

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: P244580

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244580
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 EC8B209727 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

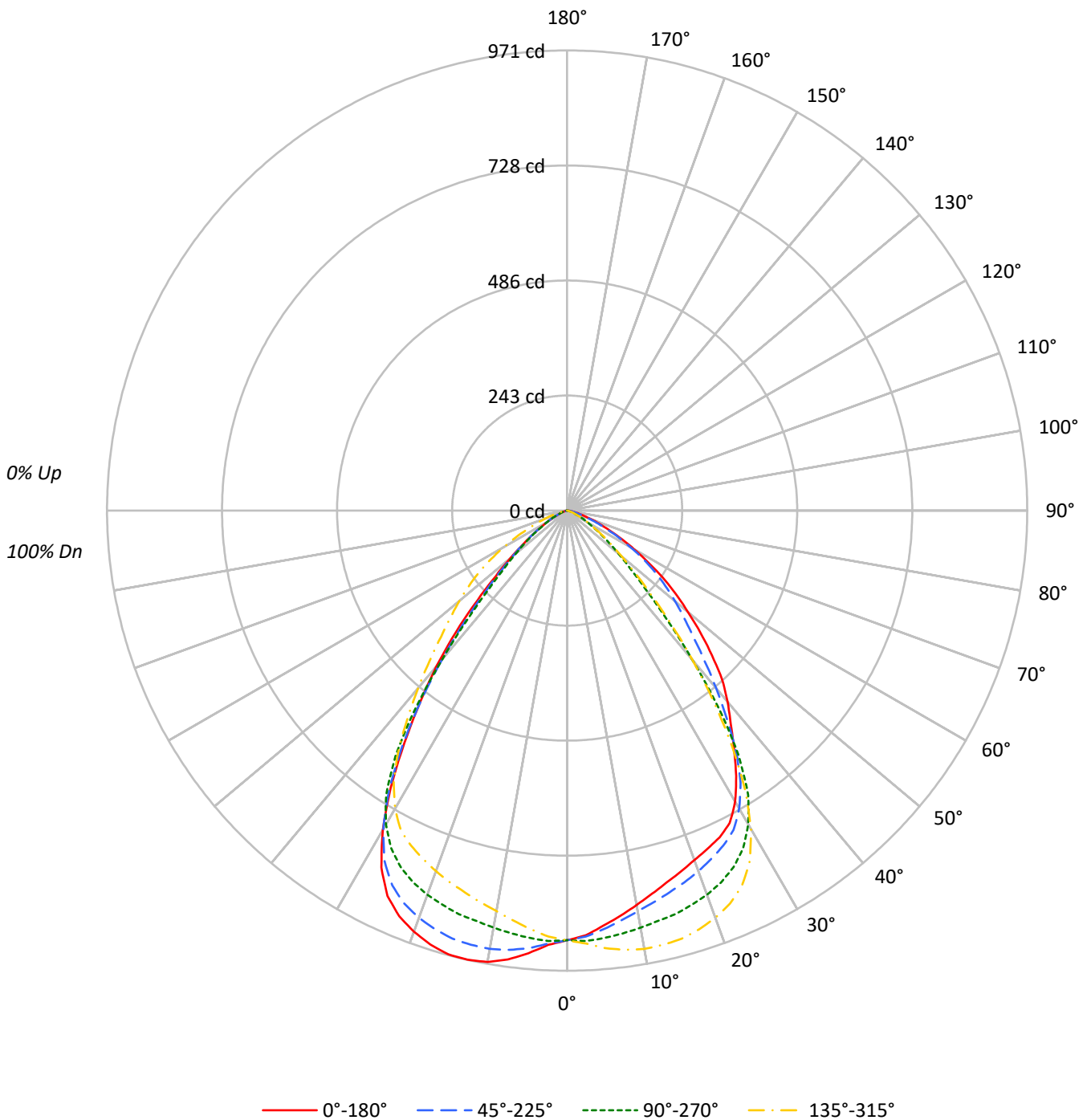
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LSR8B20D010 EC8B209727 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
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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CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	5.7
10°-20°	249.9	16.4
20°-30°	378.3	24.8
30°-40°	379.2	24.8
40°-50°	238.1	15.6
50°-60°	126.9	8.3
60°-70°	52.2	3.4
70°-80°	13.8	0.9
80°-90°	2.3	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°	714.5	46.8
0°-40°	1093.7	71.6
0°-60°	1458.7	95.5
0°-90°	1527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	906	906	906	906	906	
5°	879	905	938	905	879	83
15°	812	882	969	882	812	230
25°	761	830	897	830	761	349
35°	614	631	598	631	614	384
45°	432	231	267	231	432	332
55°	246	85	90	85	246	219
65°	98	26	24	26	98	101
75°	27	5	4	5	27	31
85°	6	0	0	0	6	6
90°	0	0	0	0	0	



TEST NUMBER: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	897.2	896.3	895.9	896.8	897.2	899.0	898.6	899.4	899.4	899.9	900.8
5°	879.1	878.6	879.1	879.1	880.9	882.6	882.2	883.5	884.4	886.6	887.5
7.5°	862.3	862.3	861.8	863.6	864.5	867.1	866.7	868.9	870.2	872.4	875.5
10°	845.0	845.0	845.4	846.8	847.2	851.2	851.2	854.3	856.1	858.3	862.3
12.5°	828.2	828.2	830.8	830.0	831.7	834.8	836.1	839.2	841.9	846.3	850.3
15°	812.2	812.2	813.1	815.3	816.7	820.7	822.9	826.4	829.5	833.9	839.7
17.5°	798.5	798.1	798.5	801.2	803.8	807.4	809.1	813.6	816.7	822.4	827.8
20°	784.8	785.7	785.7	787.9	789.7	794.1	795.9	800.7	804.3	809.6	815.8
22.5°	772.9	772.4	772.4	775.5	776.8	780.8	782.6	787.0	791.0	795.4	801.2
25°	760.9	760.0	761.8	762.2	763.1	767.5	768.9	772.0	776.0	779.9	785.7
27.5°	743.2	742.3	742.8	744.5	745.9	749.4	750.3	753.4	756.5	760.0	764.9
30°	709.1	708.2	707.8	710.9	712.2	714.9	716.2	721.5	722.4	726.4	729.9
32.5°	664.0	663.5	664.4	667.1	668.4	671.9	673.7	676.8	679.0	681.2	684.8
