

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: P249082

Luminaire Tested: **LD8B60D010 ER8B60827 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249082
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 ER8B60827 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5932.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

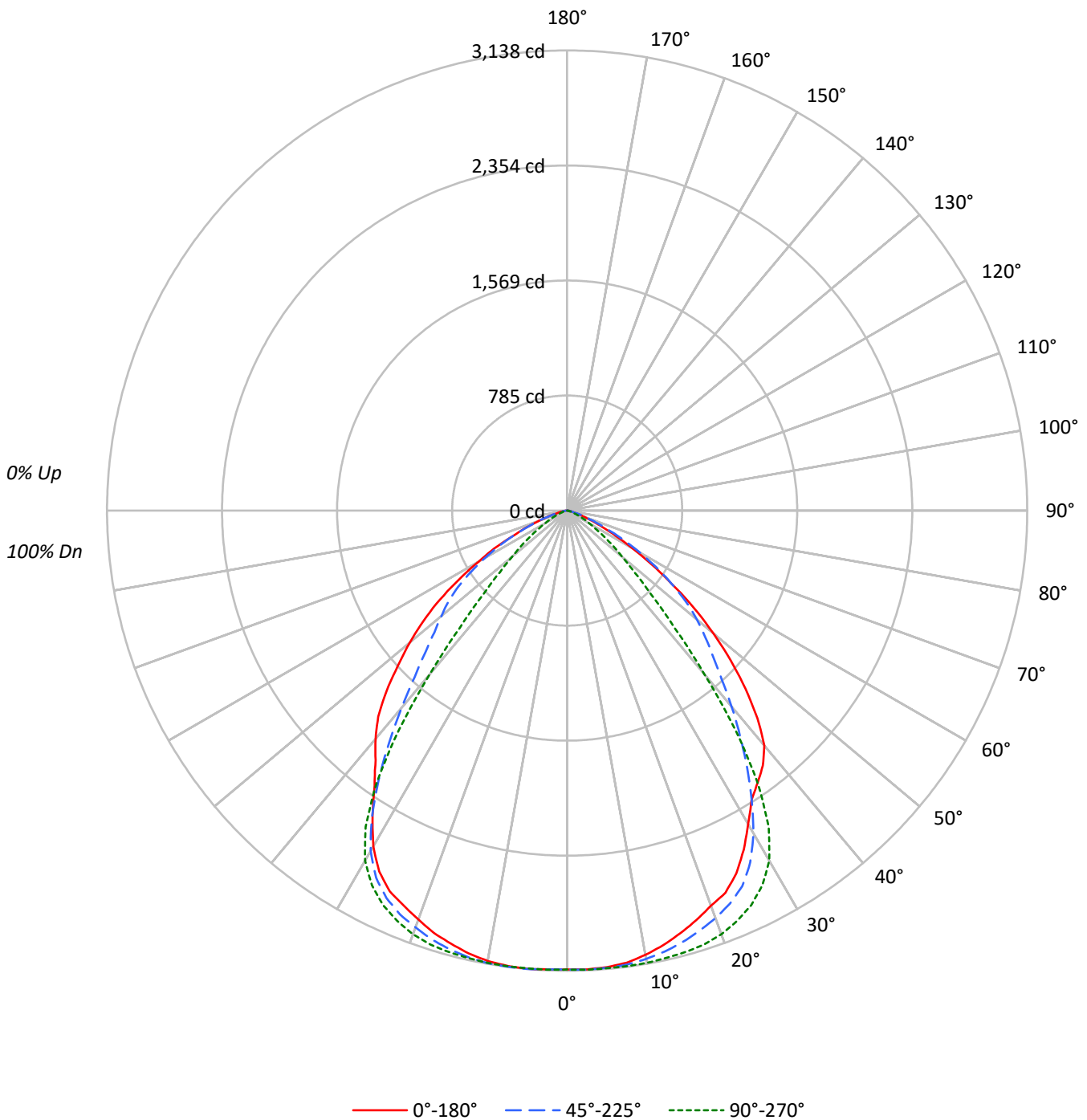
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	96511	96511	96511
5°	96725	96985	97091
10°	96319	98054	97634
15°	95252	99488	97611
20°	94108	100887	97360
25°	92886	101004	97459
30°	87874	98164	94155
35°	85253	85313	86201
40°	84195	58698	81828
45°	75021	35241	76046
50°	62379	23454	67215
55°	46783	16166	56993
60°	31706	10774	42998
65°	19124	6990	29544
70°	10603	3787	18176
75°	4801	1597	9412
80°	4173	1794	6570
85°	4741	2371	6545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	5.0
10°-20°	867.5	14.6
20°-30°	1316.6	22.2
30°-40°	1382.9	23.3
40°-50°	1036.8	17.5
50°-60°	665.2	11.2
60°-70°	284.6	4.8
70°-80°	67.2	1.1
80°-90°	12.5	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°	2482.8	41.9
0°-40°	3865.7	65.2
0°-60°	5567.7	93.9
0°-90°	5932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3130	3130	3130	3130	3130	
5°	3125	3130	3133	3138	3137	297
15°	2984	3046	3116	3096	3058	842
25°	2730	2826	2969	2915	2864	1247
35°	2265	2139	2266	2239	2290	1421
45°	1720	1406	808	1366	1744	1317
55°	870	870	301	907	1060	789
65°	262	309	96	398	405	280
75°	40	47	13	81	79	59
85°	13	8	7	13	18	14
90°	0	0	0	0	0	



TEST NUMBER: P249082

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8
2.5°	3131.5	3134.9	3133.2	3133.2	3131.5	3133.2	3133.2	3136.6	3136.6	3133.2	3131.5
5°	3124.8	3128.2	3128.2	3124.8	3124.8	3133.2	3128.2	3131.5	3131.5	3129.8	3129.8
7.5°	3109.7	3109.7	3116.4	3111.4	3111.4	3116.4	3114.7	3118.1	3121.5	3123.1	3123.1
10°	3076.1	3079.4	3081.1	3081.1	3082.8	3087.8	3091.2	3097.9	3101.3	3104.6	3106.3
12.5°	3034.1	3039.1	3040.8	3039.1	3044.2	3050.9	3059.3	3067.7	3072.7	3079.4	3084.5
15°	2983.7	2983.7	2987.0	2992.1	2995.5	3005.5	3013.9	3024.0	3037.4	3045.9	3054.2
17.5°	2928.3	2931.6	2936.6	2936.6	2943.4	2960.2	2965.2	2980.3	2995.5	3003.8	3020.7
