

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: P249763

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8159.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

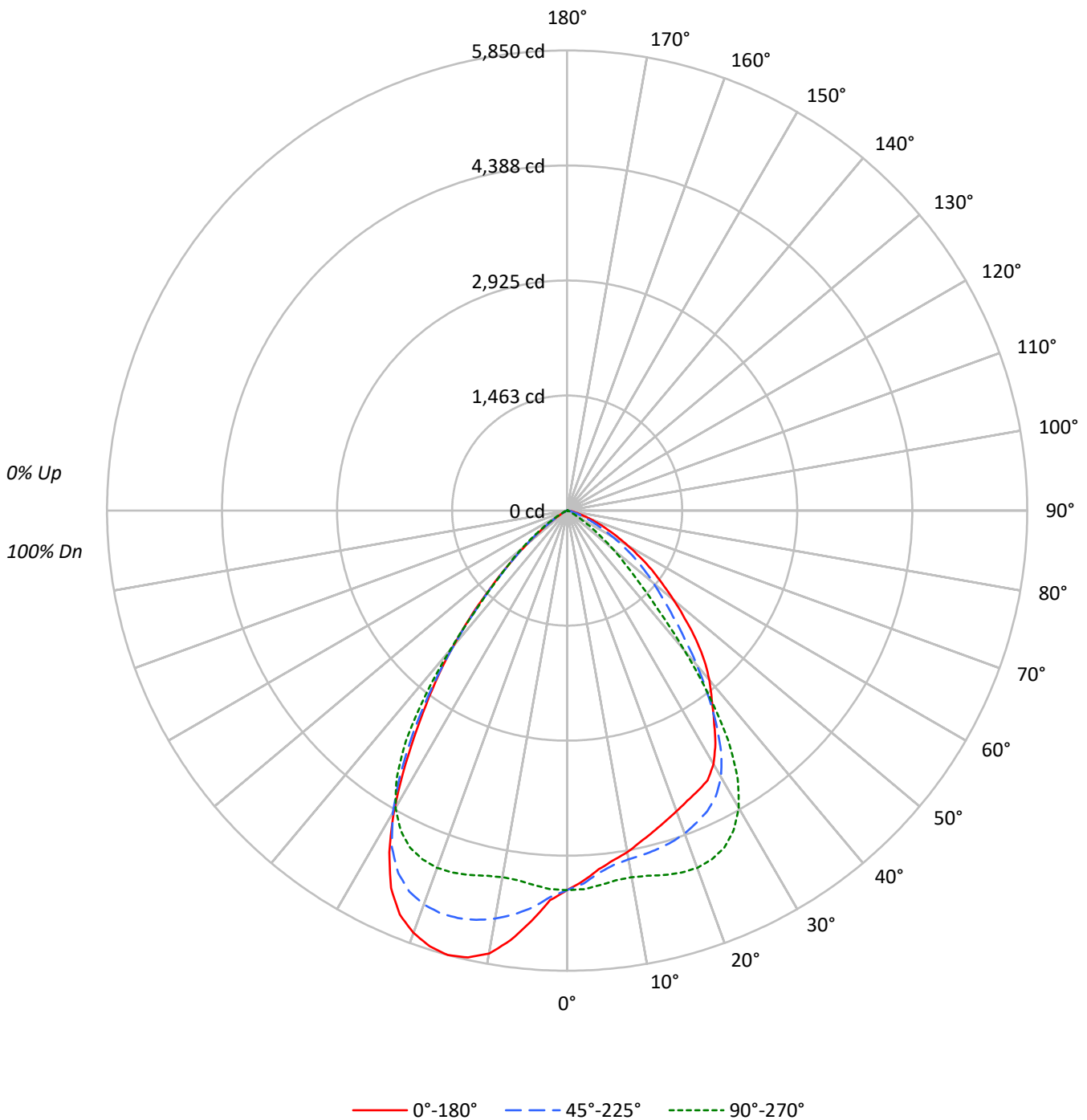
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148767	148767	148767
5°	141730	147939	162178
10°	138073	148168	179017
15°	134943	153079	186762
20°	133460	158610	187464
25°	133773	160852	180178
30°	132528	155327	156691
35°	122464	134427	122630
40°	113166	93200	90934
45°	100768	56238	58100
50°	84787	36229	32881
55°	70540	19876	15032
60°	55061	8616	4724
65°	40634	4276	2298
70°	28256	2642	1010
75°	17192	536	0
80°	12413	799	0
85°	7961	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.8	5.7
10°-20°	1388.1	17.0
20°-30°	2125.7	26.1
30°-40°	2083.9	25.5
40°-50°	1254.9	15.4
50°-60°	577.6	7.1
60°-70°	202.9	2.5
70°-80°	53.1	0.7
80°-90°	9.0	0.1
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°	3977.6	48.8
0°-40°	6061.5	74.3
0°-60°	7894.0	96.8
0°-90°	8159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8159.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4824	4824	4824	4824	4824	
5°	4579	4622	4779	5066	5239	432
15°	4227	4455	4795	5363	5850	1194
25°	3932	4216	4728	5084	5296	1811
35°	3253	3298	3571	3366	3258	2037
45°	2311	1903	1290	1299	1332	1772
55°	1312	1039	370	291	280	1171
65°	557	386	59	29	32	567
75°	144	83	4	0	0	175
85°	22	11	2	0	0	31
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°	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4
2.5°	4711.7	4716.2	4716.2	4716.2	4725.2	4727.6	4725.2	4727.6	4732.0	4747.8	4754.6
5°	4578.7	4571.9	4576.5	4574.2	4585.5	4592.3	4587.7	4594.5	4610.3	4621.6	4632.8
7.5°	4484.1	4484.1	4484.1	4488.5	4495.3	4508.8	4506.6	4511.1	4526.8	4542.6	4558.4
10°	4409.6	4407.4	4407.4	4418.6	4427.6	4443.4	4448.0	4461.5	4481.7	4502.1	4520.1
12.5°	4312.7	4315.0	4326.2	4337.5	4357.8	4382.6	4396.1	4414.2	4445.7	4479.5	4499.8
15°	4227.0	4229.3	4238.3	4260.8	4285.7	4315.0	4344.2	4373.5	4411.9	4454.7	4490.8
17.5°	4143.6	4145.8	4152.6	4177.5	4209.0	4247.4	4281.1	4319.5	4369.1	4418.6	4463.7
