

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: P249487

Luminaire Tested: **LD8B60D010 ER8B60950 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249487
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: LD8B60D010 ER8B60950 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5160.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

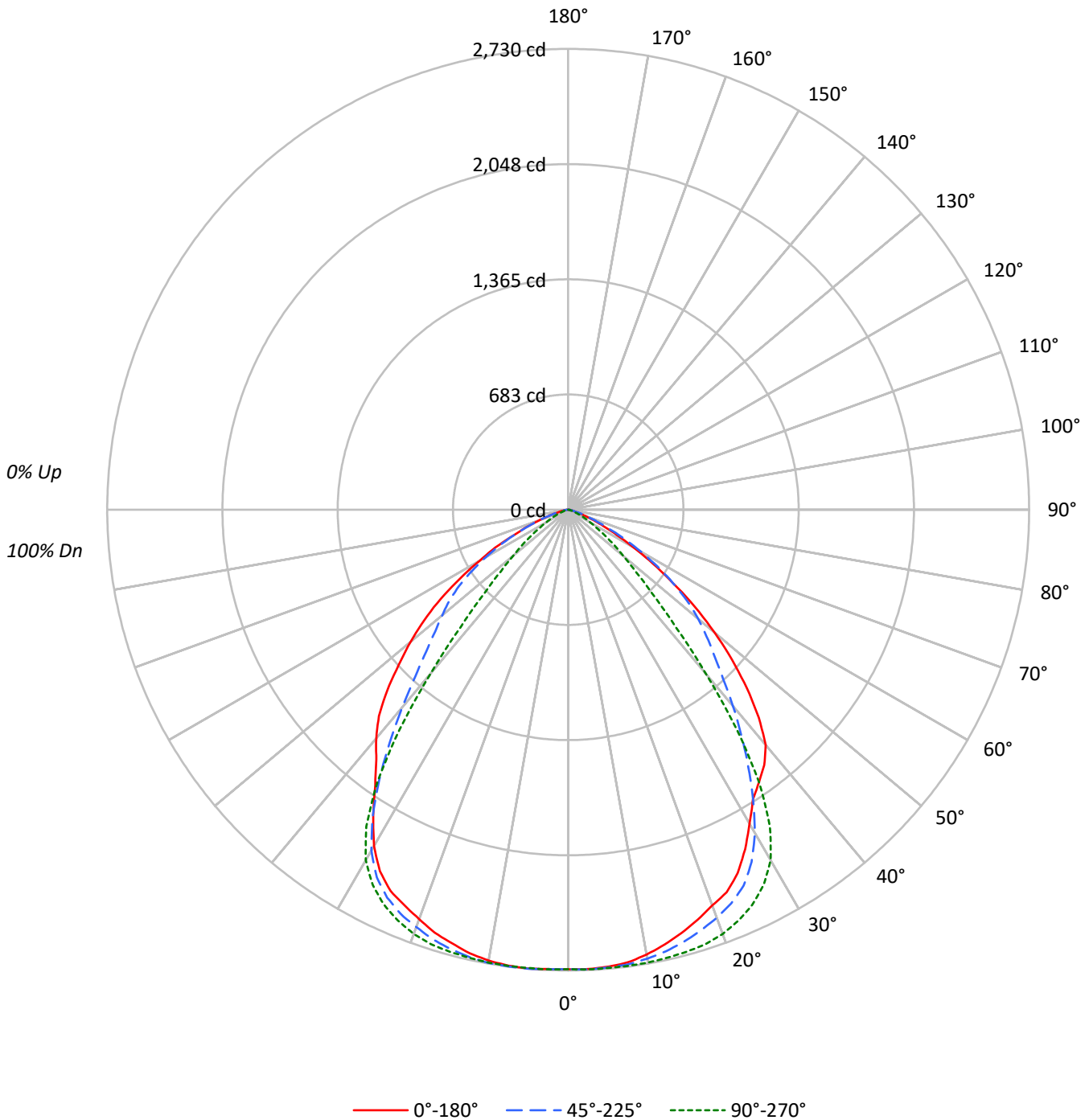
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83952	83952	83952
5°	84136	84362	84455
10°	83782	85294	84928
15°	82856	86540	84909
20°	81861	87758	84690
25°	80797	87857	84774
30°	76440	85388	81903
35°	74155	74212	74983
40°	73238	51062	71181
45°	65257	30653	66151
50°	54262	20403	58469
55°	40697	14064	49573
60°	27580	9374	37404
65°	16636	6078	25698
70°	9223	3291	15814
75°	4182	1394	8185
80°	3640	1563	5700
85°	4140	2052	5696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	5.0
10°-20°	754.6	14.6
20°-30°	1145.3	22.2
30°-40°	1202.9	23.3
40°-50°	901.9	17.5
50°-60°	578.7	11.2
60°-70°	247.5	4.8
70°-80°	58.5	1.1
80°-90°	10.9	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°	2159.7	41.9
0°-40°	3362.6	65.2
0°-60°	4843.1	93.9
0°-90°	5160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5160.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2722	2722	2722	2722	2722	
5°	2718	2722	2725	2730	2728	258
15°	2595	2650	2711	2693	2660	732
25°	2375	2458	2582	2536	2492	1085
35°	1970	1860	1971	1948	1992	1236
45°	1496	1223	703	1188	1517	1146
55°	757	757	262	789	922	687
65°	228	269	83	346	352	243
75°	35	41	12	70	69	51
85°	12	7	6	12	16	12
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°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2724.0	2726.9	2725.4	2725.4	2724.0	2725.4	2725.4	2728.4	2728.4	2725.4	2724.0
5°	2718.1	2721.1	2721.1	2718.1	2718.1	2725.4	2721.1	2724.0	2724.0	2722.5	2722.5
7.5°	2705.0	2705.0	2710.8	2706.5	2706.5	2710.8	2709.4	2712.3	2715.2	2716.7	2716.7
10°	2675.7	2678.7	2680.1	2680.1	2681.6	2686.0	2688.9	2694.8	2697.7	2700.6	2702.1
12.5°	2639.2	2643.6	2645.1	2643.6	2648.0	2653.8	2661.2	2668.5	2672.8	2678.7	2683.1
15°	2595.4	2595.4	2598.3	2602.7	2605.6	2614.4	2621.7	2630.4	2642.1	2649.5	2656.8
