

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: P249057

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249057
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: LSR8B80D010 EC8B80950 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7638.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

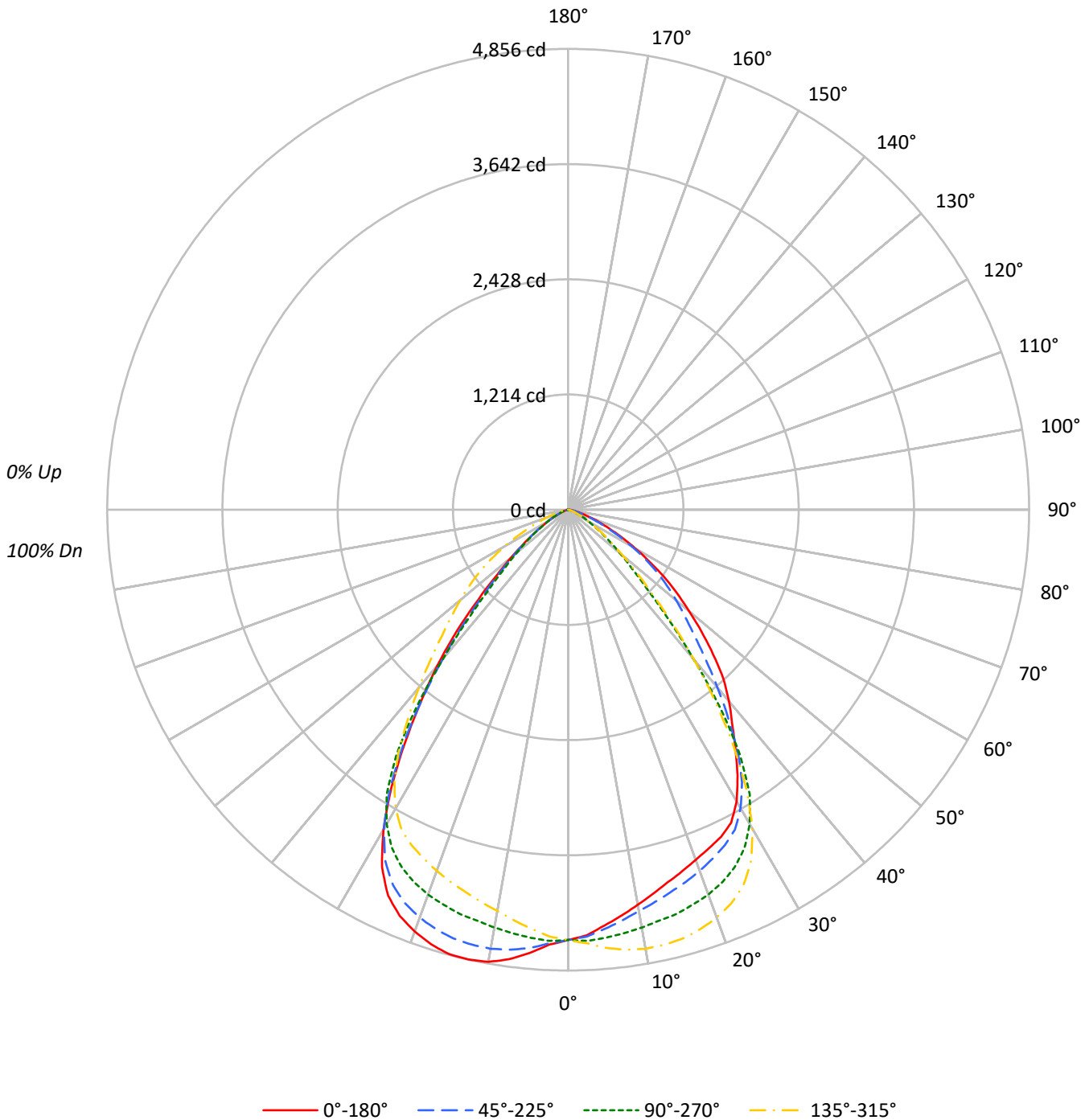
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	139824	139824	139824	139824
5°	136111	140154	145159	140154
10°	132346	139971	151478	139971
15°	129701	140801	154794	140801
20°	128820	141608	155193	141608
25°	129496	141323	152700	141323
30°	126293	136149	138596	136149
35°	115519	118767	112688	118767
40°	106061	82617	86276	82617
45°	94239	50403	58318	50403
50°	79764	33667	37390	33667
55°	66062	22972	24284	22972
60°	50387	15295	15430	15295
65°	35702	9529	8727	9529
70°	25750	6383	5788	6383
75°	16346	3169	2633	3169
80°	11401	2362	1953	2362
85°	10190	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	5.7
10°-20°	1249.8	16.4
20°-30°	1892.5	24.8
30°-40°	1896.7	24.8
40°-50°	1191.0	15.6
50°-60°	634.7	8.3
60°-70°	261.0	3.4
70°-80°	69.0	0.9
80°-90°	11.7	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°	3573.9	46.8
0°-40°	5470.6	71.6
0°-60°	7296.4	95.5
0°-90°	7638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7638.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4534	4534	4534	4534	4534	
5°	4397	4528	4690	4528	4397	415
15°	4063	4410	4849	4410	4063	1149
25°	3806	4154	4488	4154	3806	1746
35°	3069	3155	2994	3155	3069	1923
45°	2161	1156	1337	1156	2161	1662
55°	1229	427	452	427	1229	1096
65°	489	131	120	131	489	508
75°	137	27	22	27	137	155
85°	29	0	2	0	29	32
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°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4488.0	4483.5	4481.3	4485.8	4488.0	4496.8	4494.6	4499.0	4499.0	4501.3	4505.6
5°	4397.2	4394.9	4397.2	4397.2	4406.0	4414.9	4412.7	4419.3	4423.7	4434.8	4439.2
7.5°	4313.1	4313.1	4310.8	4319.6	4324.1	4337.4	4335.1	4346.2	4352.9	4363.9	4379.4
10°	4226.7	4226.7	4228.9	4235.5	4237.8	4257.7	4257.7	4273.2	4282.0	4293.1	4313.1
12.5°	4142.6	4142.6	4155.9	4151.4	4160.2	4175.7	4182.4	4197.9	4211.2	4233.3	4253.3
15°	4062.8	4062.8	4067.3	4078.3	4085.0	4104.9	4116.0	4133.7	4149.2	4171.4	4200.2
17.5°	3994.2	3992.0	3994.2	4007.5	4020.8	4038.5	4047.3	4069.5	4085.0	4113.8	4140.4
20°	3925.6	3930.0	3930.0	3941.1	3949.9	3972.1	3980.9	4005.3	4023.0	4049.5	4080.6
22.5°	3865.8	3863.6	3863.6	3879.1	3885.8	3905.6	3914.5	3936.6	3956.6	3978.7	4007.5
