

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: P249397

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249397  
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 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4553.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

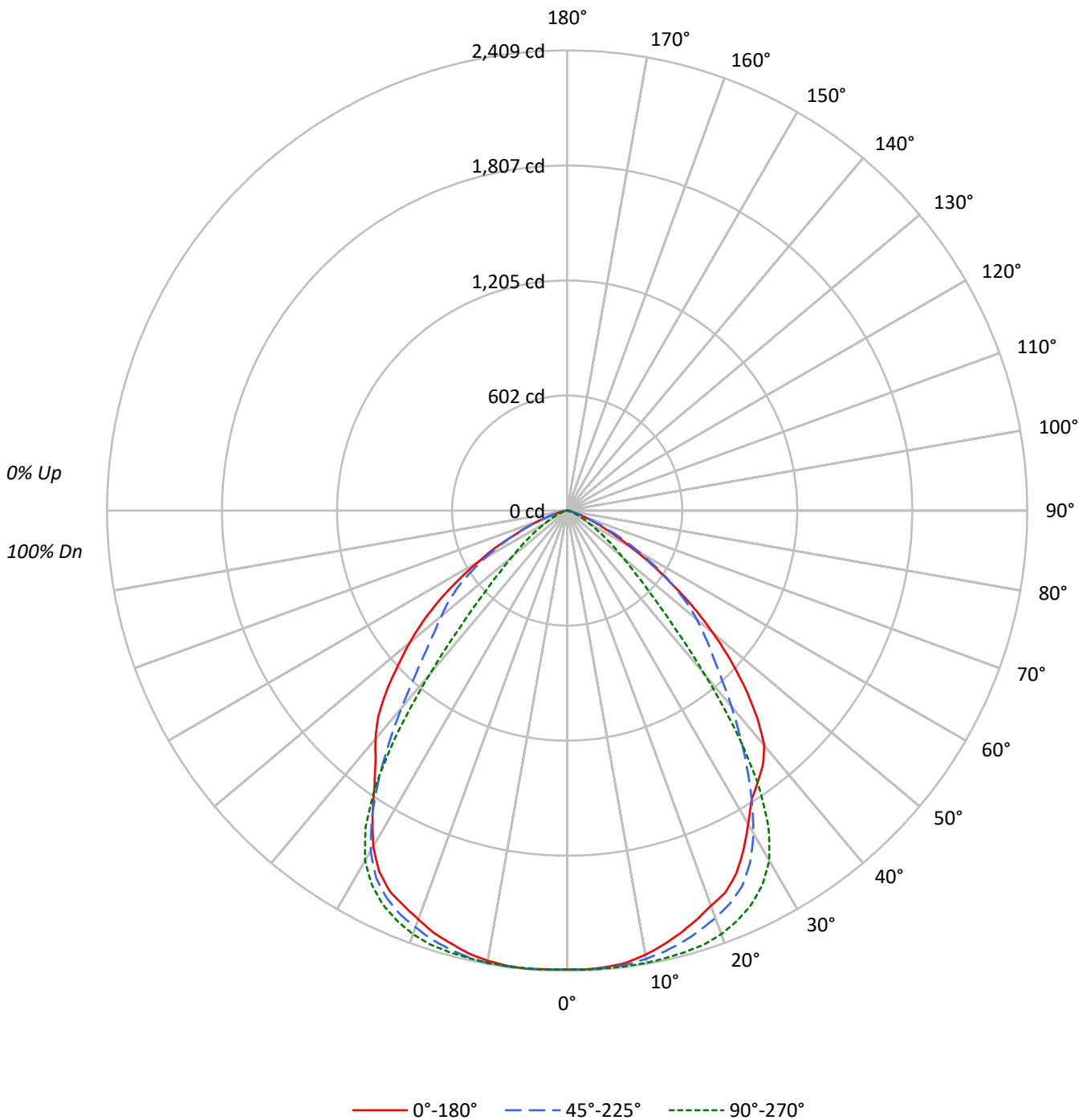
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	229.3	5.0
10°-20°	665.8	14.6
20°-30°	1010.6	22.2
30°-40°	1061.4	23.3
40°-50°	795.8	17.5
50°-60°	510.6	11.2
60°-70°	218.4	4.8
70°-80°	51.6	1.1
80°-90°	9.6	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°	1905.6	41.9
0°-40°	2967.0	65.2
0°-60°	4273.4	93.9
0°-90°	4553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4553.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2402	2402	2402	2402	2402	
5°	2398	2402	2405	2409	2407	228
15°	2290	2338	2392	2376	2347	646
25°	2095	2169	2278	2237	2198	957
35°	1738	1642	1740	1719	1758	1091
45°	1320	1079	620	1048	1338	1011
55°	668	668	231	696	814	606
65°	201	237	74	306	311	215
75°	31	36	10	62	61	45
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°	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2403.5	2406.1	2404.8	2404.8	2403.5	2404.8	2404.8	2407.4	2407.4	2404.8	2403.5
5°	2398.4	2401.0	2401.0	2398.4	2398.4	2404.8	2401.0	2403.5	2403.5	2402.3	2402.3
7.5°	2386.8	2386.8	2391.9	2388.1	2388.1	2391.9	2390.6	2393.2	2395.8	2397.1	2397.1
10°	2361.0	2363.6	2364.9	2364.9	2366.2	2370.0	2372.6	2377.8	2380.3	2382.9	2384.2
12.5°	2328.8	2332.6	2333.9	2332.6	2336.5	2341.6	2348.1	2354.5	2358.4	2363.6	2367.5
15°	2290.1	2290.1	2292.6	2296.5	2299.1	2306.8	2313.3	2321.0	2331.3	2337.8	2344.2
17.5°	2247.5	2250.1	2254.0	2254.0	2259.1	2272.0	2275.9	2287.5	2299.1	2305.5	2318.5
20°	2201.1	2203.7	2207.6	2210.1	2216.6	2226.9	2234.6	2244.9	2257.8	2269.5	2282.3
22.5°	2165.0	2159.8	2162.4	2165.0	2171.5	2180.5	2189.5	2202.4	2215.3	2226.9	2239.8
25°	2095.4	2096.7	2100.5	2103.1	2110.8	2118.6	2128.9	2144.4	2156.0	2168.9	2183.0
27.5°	2001.2	2002.5	2009.0	2009.0	2015.4	2028.3	2034.7	2047.7	2063.1	2076.0	2092.8
