

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: P244544

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244544  
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 EC8B20850 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

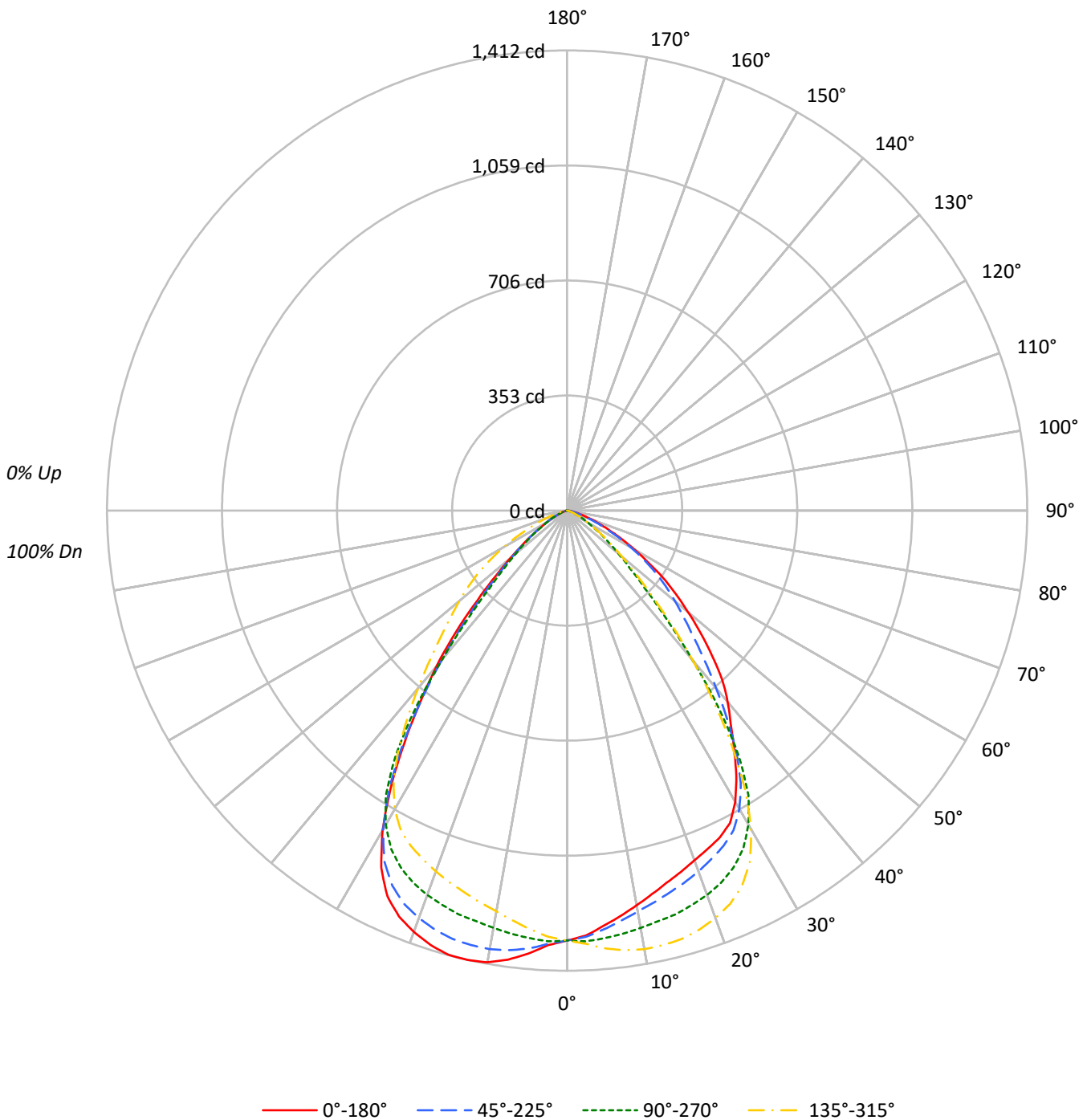
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	40676	40676	40676	40676
5°	39596	40773	42228	40773
10°	38501	40718	44069	40718
15°	37731	40962	45032	40962
20°	37475	41196	45147	41196
25°	37671	41111	44422	41111
30°	36739	39609	40321	39609
35°	33605	34550	32781	34550
40°	30855	24036	25098	24036
45°	27417	14661	16964	14661
50°	23204	9796	10875	9796
55°	19220	6683	7064	6683
60°	14660	4447	4490	4447
65°	10383	2773	2539	2773
70°	7492	1857	1686	1857
75°	4754	917	763	917
80°	3321	693	568	693
85°	2972	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	5.7
10°-20°	363.6	16.4
20°-30°	550.6	24.8
30°-40°	551.8	24.8
40°-50°	346.5	15.6
50°-60°	184.6	8.3
60°-70°	75.9	3.4
70°-80°	20.1	0.9
80°-90°	3.4	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°	1039.7	46.8
0°-40°	1591.5	71.6
0°-60°	2122.6	95.5
0°-90°	2222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1319	1319	1319	1319	1319	
5°	1279	1317	1364	1317	1279	121
15°	1182	1283	1411	1283	1182	334
25°	1107	1208	1306	1208	1107	508
35°	893	918	871	918	893	559
45°	629	336	389	336	629	484
55°	358	124	131	124	358	319
65°	142	38	35	38	142	148
75°	40	8	6	8	40	45
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°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1305.6	1304.3	1303.7	1305.0	1305.6	1308.2	1307.5	1308.8	1308.8	1309.5	1310.8
5°	1279.2	1278.5	1279.2	1279.2	1281.8	1284.3	1283.7	1285.6	1286.9	1290.2	1291.4
7.5°	1254.7	1254.7	1254.1	1256.6	1257.9	1261.8	1261.1	1264.4	1266.3	1269.5	1274.0
10°	1229.6	1229.6	1230.2	1232.2	1232.8	1238.6	1238.6	1243.1	1245.7	1248.9	1254.7
12.5°	1205.1	1205.1	1209.0	1207.7	1210.3	1214.8	1216.7	1221.2	1225.1	1231.5	1237.3
15°	1181.9	1181.9	1183.2	1186.4	1188.4	1194.2	1197.4	1202.6	1207.1	1213.5	1221.9
17.5°	1162.0	1161.3	1162.0	1165.8	1169.7	1174.9	1177.4	1183.9	1188.4	1196.8	1204.5
20°	1142.0	1143.3	1143.3	1146.5	1149.1	1155.5	1158.1	1165.2	1170.3	1178.1	1187.1
22.5°	1124.6	1124.0	1124.0	1128.5	1130.4	1136.2	1138.8	1145.2	1151.0	1157.5	1165.8
