

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: P248995

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248995
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: LSR8B90D010 EC8B90835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9329.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

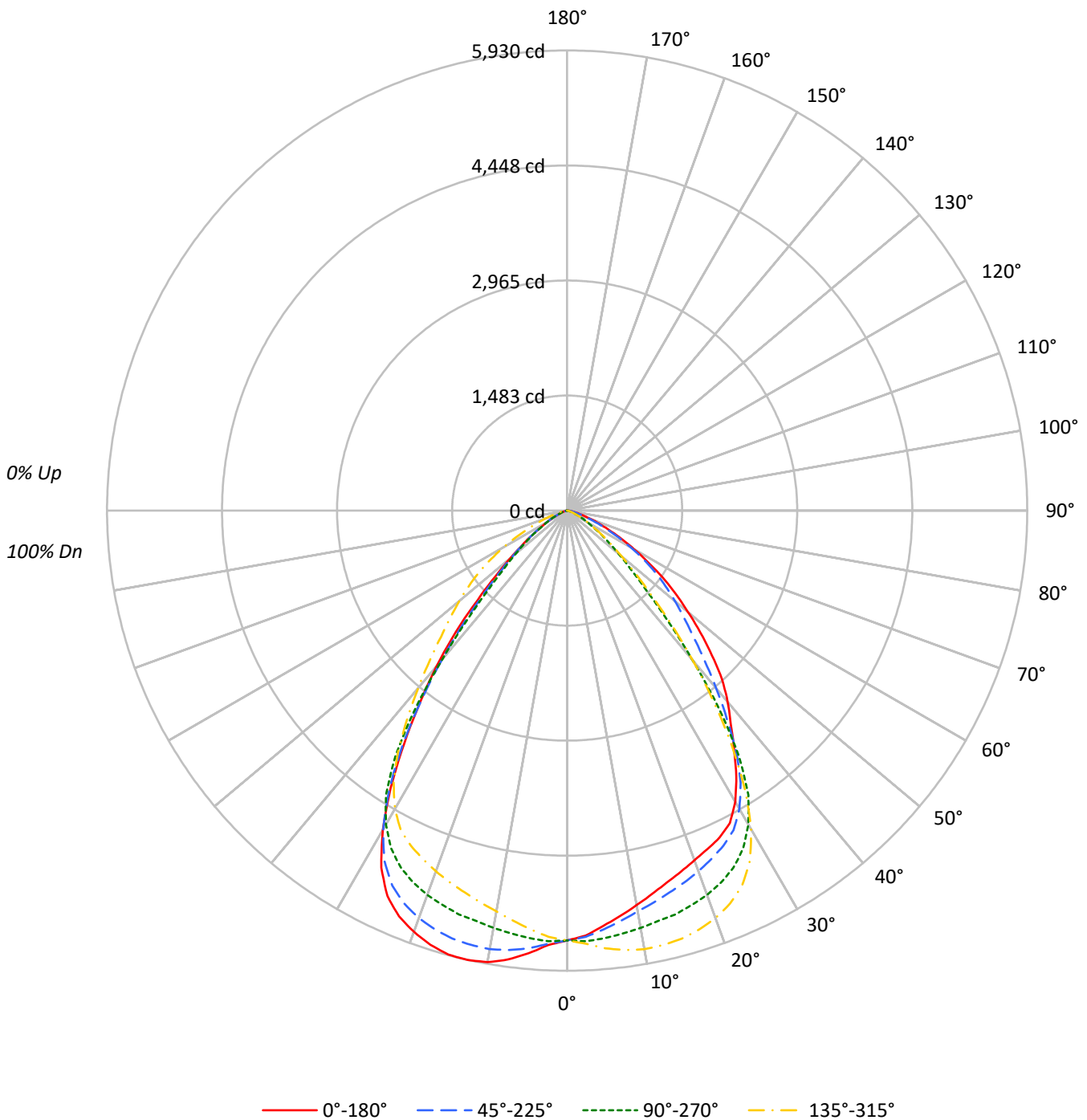
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248995

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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°	170781	170781	170781	170781
5°	166245	171182	177296	171182
10°	161645	170960	185016	170960
15°	158417	171975	189067	171975
20°	157340	172956	189551	172956
25°	158164	172611	186507	172611
30°	154255	166290	169281	166290
35°	141094	145062	137635	145062
40°	129541	100909	105377	100909
45°	115102	61559	71231	61559
50°	97423	41122	45665	41122
55°	80691	28058	29660	28058
60°	61543	18681	18841	18681
65°	43604	11638	10653	11638
70°	31448	7799	7078	7799
75°	19968	3872	3217	3872
80°	13940	2895	2397	2895
85°	12454	0	955	0



TEST NUMBER: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	5.7
10°-20°	1526.5	16.4
20°-30°	2311.5	24.8
30°-40°	2316.7	24.8
40°-50°	1454.7	15.6
50°-60°	775.2	8.3
60°-70°	318.8	3.4
70°-80°	84.2	0.9
80°-90°	14.3	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°	4365.1	46.8
0°-40°	6681.8	71.6
0°-60°	8911.7	95.5
0°-90°	9329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9329.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5538	5538	5538	5538	5538	
5°	5371	5530	5728	5530	5371	506
15°	4962	5387	5922	5387	4962	1403
25°	4649	5073	5482	5073	4649	2132
35°	3748	3854	3656	3854	3748	2348
45°	2639	1412	1633	1412	2639	2030
55°	1501	522	552	522	1501	1338
65°	598	160	146	160	598	620
75°	168	32	27	32	168	190
85°	35	0	3	0	35	39
90°	0	0	0	0	0	



TEST NUMBER: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5481.6	5476.1	5473.4	5478.9	5481.6	5492.4	5489.7	5495.0	5495.0	5497.8	5503.2
5°	5370.7	5367.9	5370.7	5370.7	5381.5	5392.3	5389.6	5397.7	5403.1	5416.7	5422.0
7.5°	5268.0	5268.0	5265.2	5276.0	5281.4	5297.7	5294.9	5308.5	5316.6	5330.1	5349.0
10°	5162.4	5162.4	5165.1	5173.2	5176.0	5200.3	5200.3	5219.2	5230.0	5243.6	5268.0
12.5°	5059.7	5059.7	5076.0	5070.5	5081.3	5100.2	5108.3	5127.3	5143.5	5170.6	5194.9
15°	4962.3	4962.3	4967.8	4981.2	4989.4	5013.7	5027.2	5048.9	5067.8	5094.9	5130.0
17.5°	4878.5	4875.8	4878.5	4894.7	4911.0	4932.6	4943.4	4970.4	4989.4	5024.5	5057.0