17.5°	2547.2	2550.1	2554.5	2554.5	2560.3	2574.9	2579.3	2592.5	2605.6	2612.9	2627.5
20°	2494.6	2497.5	2501.9	2504.8	2512.1	2523.8	2532.5	2544.2	2558.9	2572.0	2586.6
22.5°	2453.6	2447.8	2450.7	2453.6	2461.0	2471.2	2481.4	2496.0	2510.6	2523.8	2538.4
25°	2374.7	2376.2	2380.6	2383.5	2392.3	2401.0	2412.7	2430.2	2443.4	2458.0	2474.1
27.5°	2268.0	2269.5	2276.8	2276.8	2284.1	2298.7	2306.0	2320.6	2338.2	2352.8	2371.8
30°	2146.8	2149.7	2149.7	2155.5	2159.9	2167.2	2174.5	2189.1	2197.9	2211.0	2237.4
32.5°	2035.7	2038.6	2037.1	2035.7	2031.3	2029.8	2028.4	2031.3	2034.2	2038.6	2048.8
35°	1969.9	1962.6	1956.8	1946.5	1934.9	1920.2	1907.1	1889.6	1873.5	1860.3	1845.7
37.5°	1907.1	1905.6	1896.8	1882.2	1858.8	1832.6	1801.9	1763.9	1725.9	1685.0	1645.5
40°	1819.4	1815.0	1807.7	1787.3	1760.9	1728.8	1687.9	1641.1	1579.7	1516.9	1452.6
42.5°	1670.3	1671.8	1663.0	1646.9	1622.1	1591.4	1549.0	1497.9	1432.1	1357.6	1274.3
45°	1496.4	1496.4	1493.5	1480.3	1462.8	1438.0	1405.8	1363.5	1299.2	1223.1	1134.0
47.5°	1315.2	1316.7	1312.3	1309.4	1302.1	1286.0	1262.6	1230.5	1185.2	1112.1	1022.9
50°	1131.1	1131.1	1138.4	1136.9	1136.9	1131.1	1120.9	1101.9	1062.4	1004.0	920.7
52.5°	947.0	949.9	954.3	960.1	967.4	979.1	967.4	958.7	933.8	888.5	816.9
55°	757.0	759.9	767.2	777.4	786.2	797.9	800.8	800.8	787.7	757.0	702.9
57.5°	594.8	590.4	596.3	605.0	616.7	628.4	637.2	647.4	645.9	625.5	581.6
60°	447.2	448.6	453.0	461.8	470.6	480.8	492.5	501.2	505.6	495.4	467.6
62.5°	325.9	325.9	331.7	340.5	344.9	359.5	366.8	371.2	375.6	374.1	356.6
65°	228.0	230.9	233.8	238.2	242.6	251.3	255.7	264.5	267.4	268.9	255.7
67.5°	160.8	156.4	159.3	162.2	166.6	172.5	181.2	181.2	185.6	185.6	176.8
70°	102.3	102.3	103.8	108.1	111.1	112.5	115.5	118.4	122.8	121.3	121.3
72.5°	68.7	67.2	68.7	70.2	71.6	76.0	76.0	77.5	80.4	81.8	76.0
75°	35.1	36.5	39.4	38.0	42.4	39.4	40.9	45.3	43.8	40.9	40.9
77.5°	29.2	29.2	29.2	27.8	30.7	30.7	29.2	32.1	30.7	30.7	29.2
80°	20.5	21.9	20.5	19.0	20.5	19.0	19.0	19.0	19.0	19.0	17.5
82.5°	16.1	13.2	14.6	13.2	14.6	14.6	13.2	11.7	11.7	13.2	11.7
85°	11.7	8.8	10.2	10.2	8.8	8.8	8.8	8.8	8.8	7.3	7.3
87.5°	7.3	4.4	4.4	4.4	5.8	5.8	5.8	4.4	5.8	5.8	2.9
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°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2726.9	2725.4	2728.4	2726.9	2726.9	2725.4	2726.9	2725.4	2728.4	2722.5	2724.0
