

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: P249172

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249172  
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: LSR8B60D010 EC8B609727 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4403.0 lumens  
Efficiency: N/A  
Efficacy: 74.0 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

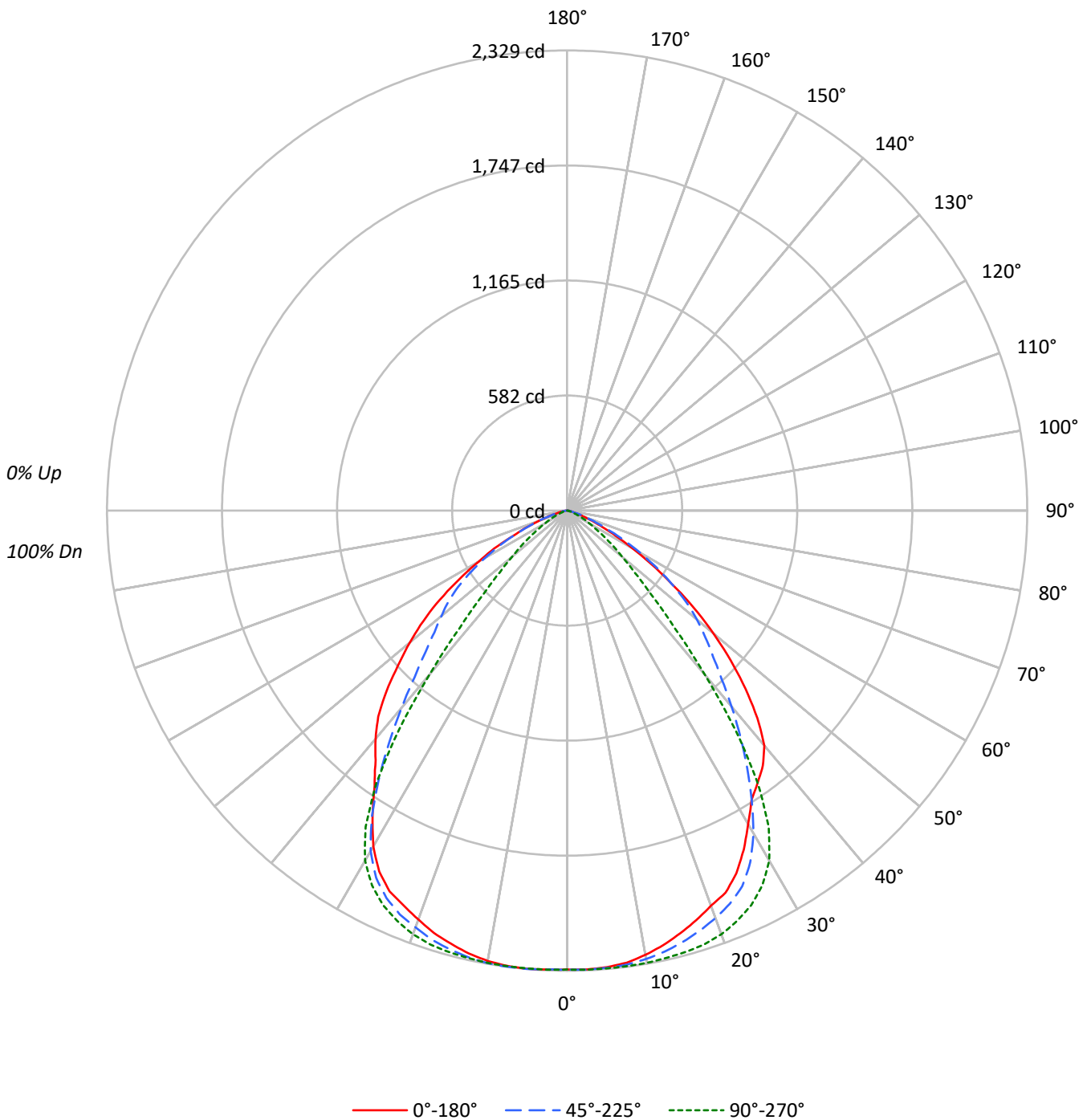
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	221.7	5.0
10°-20°	643.9	14.6
20°-30°	977.3	22.2
30°-40°	1026.4	23.3
40°-50°	769.5	17.5
50°-60°	493.8	11.2
60°-70°	211.2	4.8
70°-80°	49.9	1.1
80°-90°	9.3	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°	1842.9	41.9
0°-40°	2869.3	65.2
0°-60°	4132.6	93.9
0°-90°	4403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4403.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2323	2323	2323	2323	2323	
5°	2319	2323	2326	2329	2328	220
15°	2215	2261	2313	2298	2270	625
25°	2026	2097	2203	2164	2126	926
35°	1681	1587	1682	1662	1700	1055
45°	1277	1044	600	1014	1294	978
55°	646	646	223	673	787	586
65°	194	229	71	296	300	208
75°	30	35	10	60	59	44
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°	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1
2.5°	2324.4	2326.9	2325.6	2325.6	2324.4	2325.6	2325.6	2328.1	2328.1	2325.6	2324.4
5°	2319.4	2321.9	2321.9	2319.4	2319.4	2325.6	2321.9	2324.4	2324.4	2323.1	2323.1
7.5°	2308.2	2308.2	2313.1	2309.4	2309.4	2313.1	2311.9	2314.4	2316.9	2318.1	2318.1
10°	2283.2	2285.7	2287.0	2287.0	2288.2	2291.9	2294.4	2299.4	2301.9	2304.4	2305.7
12.5°	2252.0	2255.8	2257.0	2255.8	2259.5	2264.5	2270.8	2277.0	2280.7	2285.7	2289.5
15°	2214.6	2214.6	2217.1	2220.9	2223.4	2230.8	2237.1	2244.5	2254.5	2260.8	2267.0
17.5°	2173.5	2176.0	2179.7	2179.7	2184.7	2197.2	2200.9	2212.1	2223.4	2229.6	2242.1
20°	2128.6	2131.1	2134.8	2137.3	2143.5	2153.5	2161.0	2171.0	2183.5	2194.7	2207.1
22.5°	2093.7	2088.7	2091.2	2093.7	2099.9	2108.6	2117.4	2129.8	2142.3	2153.5	2166.0
25°	2026.3	2027.6	2031.3	2033.8	2041.3	2048.8	2058.8	2073.7	2084.9	2097.4	2111.1
