

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: P249604

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249604
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.1 lumens
Efficiency: N/A
Efficacy: 82.3 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

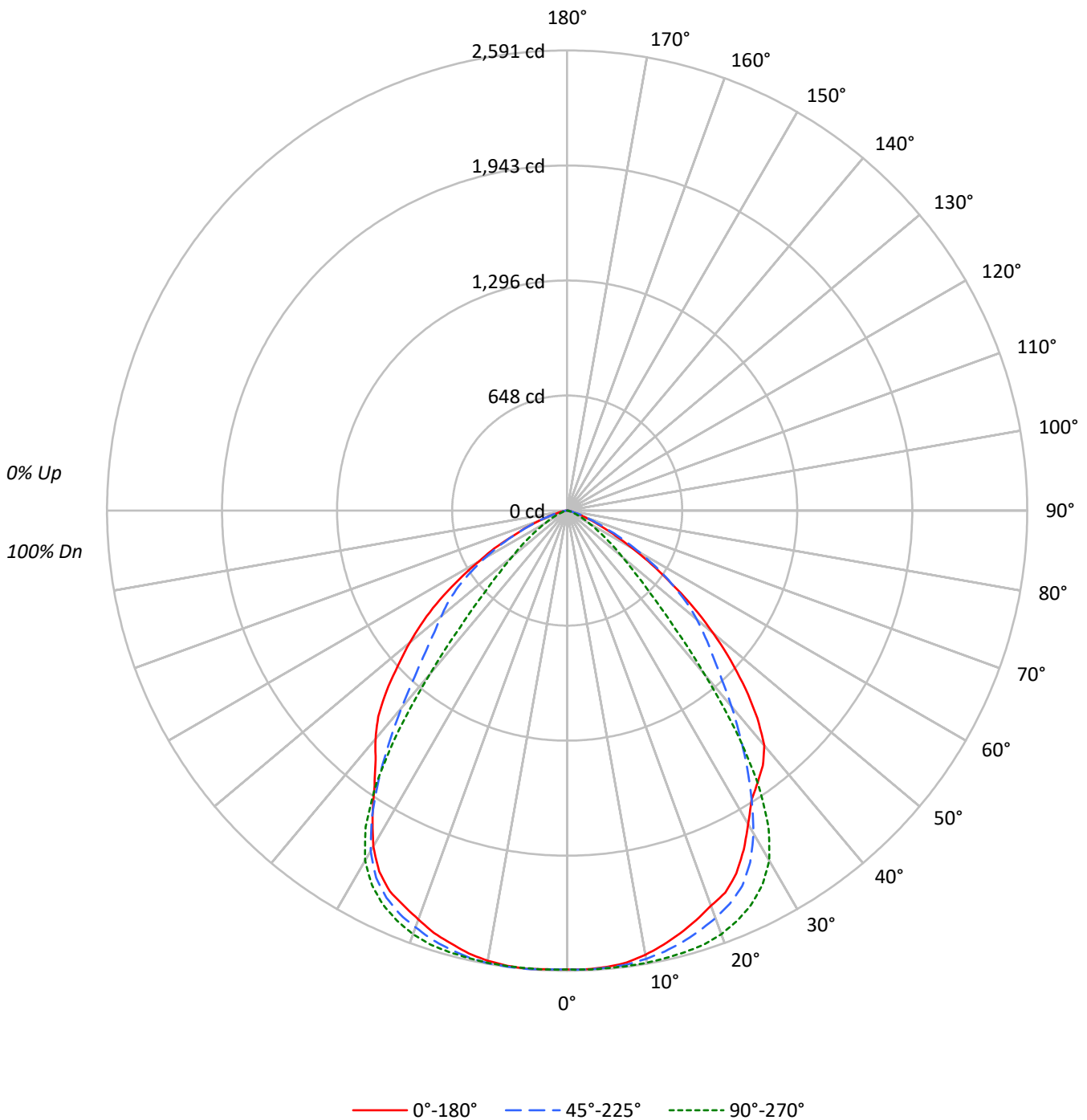
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	246.6	5.0
10°-20°	716.1	14.6
20°-30°	1087.0	22.2
30°-40°	1141.6	23.3
40°-50°	855.9	17.5
50°-60°	549.2	11.2
60°-70°	234.9	4.8
70°-80°	55.5	1.1
80°-90°	10.3	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°	2049.7	41.9
0°-40°	3191.3	65.2
0°-60°	4596.4	93.9
0°-90°	4897.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2584	2584	2584	2584	2584	
5°	2580	2584	2587	2591	2589	245
15°	2463	2514	2573	2556	2524	695
25°	2254	2333	2451	2406	2365	1030
35°	1870	1766	1871	1849	1890	1173
45°	1420	1161	667	1128	1440	1088
55°	718	718	248	749	875	652
65°	216	255	79	329	334	231
75°	33	39	11	67	65	48
85°	11	7	6	11	15	12
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°	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8
2.5°	2585.2	2588.0	2586.6	2586.6	2585.2	2586.6	2586.6	2589.4	2589.4	2586.6	2585.2
5°	2579.6	2582.4	2582.4	2579.6	2579.6	2586.6	2582.4	2585.2	2585.2	2583.8	2583.8
7.5°	2567.1	2567.1	2572.8	2568.6	2568.6	2572.8	2571.3	2574.1	2576.9	2578.3	2578.3
10°	2539.5	2542.2	2543.6	2543.6	2545.0	2549.1	2552.0	2557.5	2560.3	2563.0	2564.4
12.5°	2504.8	2509.0	2510.3	2509.0	2513.1	2518.6	2525.6	2532.5	2536.6	2542.2	2546.4
15°	2463.2	2463.2	2465.9	2470.0	2472.9	2481.2	2488.2	2496.5	2507.5	2514.5	2521.5
17.5°	2417.4	2420.2	2424.4	2424.4	2429.9	2443.7	2447.9	2460.4	2472.9	2479.8	2493.7
20°	2367.5	2370.3	2374.4	2377.2	2384.1	2395.2	2403.6	2414.6	2428.5	2441.0	2454.9
22.5°	2328.6	2323.1	2325.8	2328.6	2335.6	2345.3	2355.0	2368.8	2382.8	2395.2	2409.1
25°	2253.7	2255.2	2259.3	2262.0	2270.4	2278.7	2289.8	2306.5	2319.0	2332.8	2348.0
27.5°	2152.5	2153.9	2160.8	2160.8	2167.8	2181.6	2188.6	2202.4	2219.1	2232.9	2251.0
30°	2037.4	2040.2	2040.2	2045.7	2049.9	2056.8	2063.7	2077.6	2085.9	2098.4	2123.3
