

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: P248524

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248524
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 EC8B60927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4437.0 lumens
Efficiency: N/A
Efficacy: 74.6 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

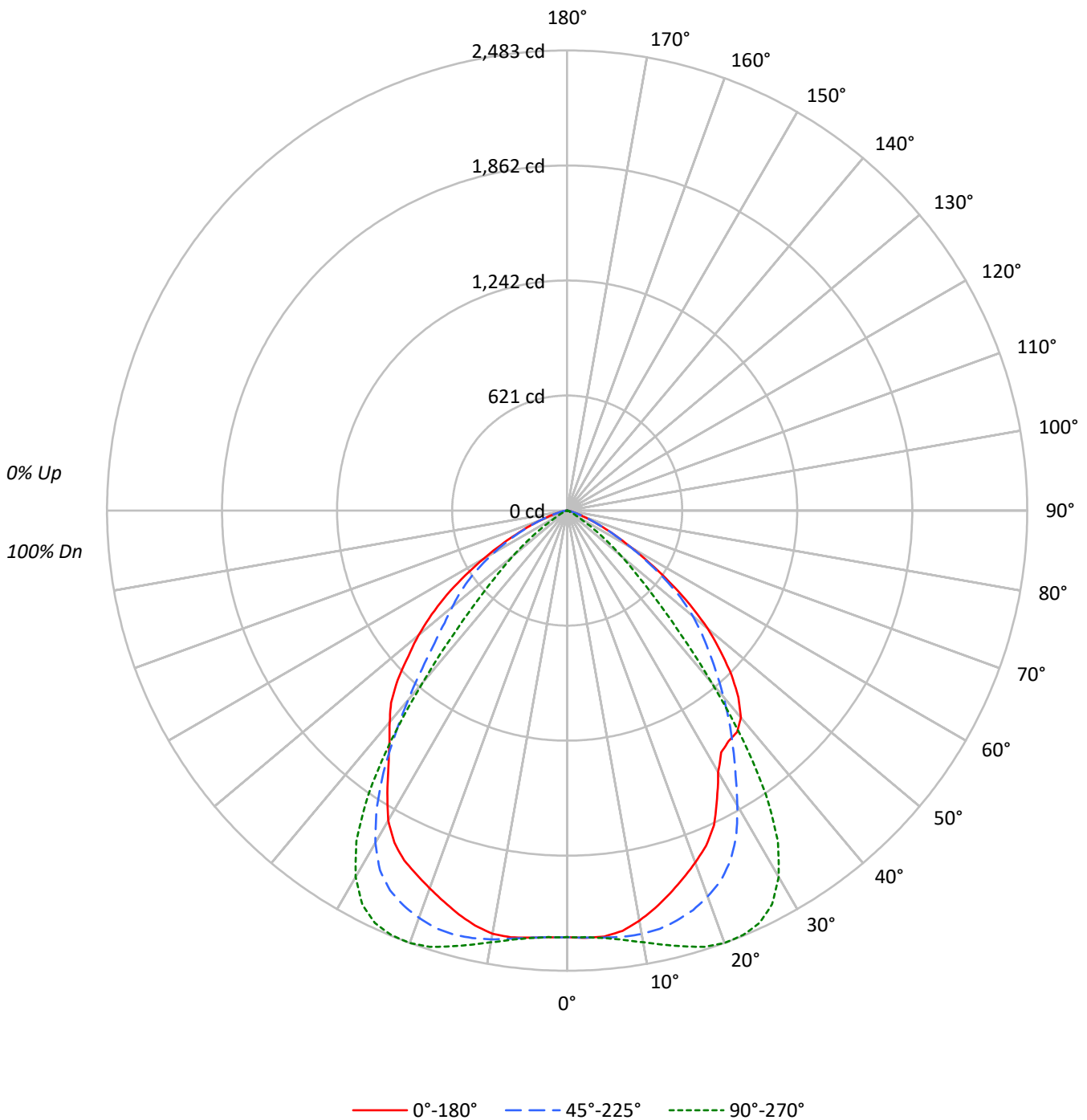
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	221.4	5.0
10°-20°	655.7	14.8
20°-30°	1000.4	22.5
30°-40°	1043.9	23.5
40°-50°	784.1	17.7
50°-60°	482.5	10.9
60°-70°	196.4	4.4
70°-80°	46.3	1.0
80°-90°	6.4	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°	1877.5	42.3
0°-40°	2921.4	65.8
0°-60°	4188.0	94.4
0°-90°	4437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2302	2302	2302	2302	2302	
5°	2307	2313	2315	2313	2313	218
15°	2139	2290	2435	2368	2257	603
25°	1874	2084	2456	2262	2082	852
35°	1519	1561	1870	1729	1680	959
45°	1254	1085	677	1010	1293	956
55°	677	643	177	643	793	608
65°	211	214	27	287	304	220
75°	37	37	5	65	67	44
85°	4	4	1	8	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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2307.9	2304.2	2307.9	2307.9	2309.1	2306.7	2307.9	2309.1	2306.7	2306.7	2306.7
5°	2306.7	2304.2	2306.7	2305.4	2307.9	2307.9	2310.3	2310.3	2312.8	2312.8	2316.4
7.5°	2287.1	2282.2	2287.1	2290.8	2293.2	2298.1	2304.2	2309.1	2314.0	2318.9	2325.0
10°	2246.8	2246.8	2250.5	2257.8	2265.1	2273.7	2284.7	2296.9	2309.1	2320.1	2331.1
12.5°	2196.7	2193.0	2200.4	2210.1	2221.1	2234.6	2251.7	2270.0	2289.6	2311.5	2328.7
15°	2139.3	2135.6	2144.2	2153.9	2167.4	2186.9	2207.7	2232.1	2260.2	2289.6	2317.7
17.5°	2080.6	2079.4	2088.0	2101.4	2112.4	2133.2	2160.1	2189.4	2221.1	2260.2	2296.9
20°	2020.8	2019.6	2028.1	2039.1	2053.8	2073.3	2100.2	2134.4	2172.3	2216.3	2259.0
22.5°	1958.5	1959.7	1967.0	1979.2	1991.5	2012.2	2040.3	2074.5	2116.1	2163.7	2211.4
25°	1874.2	1868.1	1877.8	1890.1	1910.8	1927.9	1954.8	1991.5	2034.2	2084.3	2140.5
27.5°	1752.0	1750.8	1759.3	1770.3	1788.6	1809.4	1838.7	1876.6	1921.8	1976.8	2031.8