27.5°	1935.3	1936.6	1942.8	1942.8	1949.0	1961.5	1967.7	1980.2	1995.2	2007.6	2023.9
30°	1831.8	1834.3	1834.3	1839.3	1843.0	1849.3	1855.5	1868.0	1875.4	1886.7	1909.1
32.5°	1737.0	1739.5	1738.3	1737.0	1733.3	1732.0	1730.8	1733.3	1735.8	1739.5	1748.2
35°	1680.9	1674.7	1669.7	1661.0	1651.0	1638.5	1627.3	1612.3	1598.6	1587.4	1574.9
37.5°	1627.3	1626.0	1618.6	1606.1	1586.1	1563.7	1537.5	1505.1	1472.7	1437.8	1404.1
40°	1552.5	1548.7	1542.5	1525.1	1502.6	1475.2	1440.3	1400.4	1348.0	1294.4	1239.5
42.5°	1425.3	1426.5	1419.1	1405.3	1384.2	1357.9	1321.8	1278.2	1222.0	1158.4	1087.4
45°	1276.9	1276.9	1274.4	1263.2	1248.2	1227.0	1199.6	1163.4	1108.6	1043.7	967.6
47.5°	1122.3	1123.5	1119.8	1117.3	1111.0	1097.3	1077.4	1050.0	1011.3	948.9	872.9
50°	965.2	965.2	971.4	970.1	970.1	965.2	956.4	940.2	906.6	856.7	785.6
52.5°	808.0	810.5	814.3	819.3	825.5	835.5	825.5	818.0	796.8	758.1	697.1
55°	645.9	648.4	654.7	663.4	670.9	680.9	683.3	683.3	672.1	645.9	599.8
57.5°	507.5	503.8	508.8	516.3	526.2	536.2	543.7	552.4	551.2	533.7	496.3
60°	381.6	382.8	386.5	394.1	401.5	410.3	420.2	427.7	431.5	422.7	399.0
62.5°	278.1	278.1	283.1	290.5	294.3	306.8	313.0	316.7	320.5	319.2	304.3
65°	194.5	197.0	199.5	203.3	207.0	214.5	218.2	225.7	228.2	229.4	218.2
67.5°	137.2	133.4	135.9	138.4	142.2	147.2	154.6	154.6	158.4	158.4	150.9
70°	87.3	87.3	88.5	92.3	94.8	96.0	98.5	101.0	104.7	103.5	103.5
72.5°	58.6	57.4	58.6	59.9	61.1	64.8	64.8	66.1	68.6	69.8	64.8
75°	29.9	31.2	33.7	32.4	36.2	33.7	34.9	38.7	37.4	34.9	34.9
77.5°	24.9	24.9	24.9	23.7	26.2	26.2	24.9	27.4	26.2	26.2	24.9
80°	17.5	18.7	17.5	16.2	17.5	16.2	16.2	16.2	16.2	16.2	15.0
82.5°	13.7	11.2	12.5	11.2	12.5	12.5	11.2	10.0	10.0	11.2	10.0
85°	10.0	7.5	8.7	8.7	7.5	7.5	7.5	7.5	7.5	6.2	6.2
87.5°	6.2	3.8	3.8	3.8	5.0	5.0	5.0	3.8	5.0	5.0	2.5
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°	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1
2.5°	2326.9	2325.6	2328.1	2326.9	2326.9	2325.6	2326.9	2325.6	2328.1	2323.1	2324.4
5°	2326.9	2324.4	2325.6	2326.9	2328.1	2325.6	2325.6	2325.6	2328.1	2325.6	2326.9
7.5°	2321.9	2320.6	2324.4	2326.9	2325.6	2324.4	2326.9	2325.6	2328.1	2326.9	2329.3
