

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: P245816

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245816
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1904.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

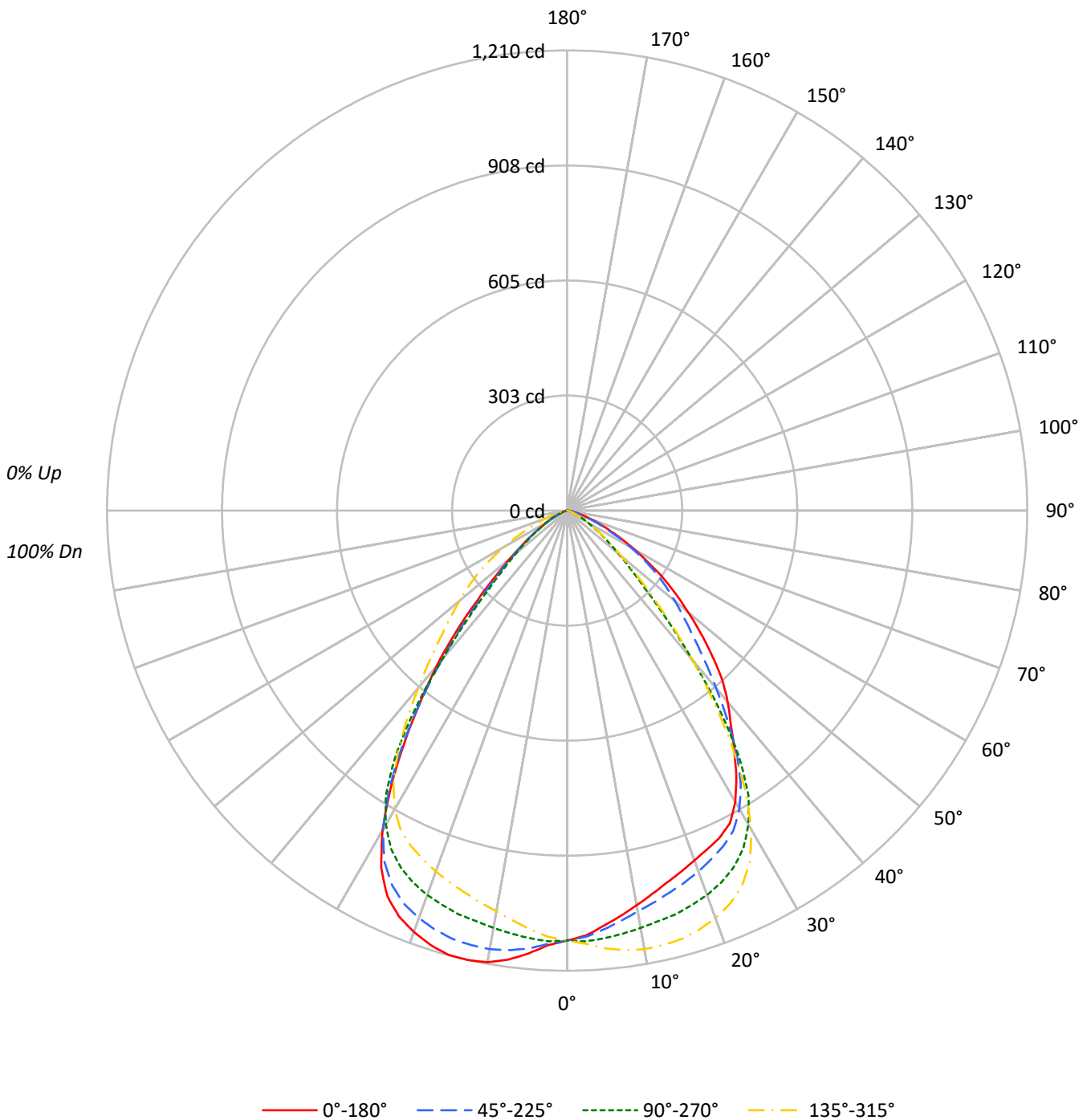
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34854	34854	34854	34854
5°	33929	34938	36185	34938
10°	32990	34891	37759	34891
15°	32333	35097	38587	35097
20°	32113	35299	38686	35299
25°	32282	35229	38066	35229
30°	31483	33940	34549	33940
35°	28798	29607	28090	29607
40°	26439	20594	21508	20594
45°	23492	12564	14539	12564
50°	19885	8390	9321	8390
55°	16467	5726	6054	5726
60°	12563	3811	3848	3811
65°	8902	2379	2174	2379
70°	6419	1596	1443	1596
75°	4075	786	655	786
80°	2841	586	479	586
85°	2547	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	5.7
10°-20°	311.6	16.4
20°-30°	471.8	24.8
30°-40°	472.8	24.8
40°-50°	296.9	15.6
50°-60°	158.2	8.3
60°-70°	65.1	3.4
70°-80°	17.2	0.9
80°-90°	2.9	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°	890.9	46.8
0°-40°	1363.7	71.6
0°-60°	1818.8	95.5
0°-90°	1904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1130	1130	1130	1130	1130	
5°	1096	1129	1169	1129	1096	103
15°	1013	1099	1209	1099	1013	286
25°	949	1035	1119	1035	949	435
35°	765	786	746	786	765	479
45°	539	288	333	288	539	414
55°	306	106	113	106	306	273
65°	122	33	30	33	122	127
75°	34	7	6	7	34	39
85°	7	0	0	0	7	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°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1118.8	1117.6	1117.1	1118.2	1118.8	1121.0	1120.4	1121.5	1121.5	1122.1	1123.2
5°	1096.1	1095.6	1096.1	1096.1	1098.3	1100.5	1100.0	1101.7	1102.7	1105.5	1106.6
7.5°	1075.2	1075.2	1074.6	1076.8	1077.9	1081.2	1080.7	1083.4	1085.1	1087.8	1091.7
10°	1053.6	1053.6	1054.2	1055.8	1056.4	1061.4	1061.4	1065.2	1067.4	1070.2	1075.2
12.5°	1032.7	1032.7	1036.0	1034.9	1037.1	1040.9	1042.6	1046.4	1049.8	1055.3	1060.3
15°	1012.8	1012.8	1013.9	1016.6	1018.3	1023.3	1026.0	1030.5	1034.3	1039.8	1047.0
17.5°	995.7	995.1	995.7	999.0	1002.3	1006.7	1008.9	1014.4	1018.3	1025.5	1032.1
20°	978.6	979.7	979.7	982.4	984.6	990.2	992.4	998.4	1002.9	1009.5	1017.2
22.5°	963.7	963.1	963.1	967.0	968.6	973.6	975.8	981.3	986.3	991.8	999.0