30°	1894.2	1896.8	1896.8	1901.9	1905.8	1912.3	1918.7	1931.6	1939.3	1950.9	1974.2
32.5°	1796.2	1798.8	1797.5	1796.2	1792.3	1791.0	1789.8	1792.3	1794.9	1798.8	1807.8
35°	1738.2	1731.7	1726.6	1717.6	1707.2	1694.3	1682.7	1667.3	1653.1	1641.5	1628.6
37.5°	1682.7	1681.4	1673.7	1660.8	1640.2	1617.0	1589.9	1556.4	1522.8	1486.7	1451.9
40°	1605.4	1601.5	1595.1	1577.0	1553.8	1525.4	1489.3	1448.1	1393.9	1338.5	1281.7
42.5°	1473.8	1475.1	1467.4	1453.2	1431.3	1404.2	1366.8	1321.7	1263.7	1197.9	1124.4
45°	1320.4	1320.4	1317.8	1306.2	1290.7	1268.8	1240.5	1203.1	1146.3	1079.3	1000.6
47.5°	1160.5	1161.8	1157.9	1155.4	1148.9	1134.7	1114.1	1085.7	1045.8	981.3	902.6
50°	998.0	998.0	1004.5	1003.2	1003.2	998.0	989.0	972.2	937.4	885.9	812.4
52.5°	835.6	838.1	842.0	847.2	853.6	863.9	853.6	845.9	824.0	784.0	720.8
55°	667.9	670.5	677.0	686.0	693.7	704.1	706.6	706.6	695.0	667.9	620.2
57.5°	524.8	520.9	526.1	533.8	544.2	554.5	562.2	571.2	569.9	551.9	513.2
60°	394.6	395.9	399.7	407.5	415.2	424.2	434.6	442.3	446.2	437.1	412.6
62.5°	287.6	287.6	292.7	300.4	304.3	317.2	323.6	327.5	331.4	330.1	314.6
65°	201.2	203.7	206.3	210.2	214.0	221.8	225.7	233.4	236.0	237.3	225.7
67.5°	141.9	138.0	140.6	143.1	147.0	152.2	159.9	159.9	163.7	163.7	156.0
70°	90.3	90.3	91.6	95.4	98.0	99.3	101.9	104.4	108.3	107.0	107.0
72.5°	60.6	59.3	60.6	61.9	63.2	67.0	67.0	68.3	70.9	72.2	67.0
75°	31.0	32.2	34.8	33.5	37.4	34.8	36.1	40.0	38.7	36.1	36.1
77.5°	25.8	25.8	25.8	24.5	27.1	27.1	25.8	28.4	27.1	27.1	25.8
80°	18.0	19.3	18.0	16.8	18.0	16.8	16.8	16.8	16.8	16.8	15.5
82.5°	14.2	11.6	12.9	11.6	12.9	12.9	11.6	10.3	10.3	11.6	10.3
85°	10.3	7.7	9.0	9.0	7.7	7.7	7.7	7.7	7.7	6.4	6.4
87.5°	6.4	3.9	3.9	3.9	5.1	5.1	5.1	3.9	5.1	5.1	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°	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2406.1	2404.8	2407.4	2406.1	2406.1	2404.8	2406.1	2404.8	2407.4	2402.3	2403.5
5°	2406.1	2403.5	2404.8	2406.1	2407.4	2404.8	2404.8	2404.8	2407.4	2404.8	2406.1
7.5°	2401.0	2399.7	2403.5	2406.1	2404.8	2403.5	2406.1	2404.8	2407.4	2406.1	2408.7
10°	2390.6	2391.9	2394.5	2398.4	2399.7	2401.0	2403.5	2403.5	2407.4	2402.3	2404.8