10°	2311.9	2313.1	2315.6	2319.4	2320.6	2321.9	2324.4	2324.4	2328.1	2323.1	2325.6
12.5°	2296.9	2301.9	2308.2	2310.6	2315.6	2315.6	2318.1	2319.4	2321.9	2320.6	2324.4
15°	2278.2	2284.5	2291.9	2298.2	2304.4	2308.2	2311.9	2313.1	2316.9	2313.1	2314.4
17.5°	2255.8	2263.2	2274.5	2281.9	2291.9	2295.7	2300.7	2303.2	2306.9	2304.4	2305.7
20°	2224.6	2233.3	2245.8	2257.0	2263.2	2272.0	2278.2	2281.9	2284.5	2281.9	2283.2
22.5°	2181.0	2193.4	2209.6	2218.4	2230.8	2238.3	2239.6	2248.3	2254.5	2248.3	2250.8
25°	2129.8	2142.3	2154.8	2173.5	2184.7	2193.4	2202.2	2203.4	2209.6	2208.4	2207.1
27.5°	2045.0	2061.3	2082.4	2097.4	2112.4	2126.1	2136.1	2138.5	2144.8	2142.3	2143.5
30°	1929.1	1946.5	1966.5	1990.2	2011.4	2025.1	2037.6	2046.3	2052.5	2048.8	2047.5
32.5°	1764.5	1781.9	1803.1	1826.8	1851.8	1871.7	1886.7	1897.9	1905.4	1902.9	1896.7
35°	1576.2	1581.2	1594.9	1613.6	1634.8	1656.0	1669.7	1682.2	1690.9	1693.4	1693.4
37.5°	1382.9	1366.7	1356.7	1356.7	1369.2	1377.9	1390.4	1397.9	1411.6	1416.6	1420.3
40°	1195.8	1158.4	1123.5	1097.3	1079.9	1078.6	1078.6	1082.4	1094.8	1111.0	1126.0
42.5°	1028.8	968.9	915.3	866.6	831.7	811.8	803.1	804.3	814.3	829.2	854.2
45°	895.3	820.5	753.2	694.6	647.2	616.0	601.0	599.8	607.3	624.7	652.2
47.5°	791.8	712.0	635.9	568.6	517.5	483.8	466.4	461.4	466.4	482.6	515.0
50°	705.8	623.5	544.9	475.1	420.2	385.3	369.1	362.9	369.1	382.8	415.2
52.5°	626.0	541.2	467.6	400.3	341.7	311.7	294.3	290.5	294.3	310.5	336.7
55°	533.7	461.4	389.1	321.7	270.6	240.7	226.9	223.2	226.9	241.9	269.4
57.5°	442.7	380.3	316.7	255.6	212.0	185.8	173.3	168.3	177.1	187.0	219.5
60°	357.9	308.0	254.4	200.8	164.6	140.9	130.9	129.7	132.2	144.7	167.1
62.5°	280.6	239.4	197.0	153.4	123.4	113.5	101.0	99.8	102.2	109.7	127.2
65°	202.0	175.8	143.4	112.2	88.5	74.8	69.8	71.1	73.6	78.6	94.8
67.5°	140.9	122.2	99.8	78.6	61.1	54.9	49.9	48.6	49.9	58.6	67.3
70°	94.8	83.5	67.3	59.9	42.4	33.7	34.9	31.2	36.2	36.2	43.6
72.5°	62.3	54.9	44.9	34.9	29.9	23.7	23.7	22.5	24.9	26.2	32.4
75°	32.4	24.9	24.9	17.5	12.5	6.2	11.2	10.0	8.7	10.0	12.5
