

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: P245501

Luminaire Tested: **LD8B50D010 ER8B50935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4797.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

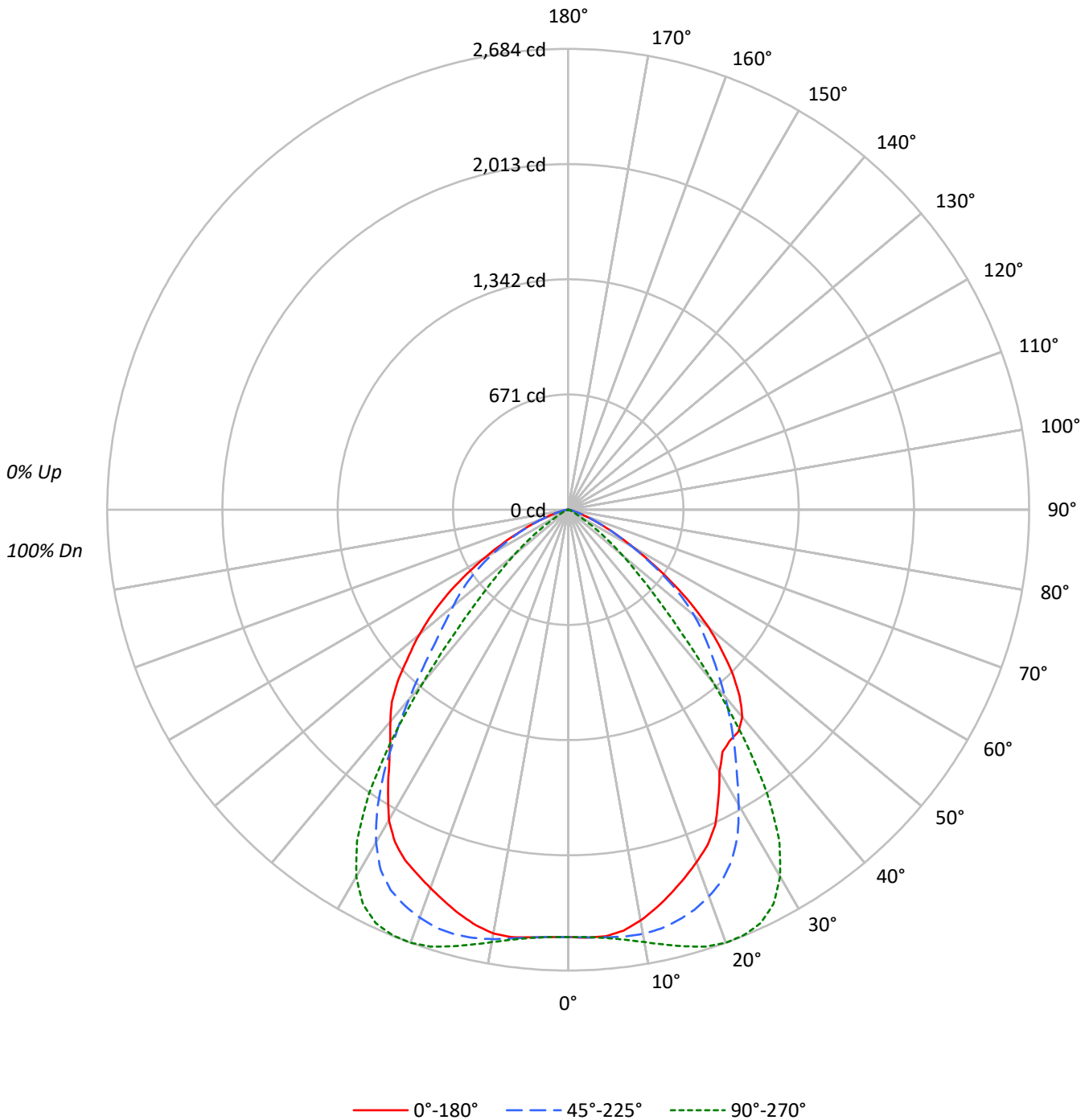
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	76736	76736	76736
5°	77193	77481	77398
10°	76060	80071	78499
15°	73837	84040	77882
20°	71692	88076	76939
25°	68940	90334	76581
30°	62739	87856	74311
35°	61804	76128	68369
40°	63485	52797	64813
45°	59099	31909	60944
50°	51264	19707	54305
55°	39337	10295	46084
60°	26803	4157	34783
65°	16672	2123	23998
70°	9052	1307	14651
75°	4718	631	8662
80°	2113	710	4688
85°	1415	460	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	5.0
10°-20°	708.9	14.8
20°-30°	1081.6	22.5
30°-40°	1128.6	23.5
40°-50°	847.8	17.7
50°-60°	521.6	10.9
60°-70°	212.3	4.4
70°-80°	50.0	1.0
80°-90°	6.9	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°	2029.8	42.3
0°-40°	3158.5	65.8
0°-60°	4527.8	94.4
0°-90°	4797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2488	2488	2488	2488	2488	
5°	2494	2500	2503	2500	2500	236
15°	2313	2475	2632	2560	2440	652
25°	2026	2253	2655	2445	2251	921
35°	1642	1688	2022	1869	1816	1037
45°	1355	1173	732	1092	1398	1034
55°	732	695	192	695	857	658
65°	228	231	29	310	329	238
75°	40	40	5	70	73	48
85°	4	4	1	9	12	6
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°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2495.1	2491.2	2495.1	2495.1	2496.5	2493.8	2495.1	2496.5	2493.8	2493.8	2493.8
5°	2493.8	2491.2	2493.8	2492.5	2495.1	2495.1	2497.8	2497.8	2500.4	2500.4	2504.4
7.5°	2472.7	2467.4	2472.7	2476.7	2479.3	2484.6	2491.2	2496.5	2501.7	2507.0	2513.6
10°	2429.1	2429.1	2433.1	2441.0	2448.9	2458.1	2470.0	2483.2	2496.5	2508.3	2520.2
12.5°	2374.9	2371.0	2378.9	2389.5	2401.3	2415.9	2434.4	2454.2	2475.3	2499.1	2517.6
15°	2312.9	2308.9	2318.1	2328.7	2343.2	2364.4	2386.8	2413.2	2443.6	2475.3	2505.7
17.5°	2249.4	2248.1	2257.4	2271.9	2283.8	2306.2	2335.3	2367.0	2401.3	2443.6	2483.2
20°	2184.7	2183.4	2192.7	2204.6	2220.4	2241.5	2270.6	2307.6	2348.5	2396.1	2442.3
