

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: P249496

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249496  
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 EC8B60927 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4383.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 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

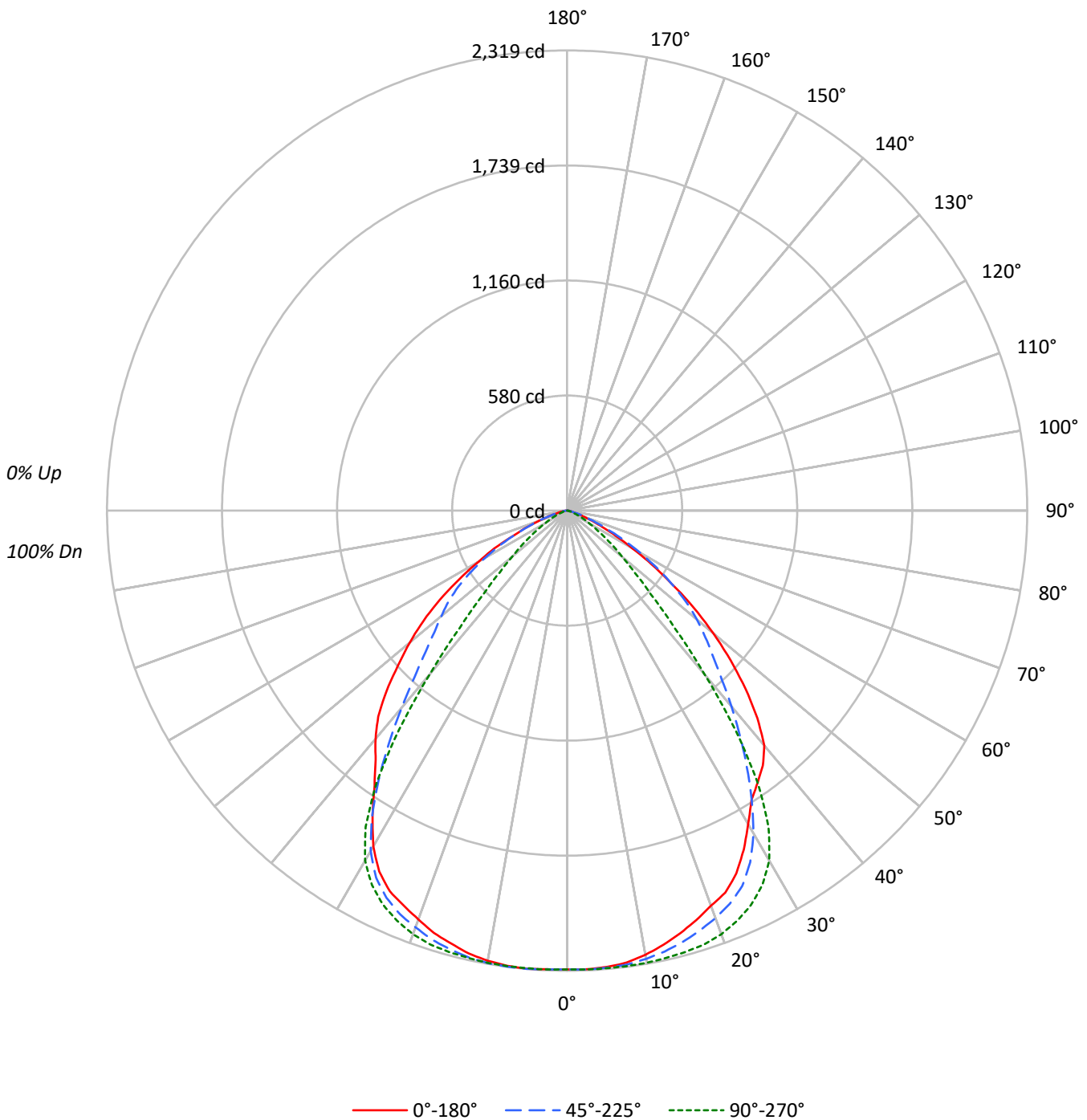
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	220.7	5.0
10°-20°	640.9	14.6
20°-30°	972.8	22.2
30°-40°	1021.8	23.3
40°-50°	766.1	17.5
50°-60°	491.5	11.2
60°-70°	210.3	4.8
70°-80°	49.7	1.1
80°-90°	9.2	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°	1834.5	41.9
0°-40°	2856.3	65.2
0°-60°	4113.8	93.9
0°-90°	4383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2312	2312	2312	2312	2312	
5°	2309	2312	2315	2319	2318	219
15°	2204	2250	2303	2288	2259	622
25°	2017	2088	2193	2154	2116	922
35°	1673	1580	1675	1655	1692	1050
45°	1271	1039	597	1009	1288	973
55°	643	643	222	670	783	583
65°	194	228	71	294	299	207
75°	30	35	10	60	58	43
85°	10	6	5	10	14	10
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°	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5
2.5°	2313.8	2316.3	2315.0	2315.0	2313.8	2315.0	2315.0	2317.5	2317.5	2315.0	2313.8
5°	2308.8	2311.3	2311.3	2308.8	2308.8	2315.0	2311.3	2313.8	2313.8	2312.5	2312.5
7.5°	2297.7	2297.7	2302.6	2298.9	2298.9	2302.6	2301.4	2303.9	2306.4	2307.6	2307.6
10°	2272.8	2275.3	2276.5	2276.5	2277.8	2281.5	2284.0	2289.0	2291.4	2294.0	2295.2
12.5°	2241.8	2245.5	2246.7	2245.5	2249.2	2254.2	2260.5	2266.6	2270.4	2275.3	2279.0
15°	2204.5	2204.5	2207.0	2210.7	2213.2	2220.8	2226.9	2234.4	2244.3	2250.5	2256.8
17.5°	2163.6	2166.1	2169.8	2169.8	2174.7	2187.2	2190.9	2202.1	2213.2	2219.5	2231.9
20°	2118.9	2121.4	2125.1	2127.6	2133.8	2143.8	2151.2	2161.1	2173.5	2184.8	2197.1
22.5°	2084.2	2079.2	2081.7	2084.2	2090.4	2099.0	2107.8	2120.2	2132.5	2143.8	2156.2
25°	2017.1	2018.4	2022.1	2024.6	2032.1	2039.5	2049.4	2064.3	2075.5	2087.9	2101.5
27.5°	1926.6	1927.8	1934.0	1934.0	1940.2	1952.6	1958.7	1971.2	1986.1	1998.4	2014.6