20°	4794.7	4800.1	4800.1	4813.6	4824.4	4851.4	4862.2	4892.1	4913.7	4946.1	4984.0
22.5°	4721.7	4719.0	4719.0	4737.9	4746.0	4770.3	4781.1	4808.1	4832.5	4859.6	4894.7
25°	4648.6	4643.2	4654.1	4656.8	4662.1	4689.1	4697.3	4716.2	4740.6	4765.0	4800.1
27.5°	4540.4	4535.1	4537.8	4548.6	4556.7	4578.3	4583.7	4602.7	4621.6	4643.2	4673.0
30°	4332.2	4326.8	4324.2	4343.1	4351.2	4367.4	4375.5	4408.0	4413.3	4437.7	4459.3
32.5°	4056.4	4053.7	4059.1	4075.3	4083.4	4105.1	4115.9	4134.8	4148.3	4161.9	4183.5
35°	3748.1	3742.7	3748.1	3764.4	3764.4	3783.3	3791.4	3799.4	3796.8	3799.4	3794.1
37.5°	3461.5	3458.7	3461.5	3469.5	3461.5	3469.5	3461.5	3445.3	3415.5	3383.0	3350.5
40°	3218.1	3220.7	3204.6	3215.4	3185.6	3180.2	3150.5	3109.9	3050.4	2985.6	2893.6
42.5°	2958.5	2950.4	2939.6	2944.9	2920.7	2901.6	2853.0	2801.7	2725.9	2617.8	2506.8
45°	2639.4	2636.7	2631.3	2628.6	2612.3	2593.4	2552.8	2493.3	2409.5	2298.7	2166.1
47.5°	2328.4	2320.3	2320.3	2322.9	2304.0	2301.3	2268.8	2217.5	2144.5	2036.3	1898.4
50°	2030.8	2028.2	2033.6	2044.4	2030.8	2025.5	2003.9	1968.7	1903.8	1811.9	1682.0
52.5°	1763.1	1760.5	1765.9	1779.4	1773.9	1779.4	1757.8	1730.8	1687.5	1598.2	1484.7
55°	1500.9	1500.9	1500.9	1517.0	1517.0	1517.0	1506.2	1490.1	1449.5	1384.6	1279.2
57.5°	1227.7	1230.4	1246.7	1249.3	1246.7	1252.1	1249.3	1233.1	1206.2	1160.2	1079.0
60°	997.9	997.9	1006.0	1014.1	1011.4	1014.1	1014.1	1006.0	979.0	941.1	876.2
62.5°	789.6	797.8	792.3	797.8	808.6	797.8	792.3	787.0	768.0	743.7	689.6
65°	597.6	603.1	603.1	605.7	600.3	603.1	592.3	584.2	573.4	546.3	511.1
67.5°	454.4	454.4	454.4	454.4	451.6	448.9	446.2	438.1	419.2	408.4	370.4
70°	348.8	332.6	332.6	332.6	332.6	335.4	327.3	316.5	311.0	292.1	265.0
72.5°	232.5	238.0	232.5	232.5	227.2	229.9	219.1	213.6	208.3	197.5	181.2
75°	167.6	154.2	159.5	162.3	154.2	159.5	148.7	137.9	137.9	129.8	121.7
77.5°	108.2	105.5	108.2	110.9	108.2	105.5	100.1	94.6	94.6	91.9	83.8
80°	78.5	75.7	75.7	75.7	73.0	75.7	70.3	70.3	64.9	62.2	56.8
82.5°	51.4	51.4	48.6	51.4	48.6	51.4	43.3	43.3	43.3	40.5	35.2
85°	35.2	29.7	29.7	32.5	27.0	32.5	29.7	27.0	24.4	24.4	21.6
87.5°	16.3	18.9	16.3	18.9	16.3	16.3	18.9	16.3	16.3	10.8	10.8
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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5511.3	5514.0	5514.0	5524.9	5530.2	5532.9	5532.9	5554.6	5546.5	5551.9	5557.3
5°	5432.9	5449.1	5454.5	5454.5	5484.2	5495.0	5505.8	5530.2	5532.9	5549.1	5568.1