30°	1629.8	1632.2	1635.9	1646.9	1659.1	1679.9	1709.2	1741.0	1783.8	1836.3	1894.9
32.5°	1546.7	1546.7	1551.6	1558.9	1567.5	1578.5	1599.3	1622.5	1655.5	1692.1	1734.9
35°	1518.6	1513.7	1518.6	1519.8	1521.1	1523.5	1527.2	1534.5	1545.5	1561.4	1577.3
37.5°	1506.4	1502.7	1502.7	1497.9	1491.7	1484.4	1474.6	1463.6	1451.4	1435.5	1423.3
40°	1458.8	1456.3	1453.9	1449.0	1435.5	1420.9	1405.0	1379.3	1351.2	1312.1	1273.1
42.5°	1367.1	1364.7	1363.5	1353.7	1341.5	1324.4	1306.0	1279.2	1243.7	1193.6	1137.4
45°	1253.5	1248.6	1245.0	1236.4	1227.8	1213.2	1196.1	1171.6	1136.2	1084.9	1017.7
47.5°	1121.6	1119.1	1117.9	1114.2	1105.7	1097.1	1086.1	1066.6	1034.8	985.9	916.3
50°	988.4	983.5	985.9	984.7	981.1	975.0	967.6	954.2	929.7	885.8	822.2
52.5°	835.7	835.7	834.5	838.1	839.3	838.1	839.3	824.7	803.9	770.9	717.2
55°	676.8	676.8	680.5	685.4	690.3	691.5	690.3	684.2	669.5	642.6	595.0
57.5°	527.8	525.4	532.7	540.0	544.9	549.8	546.1	541.2	532.7	510.7	474.0
60°	402.0	402.0	406.8	411.7	416.6	421.5	420.3	419.1	411.7	397.1	367.8
62.5°	295.7	296.9	296.9	300.6	305.4	310.3	314.0	310.3	306.7	296.9	277.3
65°	211.4	210.1	211.4	215.0	218.7	223.6	226.0	224.8	221.1	213.8	199.2
67.5°	141.7	140.5	145.4	146.6	149.1	154.0	152.7	154.0	152.7	146.6	134.4
70°	92.9	90.4	92.9	91.6	95.3	96.5	99.0	100.2	99.0	95.3	91.6
72.5°	57.4	56.2	57.4	58.7	59.9	61.1	63.5	63.5	62.3	59.9	55.0
75°	36.7	33.0	34.2	31.8	34.2	34.2	36.7	37.9	36.7	36.7	34.2
77.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	23.2	24.4	22.0	20.8
80°	11.0	11.0	12.2	12.2	12.2	13.5	12.2	12.2	12.2	13.5	9.8
82.5°	8.5	7.3	7.3	7.3	8.5	7.3	7.3	7.3	7.3	7.3	7.3
85°	3.7	4.9	3.7	2.5	3.7	3.7	4.9	3.7	3.7	3.7	4.9
87.5°	1.2	1.2	0.0	0.0	0.0	1.2	0.0	1.2	1.2	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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2307.9	2305.4	2305.4	2304.2	2306.7	2304.2	2305.4	2304.2	2304.2	2306.7	2304.2
5°	2316.4	2317.7	2315.2	2314.0	2317.7	2317.7	2317.7	2315.2	2315.2	2316.4	2315.2
7.5°	2328.7	2331.1	2332.3	2333.5	2336.0	2337.2	2337.2	2336.0	2334.8	2338.4	2333.5
