

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: P249613

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249613
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4606.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

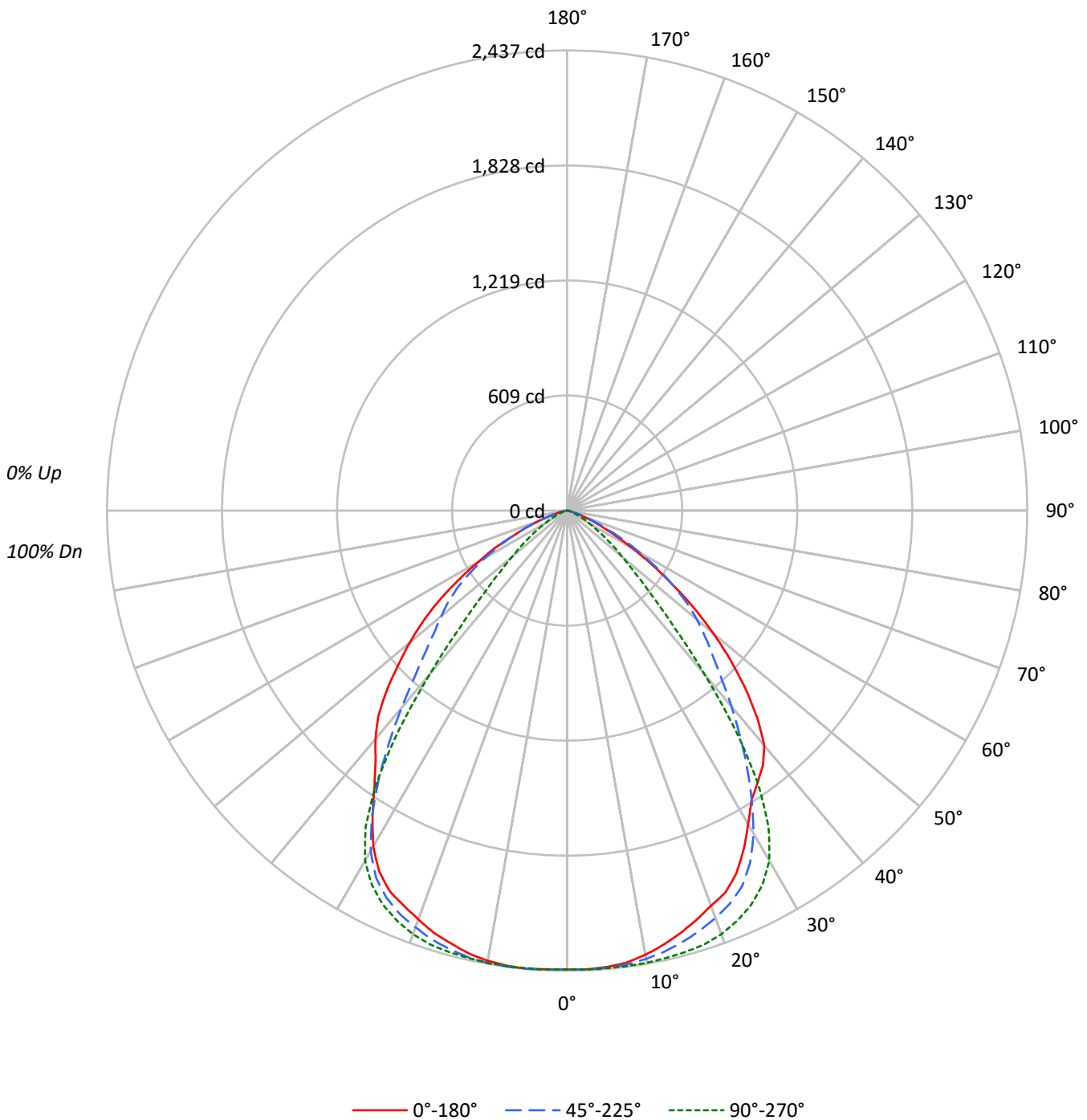
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	231.9	5.0
10°-20°	673.6	14.6
20°-30°	1022.3	22.2
30°-40°	1073.8	23.3
40°-50°	805.0	17.5
50°-60°	516.5	11.2
60°-70°	221.0	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°	1927.8	41.9
0°-40°	3001.6	65.2
0°-60°	4323.1	93.9
0°-90°	4606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2430	2430	2430	2430	2430	
5°	2426	2430	2433	2437	2436	230
15°	2317	2365	2420	2404	2374	653
25°	2120	2194	2305	2263	2224	968
35°	1758	1661	1760	1739	1778	1104
45°	1336	1092	627	1060	1354	1023
55°	676	676	234	704	823	613
65°	204	240	74	309	314	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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2431.5	2434.1	2432.8	2432.8	2431.5	2432.8	2432.8	2435.5	2435.5	2432.8	2431.5
5°	2426.3	2428.9	2428.9	2426.3	2426.3	2432.8	2428.9	2431.5	2431.5	2430.2	2430.2
7.5°	2414.6	2414.6	2419.8	2415.9	2415.9	2419.8	2418.5	2421.1	2423.7	2425.0	2425.0
10°	2388.5	2391.1	2392.4	2392.4	2393.7	2397.6	2400.2	2405.4	2408.0	2410.7	2412.0
12.5°	2355.9	2359.8	2361.1	2359.8	2363.7	2368.9	2375.4	2382.0	2385.9	2391.1	2395.0
15°	2316.7	2316.7	2319.3	2323.3	2325.9	2333.7	2340.2	2348.0	2358.5	2365.0	2371.5
17.5°	2273.7	2276.3	2280.2	2280.2	2285.4	2298.5	2302.4	2314.1	2325.9	2332.4	2345.4
20°	2226.7	2229.3	2233.2	2235.9	2242.4	2252.8	2260.6	2271.1	2284.1	2295.9	2308.9
22.5°	2190.2	2185.0	2187.6	2190.2	2196.7	2205.9	2215.0	2228.0	2241.1	2252.8	2265.9
25°	2119.7	2121.1	2125.0	2127.6	2135.4	2143.2	2153.7	2169.3	2181.1	2194.1	2208.4
27.5°	2024.5	2025.8	2032.4	2032.4	2038.9	2051.9	2058.4	2071.5	2087.2	2100.2	2117.2
30°	1916.3	1918.9	1918.9	1924.1	1928.0	1934.5	1941.0	1954.1	1961.9	1973.7	1997.1