5°	2726.9	2724.0	2725.4	2726.9	2728.4	2725.4	2725.4	2725.4	2728.4	2725.4	2726.9
7.5°	2721.1	2719.6	2724.0	2726.9	2725.4	2724.0	2726.9	2725.4	2728.4	2726.9	2729.8
10°	2709.4	2710.8	2713.8	2718.1	2719.6	2721.1	2724.0	2724.0	2728.4	2722.5	2725.4
12.5°	2691.8	2697.7	2705.0	2707.9	2713.8	2713.8	2716.7	2718.1	2721.1	2719.6	2724.0
15°	2669.9	2677.2	2686.0	2693.3	2700.6	2705.0	2709.4	2710.8	2715.2	2710.8	2712.3
17.5°	2643.6	2652.4	2665.5	2674.3	2686.0	2690.4	2696.2	2699.1	2703.5	2700.6	2702.1
20°	2607.1	2617.3	2631.9	2645.1	2652.4	2662.6	2669.9	2674.3	2677.2	2674.3	2675.7
22.5°	2555.9	2570.5	2589.5	2599.8	2614.4	2623.1	2624.6	2634.8	2642.1	2634.8	2637.8
25°	2496.0	2510.6	2525.2	2547.2	2560.3	2570.5	2580.8	2582.2	2589.5	2588.1	2586.6
27.5°	2396.6	2415.6	2440.5	2458.0	2475.5	2491.6	2503.3	2506.2	2513.6	2510.6	2512.1
30°	2260.7	2281.2	2304.6	2332.3	2357.2	2373.2	2387.9	2398.1	2405.4	2401.0	2399.6
32.5°	2067.8	2088.3	2113.1	2140.9	2170.1	2193.5	2211.0	2224.2	2233.0	2230.0	2222.7
35°	1847.2	1853.0	1869.1	1891.0	1915.8	1940.7	1956.8	1971.4	1981.6	1984.5	1984.5
37.5°	1620.7	1601.7	1590.0	1590.0	1604.6	1614.8	1629.4	1638.2	1654.3	1660.1	1664.5
40°	1401.4	1357.6	1316.7	1286.0	1265.6	1264.1	1264.1	1268.5	1283.1	1302.1	1319.6
42.5°	1205.6	1135.5	1072.6	1015.6	974.7	951.4	941.1	942.6	954.3	971.8	1001.0
45°	1049.3	961.6	882.7	814.0	758.4	721.9	704.4	702.9	711.7	732.1	764.3
47.5°	928.0	834.4	745.3	666.4	606.5	567.0	546.5	540.7	546.5	565.5	603.5
50°	827.1	730.7	638.6	556.8	492.5	451.6	432.6	425.3	432.6	448.6	486.6
52.5°	733.6	634.2	548.0	469.1	400.4	365.3	344.9	340.5	344.9	363.9	394.6
55°	625.5	540.7	455.9	377.0	317.1	282.1	266.0	261.6	266.0	283.5	315.7
57.5°	518.8	445.7	371.2	299.6	248.4	217.7	203.1	197.3	207.5	219.2	257.2
60°	419.4	361.0	298.1	235.3	192.9	165.1	153.4	152.0	154.9	169.5	195.8
62.5°	328.8	280.6	230.9	179.8	144.7	133.0	118.4	116.9	119.8	128.6	149.1
65°	236.7	206.1	168.1	131.5	103.8	87.7	81.8	83.3	86.2	92.1	111.1
67.5°	165.1	143.2	116.9	92.1	71.6	64.3	58.5	57.0	58.5	68.7	78.9
70°	111.1	97.9	78.9	70.2	49.7	39.4	40.9	36.5	42.4	42.4	51.1
