	88.6	86.8
60°	66.3	66.3	66.9	66.9	67.4	67.4	67.4	66.9	66.9	66.3	66.3
62.5°	49.8	50.4	51.0	50.4	50.4	50.4	49.8	49.8	49.3	48.7	48.7
65°	33.4	32.9	34.0	32.9	33.4	33.4	32.9	33.4	31.7	32.2	31.7
67.5°	24.0	23.5	22.9	23.5	22.9	22.3	22.3	22.9	23.5	21.7	21.7
70°	15.8	16.4	15.8	16.4	17.0	17.0	16.4	15.8	16.4	15.3	15.8
72.5°	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	9.4	9.4	8.8
75°	4.7	6.4	5.3	4.7	6.4	6.4	5.9	5.9	5.3	5.3	5.3
77.5°	4.7	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	1.8	2.3	2.3	2.9	2.3	2.3	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: P244574

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1214.5	1213.9	1214.5	1215.1	1214.5	1213.9	1214.5	1215.1	1212.7	1212.1	1213.3
5°	1240.3	1240.3	1241.4	1242.0	1241.4	1240.3	1240.3	1237.9	1236.2	1234.4	1233.8
7.5°	1262.6	1263.7	1264.9	1265.5	1264.9	1263.7	1262.6	1259.0	1255.5	1252.6	1250.3
10°	1276.1	1277.8	1280.2	1281.3	1280.2	1277.8	1276.1	1272.0	1267.2	1262.6	1259.0
12.5°	1281.9	1283.7	1286.6	1286.0	1286.6	1283.7	1281.9	1276.1	1270.8	1264.3	1259.0
15°	1277.8	1280.2	1283.1	1284.3	1283.1	1280.2	1277.8	1272.0	1267.2	1260.2	1254.9
17.5°	1264.9	1268.4	1270.2	1272.0	1270.2	1268.4	1264.9	1260.2	1253.8	1247.9	1242.6
20°	1247.3	1249.7	1252.0	1252.6	1252.0	1249.7	1247.3	1242.0	1232.1	1230.9	1226.8
22.5°	1222.1	1223.9	1229.1	1227.4	1229.1	1223.9	1222.1	1217.4	1213.9	1207.4	1203.3
25°	1185.7	1187.5	1188.1	1188.7	1188.1	1187.5	1185.7	1181.6	1178.1	1173.4	1171.1
27.5°	1123.0	1123.0	1124.2	1124.8	1124.2	1123.0	1123.0	1120.1	1117.7	1115.4	1113.0
30°	1028.0	1028.0	1028.0	1030.9	1028.0	1028.0	1028.0	1027.4	1027.4	1028.0	1028.0
32.5°	918.3	917.2	916.0	917.2	916.0	917.2	918.3	918.9	918.3	920.1	923.0
35°	794.0	793.4	795.2	792.8	795.2	793.4	794.0	794.0	796.4	798.7	799.3
37.5°	675.0	673.8	676.1	673.8	676.1	673.8	675.0	674.4	673.8	675.0	673.2
40°	561.8	563.0	563.0	567.7	563.0	563.0	561.8	560.6	556.5	554.2	551.8
42.5°	453.3	456.8	455.6	459.2	455.6	456.8	453.3	451.0	446.3	442.2	438.7
45°	350.7	353.0	353.0	354.2	353.0	353.0	350.7	348.3	344.2	340.7	338.4
47.5°	269.2	269.2	269.2	269.8	269.2	269.2	269.2	265.1	263.9	261.6	258.6
50°	204.7	205.2	205.8	206.4	205.8	205.2	204.7	203.5	202.9	201.7	201.1
52.5°	157.2	157.7	156.6	157.7	156.6	157.7	157.2	157.7	156.0	156.0	155.4
55°	119.0	118.5	119.0	119.6	119.0	118.5	119.0	119.0	118.5	118.5	118.5
57.5°	87.4	86.2	86.2	86.2	86.2	86.2	87.4	86.8	88.6	87.4	88.0
