

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: P249181

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249181
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 EC8B609730 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: 4658.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

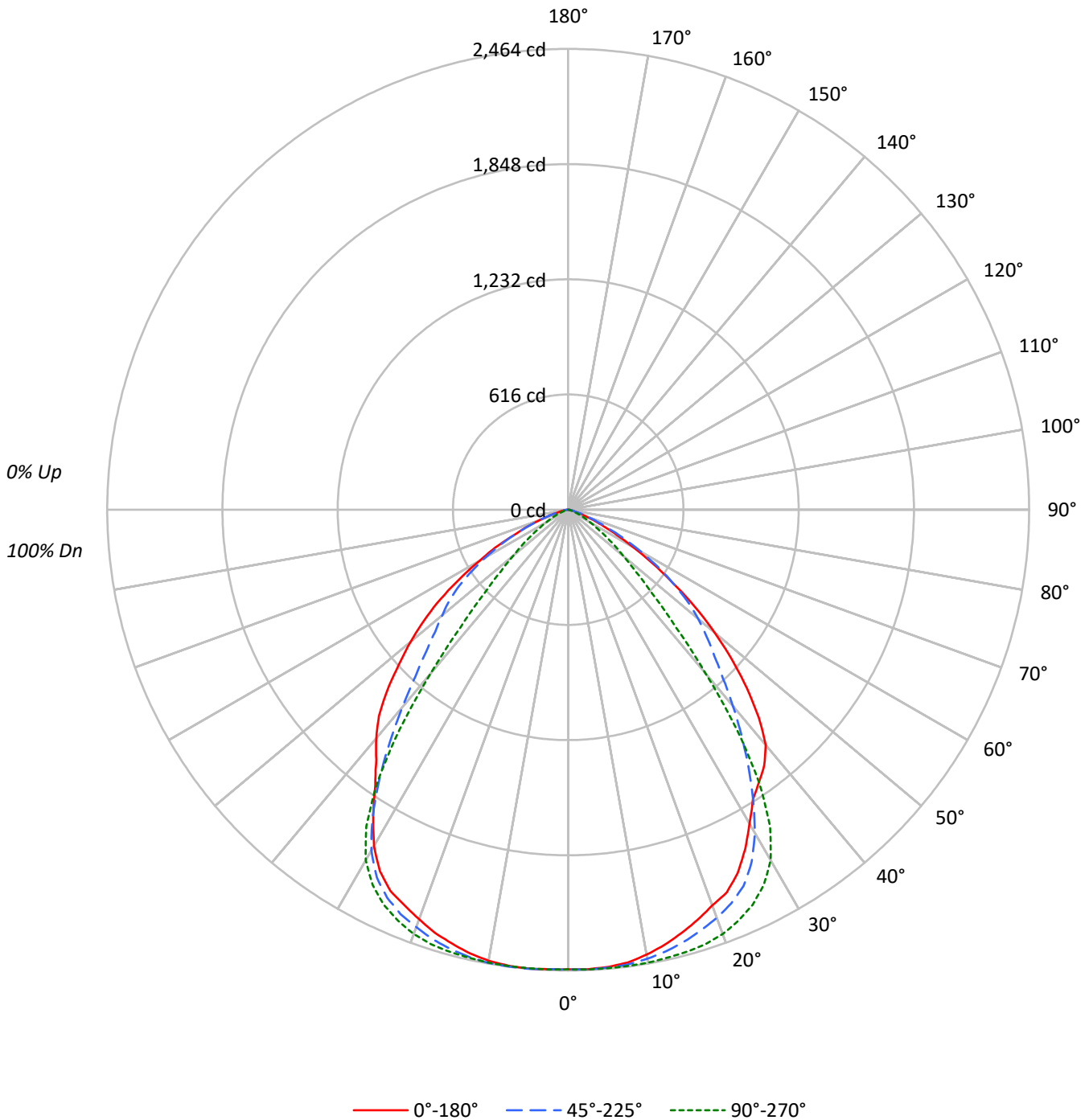
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

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°			



TEST NUMBER: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	5.0
10°-20°	681.2	14.6
20°-30°	1033.9	22.2
30°-40°	1085.9	23.3
40°-50°	814.1	17.5
50°-60°	522.4	11.2
60°-70°	223.5	4.8
70°-80°	52.8	1.1
80°-90°	9.8	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°	1949.6	41.9
0°-40°	3035.5	65.2
0°-60°	4371.9	93.9
0°-90°	4658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2458	2458	2458	2458	2458	
5°	2454	2458	2460	2464	2463	233
15°	2343	2392	2447	2431	2401	661
25°	2144	2219	2331	2289	2249	979
35°	1778	1679	1780	1758	1798	1116
45°	1351	1104	634	1072	1369	1035
55°	683	683	236	712	832	620
65°	206	243	75	313	318	220
75°	32	37	11	63	62	46
85°	11	7	5	11	14	11
90°	0	0	0	0	0	



TEST NUMBER: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7
2.5°	2459.0	2461.6	2460.3	2460.3	2459.0	2460.3	2460.3	2462.9	2462.9	2460.3	2459.0
5°	2453.7	2456.3	2456.3	2453.7	2453.7	2460.3	2456.3	2459.0	2459.0	2457.7	2457.7
7.5°	2441.8	2441.8	2447.1	2443.2	2443.2	2447.1	2445.8	2448.4	2451.1	2452.4	2452.4
10°	2415.4	2418.1	2419.4	2419.4	2420.7	2424.7	2427.3	2432.6	2435.2	2437.9	2439.2
12.5°	2382.5	2386.4	2387.7	2386.4	2390.4	2395.6	2402.3	2408.8	2412.8	2418.1	2422.0
15°	2342.9	2342.9	2345.5	2349.5	2352.1	2360.0	2366.6	2374.5	2385.1	2391.7	2398.3
17.5°	2299.4	2302.0	2305.9	2305.9	2311.2	2324.4	2328.4	2340.3	2352.1	2358.7	2371.9
20°	2251.9	2254.5	2258.5	2261.1	2267.7	2278.2	2286.2	2296.7	2309.9	2321.8	2335.0
22.5°	2214.9	2209.7	2212.3	2214.9	2221.5	2230.8	2240.0	2253.2	2266.4	2278.2	2291.4
25°	2143.7	2145.0	2149.0	2151.6	2159.5	2167.4	2178.0	2193.8	2205.7	2218.9	2233.4
27.5°	2047.4	2048.7	2055.3	2055.3	2061.9	2075.1	2081.7	2094.9	2110.7	2123.9	2141.1