25°	948.8	947.6	949.9	950.4	951.5	957.0	958.7	962.6	967.5	972.5	979.7
27.5°	926.7	925.6	926.1	928.3	930.0	934.4	935.5	939.4	943.2	947.6	953.7
30°	884.2	883.1	882.5	886.4	888.1	891.4	893.0	899.6	900.7	905.7	910.1
32.5°	827.9	827.3	828.4	831.7	833.4	837.8	840.0	843.9	846.6	849.4	853.8
35°	765.0	763.9	765.0	768.3	768.3	772.2	773.8	775.4	774.9	775.4	774.4
37.5°	706.5	705.9	706.5	708.1	706.5	708.1	706.5	703.2	697.1	690.5	683.8
40°	656.8	657.3	654.0	656.2	650.2	649.1	643.0	634.7	622.6	609.3	590.6
42.5°	603.8	602.2	600.0	601.0	596.1	592.2	582.3	571.8	556.3	534.3	511.6
45°	538.7	538.1	537.0	536.5	533.2	529.3	521.0	508.9	491.8	469.1	442.1
47.5°	475.2	473.6	473.6	474.1	470.2	469.7	463.1	452.6	437.7	415.6	387.5
50°	414.5	413.9	415.1	417.3	414.5	413.4	409.0	401.8	388.6	369.8	343.3
52.5°	359.8	359.3	360.4	363.2	362.1	363.2	358.8	353.2	344.4	326.2	303.0
55°	306.3	306.3	306.3	309.6	309.6	309.6	307.4	304.1	295.8	282.6	261.1
57.5°	250.6	251.1	254.4	255.0	254.4	255.6	255.0	251.7	246.2	236.8	220.2
60°	203.7	203.7	205.3	207.0	206.4	207.0	207.0	205.3	199.8	192.1	178.8
62.5°	161.2	162.8	161.7	162.8	165.0	162.8	161.7	160.6	156.8	151.8	140.7
65°	122.0	123.1	123.1	123.6	122.5	123.1	120.9	119.2	117.0	111.5	104.3
67.5°	92.7	92.7	92.7	92.7	92.2	91.6	91.1	89.4	85.6	83.4	75.6
70°	71.2	67.9	67.9	67.9	67.9	68.4	66.8	64.6	63.5	59.6	54.1
72.5°	47.5	48.6	47.5	47.5	46.4	46.9	44.7	43.6	42.5	40.3	37.0
75°	34.2	31.5	32.6	33.1	31.5	32.6	30.4	28.1	28.1	26.5	24.8
77.5°	22.1	21.5	22.1	22.6	22.1	21.5	20.4	19.3	19.3	18.8	17.1
80°	16.0	15.4	15.4	15.4	14.9	15.4	14.4	14.4	13.2	12.7	11.6
82.5°	10.5	10.5	9.9	10.5	9.9	10.5	8.8	8.8	8.8	8.3	7.2
85°	7.2	6.1	6.1	6.6	5.5	6.6	6.1	5.5	5.0	5.0	4.4
87.5°	3.3	3.9	3.3	3.9	3.3	3.3	3.9	3.3	3.3	2.2	2.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1124.8	1125.4	1125.4	1127.6	1128.7	1129.2	1129.2	1133.7	1132.0	1133.1	1134.2
5°	1108.8	1112.1	1113.2	1113.2	1119.3	1121.5	1123.7	1128.7	1129.2	1132.5	1136.4
7.5°	1093.4	1097.2	1099.4	1104.4	1108.3	1112.1	1118.8	1122.1	1125.4	1129.8	1134.8
10°	1078.5	1082.9	1087.3	1091.2	1097.2	1102.2	1106.6	1114.3	1118.2	1124.3	1130.9
12.5°	1064.1	1070.2	1074.0	1080.7	1087.3	1091.7	1098.3	1105.5	1111.6	1117.6	1125.4
15°	1051.4	1058.6	1063.0	1070.2	1077.4	1083.4	1090.6	1099.4	1103.9	1111.0	1118.2