35°	613.5	612.6	613.5	616.2	616.2	619.3	620.6	621.9	621.5	621.9	621.0
37.5°	566.6	566.1	566.6	567.9	566.6	567.9	566.6	563.9	559.1	553.7	548.4
40°	526.7	527.2	524.5	526.3	521.4	520.6	515.7	509.0	499.3	488.7	473.6
42.5°	484.3	482.9	481.2	482.0	478.1	474.9	467.0	458.6	446.2	428.5	410.3
45°	432.0	431.6	430.7	430.3	427.6	424.5	417.8	408.1	394.4	376.3	354.6
47.5°	381.1	379.8	379.8	380.2	377.1	376.7	371.4	363.0	351.0	333.3	310.7
50°	332.4	332.0	332.9	334.6	332.4	331.5	328.0	322.2	311.6	296.6	275.3
52.5°	288.6	288.2	289.1	291.3	290.4	291.3	287.7	283.3	276.2	261.6	243.0
55°	245.7	245.7	245.7	248.3	248.3	248.3	246.5	243.9	237.3	226.6	209.4
57.5°	201.0	201.4	204.1	204.5	204.1	205.0	204.5	201.8	197.4	189.9	176.6
60°	163.3	163.3	164.7	166.0	165.5	166.0	166.0	164.7	160.2	154.0	143.4
62.5°	129.2	130.6	129.7	130.6	132.3	130.6	129.7	128.8	125.7	121.7	112.9
65°	97.8	98.7	98.7	99.2	98.3	98.7	96.9	95.6	93.8	89.4	83.7
67.5°	74.4	74.4	74.4	74.4	73.9	73.5	73.0	71.7	68.6	66.8	60.6
70°	57.1	54.4	54.4	54.4	54.4	54.9	53.6	51.8	50.9	47.8	43.4
72.5°	38.1	39.0	38.1	38.1	37.2	37.6	35.9	35.0	34.1	32.3	29.7
75°	27.4	25.2	26.1	26.6	25.2	26.1	24.3	22.6	22.6	21.2	19.9
77.5°	17.7	17.3	17.7	18.1	17.7	17.3	16.4	15.5	15.5	15.0	13.7
80°	12.8	12.4	12.4	12.4	12.0	12.4	11.5	11.5	10.6	10.2	9.3
82.5°	8.4	8.4	8.0	8.4	8.0	8.4	7.1	7.1	7.1	6.6	5.8
85°	5.8	4.9	4.9	5.3	4.4	5.3	4.9	4.4	4.0	4.0	3.5
87.5°	2.7	3.1	2.7	3.1	2.7	2.7	3.1	2.7	2.7	1.8	1.8
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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	902.1	902.5	902.5	904.3	905.2	905.6	905.6	909.2	907.9	908.8	909.6
5°	889.3	891.9	892.8	892.8	897.7	899.4	901.2	905.2	905.6	908.3	911.4
7.5°	876.9	880.0	881.8	885.7	888.8	891.9	897.2	899.9	902.5	906.1	910.1
10°	864.9	868.5	872.0	875.1	880.0	884.0	887.5	893.7	896.8	901.7	907.0
12.5°	853.4	858.3	861.4	866.7	872.0	875.5	880.9	886.6	891.5	896.3	902.5
15°	843.2	849.0	852.5	858.3	864.0	868.9	874.7	881.8	885.3	891.0	896.8
17.5°	832.2	838.4	842.8	848.1	855.2	860.5	865.4	872.4	876.9	883.1	889.7
20°	820.7	826.9	832.2	837.5	844.6	849.9	855.6	862.7	867.6	873.8	879.1