32.5°	1817.1	1819.7	1818.4	1817.1	1813.2	1811.9	1810.6	1813.2	1815.8	1819.7	1828.8
35°	1758.4	1751.9	1746.7	1737.6	1727.1	1714.1	1702.3	1686.7	1672.3	1660.6	1647.6
37.5°	1702.3	1701.0	1693.2	1680.1	1659.3	1635.8	1608.4	1574.5	1540.6	1504.0	1468.8
40°	1624.1	1620.1	1613.6	1595.4	1571.9	1543.2	1506.7	1464.9	1410.1	1354.0	1296.6
42.5°	1491.0	1492.3	1484.5	1470.1	1448.0	1420.5	1382.7	1337.1	1278.4	1211.8	1137.5
45°	1335.8	1335.8	1333.2	1321.4	1305.8	1283.6	1254.9	1217.1	1159.7	1091.8	1012.3
47.5°	1174.0	1175.3	1171.4	1168.8	1162.3	1147.9	1127.1	1098.4	1057.9	992.7	913.1
50°	1009.7	1009.7	1016.2	1014.9	1014.9	1009.7	1000.5	983.6	948.4	896.2	821.8
52.5°	845.3	847.9	851.8	857.0	863.5	874.0	863.5	855.7	833.5	793.1	729.2
55°	675.7	678.3	684.8	694.0	701.8	712.3	714.8	714.8	703.1	675.7	627.4
57.5°	530.9	527.0	532.2	540.1	550.5	560.9	568.7	577.9	576.6	558.3	519.2
60°	399.2	400.5	404.4	412.2	420.0	429.2	439.6	447.4	451.4	442.2	417.4
62.5°	290.9	290.9	296.1	303.9	307.9	320.9	327.4	331.3	335.2	333.9	318.3
65°	203.5	206.1	208.7	212.6	216.5	224.4	228.3	236.1	238.7	240.0	228.3
67.5°	143.5	139.6	142.2	144.8	148.7	153.9	161.8	161.8	165.7	165.7	157.8
70°	91.3	91.3	92.6	96.5	99.1	100.4	103.1	105.6	109.6	108.3	108.3
72.5°	61.3	60.0	61.3	62.6	63.9	67.8	67.8	69.1	71.8	73.1	67.8
75°	31.3	32.6	35.2	33.9	37.8	35.2	36.5	40.4	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	15.6
82.5°	14.4	11.7	13.1	11.7	13.1	13.1	11.7	10.4	10.4	11.7	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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2434.1	2432.8	2435.5	2434.1	2434.1	2432.8	2434.1	2432.8	2435.5	2430.2	2431.5
5°	2434.1	2431.5	2432.8	2434.1	2435.5	2432.8	2432.8	2432.8	2435.5	2432.8	2434.1
7.5°	2428.9	2427.6	2431.5	2434.1	2432.8	2431.5	2434.1	2432.8	2435.5	2434.1	2436.7
10°	2418.5	2419.8	2422.4	2426.3	2427.6	2428.9	2431.5	2431.5	2435.5	2430.2	2432.8
12.5°	2402.8	2408.0	2414.6	2417.2	2422.4	2422.4	2425.0	2426.3	2428.9	2427.6	2431.5