7.5°	5357.1	5376.0	5387.0	5411.2	5430.1	5449.1	5481.6	5497.8	5514.0	5535.7	5559.9
10°	5284.1	5305.8	5327.4	5346.3	5376.0	5400.4	5422.0	5459.9	5478.9	5508.6	5541.0
12.5°	5213.9	5243.6	5262.5	5294.9	5327.4	5349.0	5381.5	5416.7	5446.4	5476.1	5514.0
15°	5151.6	5186.8	5208.4	5243.6	5278.8	5308.5	5343.7	5387.0	5408.5	5443.7	5478.9
17.5°	5084.0	5121.9	5149.0	5181.4	5224.7	5257.1	5286.9	5330.1	5357.1	5395.0	5435.6
20°	5013.7	5051.6	5084.0	5116.5	5159.8	5192.2	5227.3	5270.6	5300.4	5338.2	5370.7
22.5°	4929.9	4965.1	5000.1	5038.0	5081.3	5108.3	5149.0	5186.8	5219.2	5254.4	5286.9
25°	4821.7	4865.0	4892.1	4927.1	4962.3	4992.0	5035.3	5073.2	5100.2	5132.7	5162.4
27.5°	4694.6	4727.1	4748.7	4778.4	4813.6	4840.6	4873.0	4911.0	4938.0	4967.8	4989.4
30°	4478.2	4508.0	4527.0	4548.6	4583.7	4608.1	4635.2	4670.2	4689.1	4710.9	4729.8
32.5°	4194.3	4218.6	4229.4	4245.7	4270.1	4294.3	4316.0	4345.8	4353.9	4367.4	4367.4
35°	3783.3	3788.7	3786.0	3791.4	3802.2	3815.7	3834.6	3853.5	3864.3	3864.3	3856.3
37.5°	3301.9	3269.5	3234.3	3207.3	3199.2	3193.7	3204.6	3212.6	3223.5	3228.9	3215.4
40°	2801.7	2728.6	2650.2	2579.8	2531.2	2509.6	2501.5	2506.8	2506.8	2525.7	2525.7
42.5°	2371.7	2258.0	2141.8	2036.3	1966.0	1912.0	1887.6	1887.6	1890.3	1903.8	1912.0
45°	2014.7	1871.3	1736.1	1619.9	1522.5	1452.1	1419.8	1411.6	1409.0	1414.3	1433.2
47.5°	1741.6	1592.8	1452.1	1308.9	1206.2	1135.8	1106.1	1095.2	1084.4	1095.2	1098.0
50°	1528.0	1373.8	1225.1	1081.7	973.5	911.3	873.4	857.2	854.5	854.5	860.0
52.5°	1333.2	1189.9	1041.2	895.2	781.5	722.1	686.9	678.8	668.0	678.8	678.8
55°	1149.3	1006.0	860.0	722.1	627.3	565.2	532.7	521.9	516.5	524.6	524.6
57.5°	949.3	827.5	692.3	567.9	473.3	430.0	405.6	392.1	389.4	394.8	389.4
60°	778.8	676.1	559.8	446.2	373.2	327.3	308.3	302.9	297.4	302.9	302.9
62.5°	616.5	530.1	435.3	348.8	286.6	254.2	232.5	232.5	229.9	229.9	232.5
65°	457.0	389.4	321.8	248.8	200.1	175.8	159.5	159.5	156.8	159.5	156.8
67.5°	332.6	286.6	232.5	181.2	143.4	129.8	119.0	110.9	116.3	110.9	108.2
70°	243.4	205.5	167.6	137.9	110.9	97.4	89.3	86.5	81.1	81.1	81.1
72.5°	162.3	137.9	113.5	89.3	73.0	59.4	56.8	51.4	46.0	48.6	54.1
75°	108.2	91.9	81.1	64.9	48.6	48.6	32.5	32.5	27.0	32.5	24.4
77.5°	75.7	62.2	48.6	40.5	32.5	29.7	21.6	21.6	18.9	18.9	18.9
80°	54.1	46.0	35.2	29.7	21.6	21.6	18.9	16.3	13.5	13.5	16.3
82.5°	32.5	24.4	24.4	21.6	13.5	10.8	8.1	10.8	5.5	5.5	5.5
85°	18.9	16.3	13.5	8.1	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.8	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5570.8	5568.1	5573.5	5573.5	5589.8	5587.0	5595.1	5595.1	5589.8	5592.4	5603.2