22.5°	806.9	812.7	818.4	824.6	831.7	836.1	842.8	849.0	854.3	860.1	865.4
25°	789.2	796.3	800.7	806.5	812.2	817.1	824.2	830.4	834.8	840.1	845.0
27.5°	768.4	773.7	777.3	782.1	787.9	792.3	797.6	803.8	808.3	813.1	816.7
30°	733.0	737.9	741.0	744.5	750.3	754.3	758.7	764.4	767.5	771.1	774.2
32.5°	686.5	690.5	692.3	694.9	698.9	702.9	706.5	711.3	712.7	714.9	714.9
35°	619.3	620.1	619.7	620.6	622.4	624.6	627.7	630.8	632.5	632.5	631.2
37.5°	540.5	535.2	529.4	525.0	523.6	522.8	524.5	525.9	527.6	528.5	526.3
40°	458.6	446.6	433.8	422.3	414.3	410.8	409.4	410.3	410.3	413.4	413.4
42.5°	388.2	369.6	350.6	333.3	321.8	313.0	309.0	309.0	309.4	311.6	313.0
45°	329.8	306.3	284.2	265.1	249.2	237.7	232.4	231.1	230.6	231.5	234.6
47.5°	285.1	260.7	237.7	214.2	197.4	185.9	181.0	179.3	177.5	179.3	179.7
50°	250.1	224.9	200.5	177.1	159.3	149.2	143.0	140.3	139.9	139.9	140.8
52.5°	218.2	194.8	170.4	146.5	127.9	118.2	112.4	111.1	109.3	111.1	111.1
55°	188.1	164.7	140.8	118.2	102.7	92.5	87.2	85.4	84.5	85.9	85.9
57.5°	155.4	135.4	113.3	93.0	77.5	70.4	66.4	64.2	63.7	64.6	63.7
60°	127.5	110.7	91.6	73.0	61.1	53.6	50.5	49.6	48.7	49.6	49.6
62.5°	100.9	86.8	71.3	57.1	46.9	41.6	38.1	38.1	37.6	37.6	38.1
65°	74.8	63.7	52.7	40.7	32.8	28.8	26.1	26.1	25.7	26.1	25.7
67.5°	54.4	46.9	38.1	29.7	23.5	21.2	19.5	18.1	19.0	18.1	17.7
70°	39.8	33.6	27.4	22.6	18.1	15.9	14.6	14.2	13.3	13.3	13.3
72.5°	26.6	22.6	18.6	14.6	12.0	9.7	9.3	8.4	7.5	8.0	8.9
75°	17.7	15.0	13.3	10.6	8.0	8.0	5.3	5.3	4.4	5.3	4.0
77.5°	12.4	10.2	8.0	6.6	5.3	4.9	3.5	3.5	3.1	3.1	3.1
80°	8.9	7.5	5.8	4.9	3.5	3.5	3.1	2.7	2.2	2.2	2.7
82.5°	5.3	4.0	4.0	3.5	2.2	1.8	1.3	1.8	0.9	0.9	0.9
85°	3.1	2.7	2.2	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.0
87.5°	1.8	0.9	0.9	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.9
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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	911.9	911.4	912.3	912.3	914.9	914.5	915.8	915.8	914.9	915.4	917.2
5°	914.9	916.3	918.9	921.1	925.1	926.9	929.1	931.3	931.8	933.1	934.4
7.5°	914.9	919.4	922.5	926.4	931.8	934.9	939.7	943.7	945.5	947.7	950.3