30°	1937.9	1940.5	1940.5	1945.8	1949.8	1956.4	1963.0	1976.2	1984.1	1995.9	2019.7
32.5°	1837.6	1840.3	1838.9	1837.6	1833.7	1832.4	1831.0	1833.7	1836.3	1840.3	1849.5
35°	1778.3	1771.7	1766.4	1757.2	1746.6	1733.4	1721.5	1705.7	1691.2	1679.3	1666.2
37.5°	1721.5	1720.2	1712.3	1699.1	1678.0	1654.3	1626.6	1592.3	1558.0	1521.0	1485.4
40°	1642.4	1638.4	1631.8	1613.4	1589.6	1560.6	1523.7	1481.5	1426.0	1369.3	1311.3
42.5°	1507.8	1509.1	1501.2	1486.7	1464.3	1436.6	1398.3	1352.2	1292.8	1225.5	1150.3
45°	1350.9	1350.9	1348.2	1336.3	1320.5	1298.1	1269.1	1230.8	1172.8	1104.2	1023.7
47.5°	1187.3	1188.6	1184.6	1182.0	1175.4	1160.9	1139.8	1110.8	1069.9	1003.9	923.4
50°	1021.1	1021.1	1027.7	1026.3	1026.3	1021.1	1011.8	994.7	959.1	906.3	831.1
52.5°	854.8	857.5	861.4	866.7	873.3	883.9	873.3	865.4	843.0	802.1	737.4
55°	683.3	686.0	692.6	701.8	709.7	720.3	722.9	722.9	711.0	683.3	634.5
57.5°	536.9	533.0	538.2	546.2	556.7	567.3	575.2	584.4	583.1	564.6	525.0
60°	403.7	405.0	408.9	416.9	424.8	434.0	444.6	452.5	456.4	447.2	422.1
62.5°	294.2	294.2	299.4	307.4	311.3	324.5	331.1	335.1	339.0	337.7	321.9
65°	205.8	208.4	211.1	215.0	219.0	226.9	230.9	238.8	241.4	242.7	230.9
67.5°	145.1	141.2	143.8	146.4	150.4	155.7	163.6	163.6	167.5	167.5	159.6
70°	92.3	92.3	93.7	97.6	100.3	101.6	104.2	106.8	110.8	109.5	109.5
72.5°	62.0	60.7	62.0	63.3	64.7	68.6	68.6	69.9	72.6	73.9	68.6
75°	31.7	33.0	35.6	34.3	38.3	35.6	36.9	40.9	39.6	36.9	36.9
77.5°	26.4	26.4	26.4	25.1	27.7	27.7	26.4	29.0	27.7	27.7	26.4
80°	18.5	19.8	18.5	17.1	18.5	17.1	17.1	17.1	17.1	17.1	15.8
82.5°	14.5	11.9	13.2	11.9	13.2	13.2	11.9	10.6	10.6	11.9	10.6
85°	10.6	7.9	9.2	9.2	7.9	7.9	7.9	7.9	7.9	6.6	6.6
87.5°	6.6	4.0	4.0	4.0	5.3	5.3	5.3	4.0	5.3	5.3	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



TEST NUMBER: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7
2.5°	2461.6	2460.3	2462.9	2461.6	2461.6	2460.3	2461.6	2460.3	2462.9	2457.7	2459.0
5°	2461.6	2459.0	2460.3	2461.6	2462.9	2460.3	2460.3	2460.3	2462.9	2460.3	2461.6
7.5°	2456.3	2455.0	2459.0	2461.6	2460.3	2459.0	2461.6	2460.3	2462.9	2461.6	2464.2