25°	3806.0	3801.5	3810.5	3812.7	3817.0	3839.2	3845.8	3861.3	3881.3	3901.2	3930.0
27.5°	3717.4	3713.1	3715.2	3724.1	3730.7	3748.4	3752.9	3768.4	3783.9	3801.5	3826.0
30°	3546.9	3542.5	3540.4	3555.8	3562.5	3575.7	3582.4	3609.0	3613.4	3633.3	3651.0
32.5°	3321.1	3318.9	3323.4	3336.6	3343.2	3361.0	3369.8	3385.3	3396.4	3407.5	3425.2
35°	3068.7	3064.3	3068.7	3082.0	3082.0	3097.5	3104.2	3110.8	3108.6	3110.8	3106.4
37.5°	2834.1	2831.8	2834.1	2840.6	2834.1	2840.6	2834.1	2820.8	2796.4	2769.8	2743.2
40°	2634.8	2636.9	2623.7	2632.6	2608.1	2603.8	2579.4	2546.2	2497.5	2444.4	2369.1
42.5°	2422.2	2415.6	2406.7	2411.1	2391.3	2375.7	2335.8	2293.8	2231.8	2143.3	2052.4
45°	2161.0	2158.8	2154.3	2152.1	2138.8	2123.3	2090.1	2041.4	1972.8	1882.0	1773.5
47.5°	1906.3	1899.7	1899.7	1901.9	1886.4	1884.2	1857.6	1815.6	1755.8	1667.2	1554.3
50°	1662.7	1660.5	1665.0	1673.8	1662.7	1658.4	1640.7	1611.9	1558.7	1483.5	1377.1
52.5°	1443.6	1441.4	1445.8	1456.9	1452.4	1456.9	1439.2	1417.0	1381.6	1308.5	1215.5
55°	1228.8	1228.8	1228.8	1242.1	1242.1	1242.1	1233.2	1220.0	1186.7	1133.6	1047.3
57.5°	1005.2	1007.4	1020.7	1022.9	1020.7	1025.2	1022.9	1009.6	987.5	949.9	883.4
60°	817.0	817.0	823.7	830.3	828.0	830.3	830.3	823.7	801.5	770.5	717.4
62.5°	646.5	653.2	648.7	653.2	662.0	653.2	648.7	644.3	628.8	608.9	564.6
65°	489.3	493.8	493.8	495.9	491.5	493.8	484.9	478.3	469.4	447.3	418.5
67.5°	372.0	372.0	372.0	372.0	369.7	367.5	365.4	358.7	343.2	334.4	303.3
70°	285.6	272.3	272.3	272.3	272.3	274.6	267.9	259.1	254.6	239.1	217.0
72.5°	190.4	194.8	190.4	190.4	186.0	188.2	179.4	174.9	170.5	161.7	148.4
75°	137.2	126.2	130.6	132.9	126.2	130.6	121.8	112.9	112.9	106.3	99.6
77.5°	88.6	86.4	88.6	90.8	88.6	86.4	81.9	77.5	77.5	75.3	68.6
80°	64.2	62.0	62.0	62.0	59.8	62.0	57.6	57.6	53.1	50.9	46.5
82.5°	42.1	42.1	39.8	42.1	39.8	42.1	35.5	35.5	35.5	33.2	28.8
85°	28.8	24.3	24.3	26.6	22.1	26.6	24.3	22.1	20.0	20.0	17.7
87.5°	13.3	15.5	13.3	15.5	13.3	13.3	15.5	13.3	13.3	8.8	8.8
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°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4512.3	4514.5	4514.5	4523.4	4527.8	4530.0	4530.0	4547.7	4541.1	4545.6	4549.9
5°	4448.1	4461.3	4465.8	4465.8	4490.1	4499.0	4507.8	4527.8	4530.0	4543.3	4558.8
7.5°	4386.1	4401.6	4410.5	4430.4	4445.9	4461.3	4488.0	4501.3	4514.5	4532.3	4552.1
10°	4326.3	4344.1	4361.7	4377.2	4401.6	4421.5	4439.2	4470.2	4485.8	4510.1	4536.6
12.5°	4268.8	4293.1	4308.6	4335.1	4361.7	4379.4	4406.0	4434.8	4459.2	4483.5	4514.5