20°	4067.0	4064.7	4076.0	4098.5	4139.2	4175.2	4209.0	4254.1	4308.2	4369.1	4420.9
22.5°	3992.5	3992.5	4003.9	4026.4	4062.5	4098.5	4134.6	4181.9	4236.0	4294.7	4355.5
25°	3931.7	3929.4	3945.2	3956.5	3983.5	4019.6	4058.0	4096.3	4150.4	4215.8	4274.4
27.5°	3866.3	3864.1	3866.3	3879.9	3904.7	3931.7	3961.0	3994.9	4040.0	4094.1	4150.4
30°	3722.0	3724.3	3724.3	3735.6	3749.1	3778.4	3794.1	3828.0	3868.6	3913.7	3963.3
32.5°	3507.9	3510.1	3510.1	3514.7	3525.9	3539.4	3553.0	3577.8	3609.3	3647.6	3692.7
35°	3253.2	3253.2	3250.8	3253.2	3259.9	3259.9	3271.2	3259.9	3275.7	3298.3	3332.0
37.5°	3018.7	3014.1	3009.7	3005.1	2998.3	2987.1	2971.3	2944.2	2937.5	2928.5	2930.7
40°	2811.3	2809.0	2795.5	2784.2	2761.6	2734.6	2696.3	2649.0	2610.7	2565.6	2527.2
42.5°	2581.3	2579.0	2567.8	2547.5	2522.7	2482.1	2421.3	2358.2	2281.5	2213.9	2144.0
45°	2310.7	2317.5	2301.7	2279.2	2249.9	2211.6	2144.0	2067.3	1990.6	1902.7	1814.8
47.5°	2028.9	2026.7	2015.5	2001.9	1977.2	1938.8	1893.7	1810.3	1729.1	1648.0	1557.8
50°	1767.4	1758.4	1753.9	1740.4	1724.7	1693.1	1645.7	1578.0	1505.9	1429.3	1345.9
52.5°	1519.5	1519.5	1508.2	1499.2	1485.6	1460.9	1420.3	1366.2	1305.3	1233.1	1145.3
55°	1312.1	1307.6	1296.3	1285.0	1271.5	1255.7	1219.7	1174.6	1109.2	1039.3	962.6
57.5°	1091.2	1088.8	1084.4	1070.8	1064.1	1048.3	1007.7	962.6	906.3	845.4	782.3
60°	892.8	883.8	874.7	865.7	854.4	838.7	811.6	773.2	725.9	671.8	608.7
62.5°	714.7	728.2	701.1	701.1	678.6	665.1	640.3	617.7	568.1	518.5	464.4
65°	556.9	556.9	545.5	536.5	523.0	507.2	482.4	459.9	423.8	385.5	347.1
67.5°	426.1	423.8	412.6	403.6	392.2	383.2	365.2	338.1	311.1	279.6	247.9
70°	313.4	311.1	308.8	293.0	284.0	272.8	259.3	241.3	220.9	198.4	169.1
72.5°	225.4	225.4	218.7	211.9	202.9	193.8	180.4	169.1	151.1	135.3	115.0
75°	144.3	142.1	142.1	130.7	130.7	117.2	108.2	101.4	92.4	83.4	65.4
77.5°	103.7	101.4	99.2	94.6	90.2	85.6	78.9	69.9	63.1	54.1	47.3
80°	69.9	65.4	63.1	63.1	56.3	54.1	56.3	42.9	40.6	33.8	29.3
82.5°	42.9	42.9	40.6	40.6	38.3	36.1	29.3	29.3	27.1	24.8	20.3
85°	22.5	29.3	20.3	22.5	20.3	22.5	20.3	15.8	13.5	11.2	11.2
87.5°	13.5	9.0	9.0	13.5	11.2	9.0	9.0	9.0	6.8	4.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4
