

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: P249280

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249280  
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 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4927.5 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

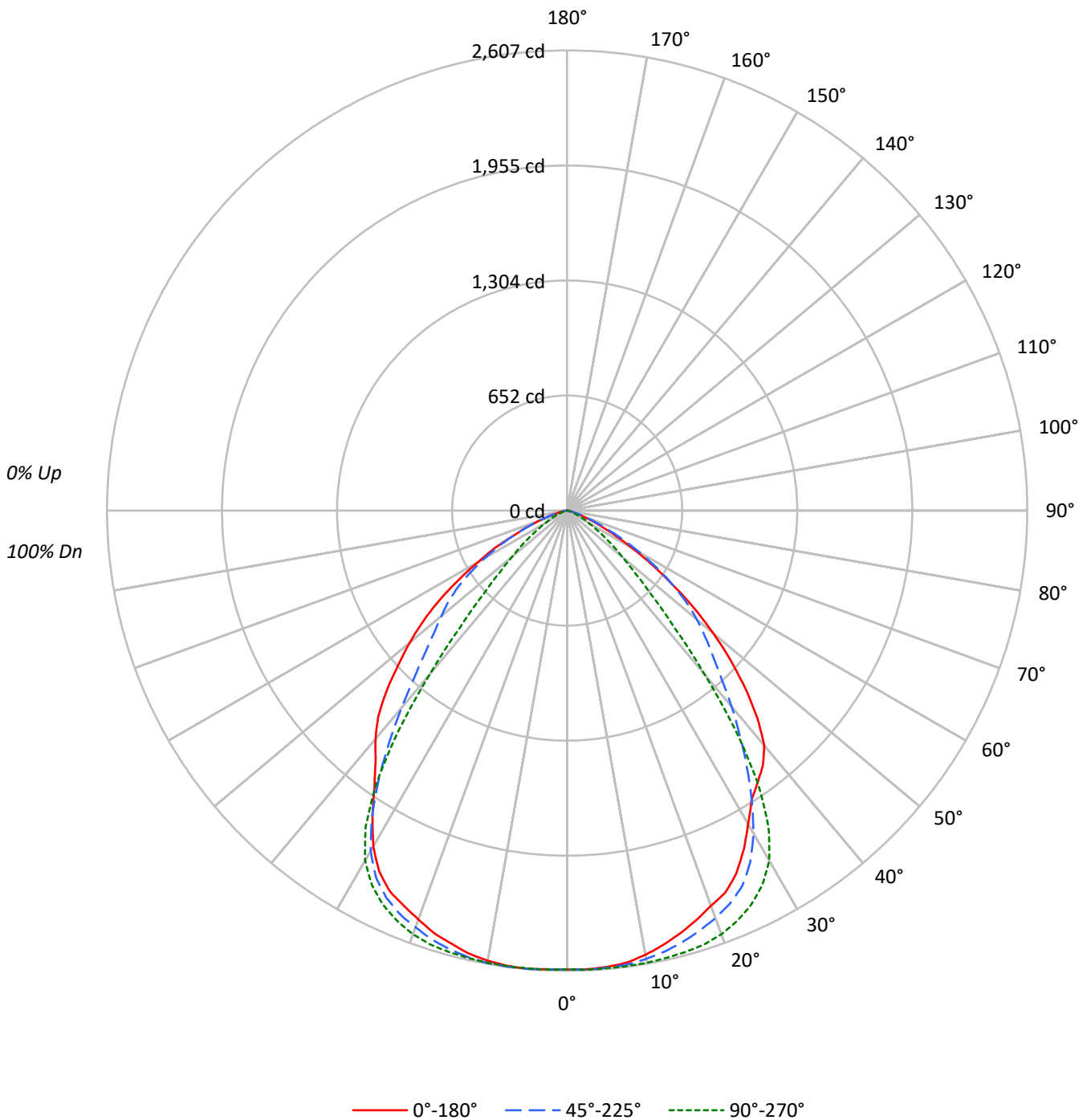
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	52	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°	248.1	5.0
10°-20°	720.6	14.6
20°-30°	1093.7	22.2
30°-40°	1148.7	23.3
40°-50°	861.2	17.5
50°-60°	552.6	11.2
60°-70°	236.4	4.8
70°-80°	55.8	1.1
80°-90°	10.4	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°	2062.4	41.9
0°-40°	3211.1	65.2
0°-60°	4624.9	93.9
0°-90°	4927.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4927.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2600	2600	2600	2600	2600	
5°	2596	2600	2603	2607	2606	247
15°	2478	2530	2589	2572	2540	699
25°	2268	2347	2466	2421	2379	1036
35°	1881	1776	1883	1860	1902	1181
45°	1429	1168	671	1135	1449	1094
55°	723	723	250	754	880	656
65°	218	257	80	331	336	232
75°	34	39	11	67	66	49
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°	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9
2.5°	2601.2	2604.0	2602.7	2602.7	2601.2	2602.7	2602.7	2605.5	2605.5	2602.7	2601.2
5°	2595.6	2598.4	2598.4	2595.6	2595.6	2602.7	2598.4	2601.2	2601.2	2599.9	2599.9
7.5°	2583.1	2583.1	2588.6	2584.5	2584.5	2588.6	2587.3	2590.1	2592.9	2594.2	2594.2
10°	2555.2	2558.0	2559.4	2559.4	2560.8	2565.0	2567.7	2573.3	2576.1	2579.0	2580.3
12.5°	2520.3	2524.5	2525.8	2524.5	2528.7	2534.3	2541.3	2548.2	2552.4	2558.0	2562.2
15°	2478.4	2478.4	2481.2	2485.5	2488.3	2496.6	2503.6	2511.9	2523.0	2530.1	2537.1
17.5°	2432.4	2435.2	2439.3	2439.3	2445.0	2458.9	2463.1	2475.7	2488.3	2495.1	2509.2
20°	2382.2	2384.9	2389.2	2392.0	2399.0	2410.1	2418.4	2429.5	2443.6	2456.1	2470.0
22.5°	2343.0	2337.5	2340.2	2343.0	2350.0	2359.8	2369.6	2383.5	2397.5	2410.1	2424.0
25°	2267.7	2269.1	2273.3	2276.1	2284.4	2292.9	2304.0	2320.8	2333.2	2347.3	2362.6