10°	913.2	917.6	923.3	927.8	934.4	939.3	944.2	950.3	953.0	956.5	960.1
12.5°	909.6	914.5	920.7	926.4	934.0	938.4	944.6	950.3	954.3	959.2	963.2
15°	904.3	910.1	915.8	921.6	929.5	934.9	940.6	947.3	951.2	956.5	960.1
17.5°	895.9	902.1	907.4	912.7	920.3	926.4	931.8	938.0	942.0	946.4	951.2
20°	885.7	891.5	897.2	901.7	909.2	914.5	920.3	926.0	929.1	930.0	937.5
22.5°	872.9	876.9	881.3	888.4	892.8	897.7	903.0	908.3	911.4	916.3	918.9
25°	851.6	855.6	860.5	863.6	868.9	872.9	878.2	884.0	885.7	889.3	891.9
27.5°	822.0	824.2	826.4	829.1	832.2	834.4	837.5	840.1	841.9	843.7	845.4
30°	775.1	775.1	775.1	773.3	774.6	776.0	776.4	776.0	776.0	775.5	775.5
32.5°	713.1	709.6	705.6	702.0	700.7	698.9	698.0	696.7	694.5	693.2	693.6
35°	629.4	621.5	616.6	612.2	608.6	606.0	604.7	603.3	602.9	601.1	599.3
37.5°	525.0	519.2	515.7	513.0	509.9	507.3	507.7	508.2	509.5	508.6	509.0
40°	414.3	413.0	414.3	411.2	410.3	411.2	413.4	416.5	418.3	420.1	423.2
42.5°	315.2	317.4	320.5	320.5	321.8	323.6	326.2	331.1	333.7	336.8	340.4
45°	237.3	239.9	243.9	245.2	246.1	248.3	251.4	255.4	257.2	259.8	262.9
47.5°	182.8	184.6	186.8	189.0	191.2	192.1	195.2	195.2	197.4	199.2	200.1
50°	142.5	144.3	146.1	147.4	148.3	149.6	150.5	151.8	152.3	153.2	153.6
52.5°	111.5	113.8	113.8	114.6	116.0	117.3	116.9	117.3	117.7	117.7	119.1
55°	87.2	87.2	88.5	88.5	89.4	89.0	89.4	89.4	89.4	89.4	89.9
57.5°	65.1	65.5	66.8	66.0	65.5	66.4	65.5	66.4	66.0	66.8	65.5
60°	50.0	50.0	50.5	50.5	50.9	50.9	50.9	50.5	50.5	50.0	50.0
62.5°	37.6	38.1	38.5	38.1	38.1	38.1	37.6	37.6	37.2	36.7	36.7
65°	25.2	24.8	25.7	24.8	25.2	25.2	24.8	25.2	23.9	24.3	23.9
67.5°	18.1	17.7	17.3	17.7	17.3	16.8	16.8	17.3	17.7	16.4	16.4
70°	12.0	12.4	12.0	12.4	12.8	12.8	12.4	12.0	12.4	11.5	12.0
72.5°	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.1	7.1	6.6
75°	3.5	4.9	4.0	3.5	4.9	4.9	4.4	4.4	4.0	4.0	4.0
77.5°	3.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.2	2.7	2.2
80°	1.8	1.8	1.8	1.3	1.8	1.8	2.2	1.8	1.8	1.3	2.2
82.5°	0.9	0.9	0.9	0.0	0.4	0.9	0.9	0.4	0.9	0.9	0.4
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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	916.7	916.3	916.7	917.2	916.7	916.3	916.7	917.2	915.4	914.9	915.8