25°	1107.2	1105.9	1108.5	1109.2	1110.4	1116.9	1118.8	1123.3	1129.1	1134.9	1143.3
27.5°	1081.5	1080.2	1080.8	1083.4	1085.3	1090.5	1091.8	1096.3	1100.8	1105.9	1113.0
30°	1031.8	1030.6	1029.9	1034.4	1036.4	1040.2	1042.2	1049.9	1051.2	1057.0	1062.1
32.5°	966.2	965.5	966.8	970.7	972.6	977.8	980.3	984.8	988.0	991.3	996.4
35°	892.7	891.4	892.7	896.6	896.6	901.1	903.1	905.0	904.3	905.0	903.7
37.5°	824.5	823.8	824.5	826.4	824.5	826.4	824.5	820.6	813.5	805.8	798.0
40°	766.5	767.1	763.3	765.9	758.7	757.5	750.4	740.7	726.6	711.1	689.2
42.5°	704.7	702.7	700.2	701.4	695.6	691.1	679.5	667.3	649.3	623.5	597.1
45°	628.7	628.0	626.7	626.1	622.2	617.7	608.0	593.9	573.9	547.5	515.9
47.5°	554.6	552.6	552.6	553.3	548.8	548.1	540.4	528.2	510.8	485.0	452.2
50°	483.7	483.1	484.4	486.9	483.7	482.4	477.3	468.9	453.5	431.6	400.6
52.5°	420.0	419.3	420.6	423.8	422.5	423.8	418.7	412.2	401.9	380.7	353.6
55°	357.5	357.5	357.5	361.3	361.3	361.3	358.8	354.9	345.2	329.8	304.7
57.5°	292.4	293.1	296.9	297.6	296.9	298.2	297.6	293.7	287.3	276.3	257.0
60°	237.7	237.7	239.6	241.6	240.9	241.6	241.6	239.6	233.2	224.2	208.7
62.5°	188.1	190.0	188.7	190.0	192.6	190.0	188.7	187.4	182.9	177.1	164.2
65°	142.3	143.6	143.6	144.3	143.0	143.6	141.1	139.1	136.6	130.1	121.7
67.5°	108.2	108.2	108.2	108.2	107.6	106.9	106.3	104.4	99.8	97.3	88.2
70°	83.1	79.2	79.2	79.2	79.2	79.9	77.9	75.4	74.1	69.6	63.1
72.5°	55.4	56.7	55.4	55.4	54.1	54.7	52.2	50.9	49.6	47.0	43.2
75°	39.9	36.7	38.0	38.7	36.7	38.0	35.4	32.8	32.8	30.9	29.0
77.5°	25.8	25.1	25.8	26.4	25.8	25.1	23.8	22.5	22.5	21.9	20.0
80°	18.7	18.0	18.0	18.0	17.4	18.0	16.8	16.8	15.5	14.8	13.5
82.5°	12.2	12.2	11.6	12.2	11.6	12.2	10.3	10.3	10.3	9.7	8.4
85°	8.4	7.1	7.1	7.7	6.4	7.7	7.1	6.4	5.8	5.8	5.1
87.5°	3.9	4.5	3.9	4.5	3.9	3.9	4.5	3.9	3.9	2.6	2.6
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°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1312.7	1313.3	1313.3	1315.9	1317.2	1317.8	1317.8	1323.0	1321.1	1322.4	1323.6
5°	1294.0	1297.9	1299.2	1299.2	1306.2	1308.8	1311.4	1317.2	1317.8	1321.7	1326.2
7.5°	1276.0	1280.5	1283.1	1288.9	1293.4	1297.9	1305.6	1309.5	1313.3	1318.5	1324.3
10°	1258.6	1263.7	1268.9	1273.4	1280.5	1286.3	1291.4	1300.4	1305.0	1312.1	1319.8
12.5°	1241.8	1248.9	1253.4	1261.1	1268.9	1274.0	1281.8	1290.2	1297.2	1304.3	1313.3
15°	1227.0	1235.4	1240.5	1248.9	1257.3	1264.4	1272.8	1283.1	1288.2	1296.6	1305.0
