

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: P244528

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40830 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4232.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

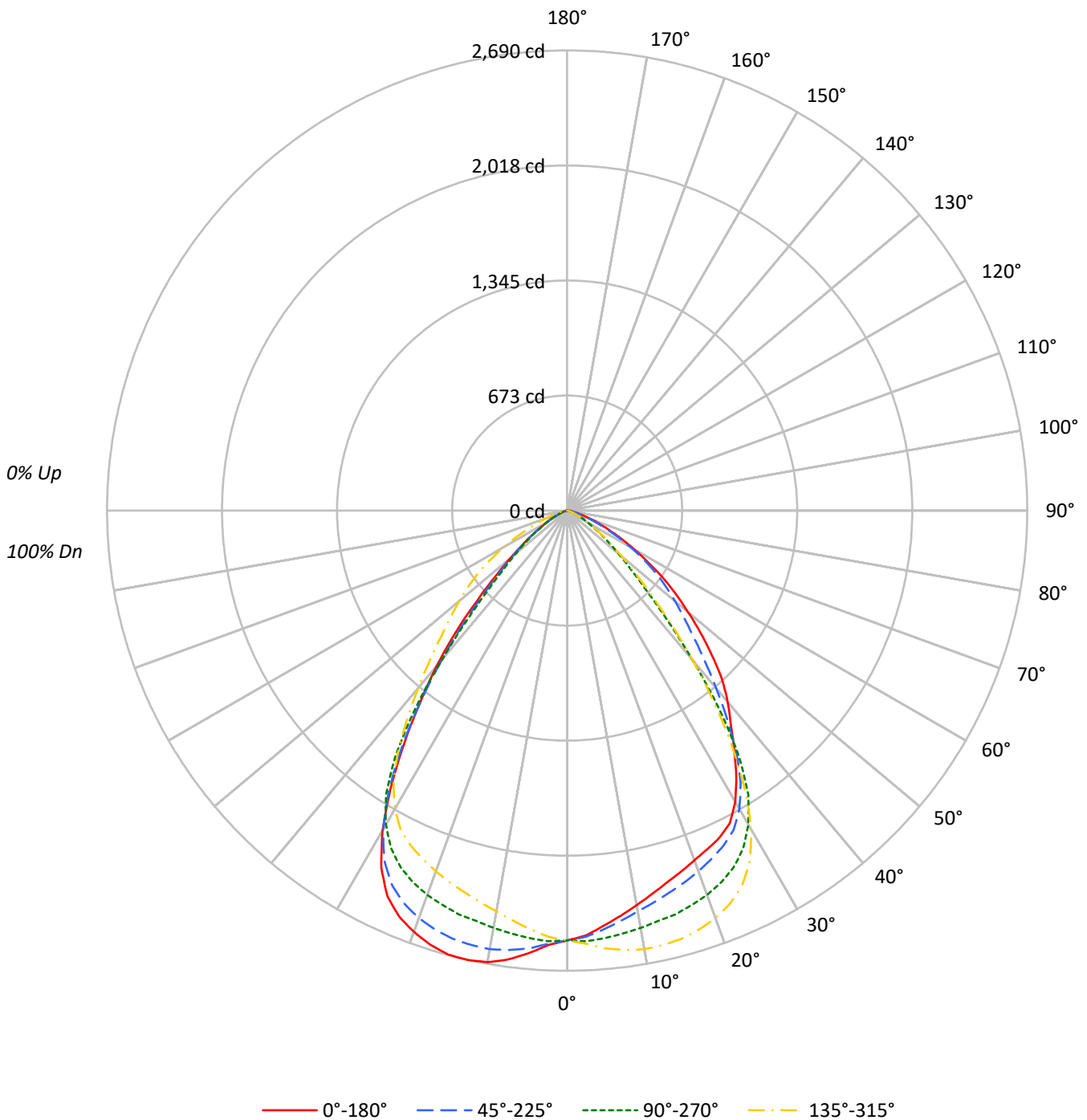
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	77473	77473	77473	77473
5°	75417	77655	80428	77655
10°	73330	77554	83932	77554
15°	71864	78013	85767	78013
20°	71377	78461	85989	78461
25°	71750	78303	84608	78303
30°	69974	75436	76793	75436
35°	64006	65806	62437	65806
40°	58763	45777	47802	45777
45°	52213	27927	32314	27927
50°	44197	18657	20715	18657
55°	36606	12731	13456	12731
60°	27919	8474	8548	8474
65°	19781	5283	4830	5283
70°	14263	3534	3210	3534
75°	9055	1751	1465	1751
80°	6322	1314	1083	1314
85°	5661	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	5.7
10°-20°	692.5	16.4
20°-30°	1048.6	24.8
30°-40°	1050.9	24.8
40°-50°	659.9	15.6
50°-60°	351.7	8.3
60°-70°	144.6	3.4
70°-80°	38.2	0.9
80°-90°	6.5	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°	1980.2	46.8
0°-40°	3031.1	71.6
0°-60°	4042.7	95.5
0°-90°	4232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2512	2512	2512	2512	2512	
5°	2436	2509	2598	2509	2436	230
15°	2251	2444	2687	2444	2251	637
25°	2109	2301	2487	2301	2109	967
35°	1700	1748	1659	1748	1700	1065
45°	1197	640	741	640	1197	921
55°	681	237	250	237	681	607
65°	271	72	66	72	271	281
75°	76	15	12	15	76	86
85°	16	0	1	0	16	18
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2486.7	2484.2	2483.0	2485.4	2486.7	2491.6	2490.3	2492.8	2492.8	2494.0	2496.4
5°	2436.4	2435.1	2436.4	2436.4	2441.3	2446.2	2444.9	2448.6	2451.1	2457.2	2459.6
7.5°	2389.8	2389.8	2388.5	2393.4	2395.9	2403.2	2402.0	2408.1	2411.8	2417.9	2426.5
10°	2341.9	2341.9	2343.1	2346.8	2348.0	2359.1	2359.1	2367.6	2372.5	2378.7	2389.8
12.5°	2295.3	2295.3	2302.7	2300.2	2305.1	2313.7	2317.3	2325.9	2333.3	2345.6	2356.6
15°	2251.1	2251.1	2253.6	2259.7	2263.4	2274.4	2280.5	2290.4	2299.0	2311.2	2327.2
17.5°	2213.1	2211.9	2213.1	2220.4	2227.8	2237.6	2242.5	2254.8	2263.4	2279.3	2294.1
20°	2175.1	2177.5	2177.5	2183.6	2188.5	2200.8	2205.7	2219.2	2229.0	2243.7	2260.9
22.5°	2141.9	2140.7	2140.7	2149.3	2153.0	2164.0	2168.9	2181.2	2192.2	2204.5	2220.4
25°	2108.8	2106.3	2111.3	2112.5	2114.9	2127.2	2130.9	2139.5	2150.5	2161.6	2177.5