15°	4217.8	4246.6	4264.3	4293.1	4321.9	4346.2	4375.0	4410.5	4428.2	4457.0	4485.8
17.5°	4162.4	4193.5	4215.7	4242.2	4277.6	4304.1	4328.6	4363.9	4386.1	4417.1	4450.3
20°	4104.9	4135.9	4162.4	4189.0	4224.5	4251.0	4279.8	4315.3	4339.6	4370.6	4397.2
22.5°	4036.3	4065.1	4093.8	4124.8	4160.2	4182.4	4215.7	4246.6	4273.2	4302.0	4328.6
25°	3947.7	3983.2	4005.3	4034.0	4062.8	4087.2	4122.6	4153.6	4175.7	4202.3	4226.7
27.5°	3843.6	3870.3	3887.9	3912.3	3941.1	3963.2	3989.7	4020.8	4043.0	4067.3	4085.0
30°	3666.5	3690.9	3706.4	3724.1	3752.9	3772.8	3795.0	3823.7	3839.2	3857.0	3872.4
32.5°	3434.0	3454.0	3462.8	3476.1	3496.1	3515.9	3533.7	3558.0	3564.7	3575.7	3575.7
35°	3097.5	3101.9	3099.7	3104.2	3113.0	3124.1	3139.5	3155.0	3163.9	3163.9	3157.3
37.5°	2703.4	2676.9	2648.1	2625.9	2619.3	2614.8	2623.7	2630.3	2639.2	2643.6	2632.6
40°	2293.8	2234.0	2169.8	2112.2	2072.4	2054.7	2048.0	2052.4	2052.4	2067.9	2067.9
42.5°	1941.8	1848.7	1753.6	1667.2	1609.6	1565.4	1545.4	1545.4	1547.6	1558.7	1565.4
45°	1649.5	1532.1	1421.4	1326.3	1246.5	1188.9	1162.4	1155.8	1153.6	1157.9	1173.4
47.5°	1425.9	1304.1	1188.9	1071.6	987.5	929.9	905.6	896.7	887.8	896.7	898.9
50°	1251.0	1124.8	1003.0	885.6	797.1	746.1	715.1	701.8	699.6	699.6	704.1
52.5°	1091.5	974.2	852.5	732.9	639.8	591.2	562.4	555.7	546.9	555.7	555.7
55°	941.0	823.7	704.1	591.2	513.6	462.8	436.2	427.3	422.9	429.5	429.5
57.5°	777.2	677.5	566.9	465.0	387.5	352.0	332.1	321.1	318.8	323.3	318.8
60°	637.7	553.5	458.3	365.4	305.6	267.9	252.4	248.0	243.5	248.0	248.0
62.5°	504.8	434.0	356.4	285.6	234.7	208.1	190.4	190.4	188.2	188.2	190.4
65°	374.2	318.8	263.5	203.7	163.9	143.9	130.6	130.6	128.4	130.6	128.4
67.5°	272.3	234.7	190.4	148.4	117.4	106.3	97.4	90.8	95.2	90.8	88.6
70°	199.3	168.2	137.2	112.9	90.8	79.7	73.1	70.8	66.4	66.4	66.4
72.5°	132.9	112.9	93.0	73.1	59.8	48.7	46.5	42.1	37.6	39.8	44.3
75°	88.6	75.3	66.4	53.1	39.8	39.8	26.6	26.6	22.1	26.6	20.0
77.5°	62.0	50.9	39.8	33.2	26.6	24.3	17.7	17.7	15.5	15.5	15.5
80°	44.3	37.6	28.8	24.3	17.7	17.7	15.5	13.3	11.0	11.0	13.3
82.5°	26.6	20.0	20.0	17.7	11.0	8.8	6.7	8.8	4.5	4.5	4.5
85°	15.5	13.3	11.0	6.7	4.5	4.5	2.2	0.0	2.2	2.2	0.0
87.5°	8.8	4.5	4.5	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.5
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°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4561.0	4558.8	4563.2	4563.2	4576.5	4574.3	4580.9	4580.9	4576.5	4578.7	4587.6
5°	4576.5	4583.2	4596.4	4607.5	4627.4	4636.3	4647.4	4658.5	4660.7	4667.3	4674.0