10°	2445.8	2447.1	2449.7	2453.7	2455.0	2456.3	2459.0	2459.0	2462.9	2457.7	2460.3
12.5°	2430.0	2435.2	2441.8	2444.5	2449.7	2449.7	2452.4	2453.7	2456.3	2455.0	2459.0
15°	2410.2	2416.8	2424.7	2431.3	2437.9	2441.8	2445.8	2447.1	2451.1	2447.1	2448.4
17.5°	2386.4	2394.3	2406.2	2414.1	2424.7	2428.6	2433.9	2436.5	2440.5	2437.9	2439.2
20°	2353.4	2362.7	2375.9	2387.7	2394.3	2403.6	2410.2	2414.1	2416.8	2414.1	2415.4
22.5°	2307.3	2320.5	2337.6	2346.8	2360.0	2368.0	2369.3	2378.5	2385.1	2378.5	2381.2
25°	2253.2	2266.4	2279.6	2299.4	2311.2	2320.5	2329.7	2331.0	2337.6	2336.3	2335.0
27.5°	2163.5	2180.6	2203.0	2218.9	2234.7	2249.2	2259.8	2262.4	2269.0	2266.4	2267.7
30°	2040.8	2059.3	2080.4	2105.4	2127.9	2142.4	2155.6	2164.8	2171.4	2167.4	2166.1
32.5°	1866.7	1885.1	1907.6	1932.6	1959.0	1980.1	1995.9	2007.8	2015.7	2013.1	2006.5
35°	1667.5	1672.7	1687.3	1707.0	1729.5	1751.9	1766.4	1779.6	1788.8	1791.5	1791.5
37.5°	1463.0	1445.8	1435.3	1435.3	1448.5	1457.7	1470.9	1478.8	1493.3	1498.6	1502.6
40°	1265.1	1225.5	1188.6	1160.9	1142.4	1141.1	1141.1	1145.0	1158.2	1175.4	1191.2
42.5°	1088.3	1025.0	968.3	916.8	879.9	858.8	849.6	850.9	861.4	877.3	903.6
45°	947.2	868.0	796.8	734.8	684.7	651.7	635.9	634.5	642.4	660.9	690.0
47.5°	837.7	753.3	672.8	601.5	547.5	511.8	493.4	488.1	493.4	510.5	544.8
50°	746.7	659.6	576.5	502.6	444.6	407.6	390.5	383.9	390.5	405.0	439.3
52.5°	662.2	572.5	494.7	423.5	361.5	329.8	311.3	307.4	311.3	328.5	356.2
55°	564.6	488.1	411.6	340.3	286.3	254.6	240.1	236.1	240.1	255.9	285.0
57.5°	468.3	402.4	335.1	270.4	224.3	196.5	183.4	178.1	187.3	197.9	232.2
60°	378.6	325.9	269.1	212.4	174.1	149.1	138.5	137.2	139.8	153.0	176.8
62.5°	296.8	253.3	208.4	162.3	130.6	120.0	106.8	105.5	108.2	116.1	134.6
65°	213.7	186.0	151.7	118.7	93.7	79.1	73.9	75.2	77.8	83.1	100.3
67.5°	149.1	129.3	105.5	83.1	64.7	58.0	52.8	51.5	52.8	62.0	71.2
70°	100.3	88.4	71.2	63.3	44.9	35.6	36.9	33.0	38.3	38.3	46.2
72.5°	65.9	58.0	47.5	36.9	31.7	25.1	25.1	23.8	26.4	27.7	34.3
75°	34.3	26.4	26.4	18.5	13.2	6.6	11.9	10.6	9.2	10.6	13.2
77.5°	23.8	19.8	18.5	14.5	13.2	10.6	10.6	10.6	10.6	11.9	13.2