72.5°	73.1	64.3	52.6	40.9	35.1	27.8	27.8	26.3	29.2	30.7	38.0
75°	38.0	29.2	29.2	20.5	14.6	7.3	13.2	11.7	10.2	11.7	14.6
77.5°	26.3	21.9	20.5	16.1	14.6	11.7	11.7	11.7	11.7	13.2	14.6
80°	16.1	16.1	11.7	10.2	8.8	7.3	8.8	8.8	8.8	8.8	10.2
82.5°	10.2	8.8	8.8	7.3	7.3	5.8	5.8	5.8	5.8	5.8	8.8
85°	8.8	5.8	5.8	4.4	5.8	10.2	4.4	5.8	5.8	5.8	4.4
87.5°	2.9	4.4	4.4	4.4	2.9	1.5	2.9	4.4	4.4	7.3	5.8
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°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2726.9	2728.4	2728.4	2726.9	2726.9	2724.0	2729.8	2725.4	2726.9	2732.7	2728.4
5°	2729.8	2731.3	2731.3	2729.8	2729.8	2729.8	2731.3	2731.3	2729.8	2728.4	2731.3
7.5°	2735.7	2734.2	2734.2	2731.3	2731.3	2728.4	2731.3	2726.9	2729.8	2726.9	2731.3
10°	2728.4	2729.8	2728.4	2726.9	2726.9	2725.4	2725.4	2721.1	2722.5	2718.1	2721.1
12.5°	2724.0	2722.5	2722.5	2719.6	2716.7	2713.8	2712.3	2707.9	2707.9	2697.7	2702.1
15°	2712.3	2713.8	2709.4	2703.5	2700.6	2693.3	2690.4	2684.5	2678.7	2671.4	2672.8
17.5°	2702.1	2697.7	2691.8	2686.0	2674.3	2668.5	2662.6	2653.8	2650.9	2642.1	2639.2
20°	2671.4	2668.5	2661.2	2650.9	2643.6	2630.4	2624.6	2615.9	2608.5	2599.8	2595.4
22.5°	2631.9	2629.0	2620.2	2610.0	2598.3	2592.5	2586.6	2570.5	2563.2	2554.5	2553.0
25°	2582.2	2577.8	2569.1	2557.4	2551.5	2535.5	2529.6	2517.9	2515.0	2506.2	2504.8
27.5°	2506.2	2500.4	2490.2	2475.5	2465.3	2455.1	2449.3	2440.5	2437.6	2428.8	2427.3
30°	2392.3	2384.9	2364.5	2358.7	2341.1	2330.9	2330.9	2319.2	2320.6	2314.8	2314.8
32.5°	2212.5	2200.8	2184.7	2173.0	2161.3	2155.5	2155.5	2151.1	2154.0	2154.0	2157.0
35°	1974.3	1958.2	1949.4	1942.2	1942.2	1948.0	1965.5	1969.9	1978.7	1986.0	1991.9
37.5°	1668.9	1667.4	1677.7	1686.4	1708.3	1733.2	1763.9	1790.2	1815.0	1832.6	1850.1
40°	1338.6	1375.2	1404.4	1445.3	1478.9	1527.1	1582.6	1628.0	1670.3	1701.0	1733.2
42.5°	1044.9	1091.6	1153.0	1212.9	1272.8	1338.6	1411.7	1474.5	1530.1	1572.4	1606.0
45°	814.0	878.3	952.8	1028.8	1106.3	1188.1	1264.1	1328.4	1386.8	1430.7	1464.3
47.5°	656.1	726.3	811.0	894.4	982.0	1068.2	1153.0	1208.6	1256.8	1291.8	1322.6
50°	542.2	616.7	705.8	800.8	888.5	974.7	1047.8	1101.9	1141.3	1172.0	1191.0
52.5°	453.0	531.9	626.9	721.9	809.6	888.5	954.3	995.2	1027.3	1049.3	1066.8
