

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: P249172

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249172  
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 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4953.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 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

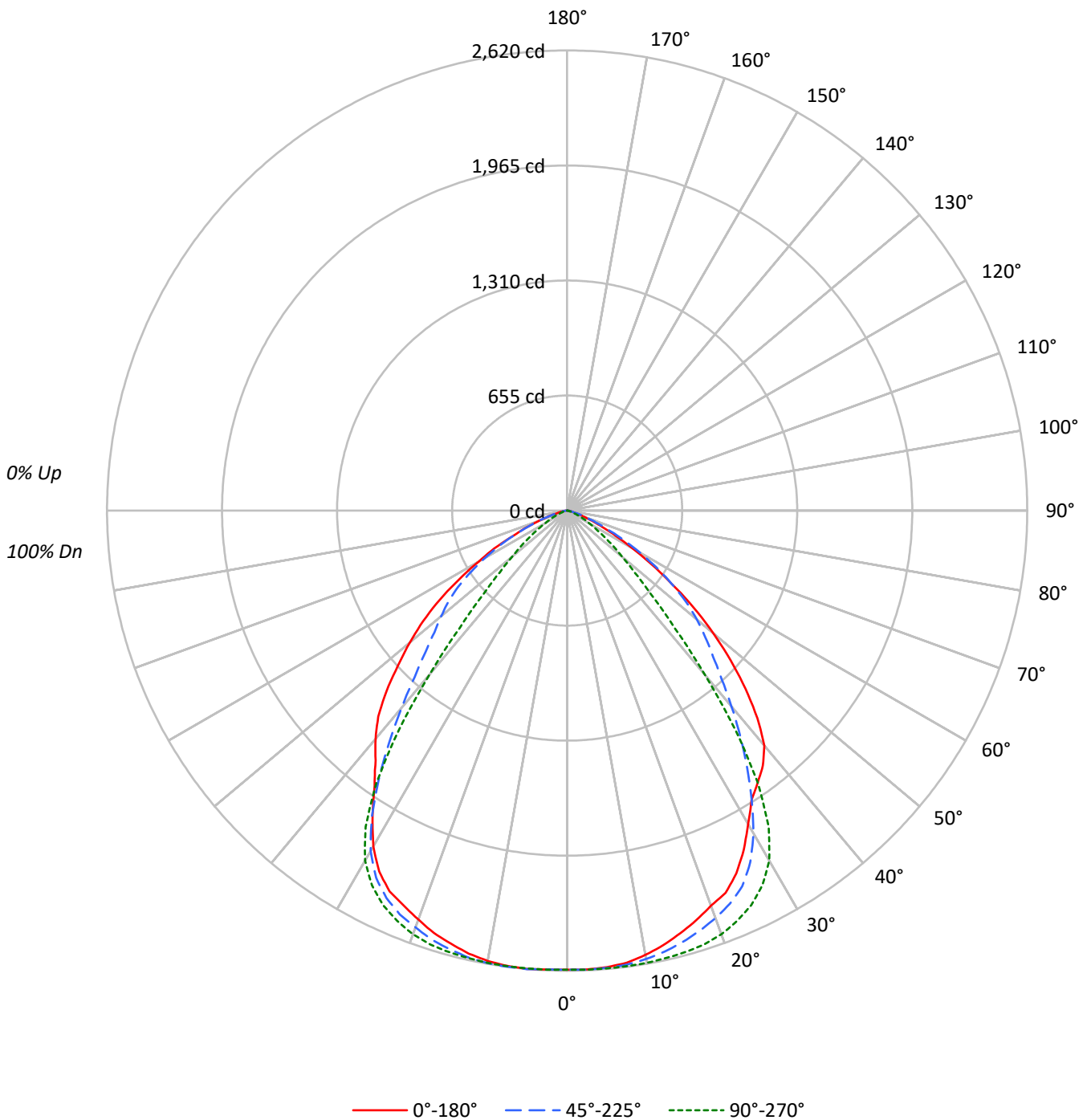
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	249.4	5.0
10°-20°	724.4	14.6
20°-30°	1099.4	22.2
30°-40°	1154.7	23.3
40°-50°	865.7	17.5
50°-60°	555.5	11.2
60°-70°	237.6	4.8
70°-80°	56.1	1.1
80°-90°	10.5	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°	2073.2	41.9
0°-40°	3227.9	65.2
0°-60°	4649.2	93.9
0°-90°	4953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2614	2614	2614	2614	2614	
5°	2609	2614	2616	2620	2619	248
15°	2491	2543	2602	2586	2553	703
25°	2280	2360	2479	2434	2392	1041
35°	1891	1786	1892	1870	1912	1187
45°	1436	1174	675	1140	1456	1100
55°	727	727	251	758	885	659
65°	219	258	80	332	338	234
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°	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5
2.5°	2615.0	2617.8	2616.3	2616.3	2615.0	2616.3	2616.3	2619.1	2619.1	2616.3	2615.0
5°	2609.3	2612.1	2612.1	2609.3	2609.3	2616.3	2612.1	2615.0	2615.0	2613.5	2613.5
7.5°	2596.7	2596.7	2602.2	2598.1	2598.1	2602.2	2600.9	2603.7	2606.5	2607.9	2607.9
10°	2568.6	2571.4	2572.9	2572.9	2574.2	2578.4	2581.2	2586.8	2589.6	2592.5	2593.9
12.5°	2533.5	2537.8	2539.1	2537.8	2541.9	2547.6	2554.6	2561.6	2565.8	2571.4	2575.7
15°	2491.4	2491.4	2494.2	2498.5	2501.3	2509.6	2516.7	2525.1	2536.3	2543.4	2550.4
17.5°	2445.2	2448.0	2452.2	2452.2	2457.8	2471.8	2476.0	2488.6	2501.3	2508.3	2522.4
20°	2394.7	2397.5	2401.6	2404.5	2411.4	2422.7	2431.1	2442.4	2456.4	2469.0	2483.0
22.5°	2355.4	2349.8	2352.6	2355.4	2362.4	2372.2	2382.1	2396.0	2410.1	2422.7	2436.8
25°	2279.6	2281.0	2285.2	2288.0	2296.5	2304.9	2316.2	2332.9	2345.5	2359.6	2375.0
27.5°	2177.2	2178.7	2185.6	2185.6	2192.6	2206.7	2213.7	2227.7	2244.6	2258.5	2276.9