32.5°	1932.0	1934.8	1933.3	1932.0	1927.8	1926.4	1925.0	1927.8	1930.6	1934.8	1944.4
35°	1869.5	1862.7	1857.0	1847.4	1836.3	1822.4	1809.9	1793.2	1778.1	1765.6	1751.7
37.5°	1809.9	1808.6	1800.2	1786.4	1764.1	1739.2	1710.1	1674.0	1637.9	1599.1	1561.7
40°	1726.8	1722.5	1715.6	1696.2	1671.2	1640.7	1601.9	1557.6	1499.3	1439.7	1378.6
42.5°	1585.2	1586.6	1578.3	1563.1	1539.4	1510.3	1470.1	1421.6	1359.2	1288.5	1209.4
45°	1420.2	1420.2	1417.4	1404.9	1388.2	1364.7	1334.2	1294.0	1233.0	1160.9	1076.3
47.5°	1248.2	1249.6	1245.5	1242.7	1235.7	1220.5	1198.4	1167.8	1124.8	1055.5	970.9
50°	1073.5	1073.5	1080.4	1079.0	1079.0	1073.5	1063.8	1045.7	1008.3	952.8	873.8
52.5°	898.8	901.5	905.6	911.2	918.1	929.2	918.1	909.8	886.3	843.2	775.2
55°	718.4	721.2	728.1	737.8	746.2	757.2	760.1	760.1	747.6	718.4	667.1
57.5°	564.5	560.4	565.9	574.2	585.3	596.4	604.7	614.4	613.0	593.6	552.0
60°	424.4	425.8	430.0	438.3	446.6	456.3	467.4	475.8	479.9	470.1	443.8
62.5°	309.3	309.3	314.8	323.1	327.3	341.2	348.1	352.2	356.4	355.0	338.4
65°	216.3	219.2	221.8	226.1	230.2	238.5	242.7	251.0	253.8	255.2	242.7
67.5°	152.5	148.4	151.2	153.9	158.1	163.7	172.0	172.0	176.2	176.2	167.8
70°	97.1	97.1	98.4	102.6	105.4	106.8	109.6	112.3	116.6	115.1	115.1
72.5°	65.1	63.8	65.1	66.6	68.0	72.1	72.1	73.5	76.3	77.6	72.1
75°	33.3	34.6	37.5	36.1	40.2	37.5	38.8	43.0	41.6	38.8	38.8
77.5°	27.7	27.7	27.7	26.3	29.1	29.1	27.7	30.5	29.1	29.1	27.7
80°	19.5	20.8	19.5	18.0	19.5	18.0	18.0	18.0	18.0	18.0	16.7
82.5°	15.3	12.5	13.8	12.5	13.8	13.8	12.5	11.1	11.1	12.5	11.1
85°	11.1	8.3	9.7	9.7	8.3	8.3	8.3	8.3	8.3	7.0	7.0
87.5°	7.0	4.2	4.2	4.2	5.5	5.5	5.5	4.2	5.5	5.5	2.8
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: P249604

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8
2.5°	2588.0	2586.6	2589.4	2588.0	2588.0	2586.6	2588.0	2586.6	2589.4	2583.8	2585.2
5°	2588.0	2585.2	2586.6	2588.0	2589.4	2586.6	2586.6	2586.6	2589.4	2586.6	2588.0
7.5°	2582.4	2581.1	2585.2	2588.0	2586.6	2585.2	2588.0	2586.6	2589.4	2588.0	2590.8
10°	2571.3	2572.8	2575.5	2579.6	2581.1	2582.4	2585.2	2585.2	2589.4	2583.8	2586.6