20°	2867.8	2871.1	2876.2	2879.5	2887.9	2901.4	2911.4	2924.9	2941.7	2956.8	2973.6
22.5°	2820.7	2814.0	2817.3	2820.7	2829.1	2840.9	2852.7	2869.4	2886.2	2901.4	2918.2
25°	2730.0	2731.7	2736.7	2740.1	2750.2	2760.2	2773.7	2793.8	2809.0	2825.8	2844.2
27.5°	2607.4	2609.1	2617.4	2617.4	2625.8	2642.6	2651.0	2667.8	2688.0	2704.8	2726.7
30°	2467.9	2471.3	2471.3	2478.0	2483.0	2491.4	2499.8	2516.6	2526.7	2541.8	2572.1
32.5°	2340.3	2343.6	2341.9	2340.3	2335.2	2333.5	2331.8	2335.2	2338.6	2343.6	2355.3
35°	2264.7	2256.2	2249.5	2237.8	2224.3	2207.5	2192.4	2172.3	2153.8	2138.6	2121.9
37.5°	2192.4	2190.7	2180.6	2163.8	2136.9	2106.7	2071.5	2027.8	1984.1	1937.0	1891.7
40°	2091.6	2086.5	2078.2	2054.6	2024.4	1987.4	1940.4	1886.6	1816.1	1743.8	1669.9
42.5°	1920.2	1921.9	1911.8	1893.3	1864.8	1829.5	1780.8	1722.0	1646.4	1560.7	1465.0
45°	1720.3	1720.3	1717.0	1701.8	1681.7	1653.1	1616.2	1567.4	1493.5	1406.1	1303.7
47.5°	1512.0	1513.7	1508.6	1505.3	1496.9	1478.4	1451.5	1414.6	1362.5	1278.5	1176.0
50°	1300.3	1300.3	1308.7	1307.0	1307.0	1300.3	1288.6	1266.7	1221.4	1154.2	1058.4
52.5°	1088.6	1092.0	1097.1	1103.8	1112.1	1125.6	1112.1	1102.1	1073.5	1021.4	939.1
55°	870.2	873.6	882.0	893.7	903.9	917.3	920.6	920.6	905.5	870.2	808.1
57.5°	683.8	678.7	685.5	695.5	709.0	722.4	732.5	744.2	742.6	719.0	668.6
60°	514.1	515.8	520.8	530.9	541.0	552.7	566.2	576.2	581.3	569.5	537.6
62.5°	374.6	374.6	381.3	391.4	396.5	413.3	421.7	426.7	431.7	430.1	409.9
65°	262.1	265.4	268.8	273.9	278.9	288.9	294.0	304.1	307.4	309.1	294.0
67.5°	184.8	179.8	183.1	186.5	191.5	198.3	208.3	208.3	213.3	213.3	203.3
70°	117.6	117.6	119.3	124.3	127.7	129.4	132.7	136.1	141.1	139.4	139.4
72.5°	79.0	77.3	79.0	80.7	82.3	87.4	87.4	89.0	92.4	94.1	87.4
75°	40.3	42.0	45.3	43.7	48.7	45.3	47.0	52.1	50.4	47.0	47.0
77.5°	33.6	33.6	33.6	31.9	35.3	35.3	33.6	37.0	35.3	35.3	33.6
80°	23.5	25.2	23.5	21.8	23.5	21.8	21.8	21.8	21.8	21.8	20.1
82.5°	18.5	15.1	16.8	15.1	16.8	16.8	15.1	13.4	13.4	15.1	13.4
85°	13.4	10.1	11.8	11.8	10.1	10.1	10.1	10.1	10.1	8.4	8.4
87.5°	8.4	5.1	5.1	5.1	6.7	6.7	6.7	5.1	6.7	6.7	3.4
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: P249082

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8
