

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: P251201

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7675.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

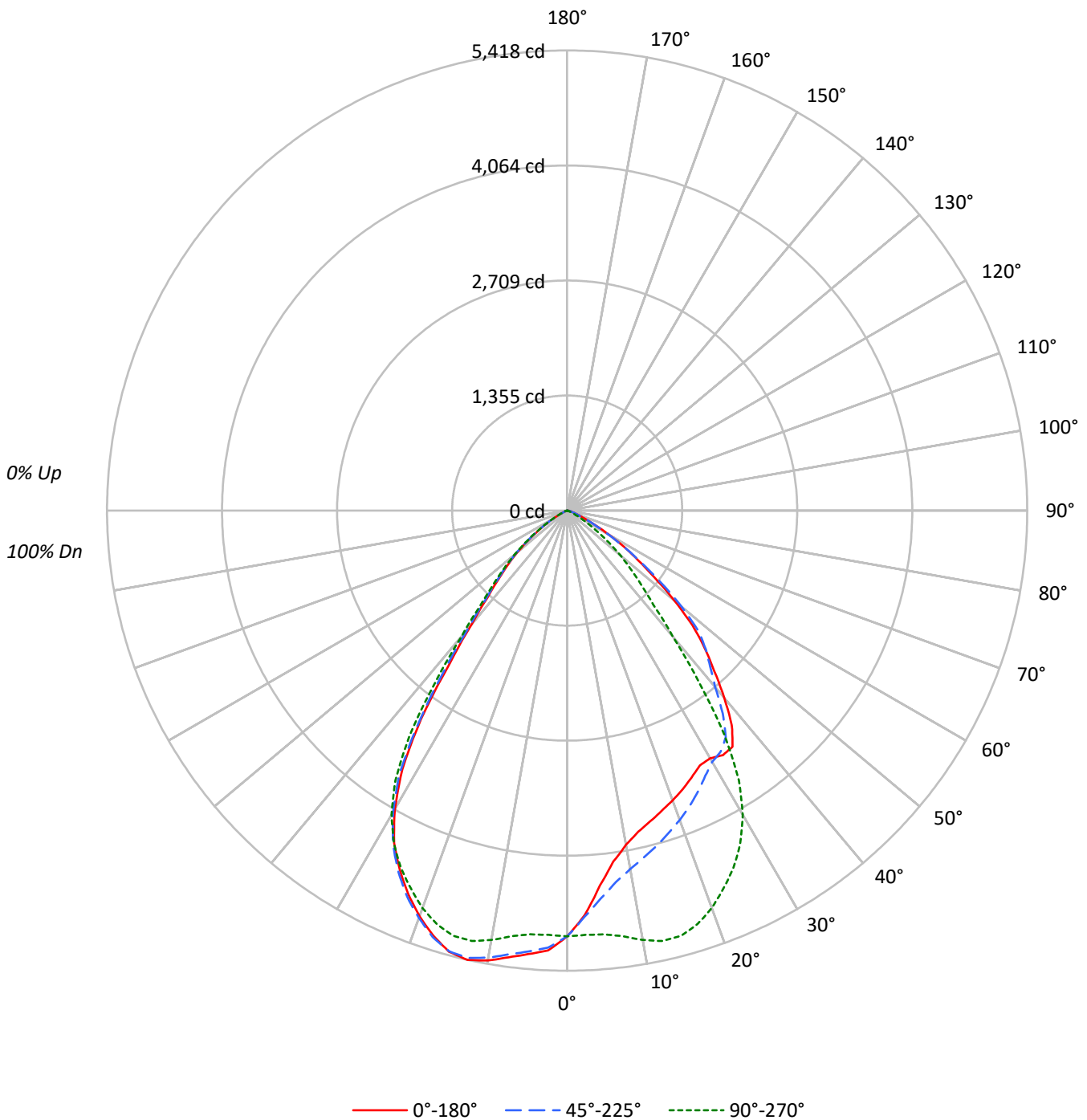
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	154610	154610	154610
5°	137176	154996	162255
10°	125070	160750	168421
15°	120868	165447	171630
20°	119143	163410	166781
25°	117972	157777	158760
30°	119895	147241	144521
35°	127798	121847	113019
40°	115815	78008	70634
45°	99961	53369	49693
50°	78872	38930	36656
55°	54745	23940	22521
60°	34857	12106	10805
65°	17395	4808	3656
70°	9620	2371	1307
75°	6910	1728	631
80°	5612	1172	231
85°	6050	920	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	6.1
10°-20°	1349.7	17.6
20°-30°	1959.0	25.5
30°-40°	1929.5	25.1
40°-50°	1209.5	15.8
50°-60°	583.6	7.6
60°-70°	141.2	1.8
70°-80°	28.5	0.4
80°-90°	6.6	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°	3776.1	49.2
0°-40°	5705.6	74.3
0°-60°	7498.7	97.7
0°-90°	7675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7675.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5014	5014	5014	5014	5014	
5°	4432	4582	5007	5210	5242	410
15°	3786	4084	5182	5372	5376	1070
25°	3467	3648	4637	4700	4666	1605
35°	3395	3256	3237	3052	3002	2054
45°	2292	2308	1224	1172	1140	1752
55°	1018	1051	445	440	419	937
65°	238	236	66	57	50	272
75°	58	50	14	7	5	65
85°	17	13	3	0	0	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9
2.5°	4766.3	4736.0	4679.3	4747.8	4747.8	4709.6	4786.0	4739.9	4776.8	4834.8	4783.4
5°	4431.6	4406.6	4359.2	4431.6	4440.9	4405.3	4497.5	4463.3	4517.3	4588.4	4581.8
7.5°	4166.9	4135.2	4091.8	4166.9	4181.3	4157.6	4245.9	4230.1	4301.2	4393.4	4409.2
10°	3994.3	3961.3	3923.1	3991.6	4002.2	3986.4	4076.0	4066.7	4136.6	4243.3	4285.4
12.5°	3871.8	3844.1	3801.9	3874.4	3886.3	3863.9	3948.2	3944.2	4016.7	4128.6	4181.3
15°	3786.1	3753.2	3715.0	3776.9	3792.7	3767.7	3848.0	3840.1	3913.9	4024.6	4083.9
17.5°	3705.8	3675.5	3635.9	3693.9	3709.7	3683.4	3762.4	3749.2	3812.5	3917.9	3978.5
20°	3630.7	3597.7	3562.2	3621.5	3630.7	3600.4	3679.4	3662.3	3718.9	3816.4	3875.7
22.5°	3553.0	3518.7	3481.8	3539.8	3549.0	3518.7	3591.2	3571.4	3624.1	3712.4	3766.4