17.5°	1037.6	1045.4	1050.9	1057.5	1066.3	1072.9	1079.0	1087.8	1093.4	1101.1	1109.4
20°	1023.3	1031.0	1037.6	1044.2	1053.1	1059.7	1066.9	1075.7	1081.8	1089.5	1096.1
22.5°	1006.2	1013.3	1020.5	1028.2	1037.1	1042.6	1050.9	1058.6	1065.2	1072.4	1079.0
25°	984.1	992.9	998.4	1005.6	1012.8	1018.8	1027.7	1035.4	1040.9	1047.6	1053.6
27.5°	958.1	964.8	969.2	975.3	982.4	987.9	994.6	1002.3	1007.8	1013.9	1018.3
30°	914.0	920.1	923.9	928.3	935.5	940.5	946.0	953.2	957.0	961.5	965.3
32.5°	856.0	861.0	863.2	866.5	871.5	876.5	880.9	886.9	888.6	891.4	891.4
35°	772.2	773.2	772.7	773.8	776.0	778.8	782.6	786.5	788.7	788.7	787.1
37.5°	673.9	667.3	660.1	654.6	652.9	651.8	654.0	655.7	657.9	659.0	656.2
40°	571.8	556.9	540.9	526.5	516.6	512.2	510.5	511.6	511.6	515.5	515.5
42.5°	484.0	460.9	437.1	415.6	401.2	390.2	385.2	385.2	385.8	388.6	390.2
45°	411.2	381.9	354.3	330.6	310.7	296.4	289.8	288.1	287.6	288.7	292.5
47.5°	355.4	325.1	296.4	267.1	246.2	231.8	225.7	223.5	221.3	223.5	224.1
50°	311.8	280.4	250.0	220.8	198.7	186.0	178.3	174.9	174.4	174.4	175.5
52.5°	272.1	242.9	212.5	182.7	159.5	147.4	140.2	138.5	136.3	138.5	138.5
55°	234.6	205.3	175.5	147.4	128.0	115.4	108.7	106.5	105.4	107.1	107.1
57.5°	193.7	168.9	141.3	115.9	96.6	87.8	82.8	80.0	79.5	80.6	79.5
60°	159.0	138.0	114.2	91.1	76.2	66.8	62.9	61.8	60.7	61.8	61.8
62.5°	125.8	108.2	88.8	71.2	58.5	51.9	47.5	47.5	46.9	46.9	47.5
65°	93.3	79.5	65.7	50.8	40.8	35.9	32.6	32.6	32.0	32.6	32.0
67.5°	67.9	58.5	47.5	37.0	29.3	26.5	24.3	22.6	23.7	22.6	22.1
70°	49.7	41.9	34.2	28.1	22.6	19.9	18.2	17.7	16.6	16.6	16.6
72.5°	33.1	28.1	23.2	18.2	14.9	12.1	11.6	10.5	9.4	9.9	11.0
75°	22.1	18.8	16.6	13.2	9.9	9.9	6.6	6.6	5.5	6.6	5.0
77.5°	15.4	12.7	9.9	8.3	6.6	6.1	4.4	4.4	3.9	3.9	3.9
80°	11.0	9.4	7.2	6.1	4.4	4.4	3.9	3.3	2.7	2.7	3.3
82.5°	6.6	5.0	5.0	4.4	2.7	2.2	1.7	2.2	1.1	1.1	1.1
85°	3.9	3.3	2.7	1.7	1.1	1.1	0.5	0.0	0.5	0.5	0.0
87.5°	2.2	1.1	1.1	0.5	0.0	0.5	0.5	0.0	0.0	0.0	1.1
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°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1137.0	1136.4	1137.5	1137.5	1140.8	1140.3	1141.9	1141.9	1140.8	1141.4	1143.6
5°	1140.8	1142.5	1145.8	1148.6	1153.5	1155.7	1158.5	1161.3	1161.8	1163.5	1165.1
7.5°	1140.8	1146.4	1150.2	1155.2	1161.8	1165.7	1171.7	1176.7	1178.9	1181.7	1185.0
