

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: P248533

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248533
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: LSR8B60D010 EC8B609730 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4694.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

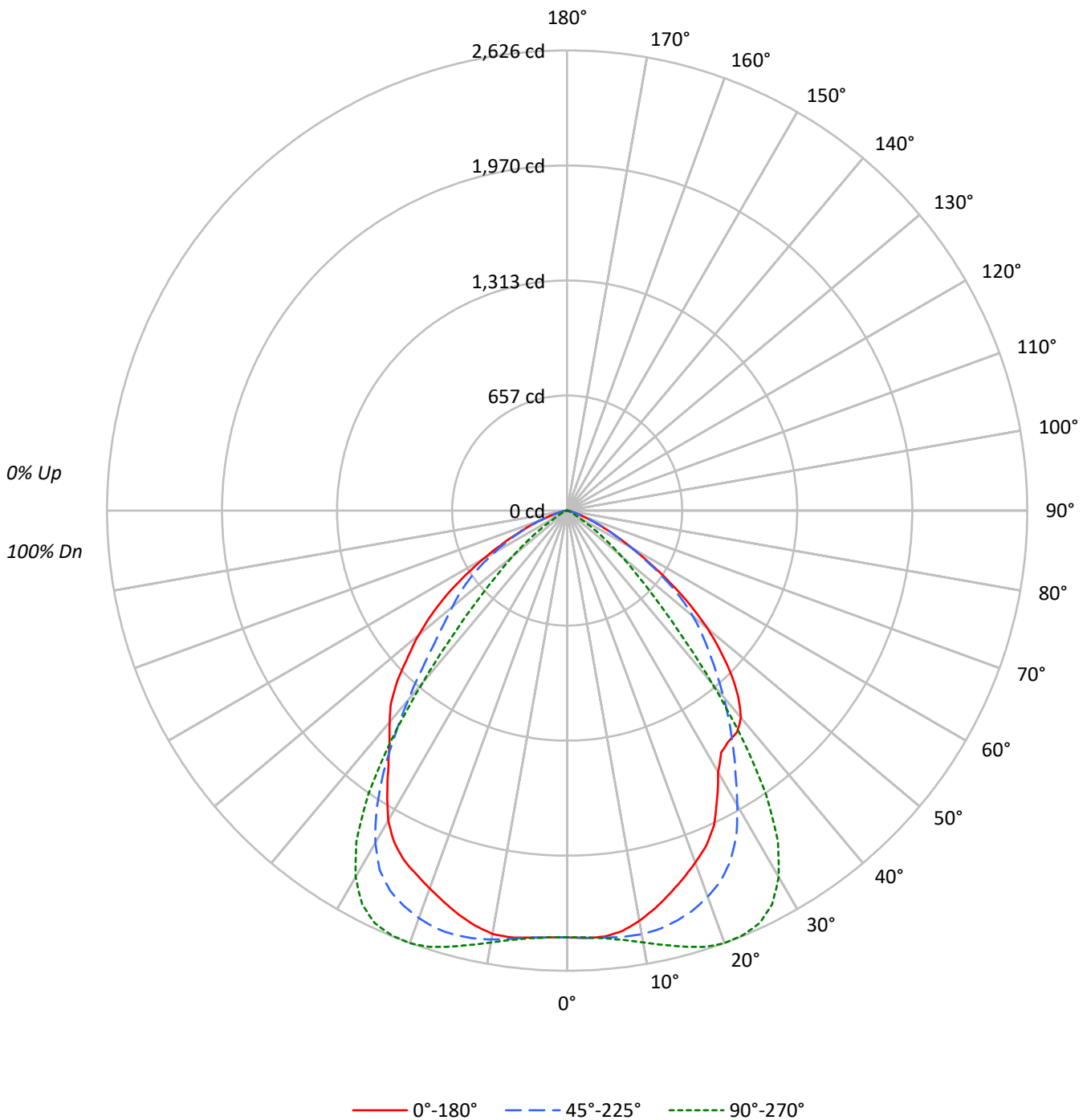
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	5.0
10°-20°	693.7	14.8
20°-30°	1058.3	22.5
30°-40°	1104.4	23.5
40°-50°	829.6	17.7
50°-60°	510.4	10.9
60°-70°	207.7	4.4
70°-80°	48.9	1.0
80°-90°	6.7	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°	1986.3	42.3
0°-40°	3090.7	65.8
0°-60°	4430.6	94.4
0°-90°	4694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2435	2435	2435	2435	2435	
5°	2440	2447	2449	2447	2447	231
15°	2263	2422	2576	2505	2387	638
25°	1983	2205	2598	2392	2202	901
35°	1607	1652	1979	1829	1777	1014
45°	1326	1148	716	1069	1368	1012
55°	716	680	187	680	839	644
65°	224	226	28	304	322	233
75°	39	39	5	68	71	47
85°	4	4	1	9	12	5
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°	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1
2.5°	2441.6	2437.7	2441.6	2441.6	2442.9	2440.3	2441.6	2442.9	2440.3	2440.3	2440.3
5°	2440.3	2437.7	2440.3	2439.0	2441.6	2441.6	2444.2	2444.2	2446.7	2446.7	2450.6
7.5°	2419.6	2414.4	2419.6	2423.5	2426.0	2431.2	2437.7	2442.9	2448.0	2453.2	2459.7
10°	2376.9	2376.9	2380.8	2388.6	2396.3	2405.4	2417.0	2429.9	2442.9	2454.5	2466.1
12.5°	2323.9	2320.1	2327.8	2338.1	2349.8	2364.0	2382.1	2401.5	2422.2	2445.4	2463.5
15°	2263.2	2259.3	2268.4	2278.7	2292.9	2313.6	2335.6	2361.4	2391.2	2422.2	2451.9
17.5°	2201.1	2199.8	2208.9	2223.1	2234.8	2256.7	2285.2	2316.2	2349.8	2391.2	2429.9
20°	2137.8	2136.5	2145.6	2157.2	2172.7	2193.4	2221.8	2258.0	2298.1	2344.6	2389.9
22.5°	2071.9	2073.2	2080.9	2093.9	2106.8	2128.8	2158.5	2194.7	2238.6	2289.0	2339.4
25°	1982.7	1976.3	1986.6	1999.5	2021.5	2039.6	2068.0	2106.8	2152.0	2205.0	2264.5
27.5°	1853.5	1852.2	1861.2	1872.8	1892.2	1914.2	1945.2	1985.3	2033.1	2091.3	2149.4