2.5°	3134.9	3133.2	3136.6	3134.9	3134.9	3133.2	3134.9	3133.2	3136.6	3129.8	3131.5
5°	3134.9	3131.5	3133.2	3134.9	3136.6	3133.2	3133.2	3133.2	3136.6	3133.2	3134.9
7.5°	3128.2	3126.5	3131.5	3134.9	3133.2	3131.5	3134.9	3133.2	3136.6	3134.9	3138.2
10°	3114.7	3116.4	3119.8	3124.8	3126.5	3128.2	3131.5	3131.5	3136.6	3129.8	3133.2
12.5°	3094.6	3101.3	3109.7	3113.0	3119.8	3119.8	3123.1	3124.8	3128.2	3126.5	3131.5
15°	3069.4	3077.8	3087.8	3096.3	3104.6	3109.7	3114.7	3116.4	3121.5	3116.4	3118.1
17.5°	3039.1	3049.2	3064.3	3074.4	3087.8	3092.9	3099.6	3103.0	3108.0	3104.6	3106.3
20°	2997.1	3008.9	3025.7	3040.8	3049.2	3060.9	3069.4	3074.4	3077.8	3074.4	3076.1
22.5°	2938.3	2955.1	2977.0	2988.7	3005.5	3015.6	3017.3	3029.0	3037.4	3029.0	3032.4
25°	2869.4	2886.2	2903.1	2928.3	2943.4	2955.1	2966.9	2968.6	2977.0	2975.3	2973.6
27.5°	2755.2	2777.1	2805.6	2825.8	2845.9	2864.4	2877.9	2881.2	2889.6	2886.2	2887.9
30°	2598.9	2622.5	2649.4	2681.3	2709.9	2728.3	2745.1	2756.9	2765.3	2760.2	2758.6
32.5°	2377.2	2400.7	2429.3	2461.2	2494.8	2521.7	2541.8	2557.0	2567.0	2563.7	2555.3
35°	2123.5	2130.2	2148.7	2173.9	2202.5	2231.0	2249.5	2266.3	2278.1	2281.4	2281.4
37.5°	1863.1	1841.3	1827.9	1827.9	1844.6	1856.4	1873.2	1883.3	1901.8	1908.5	1913.5
40°	1611.1	1560.7	1513.7	1478.4	1454.9	1453.2	1453.2	1458.2	1475.0	1496.9	1517.1
42.5°	1386.0	1305.4	1233.1	1167.6	1120.6	1093.7	1081.9	1083.6	1097.1	1117.2	1150.8
45°	1206.2	1105.4	1014.7	935.8	871.9	829.9	809.8	808.1	818.2	841.7	878.7
47.5°	1066.8	959.3	856.8	766.1	697.2	651.8	628.3	621.6	628.3	650.1	693.8
50°	950.9	840.0	734.2	640.1	566.2	519.1	497.3	488.9	497.3	515.8	559.4
52.5°	843.4	729.1	630.0	539.3	460.3	420.0	396.5	391.4	396.5	418.3	453.6
55°	719.0	621.6	524.2	433.4	364.6	324.3	305.8	300.7	305.8	325.9	362.9
57.5°	596.4	512.4	426.7	344.4	285.6	250.3	233.5	226.8	238.5	252.0	295.7
60°	482.1	415.0	342.7	270.5	221.8	189.8	176.4	174.7	178.1	194.9	225.1
62.5°	378.0	322.6	265.4	206.6	166.3	152.9	136.1	134.4	137.7	147.8	171.4
65°	272.2	236.9	193.2	151.2	119.3	100.8	94.1	95.8	99.1	105.8	127.7
67.5°	189.8	164.6	134.4	105.8	82.3	73.9	67.2	65.5	67.2	79.0	90.7
70°	127.7	112.6	90.7	80.7	57.1	45.3	47.0	42.0	48.7	48.7	58.8
72.5°	84.0	73.9	60.5	47.0	40.3	31.9	31.9	30.3	33.6	35.3	43.7
