

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: P250892

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250892
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: LSR8B60D010 EC8B60835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6593.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

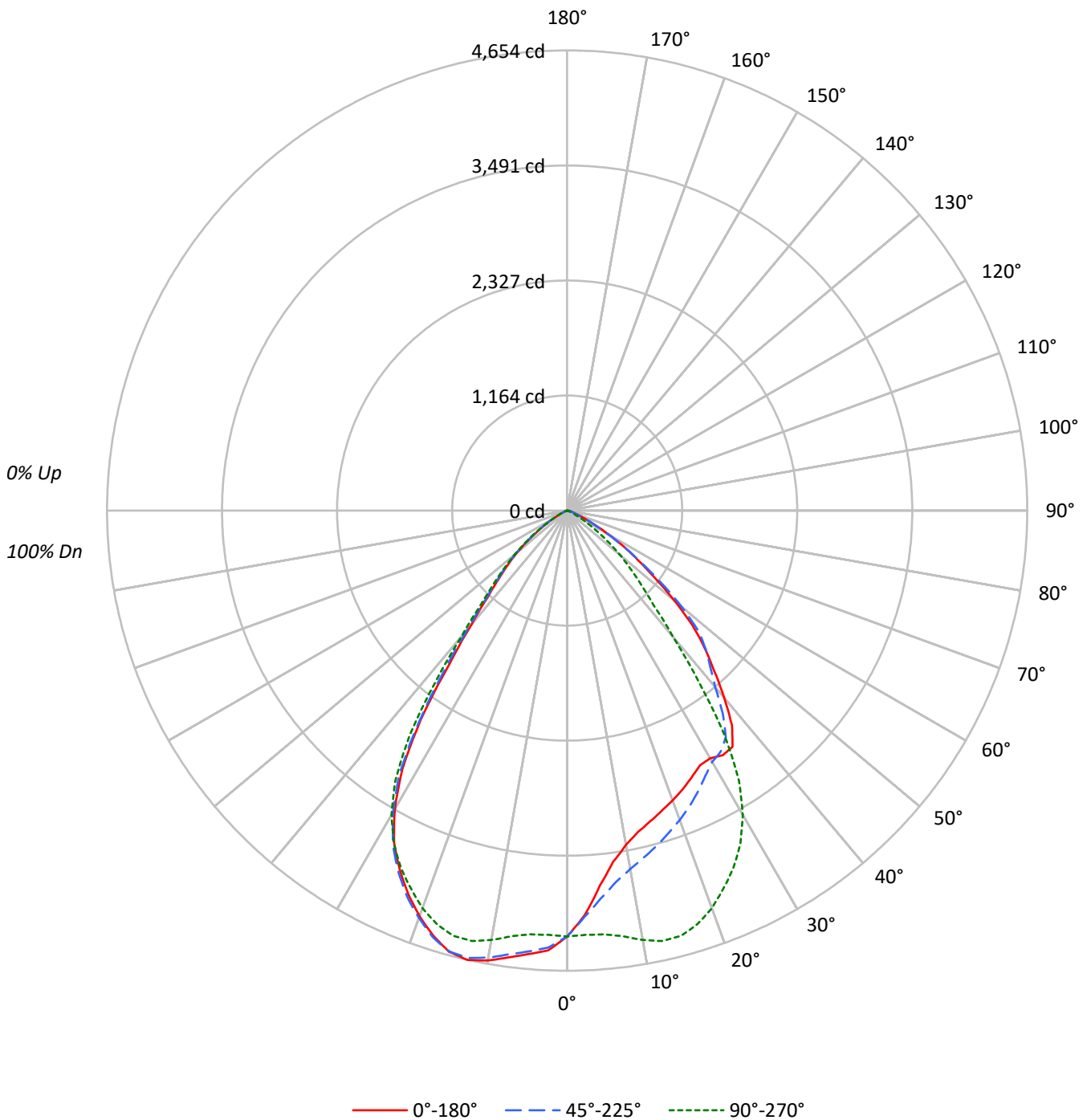
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSW0LI

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°	132815	132815	132815
5°	117839	133146	139380
10°	107438	138089	144677
15°	103830	142123	147435
20°	102344	140374	143268
25°	101341	135532	136379
30°	102992	126486	124146
35°	109782	104670	97084
40°	99488	67011	60679
45°	85871	45846	42689
50°	67752	33442	31489
55°	47031	20564	19349
60°	29942	10398	9282
65°	14943	4130	3137
70°	8268	2038	1118
75°	5933	1477	536
80°	4830	1012	195
85°	5201	814	0



TEST NUMBER: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.4	6.1
10°-20°	1159.5	17.6
20°-30°	1682.9	25.5
30°-40°	1657.5	25.1
40°-50°	1039.0	15.8
50°-60°	501.3	7.6
60°-70°	121.3	1.8
70°-80°	24.5	0.4
80°-90°	5.6	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°	3243.8	49.2
0°-40°	4901.2	74.3
0°-60°	6441.5	97.7
0°-90°	6593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6593.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4307	4307	4307	4307	4307	
5°	3807	3936	4301	4476	4503	352
15°	3252	3508	4452	4615	4618	920
25°	2978	3134	3983	4038	4008	1378
35°	2916	2797	2780	2622	2579	1764
45°	1969	1983	1051	1007	979	1505
55°	875	903	382	378	360	805
65°	205	203	57	49	43	234
75°	50	43	12	6	4	56
85°	15	11	2	0	0	15
90°	0	0	0	0	0	



TEST NUMBER: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4094.3	4068.3	4019.6	4078.5	4078.5	4045.7	4111.3	4071.7	4103.4	4153.2	4109.0
5°	3806.9	3785.4	3744.6	3806.9	3814.8	3784.2	3863.5	3834.0	3880.4	3941.5	3935.9
7.5°	3579.4	3552.3	3514.9	3579.4	3591.9	3571.5	3647.3	3633.7	3694.8	3774.1	3787.6
10°	3431.2	3402.9	3370.1	3428.9	3438.0	3424.4	3501.3	3493.4	3553.4	3645.1	3681.3
12.5°	3325.9	3302.2	3266.0	3328.2	3338.4	3319.1	3391.6	3388.2	3450.4	3546.6	3591.9
15°	3252.4	3224.1	3191.3	3244.5	3258.0	3236.5	3305.6	3298.8	3362.1	3457.2	3508.1
17.5°	3183.3	3157.3	3123.4	3173.2	3186.7	3164.1	3232.0	3220.7	3275.0	3365.5	3417.6