7.5°	4576.5	4598.7	4614.2	4634.0	4660.7	4676.2	4700.5	4720.4	4729.3	4740.3	4753.6
10°	4567.6	4589.8	4618.6	4640.7	4674.0	4698.3	4722.6	4753.6	4766.9	4784.6	4802.4
12.5°	4549.9	4574.3	4605.2	4634.0	4671.7	4693.8	4724.8	4753.6	4773.6	4797.9	4817.9
15°	4523.4	4552.1	4580.9	4609.7	4649.5	4676.2	4704.9	4738.1	4758.1	4784.6	4802.4
17.5°	4481.3	4512.3	4538.9	4565.4	4603.1	4634.0	4660.7	4691.6	4711.6	4733.7	4758.1
20°	4430.4	4459.2	4488.0	4510.1	4547.7	4574.3	4603.1	4631.9	4647.4	4651.8	4689.5
22.5°	4366.2	4386.1	4408.2	4443.7	4465.8	4490.1	4516.8	4543.3	4558.8	4583.2	4596.4
25°	4259.9	4279.8	4304.1	4319.6	4346.2	4366.2	4392.7	4421.5	4430.4	4448.1	4461.3
27.5°	4111.6	4122.6	4133.7	4146.9	4162.4	4173.6	4189.0	4202.3	4211.2	4220.0	4228.9
30°	3876.8	3876.8	3876.8	3868.0	3874.6	3881.3	3883.5	3881.3	3881.3	3879.1	3879.1
32.5°	3566.9	3549.2	3529.2	3511.6	3504.9	3496.1	3491.6	3484.9	3473.9	3467.3	3469.5
35°	3148.4	3108.6	3084.2	3062.1	3044.4	3031.1	3024.4	3017.8	3015.6	3006.8	2997.8
37.5°	2625.9	2597.1	2579.4	2566.1	2550.6	2537.3	2539.5	2541.8	2548.4	2544.0	2546.2
40°	2072.4	2065.7	2072.4	2056.9	2052.4	2056.9	2067.9	2083.5	2092.3	2101.2	2116.7
42.5°	1576.4	1587.5	1603.0	1603.0	1609.6	1618.5	1631.7	1656.2	1669.4	1684.9	1702.6
45°	1186.7	1200.0	1220.0	1226.6	1231.0	1242.1	1257.6	1277.5	1286.3	1299.7	1315.1
47.5°	914.4	923.3	934.3	945.4	956.4	960.9	976.4	976.4	987.5	996.4	1000.7
50°	712.9	721.8	730.6	737.3	741.7	748.4	752.8	759.4	761.6	766.1	768.3
52.5°	557.9	569.0	569.0	573.4	580.1	586.7	584.5	586.7	588.9	588.9	595.6
55°	436.2	436.2	442.8	442.8	447.3	445.0	447.3	447.3	447.3	447.3	449.5
57.5°	325.4	327.7	334.4	329.9	327.7	332.1	327.7	332.1	329.9	334.4	327.7
60°	250.2	250.2	252.4	252.4	254.6	254.6	254.6	252.4	252.4	250.2	250.2
62.5°	188.2	190.4	192.7	190.4	190.4	190.4	188.2	188.2	186.0	183.7	183.7
65°	126.2	124.0	128.4	124.0	126.2	126.2	124.0	126.2	119.6	121.8	119.6
67.5°	90.8	88.6	86.4	88.6	86.4	84.1	84.1	86.4	88.6	81.9	81.9
70°	59.8	62.0	59.8	62.0	64.2	64.2	62.0	59.8	62.0	57.6	59.8
72.5°	37.6	37.6	37.6	37.6	37.6	39.8	39.8	39.8	35.5	35.5	33.2
75°	17.7	24.3	20.0	17.7	24.3	24.3	22.1	22.1	20.0	20.0	20.0
77.5°	17.7	13.3	13.3	13.3	13.3	13.3	13.3	13.3	11.0	13.3	11.0
80°	8.8	8.8	8.8	6.7	8.8	8.8	11.0	8.8	8.8	6.7	11.0
82.5°	4.5	4.5	4.5	0.0	2.2	4.5	4.5	2.2	4.5	4.5	2.2
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: P249057

CATALOG NUMBER: LSR8B80D010 EC8B80950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4585.4	4583.2	4585.4	4587.6	4585.4	4583.2	4585.4	4587.6	4578.7	4576.5	4580.9
