

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: P246093

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B309727 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2134.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

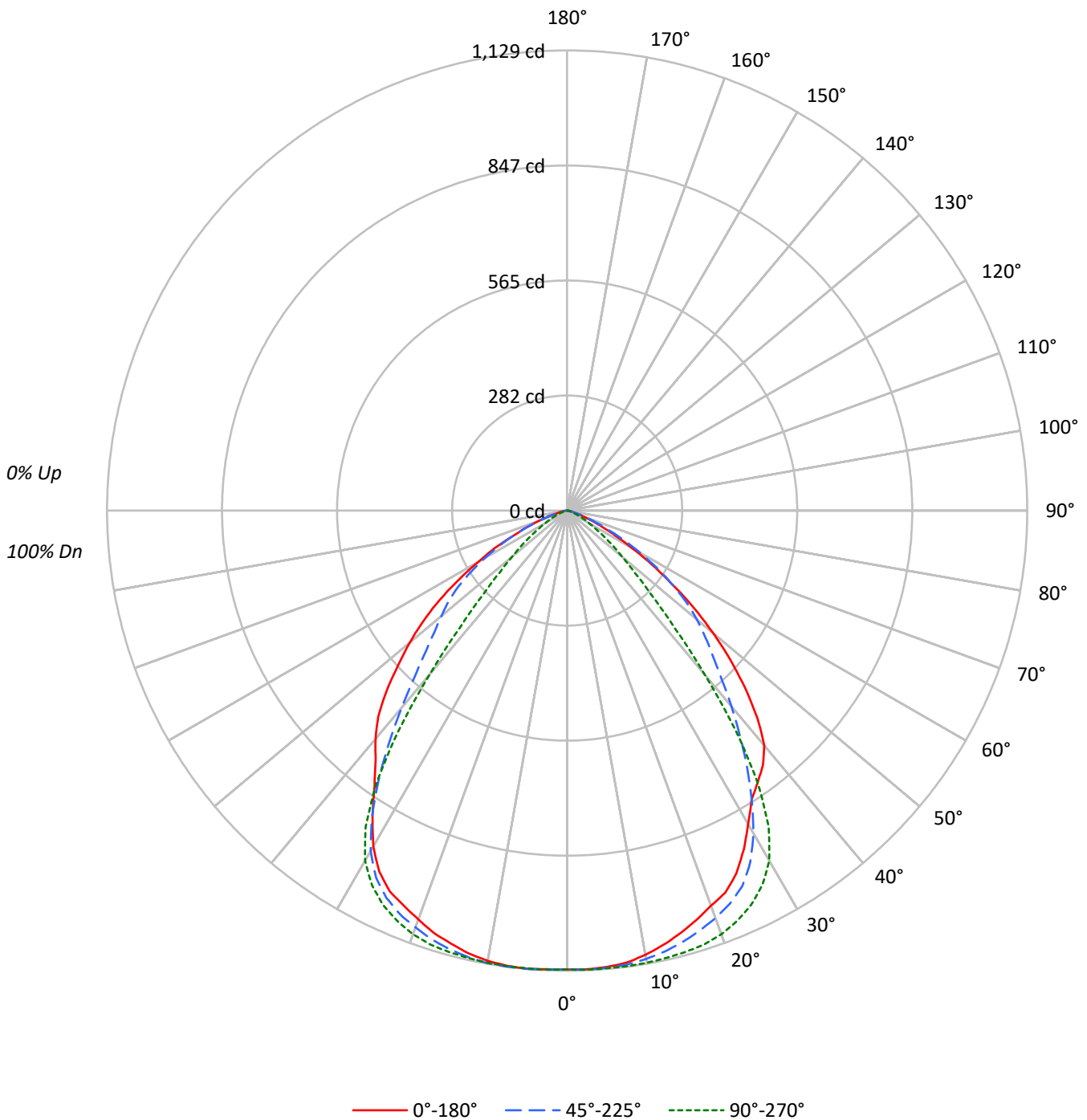
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90	90	90	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70	70	70	70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62	62	62	62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50	50	50	50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	45	45	45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41	41	41	41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	5.0
10°-20°	312.1	14.6
20°-30°	473.7	22.2
30°-40°	497.5	23.3
40°-50°	373.0	17.5
50°-60°	239.3	11.2
60°-70°	102.4	4.8
70°-80°	24.2	1.1
80°-90°	4.5	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°	893.2	41.9
0°-40°	1390.7	65.2
0°-60°	2002.9	93.9
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1126	1126	1126	1126	1126	
5°	1124	1126	1127	1129	1128	107
15°	1073	1096	1121	1114	1100	303
25°	982	1017	1068	1049	1030	449
35°	815	769	815	806	824	511
45°	619	506	291	491	627	474
55°	313	313	108	326	381	284
65°	94	111	34	143	146	101
75°	14	17	5	29	28	21
85°	5	3	2	5	7	5
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°	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1126.5	1127.8	1127.2	1127.2	1126.5	1127.2	1127.2	1128.4	1128.4	1127.2	1126.5
5°	1124.1	1125.3	1125.3	1124.1	1124.1	1127.2	1125.3	1126.5	1126.5	1125.9	1125.9
7.5°	1118.7	1118.7	1121.1	1119.3	1119.3	1121.1	1120.5	1121.7	1122.9	1123.5	1123.5
10°	1106.6	1107.8	1108.4	1108.4	1109.0	1110.8	1112.0	1114.5	1115.7	1116.9	1117.5
12.5°	1091.5	1093.3	1093.9	1093.3	1095.1	1097.5	1100.6	1103.6	1105.4	1107.8	1109.6
15°	1073.4	1073.4	1074.6	1076.4	1077.6	1081.2	1084.2	1087.9	1092.7	1095.7	1098.7
17.5°	1053.4	1054.6	1056.4	1056.4	1058.9	1064.9	1066.7	1072.2	1077.6	1080.6	1086.7