30°	1724.2	1726.8	1730.7	1742.3	1755.2	1777.2	1808.2	1841.8	1887.1	1942.6	2004.7
32.5°	1636.3	1636.3	1641.5	1649.2	1658.3	1669.9	1691.9	1716.5	1751.4	1790.1	1835.4
35°	1606.6	1601.4	1606.6	1607.9	1609.2	1611.8	1615.6	1623.4	1635.0	1651.8	1668.6
37.5°	1593.7	1589.8	1589.8	1584.6	1578.2	1570.4	1560.1	1548.4	1535.5	1518.7	1505.8
40°	1543.3	1540.7	1538.1	1532.9	1518.7	1503.2	1486.4	1459.2	1429.5	1388.1	1346.8
42.5°	1446.3	1443.7	1442.4	1432.1	1419.2	1401.1	1381.7	1353.3	1315.8	1262.8	1203.3
45°	1326.1	1320.9	1317.1	1308.0	1299.0	1283.5	1265.4	1239.5	1202.0	1147.8	1076.7
47.5°	1186.5	1183.9	1182.6	1178.8	1169.7	1160.7	1149.1	1128.4	1094.8	1043.0	969.4
50°	1045.6	1040.5	1043.0	1041.8	1037.9	1031.4	1023.7	1009.5	983.6	937.1	869.9
52.5°	884.1	884.1	882.8	886.7	888.0	886.7	888.0	872.5	850.5	815.6	758.7
55°	716.0	716.0	719.9	725.1	730.3	731.6	730.3	723.8	708.3	679.9	629.4
57.5°	558.4	555.8	563.5	571.3	576.5	581.6	577.7	572.6	563.5	540.3	501.5
60°	425.2	425.2	430.4	435.6	440.7	445.9	444.6	443.3	435.6	420.1	389.1
62.5°	312.8	314.1	314.1	318.0	323.1	328.3	332.2	328.3	324.4	314.1	293.4
65°	223.6	222.3	223.6	227.5	231.4	236.5	239.1	237.8	233.9	226.2	210.7
67.5°	149.9	148.6	153.8	155.1	157.7	162.9	161.6	162.9	161.6	155.1	142.2
70°	98.2	95.6	98.2	96.9	100.8	102.1	104.7	106.0	104.7	100.8	96.9
72.5°	60.8	59.5	60.8	62.0	63.3	64.6	67.2	67.2	65.9	63.3	58.2
75°	38.8	34.9	36.2	33.6	36.2	36.2	38.8	40.1	38.8	38.8	36.2
77.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.6	25.8	23.3	22.0
80°	11.6	11.6	12.9	12.9	12.9	14.2	12.9	12.9	12.9	14.2	10.3
82.5°	9.0	7.7	7.7	7.7	9.0	7.7	7.7	7.7	7.7	7.7	7.7
85°	3.9	5.2	3.9	2.6	3.9	3.9	5.2	3.9	3.9	3.9	5.2
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°	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1
2.5°	2441.6	2439.0	2439.0	2437.7	2440.3	2437.7	2439.0	2437.7	2437.7	2440.3	2437.7
5°	2450.6	2451.9	2449.3	2448.0	2451.9	2451.9	2451.9	2449.3	2449.3	2450.6	2449.3
7.5°	2463.5	2466.1	2467.4	2468.7	2471.3	2472.6	2472.6	2471.3	2470.0	2473.9	2468.7
10°	2477.7	2481.6	2489.4	2493.3	2499.7	2499.7	2502.3	2502.3	2499.7	2502.3	2501.0