17.5°	1210.9	1219.9	1226.4	1234.1	1244.4	1252.1	1259.2	1269.5	1276.0	1285.0	1294.7
20°	1194.2	1203.2	1210.9	1218.7	1229.0	1236.7	1245.1	1255.4	1262.4	1271.5	1279.2
22.5°	1174.2	1182.6	1190.9	1200.0	1210.3	1216.7	1226.4	1235.4	1243.1	1251.5	1259.2
25°	1148.4	1158.8	1165.2	1173.6	1181.9	1189.0	1199.3	1208.3	1214.8	1222.5	1229.6
27.5°	1118.2	1125.9	1131.1	1138.1	1146.5	1153.0	1160.7	1169.7	1176.2	1183.2	1188.4
30°	1066.6	1073.7	1078.2	1083.4	1091.8	1097.6	1104.0	1112.4	1116.9	1122.0	1126.5
32.5°	999.0	1004.8	1007.4	1011.2	1017.1	1022.8	1028.0	1035.1	1037.0	1040.2	1040.2
35°	901.1	902.4	901.8	903.1	905.6	908.8	913.3	917.8	920.4	920.4	918.5
37.5°	786.5	778.7	770.4	763.9	762.0	760.7	763.3	765.2	767.8	769.1	765.9
40°	667.3	649.9	631.2	614.5	602.9	597.7	595.8	597.1	597.1	601.6	601.6
42.5°	564.9	537.8	510.1	485.0	468.3	455.4	449.6	449.6	450.2	453.5	455.4
45°	479.9	445.7	413.5	385.8	362.6	345.9	338.2	336.2	335.6	336.9	341.4
47.5°	414.8	379.4	345.9	311.8	287.3	270.5	263.4	260.9	258.3	260.9	261.5
50°	363.9	327.2	291.8	257.6	231.9	217.1	208.0	204.2	203.5	203.5	204.8
52.5°	317.5	283.4	248.0	213.2	186.1	172.0	163.6	161.7	159.1	161.7	161.7
55°	273.7	239.6	204.8	172.0	149.4	134.6	126.9	124.3	123.0	125.0	125.0
57.5°	226.1	197.1	164.9	135.3	112.7	102.4	96.6	93.4	92.7	94.0	92.7
60°	185.5	161.0	133.3	106.3	88.9	77.9	73.4	72.1	70.8	72.1	72.1
62.5°	146.8	126.3	103.7	83.1	68.3	60.6	55.4	55.4	54.7	54.7	55.4
65°	108.9	92.7	76.6	59.3	47.7	41.9	38.0	38.0	37.4	38.0	37.4
67.5°	79.2	68.3	55.4	43.2	34.1	30.9	28.3	26.4	27.7	26.4	25.8
70°	58.0	48.9	39.9	32.8	26.4	23.2	21.3	20.6	19.3	19.3	19.3
72.5°	38.7	32.8	27.0	21.3	17.4	14.2	13.5	12.2	10.9	11.6	12.9
75°	25.8	21.9	19.3	15.5	11.6	11.6	7.7	7.7	6.4	7.7	5.8
77.5°	18.0	14.8	11.6	9.7	7.7	7.1	5.1	5.1	4.5	4.5	4.5
80°	12.9	10.9	8.4	7.1	5.1	5.1	4.5	3.9	3.2	3.2	3.9
82.5°	7.7	5.8	5.8	5.1	3.2	2.6	1.9	2.6	1.3	1.3	1.3
85°	4.5	3.9	3.2	1.9	1.3	1.3	0.6	0.0	0.6	0.6	0.0
87.5°	2.6	1.3	1.3	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1326.9	1326.2	1327.5	1327.5	1331.4	1330.7	1332.7	1332.7	1331.4	1332.0	1334.6
5°	1331.4	1333.3	1337.2	1340.4	1346.2	1348.8	1352.0	1355.2	1355.9	1357.8	1359.7
7.5°	1331.4	1337.8	1342.3	1348.1	1355.9	1360.4	1367.4	1373.2	1375.8	1379.0	1382.9
10°	1328.8	1335.2	1343.6	1350.0	1359.7	1366.8	1373.9	1382.9	1386.8	1391.9	1397.1