27.5°	2059.7	2057.3	2058.5	2063.4	2067.1	2076.9	2079.4	2087.9	2096.5	2106.3	2119.9
30°	1965.2	1962.8	1961.6	1970.2	1973.9	1981.2	1984.9	1999.6	2002.1	2013.1	2022.9
32.5°	1840.1	1838.9	1841.4	1848.7	1852.4	1862.2	1867.1	1875.7	1881.8	1888.0	1897.8
35°	1700.3	1697.8	1700.3	1707.7	1707.7	1716.3	1719.9	1723.6	1722.4	1723.6	1721.2
37.5°	1570.3	1569.0	1570.3	1573.9	1570.3	1573.9	1570.3	1562.9	1549.4	1534.7	1519.9
40°	1459.8	1461.1	1453.7	1458.6	1445.1	1442.7	1429.2	1410.8	1383.8	1354.4	1312.7
42.5°	1342.1	1338.4	1333.5	1335.9	1324.9	1316.3	1294.2	1270.9	1236.6	1187.5	1137.2
45°	1197.3	1196.1	1193.6	1192.4	1185.1	1176.5	1158.0	1131.1	1093.1	1042.8	982.6
47.5°	1056.2	1052.6	1052.6	1053.8	1045.2	1044.0	1029.2	1006.0	972.8	923.7	861.2
50°	921.3	920.1	922.5	927.4	921.3	918.8	909.1	893.1	863.7	821.9	763.0
52.5°	799.8	798.6	801.1	807.2	804.7	807.2	797.4	785.1	765.5	725.0	673.5
55°	680.9	680.9	680.9	688.2	688.2	688.2	683.3	676.0	657.5	628.1	580.3
57.5°	557.0	558.2	565.5	566.8	565.5	568.0	566.8	559.4	547.2	526.3	489.5
60°	452.7	452.7	456.4	460.1	458.8	460.1	460.1	456.4	444.1	426.9	397.5
62.5°	358.2	361.9	359.4	361.9	366.8	361.9	359.4	357.0	348.4	337.4	312.8
65°	271.1	273.6	273.6	274.8	272.3	273.6	268.7	265.0	260.1	247.8	231.9
67.5°	206.1	206.1	206.1	206.1	204.9	203.6	202.4	198.7	190.2	185.3	168.0
70°	158.2	150.9	150.9	150.9	150.9	152.1	148.5	143.6	141.1	132.5	120.2
72.5°	105.5	108.0	105.5	105.5	103.1	104.3	99.4	96.9	94.5	89.6	82.2
75°	76.0	69.9	72.4	73.6	69.9	72.4	67.5	62.6	62.6	58.9	55.2
77.5°	49.1	47.9	49.1	50.3	49.1	47.9	45.4	42.9	42.9	41.7	38.0
80°	35.6	34.3	34.3	34.3	33.1	34.3	31.9	31.9	29.4	28.2	25.8
82.5°	23.3	23.3	22.1	23.3	22.1	23.3	19.6	19.6	19.6	18.4	16.0
85°	16.0	13.5	13.5	14.7	12.3	14.7	13.5	12.3	11.1	11.1	9.8
87.5°	7.4	8.6	7.4	8.6	7.4	7.4	8.6	7.4	7.4	4.9	4.9
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2500.1	2501.3	2501.3	2506.3	2508.7	2509.9	2509.9	2519.8	2516.1	2518.6	2521.0
5°	2464.6	2471.9	2474.4	2474.4	2487.9	2492.8	2497.7	2508.7	2509.9	2517.3	2525.9
7.5°	2430.2	2438.8	2443.7	2454.7	2463.3	2471.9	2486.7	2494.0	2501.3	2511.2	2522.2
10°	2397.1	2406.9	2416.7	2425.3	2438.8	2449.8	2459.6	2476.8	2485.4	2498.9	2513.6
12.5°	2365.2	2378.7	2387.3	2402.0	2416.7	2426.5	2441.3	2457.2	2470.7	2484.2	2501.3
15°	2337.0	2352.9	2362.7	2378.7	2394.7	2408.1	2424.1	2443.7	2453.5	2469.5	2485.4
