

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: P249514

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60827 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5865.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

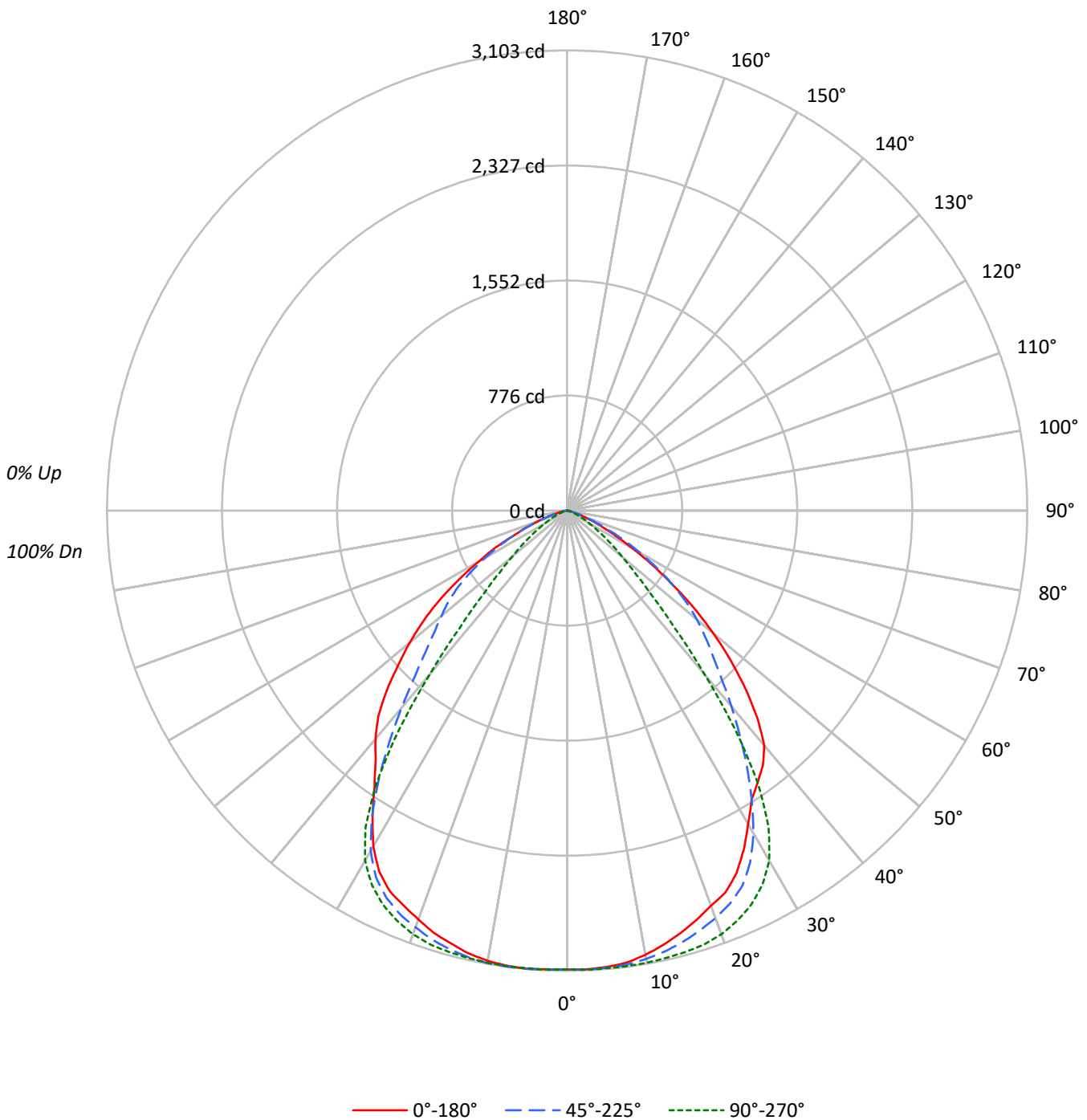
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95423	95423	95423
5°	95633	95890	95995
10°	95229	96948	96532
15°	94176	98365	96510
20°	93045	99749	96260
25°	91838	99861	96360
30°	86884	97053	93094
35°	84289	84349	85226
40°	83245	58038	80906
45°	74175	34844	75187
50°	61674	23190	66457
55°	46256	15983	56347
60°	31348	10651	42511
65°	18905	6910	29208
70°	10486	3742	17969
75°	4754	1585	9305
80°	4120	1776	6482
85°	4706	2335	6475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	5.0
10°-20°	857.7	14.6
20°-30°	1301.8	22.2
30°-40°	1367.3	23.3
40°-50°	1025.1	17.5
50°-60°	657.7	11.2
60°-70°	281.4	4.8
70°-80°	66.5	1.1
80°-90°	12.4	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°	2454.8	41.9
0°-40°	3822.0	65.2
0°-60°	5504.8	93.9
0°-90°	5865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5865.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3094	3094	3094	3094	3094	
5°	3090	3094	3098	3103	3101	293
15°	2950	3012	3081	3061	3023	832
25°	2699	2794	2935	2882	2832	1233
35°	2239	2114	2241	2214	2264	1405
45°	1701	1390	799	1350	1724	1303
55°	860	860	297	897	1048	780
65°	259	306	95	394	400	277
75°	40	46	13	80	78	58
85°	13	8	7	13	18	14
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°	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5
2.5°	3096.2	3099.5	3097.8	3097.8	3096.2	3097.8	3097.8	3101.2	3101.2	3097.8	3096.2
5°	3089.5	3092.8	3092.8	3089.5	3089.5	3097.8	3092.8	3096.2	3096.2	3094.5	3094.5
7.5°	3074.6	3074.6	3081.2	3076.2	3076.2	3081.2	3079.5	3082.9	3086.2	3087.9	3087.9
10°	3041.3	3044.7	3046.3	3046.3	3048.0	3053.0	3056.3	3062.9	3066.2	3069.6	3071.2
12.5°	2999.8	3004.8	3006.5	3004.8	3009.8	3016.4	3024.7	3033.0	3038.0	3044.7	3049.7
15°	2950.0	2950.0	2953.3	2958.3	2961.6	2971.6	2979.9	2989.8	3003.1	3011.5	3019.7
17.5°	2895.2	2898.5	2903.5	2903.5	2910.1	2926.7	2931.7	2946.7	2961.6	2969.9	2986.5