15°	2383.3	2389.8	2397.6	2404.1	2410.7	2414.6	2418.5	2419.8	2423.7	2419.8	2421.1
17.5°	2359.8	2367.6	2379.3	2387.2	2397.6	2401.5	2406.7	2409.3	2413.3	2410.7	2412.0
20°	2327.2	2336.3	2349.3	2361.1	2367.6	2376.7	2383.3	2387.2	2389.8	2387.2	2388.5
22.5°	2281.5	2294.6	2311.5	2320.6	2333.7	2341.5	2342.8	2352.0	2358.5	2352.0	2354.6
25°	2228.0	2241.1	2254.1	2273.7	2285.4	2294.6	2303.7	2305.0	2311.5	2310.2	2308.9
27.5°	2139.3	2156.3	2178.4	2194.1	2209.8	2224.1	2234.6	2237.1	2243.7	2241.1	2242.4
30°	2018.0	2036.3	2057.2	2081.9	2104.1	2118.4	2131.5	2140.6	2147.1	2143.2	2141.9
32.5°	1845.8	1864.1	1886.3	1911.0	1937.1	1958.0	1973.7	1985.4	1993.2	1990.6	1984.1
35°	1648.9	1654.1	1668.4	1688.0	1710.1	1732.3	1746.7	1759.7	1768.8	1771.5	1771.5
37.5°	1446.7	1429.7	1419.3	1419.3	1432.3	1441.4	1454.5	1462.3	1476.7	1481.9	1485.8
40°	1251.0	1211.8	1175.3	1147.9	1129.7	1128.4	1128.4	1132.3	1145.3	1162.3	1177.9
42.5°	1076.2	1013.6	957.5	906.6	870.1	849.2	840.1	841.4	851.8	867.5	893.5
45°	936.6	858.3	787.9	726.6	677.0	644.4	628.8	627.4	635.3	653.5	682.2
47.5°	828.3	744.8	665.3	594.8	541.4	506.1	487.9	482.7	487.9	504.8	538.7
50°	738.3	652.2	570.1	497.0	439.6	403.1	386.1	379.6	386.1	400.5	434.4
52.5°	654.8	566.1	489.2	418.7	357.4	326.1	307.9	303.9	307.9	324.8	352.2
55°	558.3	482.7	407.0	336.5	283.1	251.8	237.4	233.5	237.4	253.1	281.8
57.5°	463.1	397.9	331.3	267.4	221.8	194.4	181.3	176.1	185.2	195.7	229.6
60°	374.4	322.2	266.1	210.0	172.2	147.4	137.0	135.7	138.3	151.3	174.8
62.5°	293.5	250.5	206.1	160.5	129.1	118.7	105.6	104.4	107.0	114.8	133.1
65°	211.3	183.9	150.0	117.4	92.6	78.3	73.1	74.4	77.0	82.2	99.1
67.5°	147.4	127.8	104.4	82.2	63.9	57.4	52.2	50.9	52.2	61.3	70.4
70°	99.1	87.4	70.4	62.6	44.4	35.2	36.5	32.6	37.8	37.8	45.6
72.5°	65.2	57.4	47.0	36.5	31.3	24.8	24.8	23.5	26.1	27.4	33.9
75°	33.9	26.1	26.1	18.3	13.1	6.5	11.7	10.4	9.1	10.4	13.1
77.5°	23.5	19.6	18.3	14.4	13.1	10.4	10.4	10.4	10.4	11.7	13.1