80°	14.5	14.5	10.6	9.2	7.9	6.6	7.9	7.9	7.9	7.9	9.2
82.5°	9.2	7.9	7.9	6.6	6.6	5.3	5.3	5.3	5.3	5.3	7.9
85°	7.9	5.3	5.3	4.0	5.3	9.2	4.0	5.3	5.3	5.3	4.0
87.5°	2.6	4.0	4.0	4.0	2.6	1.3	2.6	4.0	4.0	6.6	5.3
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: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7	2457.7
2.5°	2461.6	2462.9	2462.9	2461.6	2461.6	2459.0	2464.2	2460.3	2461.6	2466.9	2462.9
5°	2464.2	2465.6	2465.6	2464.2	2464.2	2464.2	2465.6	2465.6	2464.2	2462.9	2465.6
7.5°	2469.5	2468.2	2468.2	2465.6	2465.6	2462.9	2465.6	2461.6	2464.2	2461.6	2465.6
10°	2462.9	2464.2	2462.9	2461.6	2461.6	2460.3	2460.3	2456.3	2457.7	2453.7	2456.3
12.5°	2459.0	2457.7	2457.7	2455.0	2452.4	2449.7	2448.4	2444.5	2444.5	2435.2	2439.2
15°	2448.4	2449.7	2445.8	2440.5	2437.9	2431.3	2428.6	2423.3	2418.1	2411.5	2412.8
17.5°	2439.2	2435.2	2430.0	2424.7	2414.1	2408.8	2403.6	2395.6	2393.0	2385.1	2382.5
20°	2411.5	2408.8	2402.3	2393.0	2386.4	2374.5	2369.3	2361.4	2354.7	2346.8	2342.9
22.5°	2375.9	2373.2	2365.3	2356.1	2345.5	2340.3	2335.0	2320.5	2313.9	2305.9	2304.6
25°	2331.0	2327.1	2319.1	2308.6	2303.3	2288.8	2283.5	2273.0	2270.3	2262.4	2261.1
27.5°	2262.4	2257.1	2247.9	2234.7	2225.5	2216.2	2211.0	2203.0	2200.4	2192.5	2191.2
30°	2159.5	2152.9	2134.4	2129.2	2113.3	2104.1	2104.1	2093.6	2094.9	2089.6	2089.6
32.5°	1997.3	1986.7	1972.2	1961.6	1951.1	1945.8	1945.8	1941.8	1944.5	1944.5	1947.1
35°	1782.2	1767.7	1759.8	1753.2	1753.2	1758.5	1774.3	1778.3	1786.2	1792.8	1798.1
37.5°	1506.5	1505.2	1514.4	1522.4	1542.1	1564.6	1592.3	1616.0	1638.4	1654.3	1670.1
40°	1208.4	1241.4	1267.7	1304.7	1335.0	1378.6	1428.7	1469.6	1507.8	1535.6	1564.6
42.5°	943.2	985.4	1040.9	1094.9	1149.0	1208.4	1274.4	1331.1	1381.2	1419.4	1449.8
45°	734.8	792.8	860.1	928.7	998.6	1072.5	1141.1	1199.1	1251.9	1291.5	1321.8
47.5°	592.3	655.6	732.1	807.3	886.5	964.3	1040.9	1091.0	1134.5	1166.2	1193.9
50°	489.4	556.7	637.2	722.9	802.1	879.9	945.9	994.7	1030.3	1058.0	1075.1
52.5°	408.9	480.2	565.9	651.7	730.8	802.1	861.4	898.4	927.4	947.2	963.0
55°	337.7	406.3	486.8	567.3	645.1	712.4	761.2	788.9	811.3	823.2	832.4
