

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: P249015

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249015
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: LSR8B120D010 EC8B120850 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12359.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

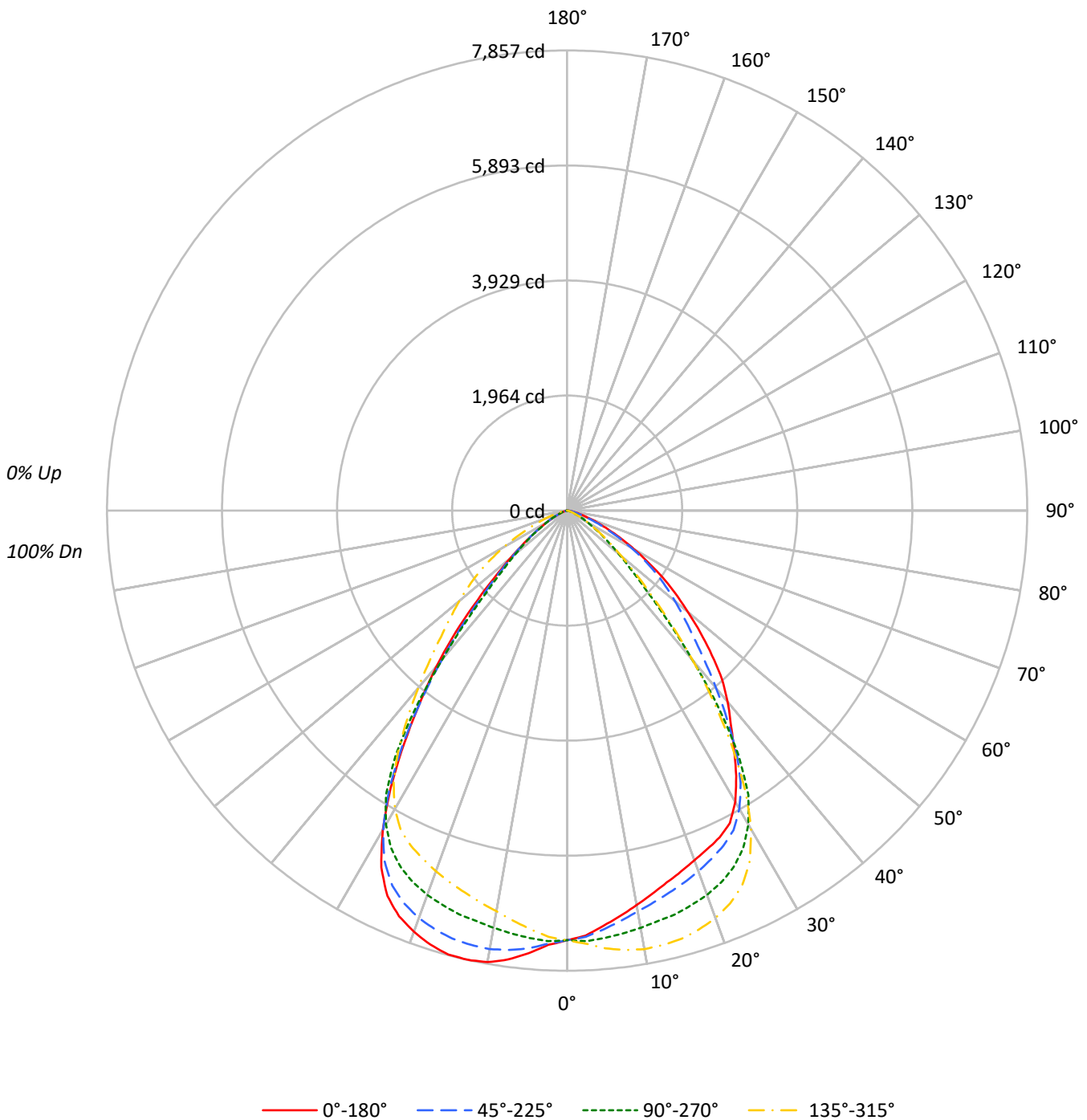
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	226249	226249	226249	226249
5°	220242	226782	234880	226782
10°	214149	226486	245107	226486
15°	209869	227830	250473	227830
20°	208440	229133	251116	229133
25°	209537	228673	247080	228673
30°	204354	220302	224262	220302
35°	186922	192181	182337	192181
40°	171615	133683	139601	133683
45°	152484	81553	94366	81553
50°	129071	54478	60498	54478
55°	106899	37176	39289	37176
60°	81531	24743	24965	24743
65°	57766	15417	14119	15417
70°	41663	10332	9377	10332
75°	26462	5135	4265	5135
80°	18468	3818	3161	3818
85°	16487	0	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.4	5.7
10°-20°	2022.3	16.4
20°-30°	3062.2	24.8
30°-40°	3069.1	24.8
40°-50°	1927.2	15.6
50°-60°	1027.0	8.3
60°-70°	422.3	3.4
70°-80°	111.6	0.9
80°-90°	18.9	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°	5782.9	46.8
0°-40°	8852.0	71.6
0°-60°	11806.2	95.5
0°-90°	12359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12359.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7337	7337	7337	7337	7337	
5°	7115	7326	7588	7326	7115	671
15°	6574	7137	7846	7137	6574	1859
25°	6158	6721	7262	6721	6158	2825
35°	4966	5105	4844	5105	4966	3111
45°	3497	1870	2164	1870	3497	2689
55°	1988	692	731	692	1988	1773
65°	792	211	194	211	792	821
75°	222	43	36	43	222	252
85°	47	0	4	0	47	51
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°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7261.9	7254.7	7251.2	7258.4	7261.9	7276.2	7272.7	7279.8	7279.8	7283.5	7290.5
5°	7115.1	7111.4	7115.1	7115.1	7129.4	7143.7	7140.1	7150.9	7158.0	7176.0	7183.0
7.5°	6979.0	6979.0	6975.3	6989.6	6996.8	7018.3	7014.6	7032.6	7043.4	7061.2	7086.3
10°	6839.2	6839.2	6842.7	6853.5	6857.2	6889.3	6889.3	6914.4	6928.7	6946.7	6979.0
12.5°	6703.1	6703.1	6724.6	6717.4	6731.7	6756.7	6767.5	6792.6	6814.1	6849.9	6882.2
15°	6574.0	6574.0	6581.3	6599.1	6609.9	6642.2	6660.0	6688.8	6713.8	6749.7	6796.3
17.5°	6463.0	6459.4	6463.0	6484.5	6506.0	6534.7	6549.0	6584.8	6609.9	6656.5	6699.5
20°	6351.9	6359.2	6359.2	6377.0	6391.3	6427.2	6441.5	6481.0	6509.6	6552.5	6602.8
22.5°	6255.2	6251.7	6251.7	6276.7	6287.5	6319.7	6334.0	6369.8	6402.1	6437.9	6484.5
