

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: P244661

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244661
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: LSR8B50D010 EC8B50930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4609.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

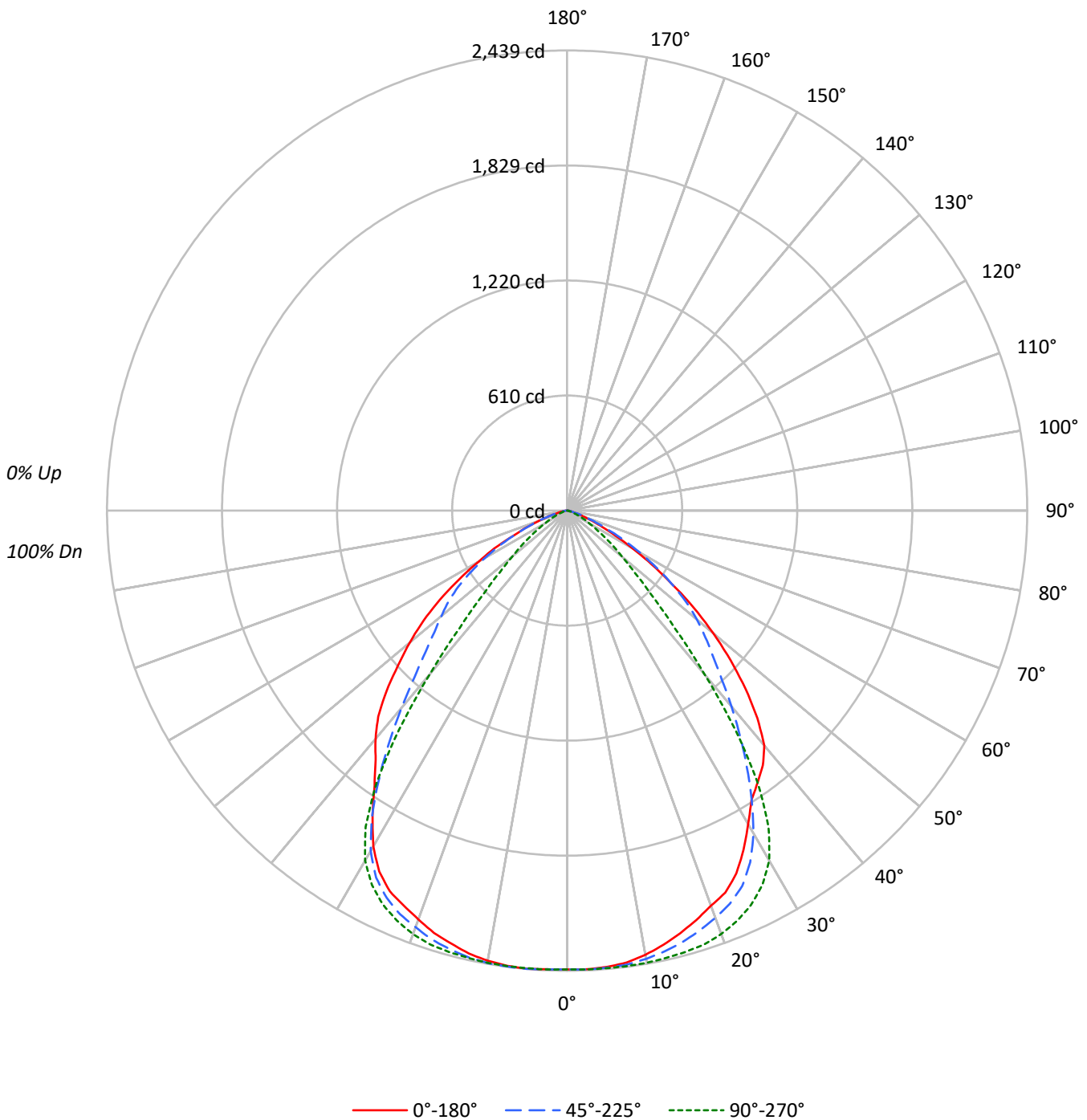
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	232.1	5.0
10°-20°	674.1	14.6
20°-30°	1023.1	22.2
30°-40°	1074.6	23.3
40°-50°	805.7	17.5
50°-60°	516.9	11.2
60°-70°	221.1	4.8
70°-80°	52.2	1.1
80°-90°	9.7	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°	1929.3	41.9
0°-40°	3003.9	65.2
0°-60°	4326.5	93.9
0°-90°	4609.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2432	2432	2432	2432	2432	
5°	2428	2432	2435	2439	2437	231
15°	2318	2367	2422	2406	2376	654
25°	2121	2196	2307	2265	2226	969
35°	1760	1662	1761	1740	1779	1104
45°	1337	1093	628	1061	1355	1024
55°	676	676	234	705	824	613
65°	204	240	74	309	315	217
75°	31	36	10	63	61	46
85°	10	6	5	10	14	11
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°	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1
2.5°	2433.4	2436.0	2434.7	2434.7	2433.4	2434.7	2434.7	2437.3	2437.3	2434.7	2433.4
5°	2428.2	2430.8	2430.8	2428.2	2428.2	2434.7	2430.8	2433.4	2433.4	2432.1	2432.1
7.5°	2416.4	2416.4	2421.7	2417.8	2417.8	2421.7	2420.4	2422.9	2425.6	2426.9	2426.9
10°	2390.3	2392.9	2394.2	2394.2	2395.6	2399.5	2402.1	2407.3	2409.9	2412.5	2413.8
12.5°	2357.7	2361.6	2363.0	2361.6	2365.5	2370.7	2377.3	2383.8	2387.7	2392.9	2396.8
15°	2318.5	2318.5	2321.1	2325.1	2327.6	2335.5	2342.0	2349.8	2360.3	2366.9	2373.4
17.5°	2275.4	2278.1	2281.9	2281.9	2287.2	2300.2	2304.1	2315.9	2327.6	2334.1	2347.3
20°	2228.4	2231.0	2234.9	2237.6	2244.1	2254.6	2262.4	2272.8	2285.9	2297.6	2310.7
22.5°	2191.9	2186.6	2189.3	2191.9	2198.4	2207.6	2216.7	2229.8	2242.8	2254.6	2267.7
25°	2121.4	2122.7	2126.6	2129.2	2137.1	2144.9	2155.3	2171.0	2182.7	2195.8	2210.2
27.5°	2026.1	2027.4	2033.9	2033.9	2040.4	2053.6	2060.1	2073.1	2088.8	2101.8	2118.8