77.5°	22.5	18.7	17.5	13.7	12.5	10.0	10.0	10.0	10.0	11.2	12.5
80°	13.7	13.7	10.0	8.7	7.5	6.2	7.5	7.5	7.5	7.5	8.7
82.5°	8.7	7.5	7.5	6.2	6.2	5.0	5.0	5.0	5.0	5.0	7.5
85°	7.5	5.0	5.0	3.8	5.0	8.7	3.8	5.0	5.0	5.0	3.8
87.5°	2.5	3.8	3.8	3.8	2.5	1.3	2.5	3.8	3.8	6.2	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1	2323.1
2.5°	2326.9	2328.1	2328.1	2326.9	2326.9	2324.4	2329.3	2325.6	2326.9	2331.8	2328.1
5°	2329.3	2330.6	2330.6	2329.3	2329.3	2329.3	2330.6	2330.6	2329.3	2328.1	2330.6
7.5°	2334.3	2333.1	2333.1	2330.6	2330.6	2328.1	2330.6	2326.9	2329.3	2326.9	2330.6
10°	2328.1	2329.3	2328.1	2326.9	2326.9	2325.6	2325.6	2321.9	2323.1	2319.4	2321.9
12.5°	2324.4	2323.1	2323.1	2320.6	2318.1	2315.6	2314.4	2310.6	2310.6	2301.9	2305.7
15°	2314.4	2315.6	2311.9	2306.9	2304.4	2298.2	2295.7	2290.7	2285.7	2279.5	2280.7
17.5°	2305.7	2301.9	2296.9	2291.9	2281.9	2277.0	2272.0	2264.5	2262.0	2254.5	2252.0
20°	2279.5	2277.0	2270.8	2262.0	2255.8	2244.5	2239.6	2232.1	2225.8	2218.4	2214.6
22.5°	2245.8	2243.3	2235.8	2227.1	2217.1	2212.1	2207.1	2193.4	2187.2	2179.7	2178.5
25°	2203.4	2199.7	2192.2	2182.2	2177.2	2163.5	2158.5	2148.5	2146.1	2138.5	2137.3
27.5°	2138.5	2133.6	2124.8	2112.4	2103.6	2094.9	2089.9	2082.4	2080.0	2072.5	2071.2
30°	2041.3	2035.1	2017.6	2012.6	1997.6	1988.9	1988.9	1978.9	1980.2	1975.2	1975.2
32.5°	1887.9	1877.9	1864.2	1854.2	1844.3	1839.3	1839.3	1835.5	1838.0	1838.0	1840.5
35°	1684.7	1671.0	1663.5	1657.2	1657.2	1662.2	1677.2	1680.9	1688.4	1694.6	1699.6
37.5°	1424.0	1422.8	1431.5	1439.0	1457.7	1478.9	1505.1	1527.6	1548.7	1563.7	1578.7
40°	1142.2	1173.4	1198.3	1233.3	1261.9	1303.1	1350.5	1389.1	1425.3	1451.5	1478.9
42.5°	891.6	931.5	983.9	1035.0	1086.1	1142.2	1204.6	1258.2	1305.6	1341.7	1370.4
45°	694.6	749.4	813.0	877.9	944.0	1013.8	1078.6	1133.5	1183.4	1220.8	1249.5
47.5°	559.9	619.7	692.1	763.2	838.0	911.5	983.9	1031.3	1072.4	1102.3	1128.5
50°	462.6	526.2	602.3	683.3	758.1	831.7	894.1	940.2	973.9	1000.1	1016.3
52.5°	386.5	453.9	535.0	616.0	690.8	758.1	814.3	849.2	876.6	895.3	910.3
55°	319.2	384.1	460.1	536.2	609.8	673.4	719.5	745.7	766.9	778.1	786.8