25°	6158.5	6151.3	6165.7	6169.2	6176.3	6212.2	6222.9	6248.0	6280.3	6312.6	6359.2
27.5°	6015.1	6008.1	6011.6	6025.9	6036.7	6065.3	6072.5	6097.6	6122.6	6151.3	6190.8
30°	5739.2	5732.2	5728.6	5753.7	5764.5	5785.8	5796.6	5839.7	5846.7	5879.0	5907.6
32.5°	5373.8	5370.3	5377.5	5398.9	5409.7	5438.4	5452.7	5477.8	5495.6	5513.6	5542.2
35°	4965.5	4958.3	4965.5	4987.0	4987.0	5012.1	5022.9	5033.5	5029.9	5033.5	5026.4
37.5°	4585.8	4582.1	4585.8	4596.4	4585.8	4596.4	4585.8	4564.3	4524.9	4481.8	4438.8
40°	4263.3	4266.8	4245.4	4259.8	4220.2	4213.2	4173.8	4120.0	4041.2	3955.2	3833.4
42.5°	3919.4	3908.6	3894.3	3901.4	3869.3	3844.1	3779.6	3711.6	3611.2	3468.0	3321.0
45°	3496.6	3493.1	3485.9	3482.3	3460.8	3435.7	3381.9	3303.2	3192.1	3045.2	2869.6
47.5°	3084.6	3073.9	3073.9	3077.4	3052.3	3048.8	3005.7	2937.7	2841.0	2697.7	2515.0
50°	2690.5	2686.9	2694.1	2708.4	2690.5	2683.4	2654.8	2608.2	2522.2	2400.4	2228.3
52.5°	2335.8	2332.3	2339.5	2357.3	2350.1	2357.3	2328.7	2292.9	2235.5	2117.3	1966.9
55°	1988.4	1988.4	1988.4	2009.8	2009.8	2009.8	1995.5	1974.1	1920.3	1834.3	1694.6
57.5°	1626.5	1630.1	1651.6	1655.1	1651.6	1658.8	1655.1	1633.6	1597.9	1537.0	1429.5
60°	1322.0	1322.0	1332.8	1343.5	1339.8	1343.5	1343.5	1332.8	1296.9	1246.8	1160.8
62.5°	1046.1	1056.9	1049.6	1056.9	1071.2	1056.9	1049.6	1042.6	1017.5	985.2	913.5
65°	791.7	799.0	799.0	802.5	795.3	799.0	784.6	773.9	759.6	723.7	677.1
67.5°	601.9	601.9	601.9	601.9	598.3	594.7	591.2	580.4	555.3	541.0	490.8
70°	462.1	440.6	440.6	440.6	440.6	444.3	433.5	419.2	412.0	386.9	351.1
72.5°	308.0	315.3	308.0	308.0	301.0	304.5	290.2	283.0	275.9	261.6	240.1
75°	222.1	204.2	211.3	215.0	204.2	211.3	197.0	182.7	182.7	171.9	161.2
77.5°	143.3	139.8	143.3	146.9	143.3	139.8	132.6	125.3	125.3	121.8	111.0
80°	104.0	100.3	100.3	100.3	96.7	100.3	93.2	93.2	86.0	82.4	75.2
82.5°	68.1	68.1	64.4	68.1	64.4	68.1	57.4	57.4	57.4	53.7	46.6
85°	46.6	39.4	39.4	43.1	35.8	43.1	39.4	35.8	32.3	32.3	28.6
87.5°	21.5	25.1	21.5	25.1	21.5	21.5	25.1	21.5	21.5	14.3	14.3
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°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7301.3	7304.9	7304.9	7319.3	7326.4	7329.9	7329.9	7358.7	7347.9	7355.1	7362.2
5°	7197.5	7218.9	7226.1	7226.1	7265.5	7279.8	7294.1	7326.4	7329.9	7351.5	7376.5
7.5°	7097.1	7122.1	7136.6	7168.7	7193.8	7218.9	7261.9	7283.5	7304.9	7333.6	7365.8
10°	7000.3	7029.1	7057.7	7082.8	7122.1	7154.4	7183.0	7233.2	7258.4	7297.8	7340.7
12.5°	6907.3	6946.7	6971.7	7014.6	7057.7	7086.3	7129.4	7176.0	7215.3	7254.7	7304.9