12.5°	2375.2	2380.3	2386.8	2389.3	2394.5	2394.5	2397.1	2398.4	2401.0	2399.7	2403.5
15°	2355.8	2362.3	2370.0	2376.5	2382.9	2386.8	2390.6	2391.9	2395.8	2391.9	2393.2
17.5°	2332.6	2340.4	2352.0	2359.7	2370.0	2373.9	2379.0	2381.6	2385.5	2382.9	2384.2
20°	2300.4	2309.4	2322.3	2333.9	2340.4	2349.4	2355.8	2359.7	2362.3	2359.7	2361.0
22.5°	2255.3	2268.2	2284.9	2293.9	2306.8	2314.6	2315.9	2324.9	2331.3	2324.9	2327.5
25°	2202.4	2215.3	2228.2	2247.5	2259.1	2268.2	2277.2	2278.5	2284.9	2283.6	2282.3
27.5°	2114.7	2131.5	2153.4	2168.9	2184.3	2198.5	2208.8	2211.4	2217.9	2215.3	2216.6
30°	1994.8	2012.9	2033.5	2058.0	2079.9	2094.1	2107.0	2116.0	2122.4	2118.6	2117.3
32.5°	1824.6	1842.6	1864.6	1889.0	1914.9	1935.5	1950.9	1962.6	1970.3	1967.7	1961.3
35°	1629.9	1635.0	1649.2	1668.6	1690.5	1712.4	1726.6	1739.5	1748.5	1751.1	1751.1
37.5°	1430.0	1413.3	1402.9	1402.9	1415.8	1424.8	1437.7	1445.5	1459.7	1464.8	1468.7
40°	1236.6	1197.9	1161.8	1134.7	1116.7	1115.4	1115.4	1119.2	1132.1	1148.9	1164.4
42.5°	1063.8	1001.9	946.5	896.2	860.1	839.4	830.4	831.7	842.0	857.5	883.3
45°	925.8	848.5	778.8	718.2	669.2	637.0	621.5	620.2	628.0	646.0	674.4
47.5°	818.8	736.3	657.6	588.0	535.1	500.3	482.3	477.1	482.3	499.0	532.5
50°	729.8	644.7	563.5	491.3	434.6	398.5	381.7	375.2	381.7	395.9	429.4
52.5°	647.3	559.6	483.5	413.9	353.3	322.4	304.3	300.4	304.3	321.1	348.2
55°	551.9	477.1	402.3	332.7	279.8	248.9	234.7	230.8	234.7	250.2	278.5
57.5°	457.8	393.3	327.5	264.3	219.2	192.1	179.2	174.1	183.1	193.4	226.9
60°	370.1	318.5	263.0	207.6	170.2	145.7	135.4	134.1	136.7	149.6	172.8
62.5°	290.1	247.6	203.7	158.6	127.7	117.3	104.4	103.2	105.7	113.5	131.5
65°	208.9	181.8	148.3	116.0	91.6	77.4	72.2	73.5	76.1	81.2	98.0
67.5°	145.7	126.4	103.2	81.2	63.2	56.7	51.6	50.3	51.6	60.6	69.6
70°	98.0	86.4	69.6	61.9	43.9	34.8	36.1	32.2	37.4	37.4	45.1
72.5°	64.5	56.7	46.4	36.1	31.0	24.5	24.5	23.2	25.8	27.1	33.5
75°	33.5	25.8	25.8	18.0	12.9	6.4	11.6	10.3	9.0	10.3	12.9
77.5°	23.2	19.3	18.0	14.2	12.9	10.3	10.3	10.3	10.3	11.6	12.9
80°	14.2	14.2	10.3	9.0	7.7	6.4	7.7	7.7	7.7	7.7	9.0