10°	1138.6	1144.1	1151.3	1156.8	1165.1	1171.2	1177.3	1185.0	1188.3	1192.7	1197.1
12.5°	1134.2	1140.3	1148.0	1155.2	1164.6	1170.1	1177.8	1185.0	1190.0	1196.0	1201.0
15°	1127.6	1134.8	1141.9	1149.1	1159.0	1165.7	1172.8	1181.1	1186.1	1192.7	1197.1
17.5°	1117.1	1124.8	1131.5	1138.1	1147.5	1155.2	1161.8	1169.5	1174.5	1180.0	1186.1
20°	1104.4	1111.6	1118.8	1124.3	1133.7	1140.3	1147.5	1154.6	1158.5	1159.6	1169.0
22.5°	1088.4	1093.4	1098.9	1107.7	1113.2	1119.3	1125.9	1132.5	1136.4	1142.5	1145.8
25°	1061.9	1066.9	1072.9	1076.8	1083.4	1088.4	1095.0	1102.2	1104.4	1108.8	1112.1
27.5°	1024.9	1027.7	1030.5	1033.7	1037.6	1040.4	1044.2	1047.6	1049.8	1052.0	1054.2
30°	966.4	966.4	966.4	964.2	965.9	967.5	968.1	967.5	967.5	967.0	967.0
32.5°	889.2	884.7	879.8	875.4	873.7	871.5	870.4	868.7	866.0	864.3	864.9
35°	784.8	774.9	768.8	763.3	758.9	755.6	753.9	752.3	751.7	749.5	747.3
37.5°	654.6	647.4	643.0	639.7	635.8	632.5	633.1	633.6	635.3	634.2	634.7
40°	516.6	514.9	516.6	512.7	511.6	512.7	515.5	519.4	521.6	523.8	527.6
42.5°	393.0	395.7	399.6	399.6	401.2	403.5	406.8	412.8	416.1	420.0	424.4
45°	295.8	299.1	304.1	305.8	306.9	309.6	313.5	318.5	320.7	324.0	327.8
47.5°	227.9	230.2	232.9	235.7	238.4	239.5	243.4	243.4	246.2	248.4	249.5
50°	177.7	179.9	182.1	183.8	184.9	186.6	187.6	189.3	189.9	191.0	191.5
52.5°	139.1	141.8	141.8	142.9	144.6	146.3	145.7	146.3	146.8	146.8	148.5
55°	108.7	108.7	110.4	110.4	111.5	110.9	111.5	111.5	111.5	111.5	112.0
57.5°	81.1	81.7	83.4	82.2	81.7	82.8	81.7	82.8	82.2	83.4	81.7
60°	62.4	62.4	62.9	62.9	63.5	63.5	63.5	62.9	62.9	62.4	62.4
62.5°	46.9	47.5	48.0	47.5	47.5	47.5	46.9	46.9	46.4	45.8	45.8
65°	31.5	30.9	32.0	30.9	31.5	31.5	30.9	31.5	29.8	30.4	29.8
67.5°	22.6	22.1	21.5	22.1	21.5	21.0	21.0	21.5	22.1	20.4	20.4
70°	14.9	15.4	14.9	15.4	16.0	16.0	15.4	14.9	15.4	14.4	14.9
72.5°	9.4	9.4	9.4	9.4	9.4	9.9	9.9	9.9	8.8	8.8	8.3
75°	4.4	6.1	5.0	4.4	6.1	6.1	5.5	5.5	5.0	5.0	5.0
77.5°	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.7	3.3	2.7
80°	2.2	2.2	2.2	1.7	2.2	2.2	2.7	2.2	2.2	1.7	2.7
82.5°	1.1	1.1	1.1	0.0	0.5	1.1	1.1	0.5	1.1	1.1	0.5
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: P245816

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1143.0	1142.5	1143.0	1143.6	1143.0	1142.5	1143.0	1143.6	1141.4	1140.8	1141.9