10°	2342.1	2345.8	2353.1	2356.8	2362.9	2362.9	2365.3	2365.3	2362.9	2365.3	2364.1
12.5°	2337.2	2359.2	2371.4	2380.0	2388.5	2395.8	2398.3	2399.5	2398.3	2403.2	2398.3
15°	2345.8	2364.1	2383.6	2398.3	2414.2	2422.7	2425.2	2434.9	2437.4	2438.6	2431.3
17.5°	2332.3	2365.3	2386.1	2408.1	2431.3	2447.2	2461.8	2467.9	2469.2	2471.6	2461.8
20°	2301.8	2338.4	2370.2	2402.0	2428.8	2453.3	2465.5	2482.6	2477.7	2487.5	2474.0
22.5°	2260.2	2301.8	2342.1	2383.6	2411.7	2441.1	2466.7	2478.9	2485.0	2485.0	2470.4
25°	2194.3	2243.1	2287.1	2329.9	2372.6	2408.1	2437.4	2455.7	2459.4	2458.2	2441.1
27.5°	2091.6	2144.2	2195.5	2244.4	2296.9	2338.4	2372.6	2394.6	2400.7	2400.7	2382.4
30°	1949.9	2006.1	2056.2	2114.8	2168.6	2215.0	2262.7	2282.2	2293.2	2293.2	2272.5
32.5°	1781.3	1829.0	1875.4	1932.8	1991.5	2044.0	2089.2	2116.1	2129.5	2128.3	2110.0
35°	1598.1	1621.2	1656.7	1699.5	1752.0	1800.9	1844.8	1870.5	1893.7	1892.5	1875.4
37.5°	1414.8	1408.7	1412.3	1428.2	1461.2	1495.4	1529.6	1554.1	1573.6	1582.2	1578.5
40°	1235.2	1203.4	1172.9	1161.9	1164.3	1176.5	1194.9	1213.2	1235.2	1246.2	1251.1
42.5°	1073.9	1020.2	966.4	926.1	902.9	895.5	904.1	910.2	923.6	939.5	955.4
45°	944.4	872.3	801.5	739.2	700.1	676.8	672.0	676.8	684.2	700.1	720.8
47.5°	838.1	753.8	674.4	604.8	547.3	516.8	508.3	505.8	513.1	527.8	555.9
50°	744.0	659.7	571.8	491.1	431.3	397.1	384.9	380.0	388.5	399.5	425.2
52.5°	641.4	558.3	467.9	389.7	327.4	292.0	278.6	271.2	276.1	290.8	316.4
55°	530.2	453.3	371.4	290.8	230.9	197.9	182.0	177.2	182.0	197.9	223.6
57.5°	419.1	354.3	285.9	210.1	156.4	123.4	107.5	102.6	116.1	122.2	149.1
60°	327.4	274.9	216.3	154.0	107.5	81.9	66.0	62.3	68.4	79.4	101.4
62.5°	245.6	212.6	166.2	110.0	79.4	52.5	44.0	40.3	44.0	52.5	69.7
65°	178.4	152.7	116.1	80.6	53.7	39.1	29.3	26.9	30.6	36.7	51.3
67.5°	122.2	102.6	80.6	56.2	36.7	24.4	20.8	20.8	22.0	26.9	37.9
70°	79.4	67.2	51.3	36.7	24.4	18.3	15.9	13.5	15.9	19.6	25.6
72.5°	50.1	42.7	33.0	25.6	18.3	13.5	11.0	9.8	12.2	14.6	19.6
75°	30.6	23.2	17.1	13.5	9.8	9.8	9.8	4.9	6.1	9.8	12.2
77.5°	18.3	15.9	13.5	11.0	8.5	4.9	4.9	4.9	6.1	7.3	11.0
80°	9.8	8.5	6.1	6.1	4.9	3.7	4.9	3.7	2.5	6.1	7.3