25°	3467.3	3435.7	3398.8	3452.8	3460.7	3427.8	3504.2	3479.2	3525.3	3603.0	3647.8
27.5°	3381.7	3351.4	3310.6	3365.9	3369.8	3338.2	3408.0	3373.8	3412.0	3483.1	3521.3
30°	3367.2	3333.0	3290.8	3335.6	3336.9	3296.1	3361.9	3321.1	3342.2	3394.9	3417.3
32.5°	3413.3	3379.1	3335.6	3372.5	3368.5	3323.7	3387.0	3336.9	3343.5	3371.2	3365.9
35°	3394.9	3354.0	3302.7	3342.2	3342.2	3288.2	3351.4	3292.1	3285.5	3289.5	3256.5
37.5°	3185.4	3153.8	3105.0	3143.3	3139.3	3098.5	3147.2	3098.5	3076.1	3066.8	3007.6
40°	2877.1	2838.9	2802.1	2842.9	2846.8	2803.4	2866.6	2811.3	2804.7	2778.3	2708.5
42.5°	2564.9	2551.8	2516.2	2550.4	2568.9	2532.0	2584.7	2558.3	2562.3	2555.7	2489.8
45°	2292.2	2269.8	2243.5	2283.0	2294.9	2276.4	2329.1	2313.3	2329.1	2362.0	2308.0
47.5°	1998.5	1976.1	1947.1	1989.2	2010.3	1976.1	2020.9	2015.6	2039.3	2095.9	2090.7
50°	1644.1	1628.3	1623.0	1628.3	1641.4	1625.6	1657.3	1658.6	1674.4	1752.1	1757.4
52.5°	1301.6	1297.6	1279.2	1296.3	1296.3	1271.3	1302.9	1288.4	1304.2	1356.9	1391.1
55°	1018.3	1014.4	1002.5	1018.3	1001.2	992.0	1001.2	986.7	974.9	1015.7	1051.3
57.5°	793.1	779.9	765.4	772.0	770.7	750.9	761.4	744.3	735.1	749.6	781.2
60°	565.2	561.2	548.0	554.6	559.9	545.4	555.9	548.0	532.2	544.1	545.4
62.5°	375.5	378.1	370.2	371.5	367.5	364.9	371.5	375.5	371.5	366.2	367.5
65°	238.4	237.1	235.8	237.1	239.8	234.5	238.4	241.1	237.1	237.1	235.8
67.5°	158.1	154.1	150.2	152.8	155.5	151.5	155.5	154.1	155.5	154.1	150.2
70°	106.7	105.4	104.1	105.4	105.4	102.8	105.4	104.1	105.4	104.1	100.1
72.5°	77.7	77.7	76.4	77.7	77.7	75.1	76.4	73.8	75.1	73.8	71.1
75°	58.0	58.0	56.6	58.0	56.6	55.3	56.6	55.3	52.7	52.7	50.1
77.5°	42.2	42.2	42.2	42.2	42.2	40.8	40.8	39.5	38.2	36.9	36.9
80°	31.6	30.3	30.3	30.3	30.3	29.0	30.3	29.0	27.7	26.3	25.0
82.5°	22.4	23.7	22.4	22.4	22.4	21.1	22.4	21.1	21.1	19.8	17.1
85°	17.1	17.1	17.1	17.1	17.1	15.8	15.8	15.8	14.5	14.5	13.2
87.5°	9.2	9.2	9.2	10.5	9.2	9.2	9.2	7.9	7.9	6.6	6.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9
2.5°	4851.9	4858.5	4844.0	4866.4	4953.3	4883.5	4912.5	4921.7	4987.6	4999.4	4991.5
5°	4667.5	4696.4	4714.9	4764.9	4861.1	4811.0	4862.4	4895.4	4979.7	5007.3	5013.9
7.5°	4522.5	4583.1	4627.9	4709.6	4822.9	4784.7	4862.4	4916.4	5019.2	5054.8	5071.9
10°	4414.5	4506.7	4584.5	4696.4	4824.2	4799.2	4900.6	4977.0	5091.6	5133.8	5154.9