12.5°	1323.6	1330.7	1339.7	1348.1	1359.1	1365.5	1374.5	1382.9	1388.7	1395.8	1401.6
15°	1315.9	1324.3	1332.7	1341.0	1352.6	1360.4	1368.7	1378.4	1384.2	1391.9	1397.1
17.5°	1303.7	1312.7	1320.4	1328.1	1339.1	1348.1	1355.9	1364.9	1370.7	1377.1	1384.2
20°	1288.9	1297.2	1305.6	1312.1	1323.0	1330.7	1339.1	1347.5	1352.0	1353.3	1364.2
22.5°	1270.2	1276.0	1282.4	1292.7	1299.2	1306.2	1314.0	1321.7	1326.2	1333.3	1337.2
25°	1239.3	1245.1	1252.1	1256.6	1264.4	1270.2	1277.9	1286.3	1288.9	1294.0	1297.9
27.5°	1196.1	1199.3	1202.6	1206.4	1210.9	1214.1	1218.7	1222.5	1225.1	1227.7	1230.2
30°	1127.8	1127.8	1127.8	1125.2	1127.2	1129.1	1129.8	1129.1	1129.1	1128.5	1128.5
32.5°	1037.7	1032.5	1026.7	1021.6	1019.6	1017.1	1015.8	1013.8	1010.6	1008.7	1009.3
35°	915.9	904.3	897.2	890.8	885.7	881.8	879.9	877.9	877.3	874.7	872.1
37.5°	763.9	755.5	750.4	746.5	742.0	738.1	738.8	739.4	741.4	740.1	740.7
40°	602.9	600.9	602.9	598.4	597.1	598.4	601.6	606.1	608.7	611.3	615.8
42.5°	458.6	461.8	466.3	466.3	468.3	470.9	474.7	481.8	485.6	490.2	495.3
45°	345.2	349.1	354.9	356.8	358.1	361.3	365.9	371.6	374.2	378.1	382.6
47.5°	266.0	268.6	271.8	275.0	278.2	279.5	284.0	284.0	287.3	289.9	291.1
50°	207.4	210.0	212.5	214.5	215.8	217.7	219.0	220.9	221.6	222.9	223.5
52.5°	162.3	165.5	165.5	166.8	168.7	170.7	170.0	170.7	171.3	171.3	173.3
55°	126.9	126.9	128.8	128.8	130.1	129.5	130.1	130.1	130.1	130.1	130.8
57.5°	94.7	95.3	97.3	96.0	95.3	96.6	95.3	96.6	96.0	97.3	95.3
60°	72.8	72.8	73.4	73.4	74.1	74.1	74.1	73.4	73.4	72.8	72.8
62.5°	54.7	55.4	56.0	55.4	55.4	55.4	54.7	54.7	54.1	53.4	53.4
65°	36.7	36.1	37.4	36.1	36.7	36.7	36.1	36.7	34.8	35.4	34.8
67.5°	26.4	25.8	25.1	25.8	25.1	24.5	24.5	25.1	25.8	23.8	23.8
70°	17.4	18.0	17.4	18.0	18.7	18.7	18.0	17.4	18.0	16.8	17.4
72.5°	10.9	10.9	10.9	10.9	10.9	11.6	11.6	11.6	10.3	10.3	9.7
75°	5.1	7.1	5.8	5.1	7.1	7.1	6.4	6.4	5.8	5.8	5.8
77.5°	5.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.2	3.9	3.2
80°	2.6	2.6	2.6	1.9	2.6	2.6	3.2	2.6	2.6	1.9	3.2
82.5°	1.3	1.3	1.3	0.0	0.6	1.3	1.3	0.6	1.3	1.3	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: P244544

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1334.0	1333.3	1334.0	1334.6	1334.0	1333.3	1334.0	1334.6	1332.0	1331.4	1332.7
5°	1362.3	1362.3	1363.6	1364.2	1363.6	1362.3	1362.3	1359.7	1357.8	1355.9	1355.2