57.5°	275.7	339.0	412.9	486.8	554.1	609.5	647.7	675.4	686.0	695.2	693.9
60°	216.4	275.7	343.0	406.3	464.4	509.2	536.9	552.7	560.6	564.6	562.0
62.5°	170.2	224.3	275.7	331.1	373.3	411.6	438.0	438.0	441.9	443.2	447.2
65°	126.6	167.5	212.4	253.3	287.6	312.6	327.2	331.1	336.4	335.1	332.4
67.5°	93.7	124.0	157.0	187.3	211.1	226.9	237.4	246.7	245.4	242.7	241.4
70°	64.7	84.4	113.5	131.9	149.1	164.9	167.5	168.8	170.2	171.5	168.8
72.5°	44.9	59.4	75.2	91.0	101.6	108.2	114.8	116.1	116.1	116.1	114.8
75°	22.4	30.3	44.9	51.5	60.7	63.3	68.6	68.6	72.6	67.3	65.9
77.5°	19.8	23.8	31.7	36.9	40.9	44.9	46.2	50.1	48.8	46.2	47.5
80°	11.9	14.5	19.8	22.4	27.7	29.0	30.3	31.7	30.3	31.7	31.7
82.5°	9.2	10.6	13.2	13.2	17.1	17.1	18.5	18.5	19.8	19.8	19.8
85°	5.3	9.2	7.9	15.8	10.6	10.6	13.2	15.8	13.2	13.2	15.8
87.5°	5.3	5.3	4.0	5.3	5.3	5.3	6.6	7.9	7.9	9.2	7.9
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: P249181

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2457.7	2457.7	2457.7	2457.7
2.5°	2461.6	2464.2	2460.3	2459.0
5°	2465.6	2465.6	2462.9	2462.9
7.5°	2465.6	2465.6	2461.6	2459.0
10°	2455.0	2455.0	2451.1	2448.4
12.5°	2435.2	2435.2	2433.9	2430.0
15°	2410.2	2410.2	2404.9	2400.9
17.5°	2375.9	2378.5	2371.9	2371.9
20°	2338.9	2337.6	2332.3	2329.7
22.5°	2300.7	2298.0	2296.7	2288.8
25°	2259.8	2257.1	2253.2	2249.2
27.5°	2189.9	2188.5	2184.6	2179.3
30°	2083.0	2081.7	2076.4	2076.4
32.5°	1944.5	1943.2	1937.9	1939.2
35°	1800.7	1806.0	1803.3	1798.1
37.5°	1680.6	1684.6	1687.3	1684.6
40°	1580.4	1592.3	1593.6	1596.2
42.5°	1473.5	1489.4	1494.7	1497.3
45°	1345.6	1360.1	1372.0	1369.3
47.5°	1215.0	1225.5	1236.1	1228.2
50°	1089.7	1096.2	1100.2	1100.2
52.5°	970.9	970.9	969.6	970.9
55°	835.0	835.0	829.8	832.4
57.5°	692.6	695.2	691.2	684.7
60°	560.6	554.1	551.4	547.5
62.5°	436.7	436.7	427.4	439.3
65°	327.2	323.2	319.2	317.9
67.5°	237.4	236.1	232.2	230.9
70°	167.5	162.3	160.9	158.3
72.5°	112.1	112.1	109.5	109.5
75°	68.6	62.0	60.7	62.0
77.5°	47.5	46.2	46.2	44.9
80°	31.7	30.3	33.0	29.0
82.5°	19.8	21.1	19.8	21.1
85°	13.2	15.8	14.5	14.5
87.5°	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)