60°	65.1	65.7	65.7	66.3	65.7	65.7	65.1	66.3	66.3	66.9	66.9
62.5°	48.1	49.8	48.7	49.8	48.7	49.8	48.1	48.7	48.7	49.3	49.8
65°	31.1	31.1	31.1	31.7	31.1	31.1	31.1	31.7	32.2	31.7	33.4
67.5°	21.1	21.7	22.9	22.3	22.9	21.7	21.1	21.7	21.7	23.5	22.9
70°	17.0	15.3	15.3	17.0	15.3	15.3	17.0	15.8	15.3	16.4	15.8
72.5°	10.0	8.8	10.0	10.0	10.0	8.8	10.0	8.8	9.4	9.4	10.5
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°	3.5	2.9	4.1	4.1	4.1	2.9	3.5	2.9	3.5	2.9	3.5
80°	1.8	2.3	1.8	2.9	1.8	2.3	1.8	2.9	1.8	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: P244574

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1213.3	1211.5	1212.1	1208.6	1208.6	1207.4	1208.0	1205.1	1203.9	1202.8	1204.5
5°	1230.9	1228.0	1225.6	1220.3	1217.4	1213.9	1212.1	1207.4	1203.3	1199.8	1199.2
7.5°	1245.0	1238.5	1234.4	1227.4	1222.1	1218.0	1212.1	1205.7	1200.4	1195.7	1192.2
10°	1250.8	1244.4	1237.9	1229.1	1223.3	1215.6	1209.8	1201.6	1194.5	1188.1	1184.0
12.5°	1251.4	1243.2	1237.3	1227.4	1219.7	1211.5	1205.1	1195.7	1187.5	1181.1	1174.6
15°	1246.2	1238.5	1231.5	1220.9	1213.3	1205.7	1198.1	1188.1	1180.5	1172.8	1168.2
17.5°	1234.4	1227.4	1219.2	1209.2	1202.2	1195.1	1186.9	1178.7	1169.9	1161.7	1155.8
20°	1219.2	1211.5	1204.5	1194.5	1188.7	1181.1	1173.4	1164.6	1157.6	1149.4	1142.9
22.5°	1196.3	1189.3	1182.8	1176.9	1167.6	1161.7	1156.4	1146.5	1139.4	1131.8	1124.8
25°	1163.5	1156.4	1151.1	1144.1	1140.0	1133.6	1128.3	1119.5	1113.0	1106.0	1100.1
27.5°	1109.5	1105.4	1102.5	1098.4	1094.9	1091.9	1089.0	1081.9	1077.3	1070.8	1065.0
30°	1028.6	1028.0	1026.2	1024.5	1026.8	1026.8	1026.8	1025.7	1021.6	1016.8	1012.7
32.5°	924.8	926.0	928.3	930.1	934.8	940.0	944.7	947.1	947.1	944.1	942.4
35°	801.1	802.8	806.3	811.0	816.9	823.3	833.9	836.2	838.0	838.0	835.6
37.5°	672.6	672.0	675.6	679.7	683.2	687.9	695.5	697.3	700.2	699.0	696.7
40°	547.7	544.8	543.6	544.8	548.9	547.1	548.9	547.7	547.7	543.6	543.6
42.5°	432.2	428.7	426.3	424.6	424.6	420.5	417.5	414.6	412.8	409.9	409.3
45°	333.1	329.0	326.1	324.9	323.1	317.8	314.3	310.8	306.7	305.5	306.1
47.5°	258.6	254.5	253.3	250.4	247.5	244.5	242.2	238.1	237.5	235.1	237.5
50°	199.4	198.2	196.5	195.3	193.5	191.2	188.8	186.5	185.3	185.3	185.9
52.5°	154.8	155.4	153.6	151.9	150.7	150.7	147.8	147.2	147.2	144.8	147.2
55°	118.5	117.9	118.5	117.3	117.3	115.5	115.5	113.8	113.8	112.0	113.2
57.5°	86.8	88.0	86.8	87.4	88.6	86.8	86.2	84.4	85.6	84.4	85.0
60°	67.4	67.4	67.4	66.9	66.9	66.3	66.3	65.7	65.7	64.5	65.7