20°	1031.7	1032.9	1034.7	1035.9	1038.9	1043.7	1047.4	1052.2	1058.3	1063.7	1069.7
22.5°	1014.7	1012.3	1013.5	1014.7	1017.8	1022.0	1026.2	1032.3	1038.3	1043.7	1049.8
25°	982.1	982.7	984.5	985.7	989.4	993.0	997.8	1005.1	1010.5	1016.6	1023.2
27.5°	938.0	938.6	941.6	941.6	944.6	950.7	953.7	959.7	967.0	973.0	980.9
30°	887.8	889.0	889.0	891.4	893.3	896.3	899.3	905.3	909.0	914.4	925.3
32.5°	841.9	843.1	842.5	841.9	840.1	839.5	838.9	840.1	841.3	843.1	847.3
35°	814.7	811.7	809.3	805.0	800.2	794.1	788.7	781.5	774.8	769.4	763.3
37.5°	788.7	788.1	784.5	778.4	768.8	757.9	745.2	729.5	713.8	696.8	680.5
40°	752.4	750.6	747.6	739.1	728.3	715.0	698.1	678.7	653.3	627.3	600.7
42.5°	690.8	691.4	687.8	681.1	670.9	658.2	640.6	619.5	592.3	561.5	527.0
45°	618.9	618.9	617.7	612.2	605.0	594.7	581.4	563.9	537.3	505.9	469.0
47.5°	543.9	544.5	542.7	541.5	538.5	531.8	522.2	508.9	490.1	459.9	423.1
50°	467.8	467.8	470.8	470.2	470.2	467.8	463.6	455.7	439.4	415.2	380.8
52.5°	391.6	392.8	394.7	397.1	400.1	404.9	400.1	396.5	386.2	367.5	337.8
55°	313.1	314.3	317.3	321.5	325.2	330.0	331.2	331.2	325.7	313.1	290.7
57.5°	246.0	244.2	246.6	250.2	255.0	259.9	263.5	267.7	267.1	258.7	240.5
60°	184.9	185.5	187.3	191.0	194.6	198.8	203.7	207.3	209.1	204.9	193.4
62.5°	134.8	134.8	137.2	140.8	142.6	148.7	151.7	153.5	155.3	154.7	147.5
65°	94.3	95.5	96.7	98.5	100.3	103.9	105.8	109.4	110.6	111.2	105.8
67.5°	66.5	64.7	65.9	67.1	68.9	71.3	74.9	74.9	76.7	76.7	73.1
70°	42.3	42.3	42.9	44.7	45.9	46.5	47.8	48.9	50.8	50.2	50.2
72.5°	28.4	27.8	28.4	29.0	29.6	31.4	31.4	32.0	33.2	33.8	31.4
75°	14.5	15.1	16.3	15.7	17.5	16.3	16.9	18.7	18.1	16.9	16.9
77.5°	12.1	12.1	12.1	11.5	12.7	12.7	12.1	13.3	12.7	12.7	12.1
80°	8.5	9.1	8.5	7.9	8.5	7.9	7.9	7.9	7.9	7.9	7.2
82.5°	6.7	5.4	6.0	5.4	6.0	6.0	5.4	4.8	4.8	5.4	4.8
85°	4.8	3.6	4.2	4.2	3.6	3.6	3.6	3.6	3.6	3.0	3.0
87.5°	3.0	1.8	1.8	1.8	2.4	2.4	2.4	1.8	2.4	2.4	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1127.8	1127.2	1128.4	1127.8	1127.8	1127.2	1127.8	1127.2	1128.4	1125.9	1126.5