30°	2060.8	2063.6	2063.6	2069.2	2073.4	2080.5	2087.4	2101.5	2109.8	2122.5	2147.7
32.5°	1954.1	1956.9	1955.6	1954.1	1950.0	1948.5	1947.2	1950.0	1952.8	1956.9	1966.7
35°	1891.0	1884.0	1878.4	1868.6	1857.4	1843.3	1830.7	1813.8	1798.4	1785.8	1771.8
37.5°	1830.7	1829.2	1820.9	1806.9	1784.4	1759.2	1729.7	1693.2	1656.8	1617.5	1579.6
40°	1746.6	1742.3	1735.3	1715.7	1690.4	1659.6	1620.3	1575.4	1516.5	1456.2	1394.4
42.5°	1603.5	1604.8	1596.5	1581.0	1557.2	1527.6	1487.0	1438.0	1374.8	1303.2	1223.3
45°	1436.5	1436.5	1433.7	1421.1	1404.2	1380.4	1349.6	1308.8	1247.2	1174.2	1088.6
47.5°	1262.6	1263.9	1259.8	1257.0	1249.9	1234.5	1212.1	1181.2	1137.7	1067.5	982.0
50°	1085.9	1085.9	1092.8	1091.4	1091.4	1085.9	1076.0	1057.7	1019.9	963.8	883.8
52.5°	909.0	911.8	916.1	921.7	928.7	939.9	928.7	920.2	896.4	852.9	784.2
55°	726.6	729.4	736.5	746.3	754.8	766.0	768.7	768.7	756.1	726.6	674.8
57.5°	570.9	566.8	572.4	580.8	592.0	603.2	611.7	621.4	620.1	600.4	558.3
60°	429.3	430.6	434.8	443.4	451.7	461.6	472.7	481.2	485.4	475.5	448.9
62.5°	312.9	312.9	318.5	326.8	331.1	345.2	352.1	356.3	360.6	359.1	342.3
65°	218.8	221.6	224.4	228.7	232.9	241.3	245.5	253.9	256.7	258.1	245.5
67.5°	154.4	150.1	152.9	155.7	160.0	165.6	173.9	173.9	178.2	178.2	169.8
70°	98.2	98.2	99.6	103.8	106.6	108.0	110.8	113.6	117.8	116.4	116.4
72.5°	65.9	64.6	65.9	67.4	68.7	72.9	72.9	74.4	77.2	78.5	72.9
75°	33.6	35.1	37.9	36.4	40.7	37.9	39.3	43.5	42.1	39.3	39.3
77.5°	28.0	28.0	28.0	26.7	29.5	29.5	28.0	30.8	29.5	29.5	28.0
80°	19.7	21.0	19.7	18.2	19.7	18.2	18.2	18.2	18.2	18.2	16.9
82.5°	15.4	12.6	14.1	12.6	14.1	14.1	12.6	11.2	11.2	12.6	11.2
85°	11.2	8.4	9.8	9.8	8.4	8.4	8.4	8.4	8.4	7.0	7.0
87.5°	7.0	4.3	4.3	4.3	5.6	5.6	5.6	4.3	5.6	5.6	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: P249172

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5
2.5°	2617.8	2616.3	2619.1	2617.8	2617.8	2616.3	2617.8	2616.3	2619.1	2613.5	2615.0
5°	2617.8	2615.0	2616.3	2617.8	2619.1	2616.3	2616.3	2616.3	2619.1	2616.3	2617.8
7.5°	2612.1	2610.7	2615.0	2617.8	2616.3	2615.0	2617.8	2616.3	2619.1	2617.8	2620.5