62.5°	49.8	50.4	50.4	50.4	51.0	50.4	49.8	50.4	49.8	49.8	50.4
65°	32.9	33.4	33.4	32.9	34.0	32.9	33.4	34.0	34.6	34.0	34.6
67.5°	22.3	22.3	22.9	23.5	22.9	23.5	24.0	23.5	24.0	25.2	24.0
70°	16.4	17.0	17.0	16.4	15.8	16.4	15.8	17.6	17.6	17.6	18.8
72.5°	10.5	10.5	10.0	10.0	10.0	10.0	10.0	11.7	10.5	10.0	11.2
75°	5.9	6.4	6.4	4.7	5.3	6.4	4.7	5.3	7.0	5.9	7.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.1	4.1	4.1	4.7
80°	2.9	2.3	2.3	1.8	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: P244574

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1199.8	1199.8	1199.2	1198.1	1195.7	1195.7	1195.1	1193.4	1192.2	1191.6	1191.6
5°	1193.9	1191.6	1189.3	1182.8	1182.8	1181.6	1178.1	1175.8	1174.6	1171.7	1170.5
7.5°	1188.7	1181.6	1177.5	1173.4	1168.2	1165.8	1161.7	1159.9	1155.8	1152.9	1151.1
10°	1175.8	1171.1	1165.8	1159.4	1155.3	1150.6	1145.9	1142.4	1137.1	1134.1	1131.8
12.5°	1167.0	1159.9	1155.3	1148.2	1141.2	1137.1	1130.6	1126.5	1121.2	1115.4	1111.9
15°	1158.8	1151.1	1144.7	1137.1	1129.4	1124.8	1117.1	1112.5	1104.8	1099.0	1094.9
17.5°	1146.5	1140.0	1133.0	1123.6	1116.6	1110.7	1102.5	1096.6	1089.6	1081.9	1077.8
20°	1133.6	1125.9	1118.9	1109.5	1102.5	1095.4	1087.2	1080.8	1072.6	1065.5	1060.8
22.5°	1116.6	1107.7	1101.9	1092.5	1084.3	1076.7	1069.1	1061.4	1053.8	1047.9	1042.6
25°	1091.9	1082.5	1076.1	1068.5	1060.8	1055.0	1045.6	1040.9	1033.3	1028.0	1022.7
27.5°	1056.7	1049.7	1043.8	1036.2	1029.8	1025.1	1018.0	1013.3	1006.9	1002.2	998.1
30°	1005.1	999.3	994.0	986.4	981.7	977.6	971.1	967.0	962.3	957.0	955.9
32.5°	935.9	931.2	926.0	920.7	917.2	914.8	909.5	907.2	902.5	899.6	896.6
35°	831.5	827.4	824.5	822.2	821.0	821.6	820.4	822.8	823.9	823.3	823.9
37.5°	694.9	692.6	693.7	695.5	701.4	709.0	716.0	726.6	733.6	740.7	747.1
40°	542.4	544.2	548.9	559.4	574.7	591.7	607.5	627.5	647.4	661.5	674.4
42.5°	409.3	414.6	426.3	441.6	464.5	489.7	514.3	543.6	567.7	591.1	607.5
45°	307.9	314.9	330.2	351.3	376.5	405.8	436.9	469.7	498.5	522.5	540.7
47.5°	239.9	246.3	261.6	283.8	314.9	345.4	377.7	411.7	441.6	465.0	480.9
50°	189.4	197.6	211.1	234.6	265.7	297.9	331.3	364.7	392.9	412.8	426.9
52.5°	149.0	156.6	169.5	194.1	225.8	258.0	289.1	321.9	346.6	365.9	375.3
55°	115.5	122.6	136.0	156.6	186.5	218.2	249.2	277.4	300.2	314.3	323.1
57.5°	88.0	93.2	102.6	123.2	150.1	179.4	205.8	234.0	251.6	261.6	267.4
60°	66.9	71.0	80.9	96.8	121.4	146.6	168.9	190.0	204.1	212.3	218.2