80°	14.4	14.4	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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2434.1	2435.5	2435.5	2434.1	2434.1	2431.5	2436.7	2432.8	2434.1	2439.3	2435.5
5°	2436.7	2438.0	2438.0	2436.7	2436.7	2436.7	2438.0	2438.0	2436.7	2435.5	2438.0
7.5°	2442.0	2440.7	2440.7	2438.0	2438.0	2435.5	2438.0	2434.1	2436.7	2434.1	2438.0
10°	2435.5	2436.7	2435.5	2434.1	2434.1	2432.8	2432.8	2428.9	2430.2	2426.3	2428.9
12.5°	2431.5	2430.2	2430.2	2427.6	2425.0	2422.4	2421.1	2417.2	2417.2	2408.0	2412.0
15°	2421.1	2422.4	2418.5	2413.3	2410.7	2404.1	2401.5	2396.3	2391.1	2384.6	2385.9
17.5°	2412.0	2408.0	2402.8	2397.6	2387.2	2382.0	2376.7	2368.9	2366.3	2358.5	2355.9
20°	2384.6	2382.0	2375.4	2366.3	2359.8	2348.0	2342.8	2335.0	2328.5	2320.6	2316.7
22.5°	2349.3	2346.7	2338.9	2329.8	2319.3	2314.1	2308.9	2294.6	2288.0	2280.2	2278.9
25°	2305.0	2301.1	2293.3	2282.8	2277.6	2263.3	2258.0	2247.6	2245.0	2237.1	2235.9
27.5°	2237.1	2231.9	2222.8	2209.8	2200.6	2191.5	2186.3	2178.4	2175.9	2168.0	2166.7
30°	2135.4	2128.9	2110.6	2105.4	2089.7	2080.6	2080.6	2070.2	2071.5	2066.3	2066.3
32.5°	1975.0	1964.5	1950.2	1939.7	1929.3	1924.1	1924.1	1920.2	1922.8	1922.8	1925.4
35°	1762.3	1748.0	1740.1	1733.6	1733.6	1738.8	1754.5	1758.4	1766.3	1772.8	1778.0
37.5°	1489.7	1488.4	1497.5	1505.4	1524.9	1547.1	1574.5	1598.0	1620.1	1635.8	1651.4
40°	1194.9	1227.5	1253.6	1290.1	1320.1	1363.2	1412.7	1453.2	1491.0	1518.4	1547.1
42.5°	932.7	974.4	1029.2	1082.7	1136.2	1194.9	1260.1	1316.2	1365.8	1403.6	1433.6
45°	726.6	784.0	850.5	918.3	987.5	1060.5	1128.4	1185.8	1237.9	1277.1	1307.1
47.5°	585.7	648.3	724.0	798.3	876.6	953.6	1029.2	1078.8	1121.8	1153.1	1180.6
50°	483.9	550.5	630.1	714.8	793.1	870.1	935.3	983.6	1018.8	1046.2	1063.1
52.5°	404.4	474.8	559.6	644.4	722.7	793.1	851.8	888.3	917.0	936.6	952.2
55°	333.9	401.8	481.4	560.9	637.9	704.4	752.7	780.1	802.2	814.0	823.1
57.5°	272.6	335.2	408.3	481.4	547.9	602.7	640.5	667.9	678.3	687.5	686.1