2.5°	4750.1	4765.9	4763.6	4783.9	4790.7	4806.4	4806.4	4817.7	4824.4	4840.2	4853.8
5°	4637.4	4662.1	4668.9	4693.7	4714.0	4738.8	4754.6	4779.3	4801.9	4835.8	4867.3
7.5°	4567.5	4587.7	4601.3	4630.6	4653.1	4680.1	4707.2	4741.0	4772.6	4813.2	4858.3
10°	4533.6	4560.7	4580.9	4610.3	4637.4	4666.7	4693.7	4732.0	4768.1	4820.0	4869.5
12.5°	4524.6	4556.2	4580.9	4621.6	4648.6	4680.1	4711.7	4754.6	4792.9	4847.0	4903.4
15°	4524.6	4567.5	4601.3	4646.4	4677.9	4718.5	4752.3	4795.1	4838.0	4894.3	4948.4
17.5°	4515.6	4567.5	4610.3	4662.1	4702.7	4743.3	4786.1	4826.8	4871.8	4926.0	4986.7
20°	4479.5	4544.9	4596.7	4657.6	4700.5	4745.6	4788.4	4833.4	4880.9	4937.2	4989.0
22.5°	4416.4	4493.1	4551.7	4617.0	4666.7	4711.7	4754.6	4799.7	4851.5	4905.6	4959.7
25°	4333.0	4405.1	4468.3	4535.8	4585.5	4635.0	4675.7	4727.6	4774.9	4826.8	4869.5
27.5°	4206.7	4283.4	4344.2	4414.2	4459.2	4506.6	4540.4	4583.3	4628.4	4671.1	4705.0
30°	4017.4	4087.3	4150.4	4213.5	4258.6	4292.4	4328.5	4362.3	4391.6	4420.9	4450.2
32.5°	3740.0	3803.2	3864.1	3922.7	3958.8	3988.1	4015.1	4035.4	4051.2	4067.0	4069.2
35°	3359.1	3410.9	3449.2	3501.1	3535.0	3562.0	3562.0	3571.0	3568.8	3562.0	3555.2
37.5°	2933.0	2953.3	2969.0	2989.3	2991.6	2991.6	2978.1	2966.8	2948.8	2944.2	2930.7
40°	2488.9	2461.8	2441.5	2414.5	2398.7	2364.8	2335.6	2315.3	2286.0	2281.5	2277.0
42.5°	2067.3	2004.2	1947.8	1900.5	1846.4	1799.0	1756.2	1724.7	1702.1	1699.8	1702.1
45°	1724.7	1652.5	1569.0	1503.7	1442.8	1384.2	1327.9	1289.6	1269.2	1264.7	1269.2
47.5°	1465.4	1382.0	1300.8	1226.4	1161.0	1095.6	1039.3	987.4	962.6	955.9	953.6
50°	1260.2	1174.6	1088.8	1012.2	940.1	874.7	804.8	755.2	723.7	712.4	703.4
52.5°	1059.6	983.0	895.0	816.1	743.9	667.3	595.2	538.8	507.2	493.8	484.7
55°	883.8	807.1	725.9	649.3	572.6	496.0	423.8	369.7	335.9	320.1	308.8
57.5°	705.6	633.5	563.6	487.0	423.8	349.5	277.3	229.9	200.6	182.6	173.6
60°	545.5	489.2	428.3	365.2	304.4	243.5	184.8	139.7	117.2	103.7	92.4
62.5°	412.6	365.2	324.6	270.5	223.2	171.3	126.3	90.2	69.9	58.6	54.1
65°	297.6	261.5	225.4	191.6	157.8	119.5	85.6	58.6	40.6	33.8	31.5
67.5°	211.9	182.6	155.5	133.0	108.2	85.6	60.9	40.6	31.5	27.1	24.8