22.5°	2117.4	2118.7	2126.6	2139.8	2153.0	2175.5	2205.8	2242.9	2287.7	2339.3	2390.8
25°	2026.2	2019.6	2030.2	2043.4	2065.8	2084.3	2113.4	2153.0	2199.3	2253.4	2314.2
27.5°	1894.1	1892.8	1902.1	1913.9	1933.7	1956.2	1987.9	2028.9	2077.7	2137.2	2196.6
30°	1762.0	1764.7	1768.7	1780.6	1793.7	1816.2	1847.9	1882.3	1928.5	1985.3	2048.7
32.5°	1672.2	1672.2	1677.5	1685.4	1694.7	1706.6	1729.0	1754.1	1789.8	1829.4	1875.6
35°	1641.8	1636.6	1641.8	1643.2	1644.5	1647.1	1651.1	1659.0	1670.9	1688.1	1705.2
37.5°	1628.6	1624.7	1624.7	1619.4	1612.8	1604.9	1594.3	1582.4	1569.2	1552.0	1538.8
40°	1577.1	1574.5	1571.8	1566.6	1552.0	1536.2	1519.0	1491.3	1460.9	1418.6	1376.4
42.5°	1478.1	1475.4	1474.1	1463.5	1450.3	1431.8	1412.0	1383.0	1344.7	1290.5	1229.7
45°	1355.2	1349.9	1346.0	1336.7	1327.5	1311.6	1293.1	1266.7	1228.4	1172.9	1100.3
47.5°	1212.6	1209.9	1208.6	1204.6	1195.4	1186.1	1174.3	1153.1	1118.8	1065.9	990.7
50°	1068.6	1063.3	1065.9	1064.6	1060.7	1054.1	1046.1	1031.6	1005.2	957.6	889.0
52.5°	903.5	903.5	902.2	906.1	907.4	906.1	907.4	891.6	869.1	833.5	775.3
55°	731.7	731.7	735.7	741.0	746.3	747.6	746.3	739.7	723.8	694.8	643.3
57.5°	570.6	568.0	575.9	583.8	589.1	594.4	590.4	585.1	575.9	552.1	512.5
60°	434.6	434.6	439.8	445.1	450.4	455.7	454.4	453.1	445.1	429.3	397.6
62.5°	319.6	321.0	321.0	324.9	330.2	335.5	339.5	335.5	331.5	321.0	299.8
65°	228.5	227.2	228.5	232.5	236.4	241.7	244.4	243.0	239.1	231.2	215.3
67.5°	153.2	151.9	157.2	158.5	161.1	166.4	165.1	166.4	165.1	158.5	145.3
70°	100.4	97.7	100.4	99.1	103.0	104.4	107.0	108.3	107.0	103.0	99.1
72.5°	62.1	60.8	62.1	63.4	64.7	66.0	68.7	68.7	67.4	64.7	59.4
75°	39.6	35.6	37.0	34.4	37.0	37.0	39.6	40.9	39.6	39.6	37.0
77.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	25.1	26.4	23.8	22.5
80°	11.9	11.9	13.2	13.2	13.2	14.5	13.2	13.2	13.2	14.5	10.6
82.5°	9.2	7.9	7.9	7.9	9.2	7.9	7.9	7.9	7.9	7.9	7.9
85°	4.0	5.3	4.0	2.6	4.0	4.0	5.3	4.0	4.0	4.0	5.3
87.5°	1.3	1.3	0.0	0.0	0.0	1.3	0.0	1.3	1.3	2.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2495.1	2492.5	2492.5	2491.2	2493.8	2491.2	2492.5	2491.2	2491.2	2493.8	2491.2