5°	5589.8	5597.9	5614.0	5627.6	5651.9	5662.8	5676.2	5689.8	5692.5	5700.6	5708.7
7.5°	5589.8	5616.8	5635.7	5660.0	5692.5	5711.4	5741.1	5765.5	5776.3	5789.8	5806.0
10°	5578.8	5605.9	5641.1	5668.1	5708.7	5738.5	5768.2	5806.0	5822.3	5843.9	5865.6
12.5°	5557.3	5587.0	5624.8	5660.0	5706.0	5733.0	5770.9	5806.0	5830.4	5860.1	5884.5
15°	5524.9	5559.9	5595.1	5630.3	5678.9	5711.4	5746.6	5787.1	5811.5	5843.9	5865.6
17.5°	5473.4	5511.3	5543.8	5576.2	5622.1	5660.0	5692.5	5730.3	5754.7	5781.8	5811.5
20°	5411.2	5446.4	5481.6	5508.6	5554.6	5587.0	5622.1	5657.3	5676.2	5681.7	5727.7
22.5°	5332.9	5357.1	5384.2	5427.5	5454.5	5484.2	5516.7	5549.1	5568.1	5597.9	5614.0
25°	5203.0	5227.3	5257.1	5276.0	5308.5	5332.9	5365.2	5400.4	5411.2	5432.9	5449.1
27.5°	5021.9	5035.3	5048.9	5065.0	5084.0	5097.5	5116.5	5132.7	5143.5	5154.3	5165.1
30°	4735.1	4735.1	4735.1	4724.3	4732.4	4740.6	4743.2	4740.6	4740.6	4737.9	4737.9
32.5°	4356.6	4335.0	4310.6	4289.0	4280.9	4270.1	4264.6	4256.5	4243.0	4234.9	4237.6
35°	3845.4	3796.8	3767.1	3740.0	3718.4	3702.2	3694.0	3685.9	3683.2	3672.4	3661.5
37.5°	3207.3	3172.1	3150.5	3134.3	3115.3	3099.1	3101.8	3104.5	3112.6	3107.2	3109.9
40°	2531.2	2523.1	2531.2	2512.3	2506.8	2512.3	2525.7	2544.8	2555.6	2566.4	2585.3
42.5°	1925.4	1938.9	1957.9	1957.9	1966.0	1976.9	1993.0	2022.8	2039.0	2057.9	2079.6
45°	1449.5	1465.7	1490.1	1498.1	1503.6	1517.0	1536.1	1560.3	1571.1	1587.4	1606.3
47.5°	1116.9	1127.7	1141.1	1154.7	1168.2	1173.7	1192.6	1192.6	1206.2	1217.0	1222.3
50°	870.8	881.6	892.4	900.5	906.0	914.1	919.4	927.5	930.2	935.7	938.3
52.5°	681.4	695.0	695.0	700.4	708.5	716.6	713.9	716.6	719.3	719.3	727.4
55°	532.7	532.7	540.9	540.9	546.3	543.5	546.3	546.3	546.3	546.3	549.0
57.5°	397.5	400.3	408.4	402.9	400.3	405.6	400.3	405.6	402.9	408.4	400.3
60°	305.5	305.5	308.3	308.3	311.0	311.0	311.0	308.3	308.3	305.5	305.5
62.5°	229.9	232.5	235.3	232.5	232.5	232.5	229.9	229.9	227.2	224.4	224.4
65°	154.2	151.5	156.8	151.5	154.2	154.2	151.5	154.2	146.0	148.7	146.0
67.5°	110.9	108.2	105.5	108.2	105.5	102.7	102.7	105.5	108.2	100.1	100.1
70°	73.0	75.7	73.0	75.7	78.5	78.5	75.7	73.0	75.7	70.3	73.0
72.5°	46.0	46.0	46.0	46.0	46.0	48.6	48.6	48.6	43.3	43.3	40.5
75°	21.6	29.7	24.4	21.6	29.7	29.7	27.0	27.0	24.4	24.4	24.4
77.5°	21.6	16.3	16.3	16.3	16.3	16.3	16.3	16.3	13.5	16.3	13.5
80°	10.8	10.8	10.8	8.1	10.8	10.8	13.5	10.8	10.8	8.1	13.5