70°	148.7	126.3	108.2	88.0	72.1	56.3	47.3	29.3	18.0	20.3	15.8
72.5°	99.2	83.4	74.4	60.9	49.6	40.6	29.3	20.3	20.3	15.8	13.5
75°	54.1	49.6	38.3	29.3	24.8	22.5	9.0	4.5	2.2	6.8	2.2
77.5°	38.3	33.8	29.3	24.8	20.3	15.8	9.0	9.0	6.8	9.0	4.5
80°	24.8	20.3	18.0	18.0	11.2	6.8	4.5	4.5	6.8	2.2	2.2
82.5°	15.8	13.5	11.2	11.2	11.2	6.8	6.8	6.8	6.8	4.5	4.5
85°	9.0	6.8	4.5	4.5	2.2	4.5	0.0	2.2	2.2	0.0	0.0
87.5°	4.5	2.2	2.2	2.2	2.2	0.0	0.0	2.2	0.0	2.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4	4824.4
2.5°	4862.8	4871.8	4883.1	4892.1	4912.4	4916.9	4926.0	4935.0	4941.7	4948.4	4950.7
5°	4894.3	4928.2	4959.7	4993.5	5036.4	5065.7	5099.5	5128.8	5158.1	5182.9	5200.9
7.5°	4903.4	4955.2	5002.6	5061.2	5124.3	5178.4	5234.8	5291.1	5349.7	5394.8	5433.2
10°	4921.4	4984.5	5045.4	5115.2	5196.4	5268.5	5338.4	5412.8	5487.3	5550.4	5606.8
12.5°	4953.0	5022.8	5088.2	5164.9	5248.3	5329.4	5406.1	5489.5	5568.5	5638.3	5701.4
15°	5004.8	5070.2	5133.3	5205.4	5288.9	5363.3	5439.9	5521.0	5600.0	5672.1	5730.7
17.5°	5038.6	5099.5	5162.6	5228.0	5297.9	5365.5	5437.6	5509.8	5581.9	5647.3	5701.4
20°	5038.6	5097.2	5144.6	5203.2	5268.5	5327.2	5385.8	5448.9	5512.0	5566.1	5618.0
22.5°	4998.1	5054.4	5090.5	5135.6	5191.9	5241.5	5273.1	5343.0	5390.3	5437.6	5475.9
25°	4903.4	4944.0	4973.3	5004.8	5049.9	5083.7	5110.8	5151.3	5198.7	5216.8	5243.8
27.5°	4732.0	4761.3	4777.1	4783.9	4806.4	4824.4	4829.0	4847.0	4867.3	4871.8	4883.1
30°	4461.5	4463.7	4457.0	4454.7	4443.4	4430.0	4427.6	4425.4	4416.4	4407.4	4409.6
32.5°	4053.4	4042.2	4015.1	3985.9	3956.5	3925.0	3906.9	3884.3	3870.8	3857.3	3841.6
35°	3525.9	3498.9	3460.6	3424.5	3390.7	3365.8	3325.3	3311.7	3298.3	3280.2	3275.7
37.5°	2905.9	2890.2	2854.1	2827.1	2809.0	2797.7	2777.4	2764.0	2764.0	2757.2	2752.6
40°	2265.6	2261.2	2247.6	2254.4	2245.4	2249.9	2247.6	2243.1	2254.4	2254.4	2259.0
42.5°	1699.8	1702.1	1708.9	1713.3	1726.9	1729.1	1740.4	1740.4	1747.2	1753.9	1758.4
45°	1264.7	1273.8	1273.8	1282.8	1296.3	1298.6	1303.0	1305.3	1309.8	1321.1	1325.6
47.5°	949.1	951.3	951.3	953.6	958.1	962.6	960.4	962.6	969.4	964.9	969.4
50°	701.1	703.4	696.6	689.8	696.6	696.6	694.4	687.6	694.4	685.4	689.8