5°	2504.4	2505.7	2503.1	2501.7	2505.7	2505.7	2505.7	2503.1	2503.1	2504.4	2503.1
7.5°	2517.6	2520.2	2521.5	2522.9	2525.5	2526.8	2526.8	2525.5	2524.2	2528.2	2522.9
10°	2532.1	2536.1	2544.0	2548.0	2554.6	2554.6	2557.2	2557.2	2554.6	2557.2	2555.9
12.5°	2526.8	2550.6	2563.8	2573.1	2582.3	2590.2	2592.9	2594.2	2592.9	2598.2	2592.9
15°	2536.1	2555.9	2577.0	2592.9	2610.0	2619.3	2621.9	2632.5	2635.1	2636.5	2628.6
17.5°	2521.5	2557.2	2579.7	2603.4	2628.6	2645.7	2661.6	2668.2	2669.5	2672.1	2661.6
20°	2488.5	2528.2	2562.5	2596.8	2625.9	2652.3	2665.5	2684.0	2678.7	2689.3	2674.8
22.5°	2443.6	2488.5	2532.1	2577.0	2607.4	2639.1	2666.9	2680.0	2686.7	2686.7	2670.8
25°	2372.3	2425.1	2472.7	2518.9	2565.1	2603.4	2635.1	2655.0	2658.9	2657.6	2639.1
27.5°	2261.3	2318.1	2373.6	2426.5	2483.2	2528.2	2565.1	2588.9	2595.5	2595.5	2575.7
30°	2108.1	2168.9	2223.0	2286.4	2344.6	2394.8	2446.3	2467.4	2479.3	2479.3	2456.8
32.5°	1925.8	1977.3	2027.5	2089.6	2153.0	2209.8	2258.7	2287.7	2302.3	2301.0	2281.2
35°	1727.7	1752.8	1791.1	1837.3	1894.1	1947.0	1994.5	2022.3	2047.4	2046.0	2027.5
37.5°	1529.6	1523.0	1526.9	1544.1	1579.8	1616.8	1653.7	1680.2	1701.3	1710.5	1706.6
40°	1335.4	1301.1	1268.0	1256.2	1258.8	1272.0	1291.8	1311.6	1335.4	1347.3	1352.6
42.5°	1161.1	1102.9	1044.8	1001.2	976.1	968.2	977.4	984.0	998.6	1015.7	1032.9
45°	1021.0	943.1	866.5	799.1	756.9	731.7	726.5	731.7	739.7	756.9	779.3
47.5°	906.1	815.0	729.1	653.8	591.7	558.7	549.5	546.8	554.8	570.6	601.0
50°	804.4	713.3	618.2	531.0	466.3	429.3	416.1	410.8	420.0	431.9	459.7
52.5°	693.5	603.6	505.9	421.4	354.0	315.7	301.2	293.2	298.5	314.4	342.1
55°	573.3	490.0	401.5	314.4	249.6	214.0	196.8	191.5	196.8	214.0	241.7
57.5°	453.1	383.1	309.1	227.2	169.1	133.4	116.2	111.0	125.5	132.1	161.1
60°	354.0	297.2	233.8	166.4	116.2	88.5	71.3	67.4	74.0	85.8	109.6
62.5°	265.5	229.8	179.6	118.9	85.8	56.8	47.5	43.6	47.5	56.8	75.3
65°	192.9	165.1	125.5	87.2	58.1	42.3	31.7	29.1	33.0	39.6	55.5
67.5°	132.1	111.0	87.2	60.8	39.6	26.4	22.5	22.5	23.8	29.1	40.9
70°	85.8	72.7	55.5	39.6	26.4	19.8	17.2	14.5	17.2	21.1	27.7
72.5°	54.2	46.2	35.6	27.7	19.8	14.5	11.9	10.6	13.2	15.8	21.1