7.5°	1386.8	1388.1	1389.3	1390.0	1389.3	1388.1	1386.8	1382.9	1379.0	1375.8	1373.2
10°	1401.6	1403.5	1406.1	1407.4	1406.1	1403.5	1401.6	1397.1	1391.9	1386.8	1382.9
12.5°	1408.0	1410.0	1413.2	1412.5	1413.2	1410.0	1408.0	1401.6	1395.8	1388.7	1382.9
15°	1403.5	1406.1	1409.3	1410.6	1409.3	1406.1	1403.5	1397.1	1391.9	1384.2	1378.4
17.5°	1389.3	1393.2	1395.1	1397.1	1395.1	1393.2	1389.3	1384.2	1377.1	1370.7	1364.9
20°	1370.0	1372.6	1375.2	1375.8	1375.2	1372.6	1370.0	1364.2	1353.3	1352.0	1347.5
22.5°	1342.3	1344.3	1350.0	1348.1	1350.0	1344.3	1342.3	1337.2	1333.3	1326.2	1321.7
25°	1302.4	1304.3	1305.0	1305.6	1305.0	1304.3	1302.4	1297.9	1294.0	1288.9	1286.3
27.5°	1233.5	1233.5	1234.7	1235.4	1234.7	1233.5	1233.5	1230.2	1227.7	1225.1	1222.5
30°	1129.1	1129.1	1129.1	1132.4	1129.1	1129.1	1129.1	1128.5	1128.5	1129.1	1129.1
32.5°	1008.7	1007.4	1006.1	1007.4	1006.1	1007.4	1008.7	1009.3	1008.7	1010.6	1013.8
35°	872.1	871.5	873.4	870.8	873.4	871.5	872.1	872.1	874.7	877.3	877.9
37.5°	741.4	740.1	742.7	740.1	742.7	740.1	741.4	740.7	740.1	741.4	739.4
40°	617.1	618.3	618.3	623.5	618.3	618.3	617.1	615.8	611.3	608.7	606.1
42.5°	497.9	501.8	500.5	504.3	500.5	501.8	497.9	495.3	490.2	485.6	481.8
45°	385.2	387.8	387.8	389.0	387.8	387.8	385.2	382.6	378.1	374.2	371.6
47.5°	295.6	295.6	295.6	296.3	295.6	295.6	295.6	291.1	289.9	287.3	284.0
50°	224.8	225.4	226.1	226.7	226.1	225.4	224.8	223.5	222.9	221.6	220.9
52.5°	172.6	173.3	172.0	173.3	172.0	173.3	172.6	173.3	171.3	171.3	170.7
55°	130.8	130.1	130.8	131.4	130.8	130.1	130.8	130.8	130.1	130.1	130.1
57.5°	96.0	94.7	94.7	94.7	94.7	94.7	96.0	95.3	97.3	96.0	96.6
60°	71.5	72.1	72.1	72.8	72.1	72.1	71.5	72.8	72.8	73.4	73.4
62.5°	52.8	54.7	53.4	54.7	53.4	54.7	52.8	53.4	53.4	54.1	54.7
65°	34.1	34.1	34.1	34.8	34.1	34.1	34.1	34.8	35.4	34.8	36.7
67.5°	23.2	23.8	25.1	24.5	25.1	23.8	23.2	23.8	23.8	25.8	25.1
70°	18.7	16.8	16.8	18.7	16.8	16.8	18.7	17.4	16.8	18.0	17.4
72.5°	10.9	9.7	10.9	10.9	10.9	9.7	10.9	9.7	10.3	10.3	11.6
75°	5.8	5.1	4.5	6.4	4.5	5.1	5.8	5.8	5.8	5.8	6.4
77.5°	3.9	3.2	4.5	4.5	4.5	3.2	3.9	3.2	3.9	3.2	3.9
80°	1.9	2.6	1.9	3.2	1.9	2.6	1.9	3.2	1.9	2.6	2.6
82.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	1.3	1.3	0.6
85°	0.0	1.3	0.6	0.6	0.6	1.3	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: P244544