62.5°	50.4	55.1	62.2	75.6	94.4	114.9	133.7	149.5	161.3	166.5	170.7
65°	34.6	38.1	43.4	53.9	69.8	84.4	99.1	110.8	118.5	124.3	126.7
67.5°	25.8	28.1	31.1	39.3	50.4	62.2	72.1	80.3	88.6	90.9	95.0
70°	19.4	21.1	24.0	29.9	36.4	44.6	52.8	57.5	63.3	67.4	68.6
72.5°	12.3	12.9	15.8	19.4	24.6	29.9	35.2	39.3	42.8	45.2	46.3
75°	7.0	10.5	10.5	14.1	17.6	19.9	23.5	26.4	28.1	29.9	29.9
77.5°	4.7	6.4	7.0	8.8	10.5	13.5	16.4	18.2	19.9	20.5	20.5
80°	4.1	4.7	4.7	6.4	7.6	10.0	11.7	12.3	13.5	14.1	15.3
82.5°	1.8	2.3	2.9	4.7	5.3	5.3	7.0	7.6	8.8	9.4	9.4
85°	0.6	1.2	1.2	1.8	2.9	3.5	4.1	4.7	5.3	5.3	5.9
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.3	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: P244574

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1190.4	1191.0	1188.7	1188.1	1186.9	1187.5	1188.7
5°	1168.7	1169.3	1167.0	1164.6	1164.6	1164.0	1164.6
7.5°	1148.2	1148.8	1145.3	1144.1	1141.8	1142.4	1142.4
10°	1127.7	1127.7	1122.4	1121.8	1120.1	1119.5	1119.5
12.5°	1107.7	1106.0	1101.9	1099.5	1100.7	1097.2	1097.2
15°	1090.2	1087.2	1081.9	1080.2	1077.3	1076.1	1076.1
17.5°	1072.0	1069.6	1065.0	1061.4	1057.9	1057.3	1057.9
20°	1054.4	1052.0	1046.2	1043.8	1040.9	1040.9	1039.7
22.5°	1036.8	1034.4	1029.2	1027.4	1023.3	1023.3	1023.9
25°	1018.6	1016.8	1011.0	1009.8	1009.2	1006.9	1008.1
27.5°	994.0	992.8	988.1	986.4	984.0	983.4	984.6
30°	948.8	947.1	943.6	941.8	937.7	938.3	939.4
32.5°	892.5	890.2	885.5	883.7	880.2	879.0	879.6
35°	822.2	820.4	816.3	816.3	812.8	811.6	812.8
37.5°	750.6	752.4	750.6	752.4	750.6	750.0	750.6
40°	683.2	689.6	690.8	697.3	694.9	698.4	697.8
42.5°	618.7	629.2	633.3	638.6	637.5	639.8	641.6
45°	553.6	562.4	566.5	570.0	570.6	571.8	572.4
47.5°	492.0	499.0	499.6	503.7	503.1	503.1	504.9
50°	434.5	439.2	440.4	443.3	441.0	439.8	440.4
52.5°	381.2	385.9	384.7	385.9	382.9	381.8	382.3
55°	326.6	329.0	329.0	329.0	325.5	325.5	325.5
57.5°	270.9	271.5	270.3	270.9	270.3	266.8	266.2
60°	219.9	219.9	219.3	219.9	218.2	216.4	216.4
62.5°	171.8	173.0	175.3	173.0	171.8	173.0	171.2
65°	128.4	130.8	130.2	131.4	130.8	130.8	129.6
67.5°	96.8	97.3	97.9	98.5	98.5	98.5	98.5
70°	71.0	72.7	72.1	72.1	72.1	72.1	75.6
72.5°	47.5	49.8	49.3	50.4	50.4	51.6	50.4
75°	32.2	34.6	33.4	35.2	34.6	33.4	36.4
77.5°	21.7	22.9	23.5	24.0	23.5	22.9	23.5
80°	15.3	16.4	15.8	16.4	16.4	16.4	17.0
82.5°	9.4	11.2	10.5	11.2	10.5	11.2	11.2
85°	6.4	7.0	5.9	7.0	6.4	6.4	7.6
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)