17.5°	2306.3	2323.5	2335.8	2350.5	2370.1	2384.8	2398.3	2417.9	2430.2	2447.4	2465.8
20°	2274.4	2291.6	2306.3	2321.0	2340.7	2355.4	2371.3	2391.0	2404.4	2421.6	2436.4
22.5°	2236.4	2252.4	2268.3	2285.4	2305.1	2317.3	2335.8	2352.9	2367.6	2383.6	2398.3
25°	2187.3	2207.0	2219.2	2235.1	2251.1	2264.6	2284.2	2301.4	2313.7	2328.4	2341.9
27.5°	2129.7	2144.4	2154.2	2167.7	2183.6	2195.9	2210.6	2227.8	2240.1	2253.6	2263.4
30°	2031.5	2045.0	2053.6	2063.4	2079.4	2090.4	2102.7	2118.6	2127.2	2137.0	2145.6
32.5°	1902.7	1913.7	1918.6	1926.0	1937.1	1948.1	1957.9	1971.4	1975.1	1981.2	1981.2
35°	1716.3	1718.7	1717.5	1719.9	1724.8	1731.0	1739.5	1748.1	1753.0	1753.0	1749.4
37.5°	1497.9	1483.2	1467.2	1454.9	1451.3	1448.8	1453.7	1457.4	1462.3	1464.7	1458.6
40°	1270.9	1237.8	1202.2	1170.3	1148.2	1138.4	1134.8	1137.2	1137.2	1145.8	1145.8
42.5°	1075.9	1024.3	971.6	923.7	891.8	867.3	856.3	856.3	857.5	863.7	867.3
45°	914.0	848.9	787.6	734.8	690.7	658.8	644.1	640.4	639.2	641.6	650.2
47.5°	790.0	722.6	658.8	593.8	547.2	515.2	501.8	496.8	491.9	496.8	498.1
50°	693.1	623.2	555.7	490.7	441.6	413.4	396.2	388.9	387.6	387.6	390.1
52.5°	604.8	539.8	472.3	406.1	354.5	327.6	311.6	307.9	303.0	307.9	307.9
55°	521.4	456.4	390.1	327.6	284.6	256.4	241.7	236.8	234.3	238.0	238.0
57.5°	430.6	375.4	314.1	257.6	214.7	195.1	184.0	177.9	176.6	179.1	176.6
60°	353.3	306.7	253.9	202.4	169.3	148.5	139.9	137.4	134.9	137.4	137.4
62.5°	279.7	240.5	197.5	158.2	130.0	115.3	105.5	105.5	104.3	104.3	105.5
65°	207.3	176.6	146.0	112.9	90.8	79.7	72.4	72.4	71.1	72.4	71.1
67.5°	150.9	130.0	105.5	82.2	65.0	58.9	54.0	50.3	52.8	50.3	49.1
70°	110.4	93.2	76.0	62.6	50.3	44.2	40.5	39.2	36.8	36.8	36.8
72.5°	73.6	62.6	51.5	40.5	33.1	27.0	25.8	23.3	20.9	22.1	24.5
75°	49.1	41.7	36.8	29.4	22.1	22.1	14.7	14.7	12.3	14.7	11.1
77.5°	34.3	28.2	22.1	18.4	14.7	13.5	9.8	9.8	8.6	8.6	8.6
80°	24.5	20.9	16.0	13.5	9.8	9.8	8.6	7.4	6.1	6.1	7.4
82.5°	14.7	11.1	11.1	9.8	6.1	4.9	3.7	4.9	2.5	2.5	2.5
85°	8.6	7.4	6.1	3.7	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	4.9	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2527.1	2525.9	2528.4	2528.4	2535.7	2534.5	2538.2	2538.2	2535.7	2536.9	2541.8
5°	2535.7	2539.4	2546.7	2552.9	2563.9	2568.9	2575.0	2581.1	2582.3	2586.0	2589.7
7.5°	2535.7	2548.0	2556.6	2567.6	2582.3	2590.9	2604.4	2615.5	2620.4	2626.5	2633.8
10°	2530.8	2543.1	2559.0	2571.3	2589.7	2603.2	2616.7	2633.8	2641.2	2651.0	2660.9
