

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: P248416

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248416
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 EC8B609727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

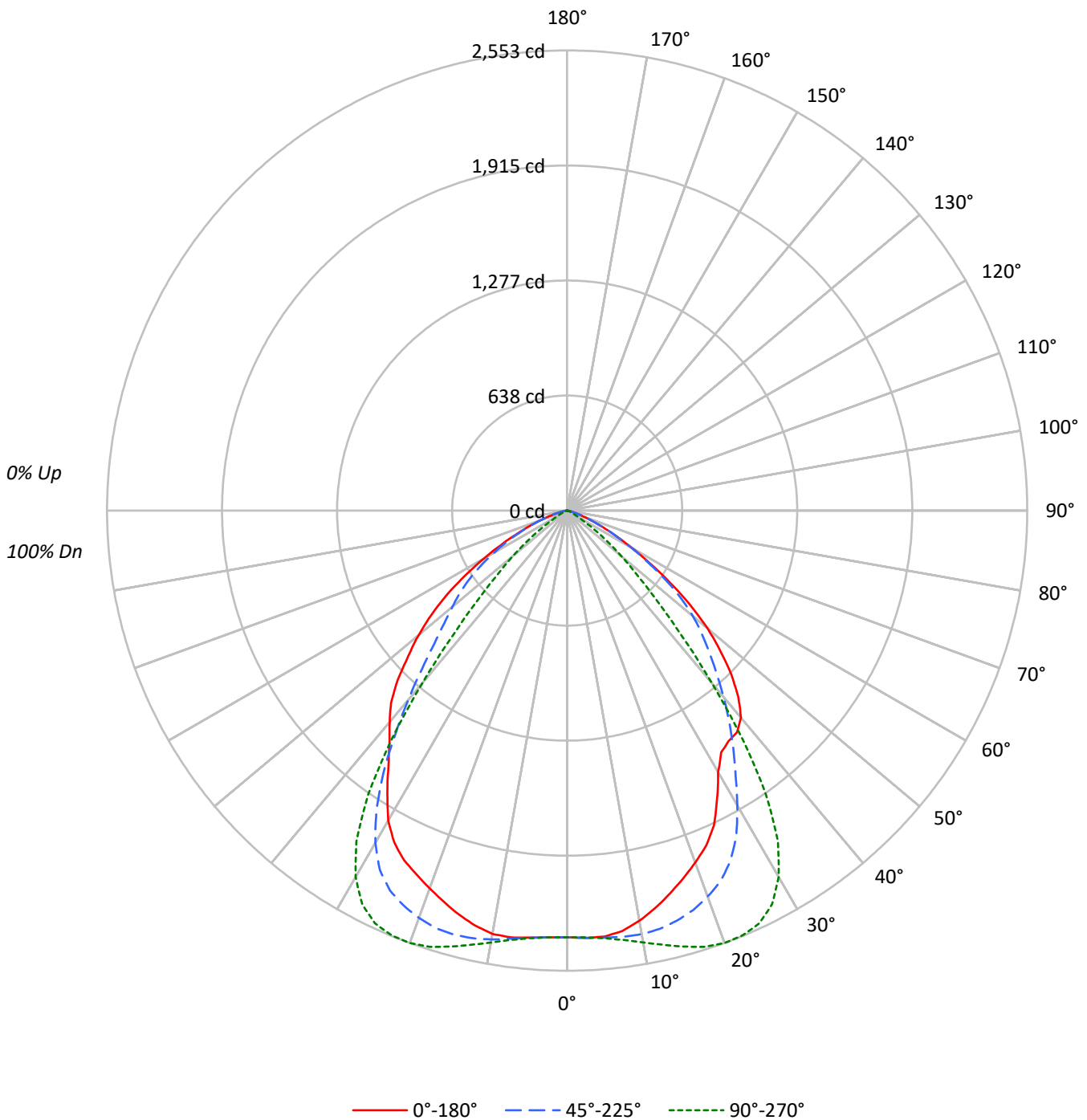
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	227.6	5.0
10°-20°	674.4	14.8
20°-30°	1028.8	22.5
30°-40°	1073.6	23.5
40°-50°	806.4	17.7
50°-60°	496.2	10.9
60°-70°	201.9	4.4
70°-80°	47.6	1.0
80°-90°	6.6	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°	1930.8	42.3
0°-40°	3004.4	65.8
0°-60°	4307.0	94.4
0°-90°	4563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2367	2367	2367	2367	2367	
5°	2372	2378	2381	2378	2378	224
15°	2200	2355	2504	2435	2321	620
25°	1927	2144	2525	2326	2141	876
35°	1562	1606	1924	1778	1728	986
45°	1289	1116	696	1039	1329	984
55°	696	661	182	661	815	626
65°	217	220	28	295	313	227
75°	38	38	5	67	69	45
85°	4	4	1	9	11	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°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	2373.4	2369.6	2373.4	2373.4	2374.7	2372.2	2373.4	2374.7	2372.2	2372.2	2372.2
5°	2372.2	2369.6	2372.2	2370.9	2373.4	2373.4	2375.9	2375.9	2378.4	2378.4	2382.2
7.5°	2352.1	2347.0	2352.1	2355.8	2358.3	2363.4	2369.6	2374.7	2379.7	2384.7	2391.0
10°	2310.6	2310.6	2314.4	2321.9	2329.4	2338.2	2349.5	2362.1	2374.7	2386.0	2397.3
12.5°	2259.1	2255.3	2262.8	2272.9	2284.2	2298.0	2315.6	2334.5	2354.6	2377.2	2394.8
15°	2200.0	2196.3	2205.0	2215.1	2228.9	2249.0	2270.4	2295.5	2324.4	2354.6	2383.5
17.5°	2139.7	2138.5	2147.2	2161.1	2172.4	2193.7	2221.4	2251.5	2284.2	2324.4	2362.1
20°	2078.2	2076.9	2085.7	2097.0	2112.1	2132.2	2159.8	2195.0	2233.9	2279.2	2323.2
22.5°	2014.1	2015.3	2022.9	2035.4	2048.0	2069.3	2098.2	2133.4	2176.1	2225.2	2274.2
25°	1927.4	1921.1	1931.2	1943.7	1965.1	1982.7	2010.3	2048.0	2092.0	2143.5	2201.3
27.5°	1801.7	1800.5	1809.3	1820.6	1839.4	1860.8	1890.9	1929.9	1976.4	2032.9	2089.5
30°	1676.1	1678.6	1682.4	1693.7	1706.2	1727.6	1757.8	1790.4	1834.4	1888.4	1948.7