10°	2600.9	2602.2	2605.0	2609.3	2610.7	2612.1	2615.0	2615.0	2619.1	2613.5	2616.3
12.5°	2584.0	2589.6	2596.7	2599.4	2605.0	2605.0	2607.9	2609.3	2612.1	2610.7	2615.0
15°	2563.0	2570.1	2578.4	2585.5	2592.5	2596.7	2600.9	2602.2	2606.5	2602.2	2603.7
17.5°	2537.8	2546.1	2558.8	2567.1	2578.4	2582.7	2588.3	2591.1	2595.3	2592.5	2593.9
20°	2502.7	2512.5	2526.5	2539.1	2546.1	2556.0	2563.0	2567.1	2570.1	2567.1	2568.6
22.5°	2453.6	2467.6	2485.8	2495.7	2509.6	2518.1	2519.5	2529.3	2536.3	2529.3	2532.2
25°	2396.0	2410.1	2424.2	2445.2	2457.8	2467.6	2477.5	2478.8	2485.8	2484.5	2483.0
27.5°	2300.6	2319.0	2342.7	2359.6	2376.5	2391.9	2403.1	2405.8	2412.9	2410.1	2411.4
30°	2170.2	2189.8	2212.3	2239.0	2262.8	2278.2	2292.3	2302.1	2309.1	2304.9	2303.4
32.5°	1985.1	2004.6	2028.5	2055.2	2083.3	2105.7	2122.5	2135.1	2143.6	2140.8	2133.8
35°	1773.2	1778.8	1794.3	1815.3	1839.2	1863.0	1878.4	1892.5	1902.3	1905.1	1905.1
37.5°	1555.8	1537.5	1526.3	1526.3	1540.4	1550.1	1564.2	1572.6	1588.0	1593.7	1597.8
40°	1345.3	1303.2	1263.9	1234.5	1214.9	1213.4	1213.4	1217.7	1231.6	1249.9	1266.8
42.5°	1157.4	1090.0	1029.7	974.9	935.7	913.3	903.5	904.8	916.1	932.8	961.0
45°	1007.2	923.1	847.4	781.4	728.1	693.0	676.1	674.8	683.2	702.8	733.7
47.5°	890.8	801.0	715.4	639.7	582.2	544.3	524.7	519.1	524.7	542.9	579.4
50°	794.0	701.4	613.0	534.5	472.7	433.5	415.2	408.3	415.2	430.6	467.1
52.5°	704.2	608.8	526.1	450.3	384.4	350.7	331.1	326.8	331.1	349.3	378.8
55°	600.4	519.1	437.7	361.9	304.4	270.8	255.3	251.1	255.3	272.1	303.1
57.5°	498.0	427.8	356.3	287.6	238.5	209.0	195.0	189.3	199.2	210.4	246.9
60°	402.6	346.5	286.2	225.9	185.2	158.5	147.3	145.9	148.7	162.8	188.0
62.5°	315.7	269.3	221.6	172.6	138.8	127.7	113.6	112.3	115.0	123.4	143.1
65°	227.2	197.8	161.3	126.2	99.6	84.1	78.5	80.0	82.8	88.4	106.6
67.5°	158.5	137.5	112.3	88.4	68.7	61.8	56.1	54.7	56.1	65.9	75.7
70°	106.6	93.9	75.7	67.4	47.7	37.9	39.3	35.1	40.7	40.7	49.1
72.5°	70.1	61.8	50.5	39.3	33.6	26.7	26.7	25.3	28.0	29.5	36.4
75°	36.4	28.0	28.0	19.7	14.1	7.0	12.6	11.2	9.8	11.2	14.1
77.5°	25.3	21.0	19.7	15.4	14.1	11.2	11.2	11.2	11.2	12.6	14.1