12.5°	2521.0	2534.5	2551.6	2567.6	2588.4	2600.7	2617.9	2633.8	2644.9	2658.4	2669.4
15°	2506.3	2522.2	2538.2	2554.1	2576.2	2590.9	2606.9	2625.3	2636.3	2651.0	2660.9
17.5°	2483.0	2500.1	2514.9	2529.6	2550.4	2567.6	2582.3	2599.5	2610.6	2622.8	2636.3
20°	2454.7	2470.7	2486.7	2498.9	2519.8	2534.5	2550.4	2566.4	2575.0	2577.4	2598.3
22.5°	2419.2	2430.2	2442.5	2462.1	2474.4	2487.9	2502.6	2517.3	2525.9	2539.4	2546.7
25°	2360.3	2371.3	2384.8	2393.4	2408.1	2419.2	2433.9	2449.8	2454.7	2464.6	2471.9
27.5°	2278.1	2284.2	2290.4	2297.7	2306.3	2312.4	2321.0	2328.4	2333.3	2338.2	2343.1
30°	2148.0	2148.0	2148.0	2143.1	2146.8	2150.5	2151.7	2150.5	2150.5	2149.3	2149.3
32.5°	1976.3	1966.5	1955.5	1945.7	1942.0	1937.1	1934.6	1930.9	1924.8	1921.1	1922.3
35°	1744.4	1722.4	1708.9	1696.6	1686.8	1679.4	1675.8	1672.1	1670.9	1666.0	1661.0
37.5°	1454.9	1439.0	1429.2	1421.8	1413.2	1405.9	1407.1	1408.3	1412.0	1409.6	1410.8
40°	1148.2	1144.6	1148.2	1139.7	1137.2	1139.7	1145.8	1154.4	1159.3	1164.2	1172.8
42.5°	873.5	879.6	888.2	888.2	891.8	896.8	904.1	917.6	925.0	933.5	943.4
45°	657.5	664.9	676.0	679.6	682.1	688.2	696.8	707.8	712.7	720.1	728.7
47.5°	506.7	511.6	517.7	523.8	529.9	532.4	541.0	541.0	547.2	552.1	554.5
50°	395.0	399.9	404.8	408.5	411.0	414.7	417.1	420.8	422.0	424.5	425.7
52.5°	309.1	315.3	315.3	317.7	321.4	325.1	323.9	325.1	326.3	326.3	330.0
55°	241.7	241.7	245.4	245.4	247.8	246.6	247.8	247.8	247.8	247.8	249.0
57.5°	180.3	181.6	185.3	182.8	181.6	184.0	181.6	184.0	182.8	185.3	181.6
60°	138.6	138.6	139.9	139.9	141.1	141.1	141.1	139.9	139.9	138.6	138.6
62.5°	104.3	105.5	106.7	105.5	105.5	105.5	104.3	104.3	103.1	101.8	101.8
65°	69.9	68.7	71.1	68.7	69.9	69.9	68.7	69.9	66.2	67.5	66.2
67.5°	50.3	49.1	47.9	49.1	47.9	46.6	46.6	47.9	49.1	45.4	45.4
70°	33.1	34.3	33.1	34.3	35.6	35.6	34.3	33.1	34.3	31.9	33.1
72.5°	20.9	20.9	20.9	20.9	20.9	22.1	22.1	22.1	19.6	19.6	18.4
75°	9.8	13.5	11.1	9.8	13.5	13.5	12.3	12.3	11.1	11.1	11.1
77.5°	9.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.1	7.4	6.1
80°	4.9	4.9	4.9	3.7	4.9	4.9	6.1	4.9	4.9	3.7	6.1
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P244528

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2540.6	2539.4	2540.6	2541.8	2540.6	2539.4	2540.6	2541.8	2536.9	2535.7	2538.2
5°	2594.6	2594.6	2597.0	2598.3	2597.0	2594.6	2594.6	2589.7	2586.0	2582.3	2581.1