32.5°	1590.6	1590.6	1595.7	1603.2	1612.0	1623.3	1644.7	1668.5	1702.5	1740.2	1784.1
35°	1561.7	1556.7	1561.7	1563.0	1564.3	1566.8	1570.5	1578.1	1589.4	1605.7	1622.1
37.5°	1549.2	1545.4	1545.4	1540.4	1534.1	1526.6	1516.5	1505.2	1492.7	1476.3	1463.8
40°	1500.2	1497.7	1495.2	1490.1	1476.3	1461.2	1444.9	1418.5	1389.6	1349.4	1309.2
42.5°	1406.0	1403.5	1402.2	1392.1	1379.6	1362.0	1343.1	1315.5	1279.1	1227.5	1169.7
45°	1289.1	1284.1	1280.3	1271.5	1262.7	1247.6	1230.1	1204.9	1168.5	1115.7	1046.6
47.5°	1153.4	1150.9	1149.6	1145.9	1137.1	1128.3	1117.0	1096.9	1064.2	1013.9	942.3
50°	1016.5	1011.4	1013.9	1012.7	1008.9	1002.7	995.1	981.3	956.1	910.9	845.6
52.5°	859.4	859.4	858.2	861.9	863.2	861.9	863.2	848.1	826.7	792.8	737.5
55°	696.1	696.1	699.8	704.9	709.9	711.1	709.9	703.6	688.5	660.9	611.9
57.5°	542.8	540.3	547.8	555.3	560.4	565.4	561.6	556.6	547.8	525.2	487.5
60°	413.4	413.4	418.4	423.4	428.4	433.5	432.2	431.0	423.4	408.3	378.2
62.5°	304.0	305.3	305.3	309.1	314.1	319.1	322.9	319.1	315.4	305.3	285.2
65°	217.4	216.1	217.4	221.1	224.9	229.9	232.4	231.2	227.4	219.9	204.8
67.5°	145.8	144.5	149.5	150.8	153.3	158.3	157.1	158.3	157.1	150.8	138.2
70°	95.5	93.0	95.5	94.2	98.0	99.3	101.8	103.0	101.8	98.0	94.2
72.5°	59.1	57.8	59.1	60.3	61.6	62.8	65.3	65.3	64.1	61.6	56.5
75°	37.7	33.9	35.2	32.7	35.2	35.2	37.7	39.0	37.7	37.7	35.2
77.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.9	25.1	22.6	21.4
80°	11.3	11.3	12.6	12.6	12.6	13.8	12.6	12.6	12.6	13.8	10.1
82.5°	8.8	7.5	7.5	7.5	8.8	7.5	7.5	7.5	7.5	7.5	7.5
85°	3.8	5.0	3.8	2.5	3.8	3.8	5.0	3.8	3.8	3.8	5.0
87.5°	1.3	1.3	0.0	0.0	0.0	1.3	0.0	1.3	1.3	2.5	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°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	2373.4	2370.9	2370.9	2369.6	2372.2	2369.6	2370.9	2369.6	2369.6	2372.2	2369.6
5°	2382.2	2383.5	2381.0	2379.7	2383.5	2383.5	2383.5	2381.0	2381.0	2382.2	2381.0
7.5°	2394.8	2397.3	2398.5	2399.8	2402.3	2403.6	2403.6	2402.3	2401.1	2404.8	2399.8
10°	2408.6	2412.4	2419.9	2423.7	2430.0	2430.0	2432.5	2432.5	2430.0	2432.5	2431.2