15°	6824.9	6871.5	6900.1	6946.7	6993.3	7032.6	7079.2	7136.6	7165.2	7211.8	7258.4
17.5°	6735.2	6785.5	6821.3	6864.2	6921.6	6964.5	7004.0	7061.2	7097.1	7147.2	7201.0
20°	6642.2	6692.3	6735.2	6778.3	6835.6	6878.5	6925.1	6982.5	7021.9	7072.0	7115.1
22.5°	6531.1	6577.7	6624.2	6674.3	6731.7	6767.5	6821.3	6871.5	6914.4	6961.0	7004.0
25°	6387.8	6445.1	6481.0	6527.4	6574.0	6613.4	6670.8	6720.9	6756.7	6799.8	6839.2
27.5°	6219.4	6262.4	6291.0	6330.4	6377.0	6412.9	6455.8	6506.0	6541.9	6581.3	6609.9
30°	5932.7	5972.2	5997.3	6025.9	6072.5	6104.8	6140.6	6187.1	6212.2	6240.9	6266.0
32.5°	5556.5	5588.8	5603.1	5624.7	5657.0	5689.1	5717.9	5757.2	5768.0	5785.8	5785.8
35°	5012.1	5019.2	5015.6	5022.9	5037.2	5055.0	5080.1	5105.2	5119.5	5119.5	5108.8
37.5°	4374.3	4331.4	4284.8	4249.0	4238.2	4231.0	4245.4	4256.1	4270.5	4277.6	4259.8
40°	3711.6	3614.9	3510.9	3417.7	3353.3	3324.7	3313.9	3321.0	3321.0	3346.1	3346.1
42.5°	3142.0	2991.4	2837.5	2697.7	2604.5	2533.0	2500.7	2500.7	2504.2	2522.2	2533.0
45°	2669.1	2479.1	2300.0	2146.0	2017.0	1923.8	1880.9	1870.1	1866.6	1873.7	1898.7
47.5°	2307.2	2110.2	1923.8	1734.0	1597.9	1504.7	1465.3	1450.9	1436.6	1450.9	1454.6
50°	2024.2	1820.0	1623.0	1433.0	1289.7	1207.3	1157.1	1135.6	1132.1	1132.1	1139.3
52.5°	1766.2	1576.4	1379.4	1185.9	1035.3	956.6	910.0	899.2	884.9	899.2	899.2
55°	1522.6	1332.8	1139.3	956.6	831.1	748.8	705.8	691.5	684.2	695.0	695.0
57.5°	1257.6	1096.2	917.2	752.4	627.0	569.6	537.4	519.5	515.8	523.0	515.8
60°	1031.8	895.7	741.6	591.2	494.4	433.5	408.5	401.2	394.0	401.2	401.2
62.5°	816.8	702.2	576.7	462.1	379.7	336.8	308.0	308.0	304.5	304.5	308.0
65°	605.5	515.8	426.3	329.6	265.1	232.8	211.3	211.3	207.8	211.3	207.8
67.5°	440.6	379.7	308.0	240.1	189.9	171.9	157.6	146.9	154.1	146.9	143.3
70°	322.5	272.2	222.1	182.7	146.9	129.0	118.3	114.6	107.5	107.5	107.5
72.5°	215.0	182.7	150.4	118.3	96.7	78.7	75.2	68.1	60.9	64.4	71.7
75°	143.3	121.8	107.5	86.0	64.4	64.4	43.1	43.1	35.8	43.1	32.3
77.5°	100.3	82.4	64.4	53.7	43.1	39.4	28.6	28.6	25.1	25.1	25.1
80°	71.7	60.9	46.6	39.4	28.6	28.6	25.1	21.5	17.8	17.8	21.5
82.5°	43.1	32.3	32.3	28.6	17.8	14.3	10.8	14.3	7.2	7.2	7.2
85°	25.1	21.5	17.8	10.8	7.2	7.2	3.5	0.0	3.5	3.5	0.0
87.5°	14.3	7.2	7.2	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.2
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°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7380.2	7376.5	7383.7	7383.7	7405.3	7401.6	7412.4	7412.4	7405.3	7408.8	7423.1