20°	2835.4	2838.7	2843.7	2847.0	2855.3	2868.6	2878.6	2891.8	2908.5	2923.4	2940.0
22.5°	2788.9	2782.2	2785.5	2788.9	2797.2	2808.8	2820.4	2837.0	2853.6	2868.6	2885.2
25°	2699.2	2700.8	2705.8	2709.1	2719.1	2729.1	2742.4	2762.3	2777.2	2793.9	2812.1
27.5°	2577.9	2579.6	2587.9	2587.9	2596.2	2612.8	2621.1	2637.7	2657.7	2674.2	2695.9
30°	2440.1	2443.4	2443.4	2450.0	2455.0	2463.3	2471.6	2488.2	2498.2	2513.1	2543.0
32.5°	2313.8	2317.1	2315.5	2313.8	2308.8	2307.2	2305.5	2308.8	2312.2	2317.1	2328.7
35°	2239.1	2230.8	2224.1	2212.5	2199.2	2182.6	2167.6	2147.7	2129.4	2114.5	2097.9
37.5°	2167.6	2166.0	2156.0	2139.4	2112.8	2082.9	2048.1	2004.9	1961.7	1915.2	1870.3
40°	2068.0	2063.0	2054.7	2031.4	2001.5	1965.0	1918.5	1865.3	1795.6	1724.1	1651.1
42.5°	1898.5	1900.2	1890.2	1872.0	1843.8	1808.8	1760.7	1702.6	1627.8	1543.1	1448.4
45°	1700.9	1700.9	1697.6	1682.6	1662.7	1634.4	1597.9	1549.7	1476.7	1390.3	1288.9
47.5°	1494.9	1496.6	1491.6	1488.3	1480.0	1461.7	1435.1	1398.6	1347.1	1264.0	1162.7
50°	1285.6	1285.6	1293.9	1292.3	1292.3	1285.6	1274.0	1252.4	1207.6	1141.1	1046.5
52.5°	1076.3	1079.7	1084.7	1091.3	1099.6	1112.9	1099.6	1089.6	1061.4	1009.9	928.5
55°	860.4	863.7	872.0	883.7	893.6	906.9	910.2	910.2	895.3	860.4	799.0
57.5°	676.0	671.1	677.7	687.7	701.0	714.3	724.2	735.8	734.2	710.9	661.1
60°	508.3	509.9	514.9	524.9	534.9	546.5	559.8	569.7	574.7	563.1	531.5
62.5°	370.4	370.4	377.0	387.0	392.0	408.6	416.9	421.9	426.9	425.2	405.3
65°	259.1	262.4	265.8	270.8	275.7	285.7	290.7	300.6	304.0	305.6	290.7
67.5°	182.7	177.7	181.1	184.4	189.4	196.0	206.0	206.0	210.9	210.9	201.0
70°	116.3	116.3	117.9	122.9	126.2	127.9	131.2	134.5	139.5	137.9	137.9
72.5°	78.1	76.4	78.1	79.7	81.4	86.4	86.4	88.0	91.4	93.0	86.4
75°	39.9	41.5	44.8	43.2	48.2	44.8	46.5	51.5	49.8	46.5	46.5
77.5°	33.2	33.2	33.2	31.6	34.9	34.9	33.2	36.5	34.9	34.9	33.2
80°	23.2	24.9	23.2	21.6	23.2	21.6	21.6	21.6	21.6	21.6	19.9
82.5°	18.3	15.0	16.6	15.0	16.6	16.6	15.0	13.3	13.3	15.0	13.3
85°	13.3	10.0	11.6	11.6	10.0	10.0	10.0	10.0	10.0	8.3	8.3
87.5°	8.3	5.0	5.0	5.0	6.6	6.6	6.6	5.0	6.6	6.6	3.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5
2.5°	3099.5	3097.8	3101.2	3099.5	3099.5	3097.8	3099.5	3097.8	3101.2	3094.5	3096.2