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1332.7	1330.7	1331.4	1327.5	1327.5	1326.2	1326.9	1323.6	1322.4	1321.1	1323.0
5°	1352.0	1348.8	1346.2	1340.4	1337.2	1333.3	1331.4	1326.2	1321.7	1317.8	1317.2
7.5°	1367.4	1360.4	1355.9	1348.1	1342.3	1337.8	1331.4	1324.3	1318.5	1313.3	1309.5
10°	1373.9	1366.8	1359.7	1350.0	1343.6	1335.2	1328.8	1319.8	1312.1	1305.0	1300.4
12.5°	1374.5	1365.5	1359.1	1348.1	1339.7	1330.7	1323.6	1313.3	1304.3	1297.2	1290.2
15°	1368.7	1360.4	1352.6	1341.0	1332.7	1324.3	1315.9	1305.0	1296.6	1288.2	1283.1
17.5°	1355.9	1348.1	1339.1	1328.1	1320.4	1312.7	1303.7	1294.7	1285.0	1276.0	1269.5
20°	1339.1	1330.7	1323.0	1312.1	1305.6	1297.2	1288.9	1279.2	1271.5	1262.4	1255.4
22.5°	1314.0	1306.2	1299.2	1292.7	1282.4	1276.0	1270.2	1259.2	1251.5	1243.1	1235.4
25°	1277.9	1270.2	1264.4	1256.6	1252.1	1245.1	1239.3	1229.6	1222.5	1214.8	1208.3
27.5°	1218.7	1214.1	1210.9	1206.4	1202.6	1199.3	1196.1	1188.4	1183.2	1176.2	1169.7
30°	1129.8	1129.1	1127.2	1125.2	1127.8	1127.8	1127.8	1126.5	1122.0	1116.9	1112.4
32.5°	1015.8	1017.1	1019.6	1021.6	1026.7	1032.5	1037.7	1040.2	1040.2	1037.0	1035.1
35°	879.9	881.8	885.7	890.8	897.2	904.3	915.9	918.5	920.4	920.4	917.8
37.5°	738.8	738.1	742.0	746.5	750.4	755.5	763.9	765.9	769.1	767.8	765.2
40°	601.6	598.4	597.1	598.4	602.9	600.9	602.9	601.6	601.6	597.1	597.1
42.5°	474.7	470.9	468.3	466.3	466.3	461.8	458.6	455.4	453.5	450.2	449.6
45°	365.9	361.3	358.1	356.8	354.9	349.1	345.2	341.4	336.9	335.6	336.2
47.5°	284.0	279.5	278.2	275.0	271.8	268.6	266.0	261.5	260.9	258.3	260.9
50°	219.0	217.7	215.8	214.5	212.5	210.0	207.4	204.8	203.5	203.5	204.2
52.5°	170.0	170.7	168.7	166.8	165.5	165.5	162.3	161.7	161.7	159.1	161.7
55°	130.1	129.5	130.1	128.8	128.8	126.9	126.9	125.0	125.0	123.0	124.3
57.5°	95.3	96.6	95.3	96.0	97.3	95.3	94.7	92.7	94.0	92.7	93.4
60°	74.1	74.1	74.1	73.4	73.4	72.8	72.8	72.1	72.1	70.8	72.1
62.5°	54.7	55.4	55.4	55.4	56.0	55.4	54.7	55.4	54.7	54.7	55.4
65°	36.1	36.7	36.7	36.1	37.4	36.1	36.7	37.4	38.0	37.4	38.0
67.5°	24.5	24.5	25.1	25.8	25.1	25.8	26.4	25.8	26.4	27.7	26.4
70°	18.0	18.7	18.7	18.0	17.4	18.0	17.4	19.3	19.3	19.3	20.6
72.5°	11.6	11.6	10.9	10.9	10.9	10.9	10.9	12.9	11.6	10.9	12.2
75°	6.4	7.1	7.1	5.1	5.8	7.1	5.1	5.8	7.7	6.4	7.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.1	4.5	4.5	4.5	5.1