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	2.7
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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5600.6	5597.9	5600.6	5603.2	5600.6	5597.9	5600.6	5603.2	5592.4	5589.8	5595.1
5°	5719.5	5719.5	5724.9	5727.7	5724.9	5719.5	5719.5	5708.7	5700.6	5692.5	5689.8
7.5°	5822.3	5827.7	5833.1	5835.8	5833.1	5827.7	5822.3	5806.0	5789.8	5776.3	5765.5
10°	5884.5	5892.6	5903.4	5908.8	5903.4	5892.6	5884.5	5865.6	5843.9	5822.3	5806.0
12.5°	5911.6	5919.7	5933.1	5930.5	5933.1	5919.7	5911.6	5884.5	5860.1	5830.4	5806.0
15°	5892.6	5903.4	5916.9	5922.4	5916.9	5903.4	5892.6	5865.6	5843.9	5811.5	5787.1
17.5°	5833.1	5849.3	5857.5	5865.6	5857.5	5849.3	5833.1	5811.5	5781.8	5754.7	5730.3
20°	5751.9	5762.8	5773.6	5776.3	5773.6	5762.8	5751.9	5727.7	5681.7	5676.2	5657.3
22.5°	5635.7	5643.9	5668.1	5660.0	5668.1	5643.9	5635.7	5614.0	5597.9	5568.1	5549.1
25°	5468.0	5476.1	5478.9	5481.6	5478.9	5476.1	5468.0	5449.1	5432.9	5411.2	5400.4
27.5°	5178.7	5178.7	5184.0	5186.8	5184.0	5178.7	5178.7	5165.1	5154.3	5143.5	5132.7
30°	4740.6	4740.6	4740.6	4754.2	4740.6	4740.6	4740.6	4737.9	4737.9	4740.6	4740.6
32.5°	4234.9	4229.4	4224.1	4229.4	4224.1	4229.4	4234.9	4237.6	4234.9	4243.0	4256.5
35°	3661.5	3658.9	3667.0	3656.2	3667.0	3658.9	3661.5	3661.5	3672.4	3683.2	3685.9
37.5°	3112.6	3107.2	3118.0	3107.2	3118.0	3107.2	3112.6	3109.9	3107.2	3112.6	3104.5
40°	2590.7	2596.1	2596.1	2617.8	2596.1	2596.1	2590.7	2585.3	2566.4	2555.6	2544.8
42.5°	2090.4	2106.6	2101.2	2117.4	2101.2	2106.6	2090.4	2079.6	2057.9	2039.0	2022.8
45°	1617.1	1628.0	1628.0	1633.4	1628.0	1628.0	1617.1	1606.3	1587.4	1571.1	1560.3
47.5°	1241.2	1241.2	1241.2	1244.0	1241.2	1241.2	1241.2	1222.3	1217.0	1206.2	1192.6
50°	943.8	946.5	949.3	951.9	949.3	946.5	943.8	938.3	935.7	930.2	927.5
52.5°	724.7	727.4	722.1	727.4	722.1	727.4	724.7	727.4	719.3	719.3	716.6
55°	549.0	546.3	549.0	551.7	549.0	546.3	549.0	549.0	546.3	546.3	546.3
57.5°	402.9	397.5	397.5	397.5	397.5	397.5	402.9	400.3	408.4	402.9	405.6
60°	300.2	302.9	302.9	305.5	302.9	302.9	300.2	305.5	305.5	308.3	308.3
62.5°	221.7	229.9	224.4	229.9	224.4	229.9	221.7	224.4	224.4	227.2	229.9
65°	143.4	143.4	143.4	146.0	143.4	143.4	143.4	146.0	148.7	146.0	154.2
67.5°	97.4	100.1	105.5	102.7	105.5	100.1	97.4	100.1	100.1	108.2	105.5
70°	78.5	70.3	70.3	78.5	70.3	70.3	78.5	73.0	70.3	75.7	73.0
72.5°	46.0	40.5	46.0	46.0	46.0	40.5	46.0	40.5	43.3	43.3	48.6