5°	3099.5	3096.2	3097.8	3099.5	3101.2	3097.8	3097.8	3097.8	3101.2	3097.8	3099.5
7.5°	3092.8	3091.2	3096.2	3099.5	3097.8	3096.2	3099.5	3097.8	3101.2	3099.5	3102.8
10°	3079.5	3081.2	3084.5	3089.5	3091.2	3092.8	3096.2	3096.2	3101.2	3094.5	3097.8
12.5°	3059.6	3066.2	3074.6	3077.9	3084.5	3084.5	3087.9	3089.5	3092.8	3091.2	3096.2
15°	3034.7	3043.0	3053.0	3061.3	3069.6	3074.6	3079.5	3081.2	3086.2	3081.2	3082.9
17.5°	3004.8	3014.7	3029.7	3039.7	3053.0	3058.0	3064.6	3067.9	3072.9	3069.6	3071.2
20°	2963.3	2974.9	2991.5	3006.5	3014.7	3026.4	3034.7	3039.7	3043.0	3039.7	3041.3
22.5°	2905.1	2921.8	2943.3	2955.0	2971.6	2981.5	2983.2	2994.8	3003.1	2994.8	2998.2
25°	2837.0	2853.6	2870.3	2895.2	2910.1	2921.8	2933.4	2935.0	2943.3	2941.7	2940.0
27.5°	2724.1	2745.7	2773.9	2793.9	2813.8	2832.1	2845.3	2848.6	2857.0	2853.6	2855.3
30°	2569.6	2592.9	2619.5	2651.0	2679.2	2697.5	2714.1	2725.7	2734.0	2729.1	2727.4
32.5°	2350.4	2373.6	2401.9	2433.4	2466.6	2493.2	2513.1	2528.1	2538.1	2534.7	2526.4
35°	2099.6	2106.2	2124.5	2149.4	2177.6	2205.8	2224.1	2240.7	2252.3	2255.7	2255.7
37.5°	1842.1	1820.5	1807.2	1807.2	1823.8	1835.4	1852.0	1862.0	1880.3	1886.9	1891.9
40°	1592.9	1543.1	1496.6	1461.7	1438.5	1436.8	1436.8	1441.8	1458.4	1480.0	1499.9
42.5°	1370.3	1290.6	1219.2	1154.4	1107.9	1081.3	1069.7	1071.4	1084.7	1104.6	1137.8
45°	1192.6	1093.0	1003.3	925.2	862.1	820.5	800.6	799.0	808.9	832.2	868.7
47.5°	1054.8	948.4	847.1	757.4	689.3	644.5	621.2	614.6	621.2	642.8	686.0
50°	940.1	830.5	725.9	632.8	559.8	513.3	491.7	483.4	491.7	509.9	553.1
52.5°	833.8	720.9	622.9	533.2	455.1	415.2	392.0	387.0	392.0	413.6	448.5
55°	710.9	614.6	518.2	428.5	360.5	320.6	302.3	297.3	302.3	322.3	358.8
57.5°	589.7	506.6	421.9	340.5	282.4	247.5	230.9	224.2	235.8	249.1	292.3
60°	476.7	410.3	338.8	267.4	219.3	187.7	174.4	172.7	176.1	192.7	222.6
62.5°	373.7	318.9	262.4	204.3	164.4	151.2	134.5	132.9	136.2	146.2	169.4
65°	269.1	234.2	191.0	149.5	117.9	99.7	93.0	94.7	98.0	104.7	126.2
67.5°	187.7	162.8	132.9	104.7	81.4	73.1	66.5	64.8	66.5	78.1	89.7
70°	126.2	111.3	89.7	79.7	56.5	44.8	46.5	41.5	48.2	48.2	58.1
72.5°	83.0	73.1	59.8	46.5	39.9	31.6	31.6	29.9	33.2	34.9	43.2