5°	4682.8	4682.8	4687.2	4689.5	4687.2	4682.8	4682.8	4674.0	4667.3	4660.7	4658.5
7.5°	4766.9	4771.4	4775.8	4777.9	4775.8	4771.4	4766.9	4753.6	4740.3	4729.3	4720.4
10°	4817.9	4824.5	4833.4	4837.7	4833.4	4824.5	4817.9	4802.4	4784.6	4766.9	4753.6
12.5°	4840.0	4846.7	4857.7	4855.5	4857.7	4846.7	4840.0	4817.9	4797.9	4773.6	4753.6
15°	4824.5	4833.4	4844.4	4848.8	4844.4	4833.4	4824.5	4802.4	4784.6	4758.1	4738.1
17.5°	4775.8	4789.1	4795.7	4802.4	4795.7	4789.1	4775.8	4758.1	4733.7	4711.6	4691.6
20°	4709.3	4718.3	4727.1	4729.3	4727.1	4718.3	4709.3	4689.5	4651.8	4647.4	4631.9
22.5°	4614.2	4620.8	4640.7	4634.0	4640.7	4620.8	4614.2	4596.4	4583.2	4558.8	4543.3
25°	4476.8	4483.5	4485.8	4488.0	4485.8	4483.5	4476.8	4461.3	4448.1	4430.4	4421.5
27.5°	4240.0	4240.0	4244.4	4246.6	4244.4	4240.0	4240.0	4228.9	4220.0	4211.2	4202.3
30°	3881.3	3881.3	3881.3	3892.4	3881.3	3881.3	3881.3	3879.1	3879.1	3881.3	3881.3
32.5°	3467.3	3462.8	3458.4	3462.8	3458.4	3462.8	3467.3	3469.5	3467.3	3473.9	3484.9
35°	2997.8	2995.6	3002.3	2993.5	3002.3	2995.6	2997.8	2997.8	3006.8	3015.6	3017.8
37.5°	2548.4	2544.0	2552.8	2544.0	2552.8	2544.0	2548.4	2546.2	2544.0	2548.4	2541.8
40°	2121.1	2125.5	2125.5	2143.3	2125.5	2125.5	2121.1	2116.7	2101.2	2092.3	2083.5
42.5°	1711.5	1724.8	1720.3	1733.6	1720.3	1724.8	1711.5	1702.6	1684.9	1669.4	1656.2
45°	1324.0	1332.9	1332.9	1337.3	1332.9	1332.9	1324.0	1315.1	1299.7	1286.3	1277.5
47.5°	1016.2	1016.2	1016.2	1018.5	1016.2	1016.2	1016.2	1000.7	996.4	987.5	976.4
50°	772.7	774.9	777.2	779.4	777.2	774.9	772.7	768.3	766.1	761.6	759.4
52.5°	593.4	595.6	591.2	595.6	591.2	595.6	593.4	595.6	588.9	588.9	586.7
55°	449.5	447.3	449.5	451.7	449.5	447.3	449.5	449.5	447.3	447.3	447.3
57.5°	329.9	325.4	325.4	325.4	325.4	325.4	329.9	327.7	334.4	329.9	332.1
60°	245.8	248.0	248.0	250.2	248.0	248.0	245.8	250.2	250.2	252.4	252.4
62.5°	181.5	188.2	183.7	188.2	183.7	188.2	181.5	183.7	183.7	186.0	188.2
65°	117.4	117.4	117.4	119.6	117.4	117.4	117.4	119.6	121.8	119.6	126.2
67.5°	79.7	81.9	86.4	84.1	86.4	81.9	79.7	81.9	81.9	88.6	86.4
70°	64.2	57.6	57.6	64.2	57.6	57.6	64.2	59.8	57.6	62.0	59.8
72.5°	37.6	33.2	37.6	37.6	37.6	33.2	37.6	33.2	35.5	35.5	39.8
75°	20.0	17.7	15.5	22.1	15.5	17.7	20.0	20.0	20.0	20.0	22.1
77.5°	13.3	11.0	15.5	15.5	15.5	11.0	13.3	11.0	13.3	11.0	13.3
80°	6.7	8.8	6.7	11.0	6.7	8.8	6.7	11.0	6.7	8.8	8.8
82.5°	2.2	4.5	4.5	4.5	4.5	4.5	2.2	2.2	4.5	4.5	2.2