7.5°	2641.2	2643.7	2646.1	2647.3	2646.1	2643.7	2641.2	2633.8	2626.5	2620.4	2615.5
10°	2669.4	2673.1	2678.0	2680.5	2678.0	2673.1	2669.4	2660.9	2651.0	2641.2	2633.8
12.5°	2681.7	2685.4	2691.5	2690.3	2691.5	2685.4	2681.7	2669.4	2658.4	2644.9	2633.8
15°	2673.1	2678.0	2684.1	2686.6	2684.1	2678.0	2673.1	2660.9	2651.0	2636.3	2625.3
17.5°	2646.1	2653.5	2657.2	2660.9	2657.2	2653.5	2646.1	2636.3	2622.8	2610.6	2599.5
20°	2609.3	2614.3	2619.1	2620.4	2619.1	2614.3	2609.3	2598.3	2577.4	2575.0	2566.4
22.5°	2556.6	2560.3	2571.3	2567.6	2571.3	2560.3	2556.6	2546.7	2539.4	2525.9	2517.3
25°	2480.5	2484.2	2485.4	2486.7	2485.4	2484.2	2480.5	2471.9	2464.6	2454.7	2449.8
27.5°	2349.3	2349.3	2351.7	2352.9	2351.7	2349.3	2349.3	2343.1	2338.2	2333.3	2328.4
30°	2150.5	2150.5	2150.5	2156.7	2150.5	2150.5	2150.5	2149.3	2149.3	2150.5	2150.5
32.5°	1921.1	1918.6	1916.2	1918.6	1916.2	1918.6	1921.1	1922.3	1921.1	1924.8	1930.9
35°	1661.0	1659.8	1663.5	1658.6	1663.5	1659.8	1661.0	1661.0	1666.0	1670.9	1672.1
37.5°	1412.0	1409.6	1414.5	1409.6	1414.5	1409.6	1412.0	1410.8	1409.6	1412.0	1408.3
40°	1175.3	1177.7	1177.7	1187.5	1177.7	1177.7	1175.3	1172.8	1164.2	1159.3	1154.4
42.5°	948.3	955.7	953.2	960.6	953.2	955.7	948.3	943.4	933.5	925.0	917.6
45°	733.6	738.5	738.5	741.0	738.5	738.5	733.6	728.7	720.1	712.7	707.8
47.5°	563.1	563.1	563.1	564.3	563.1	563.1	563.1	554.5	552.1	547.2	541.0
50°	428.1	429.4	430.6	431.8	430.6	429.4	428.1	425.7	424.5	422.0	420.8
52.5°	328.8	330.0	327.6	330.0	327.6	330.0	328.8	330.0	326.3	326.3	325.1
55°	249.0	247.8	249.0	250.3	249.0	247.8	249.0	249.0	247.8	247.8	247.8
57.5°	182.8	180.3	180.3	180.3	180.3	180.3	182.8	181.6	185.3	182.8	184.0
60°	136.2	137.4	137.4	138.6	137.4	137.4	136.2	138.6	138.6	139.9	139.9
62.5°	100.6	104.3	101.8	104.3	101.8	104.3	100.6	101.8	101.8	103.1	104.3
65°	65.0	65.0	65.0	66.2	65.0	65.0	65.0	66.2	67.5	66.2	69.9
67.5°	44.2	45.4	47.9	46.6	47.9	45.4	44.2	45.4	45.4	49.1	47.9
70°	35.6	31.9	31.9	35.6	31.9	31.9	35.6	33.1	31.9	34.3	33.1
72.5°	20.9	18.4	20.9	20.9	20.9	18.4	20.9	18.4	19.6	19.6	22.1
75°	11.1	9.8	8.6	12.3	8.6	9.8	11.1	11.1	11.1	11.1	12.3
77.5°	7.4	6.1	8.6	8.6	8.6	6.1	7.4	6.1	7.4	6.1	7.4
80°	3.7	4.9	3.7	6.1	3.7	4.9	3.7	6.1	3.7	4.9	4.9
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
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: P244528