30°	1823.5	1826.0	1826.0	1830.9	1834.6	1840.8	1847.0	1859.5	1866.9	1878.1	1900.5
32.5°	1729.1	1731.6	1730.4	1729.1	1725.4	1724.2	1722.9	1725.4	1727.9	1731.6	1740.3
35°	1673.3	1667.0	1662.1	1653.4	1643.5	1631.1	1619.9	1605.0	1591.3	1580.2	1567.8
37.5°	1619.9	1618.6	1611.2	1598.9	1578.9	1556.7	1530.6	1498.3	1466.0	1431.2	1397.7
40°	1545.4	1541.7	1535.5	1518.1	1495.8	1468.5	1433.7	1394.0	1341.8	1288.5	1233.9
42.5°	1418.9	1420.1	1412.7	1398.9	1377.9	1351.8	1315.8	1272.4	1216.5	1153.1	1082.5
45°	1271.1	1271.1	1268.7	1257.4	1242.6	1221.4	1194.2	1158.2	1103.5	1038.9	963.2
47.5°	1117.1	1118.5	1114.6	1112.2	1106.0	1092.4	1072.5	1045.2	1006.8	944.7	869.0
50°	960.8	960.8	966.9	965.7	965.7	960.8	952.1	935.9	902.5	852.8	782.0
52.5°	804.4	806.8	810.6	815.5	821.7	831.7	821.7	814.3	793.2	754.6	693.9
55°	642.9	645.5	651.7	660.4	667.8	677.8	680.2	680.2	669.0	642.9	597.0
57.5°	505.2	501.5	506.5	513.9	523.8	533.8	541.2	549.9	548.7	531.3	494.1
60°	379.8	381.0	384.8	392.3	399.7	408.4	418.3	425.8	429.5	420.9	397.2
62.5°	276.9	276.9	281.8	289.2	293.0	305.3	311.5	315.3	319.0	317.8	302.8
65°	193.6	196.1	198.6	202.4	206.1	213.5	217.2	224.7	227.1	228.4	217.2
67.5°	136.6	132.9	135.3	137.8	141.5	146.5	153.9	153.9	157.6	157.6	150.2
70°	86.9	86.9	88.1	91.8	94.4	95.6	98.1	100.6	104.3	103.0	103.0
72.5°	58.4	57.2	58.4	59.6	60.9	64.6	64.6	65.8	68.3	69.5	64.6
75°	29.8	31.0	33.5	32.3	36.0	33.5	34.8	38.5	37.2	34.8	34.8
77.5°	24.9	24.9	24.9	23.6	26.1	26.1	24.9	27.3	26.1	26.1	24.9
80°	17.3	18.6	17.3	16.1	17.3	16.1	16.1	16.1	16.1	16.1	14.8
82.5°	13.6	11.1	12.4	11.1	12.4	12.4	11.1	9.9	9.9	11.1	9.9
85°	9.9	7.4	8.7	8.7	7.4	7.4	7.4	7.4	7.4	6.2	6.2
87.5°	6.2	3.7	3.7	3.7	5.0	5.0	5.0	3.7	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°	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5
2.5°	2316.3	2315.0	2317.5	2316.3	2316.3	2315.0	2316.3	2315.0	2317.5	2312.5	2313.8
5°	2316.3	2313.8	2315.0	2316.3	2317.5	2315.0	2315.0	2315.0	2317.5	2315.0	2316.3
7.5°	2311.3	2310.1	2313.8	2316.3	2315.0	2313.8	2316.3	2315.0	2317.5	2316.3	2318.7