85°	0.0	4.5	2.2	2.2	2.2	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P249057

CATALOG NUMBER: LSR8B80D010 EC8B80950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4580.9	4574.3	4576.5	4563.2	4563.2	4558.8	4561.0	4549.9	4545.6	4541.1	4547.7
5°	4647.4	4636.3	4627.4	4607.5	4596.4	4583.2	4576.5	4558.8	4543.3	4530.0	4527.8
7.5°	4700.5	4676.2	4660.7	4634.0	4614.2	4598.7	4576.5	4552.1	4532.3	4514.5	4501.3
10°	4722.6	4698.3	4674.0	4640.7	4618.6	4589.8	4567.6	4536.6	4510.1	4485.8	4470.2
12.5°	4724.8	4693.8	4671.7	4634.0	4605.2	4574.3	4549.9	4514.5	4483.5	4459.2	4434.8
15°	4704.9	4676.2	4649.5	4609.7	4580.9	4552.1	4523.4	4485.8	4457.0	4428.2	4410.5
17.5°	4660.7	4634.0	4603.1	4565.4	4538.9	4512.3	4481.3	4450.3	4417.1	4386.1	4363.9
20°	4603.1	4574.3	4547.7	4510.1	4488.0	4459.2	4430.4	4397.2	4370.6	4339.6	4315.3
22.5°	4516.8	4490.1	4465.8	4443.7	4408.2	4386.1	4366.2	4328.6	4302.0	4273.2	4246.6
25°	4392.7	4366.2	4346.2	4319.6	4304.1	4279.8	4259.9	4226.7	4202.3	4175.7	4153.6
27.5°	4189.0	4173.6	4162.4	4146.9	4133.7	4122.6	4111.6	4085.0	4067.3	4043.0	4020.8
30°	3883.5	3881.3	3874.6	3868.0	3876.8	3876.8	3876.8	3872.4	3857.0	3839.2	3823.7
32.5°	3491.6	3496.1	3504.9	3511.6	3529.2	3549.2	3566.9	3575.7	3575.7	3564.7	3558.0
35°	3024.4	3031.1	3044.4	3062.1	3084.2	3108.6	3148.4	3157.3	3163.9	3163.9	3155.0
37.5°	2539.5	2537.3	2550.6	2566.1	2579.4	2597.1	2625.9	2632.6	2643.6	2639.2	2630.3
40°	2067.9	2056.9	2052.4	2056.9	2072.4	2065.7	2072.4	2067.9	2067.9	2052.4	2052.4
42.5°	1631.7	1618.5	1609.6	1603.0	1603.0	1587.5	1576.4	1565.4	1558.7	1547.6	1545.4
45°	1257.6	1242.1	1231.0	1226.6	1220.0	1200.0	1186.7	1173.4	1157.9	1153.6	1155.8
47.5°	976.4	960.9	956.4	945.4	934.3	923.3	914.4	898.9	896.7	887.8	896.7
50°	752.8	748.4	741.7	737.3	730.6	721.8	712.9	704.1	699.6	699.6	701.8
52.5°	584.5	586.7	580.1	573.4	569.0	569.0	557.9	555.7	555.7	546.9	555.7
55°	447.3	445.0	447.3	442.8	442.8	436.2	436.2	429.5	429.5	422.9	427.3
57.5°	327.7	332.1	327.7	329.9	334.4	327.7	325.4	318.8	323.3	318.8	321.1
60°	254.6	254.6	254.6	252.4	252.4	250.2	250.2	248.0	248.0	243.5	248.0
62.5°	188.2	190.4	190.4	190.4	192.7	190.4	188.2	190.4	188.2	188.2	190.4
65°	124.0	126.2	126.2	124.0	128.4	124.0	126.2	128.4	130.6	128.4	130.6
67.5°	84.1	84.1	86.4	88.6	86.4	88.6	90.8	88.6	90.8	95.2	90.8
70°	62.0	64.2	64.2	62.0	59.8	62.0	59.8	66.4	66.4	66.4	70.8
72.5°	39.8	39.8	37.6	37.6	37.6	37.6	37.6	44.3	39.8	37.6	42.1
75°	22.1	24.3	24.3	17.7	20.0	24.3	17.7	20.0	26.6	22.1	26.6
77.5°	13.3	13.3	13.3	13.3	13.3	13.3	17.7	15.5	15.5	15.5	17.7