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2538.2	2534.5	2535.7	2528.4	2528.4	2525.9	2527.1	2521.0	2518.6	2516.1	2519.8
5°	2575.0	2568.9	2563.9	2552.9	2546.7	2539.4	2535.7	2525.9	2517.3	2509.9	2508.7
7.5°	2604.4	2590.9	2582.3	2567.6	2556.6	2548.0	2535.7	2522.2	2511.2	2501.3	2494.0
10°	2616.7	2603.2	2589.7	2571.3	2559.0	2543.1	2530.8	2513.6	2498.9	2485.4	2476.8
12.5°	2617.9	2600.7	2588.4	2567.6	2551.6	2534.5	2521.0	2501.3	2484.2	2470.7	2457.2
15°	2606.9	2590.9	2576.2	2554.1	2538.2	2522.2	2506.3	2485.4	2469.5	2453.5	2443.7
17.5°	2582.3	2567.6	2550.4	2529.6	2514.9	2500.1	2483.0	2465.8	2447.4	2430.2	2417.9
20°	2550.4	2534.5	2519.8	2498.9	2486.7	2470.7	2454.7	2436.4	2421.6	2404.4	2391.0
22.5°	2502.6	2487.9	2474.4	2462.1	2442.5	2430.2	2419.2	2398.3	2383.6	2367.6	2352.9
25°	2433.9	2419.2	2408.1	2393.4	2384.8	2371.3	2360.3	2341.9	2328.4	2313.7	2301.4
27.5°	2321.0	2312.4	2306.3	2297.7	2290.4	2284.2	2278.1	2263.4	2253.6	2240.1	2227.8
30°	2151.7	2150.5	2146.8	2143.1	2148.0	2148.0	2148.0	2145.6	2137.0	2127.2	2118.6
32.5°	1934.6	1937.1	1942.0	1945.7	1955.5	1966.5	1976.3	1981.2	1981.2	1975.1	1971.4
35°	1675.8	1679.4	1686.8	1696.6	1708.9	1722.4	1744.4	1749.4	1753.0	1753.0	1748.1
37.5°	1407.1	1405.9	1413.2	1421.8	1429.2	1439.0	1454.9	1458.6	1464.7	1462.3	1457.4
40°	1145.8	1139.7	1137.2	1139.7	1148.2	1144.6	1148.2	1145.8	1145.8	1137.2	1137.2
42.5°	904.1	896.8	891.8	888.2	888.2	879.6	873.5	867.3	863.7	857.5	856.3
45°	696.8	688.2	682.1	679.6	676.0	664.9	657.5	650.2	641.6	639.2	640.4
47.5°	541.0	532.4	529.9	523.8	517.7	511.6	506.7	498.1	496.8	491.9	496.8
50°	417.1	414.7	411.0	408.5	404.8	399.9	395.0	390.1	387.6	387.6	388.9
52.5°	323.9	325.1	321.4	317.7	315.3	315.3	309.1	307.9	307.9	303.0	307.9
55°	247.8	246.6	247.8	245.4	245.4	241.7	241.7	238.0	238.0	234.3	236.8
57.5°	181.6	184.0	181.6	182.8	185.3	181.6	180.3	176.6	179.1	176.6	177.9
60°	141.1	141.1	141.1	139.9	139.9	138.6	138.6	137.4	137.4	134.9	137.4
62.5°	104.3	105.5	105.5	105.5	106.7	105.5	104.3	105.5	104.3	104.3	105.5
65°	68.7	69.9	69.9	68.7	71.1	68.7	69.9	71.1	72.4	71.1	72.4
67.5°	46.6	46.6	47.9	49.1	47.9	49.1	50.3	49.1	50.3	52.8	50.3
70°	34.3	35.6	35.6	34.3	33.1	34.3	33.1	36.8	36.8	36.8	39.2
72.5°	22.1	22.1	20.9	20.9	20.9	20.9	20.9	24.5	22.1	20.9	23.3
75°	12.3	13.5	13.5	9.8	11.1	13.5	9.8	11.1	14.7	12.3	14.7
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	9.8	8.6	8.6	8.6	9.8