20°	3118.8	3090.5	3060.0	3110.9	3118.8	3092.8	3160.7	3146.0	3194.7	3278.4	3329.3
22.5°	3052.1	3022.6	2991.0	3040.8	3048.7	3022.6	3084.9	3067.9	3113.2	3189.0	3235.4
25°	2978.5	2951.4	2919.7	2966.1	2972.9	2944.6	3010.2	2988.7	3028.3	3095.1	3133.5
27.5°	2905.0	2878.9	2843.8	2891.4	2894.8	2867.6	2927.6	2898.2	2931.0	2992.1	3024.9
30°	2892.5	2863.1	2826.9	2865.3	2866.5	2831.4	2888.0	2852.9	2871.0	2916.3	2935.5
32.5°	2932.1	2902.7	2865.3	2897.0	2893.6	2855.2	2909.5	2866.5	2872.1	2895.9	2891.4
35°	2916.3	2881.2	2837.1	2871.0	2871.0	2824.6	2878.9	2828.0	2822.3	2825.7	2797.4
37.5°	2736.3	2709.2	2667.3	2700.1	2696.7	2661.6	2703.5	2661.6	2642.4	2634.5	2583.6
40°	2471.5	2438.7	2407.0	2442.1	2445.5	2408.2	2462.5	2414.9	2409.3	2386.7	2326.7
42.5°	2203.3	2192.0	2161.5	2190.9	2206.7	2175.0	2220.3	2197.7	2201.1	2195.4	2138.8
45°	1969.1	1949.8	1927.2	1961.2	1971.3	1955.5	2000.8	1987.2	2000.8	2029.1	1982.7
47.5°	1716.7	1697.5	1672.6	1708.8	1726.9	1697.5	1736.0	1731.4	1751.8	1800.5	1795.9
50°	1412.3	1398.7	1394.2	1398.7	1410.0	1396.5	1423.6	1424.8	1438.3	1505.1	1509.6
52.5°	1118.1	1114.7	1098.8	1113.5	1113.5	1092.0	1119.2	1106.8	1120.3	1165.6	1195.0
55°	874.8	871.4	861.2	874.8	860.1	852.1	860.1	847.6	837.4	872.5	903.1
57.5°	681.3	669.9	657.5	663.1	662.0	645.0	654.1	639.4	631.5	643.9	671.1
60°	485.5	482.1	470.8	476.4	481.0	468.5	477.6	470.8	457.2	467.4	468.5
62.5°	322.5	324.8	318.0	319.1	315.7	313.5	319.1	322.5	319.1	314.6	315.7
65°	204.8	203.7	202.6	203.7	206.0	201.4	204.8	207.1	203.7	203.7	202.6
67.5°	135.8	132.4	129.0	131.3	133.5	130.1	133.5	132.4	133.5	132.4	129.0
70°	91.7	90.5	89.4	90.5	90.5	88.3	90.5	89.4	90.5	89.4	86.0
72.5°	66.8	66.8	65.6	66.8	66.8	64.5	65.6	63.4	64.5	63.4	61.1
75°	49.8	49.8	48.7	49.8	48.7	47.5	48.7	47.5	45.3	45.3	43.0
77.5°	36.2	36.2	36.2	36.2	36.2	35.1	35.1	33.9	32.8	31.7	31.7
80°	27.2	26.0	26.0	26.0	26.0	24.9	26.0	24.9	23.8	22.6	21.5
82.5°	19.2	20.4	19.2	19.2	19.2	18.1	19.2	18.1	18.1	17.0	14.7
85°	14.7	14.7	14.7	14.7	14.7	13.6	13.6	13.6	12.4	12.4	11.3
87.5°	7.9	7.9	7.9	9.1	7.9	7.9	7.9	6.8	6.8	5.7	5.7
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: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4167.9	4173.5	4161.1	4180.3	4255.0	4195.0	4219.9	4227.9	4284.4	4294.6	4287.8