12.5°	2472.6	2495.8	2508.8	2517.8	2526.9	2534.6	2537.2	2538.5	2537.2	2542.4	2537.2
15°	2481.6	2501.0	2521.7	2537.2	2554.0	2563.0	2565.6	2576.0	2578.6	2579.9	2572.1
17.5°	2467.4	2502.3	2524.3	2547.5	2572.1	2588.9	2604.4	2610.9	2612.2	2614.7	2604.4
20°	2435.1	2473.9	2507.5	2541.1	2569.5	2595.4	2608.3	2626.4	2621.2	2631.6	2617.3
22.5°	2391.2	2435.1	2477.7	2521.7	2551.4	2582.5	2609.6	2622.5	2629.0	2629.0	2613.5
25°	2321.4	2373.1	2419.6	2464.8	2510.1	2547.5	2578.6	2598.0	2601.8	2600.5	2582.5
27.5°	2212.8	2268.4	2322.7	2374.4	2429.9	2473.9	2510.1	2533.3	2539.8	2539.8	2520.4
30°	2062.8	2122.3	2175.3	2237.3	2294.2	2343.3	2393.7	2414.4	2426.0	2426.0	2404.1
32.5°	1884.5	1934.9	1984.0	2044.8	2106.8	2162.4	2210.2	2238.6	2252.9	2251.6	2232.2
35°	1690.6	1715.2	1752.7	1797.9	1853.5	1905.2	1951.7	1978.8	2003.4	2002.1	1984.0
37.5°	1496.7	1490.3	1494.2	1510.9	1545.8	1582.0	1618.2	1644.1	1664.7	1673.8	1669.9
40°	1306.7	1273.1	1240.8	1229.2	1231.8	1244.7	1264.1	1283.5	1306.7	1318.4	1323.5
42.5°	1136.1	1079.3	1022.4	979.7	955.2	947.4	956.5	962.9	977.1	993.9	1010.8
45°	999.1	922.9	847.9	782.0	740.6	716.0	710.9	716.0	723.8	740.6	762.6
47.5°	886.7	797.5	713.5	639.8	579.0	546.7	537.7	535.1	542.9	558.4	588.1
50°	787.1	697.9	604.9	519.6	456.3	420.1	407.1	402.0	411.0	422.6	449.8
52.5°	678.6	590.7	495.0	412.3	346.4	308.9	294.7	286.9	292.1	307.6	334.8
55°	560.9	479.5	392.9	307.6	244.3	209.4	192.6	187.4	192.6	209.4	236.5
57.5°	443.3	374.8	302.4	222.3	165.4	130.6	113.7	108.6	122.8	129.3	157.7
60°	346.4	290.8	228.8	162.9	113.7	86.6	69.8	65.9	72.4	84.0	107.3
62.5°	259.8	224.9	175.8	116.3	84.0	55.6	46.5	42.7	46.5	55.6	73.7
65°	188.7	161.6	122.8	85.3	56.9	41.4	31.0	28.4	32.3	38.8	54.3
67.5°	129.3	108.6	85.3	59.5	38.8	25.8	22.0	22.0	23.3	28.4	40.1
70°	84.0	71.1	54.3	38.8	25.8	19.4	16.8	14.2	16.8	20.7	27.1
72.5°	53.0	45.2	34.9	27.1	19.4	14.2	11.6	10.3	12.9	15.5	20.7
75°	32.3	24.6	18.1	14.2	10.3	10.3	10.3	5.2	6.5	10.3	12.9
77.5°	19.4	16.8	14.2	11.6	9.0	5.2	5.2	5.2	6.5	7.7	11.6