12.5°	4332.8	4444.8	4548.9	4691.2	4829.5	4817.6	4940.1	5027.1	5148.3	5190.4	5215.5
15°	4243.3	4372.4	4493.6	4653.0	4801.8	4799.2	4930.9	5023.1	5147.0	5182.5	5206.3
17.5°	4136.6	4274.9	4407.9	4580.5	4728.1	4730.7	4863.7	4954.6	5075.8	5104.8	5120.6
20°	4028.5	4165.5	4298.6	4476.4	4621.3	4625.3	4755.7	4840.0	4956.0	4979.7	4983.6
22.5°	3913.9	4041.7	4174.8	4351.3	4490.9	4493.6	4622.7	4701.7	4800.5	4812.4	4822.9
25°	3783.5	3908.6	4033.8	4209.0	4342.1	4350.0	4467.2	4537.0	4627.9	4637.2	4641.1
27.5°	3647.8	3750.6	3870.4	4020.6	4155.0	4149.7	4260.4	4339.4	4421.1	4415.8	4414.5
30°	3510.8	3596.4	3670.2	3815.1	3913.9	3917.9	4021.9	4060.1	4145.8	4135.2	4133.9
32.5°	3414.6	3437.0	3456.8	3530.6	3624.1	3591.2	3662.3	3709.7	3769.0	3765.1	3766.4
35°	3238.1	3197.3	3138.0	3148.5	3205.2	3153.8	3192.0	3190.7	3251.3	3236.8	3253.9
37.5°	2936.4	2820.5	2688.8	2613.7	2624.2	2559.7	2546.5	2578.1	2599.2	2558.3	2572.8
40°	2615.0	2443.7	2238.2	2067.0	2057.7	1977.4	1962.9	1931.3	1972.1	1937.9	1948.4
42.5°	2377.9	2151.3	1881.2	1673.1	1628.3	1561.1	1521.6	1516.3	1528.2	1504.4	1497.9
45°	2196.1	1955.0	1645.4	1407.0	1356.9	1284.4	1244.9	1230.4	1231.7	1223.8	1217.3
47.5°	1982.6	1740.2	1426.7	1183.0	1126.4	1057.9	1018.3	1009.1	1014.4	1003.8	995.9
50°	1687.6	1470.2	1184.3	961.7	911.6	861.6	829.9	820.7	819.4	811.5	806.2
52.5°	1370.1	1189.6	941.9	756.2	711.4	662.6	640.2	628.4	629.7	621.8	613.9
55°	1060.5	948.5	729.8	571.7	530.9	492.7	471.6	457.1	453.2	445.3	441.3
57.5°	789.1	714.0	546.7	412.3	388.6	351.7	330.7	313.5	310.9	306.9	305.6
60°	553.3	499.3	384.7	293.8	266.1	243.7	222.6	205.5	197.6	196.3	192.3
62.5°	358.3	325.4	252.9	196.3	175.2	159.4	138.3	126.5	121.2	115.9	117.2
65°	222.6	197.6	158.1	126.5	114.6	102.8	86.9	76.4	71.1	65.9	67.2
67.5°	138.3	123.8	100.1	81.7	73.8	64.6	52.7	44.8	40.8	36.9	34.3
70°	93.5	80.4	68.5	58.0	52.7	46.1	38.2	31.6	29.0	26.3	23.7
72.5°	65.9	59.3	50.1	43.5	39.5	34.3	29.0	25.0	22.4	19.8	17.1
75°	47.4	42.2	36.9	31.6	29.0	26.3	22.4	19.8	17.1	14.5	11.9
77.5°	34.3	30.3	26.3	23.7	22.4	18.4	15.8	14.5	13.2	10.5	7.9
80°	23.7	21.1	17.1	15.8	15.8	13.2	11.9	10.5	9.2	6.6	5.3
82.5°	15.8	14.5	13.2	11.9	10.5	9.2	9.2	6.6	5.3	4.0	2.6
85°	11.9	10.5	9.2	7.9	7.9	6.6	5.3	4.0	4.0	2.6	1.3