5°	4009.4	4034.3	4050.2	4093.2	4175.8	4132.8	4176.9	4205.2	4277.7	4301.4	4307.1
7.5°	3885.0	3937.0	3975.5	4045.7	4143.0	4110.2	4176.9	4223.3	4311.6	4342.2	4356.9
10°	3792.2	3871.4	3938.2	4034.3	4144.1	4122.6	4209.8	4275.4	4373.8	4410.1	4428.2
12.5°	3722.0	3818.2	3907.6	4029.8	4148.6	4138.5	4243.7	4318.4	4422.5	4458.7	4480.2
15°	3645.1	3756.0	3860.1	3997.0	4124.9	4122.6	4235.8	4315.0	4421.4	4451.9	4472.3
17.5°	3553.4	3672.2	3786.5	3934.8	4061.5	4063.8	4178.1	4256.1	4360.3	4385.2	4398.7
20°	3460.6	3578.3	3692.6	3845.4	3969.8	3973.2	4085.3	4157.7	4257.3	4277.7	4281.0
22.5°	3362.1	3471.9	3586.2	3737.9	3857.8	3860.1	3971.0	4038.9	4123.7	4133.9	4143.0
25°	3250.1	3357.6	3465.1	3615.6	3729.9	3736.7	3837.4	3897.4	3975.5	3983.4	3986.8
27.5°	3133.5	3221.8	3324.8	3453.8	3569.2	3564.7	3659.8	3727.7	3797.8	3793.3	3792.2
30°	3015.9	3089.4	3152.8	3277.3	3362.1	3365.5	3454.9	3487.8	3561.3	3552.3	3551.1
32.5°	2933.2	2952.5	2969.5	3032.8	3113.2	3084.9	3146.0	3186.7	3237.7	3234.3	3235.4
35°	2781.6	2746.5	2695.6	2704.7	2753.3	2709.2	2742.0	2740.9	2792.9	2780.5	2795.2
37.5°	2522.5	2422.9	2309.7	2245.2	2254.3	2198.8	2187.5	2214.6	2232.8	2197.7	2210.1
40°	2246.3	2099.2	1922.7	1775.6	1767.6	1698.6	1686.2	1659.0	1694.1	1664.7	1673.7
42.5°	2042.6	1848.0	1616.0	1437.2	1398.7	1341.0	1307.1	1302.5	1312.7	1292.3	1286.7
45°	1886.5	1679.4	1413.4	1208.6	1165.6	1103.4	1069.4	1057.0	1058.1	1051.3	1045.6
47.5°	1703.1	1494.9	1225.6	1016.2	967.6	908.7	874.8	866.8	871.4	862.3	855.5
50°	1449.6	1262.9	1017.4	826.1	783.1	740.1	712.9	705.0	703.9	697.1	692.6
52.5°	1176.9	1021.9	809.1	649.6	611.1	569.2	550.0	539.8	540.9	534.1	527.4
55°	911.0	814.8	626.9	491.1	456.1	423.2	405.1	392.7	389.3	382.5	379.1
57.5°	677.9	613.4	469.6	354.2	333.8	302.2	284.0	269.3	267.1	263.7	262.5
60°	475.3	428.9	330.4	252.4	228.6	209.4	191.2	176.5	169.7	168.6	165.2
62.5°	307.8	279.5	217.3	168.6	150.5	136.9	118.8	108.6	104.1	99.6	100.7
65°	191.2	169.7	135.8	108.6	98.5	88.3	74.7	65.6	61.1	56.6	57.7
67.5°	118.8	106.4	86.0	70.2	63.4	55.5	45.3	38.5	35.1	31.7	29.4
70°	80.3	69.0	58.8	49.8	45.3	39.6	32.8	27.2	24.9	22.6	20.4
72.5°	56.6	50.9	43.0	37.3	33.9	29.4	24.9	21.5	19.2	17.0	14.7
75°	40.7	36.2	31.7	27.2	24.9	22.6	19.2	17.0	14.7	12.4	10.2
77.5°	29.4	26.0	22.6	20.4	19.2	15.8	13.6	12.4	11.3	9.1	6.8