75°	43.2	33.2	33.2	23.2	16.6	8.3	15.0	13.3	11.6	13.3	16.6
77.5°	29.9	24.9	23.2	18.3	16.6	13.3	13.3	13.3	13.3	15.0	16.6
80°	18.3	18.3	13.3	11.6	10.0	8.3	10.0	10.0	10.0	10.0	11.6
82.5°	11.6	10.0	10.0	8.3	8.3	6.6	6.6	6.6	6.6	6.6	10.0
85°	10.0	6.6	6.6	5.0	6.6	11.6	5.0	6.6	6.6	6.6	5.0
87.5°	3.3	5.0	5.0	5.0	3.3	1.7	3.3	5.0	5.0	8.3	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5	3094.5
2.5°	3099.5	3101.2	3101.2	3099.5	3099.5	3096.2	3102.8	3097.8	3099.5	3106.1	3101.2
5°	3102.8	3104.4	3104.4	3102.8	3102.8	3102.8	3104.4	3104.4	3102.8	3101.2	3104.4
7.5°	3109.4	3107.8	3107.8	3104.4	3104.4	3101.2	3104.4	3099.5	3102.8	3099.5	3104.4
10°	3101.2	3102.8	3101.2	3099.5	3099.5	3097.8	3097.8	3092.8	3094.5	3089.5	3092.8
12.5°	3096.2	3094.5	3094.5	3091.2	3087.9	3084.5	3082.9	3077.9	3077.9	3066.2	3071.2
15°	3082.9	3084.5	3079.5	3072.9	3069.6	3061.3	3058.0	3051.3	3044.7	3036.4	3038.0
17.5°	3071.2	3066.2	3059.6	3053.0	3039.7	3033.0	3026.4	3016.4	3013.1	3003.1	2999.8
20°	3036.4	3033.0	3024.7	3013.1	3004.8	2989.8	2983.2	2973.3	2964.9	2955.0	2950.0
22.5°	2991.5	2988.2	2978.2	2966.6	2953.3	2946.7	2940.0	2921.8	2913.4	2903.5	2901.8
25°	2935.0	2930.0	2920.1	2906.8	2900.1	2881.9	2875.2	2861.9	2858.6	2848.6	2847.0
27.5°	2848.6	2842.0	2830.4	2813.8	2802.1	2790.5	2783.9	2773.9	2770.6	2760.6	2759.0
30°	2719.1	2710.8	2687.5	2680.9	2661.0	2649.3	2649.3	2636.0	2637.7	2631.1	2631.1
32.5°	2514.8	2501.5	2483.2	2469.9	2456.6	2450.0	2450.0	2445.0	2448.4	2448.4	2451.7
35°	2244.0	2225.8	2215.8	2207.5	2207.5	2214.1	2234.1	2239.1	2249.0	2257.3	2264.0
37.5°	1896.9	1895.2	1906.9	1916.8	1941.7	1970.0	2004.9	2034.8	2063.0	2082.9	2102.9
40°	1521.5	1563.0	1596.2	1642.8	1680.9	1735.8	1798.9	1850.4	1898.5	1933.5	1970.0
42.5°	1187.6	1240.8	1310.6	1378.6	1446.8	1521.5	1604.6	1676.0	1739.1	1787.3	1825.5
45°	925.2	998.3	1083.0	1169.4	1257.4	1350.4	1436.8	1509.9	1576.3	1626.2	1664.4
47.5°	745.8	825.5	921.9	1016.6	1116.2	1214.2	1310.6	1373.7	1428.5	1468.3	1503.2
50°	616.2	701.0	802.3	910.2	1009.9	1107.9	1191.0	1252.4	1297.3	1332.1	1353.7
52.5°	514.9	604.6	712.6	820.5	920.2	1009.9	1084.7	1131.2	1167.7	1192.6	1212.5