82.5°	9.0	7.7	7.7	6.4	6.4	5.1	5.1	5.1	5.1	5.1	7.7
85°	7.7	5.1	5.1	3.9	5.1	9.0	3.9	5.1	5.1	5.1	3.9
87.5°	2.6	3.9	3.9	3.9	2.6	1.3	2.6	3.9	3.9	6.4	5.1
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°	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2406.1	2407.4	2407.4	2406.1	2406.1	2403.5	2408.7	2404.8	2406.1	2411.3	2407.4
5°	2408.7	2410.0	2410.0	2408.7	2408.7	2408.7	2410.0	2410.0	2408.7	2407.4	2410.0
7.5°	2413.9	2412.6	2412.6	2410.0	2410.0	2407.4	2410.0	2406.1	2408.7	2406.1	2410.0
10°	2407.4	2408.7	2407.4	2406.1	2406.1	2404.8	2404.8	2401.0	2402.3	2398.4	2401.0
12.5°	2403.5	2402.3	2402.3	2399.7	2397.1	2394.5	2393.2	2389.3	2389.3	2380.3	2384.2
15°	2393.2	2394.5	2390.6	2385.5	2382.9	2376.5	2373.9	2368.7	2363.6	2357.1	2358.4
17.5°	2384.2	2380.3	2375.2	2370.0	2359.7	2354.5	2349.4	2341.6	2339.1	2331.3	2328.8
20°	2357.1	2354.5	2348.1	2339.1	2332.6	2321.0	2315.9	2308.1	2301.7	2293.9	2290.1
22.5°	2322.3	2319.7	2312.0	2303.0	2292.6	2287.5	2282.3	2268.2	2261.7	2254.0	2252.7
25°	2278.5	2274.6	2266.9	2256.6	2251.4	2237.2	2232.0	2221.7	2219.2	2211.4	2210.1
27.5°	2211.4	2206.3	2197.2	2184.3	2175.3	2166.3	2161.1	2153.4	2150.8	2143.1	2141.8
30°	2110.8	2104.4	2086.3	2081.2	2065.7	2056.7	2056.7	2046.4	2047.7	2042.5	2042.5
32.5°	1952.2	1941.9	1927.7	1917.4	1907.1	1901.9	1901.9	1898.1	1900.7	1900.7	1903.2
35°	1742.1	1727.9	1720.1	1713.7	1713.7	1718.8	1734.3	1738.2	1745.9	1752.4	1757.5
37.5°	1472.5	1471.3	1480.3	1488.0	1507.4	1529.3	1556.4	1579.6	1601.5	1617.0	1632.4
40°	1181.1	1213.4	1239.2	1275.3	1304.9	1347.5	1396.5	1436.4	1473.8	1500.9	1529.3
42.5°	921.9	963.2	1017.4	1070.2	1123.1	1181.1	1245.6	1301.1	1350.1	1387.5	1417.1
45°	718.2	775.0	840.7	907.8	976.1	1048.3	1115.4	1172.1	1223.7	1262.4	1292.0
47.5°	579.0	640.9	715.6	789.2	866.5	942.6	1017.4	1066.4	1108.9	1139.9	1167.0
50°	478.4	544.2	622.8	706.6	784.0	860.1	924.5	972.2	1007.1	1034.1	1050.9
52.5°	399.7	469.4	553.2	637.0	714.3	784.0	842.0	878.1	906.5	925.8	941.3
55°	330.1	397.2	475.8	554.5	630.5	696.3	744.0	771.1	793.0	804.6	813.6