80°	20.4	18.1	14.7	13.6	13.6	11.3	10.2	9.1	7.9	5.7	4.5
82.5°	13.6	12.4	11.3	10.2	9.1	7.9	7.9	5.7	4.5	3.4	2.3
85°	10.2	9.1	7.9	6.8	6.8	5.7	4.5	3.4	3.4	2.3	1.1
87.5°	5.7	5.7	4.5	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1
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: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4345.5	4348.9	4368.2	4353.5	4390.8	4418.0	4404.4	4435.0	4424.8	4422.5	4457.6
5°	4375.0	4382.9	4408.9	4395.3	4436.1	4465.5	4451.9	4485.9	4475.7	4473.4	4509.6
7.5°	4431.6	4439.5	4462.1	4450.8	4493.8	4519.8	4502.8	4540.2	4526.6	4525.5	4560.6
10°	4502.8	4514.2	4533.4	4522.1	4561.7	4584.3	4567.4	4603.6	4591.1	4585.5	4623.9
12.5°	4556.0	4564.0	4583.2	4574.1	4612.6	4629.6	4614.9	4650.0	4634.1	4629.6	4663.5
15°	4543.6	4551.5	4567.4	4559.4	4595.6	4611.5	4592.2	4630.7	4614.9	4605.8	4636.4
17.5°	4464.4	4468.9	4480.2	4472.3	4510.8	4521.0	4499.5	4537.9	4523.2	4507.4	4536.8
20°	4347.8	4345.5	4352.3	4348.9	4380.6	4386.3	4372.7	4401.0	4384.0	4375.0	4391.9
22.5°	4203.0	4200.7	4205.2	4196.2	4227.9	4231.3	4210.9	4244.8	4227.9	4210.9	4239.2
25°	4042.3	4029.8	4027.6	4030.9	4052.5	4055.8	4034.3	4059.2	4037.7	4024.2	4051.3
27.5°	3844.2	3828.4	3825.0	3828.4	3849.9	3834.0	3815.9	3834.0	3812.5	3800.1	3817.1
30°	3599.8	3577.2	3567.0	3560.2	3582.8	3577.2	3535.3	3555.7	3521.7	3503.6	3516.0
32.5°	3270.5	3258.0	3230.9	3215.0	3236.5	3193.5	3167.5	3167.5	3153.9	3123.4	3130.2
35°	2813.3	2794.1	2769.2	2755.6	2759.0	2701.3	2658.3	2667.3	2622.0	2614.1	2617.5
37.5°	2235.0	2203.3	2194.3	2166.0	2172.8	2121.9	2063.0	2064.1	2040.4	2015.5	2007.6
40°	1679.4	1673.7	1664.7	1640.9	1650.0	1594.5	1571.9	1573.0	1557.2	1539.0	1548.1
42.5°	1298.0	1279.9	1274.2	1266.3	1268.6	1259.5	1230.1	1233.5	1219.9	1215.4	1210.9
45°	1054.7	1035.5	1021.9	1028.7	1028.7	1018.5	1007.2	1014.0	1007.2	998.1	1002.6
47.5°	869.1	851.0	844.2	843.1	851.0	844.2	832.9	835.2	834.0	830.6	828.4
50°	693.7	689.2	683.5	680.1	683.5	681.3	671.1	676.7	680.1	668.8	672.2
52.5°	528.5	528.5	527.4	519.4	526.2	519.4	518.3	520.6	517.2	512.6	511.5
55°	387.0	383.6	378.0	376.8	379.1	376.8	374.6	375.7	378.0	366.7	366.7
57.5°	264.8	262.5	259.1	259.1	263.7	258.0	254.6	259.1	254.6	250.1	250.1
60°	169.7	168.6	165.2	165.2	165.2	164.1	160.7	161.8	164.1	157.3	158.4