10°	2301.4	2302.6	2305.1	2308.8	2310.1	2311.3	2313.8	2313.8	2317.5	2312.5	2315.0
12.5°	2286.5	2291.4	2297.7	2300.2	2305.1	2305.1	2307.6	2308.8	2311.3	2310.1	2313.8
15°	2267.9	2274.1	2281.5	2287.7	2294.0	2297.7	2301.4	2302.6	2306.4	2302.6	2303.9
17.5°	2245.5	2252.9	2264.2	2271.6	2281.5	2285.2	2290.2	2292.6	2296.5	2294.0	2295.2
20°	2214.5	2223.2	2235.6	2246.7	2252.9	2261.7	2267.9	2271.6	2274.1	2271.6	2272.8
22.5°	2171.0	2183.5	2199.6	2208.3	2220.8	2228.2	2229.4	2238.1	2244.3	2238.1	2240.5
25°	2120.2	2132.5	2145.0	2163.6	2174.7	2183.5	2192.2	2193.4	2199.6	2198.4	2197.1
27.5°	2035.7	2051.9	2072.9	2087.9	2102.7	2116.5	2126.4	2128.8	2135.0	2132.5	2133.8
30°	1920.3	1937.7	1957.6	1981.1	2002.3	2015.9	2028.3	2037.0	2043.2	2039.5	2038.3
32.5°	1756.5	1773.8	1794.9	1818.6	1843.3	1863.2	1878.1	1889.3	1896.8	1894.3	1888.1
35°	1569.0	1574.0	1587.6	1606.3	1627.3	1648.5	1662.1	1674.6	1683.2	1685.7	1685.7
37.5°	1376.7	1360.5	1350.6	1350.6	1362.9	1371.6	1384.1	1391.5	1405.1	1410.1	1413.9
40°	1190.4	1153.1	1118.5	1092.4	1074.9	1073.7	1073.7	1077.4	1089.9	1106.0	1121.0
42.5°	1024.1	964.5	911.1	862.8	828.0	808.1	799.4	800.7	810.6	825.5	850.3
45°	891.2	816.8	749.7	691.4	644.3	613.2	598.3	597.0	604.5	621.9	649.2
47.5°	788.3	708.8	633.0	566.0	515.1	481.6	464.3	459.3	464.3	480.4	512.7
50°	702.6	620.7	542.5	473.0	418.3	383.6	367.4	361.2	367.4	381.0	413.3
52.5°	623.1	538.8	465.5	398.5	340.1	310.3	293.0	289.2	293.0	309.0	335.1
55°	531.3	459.3	387.3	320.3	269.3	239.6	225.9	222.2	225.9	240.9	268.1
57.5°	440.7	378.6	315.3	254.5	211.0	185.0	172.6	167.5	176.3	186.2	218.5
60°	356.3	306.6	253.2	199.8	163.9	140.3	130.3	129.0	131.6	144.0	166.3
62.5°	279.3	238.4	196.1	152.7	122.8	113.0	100.6	99.3	101.8	109.2	126.7
65°	201.2	175.0	142.8	111.7	88.1	74.5	69.5	70.8	73.2	78.2	94.4
67.5°	140.3	121.6	99.3	78.2	60.9	54.6	49.6	48.4	49.6	58.4	67.0
70°	94.4	83.1	67.0	59.6	42.2	33.5	34.8	31.0	36.0	36.0	43.4
72.5°	62.1	54.6	44.7	34.8	29.8	23.6	23.6	22.4	24.9	26.1	32.3
75°	32.3	24.9	24.9	17.3	12.4	6.2	11.1	9.9	8.7	9.9	12.4
77.5°	22.4	18.6	17.3	13.6	12.4	9.9	9.9	9.9	9.9	11.1	12.4