5°	7405.3	7416.0	7437.4	7455.4	7487.6	7502.0	7519.9	7537.8	7541.4	7552.1	7562.9
7.5°	7405.3	7441.1	7466.2	7498.3	7541.4	7566.5	7605.8	7638.1	7652.4	7670.3	7691.8
10°	7390.8	7426.7	7473.3	7509.1	7562.9	7602.3	7641.7	7691.8	7713.3	7741.9	7770.7
12.5°	7362.2	7401.6	7451.7	7498.3	7559.2	7595.1	7645.2	7691.8	7724.1	7763.5	7795.8
15°	7319.3	7365.8	7412.4	7459.0	7523.4	7566.5	7613.0	7666.7	7699.0	7741.9	7770.7
17.5°	7251.2	7301.3	7344.4	7387.3	7448.2	7498.3	7541.4	7591.5	7623.8	7659.6	7699.0
20°	7168.7	7215.3	7261.9	7297.8	7358.7	7401.6	7448.2	7494.8	7519.9	7527.1	7588.0
22.5°	7064.9	7097.1	7132.9	7190.3	7226.1	7265.5	7308.5	7351.5	7376.5	7416.0	7437.4
25°	6892.8	6925.1	6964.5	6989.6	7032.6	7064.9	7107.8	7154.4	7168.7	7197.5	7218.9
27.5°	6652.9	6670.8	6688.8	6710.1	6735.2	6753.2	6778.3	6799.8	6814.1	6828.4	6842.7
30°	6273.1	6273.1	6273.1	6258.8	6269.5	6280.3	6283.8	6280.3	6280.3	6276.7	6276.7
32.5°	5771.5	5742.9	5710.6	5682.0	5671.3	5657.0	5649.7	5639.0	5621.1	5610.4	5613.9
35°	5094.4	5029.9	4990.6	4954.7	4926.1	4904.6	4893.8	4883.1	4879.5	4865.2	4850.8
37.5°	4249.0	4202.4	4173.8	4152.3	4127.2	4105.7	4109.2	4112.9	4123.5	4116.4	4120.0
40°	3353.3	3342.5	3353.3	3328.2	3321.0	3328.2	3346.1	3371.3	3385.6	3399.9	3425.0
42.5°	2550.8	2568.7	2593.9	2593.9	2604.5	2618.9	2640.3	2679.8	2701.2	2726.3	2755.0
45°	1920.3	1941.8	1974.1	1984.7	1991.9	2009.8	2035.0	2067.1	2081.4	2103.0	2128.0
47.5°	1479.6	1493.9	1511.8	1529.8	1547.6	1554.8	1579.9	1579.9	1597.9	1612.2	1619.3
50°	1153.6	1167.9	1182.2	1193.0	1200.2	1211.0	1218.0	1228.8	1232.3	1239.6	1243.1
52.5°	902.8	920.8	920.8	927.8	938.6	949.4	945.8	949.4	952.9	952.9	963.7
55°	705.8	705.8	716.5	716.5	723.7	720.1	723.7	723.7	723.7	723.7	727.3
57.5°	526.6	530.3	541.0	533.8	530.3	537.4	530.3	537.4	533.8	541.0	530.3
60°	404.8	404.8	408.5	408.5	412.0	412.0	412.0	408.5	408.5	404.8	404.8
62.5°	304.5	308.0	311.7	308.0	308.0	308.0	304.5	304.5	301.0	297.3	297.3
65°	204.2	200.7	207.8	200.7	204.2	204.2	200.7	204.2	193.5	197.0	193.5
67.5°	146.9	143.3	139.8	143.3	139.8	136.1	136.1	139.8	143.3	132.6	132.6
70°	96.7	100.3	96.7	100.3	104.0	104.0	100.3	96.7	100.3	93.2	96.7
72.5°	60.9	60.9	60.9	60.9	60.9	64.4	64.4	64.4	57.4	57.4	53.7
75°	28.6	39.4	32.3	28.6	39.4	39.4	35.8	35.8	32.3	32.3	32.3
77.5°	28.6	21.5	21.5	21.5	21.5	21.5	21.5	21.5	17.8	21.5	17.8
80°	14.3	14.3	14.3	10.8	14.3	14.3	17.8	14.3	14.3	10.8	17.8
82.5°	7.2	7.2	7.2	0.0	3.5	7.2	7.2	3.5	7.2	7.2	3.5
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: P249015