80°	6.1	4.9	4.9	3.7	4.9	4.9	4.9	7.4	6.1	6.1	7.4
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
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: P244528

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2509.9	2509.9	2508.7	2506.3	2501.3	2501.3	2500.1	2496.4	2494.0	2492.8	2492.8
5°	2497.7	2492.8	2487.9	2474.4	2474.4	2471.9	2464.6	2459.6	2457.2	2451.1	2448.6
7.5°	2486.7	2471.9	2463.3	2454.7	2443.7	2438.8	2430.2	2426.5	2417.9	2411.8	2408.1
10°	2459.6	2449.8	2438.8	2425.3	2416.7	2406.9	2397.1	2389.8	2378.7	2372.5	2367.6
12.5°	2441.3	2426.5	2416.7	2402.0	2387.3	2378.7	2365.2	2356.6	2345.6	2333.3	2325.9
15°	2424.1	2408.1	2394.7	2378.7	2362.7	2352.9	2337.0	2327.2	2311.2	2299.0	2290.4
17.5°	2398.3	2384.8	2370.1	2350.5	2335.8	2323.5	2306.3	2294.1	2279.3	2263.4	2254.8
20°	2371.3	2355.4	2340.7	2321.0	2306.3	2291.6	2274.4	2260.9	2243.7	2229.0	2219.2
22.5°	2335.8	2317.3	2305.1	2285.4	2268.3	2252.4	2236.4	2220.4	2204.5	2192.2	2181.2
25°	2284.2	2264.6	2251.1	2235.1	2219.2	2207.0	2187.3	2177.5	2161.6	2150.5	2139.5
27.5°	2210.6	2195.9	2183.6	2167.7	2154.2	2144.4	2129.7	2119.9	2106.3	2096.5	2087.9
30°	2102.7	2090.4	2079.4	2063.4	2053.6	2045.0	2031.5	2022.9	2013.1	2002.1	1999.6
32.5°	1957.9	1948.1	1937.1	1926.0	1918.6	1913.7	1902.7	1897.8	1888.0	1881.8	1875.7
35°	1739.5	1731.0	1724.8	1719.9	1717.5	1718.7	1716.3	1721.2	1723.6	1722.4	1723.6
37.5°	1453.7	1448.8	1451.3	1454.9	1467.2	1483.2	1497.9	1519.9	1534.7	1549.4	1562.9
40°	1134.8	1138.4	1148.2	1170.3	1202.2	1237.8	1270.9	1312.7	1354.4	1383.8	1410.8
42.5°	856.3	867.3	891.8	923.7	971.6	1024.3	1075.9	1137.2	1187.5	1236.6	1270.9
45°	644.1	658.8	690.7	734.8	787.6	848.9	914.0	982.6	1042.8	1093.1	1131.1
47.5°	501.8	515.2	547.2	593.8	658.8	722.6	790.0	861.2	923.7	972.8	1006.0
50°	396.2	413.4	441.6	490.7	555.7	623.2	693.1	763.0	821.9	863.7	893.1
52.5°	311.6	327.6	354.5	406.1	472.3	539.8	604.8	673.5	725.0	765.5	785.1
55°	241.7	256.4	284.6	327.6	390.1	456.4	521.4	580.3	628.1	657.5	676.0
57.5°	184.0	195.1	214.7	257.6	314.1	375.4	430.6	489.5	526.3	547.2	559.4
60°	139.9	148.5	169.3	202.4	253.9	306.7	353.3	397.5	426.9	444.1	456.4
62.5°	105.5	115.3	130.0	158.2	197.5	240.5	279.7	312.8	337.4	348.4	357.0
65°	72.4	79.7	90.8	112.9	146.0	176.6	207.3	231.9	247.8	260.1	265.0
67.5°	54.0	58.9	65.0	82.2	105.5	130.0	150.9	168.0	185.3	190.2	198.7
70°	40.5	44.2	50.3	62.6	76.0	93.2	110.4	120.2	132.5	141.1	143.6