5°	936.2	936.2	937.1	937.5	937.1	936.2	936.2	934.4	933.1	931.8	931.3
7.5°	953.0	953.9	954.8	955.2	954.8	953.9	953.0	950.3	947.7	945.5	943.7
10°	963.2	964.5	966.3	967.2	966.3	964.5	963.2	960.1	956.5	953.0	950.3
12.5°	967.6	969.0	971.2	970.7	971.2	969.0	967.6	963.2	959.2	954.3	950.3
15°	964.5	966.3	968.5	969.4	968.5	966.3	964.5	960.1	956.5	951.2	947.3
17.5°	954.8	957.4	958.8	960.1	958.8	957.4	954.8	951.2	946.4	942.0	938.0
20°	941.5	943.3	945.0	945.5	945.0	943.3	941.5	937.5	930.0	929.1	926.0
22.5°	922.5	923.8	927.8	926.4	927.8	923.8	922.5	918.9	916.3	911.4	908.3
25°	895.0	896.3	896.8	897.2	896.8	896.3	895.0	891.9	889.3	885.7	884.0
27.5°	847.7	847.7	848.5	849.0	848.5	847.7	847.7	845.4	843.7	841.9	840.1
30°	776.0	776.0	776.0	778.2	776.0	776.0	776.0	775.5	775.5	776.0	776.0
32.5°	693.2	692.3	691.4	692.3	691.4	692.3	693.2	693.6	693.2	694.5	696.7
35°	599.3	598.9	600.2	598.5	600.2	598.9	599.3	599.3	601.1	602.9	603.3
37.5°	509.5	508.6	510.4	508.6	510.4	508.6	509.5	509.0	508.6	509.5	508.2
40°	424.1	424.9	424.9	428.5	424.9	424.9	424.1	423.2	420.1	418.3	416.5
42.5°	342.2	344.8	343.9	346.6	343.9	344.8	342.2	340.4	336.8	333.7	331.1
45°	264.7	266.5	266.5	267.4	266.5	266.5	264.7	262.9	259.8	257.2	255.4
47.5°	203.2	203.2	203.2	203.6	203.2	203.2	203.2	200.1	199.2	197.4	195.2
50°	154.5	154.9	155.4	155.8	155.4	154.9	154.5	153.6	153.2	152.3	151.8
52.5°	118.6	119.1	118.2	119.1	118.2	119.1	118.6	119.1	117.7	117.7	117.3
55°	89.9	89.4	89.9	90.3	89.9	89.4	89.9	89.9	89.4	89.4	89.4
57.5°	66.0	65.1	65.1	65.1	65.1	65.1	66.0	65.5	66.8	66.0	66.4
60°	49.1	49.6	49.6	50.0	49.6	49.6	49.1	50.0	50.0	50.5	50.5
62.5°	36.3	37.6	36.7	37.6	36.7	37.6	36.3	36.7	36.7	37.2	37.6
65°	23.5	23.5	23.5	23.9	23.5	23.5	23.5	23.9	24.3	23.9	25.2
67.5°	15.9	16.4	17.3	16.8	17.3	16.4	15.9	16.4	16.4	17.7	17.3
70°	12.8	11.5	11.5	12.8	11.5	11.5	12.8	12.0	11.5	12.4	12.0
72.5°	7.5	6.6	7.5	7.5	7.5	6.6	7.5	6.6	7.1	7.1	8.0
75°	4.0	3.5	3.1	4.4	3.1	3.5	4.0	4.0	4.0	4.0	4.4
77.5°	2.7	2.2	3.1	3.1	3.1	2.2	2.7	2.2	2.7	2.2	2.7
80°	1.3	1.8	1.3	2.2	1.3	1.8	1.3	2.2	1.3	1.8	1.8
82.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9	0.4