12.5°	2554.6	2560.3	2567.1	2570.0	2575.5	2575.5	2578.3	2579.6	2582.4	2581.1	2585.2
15°	2534.0	2540.8	2549.1	2556.1	2563.0	2567.1	2571.3	2572.8	2576.9	2572.8	2574.1
17.5°	2509.0	2517.2	2529.7	2538.0	2549.1	2553.3	2558.8	2561.6	2565.8	2563.0	2564.4
20°	2474.2	2484.0	2497.8	2510.3	2517.2	2527.0	2534.0	2538.0	2540.8	2538.0	2539.5
22.5°	2425.7	2439.6	2457.6	2467.4	2481.2	2489.5	2490.9	2500.6	2507.5	2500.6	2503.4
25°	2368.8	2382.8	2396.6	2417.4	2429.9	2439.6	2449.4	2450.7	2457.6	2456.2	2454.9
27.5°	2274.5	2292.6	2316.2	2332.8	2349.5	2364.8	2375.8	2378.6	2385.5	2382.8	2384.1
30°	2145.5	2165.0	2187.2	2213.5	2237.1	2252.4	2266.2	2275.9	2282.8	2278.7	2277.3
32.5°	1962.4	1981.9	2005.5	2031.9	2059.5	2081.7	2098.4	2110.8	2119.2	2116.5	2109.5
35°	1753.1	1758.6	1773.9	1794.7	1818.2	1841.8	1857.0	1871.0	1880.7	1883.5	1883.5
37.5°	1538.1	1520.1	1509.0	1509.0	1522.8	1532.5	1546.4	1554.8	1570.0	1575.6	1579.7
40°	1330.1	1288.5	1249.6	1220.5	1201.0	1199.7	1199.7	1203.9	1217.7	1235.7	1252.4
42.5°	1144.2	1077.6	1018.0	963.9	925.1	902.9	893.1	894.6	905.6	922.3	950.1
45°	995.8	912.6	837.7	772.5	719.8	685.1	668.5	667.1	675.4	694.8	725.4
47.5°	880.6	791.9	707.3	632.5	575.6	538.1	518.7	513.2	518.7	536.7	572.8
50°	785.0	693.4	606.0	528.4	467.4	428.6	410.5	403.7	410.5	425.8	461.8
52.5°	696.3	601.9	520.1	445.2	380.0	346.7	327.3	323.1	327.3	345.4	374.5
55°	593.6	513.2	432.7	357.9	300.9	267.6	252.4	248.3	252.4	269.1	299.6
57.5°	492.4	423.0	352.2	284.3	235.8	206.7	192.8	187.2	196.9	208.0	244.1
60°	398.0	342.6	282.9	223.3	183.0	156.7	145.6	144.2	147.0	160.9	185.8
62.5°	312.1	266.3	219.2	170.5	137.2	126.2	112.3	110.9	113.7	122.1	141.5
65°	224.7	195.5	159.5	124.8	98.4	83.2	77.6	79.1	81.8	87.4	105.4
67.5°	156.7	135.9	110.9	87.4	68.0	61.0	55.5	54.1	55.5	65.1	74.9
70°	105.4	92.9	74.9	66.6	47.1	37.5	38.8	34.6	40.2	40.2	48.5
72.5°	69.3	61.0	49.9	38.8	33.3	26.3	26.3	25.0	27.7	29.1	36.1
75°	36.1	27.7	27.7	19.5	13.8	7.0	12.5	11.1	9.7	11.1	13.8
77.5°	25.0	20.8	19.5	15.3	13.8	11.1	11.1	11.1	11.1	12.5	13.8
80°	15.3	15.3	11.1	9.7	8.3	7.0	8.3	8.3	8.3	8.3	9.7