80°	10.3	9.0	6.5	6.5	5.2	3.9	5.2	3.9	2.6	6.5	7.7
82.5°	6.5	5.2	5.2	5.2	6.5	2.6	3.9	2.6	3.9	5.2	3.9
85°	3.9	3.9	3.9	2.6	6.5	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°	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1	2435.1
2.5°	2439.0	2437.7	2439.0	2437.7	2437.7	2437.7	2439.0	2439.0	2437.7	2437.7	2440.3
5°	2449.3	2449.3	2449.3	2448.0	2446.7	2446.7	2449.3	2449.3	2445.4	2449.3	2449.3
7.5°	2471.3	2467.4	2471.3	2466.1	2463.5	2464.8	2466.1	2463.5	2461.0	2462.2	2462.2
10°	2499.7	2495.8	2495.8	2492.0	2488.1	2485.5	2482.9	2476.4	2470.0	2468.7	2463.5
12.5°	2533.3	2526.9	2523.0	2515.2	2508.8	2499.7	2492.0	2481.6	2468.7	2459.7	2450.6
15°	2566.9	2556.6	2547.5	2534.6	2520.4	2504.9	2488.1	2471.3	2450.6	2432.5	2417.0
17.5°	2594.1	2579.9	2563.0	2542.4	2521.7	2498.4	2473.9	2449.3	2419.6	2396.3	2378.2
20°	2603.1	2582.5	2560.5	2533.3	2506.2	2473.9	2442.9	2410.5	2376.9	2352.4	2331.7
22.5°	2591.5	2566.9	2539.8	2511.4	2475.2	2440.3	2404.1	2366.6	2336.9	2303.3	2283.9
25°	2559.2	2529.5	2499.7	2466.1	2431.2	2392.4	2353.7	2314.9	2278.7	2260.6	2236.1
27.5°	2493.3	2461.0	2428.6	2393.7	2353.7	2314.9	2274.8	2237.3	2206.3	2181.8	2167.6
30°	2376.9	2339.4	2302.0	2264.5	2229.6	2189.5	2152.0	2121.0	2090.0	2070.6	2056.4
32.5°	2198.6	2165.0	2127.5	2091.3	2059.0	2025.4	1994.3	1967.2	1945.2	1932.3	1922.0
35°	1958.2	1924.5	1896.1	1870.3	1843.1	1828.9	1809.5	1794.0	1785.0	1779.8	1778.5
37.5°	1655.7	1636.3	1627.3	1622.1	1616.9	1613.1	1615.6	1622.1	1627.3	1636.3	1646.7
40°	1332.6	1349.4	1354.6	1372.6	1389.4	1411.4	1436.0	1464.4	1487.7	1517.4	1538.1
42.5°	1037.9	1068.9	1105.1	1143.9	1185.2	1225.3	1274.4	1319.6	1361.0	1398.5	1430.8
45°	797.5	845.3	899.6	955.2	1010.8	1068.9	1128.4	1183.9	1233.1	1273.1	1306.7
47.5°	621.7	674.7	744.5	813.0	880.2	948.7	1014.6	1072.8	1114.1	1152.9	1182.6
50°	492.4	553.2	629.4	708.3	782.0	854.3	924.1	978.4	1019.8	1050.8	1072.8
52.5°	381.3	453.7	531.2	613.9	692.8	771.6	836.2	886.7	920.3	947.4	964.2
55°	284.3	355.4	438.2	523.5	603.6	679.9	740.6	784.6	814.3	829.8	838.8
57.5°	205.5	270.1	352.8	438.2	510.5	582.9	632.0	672.1	688.9	697.9	701.8