5°	1167.3	1167.3	1168.4	1169.0	1168.4	1167.3	1167.3	1165.1	1163.5	1161.8	1161.3
7.5°	1188.3	1189.4	1190.5	1191.0	1190.5	1189.4	1188.3	1185.0	1181.7	1178.9	1176.7
10°	1201.0	1202.7	1204.9	1205.9	1204.9	1202.7	1201.0	1197.1	1192.7	1188.3	1185.0
12.5°	1206.5	1208.2	1210.9	1210.4	1210.9	1208.2	1206.5	1201.0	1196.0	1190.0	1185.0
15°	1202.7	1204.9	1207.6	1208.7	1207.6	1204.9	1202.7	1197.1	1192.7	1186.1	1181.1
17.5°	1190.5	1193.8	1195.5	1197.1	1195.5	1193.8	1190.5	1186.1	1180.0	1174.5	1169.5
20°	1173.9	1176.2	1178.4	1178.9	1178.4	1176.2	1173.9	1169.0	1159.6	1158.5	1154.6
22.5°	1150.2	1151.9	1156.8	1155.2	1156.8	1151.9	1150.2	1145.8	1142.5	1136.4	1132.5
25°	1116.0	1117.6	1118.2	1118.8	1118.2	1117.6	1116.0	1112.1	1108.8	1104.4	1102.2
27.5°	1056.9	1056.9	1058.0	1058.6	1058.0	1056.9	1056.9	1054.2	1052.0	1049.8	1047.6
30°	967.5	967.5	967.5	970.3	967.5	967.5	967.5	967.0	967.0	967.5	967.5
32.5°	864.3	863.2	862.1	863.2	862.1	863.2	864.3	864.9	864.3	866.0	868.7
35°	747.3	746.8	748.4	746.2	748.4	746.8	747.3	747.3	749.5	751.7	752.3
37.5°	635.3	634.2	636.4	634.2	636.4	634.2	635.3	634.7	634.2	635.3	633.6
40°	528.8	529.8	529.8	534.3	529.8	529.8	528.8	527.6	523.8	521.6	519.4
42.5°	426.6	430.0	428.8	432.2	428.8	430.0	426.6	424.4	420.0	416.1	412.8
45°	330.0	332.3	332.3	333.4	332.3	332.3	330.0	327.8	324.0	320.7	318.5
47.5°	253.3	253.3	253.3	253.9	253.3	253.3	253.3	249.5	248.4	246.2	243.4
50°	192.6	193.2	193.7	194.3	193.7	193.2	192.6	191.5	191.0	189.9	189.3
52.5°	147.9	148.5	147.4	148.5	147.4	148.5	147.9	148.5	146.8	146.8	146.3
55°	112.0	111.5	112.0	112.6	112.0	111.5	112.0	112.0	111.5	111.5	111.5
57.5°	82.2	81.1	81.1	81.1	81.1	81.1	82.2	81.7	83.4	82.2	82.8
60°	61.3	61.8	61.8	62.4	61.8	61.8	61.3	62.4	62.4	62.9	62.9
62.5°	45.3	46.9	45.8	46.9	45.8	46.9	45.3	45.8	45.8	46.4	46.9
65°	29.3	29.3	29.3	29.8	29.3	29.3	29.3	29.8	30.4	29.8	31.5
67.5°	19.9	20.4	21.5	21.0	21.5	20.4	19.9	20.4	20.4	22.1	21.5
70°	16.0	14.4	14.4	16.0	14.4	14.4	16.0	14.9	14.4	15.4	14.9
72.5°	9.4	8.3	9.4	9.4	9.4	8.3	9.4	8.3	8.8	8.8	9.9
75°	5.0	4.4	3.9	5.5	3.9	4.4	5.0	5.0	5.0	5.0	5.5
77.5°	3.3	2.7	3.9	3.9	3.9	2.7	3.3	2.7	3.3	2.7	3.3
80°	1.7	2.2	1.7	2.7	1.7	2.2	1.7	2.7	1.7	2.2	2.2
82.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1	0.5