80°	15.4	15.4	11.2	9.8	8.4	7.0	8.4	8.4	8.4	8.4	9.8
82.5°	9.8	8.4	8.4	7.0	7.0	5.6	5.6	5.6	5.6	5.6	8.4
85°	8.4	5.6	5.6	4.3	5.6	9.8	4.3	5.6	5.6	5.6	4.3
87.5°	2.8	4.3	4.3	4.3	2.8	1.5	2.8	4.3	4.3	7.0	5.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5	2613.5
2.5°	2617.8	2619.1	2619.1	2617.8	2617.8	2615.0	2620.5	2616.3	2617.8	2623.3	2619.1
5°	2620.5	2621.9	2621.9	2620.5	2620.5	2620.5	2621.9	2621.9	2620.5	2619.1	2621.9
7.5°	2626.1	2624.7	2624.7	2621.9	2621.9	2619.1	2621.9	2617.8	2620.5	2617.8	2621.9
10°	2619.1	2620.5	2619.1	2617.8	2617.8	2616.3	2616.3	2612.1	2613.5	2609.3	2612.1
12.5°	2615.0	2613.5	2613.5	2610.7	2607.9	2605.0	2603.7	2599.4	2599.4	2589.6	2593.9
15°	2603.7	2605.0	2600.9	2595.3	2592.5	2585.5	2582.7	2577.0	2571.4	2564.4	2565.8
17.5°	2593.9	2589.6	2584.0	2578.4	2567.1	2561.6	2556.0	2547.6	2544.8	2536.3	2533.5
20°	2564.4	2561.6	2554.6	2544.8	2537.8	2525.1	2519.5	2511.1	2504.0	2495.7	2491.4
22.5°	2526.5	2523.7	2515.3	2505.5	2494.2	2488.6	2483.0	2467.6	2460.6	2452.2	2450.8
25°	2478.8	2474.7	2466.2	2455.0	2449.4	2433.9	2428.3	2417.1	2414.4	2405.8	2404.5
27.5°	2405.8	2400.3	2390.4	2376.5	2366.5	2356.8	2351.1	2342.7	2340.0	2331.6	2330.1
30°	2296.5	2289.5	2269.8	2264.2	2247.3	2237.5	2237.5	2226.3	2227.7	2222.1	2222.1
32.5°	2123.9	2112.6	2097.2	2086.0	2074.8	2069.2	2069.2	2064.9	2067.8	2067.8	2070.6
35°	1895.3	1879.9	1871.4	1864.4	1864.4	1870.0	1886.8	1891.0	1899.4	1906.4	1912.0
37.5°	1602.0	1600.6	1610.4	1618.9	1639.9	1663.8	1693.2	1718.6	1742.3	1759.2	1776.0
40°	1285.0	1320.1	1348.1	1387.5	1419.6	1466.0	1519.3	1562.7	1603.5	1632.9	1663.8
42.5°	1003.0	1047.9	1106.9	1164.4	1221.9	1285.0	1355.2	1415.5	1468.8	1509.4	1541.7
45°	781.4	843.1	914.6	987.6	1062.0	1140.5	1213.4	1275.2	1331.3	1373.4	1405.7
47.5°	629.9	697.2	778.6	858.6	942.8	1025.4	1106.9	1160.2	1206.4	1240.1	1269.6
50°	520.4	592.0	677.6	768.7	852.9	935.7	1005.9	1057.7	1095.6	1125.1	1143.3
52.5°	434.8	510.6	601.9	693.0	777.2	852.9	916.1	955.4	986.2	1007.2	1024.1
55°	359.1	432.1	517.6	603.2	686.0	757.6	809.4	838.9	862.8	875.4	885.2