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7419.6	7416.0	7419.6	7423.1	7419.6	7416.0	7419.6	7423.1	7408.8	7405.3	7412.4
5°	7577.2	7577.2	7584.3	7588.0	7584.3	7577.2	7577.2	7562.9	7552.1	7541.4	7537.8
7.5°	7713.3	7720.5	7727.6	7731.2	7727.6	7720.5	7713.3	7691.8	7670.3	7652.4	7638.1
10°	7795.8	7806.5	7820.8	7827.9	7820.8	7806.5	7795.8	7770.7	7741.9	7713.3	7691.8
12.5°	7831.6	7842.4	7860.2	7856.7	7860.2	7842.4	7831.6	7795.8	7763.5	7724.1	7691.8
15°	7806.5	7820.8	7838.7	7845.9	7838.7	7820.8	7806.5	7770.7	7741.9	7699.0	7666.7
17.5°	7727.6	7749.2	7759.9	7770.7	7759.9	7749.2	7727.6	7699.0	7659.6	7623.8	7591.5
20°	7620.1	7634.6	7648.9	7652.4	7648.9	7634.6	7620.1	7588.0	7527.1	7519.9	7494.8
22.5°	7466.2	7476.9	7509.1	7498.3	7509.1	7476.9	7466.2	7437.4	7416.0	7376.5	7351.5
25°	7244.0	7254.7	7258.4	7261.9	7258.4	7254.7	7244.0	7218.9	7197.5	7168.7	7154.4
27.5°	6860.7	6860.7	6867.8	6871.5	6867.8	6860.7	6860.7	6842.7	6828.4	6814.1	6799.8
30°	6280.3	6280.3	6280.3	6298.3	6280.3	6280.3	6280.3	6276.7	6276.7	6280.3	6280.3
32.5°	5610.4	5603.1	5596.1	5603.1	5596.1	5603.1	5610.4	5613.9	5610.4	5621.1	5639.0
35°	4850.8	4847.2	4858.0	4843.7	4858.0	4847.2	4850.8	4850.8	4865.2	4879.5	4883.1
37.5°	4123.5	4116.4	4130.7	4116.4	4130.7	4116.4	4123.5	4120.0	4116.4	4123.5	4112.9
40°	3432.2	3439.3	3439.3	3468.0	3439.3	3439.3	3432.2	3425.0	3399.9	3385.6	3371.3
42.5°	2769.3	2790.9	2783.7	2805.2	2783.7	2790.9	2769.3	2755.0	2726.3	2701.2	2679.8
45°	2142.3	2156.8	2156.8	2163.9	2156.8	2156.8	2142.3	2128.0	2103.0	2081.4	2067.1
47.5°	1644.4	1644.4	1644.4	1648.0	1644.4	1644.4	1644.4	1619.3	1612.2	1597.9	1579.9
50°	1250.3	1253.9	1257.6	1261.1	1257.6	1253.9	1250.3	1243.1	1239.6	1232.3	1228.8
52.5°	960.1	963.7	956.6	963.7	956.6	963.7	960.1	963.7	952.9	952.9	949.4
55°	727.3	723.7	727.3	730.8	727.3	723.7	727.3	727.3	723.7	723.7	723.7
57.5°	533.8	526.6	526.6	526.6	526.6	526.6	533.8	530.3	541.0	533.8	537.4
60°	397.7	401.2	401.2	404.8	401.2	401.2	397.7	404.8	404.8	408.5	408.5
62.5°	293.7	304.5	297.3	304.5	297.3	304.5	293.7	297.3	297.3	301.0	304.5
65°	189.9	189.9	189.9	193.5	189.9	189.9	189.9	193.5	197.0	193.5	204.2
67.5°	129.0	132.6	139.8	136.1	139.8	132.6	129.0	132.6	132.6	143.3	139.8
70°	104.0	93.2	93.2	104.0	93.2	93.2	104.0	96.7	93.2	100.3	96.7
72.5°	60.9	53.7	60.9	60.9	60.9	53.7	60.9	53.7	57.4	57.4	64.4
75°	32.3	28.6	25.1	35.8	25.1	28.6	32.3	32.3	32.3	32.3	35.8
77.5°	21.5	17.8	25.1	25.1	25.1	17.8	21.5	17.8	21.5	17.8	21.5
80°	10.8	14.3	10.8	17.8	10.8	14.3	10.8	17.8	10.8	14.3	14.3
82.5°	3.5	7.2	7.2	7.2	7.2	7.2	3.5	3.5	7.2	7.2	3.5