85°	0.0	1.1	0.5	0.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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: P245816

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1141.9	1140.3	1140.8	1137.5	1137.5	1136.4	1137.0	1134.2	1133.1	1132.0	1133.7
5°	1158.5	1155.7	1153.5	1148.6	1145.8	1142.5	1140.8	1136.4	1132.5	1129.2	1128.7
7.5°	1171.7	1165.7	1161.8	1155.2	1150.2	1146.4	1140.8	1134.8	1129.8	1125.4	1122.1
10°	1177.3	1171.2	1165.1	1156.8	1151.3	1144.1	1138.6	1130.9	1124.3	1118.2	1114.3
12.5°	1177.8	1170.1	1164.6	1155.2	1148.0	1140.3	1134.2	1125.4	1117.6	1111.6	1105.5
15°	1172.8	1165.7	1159.0	1149.1	1141.9	1134.8	1127.6	1118.2	1111.0	1103.9	1099.4
17.5°	1161.8	1155.2	1147.5	1138.1	1131.5	1124.8	1117.1	1109.4	1101.1	1093.4	1087.8
20°	1147.5	1140.3	1133.7	1124.3	1118.8	1111.6	1104.4	1096.1	1089.5	1081.8	1075.7
22.5°	1125.9	1119.3	1113.2	1107.7	1098.9	1093.4	1088.4	1079.0	1072.4	1065.2	1058.6
25°	1095.0	1088.4	1083.4	1076.8	1072.9	1066.9	1061.9	1053.6	1047.6	1040.9	1035.4
27.5°	1044.2	1040.4	1037.6	1033.7	1030.5	1027.7	1024.9	1018.3	1013.9	1007.8	1002.3
30°	968.1	967.5	965.9	964.2	966.4	966.4	966.4	965.3	961.5	957.0	953.2
32.5°	870.4	871.5	873.7	875.4	879.8	884.7	889.2	891.4	891.4	888.6	886.9
35°	753.9	755.6	758.9	763.3	768.8	774.9	784.8	787.1	788.7	788.7	786.5
37.5°	633.1	632.5	635.8	639.7	643.0	647.4	654.6	656.2	659.0	657.9	655.7
40°	515.5	512.7	511.6	512.7	516.6	514.9	516.6	515.5	515.5	511.6	511.6
42.5°	406.8	403.5	401.2	399.6	399.6	395.7	393.0	390.2	388.6	385.8	385.2
45°	313.5	309.6	306.9	305.8	304.1	299.1	295.8	292.5	288.7	287.6	288.1
47.5°	243.4	239.5	238.4	235.7	232.9	230.2	227.9	224.1	223.5	221.3	223.5
50°	187.6	186.6	184.9	183.8	182.1	179.9	177.7	175.5	174.4	174.4	174.9
52.5°	145.7	146.3	144.6	142.9	141.8	141.8	139.1	138.5	138.5	136.3	138.5
55°	111.5	110.9	111.5	110.4	110.4	108.7	108.7	107.1	107.1	105.4	106.5
57.5°	81.7	82.8	81.7	82.2	83.4	81.7	81.1	79.5	80.6	79.5	80.0
60°	63.5	63.5	63.5	62.9	62.9	62.4	62.4	61.8	61.8	60.7	61.8
62.5°	46.9	47.5	47.5	47.5	48.0	47.5	46.9	47.5	46.9	46.9	47.5
65°	30.9	31.5	31.5	30.9	32.0	30.9	31.5	32.0	32.6	32.0	32.6
67.5°	21.0	21.0	21.5	22.1	21.5	22.1	22.6	22.1	22.6	23.7	22.6
70°	15.4	16.0	16.0	15.4	14.9	15.4	14.9	16.6	16.6	16.6	17.7
72.5°	9.9	9.9	9.4	9.4	9.4	9.4	9.4	11.0	9.9	9.4	10.5
75°	5.5	6.1	6.1	4.4	5.0	6.1	4.4	5.0	6.6	5.5	6.6