75°	24.4	21.6	18.9	27.0	18.9	21.6	24.4	24.4	24.4	24.4	27.0
77.5°	16.3	13.5	18.9	18.9	18.9	13.5	16.3	13.5	16.3	13.5	16.3
80°	8.1	10.8	8.1	13.5	8.1	10.8	8.1	13.5	8.1	10.8	10.8
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5595.1	5587.0	5589.8	5573.5	5573.5	5568.1	5570.8	5557.3	5551.9	5546.5	5554.6
5°	5676.2	5662.8	5651.9	5627.6	5614.0	5597.9	5589.8	5568.1	5549.1	5532.9	5530.2
7.5°	5741.1	5711.4	5692.5	5660.0	5635.7	5616.8	5589.8	5559.9	5535.7	5514.0	5497.8
10°	5768.2	5738.5	5708.7	5668.1	5641.1	5605.9	5578.8	5541.0	5508.6	5478.9	5459.9
12.5°	5770.9	5733.0	5706.0	5660.0	5624.8	5587.0	5557.3	5514.0	5476.1	5446.4	5416.7
15°	5746.6	5711.4	5678.9	5630.3	5595.1	5559.9	5524.9	5478.9	5443.7	5408.5	5387.0
17.5°	5692.5	5660.0	5622.1	5576.2	5543.8	5511.3	5473.4	5435.6	5395.0	5357.1	5330.1
20°	5622.1	5587.0	5554.6	5508.6	5481.6	5446.4	5411.2	5370.7	5338.2	5300.4	5270.6
22.5°	5516.7	5484.2	5454.5	5427.5	5384.2	5357.1	5332.9	5286.9	5254.4	5219.2	5186.8
25°	5365.2	5332.9	5308.5	5276.0	5257.1	5227.3	5203.0	5162.4	5132.7	5100.2	5073.2
27.5°	5116.5	5097.5	5084.0	5065.0	5048.9	5035.3	5021.9	4989.4	4967.8	4938.0	4911.0
30°	4743.2	4740.6	4732.4	4724.3	4735.1	4735.1	4735.1	4729.8	4710.9	4689.1	4670.2
32.5°	4264.6	4270.1	4280.9	4289.0	4310.6	4335.0	4356.6	4367.4	4367.4	4353.9	4345.8
35°	3694.0	3702.2	3718.4	3740.0	3767.1	3796.8	3845.4	3856.3	3864.3	3864.3	3853.5
37.5°	3101.8	3099.1	3115.3	3134.3	3150.5	3172.1	3207.3	3215.4	3228.9	3223.5	3212.6
40°	2525.7	2512.3	2506.8	2512.3	2531.2	2523.1	2531.2	2525.7	2525.7	2506.8	2506.8
42.5°	1993.0	1976.9	1966.0	1957.9	1957.9	1938.9	1925.4	1912.0	1903.8	1890.3	1887.6
45°	1536.1	1517.0	1503.6	1498.1	1490.1	1465.7	1449.5	1433.2	1414.3	1409.0	1411.6
47.5°	1192.6	1173.7	1168.2	1154.7	1141.1	1127.7	1116.9	1098.0	1095.2	1084.4	1095.2
50°	919.4	914.1	906.0	900.5	892.4	881.6	870.8	860.0	854.5	854.5	857.2
52.5°	713.9	716.6	708.5	700.4	695.0	695.0	681.4	678.8	678.8	668.0	678.8
55°	546.3	543.5	546.3	540.9	540.9	532.7	532.7	524.6	524.6	516.5	521.9
57.5°	400.3	405.6	400.3	402.9	408.4	400.3	397.5	389.4	394.8	389.4	392.1
60°	311.0	311.0	311.0	308.3	308.3	305.5	305.5	302.9	302.9	297.4	302.9
62.5°	229.9	232.5	232.5	232.5	235.3	232.5	229.9	232.5	229.9	229.9	232.5
65°	151.5	154.2	154.2	151.5	156.8	151.5	154.2	156.8	159.5	156.8	159.5
67.5°	102.7	102.7	105.5	108.2	105.5	108.2	110.9	108.2	110.9	116.3	110.9
70°	75.7	78.5	78.5	75.7	73.0	75.7	73.0	81.1	81.1	81.1	86.5
72.5°	48.6	48.6	46.0	46.0	46.0	46.0	46.0	54.1	48.6	46.0	51.4