60°	213.9	272.6	339.2	401.8	459.2	503.5	530.9	546.6	554.4	558.3	555.7
62.5°	168.3	221.8	272.6	327.4	369.2	407.0	433.1	433.1	437.0	438.3	442.2
65°	125.2	165.7	210.0	250.5	284.4	309.2	323.5	327.4	332.7	331.3	328.7
67.5°	92.6	122.6	155.2	185.2	208.7	224.4	234.8	243.9	242.6	240.0	238.7
70°	63.9	83.5	112.2	130.4	147.4	163.1	165.7	167.0	168.3	169.6	167.0
72.5°	44.4	58.7	74.4	90.0	100.4	107.0	113.5	114.8	114.8	114.8	113.5
75°	22.2	30.0	44.4	50.9	60.0	62.6	67.8	67.8	71.8	66.5	65.2
77.5°	19.6	23.5	31.3	36.5	40.4	44.4	45.6	49.6	48.3	45.6	47.0
80°	11.7	14.4	19.6	22.2	27.4	28.7	30.0	31.3	30.0	31.3	31.3
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	15.6	10.4	10.4	13.1	15.6	13.1	13.1	15.6
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: P249613

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2430.2	2430.2	2430.2	2430.2
2.5°	2434.1	2436.7	2432.8	2431.5
5°	2438.0	2438.0	2435.5	2435.5
7.5°	2438.0	2438.0	2434.1	2431.5
10°	2427.6	2427.6	2423.7	2421.1
12.5°	2408.0	2408.0	2406.7	2402.8
15°	2383.3	2383.3	2378.0	2374.1
17.5°	2349.3	2352.0	2345.4	2345.4
20°	2312.8	2311.5	2306.3	2303.7
22.5°	2275.0	2272.4	2271.1	2263.3
25°	2234.6	2231.9	2228.0	2224.1
27.5°	2165.4	2164.1	2160.2	2155.0
30°	2059.7	2058.4	2053.2	2053.2
32.5°	1922.8	1921.5	1916.3	1917.6
35°	1780.6	1785.8	1783.2	1778.0
37.5°	1661.9	1665.8	1668.4	1665.8
40°	1562.7	1574.5	1575.8	1578.4
42.5°	1457.1	1472.7	1478.0	1480.6
45°	1330.5	1344.9	1356.6	1354.0
47.5°	1201.4	1211.8	1222.3	1214.5
50°	1077.5	1084.0	1087.9	1087.9
52.5°	960.1	960.1	958.8	960.1
55°	825.7	825.7	820.5	823.1
57.5°	684.8	687.5	683.5	677.0
60°	554.4	547.9	545.3	541.4
62.5°	431.8	431.8	422.7	434.4
65°	323.5	319.6	315.7	314.4
67.5°	234.8	233.5	229.6	228.3
70°	165.7	160.5	159.1	156.5
72.5°	110.9	110.9	108.3	108.3
75°	67.8	61.3	60.0	61.3
77.5°	47.0	45.6	45.6	44.4
80°	31.3	30.0	32.6	28.7
82.5°	19.6	20.9	19.6	20.9
85°	13.1	15.6	14.4	14.4
87.5°	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)