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	3.9	3.9	3.9	4.4
80°	2.7	2.2	2.2	1.7	2.2	2.2	2.2	3.3	2.7	2.7	3.3
82.5°	1.1	1.1	0.5	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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: P245816

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1129.2	1129.2	1128.7	1127.6	1125.4	1125.4	1124.8	1123.2	1122.1	1121.5	1121.5
5°	1123.7	1121.5	1119.3	1113.2	1113.2	1112.1	1108.8	1106.6	1105.5	1102.7	1101.7
7.5°	1118.8	1112.1	1108.3	1104.4	1099.4	1097.2	1093.4	1091.7	1087.8	1085.1	1083.4
10°	1106.6	1102.2	1097.2	1091.2	1087.3	1082.9	1078.5	1075.2	1070.2	1067.4	1065.2
12.5°	1098.3	1091.7	1087.3	1080.7	1074.0	1070.2	1064.1	1060.3	1055.3	1049.8	1046.4
15°	1090.6	1083.4	1077.4	1070.2	1063.0	1058.6	1051.4	1047.0	1039.8	1034.3	1030.5
17.5°	1079.0	1072.9	1066.3	1057.5	1050.9	1045.4	1037.6	1032.1	1025.5	1018.3	1014.4
20°	1066.9	1059.7	1053.1	1044.2	1037.6	1031.0	1023.3	1017.2	1009.5	1002.9	998.4
22.5°	1050.9	1042.6	1037.1	1028.2	1020.5	1013.3	1006.2	999.0	991.8	986.3	981.3
25°	1027.7	1018.8	1012.8	1005.6	998.4	992.9	984.1	979.7	972.5	967.5	962.6
27.5°	994.6	987.9	982.4	975.3	969.2	964.8	958.1	953.7	947.6	943.2	939.4
30°	946.0	940.5	935.5	928.3	923.9	920.1	914.0	910.1	905.7	900.7	899.6
32.5°	880.9	876.5	871.5	866.5	863.2	861.0	856.0	853.8	849.4	846.6	843.9
35°	782.6	778.8	776.0	773.8	772.7	773.2	772.2	774.4	775.4	774.9	775.4
37.5°	654.0	651.8	652.9	654.6	660.1	667.3	673.9	683.8	690.5	697.1	703.2
40°	510.5	512.2	516.6	526.5	540.9	556.9	571.8	590.6	609.3	622.6	634.7
42.5°	385.2	390.2	401.2	415.6	437.1	460.9	484.0	511.6	534.3	556.3	571.8
45°	289.8	296.4	310.7	330.6	354.3	381.9	411.2	442.1	469.1	491.8	508.9
47.5°	225.7	231.8	246.2	267.1	296.4	325.1	355.4	387.5	415.6	437.7	452.6
50°	178.3	186.0	198.7	220.8	250.0	280.4	311.8	343.3	369.8	388.6	401.8
52.5°	140.2	147.4	159.5	182.7	212.5	242.9	272.1	303.0	326.2	344.4	353.2
55°	108.7	115.4	128.0	147.4	175.5	205.3	234.6	261.1	282.6	295.8	304.1
57.5°	82.8	87.8	96.6	115.9	141.3	168.9	193.7	220.2	236.8	246.2	251.7
60°	62.9	66.8	76.2	91.1	114.2	138.0	159.0	178.8	192.1	199.8	205.3
62.5°	47.5	51.9	58.5	71.2	88.8	108.2	125.8	140.7	151.8	156.8	160.6
65°	32.6	35.9	40.8	50.8	65.7	79.5	93.3	104.3	111.5	117.0	119.2