82.5°	6.1	4.9	4.9	4.9	6.1	2.5	3.7	2.5	3.7	4.9	3.7
85°	3.7	3.7	3.7	2.5	6.1	2.5	2.5	1.2	1.2	2.5	2.5
87.5°	0.0	1.2	1.2	0.0	1.2	0.0	1.2	1.2	1.2	1.2	1.2
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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2305.4	2304.2	2305.4	2304.2	2304.2	2304.2	2305.4	2305.4	2304.2	2304.2	2306.7
5°	2315.2	2315.2	2315.2	2314.0	2312.8	2312.8	2315.2	2315.2	2311.5	2315.2	2315.2
7.5°	2336.0	2332.3	2336.0	2331.1	2328.7	2329.9	2331.1	2328.7	2326.2	2327.4	2327.4
10°	2362.9	2359.2	2359.2	2355.5	2351.9	2349.4	2347.0	2340.9	2334.8	2333.5	2328.7
12.5°	2394.6	2388.5	2384.9	2377.5	2371.4	2362.9	2355.5	2345.8	2333.5	2325.0	2316.4
15°	2426.4	2416.6	2408.1	2395.8	2382.4	2367.7	2351.9	2336.0	2316.4	2299.3	2284.7
17.5°	2452.0	2438.6	2422.7	2403.2	2383.6	2361.6	2338.4	2315.2	2287.1	2265.1	2248.0
20°	2460.6	2441.1	2420.3	2394.6	2369.0	2338.4	2309.1	2278.6	2246.8	2223.6	2204.0
22.5°	2449.6	2426.4	2400.7	2373.9	2339.6	2306.7	2272.5	2237.0	2208.9	2177.2	2158.8
25°	2419.1	2391.0	2362.9	2331.1	2298.1	2261.5	2224.8	2188.2	2153.9	2136.8	2113.6
27.5°	2356.8	2326.2	2295.7	2262.7	2224.8	2188.2	2150.3	2114.8	2085.5	2062.3	2048.9
30°	2246.8	2211.4	2175.9	2140.5	2107.5	2069.6	2034.2	2004.9	1975.6	1957.2	1943.8
32.5°	2078.2	2046.4	2011.0	1976.8	1946.3	1914.5	1885.2	1859.5	1838.7	1826.5	1816.7
35°	1851.0	1819.2	1792.3	1767.9	1742.2	1728.8	1710.5	1695.8	1687.2	1682.4	1681.1
37.5°	1565.0	1546.7	1538.2	1533.3	1528.4	1524.7	1527.2	1533.3	1538.2	1546.7	1556.5
40°	1259.6	1275.5	1280.4	1297.5	1313.4	1334.1	1357.4	1384.2	1406.2	1434.3	1453.9
42.5°	981.1	1010.4	1044.6	1081.2	1120.3	1158.2	1204.6	1247.4	1286.5	1321.9	1352.5
45°	753.8	799.0	850.3	902.9	955.4	1010.4	1066.6	1119.1	1165.5	1203.4	1235.2
47.5°	587.7	637.8	703.7	768.5	832.0	896.8	959.1	1014.0	1053.1	1089.8	1117.9
50°	465.5	522.9	595.0	669.5	739.2	807.6	873.5	924.9	964.0	993.3	1014.0
52.5°	360.4	428.8	502.1	580.3	654.9	729.4	790.5	838.1	869.9	895.5	911.4
55°	268.8	336.0	414.2	494.8	570.6	642.6	700.1	741.6	769.7	784.4	792.9