85°	0.0	0.9	0.4	0.4	0.4	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	915.8	914.5	914.9	912.3	912.3	911.4	911.9	909.6	908.8	907.9	909.2
5°	929.1	926.9	925.1	921.1	918.9	916.3	914.9	911.4	908.3	905.6	905.2
7.5°	939.7	934.9	931.8	926.4	922.5	919.4	914.9	910.1	906.1	902.5	899.9
10°	944.2	939.3	934.4	927.8	923.3	917.6	913.2	907.0	901.7	896.8	893.7
12.5°	944.6	938.4	934.0	926.4	920.7	914.5	909.6	902.5	896.3	891.5	886.6
15°	940.6	934.9	929.5	921.6	915.8	910.1	904.3	896.8	891.0	885.3	881.8
17.5°	931.8	926.4	920.3	912.7	907.4	902.1	895.9	889.7	883.1	876.9	872.4
20°	920.3	914.5	909.2	901.7	897.2	891.5	885.7	879.1	873.8	867.6	862.7
22.5°	903.0	897.7	892.8	888.4	881.3	876.9	872.9	865.4	860.1	854.3	849.0
25°	878.2	872.9	868.9	863.6	860.5	855.6	851.6	845.0	840.1	834.8	830.4
27.5°	837.5	834.4	832.2	829.1	826.4	824.2	822.0	816.7	813.1	808.3	803.8
30°	776.4	776.0	774.6	773.3	775.1	775.1	775.1	774.2	771.1	767.5	764.4
32.5°	698.0	698.9	700.7	702.0	705.6	709.6	713.1	714.9	714.9	712.7	711.3
35°	604.7	606.0	608.6	612.2	616.6	621.5	629.4	631.2	632.5	632.5	630.8
37.5°	507.7	507.3	509.9	513.0	515.7	519.2	525.0	526.3	528.5	527.6	525.9
40°	413.4	411.2	410.3	411.2	414.3	413.0	414.3	413.4	413.4	410.3	410.3
42.5°	326.2	323.6	321.8	320.5	320.5	317.4	315.2	313.0	311.6	309.4	309.0
45°	251.4	248.3	246.1	245.2	243.9	239.9	237.3	234.6	231.5	230.6	231.1
47.5°	195.2	192.1	191.2	189.0	186.8	184.6	182.8	179.7	179.3	177.5	179.3
50°	150.5	149.6	148.3	147.4	146.1	144.3	142.5	140.8	139.9	139.9	140.3
52.5°	116.9	117.3	116.0	114.6	113.8	113.8	111.5	111.1	111.1	109.3	111.1
55°	89.4	89.0	89.4	88.5	88.5	87.2	87.2	85.9	85.9	84.5	85.4
57.5°	65.5	66.4	65.5	66.0	66.8	65.5	65.1	63.7	64.6	63.7	64.2
60°	50.9	50.9	50.9	50.5	50.5	50.0	50.0	49.6	49.6	48.7	49.6
62.5°	37.6	38.1	38.1	38.1	38.5	38.1	37.6	38.1	37.6	37.6	38.1
65°	24.8	25.2	25.2	24.8	25.7	24.8	25.2	25.7	26.1	25.7	26.1
67.5°	16.8	16.8	17.3	17.7	17.3	17.7	18.1	17.7	18.1	19.0	18.1
70°	12.4	12.8	12.8	12.4	12.0	12.4	12.0	13.3	13.3	13.3	14.2
72.5°	8.0	8.0	7.5	7.5	7.5	7.5	7.5	8.9	8.0	7.5	8.4
75°	4.4	4.9	4.9	3.5	4.0	4.9	3.5	4.0	5.3	4.4	5.3