75°	43.7	33.6	33.6	23.5	16.8	8.4	15.1	13.4	11.8	13.4	16.8
77.5°	30.3	25.2	23.5	18.5	16.8	13.4	13.4	13.4	13.4	15.1	16.8
80°	18.5	18.5	13.4	11.8	10.1	8.4	10.1	10.1	10.1	10.1	11.8
82.5°	11.8	10.1	10.1	8.4	8.4	6.7	6.7	6.7	6.7	6.7	10.1
85°	10.1	6.7	6.7	5.1	6.7	11.8	5.1	6.7	6.7	6.7	5.1
87.5°	3.4	5.1	5.1	5.1	3.4	1.7	3.4	5.1	5.1	8.4	6.7
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: P249082

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8	3129.8
2.5°	3134.9	3136.6	3136.6	3134.9	3134.9	3131.5	3138.2	3133.2	3134.9	3141.6	3136.6
5°	3138.2	3139.9	3139.9	3138.2	3138.2	3138.2	3139.9	3139.9	3138.2	3136.6	3139.9
7.5°	3145.0	3143.3	3143.3	3139.9	3139.9	3136.6	3139.9	3134.9	3138.2	3134.9	3139.9
10°	3136.6	3138.2	3136.6	3134.9	3134.9	3133.2	3133.2	3128.2	3129.8	3124.8	3128.2
12.5°	3131.5	3129.8	3129.8	3126.5	3123.1	3119.8	3118.1	3113.0	3113.0	3101.3	3106.3
15°	3118.1	3119.8	3114.7	3108.0	3104.6	3096.3	3092.9	3086.1	3079.4	3071.1	3072.7
17.5°	3106.3	3101.3	3094.6	3087.8	3074.4	3067.7	3060.9	3050.9	3047.5	3037.4	3034.1
20°	3071.1	3067.7	3059.3	3047.5	3039.1	3024.0	3017.3	3007.2	2998.8	2988.7	2983.7
22.5°	3025.7	3022.3	3012.2	3000.5	2987.0	2980.3	2973.6	2955.1	2946.7	2936.6	2935.0
25°	2968.6	2963.5	2953.4	2940.0	2933.3	2914.8	2908.1	2894.6	2891.3	2881.2	2879.5
27.5°	2881.2	2874.5	2862.7	2845.9	2834.2	2822.4	2815.7	2805.6	2802.3	2792.1	2790.5
30°	2750.2	2741.7	2718.2	2711.5	2691.4	2679.6	2679.6	2666.2	2667.8	2661.1	2661.1
32.5°	2543.5	2530.1	2511.6	2498.2	2484.7	2478.0	2478.0	2473.0	2476.3	2476.3	2479.7
35°	2269.7	2251.2	2241.1	2232.7	2232.7	2239.4	2259.6	2264.7	2274.7	2283.1	2289.9
37.5°	1918.5	1916.9	1928.7	1938.7	1963.9	1992.5	2027.8	2058.0	2086.5	2106.7	2126.9
40°	1538.9	1580.9	1614.5	1661.5	1700.1	1755.6	1819.4	1871.5	1920.2	1955.5	1992.5
42.5°	1201.2	1255.0	1325.5	1394.4	1463.3	1538.9	1622.9	1695.1	1759.0	1807.7	1846.3
45°	935.8	1009.7	1095.4	1182.7	1271.8	1365.9	1453.2	1527.1	1594.3	1644.7	1683.4
47.5°	754.3	835.0	932.4	1028.2	1129.0	1228.1	1325.5	1389.4	1444.8	1485.1	1520.4
50°	623.3	709.0	811.5	920.6	1021.4	1120.6	1204.6	1266.7	1312.1	1347.4	1369.2
52.5°	520.8	611.5	720.7	829.9	930.7	1021.4	1097.1	1144.1	1181.0	1206.2	1226.4