27.5°	2165.8	2167.2	2174.2	2174.2	2181.2	2195.1	2202.1	2216.0	2232.8	2246.7	2265.0
30°	2050.0	2052.8	2052.8	2058.4	2062.6	2069.5	2076.5	2090.5	2098.8	2111.4	2136.6
32.5°	1944.0	1946.7	1945.4	1944.0	1939.7	1938.4	1937.0	1939.7	1942.5	1946.7	1956.5
35°	1881.2	1874.1	1868.6	1858.8	1847.7	1833.8	1821.2	1804.4	1789.1	1776.5	1762.5
37.5°	1821.2	1819.8	1811.4	1797.4	1775.1	1749.9	1720.7	1684.4	1648.1	1609.0	1571.4
40°	1737.4	1733.2	1726.2	1706.7	1681.5	1650.9	1611.8	1567.1	1508.5	1448.6	1387.1
42.5°	1595.0	1596.5	1588.0	1572.8	1549.0	1519.6	1479.3	1430.4	1367.7	1296.4	1216.9
45°	1429.0	1429.0	1426.2	1413.7	1396.9	1373.2	1342.5	1302.1	1240.6	1168.1	1082.9
47.5°	1256.0	1257.4	1253.1	1250.4	1243.4	1228.0	1205.8	1175.1	1131.8	1062.0	976.8
50°	1080.1	1080.1	1087.1	1085.7	1085.7	1080.1	1070.3	1052.2	1014.5	958.7	879.2
52.5°	904.3	907.1	911.2	916.9	923.8	935.0	923.8	915.4	891.7	848.5	780.1
55°	722.9	725.6	732.6	742.4	750.8	762.0	764.8	764.8	752.2	722.9	671.3
57.5°	568.0	563.7	569.4	577.8	588.9	600.1	608.4	618.2	616.8	597.3	555.4
60°	427.0	428.4	432.6	441.0	449.3	459.1	470.2	478.7	482.8	473.1	446.5
62.5°	311.2	311.2	316.8	325.1	329.3	343.3	350.3	354.5	358.7	357.2	340.5
65°	217.7	220.5	223.3	227.5	231.6	240.0	244.2	252.6	255.4	256.7	244.2
67.5°	153.6	149.3	152.1	154.9	159.1	164.7	173.0	173.0	177.2	177.2	168.9
70°	97.6	97.6	99.1	103.3	106.1	107.4	110.2	113.1	117.2	115.9	115.9
72.5°	65.6	64.2	65.6	67.0	68.4	72.6	72.6	73.9	76.7	78.2	72.6
75°	33.5	34.9	37.7	36.3	40.5	37.7	39.0	43.3	41.8	39.0	39.0
77.5°	27.9	27.9	27.9	26.6	29.2	29.2	27.9	30.7	29.2	29.2	27.9
80°	19.6	20.9	19.6	18.1	19.6	18.1	18.1	18.1	18.1	18.1	16.8
82.5°	15.4	12.6	14.0	12.6	14.0	14.0	12.6	11.1	11.1	12.6	11.1
85°	11.1	8.3	9.8	9.8	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9
2.5°	2604.0	2602.7	2605.5	2604.0	2604.0	2602.7	2604.0	2602.7	2605.5	2599.9	2601.2
5°	2604.0	2601.2	2602.7	2604.0	2605.5	2602.7	2602.7	2602.7	2605.5	2602.7	2604.0
7.5°	2598.4	2597.1	2601.2	2604.0	2602.7	2601.2	2604.0	2602.7	2605.5	2604.0	2606.8