85°	0.0	7.2	3.5	3.5	3.5	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P249015

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7412.4	7401.6	7405.3	7383.7	7383.7	7376.5	7380.2	7362.2	7355.1	7347.9	7358.7
5°	7519.9	7502.0	7487.6	7455.4	7437.4	7416.0	7405.3	7376.5	7351.5	7329.9	7326.4
7.5°	7605.8	7566.5	7541.4	7498.3	7466.2	7441.1	7405.3	7365.8	7333.6	7304.9	7283.5
10°	7641.7	7602.3	7562.9	7509.1	7473.3	7426.7	7390.8	7340.7	7297.8	7258.4	7233.2
12.5°	7645.2	7595.1	7559.2	7498.3	7451.7	7401.6	7362.2	7304.9	7254.7	7215.3	7176.0
15°	7613.0	7566.5	7523.4	7459.0	7412.4	7365.8	7319.3	7258.4	7211.8	7165.2	7136.6
17.5°	7541.4	7498.3	7448.2	7387.3	7344.4	7301.3	7251.2	7201.0	7147.2	7097.1	7061.2
20°	7448.2	7401.6	7358.7	7297.8	7261.9	7215.3	7168.7	7115.1	7072.0	7021.9	6982.5
22.5°	7308.5	7265.5	7226.1	7190.3	7132.9	7097.1	7064.9	7004.0	6961.0	6914.4	6871.5
25°	7107.8	7064.9	7032.6	6989.6	6964.5	6925.1	6892.8	6839.2	6799.8	6756.7	6720.9
27.5°	6778.3	6753.2	6735.2	6710.1	6688.8	6670.8	6652.9	6609.9	6581.3	6541.9	6506.0
30°	6283.8	6280.3	6269.5	6258.8	6273.1	6273.1	6273.1	6266.0	6240.9	6212.2	6187.1
32.5°	5649.7	5657.0	5671.3	5682.0	5710.6	5742.9	5771.5	5785.8	5785.8	5768.0	5757.2
35°	4893.8	4904.6	4926.1	4954.7	4990.6	5029.9	5094.4	5108.8	5119.5	5119.5	5105.2
37.5°	4109.2	4105.7	4127.2	4152.3	4173.8	4202.4	4249.0	4259.8	4277.6	4270.5	4256.1
40°	3346.1	3328.2	3321.0	3328.2	3353.3	3342.5	3353.3	3346.1	3346.1	3321.0	3321.0
42.5°	2640.3	2618.9	2604.5	2593.9	2593.9	2568.7	2550.8	2533.0	2522.2	2504.2	2500.7
45°	2035.0	2009.8	1991.9	1984.7	1974.1	1941.8	1920.3	1898.7	1873.7	1866.6	1870.1
47.5°	1579.9	1554.8	1547.6	1529.8	1511.8	1493.9	1479.6	1454.6	1450.9	1436.6	1450.9
50°	1218.0	1211.0	1200.2	1193.0	1182.2	1167.9	1153.6	1139.3	1132.1	1132.1	1135.6
52.5°	945.8	949.4	938.6	927.8	920.8	920.8	902.8	899.2	899.2	884.9	899.2
55°	723.7	720.1	723.7	716.5	716.5	705.8	705.8	695.0	695.0	684.2	691.5
57.5°	530.3	537.4	530.3	533.8	541.0	530.3	526.6	515.8	523.0	515.8	519.5
60°	412.0	412.0	412.0	408.5	408.5	404.8	404.8	401.2	401.2	394.0	401.2
62.5°	304.5	308.0	308.0	308.0	311.7	308.0	304.5	308.0	304.5	304.5	308.0
65°	200.7	204.2	204.2	200.7	207.8	200.7	204.2	207.8	211.3	207.8	211.3
67.5°	136.1	136.1	139.8	143.3	139.8	143.3	146.9	143.3	146.9	154.1	146.9
70°	100.3	104.0	104.0	100.3	96.7	100.3	96.7	107.5	107.5	107.5	114.6
72.5°	64.4	64.4	60.9	60.9	60.9	60.9	60.9	71.7	64.4	60.9	68.1
75°	35.8	39.4	39.4	28.6	32.3	39.4	28.6	32.3	43.1	35.8	43.1