55°	430.1	517.5	619.9	722.4	821.5	907.2	969.3	1004.7	1033.2	1048.3	1060.1
57.5°	351.1	431.7	525.8	619.9	705.6	776.2	824.9	860.2	873.6	885.4	883.7
60°	275.5	351.1	436.8	517.5	591.4	648.5	683.8	703.9	714.0	719.0	715.7
62.5°	216.7	285.6	351.1	421.7	475.4	524.2	557.8	557.8	562.8	564.5	569.5
65°	161.3	213.3	270.5	322.6	366.2	398.2	416.7	421.7	428.4	426.7	423.4
67.5°	119.3	157.9	199.9	238.5	268.8	288.9	302.4	314.2	312.5	309.1	307.4
70°	82.3	107.5	144.5	168.0	189.8	210.0	213.3	215.0	216.7	218.4	215.0
72.5°	57.1	75.6	95.8	115.9	129.4	137.7	146.2	147.8	147.8	147.8	146.2
75°	28.6	38.6	57.1	65.5	77.3	80.7	87.4	87.4	92.4	85.7	84.0
77.5°	25.2	30.3	40.3	47.0	52.1	57.1	58.8	63.8	62.2	58.8	60.5
80°	15.1	18.5	25.2	28.6	35.3	37.0	38.6	40.3	38.6	40.3	40.3
82.5°	11.8	13.4	16.8	16.8	21.8	21.8	23.5	23.5	25.2	25.2	25.2
85°	6.7	11.8	10.1	20.1	13.4	13.4	16.8	20.1	16.8	16.8	20.1
87.5°	6.7	6.7	5.1	6.7	6.7	6.7	8.4	10.1	10.1	11.8	10.1
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: P249082

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3129.8	3129.8	3129.8	3129.8
2.5°	3134.9	3138.2	3133.2	3131.5
5°	3139.9	3139.9	3136.6	3136.6
7.5°	3139.9	3139.9	3134.9	3131.5
10°	3126.5	3126.5	3121.5	3118.1
12.5°	3101.3	3101.3	3099.6	3094.6
15°	3069.4	3069.4	3062.6	3057.6
17.5°	3025.7	3029.0	3020.7	3020.7
20°	2978.6	2977.0	2970.3	2966.9
22.5°	2929.9	2926.6	2924.9	2914.8
25°	2877.9	2874.5	2869.4	2864.4
27.5°	2788.8	2787.1	2782.1	2775.4
30°	2652.7	2651.0	2644.3	2644.3
32.5°	2476.3	2474.6	2467.9	2469.6
35°	2293.2	2299.9	2296.6	2289.9
37.5°	2140.3	2145.4	2148.7	2145.4
40°	2012.6	2027.8	2029.4	2032.8
42.5°	1876.6	1896.7	1903.5	1906.8
45°	1713.6	1732.1	1747.2	1743.8
47.5°	1547.3	1560.7	1574.1	1564.1
50°	1387.7	1396.1	1401.1	1401.1
52.5°	1236.5	1236.5	1234.8	1236.5
55°	1063.4	1063.4	1056.7	1060.1
57.5°	882.0	885.4	880.3	871.9
60°	714.0	705.6	702.2	697.2
62.5°	556.1	556.1	544.3	559.4
65°	416.7	411.6	406.5	404.9
67.5°	302.4	300.7	295.7	294.0
70°	213.3	206.6	205.0	201.6
72.5°	142.8	142.8	139.4	139.4
75°	87.4	79.0	77.3	79.0
77.5°	60.5	58.8	58.8	57.1
80°	40.3	38.6	42.0	37.0
82.5°	25.2	26.9	25.2	26.9
85°	16.8	20.1	18.5	18.5
87.5°	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)