75°	33.0	25.1	18.5	14.5	10.6	10.6	10.6	5.3	6.6	10.6	13.2
77.5°	19.8	17.2	14.5	11.9	9.2	5.3	5.3	5.3	6.6	7.9	11.9
80°	10.6	9.2	6.6	6.6	5.3	4.0	5.3	4.0	2.6	6.6	7.9
82.5°	6.6	5.3	5.3	5.3	6.6	2.6	4.0	2.6	4.0	5.3	4.0
85°	4.0	4.0	4.0	2.6	6.6	2.6	2.6	1.3	1.3	2.6	2.6
87.5°	0.0	1.3	1.3	0.0	1.3	0.0	1.3	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2492.5	2491.2	2492.5	2491.2	2491.2	2491.2	2492.5	2492.5	2491.2	2491.2	2493.8
5°	2503.1	2503.1	2503.1	2501.7	2500.4	2500.4	2503.1	2503.1	2499.1	2503.1	2503.1
7.5°	2525.5	2521.5	2525.5	2520.2	2517.6	2518.9	2520.2	2517.6	2515.0	2516.3	2516.3
10°	2554.6	2550.6	2550.6	2546.7	2542.7	2540.0	2537.4	2530.8	2524.2	2522.9	2517.6
12.5°	2588.9	2582.3	2578.4	2570.4	2563.8	2554.6	2546.7	2536.1	2522.9	2513.6	2504.4
15°	2623.3	2612.7	2603.4	2590.2	2575.7	2559.8	2542.7	2525.5	2504.4	2485.9	2470.0
17.5°	2651.0	2636.5	2619.3	2598.2	2577.0	2553.3	2528.2	2503.1	2472.7	2448.9	2430.4
20°	2660.2	2639.1	2616.7	2588.9	2561.2	2528.2	2496.5	2463.4	2429.1	2404.0	2382.9
22.5°	2648.4	2623.3	2595.5	2566.5	2529.5	2493.8	2456.8	2418.5	2388.1	2353.8	2334.0
25°	2615.3	2585.0	2554.6	2520.2	2484.6	2444.9	2405.3	2365.7	2328.7	2310.2	2285.1
27.5°	2548.0	2515.0	2481.9	2446.3	2405.3	2365.7	2324.7	2286.4	2254.7	2229.6	2215.1
30°	2429.1	2390.8	2352.5	2314.2	2278.5	2237.6	2199.3	2167.5	2135.8	2116.0	2101.5
32.5°	2246.8	2212.5	2174.2	2137.2	2104.2	2069.8	2038.1	2010.4	1987.9	1974.7	1964.1
35°	2001.1	1966.8	1937.7	1911.3	1883.6	1869.0	1849.2	1833.4	1824.1	1818.9	1817.5
37.5°	1692.0	1672.2	1663.0	1657.7	1652.4	1648.5	1651.1	1657.7	1663.0	1672.2	1682.8
40°	1361.8	1379.0	1384.3	1402.8	1419.9	1442.4	1467.5	1496.6	1520.3	1550.7	1571.8
42.5°	1060.7	1092.4	1129.3	1169.0	1211.2	1252.2	1302.4	1348.6	1390.9	1429.2	1462.2
45°	815.0	863.8	919.3	976.1	1032.9	1092.4	1153.1	1209.9	1260.1	1301.1	1335.4
47.5°	635.3	689.5	760.8	830.8	899.5	969.5	1036.9	1096.3	1138.6	1178.2	1208.6
50°	503.2	565.3	643.3	723.8	799.1	873.1	944.4	999.9	1042.2	1073.9	1096.3
52.5°	389.6	463.6	542.9	627.4	708.0	788.6	854.6	906.1	940.5	968.2	985.4
55°	290.6	363.2	447.8	535.0	616.9	694.8	756.9	801.8	832.2	848.0	857.2