82.5°	9.7	8.3	8.3	7.0	7.0	5.5	5.5	5.5	5.5	5.5	8.3
85°	8.3	5.5	5.5	4.2	5.5	9.7	4.2	5.5	5.5	5.5	4.2
87.5°	2.8	4.2	4.2	4.2	2.8	1.3	2.8	4.2	4.2	7.0	5.5
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: P249604

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8	2583.8
2.5°	2588.0	2589.4	2589.4	2588.0	2588.0	2585.2	2590.8	2586.6	2588.0	2593.6	2589.4
5°	2590.8	2592.1	2592.1	2590.8	2590.8	2590.8	2592.1	2592.1	2590.8	2589.4	2592.1
7.5°	2596.3	2594.9	2594.9	2592.1	2592.1	2589.4	2592.1	2588.0	2590.8	2588.0	2592.1
10°	2589.4	2590.8	2589.4	2588.0	2588.0	2586.6	2586.6	2582.4	2583.8	2579.6	2582.4
12.5°	2585.2	2583.8	2583.8	2581.1	2578.3	2575.5	2574.1	2570.0	2570.0	2560.3	2564.4
15°	2574.1	2575.5	2571.3	2565.8	2563.0	2556.1	2553.3	2547.8	2542.2	2535.3	2536.6
17.5°	2564.4	2560.3	2554.6	2549.1	2538.0	2532.5	2527.0	2518.6	2515.8	2507.5	2504.8
20°	2535.3	2532.5	2525.6	2515.8	2509.0	2496.5	2490.9	2482.5	2475.7	2467.4	2463.2
22.5°	2497.8	2495.0	2486.7	2477.0	2465.9	2460.4	2454.9	2439.6	2432.6	2424.4	2422.9
25°	2450.7	2446.5	2438.2	2427.1	2421.6	2406.3	2400.8	2389.6	2386.9	2378.6	2377.2
27.5°	2378.6	2373.0	2363.3	2349.5	2339.8	2330.0	2324.5	2316.2	2313.3	2305.0	2303.7
30°	2270.4	2263.4	2244.0	2238.5	2221.9	2212.1	2212.1	2201.1	2202.4	2196.9	2196.9
32.5°	2099.8	2088.7	2073.4	2062.4	2051.2	2045.7	2045.7	2041.5	2044.4	2044.4	2047.0
35°	1873.7	1858.5	1850.2	1843.2	1843.2	1848.7	1865.4	1869.5	1877.8	1884.8	1890.3
37.5°	1583.9	1582.5	1592.2	1600.5	1621.4	1644.9	1674.0	1699.0	1722.5	1739.2	1755.8
40°	1270.5	1305.1	1332.8	1371.7	1403.6	1449.3	1502.0	1545.0	1585.2	1614.4	1644.9
42.5°	991.7	1036.0	1094.3	1151.1	1208.0	1270.5	1339.8	1399.4	1452.1	1492.3	1524.3
45°	772.5	833.5	904.3	976.4	1049.9	1127.6	1199.7	1260.7	1316.1	1357.8	1389.7
47.5°	622.7	689.3	769.7	848.8	932.0	1013.8	1094.3	1146.9	1192.7	1226.0	1255.2
50°	514.6	585.3	669.9	760.1	843.2	925.1	994.4	1045.7	1083.1	1112.3	1130.3
52.5°	430.0	504.8	595.0	685.1	768.4	843.2	905.6	944.6	975.0	995.8	1012.4
55°	355.0	427.2	511.8	596.4	678.2	748.9	800.2	829.4	853.0	865.5	875.1