30°	1917.7	1920.4	1920.4	1925.5	1929.5	1936.0	1942.6	1955.6	1963.4	1975.2	1998.7
32.5°	1818.5	1821.2	1819.8	1818.5	1814.6	1813.3	1812.0	1814.6	1817.3	1821.2	1830.3
35°	1759.7	1753.2	1748.1	1738.9	1728.5	1715.4	1703.6	1688.0	1673.7	1661.9	1648.8
37.5°	1703.6	1702.4	1694.5	1681.4	1660.5	1637.1	1609.6	1575.7	1541.7	1505.2	1470.0
40°	1625.3	1621.4	1614.9	1596.6	1573.1	1544.4	1507.9	1466.0	1411.2	1355.1	1297.7
42.5°	1492.2	1493.5	1485.7	1471.2	1449.1	1421.7	1383.8	1338.1	1279.4	1212.8	1138.4
45°	1336.8	1336.8	1334.2	1322.4	1306.7	1284.6	1255.9	1218.0	1160.6	1092.6	1013.0
47.5°	1174.9	1176.3	1172.3	1169.8	1163.1	1148.8	1128.0	1099.3	1058.8	993.4	913.8
50°	1010.5	1010.5	1017.0	1015.6	1015.6	1010.5	1001.3	984.4	949.0	896.9	822.5
52.5°	845.9	848.6	852.5	857.7	864.2	874.6	864.2	856.3	834.1	793.7	729.8
55°	676.2	678.9	685.4	694.5	702.3	712.8	715.4	715.4	703.7	676.2	628.0
57.5°	531.4	527.4	532.7	540.4	551.0	561.4	569.2	578.3	577.0	558.7	519.6
60°	399.5	400.8	404.7	412.5	420.4	429.5	440.0	447.7	451.7	442.6	417.8
62.5°	291.1	291.1	296.3	304.1	308.1	321.2	327.7	331.6	335.5	334.2	318.6
65°	203.7	206.3	208.8	212.8	216.7	224.5	228.5	236.3	238.9	240.2	228.5
67.5°	143.6	139.7	142.3	144.9	148.9	154.0	161.9	161.9	165.8	165.8	157.9
70°	91.4	91.4	92.7	96.6	99.2	100.6	103.1	105.7	109.6	108.4	108.4
72.5°	61.3	60.1	61.3	62.7	64.0	67.9	67.9	69.2	71.9	73.1	67.9
75°	31.4	32.6	35.2	34.0	37.9	35.2	36.5	40.5	39.1	36.5	36.5
77.5°	26.1	26.1	26.1	24.8	27.4	27.4	26.1	28.7	27.4	27.4	26.1
80°	18.3	19.6	18.3	16.9	18.3	16.9	16.9	16.9	16.9	16.9	15.7
82.5°	14.3	11.8	13.1	11.8	13.1	13.1	11.8	10.4	10.4	11.8	10.4
85°	10.4	7.8	9.1	9.1	7.8	7.8	7.8	7.8	7.8	6.5	6.5
87.5°	6.5	3.9	3.9	3.9	5.2	5.2	5.2	3.9	5.2	5.2	2.6
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°	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1
2.5°	2436.0	2434.7	2437.3	2436.0	2436.0	2434.7	2436.0	2434.7	2437.3	2432.1	2433.4
5°	2436.0	2433.4	2434.7	2436.0	2437.3	2434.7	2434.7	2434.7	2437.3	2434.7	2436.0
7.5°	2430.8	2429.4	2433.4	2436.0	2434.7	2433.4	2436.0	2434.7	2437.3	2436.0	2438.6