55°	374.1	450.1	539.3	628.4	714.6	789.1	843.2	873.9	898.7	911.9	922.1
57.5°	305.4	375.6	457.4	539.3	613.8	675.2	717.5	748.2	759.9	770.1	768.7
60°	239.7	305.4	380.0	450.1	514.4	564.1	594.8	612.3	621.1	625.5	622.5
62.5°	188.5	248.4	305.4	366.8	413.6	455.9	485.2	485.2	489.6	491.0	495.4
65°	140.3	185.6	235.3	280.6	318.6	346.3	362.4	366.8	372.7	371.2	368.3
67.5°	103.8	137.4	173.9	207.5	233.8	251.3	263.0	273.3	271.8	268.9	267.4
70°	71.6	93.5	125.7	146.1	165.1	182.7	185.6	187.0	188.5	190.0	187.0
72.5°	49.7	65.8	83.3	100.8	112.5	119.8	127.2	128.6	128.6	128.6	127.2
75°	24.9	33.6	49.7	57.0	67.2	70.2	76.0	76.0	80.4	74.5	73.1
77.5°	21.9	26.3	35.1	40.9	45.3	49.7	51.1	55.5	54.1	51.1	52.6
80°	13.2	16.1	21.9	24.9	30.7	32.1	33.6	35.1	33.6	35.1	35.1
82.5°	10.2	11.7	14.6	14.6	19.0	19.0	20.5	20.5	21.9	21.9	21.9
85°	5.8	10.2	8.8	17.5	11.7	11.7	14.6	17.5	14.6	14.6	17.5
87.5°	5.8	5.8	4.4	5.8	5.8	5.8	7.3	8.8	8.8	10.2	8.8
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: P249487

CATALOG NUMBER: LD8B60D010 ER8B60950 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2722.5	2722.5	2722.5	2722.5
2.5°	2726.9	2729.8	2725.4	2724.0
5°	2731.3	2731.3	2728.4	2728.4
7.5°	2731.3	2731.3	2726.9	2724.0
10°	2719.6	2719.6	2715.2	2712.3
12.5°	2697.7	2697.7	2696.2	2691.8
15°	2669.9	2669.9	2664.1	2659.7
17.5°	2631.9	2634.8	2627.5	2627.5
20°	2591.0	2589.5	2583.7	2580.8
22.5°	2548.6	2545.7	2544.2	2535.5
25°	2503.3	2500.4	2496.0	2491.6
27.5°	2425.9	2424.4	2420.0	2414.2
30°	2307.5	2306.0	2300.2	2300.2
32.5°	2154.0	2152.6	2146.8	2148.2
35°	1994.8	2000.6	1997.7	1991.9
37.5°	1861.8	1866.2	1869.1	1866.2
40°	1750.7	1763.9	1765.3	1768.3
42.5°	1632.4	1649.9	1655.7	1658.6
45°	1490.6	1506.7	1519.8	1516.9
47.5°	1345.9	1357.6	1369.3	1360.5
50°	1207.1	1214.4	1218.8	1218.8
52.5°	1075.6	1075.6	1074.1	1075.6
55°	925.0	925.0	919.2	922.1
57.5°	767.2	770.1	765.7	758.4
60°	621.1	613.8	610.8	606.5
62.5°	483.7	483.7	473.5	486.6
65°	362.4	358.0	353.6	352.2
67.5°	263.0	261.6	257.2	255.7
70°	185.6	179.8	178.3	175.4
72.5°	124.2	124.2	121.3	121.3
75°	76.0	68.7	67.2	68.7
77.5°	52.6	51.1	51.1	49.7
80°	35.1	33.6	36.5	32.1
82.5°	21.9	23.4	21.9	23.4
85°	14.6	17.5	16.1	16.1
87.5°	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)