57.5°	269.5	331.4	403.6	475.8	541.6	595.7	633.1	660.2	670.5	679.5	678.2
60°	211.5	269.5	335.3	397.2	453.9	497.7	524.8	540.3	548.0	551.9	549.3
62.5°	166.3	219.2	269.5	323.6	364.9	402.3	428.1	428.1	432.0	433.3	437.1
65°	123.8	163.7	207.6	247.6	281.1	305.6	319.8	323.6	328.8	327.5	324.9
67.5°	91.6	121.2	153.4	183.1	206.3	221.8	232.1	241.1	239.8	237.3	236.0
70°	63.2	82.5	110.9	128.9	145.7	161.2	163.7	165.0	166.3	167.6	165.0
72.5°	43.9	58.0	73.5	89.0	99.3	105.7	112.2	113.5	113.5	113.5	112.2
75°	21.9	29.7	43.9	50.3	59.3	61.9	67.0	67.0	70.9	65.8	64.5
77.5°	19.3	23.2	31.0	36.1	40.0	43.9	45.1	49.0	47.7	45.1	46.4
80°	11.6	14.2	19.3	21.9	27.1	28.4	29.7	31.0	29.7	31.0	31.0
82.5°	9.0	10.3	12.9	12.9	16.8	16.8	18.0	18.0	19.3	19.3	19.3
85°	5.1	9.0	7.7	15.5	10.3	10.3	12.9	15.5	12.9	12.9	15.5
87.5°	5.1	5.1	3.9	5.1	5.1	5.1	6.4	7.7	7.7	9.0	7.7
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: P249397

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2402.3	2402.3	2402.3	2402.3
2.5°	2406.1	2408.7	2404.8	2403.5
5°	2410.0	2410.0	2407.4	2407.4
7.5°	2410.0	2410.0	2406.1	2403.5
10°	2399.7	2399.7	2395.8	2393.2
12.5°	2380.3	2380.3	2379.0	2375.2
15°	2355.8	2355.8	2350.7	2346.8
17.5°	2322.3	2324.9	2318.5	2318.5
20°	2286.2	2284.9	2279.8	2277.2
22.5°	2248.8	2246.2	2244.9	2237.2
25°	2208.8	2206.3	2202.4	2198.5
27.5°	2140.5	2139.2	2135.3	2130.2
30°	2036.0	2034.7	2029.6	2029.6
32.5°	1900.7	1899.4	1894.2	1895.5
35°	1760.1	1765.3	1762.7	1757.5
37.5°	1642.8	1646.6	1649.2	1646.6
40°	1544.8	1556.4	1557.7	1560.3
42.5°	1440.3	1455.8	1461.0	1463.5
45°	1315.2	1329.4	1341.0	1338.5
47.5°	1187.6	1197.9	1208.2	1200.5
50°	1065.1	1071.5	1075.4	1075.4
52.5°	949.0	949.0	947.8	949.0
55°	816.2	816.2	811.1	813.6
57.5°	677.0	679.5	675.7	669.2
60°	548.0	541.6	539.0	535.1
62.5°	426.8	426.8	417.8	429.4
65°	319.8	315.9	312.0	310.7
67.5°	232.1	230.8	226.9	225.7
70°	163.7	158.6	157.3	154.7
72.5°	109.6	109.6	107.0	107.0
75°	67.0	60.6	59.3	60.6
77.5°	46.4	45.1	45.1	43.9
80°	31.0	29.7	32.2	28.4
82.5°	19.3	20.6	19.3	20.6
85°	12.9	15.5	14.2	14.2
87.5°	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)