10°	2420.4	2421.7	2424.3	2428.2	2429.4	2430.8	2433.4	2433.4	2437.3	2432.1	2434.7
12.5°	2404.7	2409.9	2416.4	2419.0	2424.3	2424.3	2426.9	2428.2	2430.8	2429.4	2433.4
15°	2385.2	2391.7	2399.5	2406.0	2412.5	2416.4	2420.4	2421.7	2425.6	2421.7	2422.9
17.5°	2361.6	2369.5	2381.2	2389.0	2399.5	2403.4	2408.6	2411.2	2415.1	2412.5	2413.8
20°	2329.0	2338.1	2351.2	2363.0	2369.5	2378.5	2385.2	2389.0	2391.7	2389.0	2390.3
22.5°	2283.3	2296.4	2313.3	2322.4	2335.5	2343.3	2344.7	2353.8	2360.3	2353.8	2356.3
25°	2229.8	2242.8	2255.9	2275.4	2287.2	2296.4	2305.4	2306.8	2313.3	2312.0	2310.7
27.5°	2141.0	2157.9	2180.1	2195.8	2211.5	2225.9	2236.3	2238.9	2245.4	2242.8	2244.1
30°	2019.6	2037.9	2058.7	2083.5	2105.7	2120.0	2133.2	2142.2	2148.8	2144.9	2143.6
32.5°	1847.3	1865.6	1887.8	1912.5	1938.7	1959.5	1975.2	1987.0	1994.7	1992.1	1985.6
35°	1650.1	1655.4	1669.7	1689.3	1711.4	1733.6	1748.1	1761.1	1770.2	1772.9	1772.9
37.5°	1447.8	1430.8	1420.4	1420.4	1433.4	1442.5	1455.6	1463.5	1477.8	1483.0	1486.9
40°	1251.9	1212.8	1176.3	1148.8	1130.5	1129.3	1129.3	1133.1	1146.2	1163.1	1178.8
42.5°	1077.1	1014.4	958.2	907.3	870.8	849.8	840.8	842.1	852.5	868.1	894.2
45°	937.4	859.0	788.5	727.2	677.5	644.9	629.2	628.0	635.7	654.0	682.8
47.5°	829.0	745.5	665.8	595.3	541.8	506.5	488.2	483.0	488.2	505.2	539.2
50°	738.9	652.8	570.5	497.4	440.0	403.4	386.4	379.9	386.4	400.8	434.7
52.5°	655.3	566.6	489.5	419.0	357.7	326.3	308.1	304.1	308.1	325.1	352.4
55°	558.7	483.0	407.3	336.9	283.3	252.0	237.5	233.7	237.5	253.2	282.0
57.5°	463.4	398.2	331.6	267.6	222.0	194.5	181.5	176.2	185.4	195.8	229.8
60°	374.6	322.5	266.3	210.2	172.3	147.5	137.1	135.8	138.3	151.4	174.9
62.5°	293.7	250.7	206.3	160.5	129.3	118.8	105.7	104.5	107.1	114.9	133.2
65°	211.5	184.1	150.1	117.5	92.7	78.4	73.1	74.4	77.0	82.3	99.2
67.5°	147.5	127.9	104.5	82.3	64.0	57.4	52.2	50.9	52.2	61.3	70.5
70°	99.2	87.4	70.5	62.7	44.4	35.2	36.5	32.6	37.9	37.9	45.6
72.5°	65.2	57.4	47.0	36.5	31.4	24.8	24.8	23.5	26.1	27.4	34.0
75°	34.0	26.1	26.1	18.3	13.1	6.5	11.8	10.4	9.1	10.4	13.1
77.5°	23.5	19.6	18.3	14.3	13.1	10.4	10.4	10.4	10.4	11.8	13.1