87.5°	6.6	6.6	5.3	4.0	4.0	2.6	2.6	1.3	1.3	1.3	1.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9
2.5°	5058.7	5062.7	5085.1	5067.9	5111.4	5143.0	5127.2	5162.8	5150.9	5148.3	5189.1
5°	5093.0	5102.2	5132.5	5116.7	5164.1	5198.4	5182.5	5222.1	5210.2	5207.6	5249.7
7.5°	5158.8	5168.1	5194.4	5181.2	5231.3	5261.6	5241.8	5285.3	5269.5	5268.2	5309.0
10°	5241.8	5255.0	5277.4	5264.2	5310.3	5336.7	5316.9	5359.1	5344.6	5338.0	5382.8
12.5°	5303.7	5313.0	5335.4	5324.8	5369.6	5389.4	5372.2	5413.1	5394.6	5389.4	5428.9
15°	5289.3	5298.5	5316.9	5307.7	5349.9	5368.3	5345.9	5390.7	5372.2	5361.7	5397.3
17.5°	5197.0	5202.3	5215.5	5206.3	5251.0	5262.9	5237.9	5282.7	5265.5	5247.1	5281.3
20°	5061.3	5058.7	5066.6	5062.7	5099.6	5106.1	5090.3	5123.3	5103.5	5093.0	5112.7
22.5°	4892.7	4890.1	4895.4	4884.8	4921.7	4925.7	4901.9	4941.5	4921.7	4901.9	4934.9
25°	4705.7	4691.2	4688.5	4692.5	4717.5	4721.5	4696.4	4725.4	4700.4	4684.6	4716.2
27.5°	4475.1	4456.7	4452.7	4456.7	4481.7	4463.3	4442.2	4463.3	4438.2	4423.7	4443.5
30°	4190.6	4164.2	4152.4	4144.5	4170.8	4164.2	4115.5	4139.2	4099.7	4078.6	4093.1
32.5°	3807.2	3792.7	3761.1	3742.7	3767.7	3717.6	3687.3	3687.3	3671.5	3635.9	3643.9
35°	3275.0	3252.6	3223.6	3207.8	3211.8	3144.6	3094.5	3105.0	3052.4	3043.1	3047.1
37.5°	2601.8	2564.9	2554.4	2521.5	2529.4	2470.1	2401.6	2402.9	2375.2	2346.2	2337.0
40°	1955.0	1948.4	1937.9	1910.2	1920.7	1856.2	1829.8	1831.1	1812.7	1791.6	1802.2
42.5°	1511.0	1489.9	1483.4	1474.1	1476.8	1466.2	1432.0	1435.9	1420.1	1414.9	1409.6
45°	1227.8	1205.4	1189.6	1197.5	1197.5	1185.6	1172.5	1180.4	1172.5	1161.9	1167.2
47.5°	1011.7	990.7	982.8	981.4	990.7	982.8	969.6	972.2	970.9	967.0	964.3
50°	807.5	802.3	795.7	791.7	795.7	793.1	781.2	787.8	791.7	778.6	782.5
52.5°	615.2	615.2	613.9	604.7	612.6	604.7	603.4	606.0	602.0	596.8	595.5
55°	450.5	446.6	440.0	438.7	441.3	438.7	436.1	437.4	440.0	426.8	426.8
57.5°	308.3	305.6	301.7	301.7	306.9	300.4	296.4	301.7	296.4	291.1	291.1
60°	197.6	196.3	192.3	192.3	192.3	191.0	187.1	188.4	191.0	183.1	184.4
62.5°	118.6	114.6	113.3	112.0	113.3	112.0	112.0	110.7	109.3	109.3	105.4
65°	64.6	61.9	59.3	60.6	60.6	59.3	59.3	59.3	56.6	55.3	54.0
67.5°	32.9	30.3	30.3	29.0	29.0	29.0	29.0	27.7	27.7	27.7	26.3