12.5°	2403.6	2426.2	2438.8	2447.5	2456.3	2463.9	2466.4	2467.7	2466.4	2471.4	2466.4
15°	2412.4	2431.2	2451.3	2466.4	2482.7	2491.5	2494.0	2504.1	2506.6	2507.9	2500.3
17.5°	2398.5	2432.5	2453.8	2476.4	2500.3	2516.7	2531.7	2538.0	2539.3	2541.8	2531.7
20°	2367.1	2404.8	2437.5	2470.2	2497.8	2522.9	2535.5	2553.1	2548.1	2558.1	2544.3
22.5°	2324.4	2367.1	2408.6	2451.3	2480.2	2510.4	2536.8	2549.3	2555.6	2555.6	2540.5
25°	2256.6	2306.8	2352.1	2396.0	2440.0	2476.4	2506.6	2525.4	2529.2	2528.0	2510.4
27.5°	2151.0	2205.0	2257.8	2308.1	2362.1	2404.8	2440.0	2462.6	2468.9	2468.9	2450.1
30°	2005.3	2063.1	2114.6	2174.9	2230.2	2277.9	2326.9	2347.0	2358.3	2358.3	2337.0
32.5°	1831.9	1880.9	1928.6	1987.7	2048.0	2102.0	2148.5	2176.1	2190.0	2188.7	2169.9
35°	1643.4	1667.3	1703.7	1747.7	1801.7	1852.0	1897.2	1923.6	1947.5	1946.2	1928.6
37.5°	1454.9	1448.7	1452.5	1468.8	1502.7	1537.9	1573.1	1598.2	1618.3	1627.1	1623.3
40°	1270.3	1237.6	1206.2	1194.9	1197.4	1210.0	1228.8	1247.6	1270.3	1281.6	1286.6
42.5°	1104.4	1049.1	993.8	952.4	928.5	921.0	929.8	936.0	949.9	966.2	982.5
45°	971.2	897.1	824.2	760.2	719.9	696.1	691.0	696.1	703.6	719.9	741.3
47.5°	861.9	775.2	693.6	621.9	562.9	531.5	522.7	520.2	527.7	542.8	571.7
50°	765.2	678.5	588.0	505.1	443.5	408.3	395.8	390.7	399.5	410.9	437.2
52.5°	659.6	574.2	481.2	400.8	336.7	300.3	286.5	278.9	283.9	299.0	325.4
55°	545.3	466.1	382.0	299.0	237.5	203.5	187.2	182.2	187.2	203.5	229.9
57.5°	431.0	364.4	294.0	216.1	160.8	126.9	110.6	105.5	119.4	125.6	153.3
60°	336.7	282.7	222.4	158.3	110.6	84.2	67.8	64.1	70.4	81.7	104.3
62.5°	252.6	218.6	170.9	113.1	81.7	54.0	45.2	41.5	45.2	54.0	71.6
65°	183.4	157.1	119.4	82.9	55.3	40.2	30.2	27.6	31.4	37.7	52.8
67.5°	125.6	105.5	82.9	57.8	37.7	25.1	21.4	21.4	22.6	27.6	39.0
70°	81.7	69.1	52.8	37.7	25.1	18.8	16.3	13.8	16.3	20.1	26.4
72.5°	51.5	44.0	33.9	26.4	18.8	13.8	11.3	10.1	12.6	15.1	20.1
75°	31.4	23.9	17.6	13.8	10.1	10.1	10.1	5.0	6.3	10.1	12.6
77.5°	18.8	16.3	13.8	11.3	8.8	5.0	5.0	5.0	6.3	7.5	11.3
80°	10.1	8.8	6.3	6.3	5.0	3.8	5.0	3.8	2.5	6.3	7.5