57.5°	194.3	255.4	333.5	414.2	482.6	551.0	597.4	635.3	651.2	659.7	663.4
60°	141.7	197.9	267.6	337.2	402.0	456.9	497.3	522.9	535.1	540.0	538.8
62.5°	103.9	152.7	212.6	271.2	323.8	369.0	400.7	417.8	424.0	426.4	422.7
65°	79.4	117.3	168.6	213.8	254.1	287.1	310.3	321.3	325.0	323.8	321.3
67.5°	58.7	88.0	125.9	160.1	189.4	215.0	227.3	237.0	239.5	235.8	232.1
70°	41.6	64.8	91.6	114.9	136.8	151.5	164.9	166.2	166.2	164.9	162.5
72.5°	29.3	45.2	62.3	78.2	91.6	102.6	107.5	111.2	110.0	108.7	106.3
75°	19.6	28.1	45.2	48.9	61.1	64.8	69.7	69.7	70.8	67.2	67.2
77.5°	12.2	19.6	26.9	31.8	36.7	41.6	44.0	44.0	45.2	44.0	44.0
80°	7.3	12.2	14.6	22.0	22.0	25.6	26.9	28.1	25.6	29.3	25.6
82.5°	4.9	7.3	11.0	11.0	13.5	15.9	15.9	17.1	17.1	15.9	15.9
85°	3.7	4.9	6.1	7.3	7.3	8.5	7.3	7.3	8.5	9.8	8.5
87.5°	1.2	2.5	1.2	2.5	2.5	4.9	3.7	3.7	3.7	4.9	4.9
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: P248524

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2301.8	2301.8	2301.8	2301.8
2.5°	2304.2	2305.4	2304.2	2304.2
5°	2315.2	2314.0	2315.2	2312.8
7.5°	2323.8	2323.8	2322.5	2322.5
10°	2323.8	2318.9	2318.9	2318.9
12.5°	2305.4	2299.3	2295.7	2293.2
15°	2273.7	2262.7	2257.8	2256.6
17.5°	2232.1	2222.4	2216.3	2212.6
20°	2184.5	2174.7	2167.4	2168.6
22.5°	2142.9	2132.0	2127.1	2124.6
25°	2101.4	2088.0	2084.3	2081.9
27.5°	2034.2	2026.9	2023.2	2019.6
30°	1931.6	1927.9	1921.8	1930.4
32.5°	1813.1	1807.0	1802.1	1805.8
35°	1682.4	1678.7	1682.4	1679.9
37.5°	1562.6	1566.3	1571.2	1573.6
40°	1468.5	1482.0	1486.9	1489.3
42.5°	1374.5	1390.3	1400.1	1406.2
45°	1258.4	1274.3	1285.3	1292.6
47.5°	1138.7	1152.1	1163.1	1161.9
50°	1029.9	1037.3	1042.1	1047.0
52.5°	920.0	920.0	921.2	921.2
55°	795.4	792.9	791.7	792.9
57.5°	658.5	656.1	654.9	651.2
60°	533.9	526.6	521.7	521.7
62.5°	417.8	409.3	405.6	404.4
65°	314.0	312.8	305.4	304.2
67.5°	227.3	222.4	217.5	218.7
70°	160.1	152.7	152.7	150.3
72.5°	103.9	100.2	99.0	99.0
75°	64.8	64.8	62.3	67.2
77.5°	42.7	42.7	41.6	42.7
80°	25.6	25.6	25.6	24.4
82.5°	15.9	17.1	15.9	15.9
85°	8.5	9.8	7.3	11.0
87.5°	4.9	6.1	4.9	6.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)