80°	3.2	2.6	2.6	1.9	2.6	2.6	2.6	3.9	3.2	3.2	3.9
82.5°	1.3	1.3	0.6	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6
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	1.3	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: P244544

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1317.8	1317.8	1317.2	1315.9	1313.3	1313.3	1312.7	1310.8	1309.5	1308.8	1308.8
5°	1311.4	1308.8	1306.2	1299.2	1299.2	1297.9	1294.0	1291.4	1290.2	1286.9	1285.6
7.5°	1305.6	1297.9	1293.4	1288.9	1283.1	1280.5	1276.0	1274.0	1269.5	1266.3	1264.4
10°	1291.4	1286.3	1280.5	1273.4	1268.9	1263.7	1258.6	1254.7	1248.9	1245.7	1243.1
12.5°	1281.8	1274.0	1268.9	1261.1	1253.4	1248.9	1241.8	1237.3	1231.5	1225.1	1221.2
15°	1272.8	1264.4	1257.3	1248.9	1240.5	1235.4	1227.0	1221.9	1213.5	1207.1	1202.6
17.5°	1259.2	1252.1	1244.4	1234.1	1226.4	1219.9	1210.9	1204.5	1196.8	1188.4	1183.9
20°	1245.1	1236.7	1229.0	1218.7	1210.9	1203.2	1194.2	1187.1	1178.1	1170.3	1165.2
22.5°	1226.4	1216.7	1210.3	1200.0	1190.9	1182.6	1174.2	1165.8	1157.5	1151.0	1145.2
25°	1199.3	1189.0	1181.9	1173.6	1165.2	1158.8	1148.4	1143.3	1134.9	1129.1	1123.3
27.5°	1160.7	1153.0	1146.5	1138.1	1131.1	1125.9	1118.2	1113.0	1105.9	1100.8	1096.3
30°	1104.0	1097.6	1091.8	1083.4	1078.2	1073.7	1066.6	1062.1	1057.0	1051.2	1049.9
32.5°	1028.0	1022.8	1017.1	1011.2	1007.4	1004.8	999.0	996.4	991.3	988.0	984.8
35°	913.3	908.8	905.6	903.1	901.8	902.4	901.1	903.7	905.0	904.3	905.0
37.5°	763.3	760.7	762.0	763.9	770.4	778.7	786.5	798.0	805.8	813.5	820.6
40°	595.8	597.7	602.9	614.5	631.2	649.9	667.3	689.2	711.1	726.6	740.7
42.5°	449.6	455.4	468.3	485.0	510.1	537.8	564.9	597.1	623.5	649.3	667.3
45°	338.2	345.9	362.6	385.8	413.5	445.7	479.9	515.9	547.5	573.9	593.9
47.5°	263.4	270.5	287.3	311.8	345.9	379.4	414.8	452.2	485.0	510.8	528.2
50°	208.0	217.1	231.9	257.6	291.8	327.2	363.9	400.6	431.6	453.5	468.9
52.5°	163.6	172.0	186.1	213.2	248.0	283.4	317.5	353.6	380.7	401.9	412.2
55°	126.9	134.6	149.4	172.0	204.8	239.6	273.7	304.7	329.8	345.2	354.9
57.5°	96.6	102.4	112.7	135.3	164.9	197.1	226.1	257.0	276.3	287.3	293.7
60°	73.4	77.9	88.9	106.3	133.3	161.0	185.5	208.7	224.2	233.2	239.6
62.5°	55.4	60.6	68.3	83.1	103.7	126.3	146.8	164.2	177.1	182.9	187.4
65°	38.0	41.9	47.7	59.3	76.6	92.7	108.9	121.7	130.1	136.6	139.1