80°	13.6	13.6	9.9	8.7	7.4	6.2	7.4	7.4	7.4	7.4	8.7
82.5°	8.7	7.4	7.4	6.2	6.2	5.0	5.0	5.0	5.0	5.0	7.4
85°	7.4	5.0	5.0	3.7	5.0	8.7	3.7	5.0	5.0	5.0	3.7
87.5°	2.5	3.7	3.7	3.7	2.5	1.2	2.5	3.7	3.7	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°	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5	2312.5
2.5°	2316.3	2317.5	2317.5	2316.3	2316.3	2313.8	2318.7	2315.0	2316.3	2321.2	2317.5
5°	2318.7	2320.0	2320.0	2318.7	2318.7	2318.7	2320.0	2320.0	2318.7	2317.5	2320.0
7.5°	2323.7	2322.5	2322.5	2320.0	2320.0	2317.5	2320.0	2316.3	2318.7	2316.3	2320.0
10°	2317.5	2318.7	2317.5	2316.3	2316.3	2315.0	2315.0	2311.3	2312.5	2308.8	2311.3
12.5°	2313.8	2312.5	2312.5	2310.1	2307.6	2305.1	2303.9	2300.2	2300.2	2291.4	2295.2
15°	2303.9	2305.1	2301.4	2296.5	2294.0	2287.7	2285.2	2280.3	2275.3	2269.1	2270.4
17.5°	2295.2	2291.4	2286.5	2281.5	2271.6	2266.6	2261.7	2254.2	2251.7	2244.3	2241.8
20°	2269.1	2266.6	2260.5	2251.7	2245.5	2234.4	2229.4	2222.0	2215.7	2208.3	2204.5
22.5°	2235.6	2233.1	2225.7	2216.9	2207.0	2202.1	2197.1	2183.5	2177.2	2169.8	2168.5
25°	2193.4	2189.7	2182.3	2172.3	2167.3	2153.7	2148.8	2138.7	2136.3	2128.8	2127.6
27.5°	2128.8	2123.9	2115.2	2102.7	2094.1	2085.4	2080.5	2072.9	2070.6	2063.0	2061.8
30°	2032.1	2025.8	2008.5	2003.5	1988.6	1979.9	1979.9	1970.0	1971.2	1966.3	1966.3
32.5°	1879.3	1869.4	1855.8	1845.8	1835.9	1830.9	1830.9	1827.2	1829.7	1829.7	1832.2
35°	1677.0	1663.3	1655.9	1649.7	1649.7	1654.6	1669.6	1673.3	1680.8	1686.9	1691.9
37.5°	1417.6	1416.4	1425.0	1432.5	1451.1	1472.2	1498.3	1520.7	1541.7	1556.7	1571.5
40°	1137.0	1168.1	1192.8	1227.7	1256.2	1297.1	1344.4	1382.9	1418.9	1445.0	1472.2
42.5°	887.5	927.2	979.4	1030.3	1081.2	1137.0	1199.1	1252.5	1299.6	1335.6	1364.2
45°	691.4	746.0	809.3	873.9	939.7	1009.2	1073.7	1128.4	1178.0	1215.2	1243.8
47.5°	557.3	616.9	688.9	759.7	834.2	907.4	979.4	1026.6	1067.5	1097.3	1123.4
50°	460.5	523.8	599.5	680.2	754.6	828.0	890.0	935.9	969.5	995.5	1011.7
52.5°	384.8	451.8	532.6	613.2	687.7	754.6	810.6	845.3	872.7	891.2	906.2
55°	317.8	382.4	458.1	533.8	607.1	670.3	716.2	742.3	763.4	774.6	783.2