72.5°	25.8	27.0	33.1	40.5	51.5	62.6	73.6	82.2	89.6	94.5	96.9
75°	14.7	22.1	22.1	29.4	36.8	41.7	49.1	55.2	58.9	62.6	62.6
77.5°	9.8	13.5	14.7	18.4	22.1	28.2	34.3	38.0	41.7	42.9	42.9
80°	8.6	9.8	9.8	13.5	16.0	20.9	24.5	25.8	28.2	29.4	31.9
82.5°	3.7	4.9	6.1	9.8	11.1	11.1	14.7	16.0	18.4	19.6	19.6
85°	1.2	2.5	2.5	3.7	6.1	7.4	8.6	9.8	11.1	11.1	12.3
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	4.9	4.9	4.9	7.4	7.4
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: P244528

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2490.3	2491.6	2486.7	2485.4	2483.0	2484.2	2486.7
5°	2444.9	2446.2	2441.3	2436.4	2436.4	2435.1	2436.4
7.5°	2402.0	2403.2	2395.9	2393.4	2388.5	2389.8	2389.8
10°	2359.1	2359.1	2348.0	2346.8	2343.1	2341.9	2341.9
12.5°	2317.3	2313.7	2305.1	2300.2	2302.7	2295.3	2295.3
15°	2280.5	2274.4	2263.4	2259.7	2253.6	2251.1	2251.1
17.5°	2242.5	2237.6	2227.8	2220.4	2213.1	2211.9	2213.1
20°	2205.7	2200.8	2188.5	2183.6	2177.5	2177.5	2175.1
22.5°	2168.9	2164.0	2153.0	2149.3	2140.7	2140.7	2141.9
25°	2130.9	2127.2	2114.9	2112.5	2111.3	2106.3	2108.8
27.5°	2079.4	2076.9	2067.1	2063.4	2058.5	2057.3	2059.7
30°	1984.9	1981.2	1973.9	1970.2	1961.6	1962.8	1965.2
32.5°	1867.1	1862.2	1852.4	1848.7	1841.4	1838.9	1840.1
35°	1719.9	1716.3	1707.7	1707.7	1700.3	1697.8	1700.3
37.5°	1570.3	1573.9	1570.3	1573.9	1570.3	1569.0	1570.3
40°	1429.2	1442.7	1445.1	1458.6	1453.7	1461.1	1459.8
42.5°	1294.2	1316.3	1324.9	1335.9	1333.5	1338.4	1342.1
45°	1158.0	1176.5	1185.1	1192.4	1193.6	1196.1	1197.3
47.5°	1029.2	1044.0	1045.2	1053.8	1052.6	1052.6	1056.2
50°	909.1	918.8	921.3	927.4	922.5	920.1	921.3
52.5°	797.4	807.2	804.7	807.2	801.1	798.6	799.8
55°	683.3	688.2	688.2	688.2	680.9	680.9	680.9
57.5°	566.8	568.0	565.5	566.8	565.5	558.2	557.0
60°	460.1	460.1	458.8	460.1	456.4	452.7	452.7
62.5°	359.4	361.9	366.8	361.9	359.4	361.9	358.2
65°	268.7	273.6	272.3	274.8	273.6	273.6	271.1
67.5°	202.4	203.6	204.9	206.1	206.1	206.1	206.1
70°	148.5	152.1	150.9	150.9	150.9	150.9	158.2
72.5°	99.4	104.3	103.1	105.5	105.5	108.0	105.5
75°	67.5	72.4	69.9	73.6	72.4	69.9	76.0
77.5°	45.4	47.9	49.1	50.3	49.1	47.9	49.1
80°	31.9	34.3	33.1	34.3	34.3	34.3	35.6
82.5°	19.6	23.3	22.1	23.3	22.1	23.3	23.3
85°	13.5	14.7	12.3	14.7	13.5	13.5	16.0
87.5°	8.6	7.4	7.4	8.6	7.4	8.6	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)