80°	11.0	8.8	8.8	6.7	8.8	8.8	8.8	13.3	11.0	11.0	13.3
82.5°	4.5	4.5	2.2	0.0	4.5	4.5	4.5	4.5	4.5	4.5	8.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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: P249057

CATALOG NUMBER: LSR8B80D010 EC8B80950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4530.0	4530.0	4527.8	4523.4	4514.5	4514.5	4512.3	4505.6	4501.3	4499.0	4499.0
5°	4507.8	4499.0	4490.1	4465.8	4465.8	4461.3	4448.1	4439.2	4434.8	4423.7	4419.3
7.5°	4488.0	4461.3	4445.9	4430.4	4410.5	4401.6	4386.1	4379.4	4363.9	4352.9	4346.2
10°	4439.2	4421.5	4401.6	4377.2	4361.7	4344.1	4326.3	4313.1	4293.1	4282.0	4273.2
12.5°	4406.0	4379.4	4361.7	4335.1	4308.6	4293.1	4268.8	4253.3	4233.3	4211.2	4197.9
15°	4375.0	4346.2	4321.9	4293.1	4264.3	4246.6	4217.8	4200.2	4171.4	4149.2	4133.7
17.5°	4328.6	4304.1	4277.6	4242.2	4215.7	4193.5	4162.4	4140.4	4113.8	4085.0	4069.5
20°	4279.8	4251.0	4224.5	4189.0	4162.4	4135.9	4104.9	4080.6	4049.5	4023.0	4005.3
22.5°	4215.7	4182.4	4160.2	4124.8	4093.8	4065.1	4036.3	4007.5	3978.7	3956.6	3936.6
25°	4122.6	4087.2	4062.8	4034.0	4005.3	3983.2	3947.7	3930.0	3901.2	3881.3	3861.3
27.5°	3989.7	3963.2	3941.1	3912.3	3887.9	3870.3	3843.6	3826.0	3801.5	3783.9	3768.4
30°	3795.0	3772.8	3752.9	3724.1	3706.4	3690.9	3666.5	3651.0	3633.3	3613.4	3609.0
32.5°	3533.7	3515.9	3496.1	3476.1	3462.8	3454.0	3434.0	3425.2	3407.5	3396.4	3385.3
35°	3139.5	3124.1	3113.0	3104.2	3099.7	3101.9	3097.5	3106.4	3110.8	3108.6	3110.8
37.5°	2623.7	2614.8	2619.3	2625.9	2648.1	2676.9	2703.4	2743.2	2769.8	2796.4	2820.8
40°	2048.0	2054.7	2072.4	2112.2	2169.8	2234.0	2293.8	2369.1	2444.4	2497.5	2546.2
42.5°	1545.4	1565.4	1609.6	1667.2	1753.6	1848.7	1941.8	2052.4	2143.3	2231.8	2293.8
45°	1162.4	1188.9	1246.5	1326.3	1421.4	1532.1	1649.5	1773.5	1882.0	1972.8	2041.4
47.5°	905.6	929.9	987.5	1071.6	1188.9	1304.1	1425.9	1554.3	1667.2	1755.8	1815.6
50°	715.1	746.1	797.1	885.6	1003.0	1124.8	1251.0	1377.1	1483.5	1558.7	1611.9
52.5°	562.4	591.2	639.8	732.9	852.5	974.2	1091.5	1215.5	1308.5	1381.6	1417.0
55°	436.2	462.8	513.6	591.2	704.1	823.7	941.0	1047.3	1133.6	1186.7	1220.0
57.5°	332.1	352.0	387.5	465.0	566.9	677.5	777.2	883.4	949.9	987.5	1009.6
60°	252.4	267.9	305.6	365.4	458.3	553.5	637.7	717.4	770.5	801.5	823.7
62.5°	190.4	208.1	234.7	285.6	356.4	434.0	504.8	564.6	608.9	628.8	644.3
65°	130.6	143.9	163.9	203.7	263.5	318.8	374.2	418.5	447.3	469.4	478.3
67.5°	97.4	106.3	117.4	148.4	190.4	234.7	272.3	303.3	334.4	343.2	358.7