80°	14.3	14.3	10.4	9.1	7.8	6.5	7.8	7.8	7.8	7.8	9.1
82.5°	9.1	7.8	7.8	6.5	6.5	5.2	5.2	5.2	5.2	5.2	7.8
85°	7.8	5.2	5.2	3.9	5.2	9.1	3.9	5.2	5.2	5.2	3.9
87.5°	2.6	3.9	3.9	3.9	2.6	1.3	2.6	3.9	3.9	6.5	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1
2.5°	2436.0	2437.3	2437.3	2436.0	2436.0	2433.4	2438.6	2434.7	2436.0	2441.2	2437.3
5°	2438.6	2440.0	2440.0	2438.6	2438.6	2438.6	2440.0	2440.0	2438.6	2437.3	2440.0
7.5°	2443.9	2442.5	2442.5	2440.0	2440.0	2437.3	2440.0	2436.0	2438.6	2436.0	2440.0
10°	2437.3	2438.6	2437.3	2436.0	2436.0	2434.7	2434.7	2430.8	2432.1	2428.2	2430.8
12.5°	2433.4	2432.1	2432.1	2429.4	2426.9	2424.3	2422.9	2419.0	2419.0	2409.9	2413.8
15°	2422.9	2424.3	2420.4	2415.1	2412.5	2406.0	2403.4	2398.2	2392.9	2386.4	2387.7
17.5°	2413.8	2409.9	2404.7	2399.5	2389.0	2383.8	2378.5	2370.7	2368.1	2360.3	2357.7
20°	2386.4	2383.8	2377.3	2368.1	2361.6	2349.8	2344.7	2336.8	2330.2	2322.4	2318.5
22.5°	2351.2	2348.5	2340.6	2331.6	2321.1	2315.9	2310.7	2296.4	2289.8	2281.9	2280.7
25°	2306.8	2302.9	2295.0	2284.6	2279.3	2265.0	2259.7	2249.3	2246.7	2238.9	2237.6
27.5°	2238.9	2233.7	2224.5	2211.5	2202.3	2193.2	2188.0	2180.1	2177.5	2169.7	2168.4
30°	2137.1	2130.6	2112.3	2107.0	2091.3	2082.3	2082.3	2071.8	2073.1	2067.9	2067.9
32.5°	1976.4	1966.0	1951.7	1941.2	1930.8	1925.5	1925.5	1921.6	1924.3	1924.3	1926.9
35°	1763.7	1749.3	1741.5	1735.0	1735.0	1740.1	1755.8	1759.7	1767.6	1774.1	1779.4
37.5°	1490.8	1489.6	1498.7	1506.5	1526.1	1548.3	1575.7	1599.2	1621.4	1637.1	1652.7
40°	1195.8	1228.5	1254.5	1291.2	1321.1	1364.3	1413.8	1454.3	1492.2	1519.6	1548.3
42.5°	933.3	975.2	1030.0	1083.6	1137.0	1195.8	1261.1	1317.2	1366.8	1404.7	1434.7
45°	727.2	784.6	851.2	919.1	988.3	1061.4	1129.3	1186.7	1238.9	1278.1	1308.1
47.5°	586.2	648.8	724.5	798.9	877.3	954.3	1030.0	1079.6	1122.7	1154.1	1181.4
50°	484.3	551.0	630.6	715.4	793.7	870.8	936.0	984.4	1019.5	1047.0	1063.9
52.5°	404.7	475.2	560.1	644.9	723.3	793.7	852.5	889.1	917.8	937.4	953.0
55°	334.2	402.1	481.7	561.4	638.4	705.0	753.2	780.7	802.9	814.6	823.7