5°	1127.8	1126.5	1127.2	1127.8	1128.4	1127.2	1127.2	1127.2	1128.4	1127.2	1127.8
7.5°	1125.3	1124.7	1126.5	1127.8	1127.2	1126.5	1127.8	1127.2	1128.4	1127.8	1129.0
10°	1120.5	1121.1	1122.3	1124.1	1124.7	1125.3	1126.5	1126.5	1128.4	1125.9	1127.2
12.5°	1113.3	1115.7	1118.7	1119.9	1122.3	1122.3	1123.5	1124.1	1125.3	1124.7	1126.5
15°	1104.2	1107.2	1110.8	1113.9	1116.9	1118.7	1120.5	1121.1	1122.9	1121.1	1121.7
17.5°	1093.3	1096.9	1102.4	1106.0	1110.8	1112.6	1115.1	1116.3	1118.1	1116.9	1117.5
20°	1078.2	1082.4	1088.5	1093.9	1096.9	1101.2	1104.2	1106.0	1107.2	1106.0	1106.6
22.5°	1057.0	1063.1	1070.9	1075.2	1081.2	1084.8	1085.5	1089.7	1092.7	1089.7	1090.9
25°	1032.3	1038.3	1044.4	1053.4	1058.9	1063.1	1067.3	1067.9	1070.9	1070.3	1069.7
27.5°	991.2	999.0	1009.3	1016.6	1023.8	1030.5	1035.3	1036.5	1039.5	1038.3	1038.9
30°	935.0	943.4	953.1	964.6	974.9	981.5	987.5	991.8	994.8	993.0	992.4
32.5°	855.2	863.6	873.9	885.4	897.5	907.2	914.4	919.9	923.5	922.3	919.2
35°	763.9	766.3	773.0	782.1	792.3	802.6	809.3	815.3	819.5	820.7	820.7
37.5°	670.2	662.4	657.6	657.6	663.6	667.8	673.9	677.5	684.1	686.6	688.4
40°	579.6	561.5	544.5	531.8	523.4	522.8	522.8	524.6	530.6	538.5	545.7
42.5°	498.6	469.6	443.6	420.0	403.1	393.4	389.2	389.8	394.7	401.9	414.0
45°	433.9	397.7	365.0	336.6	313.7	298.6	291.3	290.7	294.3	302.8	316.1
47.5°	383.8	345.1	308.2	275.6	250.8	234.5	226.0	223.6	226.0	233.9	249.6
50°	342.1	302.2	264.1	230.3	203.7	186.8	178.9	175.9	178.9	185.5	201.2
52.5°	303.4	262.3	226.6	194.0	165.6	151.1	142.6	140.8	142.6	150.5	163.2
55°	258.7	223.6	188.6	155.9	131.2	116.6	110.0	108.2	110.0	117.3	130.5
57.5°	214.6	184.3	153.5	123.9	102.7	90.0	84.0	81.6	85.8	90.7	106.4
60°	173.4	149.3	123.3	97.3	79.8	68.3	63.5	62.8	64.1	70.1	81.0
62.5°	136.0	116.0	95.5	74.3	59.8	55.0	48.9	48.4	49.6	53.2	61.7
65°	97.9	85.2	69.5	54.4	42.9	36.3	33.8	34.5	35.7	38.1	45.9
67.5°	68.3	59.2	48.4	38.1	29.6	26.6	24.2	23.6	24.2	28.4	32.6
70°	45.9	40.5	32.6	29.0	20.6	16.3	16.9	15.1	17.5	17.5	21.1
72.5°	30.2	26.6	21.8	16.9	14.5	11.5	11.5	10.9	12.1	12.7	15.7