75°	27.0	29.7	29.7	21.6	24.4	29.7	21.6	24.4	32.5	27.0	32.5
77.5°	16.3	16.3	16.3	16.3	16.3	16.3	21.6	18.9	18.9	18.9	21.6
80°	13.5	10.8	10.8	8.1	10.8	10.8	10.8	16.3	13.5	13.5	16.3
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5532.9	5532.9	5530.2	5524.9	5514.0	5514.0	5511.3	5503.2	5497.8	5495.0	5495.0
5°	5505.8	5495.0	5484.2	5454.5	5454.5	5449.1	5432.9	5422.0	5416.7	5403.1	5397.7
7.5°	5481.6	5449.1	5430.1	5411.2	5387.0	5376.0	5357.1	5349.0	5330.1	5316.6	5308.5
10°	5422.0	5400.4	5376.0	5346.3	5327.4	5305.8	5284.1	5268.0	5243.6	5230.0	5219.2
12.5°	5381.5	5349.0	5327.4	5294.9	5262.5	5243.6	5213.9	5194.9	5170.6	5143.5	5127.3
15°	5343.7	5308.5	5278.8	5243.6	5208.4	5186.8	5151.6	5130.0	5094.9	5067.8	5048.9
17.5°	5286.9	5257.1	5224.7	5181.4	5149.0	5121.9	5084.0	5057.0	5024.5	4989.4	4970.4
20°	5227.3	5192.2	5159.8	5116.5	5084.0	5051.6	5013.7	4984.0	4946.1	4913.7	4892.1
22.5°	5149.0	5108.3	5081.3	5038.0	5000.1	4965.1	4929.9	4894.7	4859.6	4832.5	4808.1
25°	5035.3	4992.0	4962.3	4927.1	4892.1	4865.0	4821.7	4800.1	4765.0	4740.6	4716.2
27.5°	4873.0	4840.6	4813.6	4778.4	4748.7	4727.1	4694.6	4673.0	4643.2	4621.6	4602.7
30°	4635.2	4608.1	4583.7	4548.6	4527.0	4508.0	4478.2	4459.3	4437.7	4413.3	4408.0
32.5°	4316.0	4294.3	4270.1	4245.7	4229.4	4218.6	4194.3	4183.5	4161.9	4148.3	4134.8
35°	3834.6	3815.7	3802.2	3791.4	3786.0	3788.7	3783.3	3794.1	3799.4	3796.8	3799.4
37.5°	3204.6	3193.7	3199.2	3207.3	3234.3	3269.5	3301.9	3350.5	3383.0	3415.5	3445.3
40°	2501.5	2509.6	2531.2	2579.8	2650.2	2728.6	2801.7	2893.6	2985.6	3050.4	3109.9
42.5°	1887.6	1912.0	1966.0	2036.3	2141.8	2258.0	2371.7	2506.8	2617.8	2725.9	2801.7
45°	1419.8	1452.1	1522.5	1619.9	1736.1	1871.3	2014.7	2166.1	2298.7	2409.5	2493.3
47.5°	1106.1	1135.8	1206.2	1308.9	1452.1	1592.8	1741.6	1898.4	2036.3	2144.5	2217.5
50°	873.4	911.3	973.5	1081.7	1225.1	1373.8	1528.0	1682.0	1811.9	1903.8	1968.7
52.5°	686.9	722.1	781.5	895.2	1041.2	1189.9	1333.2	1484.7	1598.2	1687.5	1730.8
55°	532.7	565.2	627.3	722.1	860.0	1006.0	1149.3	1279.2	1384.6	1449.5	1490.1
57.5°	405.6	430.0	473.3	567.9	692.3	827.5	949.3	1079.0	1160.2	1206.2	1233.1
60°	308.3	327.3	373.2	446.2	559.8	676.1	778.8	876.2	941.1	979.0	1006.0
62.5°	232.5	254.2	286.6	348.8	435.3	530.1	616.5	689.6	743.7	768.0	787.0
65°	159.5	175.8	200.1	248.8	321.8	389.4	457.0	511.1	546.3	573.4	584.2
67.5°	119.0	129.8	143.4	181.2	232.5	286.6	332.6	370.4	408.4	419.2	438.1
70°	89.3	97.4	110.9	137.9	167.6	205.5	243.4	265.0	292.1	311.0	316.5