67.5°	24.3	26.5	29.3	37.0	47.5	58.5	67.9	75.6	83.4	85.6	89.4
70°	18.2	19.9	22.6	28.1	34.2	41.9	49.7	54.1	59.6	63.5	64.6
72.5°	11.6	12.1	14.9	18.2	23.2	28.1	33.1	37.0	40.3	42.5	43.6
75°	6.6	9.9	9.9	13.2	16.6	18.8	22.1	24.8	26.5	28.1	28.1
77.5°	4.4	6.1	6.6	8.3	9.9	12.7	15.4	17.1	18.8	19.3	19.3
80°	3.9	4.4	4.4	6.1	7.2	9.4	11.0	11.6	12.7	13.2	14.4
82.5°	1.7	2.2	2.7	4.4	5.0	5.0	6.6	7.2	8.3	8.8	8.8
85°	0.5	1.1	1.1	1.7	2.7	3.3	3.9	4.4	5.0	5.0	5.5
87.5°	0.5	0.5	0.0	0.5	1.1	1.1	2.2	2.2	2.2	3.3	3.3
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: P245816

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1120.4	1121.0	1118.8	1118.2	1117.1	1117.6	1118.8
5°	1100.0	1100.5	1098.3	1096.1	1096.1	1095.6	1096.1
7.5°	1080.7	1081.2	1077.9	1076.8	1074.6	1075.2	1075.2
10°	1061.4	1061.4	1056.4	1055.8	1054.2	1053.6	1053.6
12.5°	1042.6	1040.9	1037.1	1034.9	1036.0	1032.7	1032.7
15°	1026.0	1023.3	1018.3	1016.6	1013.9	1012.8	1012.8
17.5°	1008.9	1006.7	1002.3	999.0	995.7	995.1	995.7
20°	992.4	990.2	984.6	982.4	979.7	979.7	978.6
22.5°	975.8	973.6	968.6	967.0	963.1	963.1	963.7
25°	958.7	957.0	951.5	950.4	949.9	947.6	948.8
27.5°	935.5	934.4	930.0	928.3	926.1	925.6	926.7
30°	893.0	891.4	888.1	886.4	882.5	883.1	884.2
32.5°	840.0	837.8	833.4	831.7	828.4	827.3	827.9
35°	773.8	772.2	768.3	768.3	765.0	763.9	765.0
37.5°	706.5	708.1	706.5	708.1	706.5	705.9	706.5
40°	643.0	649.1	650.2	656.2	654.0	657.3	656.8
42.5°	582.3	592.2	596.1	601.0	600.0	602.2	603.8
45°	521.0	529.3	533.2	536.5	537.0	538.1	538.7
47.5°	463.1	469.7	470.2	474.1	473.6	473.6	475.2
50°	409.0	413.4	414.5	417.3	415.1	413.9	414.5
52.5°	358.8	363.2	362.1	363.2	360.4	359.3	359.8
55°	307.4	309.6	309.6	309.6	306.3	306.3	306.3
57.5°	255.0	255.6	254.4	255.0	254.4	251.1	250.6
60°	207.0	207.0	206.4	207.0	205.3	203.7	203.7
62.5°	161.7	162.8	165.0	162.8	161.7	162.8	161.2
65°	120.9	123.1	122.5	123.6	123.1	123.1	122.0
67.5°	91.1	91.6	92.2	92.7	92.7	92.7	92.7
70°	66.8	68.4	67.9	67.9	67.9	67.9	71.2
72.5°	44.7	46.9	46.4	47.5	47.5	48.6	47.5
75°	30.4	32.6	31.5	33.1	32.6	31.5	34.2
77.5°	20.4	21.5	22.1	22.6	22.1	21.5	22.1
80°	14.4	15.4	14.9	15.4	15.4	15.4	16.0
82.5°	8.8	10.5	9.9	10.5	9.9	10.5	10.5
85°	6.1	6.6	5.5	6.6	6.1	6.1	7.2
87.5°	3.9	3.3	3.3	3.9	3.3	3.9	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)