52.5°	478.0	475.7	468.9	471.2	466.7	464.4	464.4	459.9	459.9	459.9	450.9
55°	302.1	302.1	297.6	297.6	295.4	290.8	288.6	286.3	284.0	281.8	281.8
57.5°	169.1	171.3	164.6	162.3	164.6	162.3	157.8	157.8	157.8	151.1	155.5
60°	92.4	90.2	88.0	85.6	83.4	85.6	85.6	81.2	81.2	81.2	83.4
62.5°	49.6	49.6	47.3	47.3	45.1	45.1	49.6	42.9	45.1	42.9	45.1
65°	27.1	33.8	24.8	24.8	31.5	29.3	27.1	27.1	29.3	24.8	27.1
67.5°	29.3	20.3	18.0	20.3	18.0	18.0	18.0	22.5	20.3	15.8	20.3
70°	13.5	15.8	15.8	11.2	18.0	9.0	15.8	9.0	13.5	11.2	13.5
72.5°	13.5	13.5	13.5	9.0	13.5	9.0	11.2	11.2	9.0	9.0	13.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.5	4.5	2.2	2.2	2.2	2.2	4.5	4.5	4.5	0.0	2.2
80°	4.5	4.5	0.0	2.2	0.0	0.0	2.2	0.0	2.2	0.0	4.5
82.5°	2.2	4.5	2.2	2.2	4.5	4.5	4.5	2.2	2.2	2.2	2.2
85°	0.0	2.2	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	2.2
87.5°	0.0	2.2	0.0	0.0	0.0	0.0	2.2	2.2	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: P249763

CATALOG NUMBER: LSR8B80D010 EC8B80950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4824.4	4824.4	4824.4	4824.4
2.5°	4953.0	4955.2	4959.7	4957.5
5°	5214.4	5232.5	5241.5	5239.3
7.5°	5460.2	5491.8	5509.8	5509.8
10°	5649.6	5685.7	5712.7	5717.2
12.5°	5751.0	5791.6	5827.7	5818.6
15°	5780.3	5820.9	5856.9	5850.2
17.5°	5746.5	5787.1	5814.2	5809.6
20°	5654.1	5687.9	5715.0	5712.7
22.5°	5509.8	5539.1	5561.7	5559.4
25°	5266.3	5286.6	5304.6	5295.6
27.5°	4892.1	4898.9	4910.1	4896.6
30°	4393.9	4398.3	4402.9	4400.6
32.5°	3834.8	3832.5	3828.0	3823.5
35°	3268.9	3268.9	3271.2	3257.6
37.5°	2754.9	2752.6	2759.4	2752.6
40°	2263.4	2261.2	2270.2	2259.0
42.5°	1765.2	1772.0	1774.2	1774.2
45°	1327.9	1330.1	1332.3	1332.3
47.5°	969.4	971.6	983.0	969.4
50°	685.4	687.6	689.8	685.4
52.5°	453.1	455.4	453.1	446.3
55°	277.3	279.6	279.6	279.6
57.5°	148.7	151.1	151.1	148.7
60°	81.2	78.9	81.2	76.6
62.5°	42.9	47.3	45.1	40.6
65°	27.1	27.1	27.1	31.5
67.5°	22.5	18.0	20.3	15.8
70°	13.5	15.8	15.8	11.2
72.5°	11.2	11.2	11.2	13.5
75°	0.0	0.0	0.0	0.0
77.5°	4.5	4.5	4.5	2.2
80°	2.2	0.0	2.2	0.0
82.5°	2.2	2.2	4.5	2.2
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)