62.5°	101.8	98.5	97.3	96.2	97.3	96.2	96.2	95.1	93.9	93.9	90.5
65°	55.5	53.2	50.9	52.1	52.1	50.9	50.9	50.9	48.7	47.5	46.4
67.5°	28.3	26.0	26.0	24.9	24.9	24.9	24.9	23.8	23.8	23.8	22.6
70°	18.1	17.0	15.8	15.8	15.8	14.7	14.7	14.7	14.7	14.7	13.6
72.5°	12.4	11.3	10.2	10.2	10.2	9.1	9.1	9.1	9.1	7.9	7.9
75°	9.1	7.9	6.8	6.8	6.8	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	2.3
80°	3.4	3.4	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
82.5°	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.1	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: P250892

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4445.1	4436.1	4441.7	4483.6	4465.5	4459.8	4412.3	4454.2
5°	4498.3	4491.5	4491.5	4539.1	4517.6	4513.0	4466.6	4502.8
7.5°	4548.1	4541.3	4542.5	4591.1	4574.1	4567.4	4521.0	4557.2
10°	4612.6	4608.1	4609.2	4655.6	4637.5	4630.7	4583.2	4620.5
12.5°	4651.1	4644.3	4644.3	4694.1	4673.7	4663.5	4618.3	4654.5
15°	4621.7	4611.5	4611.5	4661.3	4638.6	4623.9	4584.3	4618.3
17.5°	4521.0	4510.8	4510.8	4553.8	4536.8	4515.3	4474.6	4506.2
20°	4380.6	4368.2	4364.8	4414.6	4390.8	4371.6	4335.4	4365.9
22.5°	4222.2	4216.5	4206.4	4256.1	4234.6	4214.3	4175.8	4199.6
25°	4032.1	4023.0	4012.8	4061.5	4040.0	4019.6	3989.1	4008.3
27.5°	3795.6	3796.7	3791.0	3829.5	3808.0	3796.7	3759.4	3791.0
30°	3509.3	3496.8	3492.3	3537.5	3517.2	3502.5	3456.1	3486.6
32.5°	3135.8	3117.7	3093.9	3144.9	3109.8	3097.3	3057.7	3101.9
35°	2592.6	2587.0	2565.5	2608.5	2589.2	2566.6	2541.7	2579.0
37.5°	2004.2	2008.7	2006.4	2017.7	2006.4	1991.7	1964.6	1951.0
40°	1530.0	1518.7	1509.6	1530.0	1506.2	1506.2	1490.4	1507.4
42.5°	1199.6	1195.0	1206.3	1210.9	1197.3	1195.0	1192.8	1191.6
45°	990.2	990.2	992.5	997.0	992.5	990.2	983.4	978.9
47.5°	815.9	820.4	815.9	830.6	822.7	820.4	806.9	812.5
50°	660.9	655.2	660.9	665.4	666.5	659.8	653.0	656.4
52.5°	512.6	503.6	501.3	508.1	503.6	503.6	499.1	497.9
55°	361.0	364.4	358.7	364.4	362.1	358.7	355.3	359.9
57.5°	244.4	245.6	243.3	246.7	241.0	242.2	241.0	239.9
60°	158.4	153.9	153.9	157.3	151.6	151.6	150.5	150.5
62.5°	90.5	89.4	89.4	88.3	87.1	87.1	87.1	84.9
65°	46.4	45.3	44.1	44.1	44.1	44.1	43.0	43.0
67.5°	22.6	21.5	21.5	22.6	21.5	21.5	21.5	21.5
70°	13.6	13.6	12.4	13.6	12.4	12.4	12.4	12.4
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)