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.5	3.1	3.1	3.1	3.5
80°	2.2	1.8	1.8	1.3	1.8	1.8	1.8	2.7	2.2	2.2	2.7
82.5°	0.9	0.9	0.4	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	905.6	905.6	905.2	904.3	902.5	902.5	902.1	900.8	899.9	899.4	899.4
5°	901.2	899.4	897.7	892.8	892.8	891.9	889.3	887.5	886.6	884.4	883.5
7.5°	897.2	891.9	888.8	885.7	881.8	880.0	876.9	875.5	872.4	870.2	868.9
10°	887.5	884.0	880.0	875.1	872.0	868.5	864.9	862.3	858.3	856.1	854.3
12.5°	880.9	875.5	872.0	866.7	861.4	858.3	853.4	850.3	846.3	841.9	839.2
15°	874.7	868.9	864.0	858.3	852.5	849.0	843.2	839.7	833.9	829.5	826.4
17.5°	865.4	860.5	855.2	848.1	842.8	838.4	832.2	827.8	822.4	816.7	813.6
20°	855.6	849.9	844.6	837.5	832.2	826.9	820.7	815.8	809.6	804.3	800.7
22.5°	842.8	836.1	831.7	824.6	818.4	812.7	806.9	801.2	795.4	791.0	787.0
25°	824.2	817.1	812.2	806.5	800.7	796.3	789.2	785.7	779.9	776.0	772.0
27.5°	797.6	792.3	787.9	782.1	777.3	773.7	768.4	764.9	760.0	756.5	753.4
30°	758.7	754.3	750.3	744.5	741.0	737.9	733.0	729.9	726.4	722.4	721.5
32.5°	706.5	702.9	698.9	694.9	692.3	690.5	686.5	684.8	681.2	679.0	676.8
35°	627.7	624.6	622.4	620.6	619.7	620.1	619.3	621.0	621.9	621.5	621.9
37.5°	524.5	522.8	523.6	525.0	529.4	535.2	540.5	548.4	553.7	559.1	563.9
40°	409.4	410.8	414.3	422.3	433.8	446.6	458.6	473.6	488.7	499.3	509.0
42.5°	309.0	313.0	321.8	333.3	350.6	369.6	388.2	410.3	428.5	446.2	458.6
45°	232.4	237.7	249.2	265.1	284.2	306.3	329.8	354.6	376.3	394.4	408.1
47.5°	181.0	185.9	197.4	214.2	237.7	260.7	285.1	310.7	333.3	351.0	363.0
50°	143.0	149.2	159.3	177.1	200.5	224.9	250.1	275.3	296.6	311.6	322.2
52.5°	112.4	118.2	127.9	146.5	170.4	194.8	218.2	243.0	261.6	276.2	283.3
55°	87.2	92.5	102.7	118.2	140.8	164.7	188.1	209.4	226.6	237.3	243.9
57.5°	66.4	70.4	77.5	93.0	113.3	135.4	155.4	176.6	189.9	197.4	201.8
60°	50.5	53.6	61.1	73.0	91.6	110.7	127.5	143.4	154.0	160.2	164.7
62.5°	38.1	41.6	46.9	57.1	71.3	86.8	100.9	112.9	121.7	125.7	128.8
65°	26.1	28.8	32.8	40.7	52.7	63.7	74.8	83.7	89.4	93.8	95.6
67.5°	19.5	21.2	23.5	29.7	38.1	46.9	54.4	60.6	66.8	68.6	71.7
70°	14.6	15.9	18.1	22.6	27.4	33.6	39.8	43.4	47.8	50.9	51.8