70°	73.1	79.7	90.8	112.9	137.2	168.2	199.3	217.0	239.1	254.6	259.1
72.5°	46.5	48.7	59.8	73.1	93.0	112.9	132.9	148.4	161.7	170.5	174.9
75°	26.6	39.8	39.8	53.1	66.4	75.3	88.6	99.6	106.3	112.9	112.9
77.5°	17.7	24.3	26.6	33.2	39.8	50.9	62.0	68.6	75.3	77.5	77.5
80°	15.5	17.7	17.7	24.3	28.8	37.6	44.3	46.5	50.9	53.1	57.6
82.5°	6.7	8.8	11.0	17.7	20.0	20.0	26.6	28.8	33.2	35.5	35.5
85°	2.2	4.5	4.5	6.7	11.0	13.3	15.5	17.7	20.0	20.0	22.1
87.5°	2.2	2.2	0.0	2.2	4.5	4.5	8.8	8.8	8.8	13.3	13.3
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: P249057

CATALOG NUMBER: LSR8B80D010 EC8B80950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4	4534.4
2.5°	4494.6	4496.8	4488.0	4485.8	4481.3	4483.5	4488.0
5°	4412.7	4414.9	4406.0	4397.2	4397.2	4394.9	4397.2
7.5°	4335.1	4337.4	4324.1	4319.6	4310.8	4313.1	4313.1
10°	4257.7	4257.7	4237.8	4235.5	4228.9	4226.7	4226.7
12.5°	4182.4	4175.7	4160.2	4151.4	4155.9	4142.6	4142.6
15°	4116.0	4104.9	4085.0	4078.3	4067.3	4062.8	4062.8
17.5°	4047.3	4038.5	4020.8	4007.5	3994.2	3992.0	3994.2
20°	3980.9	3972.1	3949.9	3941.1	3930.0	3930.0	3925.6
22.5°	3914.5	3905.6	3885.8	3879.1	3863.6	3863.6	3865.8
25°	3845.8	3839.2	3817.0	3812.7	3810.5	3801.5	3806.0
27.5°	3752.9	3748.4	3730.7	3724.1	3715.2	3713.1	3717.4
30°	3582.4	3575.7	3562.5	3555.8	3540.4	3542.5	3546.9
32.5°	3369.8	3361.0	3343.2	3336.6	3323.4	3318.9	3321.1
35°	3104.2	3097.5	3082.0	3082.0	3068.7	3064.3	3068.7
37.5°	2834.1	2840.6	2834.1	2840.6	2834.1	2831.8	2834.1
40°	2579.4	2603.8	2608.1	2632.6	2623.7	2636.9	2634.8
42.5°	2335.8	2375.7	2391.3	2411.1	2406.7	2415.6	2422.2
45°	2090.1	2123.3	2138.8	2152.1	2154.3	2158.8	2161.0
47.5°	1857.6	1884.2	1886.4	1901.9	1899.7	1899.7	1906.3
50°	1640.7	1658.4	1662.7	1673.8	1665.0	1660.5	1662.7
52.5°	1439.2	1456.9	1452.4	1456.9	1445.8	1441.4	1443.6
55°	1233.2	1242.1	1242.1	1242.1	1228.8	1228.8	1228.8
57.5°	1022.9	1025.2	1020.7	1022.9	1020.7	1007.4	1005.2
60°	830.3	830.3	828.0	830.3	823.7	817.0	817.0
62.5°	648.7	653.2	662.0	653.2	648.7	653.2	646.5
65°	484.9	493.8	491.5	495.9	493.8	493.8	489.3
67.5°	365.4	367.5	369.7	372.0	372.0	372.0	372.0
70°	267.9	274.6	272.3	272.3	272.3	272.3	285.6
72.5°	179.4	188.2	186.0	190.4	190.4	194.8	190.4
75°	121.8	130.6	126.2	132.9	130.6	126.2	137.2
77.5°	81.9	86.4	88.6	90.8	88.6	86.4	88.6
80°	57.6	62.0	59.8	62.0	62.0	62.0	64.2
82.5°	35.5	42.1	39.8	42.1	39.8	42.1	42.1
85°	24.3	26.6	22.1	26.6	24.3	24.3	28.8
87.5°	15.5	13.3	13.3	15.5	13.3	15.5	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)