57.5°	210.0	276.1	360.6	447.8	521.7	595.7	645.9	686.9	704.0	713.3	717.2
60°	153.2	214.0	289.3	364.6	434.6	494.0	537.6	565.3	578.6	583.8	582.5
62.5°	112.3	165.1	229.8	293.2	350.0	398.9	433.2	451.7	458.4	461.0	457.0
65°	85.8	126.8	182.3	231.2	274.7	310.4	335.5	347.4	351.3	350.0	347.4
67.5°	63.4	95.1	136.1	173.0	204.7	232.5	245.7	256.3	258.9	254.9	251.0
70°	44.9	70.0	99.1	124.2	147.9	163.8	178.3	179.6	179.6	178.3	175.7
72.5°	31.7	48.9	67.4	84.5	99.1	111.0	116.2	120.2	118.9	117.5	114.9
75°	21.1	30.4	48.9	52.8	66.0	70.0	75.3	75.3	76.6	72.7	72.7
77.5°	13.2	21.1	29.1	34.4	39.6	44.9	47.5	47.5	48.9	47.5	47.5
80°	7.9	13.2	15.8	23.8	23.8	27.7	29.1	30.4	27.7	31.7	27.7
82.5°	5.3	7.9	11.9	11.9	14.5	17.2	17.2	18.5	18.5	17.2	17.2
85°	4.0	5.3	6.6	7.9	7.9	9.2	7.9	7.9	9.2	10.6	9.2
87.5°	1.3	2.6	1.3	2.6	2.6	5.3	4.0	4.0	4.0	5.3	5.3
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: P245501

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2488.5	2488.5	2488.5	2488.5
2.5°	2491.2	2492.5	2491.2	2491.2
5°	2503.1	2501.7	2503.1	2500.4
7.5°	2512.3	2512.3	2511.0	2511.0
10°	2512.3	2507.0	2507.0	2507.0
12.5°	2492.5	2485.9	2481.9	2479.3
15°	2458.1	2446.3	2441.0	2439.6
17.5°	2413.2	2402.7	2396.1	2392.1
20°	2361.7	2351.2	2343.2	2344.6
22.5°	2316.8	2304.9	2299.6	2297.0
25°	2271.9	2257.4	2253.4	2250.8
27.5°	2199.3	2191.3	2187.4	2183.4
30°	2088.3	2084.3	2077.7	2087.0
32.5°	1960.2	1953.6	1948.3	1952.3
35°	1818.9	1814.9	1818.9	1816.2
37.5°	1689.4	1693.4	1698.7	1701.3
40°	1587.7	1602.2	1607.5	1610.1
42.5°	1486.0	1503.2	1513.7	1520.3
45°	1360.5	1377.7	1389.6	1397.5
47.5°	1231.1	1245.6	1257.5	1256.2
50°	1113.5	1121.4	1126.7	1132.0
52.5°	994.6	994.6	995.9	995.9
55°	859.9	857.2	855.9	857.2
57.5°	711.9	709.3	708.0	704.0
60°	577.2	569.3	564.0	564.0
62.5°	451.7	442.5	438.5	437.2
65°	339.5	338.1	330.2	328.9
67.5°	245.7	240.4	235.1	236.4
70°	173.0	165.1	165.1	162.5
72.5°	112.3	108.3	107.0	107.0
75°	70.0	70.0	67.4	72.7
77.5°	46.2	46.2	44.9	46.2
80°	27.7	27.7	27.7	26.4
82.5°	17.2	18.5	17.2	17.2
85°	9.2	10.6	7.9	11.9
87.5°	5.3	6.6	5.3	6.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)