60°	149.9	209.4	283.1	356.7	425.2	483.4	526.1	553.2	566.1	571.3	570.0
62.5°	109.9	161.6	224.9	286.9	342.5	390.3	423.9	442.0	448.5	451.1	447.2
65°	84.0	124.1	178.4	226.2	268.8	303.7	328.3	339.9	343.8	342.5	339.9
67.5°	62.0	93.1	133.1	169.3	200.3	227.5	240.4	250.8	253.3	249.5	245.6
70°	44.0	68.5	96.9	121.5	144.8	160.3	174.5	175.8	175.8	174.5	171.9
72.5°	31.0	47.8	65.9	82.7	96.9	108.6	113.7	117.6	116.3	115.0	112.5
75°	20.7	29.7	47.8	51.7	64.6	68.5	73.7	73.7	75.0	71.1	71.1
77.5°	12.9	20.7	28.4	33.6	38.8	44.0	46.5	46.5	47.8	46.5	46.5
80°	7.7	12.9	15.5	23.3	23.3	27.1	28.4	29.7	27.1	31.0	27.1
82.5°	5.2	7.7	11.6	11.6	14.2	16.8	16.8	18.1	18.1	16.8	16.8
85°	3.9	5.2	6.5	7.7	7.7	9.0	7.7	7.7	9.0	10.3	9.0
87.5°	1.3	2.6	1.3	2.6	2.6	5.2	3.9	3.9	3.9	5.2	5.2
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: P248533

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2435.1	2435.1	2435.1	2435.1
2.5°	2437.7	2439.0	2437.7	2437.7
5°	2449.3	2448.0	2449.3	2446.7
7.5°	2458.4	2458.4	2457.1	2457.1
10°	2458.4	2453.2	2453.2	2453.2
12.5°	2439.0	2432.5	2428.6	2426.0
15°	2405.4	2393.7	2388.6	2387.3
17.5°	2361.4	2351.1	2344.6	2340.7
20°	2311.0	2300.7	2292.9	2294.2
22.5°	2267.1	2255.4	2250.3	2247.7
25°	2223.1	2208.9	2205.0	2202.4
27.5°	2152.0	2144.3	2140.4	2136.5
30°	2043.5	2039.6	2033.1	2042.2
32.5°	1918.1	1911.6	1906.5	1910.3
35°	1779.8	1775.9	1779.8	1777.2
37.5°	1653.1	1657.0	1662.2	1664.7
40°	1553.6	1567.8	1573.0	1575.6
42.5°	1454.1	1470.9	1481.2	1487.7
45°	1331.3	1348.1	1359.7	1367.5
47.5°	1204.6	1218.9	1230.5	1229.2
50°	1089.6	1097.3	1102.5	1107.7
52.5°	973.2	973.2	974.5	974.5
55°	841.4	838.8	837.5	838.8
57.5°	696.7	694.1	692.8	688.9
60°	564.8	557.1	551.9	551.9
62.5°	442.0	433.0	429.1	427.8
65°	332.2	330.9	323.1	321.8
67.5°	240.4	235.2	230.1	231.4
70°	169.3	161.6	161.6	159.0
72.5°	109.9	106.0	104.7	104.7
75°	68.5	68.5	65.9	71.1
77.5°	45.2	45.2	44.0	45.2
80°	27.1	27.1	27.1	25.8
82.5°	16.8	18.1	16.8	16.8
85°	9.0	10.3	7.7	11.6
87.5°	5.2	6.5	5.2	6.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)