77.5°	21.5	21.5	21.5	21.5	21.5	21.5	28.6	25.1	25.1	25.1	28.6
80°	17.8	14.3	14.3	10.8	14.3	14.3	14.3	21.5	17.8	17.8	21.5
82.5°	7.2	7.2	3.5	0.0	7.2	7.2	7.2	7.2	7.2	7.2	14.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	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: P249015

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7329.9	7329.9	7326.4	7319.3	7304.9	7304.9	7301.3	7290.5	7283.5	7279.8	7279.8
5°	7294.1	7279.8	7265.5	7226.1	7226.1	7218.9	7197.5	7183.0	7176.0	7158.0	7150.9
7.5°	7261.9	7218.9	7193.8	7168.7	7136.6	7122.1	7097.1	7086.3	7061.2	7043.4	7032.6
10°	7183.0	7154.4	7122.1	7082.8	7057.7	7029.1	7000.3	6979.0	6946.7	6928.7	6914.4
12.5°	7129.4	7086.3	7057.7	7014.6	6971.7	6946.7	6907.3	6882.2	6849.9	6814.1	6792.6
15°	7079.2	7032.6	6993.3	6946.7	6900.1	6871.5	6824.9	6796.3	6749.7	6713.8	6688.8
17.5°	7004.0	6964.5	6921.6	6864.2	6821.3	6785.5	6735.2	6699.5	6656.5	6609.9	6584.8
20°	6925.1	6878.5	6835.6	6778.3	6735.2	6692.3	6642.2	6602.8	6552.5	6509.6	6481.0
22.5°	6821.3	6767.5	6731.7	6674.3	6624.2	6577.7	6531.1	6484.5	6437.9	6402.1	6369.8
25°	6670.8	6613.4	6574.0	6527.4	6481.0	6445.1	6387.8	6359.2	6312.6	6280.3	6248.0
27.5°	6455.8	6412.9	6377.0	6330.4	6291.0	6262.4	6219.4	6190.8	6151.3	6122.6	6097.6
30°	6140.6	6104.8	6072.5	6025.9	5997.3	5972.2	5932.7	5907.6	5879.0	5846.7	5839.7
32.5°	5717.9	5689.1	5657.0	5624.7	5603.1	5588.8	5556.5	5542.2	5513.6	5495.6	5477.8
35°	5080.1	5055.0	5037.2	5022.9	5015.6	5019.2	5012.1	5026.4	5033.5	5029.9	5033.5
37.5°	4245.4	4231.0	4238.2	4249.0	4284.8	4331.4	4374.3	4438.8	4481.8	4524.9	4564.3
40°	3313.9	3324.7	3353.3	3417.7	3510.9	3614.9	3711.6	3833.4	3955.2	4041.2	4120.0
42.5°	2500.7	2533.0	2604.5	2697.7	2837.5	2991.4	3142.0	3321.0	3468.0	3611.2	3711.6
45°	1880.9	1923.8	2017.0	2146.0	2300.0	2479.1	2669.1	2869.6	3045.2	3192.1	3303.2
47.5°	1465.3	1504.7	1597.9	1734.0	1923.8	2110.2	2307.2	2515.0	2697.7	2841.0	2937.7
50°	1157.1	1207.3	1289.7	1433.0	1623.0	1820.0	2024.2	2228.3	2400.4	2522.2	2608.2
52.5°	910.0	956.6	1035.3	1185.9	1379.4	1576.4	1766.2	1966.9	2117.3	2235.5	2292.9
55°	705.8	748.8	831.1	956.6	1139.3	1332.8	1522.6	1694.6	1834.3	1920.3	1974.1
57.5°	537.4	569.6	627.0	752.4	917.2	1096.2	1257.6	1429.5	1537.0	1597.9	1633.6
60°	408.5	433.5	494.4	591.2	741.6	895.7	1031.8	1160.8	1246.8	1296.9	1332.8
62.5°	308.0	336.8	379.7	462.1	576.7	702.2	816.8	913.5	985.2	1017.5	1042.6
65°	211.3	232.8	265.1	329.6	426.3	515.8	605.5	677.1	723.7	759.6	773.9
67.5°	157.6	171.9	189.9	240.1	308.0	379.7	440.6	490.8	541.0	555.3	580.4