10°	2587.3	2588.6	2591.4	2595.6	2597.1	2598.4	2601.2	2601.2	2605.5	2599.9	2602.7
12.5°	2570.5	2576.1	2583.1	2585.9	2591.4	2591.4	2594.2	2595.6	2598.4	2597.1	2601.2
15°	2549.6	2556.6	2565.0	2572.0	2579.0	2583.1	2587.3	2588.6	2592.9	2588.6	2590.1
17.5°	2524.5	2532.8	2545.4	2553.8	2565.0	2569.2	2574.7	2577.5	2581.8	2579.0	2580.3
20°	2489.6	2499.4	2513.4	2525.8	2532.8	2542.6	2549.6	2553.8	2556.6	2553.8	2555.2
22.5°	2440.8	2454.8	2472.9	2482.6	2496.6	2504.9	2506.4	2516.2	2523.0	2516.2	2518.9
25°	2383.5	2397.5	2411.4	2432.4	2445.0	2454.8	2464.5	2465.9	2472.9	2471.5	2470.0
27.5°	2288.6	2306.8	2330.5	2347.3	2364.0	2379.4	2390.5	2393.3	2400.3	2397.5	2399.0
30°	2158.9	2178.5	2200.7	2227.3	2251.0	2266.3	2280.3	2290.0	2297.0	2292.9	2291.4
32.5°	1974.7	1994.2	2017.9	2044.5	2072.4	2094.6	2111.4	2124.0	2132.3	2129.5	2122.5
35°	1764.0	1769.5	1784.9	1805.8	1829.5	1853.2	1868.6	1882.6	1892.4	1895.1	1895.1
37.5°	1547.7	1529.6	1518.3	1518.3	1532.2	1542.0	1556.0	1564.3	1579.7	1585.4	1589.5
40°	1338.3	1296.4	1257.4	1228.0	1208.5	1207.1	1207.1	1211.3	1225.2	1243.4	1260.1
42.5°	1151.3	1084.3	1024.3	969.9	930.8	908.4	898.8	900.1	911.2	928.0	955.9
45°	1002.0	918.2	842.8	777.3	724.3	689.4	672.6	671.3	679.6	699.2	729.9
47.5°	886.2	796.8	711.7	636.3	579.2	541.5	521.9	516.4	521.9	540.0	576.3
50°	789.9	697.7	609.9	531.7	470.2	431.2	413.1	406.1	413.1	428.4	464.7
52.5°	700.5	605.7	523.4	448.0	382.4	348.9	329.3	325.1	329.3	347.5	376.8
55°	597.3	516.4	435.4	360.0	302.8	269.3	254.0	249.9	254.0	270.8	301.4
57.5°	495.4	425.6	354.5	286.1	237.3	207.9	194.0	188.4	198.1	209.4	245.6
60°	400.5	344.7	284.6	224.7	184.2	157.7	146.5	145.1	147.9	161.9	187.0
62.5°	314.0	268.0	220.5	171.7	138.2	127.0	113.1	111.7	114.4	122.7	142.3
65°	226.1	196.8	160.5	125.6	99.1	83.7	78.2	79.5	82.4	88.0	106.1
67.5°	157.7	136.8	111.7	88.0	68.4	61.4	55.8	54.4	55.8	65.6	75.4
70°	106.1	93.5	75.4	67.0	47.5	37.7	39.0	34.9	40.5	40.5	48.8
72.5°	69.8	61.4	50.2	39.0	33.5	26.6	26.6	25.1	27.9	29.2	36.3
75°	36.3	27.9	27.9	19.6	14.0	7.0	12.6	11.1	9.8	11.1	14.0
77.5°	25.1	20.9	19.6	15.4	14.0	11.1	11.1	11.1	11.1	12.6	14.0