57.5°	293.2	360.6	439.1	517.6	589.2	648.1	688.8	718.3	729.4	739.4	737.9
60°	230.1	293.2	364.7	432.1	493.8	541.5	570.9	587.8	596.2	600.4	597.6
62.5°	181.0	238.5	293.2	352.1	397.0	437.7	465.8	465.8	469.9	471.4	475.5
65°	134.7	178.2	225.9	269.3	305.8	332.4	348.0	352.1	357.8	356.3	353.5
67.5°	99.6	131.8	167.0	199.2	224.4	241.3	252.4	262.3	260.9	258.1	256.7
70°	68.7	89.8	120.6	140.3	158.5	175.4	178.2	179.5	181.0	182.4	179.5
72.5°	47.7	63.1	80.0	96.8	108.0	115.0	122.1	123.4	123.4	123.4	122.1
75°	23.8	32.3	47.7	54.7	64.6	67.4	72.9	72.9	77.2	71.6	70.1
77.5°	21.0	25.3	33.6	39.3	43.5	47.7	49.1	53.3	51.9	49.1	50.5
80°	12.6	15.4	21.0	23.8	29.5	30.8	32.3	33.6	32.3	33.6	33.6
82.5°	9.8	11.2	14.1	14.1	18.2	18.2	19.7	19.7	21.0	21.0	21.0
85°	5.6	9.8	8.4	16.9	11.2	11.2	14.1	16.9	14.1	14.1	16.9
87.5°	5.6	5.6	4.3	5.6	5.6	5.6	7.0	8.4	8.4	9.8	8.4
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: P249172

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2613.5	2613.5	2613.5	2613.5
2.5°	2617.8	2620.5	2616.3	2615.0
5°	2621.9	2621.9	2619.1	2619.1
7.5°	2621.9	2621.9	2617.8	2615.0
10°	2610.7	2610.7	2606.5	2603.7
12.5°	2589.6	2589.6	2588.3	2584.0
15°	2563.0	2563.0	2557.4	2553.2
17.5°	2526.5	2529.3	2522.4	2522.4
20°	2487.3	2485.8	2480.3	2477.5
22.5°	2446.5	2443.7	2442.4	2433.9
25°	2403.1	2400.3	2396.0	2391.9
27.5°	2328.8	2327.3	2323.1	2317.5
30°	2215.1	2213.7	2208.0	2208.0
32.5°	2067.8	2066.4	2060.8	2062.2
35°	1914.9	1920.5	1917.7	1912.0
37.5°	1787.2	1791.4	1794.3	1791.4
40°	1680.6	1693.2	1694.6	1697.5
42.5°	1567.0	1583.8	1589.4	1592.2
45°	1430.9	1446.3	1459.0	1456.2
47.5°	1292.1	1303.2	1314.4	1306.0
50°	1158.8	1165.7	1170.0	1170.0
52.5°	1032.5	1032.5	1031.1	1032.5
55°	888.0	888.0	882.4	885.2
57.5°	736.5	739.4	735.1	728.1
60°	596.2	589.2	586.4	582.2
62.5°	464.4	464.4	454.5	467.1
65°	348.0	343.7	339.5	338.1
67.5°	252.4	251.1	246.9	245.5
70°	178.2	172.6	171.1	168.3
72.5°	119.2	119.2	116.4	116.4
75°	72.9	65.9	64.6	65.9
77.5°	50.5	49.1	49.1	47.7
80°	33.6	32.3	35.1	30.8
82.5°	21.0	22.5	21.0	22.5
85°	14.1	16.9	15.4	15.4
87.5°	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)