67.5°	28.3	30.9	34.1	43.2	55.4	68.3	79.2	88.2	97.3	99.8	104.4
70°	21.3	23.2	26.4	32.8	39.9	48.9	58.0	63.1	69.6	74.1	75.4
72.5°	13.5	14.2	17.4	21.3	27.0	32.8	38.7	43.2	47.0	49.6	50.9
75°	7.7	11.6	11.6	15.5	19.3	21.9	25.8	29.0	30.9	32.8	32.8
77.5°	5.1	7.1	7.7	9.7	11.6	14.8	18.0	20.0	21.9	22.5	22.5
80°	4.5	5.1	5.1	7.1	8.4	10.9	12.9	13.5	14.8	15.5	16.8
82.5°	1.9	2.6	3.2	5.1	5.8	5.8	7.7	8.4	9.7	10.3	10.3
85°	0.6	1.3	1.3	1.9	3.2	3.9	4.5	5.1	5.8	5.8	6.4
87.5°	0.6	0.6	0.0	0.6	1.3	1.3	2.6	2.6	2.6	3.9	3.9
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: P244544

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1307.5	1308.2	1305.6	1305.0	1303.7	1304.3	1305.6
5°	1283.7	1284.3	1281.8	1279.2	1279.2	1278.5	1279.2
7.5°	1261.1	1261.8	1257.9	1256.6	1254.1	1254.7	1254.7
10°	1238.6	1238.6	1232.8	1232.2	1230.2	1229.6	1229.6
12.5°	1216.7	1214.8	1210.3	1207.7	1209.0	1205.1	1205.1
15°	1197.4	1194.2	1188.4	1186.4	1183.2	1181.9	1181.9
17.5°	1177.4	1174.9	1169.7	1165.8	1162.0	1161.3	1162.0
20°	1158.1	1155.5	1149.1	1146.5	1143.3	1143.3	1142.0
22.5°	1138.8	1136.2	1130.4	1128.5	1124.0	1124.0	1124.6
25°	1118.8	1116.9	1110.4	1109.2	1108.5	1105.9	1107.2
27.5°	1091.8	1090.5	1085.3	1083.4	1080.8	1080.2	1081.5
30°	1042.2	1040.2	1036.4	1034.4	1029.9	1030.6	1031.8
32.5°	980.3	977.8	972.6	970.7	966.8	965.5	966.2
35°	903.1	901.1	896.6	896.6	892.7	891.4	892.7
37.5°	824.5	826.4	824.5	826.4	824.5	823.8	824.5
40°	750.4	757.5	758.7	765.9	763.3	767.1	766.5
42.5°	679.5	691.1	695.6	701.4	700.2	702.7	704.7
45°	608.0	617.7	622.2	626.1	626.7	628.0	628.7
47.5°	540.4	548.1	548.8	553.3	552.6	552.6	554.6
50°	477.3	482.4	483.7	486.9	484.4	483.1	483.7
52.5°	418.7	423.8	422.5	423.8	420.6	419.3	420.0
55°	358.8	361.3	361.3	361.3	357.5	357.5	357.5
57.5°	297.6	298.2	296.9	297.6	296.9	293.1	292.4
60°	241.6	241.6	240.9	241.6	239.6	237.7	237.7
62.5°	188.7	190.0	192.6	190.0	188.7	190.0	188.1
65°	141.1	143.6	143.0	144.3	143.6	143.6	142.3
67.5°	106.3	106.9	107.6	108.2	108.2	108.2	108.2
70°	77.9	79.9	79.2	79.2	79.2	79.2	83.1
72.5°	52.2	54.7	54.1	55.4	55.4	56.7	55.4
75°	35.4	38.0	36.7	38.7	38.0	36.7	39.9
77.5°	23.8	25.1	25.8	26.4	25.8	25.1	25.8
80°	16.8	18.0	17.4	18.0	18.0	18.0	18.7
82.5°	10.3	12.2	11.6	12.2	11.6	12.2	12.2
85°	7.1	7.7	6.4	7.7	7.1	7.1	8.4
87.5°	4.5	3.9	3.9	4.5	3.9	4.5	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)