57.5°	289.9	356.4	434.1	511.8	582.5	640.8	681.0	710.1	721.2	730.9	729.6
60°	227.5	289.9	360.6	427.2	488.2	535.4	564.5	581.1	589.4	593.6	590.8
62.5°	178.9	235.8	289.9	348.1	392.5	432.7	460.5	460.5	464.6	466.0	470.1
65°	133.1	176.2	223.3	266.3	302.3	328.7	344.0	348.1	353.7	352.2	349.5
67.5°	98.4	130.4	165.0	196.9	221.8	238.5	249.6	259.3	258.0	255.2	253.8
70°	68.0	88.8	119.2	138.7	156.7	173.4	176.2	177.5	178.9	180.3	177.5
72.5°	47.1	62.4	79.1	95.7	106.8	113.7	120.7	122.1	122.1	122.1	120.7
75°	23.6	32.0	47.1	54.1	63.8	66.6	72.1	72.1	76.3	70.8	69.3
77.5°	20.8	25.0	33.3	38.8	43.0	47.1	48.5	52.6	51.3	48.5	49.9
80°	12.5	15.3	20.8	23.6	29.1	30.5	32.0	33.3	32.0	33.3	33.3
82.5°	9.7	11.1	13.8	13.8	18.0	18.0	19.5	19.5	20.8	20.8	20.8
85°	5.5	9.7	8.3	16.7	11.1	11.1	13.8	16.7	13.8	13.8	16.7
87.5°	5.5	5.5	4.2	5.5	5.5	5.5	7.0	8.3	8.3	9.7	8.3
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: P249604

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2583.8	2583.8	2583.8	2583.8
2.5°	2588.0	2590.8	2586.6	2585.2
5°	2592.1	2592.1	2589.4	2589.4
7.5°	2592.1	2592.1	2588.0	2585.2
10°	2581.1	2581.1	2576.9	2574.1
12.5°	2560.3	2560.3	2558.8	2554.6
15°	2534.0	2534.0	2528.3	2524.2
17.5°	2497.8	2500.6	2493.7	2493.7
20°	2459.0	2457.6	2452.0	2449.4
22.5°	2418.8	2416.0	2414.6	2406.3
25°	2375.8	2373.0	2368.8	2364.8
27.5°	2302.3	2300.8	2296.7	2291.2
30°	2189.9	2188.6	2183.1	2183.1
32.5°	2044.4	2042.9	2037.4	2038.7
35°	1893.2	1898.7	1896.0	1890.3
37.5°	1766.9	1771.1	1773.9	1771.1
40°	1661.5	1674.0	1675.4	1678.2
42.5°	1549.2	1565.8	1571.4	1574.1
45°	1414.7	1429.9	1442.4	1439.7
47.5°	1277.3	1288.5	1299.5	1291.2
50°	1145.6	1152.6	1156.7	1156.7
52.5°	1020.8	1020.8	1019.4	1020.8
55°	878.0	878.0	872.3	875.1
57.5°	728.1	730.9	726.8	719.8
60°	589.4	582.5	579.7	575.6
62.5°	459.1	459.1	449.3	461.8
65°	344.0	339.8	335.6	334.2
67.5°	249.6	248.3	244.1	242.7
70°	176.2	170.5	169.2	166.4
72.5°	117.9	117.9	115.1	115.1
75°	72.1	65.1	63.8	65.1
77.5°	49.9	48.5	48.5	47.1
80°	33.3	32.0	34.6	30.5
82.5°	20.8	22.2	20.8	22.2
85°	13.8	16.7	15.3	15.3
87.5°	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)