80°	15.4	15.4	11.1	9.8	8.3	7.0	8.3	8.3	8.3	8.3	9.8
82.5°	9.8	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	9.8	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9	2599.9
2.5°	2604.0	2605.5	2605.5	2604.0	2604.0	2601.2	2606.8	2602.7	2604.0	2609.7	2605.5
5°	2606.8	2608.2	2608.2	2606.8	2606.8	2606.8	2608.2	2608.2	2606.8	2605.5	2608.2
7.5°	2612.4	2611.0	2611.0	2608.2	2608.2	2605.5	2608.2	2604.0	2606.8	2604.0	2608.2
10°	2605.5	2606.8	2605.5	2604.0	2604.0	2602.7	2602.7	2598.4	2599.9	2595.6	2598.4
12.5°	2601.2	2599.9	2599.9	2597.1	2594.2	2591.4	2590.1	2585.9	2585.9	2576.1	2580.3
15°	2590.1	2591.4	2587.3	2581.8	2579.0	2572.0	2569.2	2563.5	2558.0	2551.0	2552.4
17.5°	2580.3	2576.1	2570.5	2565.0	2553.8	2548.2	2542.6	2534.3	2531.5	2523.0	2520.3
20°	2551.0	2548.2	2541.3	2531.5	2524.5	2511.9	2506.4	2498.0	2491.0	2482.6	2478.4
22.5°	2513.4	2510.5	2502.1	2492.4	2481.2	2475.7	2470.0	2454.8	2447.8	2439.3	2438.0
25°	2465.9	2461.7	2453.3	2442.2	2436.5	2421.2	2415.6	2404.5	2401.6	2393.3	2392.0
27.5°	2393.3	2387.7	2377.9	2364.0	2354.3	2344.5	2338.9	2330.5	2327.7	2319.3	2318.0
30°	2284.4	2277.5	2258.0	2252.4	2235.6	2225.8	2225.8	2214.7	2216.0	2210.5	2210.5
32.5°	2112.9	2101.6	2086.3	2075.2	2063.9	2058.4	2058.4	2054.1	2057.0	2057.0	2059.8
35°	1885.4	1870.0	1861.6	1854.7	1854.7	1860.2	1877.0	1881.2	1889.6	1896.5	1902.2
37.5°	1593.7	1592.3	1602.1	1610.4	1631.4	1655.1	1684.4	1709.6	1733.2	1749.9	1766.7
40°	1278.3	1313.2	1341.1	1380.1	1412.2	1458.3	1511.3	1554.6	1595.0	1624.4	1655.1
42.5°	997.8	1042.4	1101.0	1158.3	1215.4	1278.3	1348.1	1408.0	1461.1	1501.5	1533.7
45°	777.3	838.7	909.9	982.5	1056.4	1134.6	1207.1	1268.6	1324.4	1366.2	1398.3
47.5°	626.6	693.6	774.4	854.1	937.8	1020.2	1101.0	1154.1	1200.1	1233.7	1262.9
50°	517.7	588.9	674.0	764.8	848.5	930.8	1000.6	1052.2	1089.9	1119.1	1137.4
52.5°	432.6	507.9	598.7	689.4	773.1	848.5	911.2	950.4	981.0	1002.0	1018.7
55°	357.2	429.9	514.9	600.1	682.4	753.5	805.2	834.5	858.3	870.8	880.5
57.5°	291.7	358.7	436.8	514.9	586.1	644.7	685.2	714.5	725.6	735.4	734.1