57.5°	259.4	319.0	388.6	458.1	521.3	573.5	609.5	635.5	645.5	654.2	652.9
60°	203.6	259.4	322.8	382.4	437.0	479.1	505.2	520.1	527.5	531.3	528.8
62.5°	160.1	211.0	259.4	311.5	351.3	387.3	412.1	412.1	415.8	417.0	420.9
65°	119.1	157.6	199.8	238.4	270.6	294.2	307.9	311.5	316.6	315.3	312.9
67.5°	88.1	116.7	147.7	176.3	198.6	213.5	223.4	232.1	230.8	228.4	227.1
70°	60.9	79.4	106.8	124.1	140.3	155.1	157.6	158.8	160.1	161.3	158.8
72.5°	42.2	55.8	70.8	85.6	95.6	101.8	108.0	109.2	109.2	109.2	108.0
75°	21.2	28.6	42.2	48.4	57.2	59.6	64.6	64.6	68.3	63.3	62.1
77.5°	18.6	22.4	29.8	34.8	38.5	42.2	43.4	47.1	45.9	43.4	44.7
80°	11.1	13.6	18.6	21.2	26.1	27.3	28.6	29.8	28.6	29.8	29.8
82.5°	8.7	9.9	12.4	12.4	16.1	16.1	17.3	17.3	18.6	18.6	18.6
85°	5.0	8.7	7.4	14.8	9.9	9.9	12.4	14.8	12.4	12.4	14.8
87.5°	5.0	5.0	3.7	5.0	5.0	5.0	6.2	7.4	7.4	8.7	7.4
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: P249496

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2312.5	2312.5	2312.5	2312.5
2.5°	2316.3	2318.7	2315.0	2313.8
5°	2320.0	2320.0	2317.5	2317.5
7.5°	2320.0	2320.0	2316.3	2313.8
10°	2310.1	2310.1	2306.4	2303.9
12.5°	2291.4	2291.4	2290.2	2286.5
15°	2267.9	2267.9	2262.9	2259.2
17.5°	2235.6	2238.1	2231.9	2231.9
20°	2200.8	2199.6	2194.6	2192.2
22.5°	2164.8	2162.4	2161.1	2153.7
25°	2126.4	2123.9	2120.2	2116.5
27.5°	2060.5	2059.3	2055.6	2050.6
30°	1960.0	1958.7	1953.8	1953.8
32.5°	1829.7	1828.5	1823.5	1824.8
35°	1694.4	1699.3	1696.8	1691.9
37.5°	1581.4	1585.1	1587.6	1585.1
40°	1487.1	1498.3	1499.5	1502.0
42.5°	1386.6	1401.4	1406.4	1408.8
45°	1266.1	1279.8	1290.9	1288.5
47.5°	1143.2	1153.1	1163.1	1155.6
50°	1025.3	1031.5	1035.2	1035.2
52.5°	913.6	913.6	912.4	913.6
55°	785.7	785.7	780.8	783.2
57.5°	651.7	654.2	650.5	644.3
60°	527.5	521.3	518.8	515.1
62.5°	410.8	410.8	402.2	413.3
65°	307.9	304.1	300.4	299.1
67.5°	223.4	222.2	218.5	217.2
70°	157.6	152.7	151.4	149.0
72.5°	105.5	105.5	103.0	103.0
75°	64.6	58.4	57.2	58.4
77.5°	44.7	43.4	43.4	42.2
80°	29.8	28.6	31.0	27.3
82.5°	18.6	19.9	18.6	19.9
85°	12.4	14.8	13.6	13.6
87.5°	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)