57.5°	260.6	320.5	390.3	460.1	523.7	576.1	612.3	638.5	648.4	657.2	655.9
60°	204.5	260.6	324.2	384.1	438.9	481.3	507.5	522.5	530.0	533.7	531.2
62.5°	160.9	212.0	260.6	313.0	352.9	389.1	414.0	414.0	417.7	419.0	422.7
65°	119.7	158.4	200.8	239.4	271.8	295.5	309.3	313.0	318.0	316.7	314.2
67.5°	88.5	117.2	148.4	177.1	199.5	214.5	224.4	233.2	231.9	229.4	228.2
70°	61.1	79.8	107.2	124.7	140.9	155.9	158.4	159.6	160.9	162.1	159.6
72.5°	42.4	56.1	71.1	86.0	96.0	102.2	108.5	109.7	109.7	109.7	108.5
75°	21.2	28.7	42.4	48.6	57.4	59.9	64.8	64.8	68.6	63.6	62.3
77.5°	18.7	22.5	29.9	34.9	38.7	42.4	43.6	47.4	46.1	43.6	44.9
80°	11.2	13.7	18.7	21.2	26.2	27.4	28.7	29.9	28.7	29.9	29.9
82.5°	8.7	10.0	12.5	12.5	16.2	16.2	17.5	17.5	18.7	18.7	18.7
85°	5.0	8.7	7.5	15.0	10.0	10.0	12.5	15.0	12.5	12.5	15.0
87.5°	5.0	5.0	3.8	5.0	5.0	5.0	6.2	7.5	7.5	8.7	7.5
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: P249172

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2323.1	2323.1	2323.1	2323.1
2.5°	2326.9	2329.3	2325.6	2324.4
5°	2330.6	2330.6	2328.1	2328.1
7.5°	2330.6	2330.6	2326.9	2324.4
10°	2320.6	2320.6	2316.9	2314.4
12.5°	2301.9	2301.9	2300.7	2296.9
15°	2278.2	2278.2	2273.2	2269.5
17.5°	2245.8	2248.3	2242.1	2242.1
20°	2210.9	2209.6	2204.7	2202.2
22.5°	2174.7	2172.2	2171.0	2163.5
25°	2136.1	2133.6	2129.8	2126.1
27.5°	2070.0	2068.7	2065.0	2060.0
30°	1969.0	1967.7	1962.7	1962.7
32.5°	1838.0	1836.8	1831.8	1833.1
35°	1702.1	1707.1	1704.6	1699.6
37.5°	1588.6	1592.4	1594.9	1592.4
40°	1493.9	1505.1	1506.3	1508.9
42.5°	1392.9	1407.8	1412.8	1415.3
45°	1271.9	1285.6	1296.9	1294.4
47.5°	1148.5	1158.4	1168.4	1160.9
50°	1030.0	1036.2	1040.0	1040.0
52.5°	917.8	917.8	916.5	917.8
55°	789.3	789.3	784.4	786.8
57.5°	654.7	657.2	653.4	647.2
60°	530.0	523.7	521.2	517.5
62.5°	412.8	412.8	404.0	415.2
65°	309.3	305.5	301.8	300.5
67.5°	224.4	223.2	219.5	218.2
70°	158.4	153.4	152.1	149.6
72.5°	106.0	106.0	103.5	103.5
75°	64.8	58.6	57.4	58.6
77.5°	44.9	43.6	43.6	42.4
80°	29.9	28.7	31.2	27.4
82.5°	18.7	20.0	18.7	20.0
85°	12.5	15.0	13.7	13.7
87.5°	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)