60°	228.8	291.7	362.8	429.9	491.2	538.6	568.0	584.7	593.1	597.3	594.4
62.5°	180.0	237.3	291.7	350.3	395.0	435.4	463.3	463.3	467.4	468.9	473.1
65°	134.0	177.2	224.7	268.0	304.2	330.8	346.0	350.3	355.8	354.5	351.7
67.5°	99.1	131.2	166.0	198.1	223.3	240.0	251.2	261.0	259.5	256.7	255.4
70°	68.4	89.3	120.0	139.5	157.7	174.5	177.2	178.6	180.0	181.5	178.6
72.5°	47.5	62.8	79.5	96.3	107.4	114.4	121.4	122.7	122.7	122.7	121.4
75°	23.7	32.1	47.5	54.4	64.2	67.0	72.6	72.6	76.7	71.2	69.8
77.5°	20.9	25.1	33.5	39.0	43.3	47.5	48.8	53.0	51.6	48.8	50.2
80°	12.6	15.4	20.9	23.7	29.2	30.7	32.1	33.5	32.1	33.5	33.5
82.5°	9.8	11.1	14.0	14.0	18.1	18.1	19.6	19.6	20.9	20.9	20.9
85°	5.5	9.8	8.3	16.8	11.1	11.1	14.0	16.8	14.0	14.0	16.8
87.5°	5.5	5.5	4.2	5.5	5.5	5.5	7.0	8.3	8.3	9.8	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: P249280

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2599.9	2599.9	2599.9	2599.9
2.5°	2604.0	2606.8	2602.7	2601.2
5°	2608.2	2608.2	2605.5	2605.5
7.5°	2608.2	2608.2	2604.0	2601.2
10°	2597.1	2597.1	2592.9	2590.1
12.5°	2576.1	2576.1	2574.7	2570.5
15°	2549.6	2549.6	2544.0	2539.8
17.5°	2513.4	2516.2	2509.2	2509.2
20°	2474.2	2472.9	2467.2	2464.5
22.5°	2433.8	2431.0	2429.5	2421.2
25°	2390.5	2387.7	2383.5	2379.4
27.5°	2316.6	2315.1	2311.0	2305.4
30°	2203.5	2202.1	2196.6	2196.6
32.5°	2057.0	2055.6	2050.0	2051.4
35°	1904.8	1910.5	1907.7	1902.2
37.5°	1777.8	1782.1	1784.9	1782.1
40°	1671.9	1684.4	1685.8	1688.6
42.5°	1558.8	1575.6	1581.2	1583.9
45°	1423.5	1438.8	1451.4	1448.6
47.5°	1285.3	1296.4	1307.6	1299.3
50°	1152.7	1159.6	1163.8	1163.8
52.5°	1027.1	1027.1	1025.7	1027.1
55°	883.4	883.4	877.8	880.5
57.5°	732.6	735.4	731.2	724.3
60°	593.1	586.1	583.3	579.2
62.5°	461.9	461.9	452.1	464.7
65°	346.0	341.9	337.7	336.3
67.5°	251.2	249.9	245.6	244.2
70°	177.2	171.7	170.2	167.4
72.5°	118.6	118.6	115.9	115.9
75°	72.6	65.6	64.2	65.6
77.5°	50.2	48.8	48.8	47.5
80°	33.5	32.1	34.9	30.7
82.5°	20.9	22.4	20.9	22.4
85°	14.0	16.8	15.4	15.4
87.5°	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)