75°	15.7	12.1	12.1	8.5	6.0	3.0	5.4	4.8	4.2	4.8	6.0
77.5°	10.9	9.1	8.5	6.7	6.0	4.8	4.8	4.8	4.8	5.4	6.0
80°	6.7	6.7	4.8	4.2	3.6	3.0	3.6	3.6	3.6	3.6	4.2
82.5°	4.2	3.6	3.6	3.0	3.0	2.4	2.4	2.4	2.4	2.4	3.6
85°	3.6	2.4	2.4	1.8	2.4	4.2	1.8	2.4	2.4	2.4	1.8
87.5°	1.2	1.8	1.8	1.8	1.2	0.6	1.2	1.8	1.8	3.0	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1127.8	1128.4	1128.4	1127.8	1127.8	1126.5	1129.0	1127.2	1127.8	1130.2	1128.4
5°	1129.0	1129.6	1129.6	1129.0	1129.0	1129.0	1129.6	1129.6	1129.0	1128.4	1129.6
7.5°	1131.4	1130.8	1130.8	1129.6	1129.6	1128.4	1129.6	1127.8	1129.0	1127.8	1129.6
10°	1128.4	1129.0	1128.4	1127.8	1127.8	1127.2	1127.2	1125.3	1125.9	1124.1	1125.3
12.5°	1126.5	1125.9	1125.9	1124.7	1123.5	1122.3	1121.7	1119.9	1119.9	1115.7	1117.5
15°	1121.7	1122.3	1120.5	1118.1	1116.9	1113.9	1112.6	1110.2	1107.8	1104.8	1105.4
17.5°	1117.5	1115.7	1113.3	1110.8	1106.0	1103.6	1101.2	1097.5	1096.3	1092.7	1091.5
20°	1104.8	1103.6	1100.6	1096.3	1093.3	1087.9	1085.5	1081.8	1078.8	1075.2	1073.4
22.5°	1088.5	1087.3	1083.6	1079.4	1074.6	1072.2	1069.7	1063.1	1060.1	1056.4	1055.8
25°	1067.9	1066.1	1062.5	1057.6	1055.2	1048.6	1046.2	1041.3	1040.1	1036.5	1035.9
27.5°	1036.5	1034.1	1029.8	1023.8	1019.6	1015.3	1012.9	1009.3	1008.1	1004.5	1003.9
30°	989.4	986.3	977.9	975.5	968.2	964.0	964.0	959.1	959.7	957.3	957.3
32.5°	915.0	910.2	903.5	898.7	893.9	891.4	891.4	889.6	890.8	890.8	892.1
35°	816.5	809.9	806.2	803.2	803.2	805.6	812.9	814.7	818.3	821.3	823.8
37.5°	690.2	689.6	693.8	697.4	706.5	716.8	729.5	740.4	750.6	757.9	765.1
40°	553.6	568.7	580.8	597.7	611.6	631.6	654.5	673.3	690.8	703.5	716.8
42.5°	432.1	451.5	476.9	501.6	526.4	553.6	583.8	609.8	632.8	650.3	664.2
45°	336.6	363.2	394.1	425.5	457.5	491.4	522.8	549.4	573.6	591.7	605.6
47.5°	271.4	300.4	335.4	369.9	406.1	441.8	476.9	499.8	519.8	534.3	547.0
50°	224.2	255.0	291.9	331.2	367.5	403.1	433.3	455.7	472.0	484.7	492.6
52.5°	187.3	220.0	259.3	298.6	334.8	367.5	394.7	411.6	424.9	433.9	441.2
55°	154.7	186.2	223.0	259.9	295.5	326.4	348.7	361.4	371.7	377.1	381.4