82.5°	6.3	5.0	5.0	5.0	6.3	2.5	3.8	2.5	3.8	5.0	3.8
85°	3.8	3.8	3.8	2.5	6.3	2.5	2.5	1.3	1.3	2.5	2.5
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°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	2370.9	2369.6	2370.9	2369.6	2369.6	2369.6	2370.9	2370.9	2369.6	2369.6	2372.2
5°	2381.0	2381.0	2381.0	2379.7	2378.4	2378.4	2381.0	2381.0	2377.2	2381.0	2381.0
7.5°	2402.3	2398.5	2402.3	2397.3	2394.8	2396.0	2397.3	2394.8	2392.3	2393.5	2393.5
10°	2430.0	2426.2	2426.2	2422.4	2418.6	2416.1	2413.6	2407.3	2401.1	2399.8	2394.8
12.5°	2462.6	2456.3	2452.6	2445.0	2438.8	2430.0	2422.4	2412.4	2399.8	2391.0	2382.2
15°	2495.3	2485.2	2476.4	2463.9	2450.1	2435.0	2418.6	2402.3	2382.2	2364.6	2349.5
17.5°	2521.7	2507.9	2491.5	2471.4	2451.3	2428.7	2404.8	2381.0	2352.1	2329.4	2311.8
20°	2530.5	2510.4	2489.0	2462.6	2436.2	2404.8	2374.7	2343.3	2310.6	2286.7	2266.6
22.5°	2519.2	2495.3	2468.9	2441.3	2406.1	2372.2	2337.0	2300.5	2271.6	2239.0	2220.1
25°	2487.8	2458.9	2430.0	2397.3	2363.4	2325.7	2288.0	2250.3	2215.1	2197.5	2173.7
27.5°	2423.7	2392.3	2360.9	2326.9	2288.0	2250.3	2211.3	2174.9	2144.8	2120.9	2107.1
30°	2310.6	2274.2	2237.7	2201.3	2167.4	2128.4	2092.0	2061.8	2031.7	2012.8	1999.0
32.5°	2137.2	2104.5	2068.1	2032.9	2001.5	1968.8	1938.7	1912.3	1890.9	1878.4	1868.3
35°	1903.5	1870.8	1843.2	1818.1	1791.7	1777.9	1759.0	1743.9	1735.1	1730.1	1728.9
37.5°	1609.5	1590.6	1581.9	1576.8	1571.8	1568.0	1570.5	1576.8	1581.9	1590.6	1600.7
40°	1295.4	1311.7	1316.8	1334.3	1350.7	1372.0	1395.9	1423.6	1446.2	1475.1	1495.2
42.5°	1008.9	1039.1	1074.3	1111.9	1152.2	1191.1	1238.9	1282.8	1323.0	1359.5	1390.9
45°	775.2	821.7	874.5	928.5	982.5	1039.1	1096.9	1150.9	1198.6	1237.6	1270.3
47.5°	604.3	655.9	723.7	790.3	855.6	922.2	986.3	1042.8	1083.0	1120.7	1149.6
50°	478.7	537.8	611.9	688.5	760.2	830.5	898.3	951.1	991.3	1021.5	1042.8
52.5°	370.6	441.0	516.4	596.8	673.5	750.1	812.9	861.9	894.6	921.0	937.3
55°	276.4	345.5	425.9	508.9	586.8	660.9	719.9	762.7	791.6	806.6	815.4
57.5°	199.8	262.6	343.0	425.9	496.3	566.7	614.4	653.4	669.7	678.5	682.2