72.5°	9.3	9.7	12.0	14.6	18.6	22.6	26.6	29.7	32.3	34.1	35.0
75°	5.3	8.0	8.0	10.6	13.3	15.0	17.7	19.9	21.2	22.6	22.6
77.5°	3.5	4.9	5.3	6.6	8.0	10.2	12.4	13.7	15.0	15.5	15.5
80°	3.1	3.5	3.5	4.9	5.8	7.5	8.9	9.3	10.2	10.6	11.5
82.5°	1.3	1.8	2.2	3.5	4.0	4.0	5.3	5.8	6.6	7.1	7.1
85°	0.4	0.9	0.9	1.3	2.2	2.7	3.1	3.5	4.0	4.0	4.4
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.8	1.8	1.8	2.7	2.7
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: P244580

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	898.6	899.0	897.2	896.8	895.9	896.3	897.2
5°	882.2	882.6	880.9	879.1	879.1	878.6	879.1
7.5°	866.7	867.1	864.5	863.6	861.8	862.3	862.3
10°	851.2	851.2	847.2	846.8	845.4	845.0	845.0
12.5°	836.1	834.8	831.7	830.0	830.8	828.2	828.2
15°	822.9	820.7	816.7	815.3	813.1	812.2	812.2
17.5°	809.1	807.4	803.8	801.2	798.5	798.1	798.5
20°	795.9	794.1	789.7	787.9	785.7	785.7	784.8
22.5°	782.6	780.8	776.8	775.5	772.4	772.4	772.9
25°	768.9	767.5	763.1	762.2	761.8	760.0	760.9
27.5°	750.3	749.4	745.9	744.5	742.8	742.3	743.2
30°	716.2	714.9	712.2	710.9	707.8	708.2	709.1
32.5°	673.7	671.9	668.4	667.1	664.4	663.5	664.0
35°	620.6	619.3	616.2	616.2	613.5	612.6	613.5
37.5°	566.6	567.9	566.6	567.9	566.6	566.1	566.6
40°	515.7	520.6	521.4	526.3	524.5	527.2	526.7
42.5°	467.0	474.9	478.1	482.0	481.2	482.9	484.3
45°	417.8	424.5	427.6	430.3	430.7	431.6	432.0
47.5°	371.4	376.7	377.1	380.2	379.8	379.8	381.1
50°	328.0	331.5	332.4	334.6	332.9	332.0	332.4
52.5°	287.7	291.3	290.4	291.3	289.1	288.2	288.6
55°	246.5	248.3	248.3	248.3	245.7	245.7	245.7
57.5°	204.5	205.0	204.1	204.5	204.1	201.4	201.0
60°	166.0	166.0	165.5	166.0	164.7	163.3	163.3
62.5°	129.7	130.6	132.3	130.6	129.7	130.6	129.2
65°	96.9	98.7	98.3	99.2	98.7	98.7	97.8
67.5°	73.0	73.5	73.9	74.4	74.4	74.4	74.4
70°	53.6	54.9	54.4	54.4	54.4	54.4	57.1
72.5°	35.9	37.6	37.2	38.1	38.1	39.0	38.1
75°	24.3	26.1	25.2	26.6	26.1	25.2	27.4
77.5°	16.4	17.3	17.7	18.1	17.7	17.3	17.7
80°	11.5	12.4	12.0	12.4	12.4	12.4	12.8
82.5°	7.1	8.4	8.0	8.4	8.0	8.4	8.4
85°	4.9	5.3	4.4	5.3	4.9	4.9	5.8
87.5°	3.1	2.7	2.7	3.1	2.7	3.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)