57.5°	126.3	155.3	189.2	223.0	253.8	279.2	296.7	309.4	314.3	318.5	317.9
60°	99.1	126.3	157.1	186.2	212.7	233.3	246.0	253.2	256.9	258.7	257.5
62.5°	78.0	102.7	126.3	151.7	171.0	188.6	200.7	200.7	202.5	203.1	204.9
65°	58.0	76.7	97.3	116.0	131.7	143.2	149.9	151.7	154.1	153.5	152.3
67.5°	42.9	56.8	71.9	85.8	96.7	103.9	108.8	113.0	112.4	111.2	110.6
70°	29.6	38.7	52.0	60.4	68.3	75.6	76.7	77.4	78.0	78.6	77.4
72.5°	20.6	27.2	34.5	41.7	46.5	49.6	52.6	53.2	53.2	53.2	52.6
75°	10.3	13.9	20.6	23.6	27.8	29.0	31.4	31.4	33.2	30.8	30.2
77.5°	9.1	10.9	14.5	16.9	18.7	20.6	21.1	23.0	22.4	21.1	21.8
80°	5.4	6.7	9.1	10.3	12.7	13.3	13.9	14.5	13.9	14.5	14.5
82.5°	4.2	4.8	6.0	6.0	7.9	7.9	8.5	8.5	9.1	9.1	9.1
85°	2.4	4.2	3.6	7.2	4.8	4.8	6.0	7.2	6.0	6.0	7.2
87.5°	2.4	2.4	1.8	2.4	2.4	2.4	3.0	3.6	3.6	4.2	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: P246093

CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1125.9	1125.9	1125.9	1125.9
2.5°	1127.8	1129.0	1127.2	1126.5
5°	1129.6	1129.6	1128.4	1128.4
7.5°	1129.6	1129.6	1127.8	1126.5
10°	1124.7	1124.7	1122.9	1121.7
12.5°	1115.7	1115.7	1115.1	1113.3
15°	1104.2	1104.2	1101.8	1100.0
17.5°	1088.5	1089.7	1086.7	1086.7
20°	1071.6	1070.9	1068.5	1067.3
22.5°	1054.0	1052.8	1052.2	1048.6
25°	1035.3	1034.1	1032.3	1030.5
27.5°	1003.3	1002.7	1000.8	998.4
30°	954.3	953.7	951.3	951.3
32.5°	890.8	890.2	887.8	888.4
35°	825.0	827.4	826.2	823.8
37.5°	770.0	771.8	773.0	771.8
40°	724.0	729.5	730.1	731.3
42.5°	675.1	682.3	684.8	686.0
45°	616.5	623.1	628.5	627.3
47.5°	556.6	561.5	566.3	562.7
50°	499.2	502.2	504.0	504.0
52.5°	444.8	444.8	444.2	444.8
55°	382.6	382.6	380.2	381.4
57.5°	317.3	318.5	316.7	313.7
60°	256.9	253.8	252.6	250.8
62.5°	200.1	200.1	195.8	201.2
65°	149.9	148.1	146.3	145.6
67.5°	108.8	108.2	106.4	105.8
70°	76.7	74.3	73.7	72.5
72.5°	51.4	51.4	50.2	50.2
75°	31.4	28.4	27.8	28.4
77.5°	21.8	21.1	21.1	20.6
80°	14.5	13.9	15.1	13.3
82.5°	9.1	9.7	9.1	9.7
85°	6.0	7.2	6.7	6.7
87.5°	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)