72.5°	56.8	59.4	73.0	89.3	113.5	137.9	162.3	181.2	197.5	208.3	213.6
75°	32.5	48.6	48.6	64.9	81.1	91.9	108.2	121.7	129.8	137.9	137.9
77.5°	21.6	29.7	32.5	40.5	48.6	62.2	75.7	83.8	91.9	94.6	94.6
80°	18.9	21.6	21.6	29.7	35.2	46.0	54.1	56.8	62.2	64.9	70.3
82.5°	8.1	10.8	13.5	21.6	24.4	24.4	32.5	35.2	40.5	43.3	43.3
85°	2.7	5.5	5.5	8.1	13.5	16.3	18.9	21.6	24.4	24.4	27.0
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.8	10.8	10.8	16.3	16.3
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: P248995

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3	5538.3
2.5°	5489.7	5492.4	5481.6	5478.9	5473.4	5476.1	5481.6
5°	5389.6	5392.3	5381.5	5370.7	5370.7	5367.9	5370.7
7.5°	5294.9	5297.7	5281.4	5276.0	5265.2	5268.0	5268.0
10°	5200.3	5200.3	5176.0	5173.2	5165.1	5162.4	5162.4
12.5°	5108.3	5100.2	5081.3	5070.5	5076.0	5059.7	5059.7
15°	5027.2	5013.7	4989.4	4981.2	4967.8	4962.3	4962.3
17.5°	4943.4	4932.6	4911.0	4894.7	4878.5	4875.8	4878.5
20°	4862.2	4851.4	4824.4	4813.6	4800.1	4800.1	4794.7
22.5°	4781.1	4770.3	4746.0	4737.9	4719.0	4719.0	4721.7
25°	4697.3	4689.1	4662.1	4656.8	4654.1	4643.2	4648.6
27.5°	4583.7	4578.3	4556.7	4548.6	4537.8	4535.1	4540.4
30°	4375.5	4367.4	4351.2	4343.1	4324.2	4326.8	4332.2
32.5°	4115.9	4105.1	4083.4	4075.3	4059.1	4053.7	4056.4
35°	3791.4	3783.3	3764.4	3764.4	3748.1	3742.7	3748.1
37.5°	3461.5	3469.5	3461.5	3469.5	3461.5	3458.7	3461.5
40°	3150.5	3180.2	3185.6	3215.4	3204.6	3220.7	3218.1
42.5°	2853.0	2901.6	2920.7	2944.9	2939.6	2950.4	2958.5
45°	2552.8	2593.4	2612.3	2628.6	2631.3	2636.7	2639.4
47.5°	2268.8	2301.3	2304.0	2322.9	2320.3	2320.3	2328.4
50°	2003.9	2025.5	2030.8	2044.4	2033.6	2028.2	2030.8
52.5°	1757.8	1779.4	1773.9	1779.4	1765.9	1760.5	1763.1
55°	1506.2	1517.0	1517.0	1517.0	1500.9	1500.9	1500.9
57.5°	1249.3	1252.1	1246.7	1249.3	1246.7	1230.4	1227.7
60°	1014.1	1014.1	1011.4	1014.1	1006.0	997.9	997.9
62.5°	792.3	797.8	808.6	797.8	792.3	797.8	789.6
65°	592.3	603.1	600.3	605.7	603.1	603.1	597.6
67.5°	446.2	448.9	451.6	454.4	454.4	454.4	454.4
70°	327.3	335.4	332.6	332.6	332.6	332.6	348.8
72.5°	219.1	229.9	227.2	232.5	232.5	238.0	232.5
75°	148.7	159.5	154.2	162.3	159.5	154.2	167.6
77.5°	100.1	105.5	108.2	110.9	108.2	105.5	108.2
80°	70.3	75.7	73.0	75.7	75.7	75.7	78.5
82.5°	43.3	51.4	48.6	51.4	48.6	51.4	51.4
85°	29.7	32.5	27.0	32.5	29.7	29.7	35.2
87.5°	18.9	16.3	16.3	18.9	16.3	18.9	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)