70°	21.1	19.8	18.4	18.4	18.4	17.1	17.1	17.1	17.1	17.1	15.8
72.5°	14.5	13.2	11.9	11.9	11.9	10.5	10.5	10.5	10.5	9.2	9.2
75°	10.5	9.2	7.9	7.9	7.9	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	6.6	5.3	5.3	5.3	5.3	4.0	4.0	4.0	4.0	4.0	2.6
80°	4.0	4.0	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
82.5°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	1.3	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: P251201

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9	5013.9
2.5°	5174.6	5164.1	5170.7	5219.4	5198.4	5191.8	5136.4	5185.2
5°	5236.6	5228.7	5228.7	5284.0	5259.0	5253.7	5199.7	5241.8
7.5°	5294.5	5286.6	5287.9	5344.6	5324.8	5316.9	5262.9	5305.1
10°	5369.6	5364.3	5365.7	5419.7	5398.6	5390.7	5335.4	5378.8
12.5°	5414.4	5406.5	5406.5	5464.5	5440.8	5428.9	5376.2	5418.4
15°	5380.2	5368.3	5368.3	5426.3	5399.9	5382.8	5336.7	5376.2
17.5°	5262.9	5251.0	5251.0	5301.1	5281.3	5256.3	5208.9	5245.8
20°	5099.6	5085.1	5081.1	5139.1	5111.4	5089.0	5046.9	5082.4
22.5°	4915.1	4908.5	4896.7	4954.6	4929.6	4905.9	4861.1	4888.8
25°	4693.8	4683.3	4671.4	4728.1	4703.0	4679.3	4643.7	4666.1
27.5°	4418.5	4419.8	4413.2	4458.0	4433.0	4419.8	4376.3	4413.2
30°	4085.2	4070.7	4065.4	4118.1	4094.4	4077.3	4023.3	4058.8
32.5°	3650.4	3629.4	3601.7	3661.0	3620.1	3605.7	3559.5	3610.9
35°	3018.1	3011.5	2986.5	3036.5	3014.1	2987.8	2958.8	3002.3
37.5°	2333.1	2338.3	2335.7	2348.9	2335.7	2318.6	2287.0	2271.2
40°	1781.1	1767.9	1757.4	1781.1	1753.4	1753.4	1735.0	1754.7
42.5°	1396.4	1391.1	1404.3	1409.6	1393.8	1391.1	1388.5	1387.2
45°	1152.7	1152.7	1155.3	1160.6	1155.3	1152.7	1144.8	1139.5
47.5°	949.8	955.1	949.8	967.0	957.7	955.1	939.3	945.9
50°	769.3	762.8	769.3	774.6	775.9	768.0	760.1	764.1
52.5°	596.8	586.2	583.6	591.5	586.2	586.2	581.0	579.6
55°	420.2	424.2	417.6	424.2	421.6	417.6	413.7	418.9
57.5°	284.6	285.9	283.2	287.2	280.6	281.9	280.6	279.3
60°	184.4	179.2	179.2	183.1	176.5	176.5	175.2	175.2
62.5°	105.4	104.1	104.1	102.8	101.4	101.4	101.4	98.8
65°	54.0	52.7	51.4	51.4	51.4	51.4	50.1	50.1
67.5°	26.3	25.0	25.0	26.3	25.0	25.0	25.0	25.0
70°	15.8	15.8	14.5	15.8	14.5	14.5	14.5	14.5
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	4.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)