57.5°	272.9	335.5	408.6	481.7	548.3	603.1	641.0	668.5	678.9	688.0	686.7
60°	214.1	272.9	339.4	402.1	459.5	503.9	531.4	546.9	554.8	558.7	556.1
62.5°	168.4	222.0	272.9	327.7	369.5	407.3	433.4	433.4	437.3	438.6	442.6
65°	125.3	165.8	210.2	250.7	284.6	309.4	323.7	327.7	332.9	331.6	329.0
67.5°	92.7	122.7	155.4	185.4	208.8	224.5	235.0	244.2	242.8	240.2	238.9
70°	64.0	83.5	112.3	130.6	147.5	163.2	165.8	167.1	168.4	169.7	167.1
72.5°	44.4	58.7	74.4	90.1	100.6	107.1	113.6	114.9	114.9	114.9	113.6
75°	22.2	30.0	44.4	50.9	60.1	62.7	67.9	67.9	71.9	66.6	65.2
77.5°	19.6	23.5	31.4	36.5	40.5	44.4	45.6	49.7	48.3	45.6	47.0
80°	11.8	14.3	19.6	22.2	27.4	28.7	30.0	31.4	30.0	31.4	31.4
82.5°	9.1	10.4	13.1	13.1	16.9	16.9	18.3	18.3	19.6	19.6	19.6
85°	5.2	9.1	7.8	15.7	10.4	10.4	13.1	15.7	13.1	13.1	15.7
87.5°	5.2	5.2	3.9	5.2	5.2	5.2	6.5	7.8	7.8	9.1	7.8
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: P244661

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2432.1	2432.1	2432.1	2432.1
2.5°	2436.0	2438.6	2434.7	2433.4
5°	2440.0	2440.0	2437.3	2437.3
7.5°	2440.0	2440.0	2436.0	2433.4
10°	2429.4	2429.4	2425.6	2422.9
12.5°	2409.9	2409.9	2408.6	2404.7
15°	2385.2	2385.2	2379.9	2376.0
17.5°	2351.2	2353.8	2347.3	2347.3
20°	2314.6	2313.3	2308.1	2305.4
22.5°	2276.8	2274.2	2272.8	2265.0
25°	2236.3	2233.7	2229.8	2225.9
27.5°	2167.1	2165.8	2161.8	2156.7
30°	2061.3	2060.1	2054.8	2054.8
32.5°	1924.3	1923.0	1917.7	1919.0
35°	1781.9	1787.2	1784.6	1779.4
37.5°	1663.1	1667.0	1669.7	1667.0
40°	1563.9	1575.7	1577.0	1579.6
42.5°	1458.2	1473.9	1479.2	1481.7
45°	1331.5	1346.0	1357.6	1355.1
47.5°	1202.3	1212.8	1223.2	1215.4
50°	1078.3	1084.8	1088.7	1088.7
52.5°	960.8	960.8	959.6	960.8
55°	826.4	826.4	821.1	823.7
57.5°	685.4	688.0	684.0	677.5
60°	554.8	548.3	545.7	541.8
62.5°	432.1	432.1	423.0	434.7
65°	323.7	319.8	315.9	314.6
67.5°	235.0	233.7	229.8	228.5
70°	165.8	160.5	159.3	156.6
72.5°	111.0	111.0	108.4	108.4
75°	67.9	61.3	60.1	61.3
77.5°	47.0	45.6	45.6	44.4
80°	31.4	30.0	32.6	28.7
82.5°	19.6	20.9	19.6	20.9
85°	13.1	15.7	14.3	14.3
87.5°	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)