55°	425.2	511.6	612.9	714.3	812.2	896.9	958.4	993.3	1021.5	1036.5	1048.1
57.5°	347.2	426.9	519.9	612.9	697.6	767.4	815.6	850.4	863.7	875.4	873.7
60°	272.4	347.2	431.9	511.6	584.7	641.1	676.0	696.0	705.9	710.9	707.6
62.5°	214.3	282.4	347.2	416.9	470.1	518.2	551.5	551.5	556.4	558.1	563.1
65°	159.4	210.9	267.4	318.9	362.1	393.7	412.0	416.9	423.6	421.9	418.6
67.5°	117.9	156.1	197.6	235.8	265.8	285.7	299.0	310.6	309.0	305.6	304.0
70°	81.4	106.3	142.9	166.1	187.7	207.6	210.9	212.6	214.3	215.9	212.6
72.5°	56.5	74.7	94.7	114.6	127.9	136.2	144.5	146.2	146.2	146.2	144.5
75°	28.2	38.2	56.5	64.8	76.4	79.7	86.4	86.4	91.4	84.7	83.0
77.5°	24.9	29.9	39.9	46.5	51.5	56.5	58.1	63.1	61.5	58.1	59.8
80°	15.0	18.3	24.9	28.2	34.9	36.5	38.2	39.9	38.2	39.9	39.9
82.5°	11.6	13.3	16.6	16.6	21.6	21.6	23.2	23.2	24.9	24.9	24.9
85°	6.6	11.6	10.0	19.9	13.3	13.3	16.6	19.9	16.6	16.6	19.9
87.5°	6.6	6.6	5.0	6.6	6.6	6.6	8.3	10.0	10.0	11.6	10.0
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: P249514

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3094.5	3094.5	3094.5	3094.5
2.5°	3099.5	3102.8	3097.8	3096.2
5°	3104.4	3104.4	3101.2	3101.2
7.5°	3104.4	3104.4	3099.5	3096.2
10°	3091.2	3091.2	3086.2	3082.9
12.5°	3066.2	3066.2	3064.6	3059.6
15°	3034.7	3034.7	3028.0	3023.1
17.5°	2991.5	2994.8	2986.5	2986.5
20°	2945.0	2943.3	2936.7	2933.4
22.5°	2896.8	2893.5	2891.8	2881.9
25°	2845.3	2842.0	2837.0	2832.1
27.5°	2757.3	2755.7	2750.7	2744.0
30°	2622.8	2621.1	2614.5	2614.5
32.5°	2448.4	2446.7	2440.1	2441.7
35°	2267.3	2274.0	2270.6	2264.0
37.5°	2116.1	2121.1	2124.5	2121.1
40°	1989.9	2004.9	2006.5	2009.9
42.5°	1855.4	1875.3	1882.0	1885.2
45°	1694.2	1712.5	1727.5	1724.1
47.5°	1529.8	1543.1	1556.4	1546.4
50°	1372.0	1380.3	1385.3	1385.3
52.5°	1222.5	1222.5	1220.9	1222.5
55°	1051.4	1051.4	1044.8	1048.1
57.5°	872.0	875.4	870.4	862.1
60°	705.9	697.6	694.3	689.3
62.5°	549.8	549.8	538.2	553.1
65°	412.0	407.0	402.0	400.3
67.5°	299.0	297.3	292.3	290.7
70°	210.9	204.3	202.6	199.3
72.5°	141.2	141.2	137.9	137.9
75°	86.4	78.1	76.4	78.1
77.5°	59.8	58.1	58.1	56.5
80°	39.9	38.2	41.5	36.5
82.5°	24.9	26.6	24.9	26.6
85°	16.6	19.9	18.3	18.3
87.5°	10.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)