60°	145.8	203.5	275.2	346.8	413.4	469.9	511.4	537.8	550.3	555.3	554.1
62.5°	106.8	157.1	218.6	278.9	332.9	379.4	412.1	429.7	436.0	438.5	434.7
65°	81.7	120.6	173.4	219.9	261.3	295.3	319.1	330.5	334.2	332.9	330.5
67.5°	60.3	90.5	129.4	164.6	194.8	221.1	233.7	243.8	246.3	242.5	238.7
70°	42.7	66.6	94.2	118.1	140.7	155.8	169.6	170.9	170.9	169.6	167.1
72.5°	30.2	46.5	64.1	80.4	94.2	105.5	110.6	114.3	113.1	111.8	109.3
75°	20.1	28.9	46.5	50.3	62.8	66.6	71.6	71.6	72.9	69.1	69.1
77.5°	12.6	20.1	27.6	32.7	37.7	42.7	45.2	45.2	46.5	45.2	45.2
80°	7.5	12.6	15.1	22.6	22.6	26.4	27.6	28.9	26.4	30.2	26.4
82.5°	5.0	7.5	11.3	11.3	13.8	16.3	16.3	17.6	17.6	16.3	16.3
85°	3.8	5.0	6.3	7.5	7.5	8.8	7.5	7.5	8.8	10.1	8.8
87.5°	1.3	2.5	1.3	2.5	2.5	5.0	3.8	3.8	3.8	5.0	5.0
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: P248416

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2367.1	2367.1	2367.1	2367.1
2.5°	2369.6	2370.9	2369.6	2369.6
5°	2381.0	2379.7	2381.0	2378.4
7.5°	2389.8	2389.8	2388.5	2388.5
10°	2389.8	2384.7	2384.7	2384.7
12.5°	2370.9	2364.6	2360.9	2358.3
15°	2338.2	2326.9	2321.9	2320.6
17.5°	2295.5	2285.5	2279.2	2275.4
20°	2246.5	2236.5	2228.9	2230.2
22.5°	2203.8	2192.5	2187.5	2184.9
25°	2161.1	2147.2	2143.5	2141.0
27.5°	2092.0	2084.4	2080.7	2076.9
30°	1986.4	1982.7	1976.4	1985.2
32.5°	1864.6	1858.3	1853.3	1857.0
35°	1730.1	1726.3	1730.1	1727.6
37.5°	1607.0	1610.8	1615.8	1618.3
40°	1510.3	1524.1	1529.1	1531.6
42.5°	1413.5	1429.8	1439.9	1446.2
45°	1294.1	1310.5	1321.8	1329.3
47.5°	1171.0	1184.8	1196.1	1194.9
50°	1059.2	1066.7	1071.7	1076.8
52.5°	946.1	946.1	947.3	947.3
55°	817.9	815.4	814.2	815.4
57.5°	677.2	674.7	673.5	669.7
60°	549.1	541.5	536.5	536.5
62.5°	429.7	420.9	417.2	415.9
65°	322.9	321.6	314.1	312.8
67.5°	233.7	228.7	223.7	224.9
70°	164.6	157.1	157.1	154.5
72.5°	106.8	103.0	101.8	101.8
75°	66.6	66.6	64.1	69.1
77.5°	44.0	44.0	42.7	44.0
80°	26.4	26.4	26.4	25.1
82.5°	16.3	17.6	16.3	16.3
85°	8.8	10.1	7.5	11.3
87.5°	5.0	6.3	5.0	6.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)