70°	118.3	129.0	146.9	182.7	222.1	272.2	322.5	351.1	386.9	412.0	419.2
72.5°	75.2	78.7	96.7	118.3	150.4	182.7	215.0	240.1	261.6	275.9	283.0
75°	43.1	64.4	64.4	86.0	107.5	121.8	143.3	161.2	171.9	182.7	182.7
77.5°	28.6	39.4	43.1	53.7	64.4	82.4	100.3	111.0	121.8	125.3	125.3
80°	25.1	28.6	28.6	39.4	46.6	60.9	71.7	75.2	82.4	86.0	93.2
82.5°	10.8	14.3	17.8	28.6	32.3	32.3	43.1	46.6	53.7	57.4	57.4
85°	3.5	7.2	7.2	10.8	17.8	21.5	25.1	28.6	32.3	32.3	35.8
87.5°	3.5	3.5	0.0	3.5	7.2	7.2	14.3	14.3	14.3	21.5	21.5
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: P249015

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1	7337.1
2.5°	7272.7	7276.2	7261.9	7258.4	7251.2	7254.7	7261.9
5°	7140.1	7143.7	7129.4	7115.1	7115.1	7111.4	7115.1
7.5°	7014.6	7018.3	6996.8	6989.6	6975.3	6979.0	6979.0
10°	6889.3	6889.3	6857.2	6853.5	6842.7	6839.2	6839.2
12.5°	6767.5	6756.7	6731.7	6717.4	6724.6	6703.1	6703.1
15°	6660.0	6642.2	6609.9	6599.1	6581.3	6574.0	6574.0
17.5°	6549.0	6534.7	6506.0	6484.5	6463.0	6459.4	6463.0
20°	6441.5	6427.2	6391.3	6377.0	6359.2	6359.2	6351.9
22.5°	6334.0	6319.7	6287.5	6276.7	6251.7	6251.7	6255.2
25°	6222.9	6212.2	6176.3	6169.2	6165.7	6151.3	6158.5
27.5°	6072.5	6065.3	6036.7	6025.9	6011.6	6008.1	6015.1
30°	5796.6	5785.8	5764.5	5753.7	5728.6	5732.2	5739.2
32.5°	5452.7	5438.4	5409.7	5398.9	5377.5	5370.3	5373.8
35°	5022.9	5012.1	4987.0	4987.0	4965.5	4958.3	4965.5
37.5°	4585.8	4596.4	4585.8	4596.4	4585.8	4582.1	4585.8
40°	4173.8	4213.2	4220.2	4259.8	4245.4	4266.8	4263.3
42.5°	3779.6	3844.1	3869.3	3901.4	3894.3	3908.6	3919.4
45°	3381.9	3435.7	3460.8	3482.3	3485.9	3493.1	3496.6
47.5°	3005.7	3048.8	3052.3	3077.4	3073.9	3073.9	3084.6
50°	2654.8	2683.4	2690.5	2708.4	2694.1	2686.9	2690.5
52.5°	2328.7	2357.3	2350.1	2357.3	2339.5	2332.3	2335.8
55°	1995.5	2009.8	2009.8	2009.8	1988.4	1988.4	1988.4
57.5°	1655.1	1658.8	1651.6	1655.1	1651.6	1630.1	1626.5
60°	1343.5	1343.5	1339.8	1343.5	1332.8	1322.0	1322.0
62.5°	1049.6	1056.9	1071.2	1056.9	1049.6	1056.9	1046.1
65°	784.6	799.0	795.3	802.5	799.0	799.0	791.7
67.5°	591.2	594.7	598.3	601.9	601.9	601.9	601.9
70°	433.5	444.3	440.6	440.6	440.6	440.6	462.1
72.5°	290.2	304.5	301.0	308.0	308.0	315.3	308.0
75°	197.0	211.3	204.2	215.0	211.3	204.2	222.1
77.5°	132.6	139.8	143.3	146.9	143.3	139.8	143.3
80°	93.2	100.3	96.7	100.3	100.3	100.3	104.0
82.5°	57.4	68.1	64.4	68.1	64.4	68.1	68.1
85°	39.4	43.1	35.8	43.1	39.4	39.4	46.6
87.5°	25.1	21.5	21.5	25.1	21.5	25.1	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)