

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: P244978

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244978  
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 EC8B40850 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4418.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 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

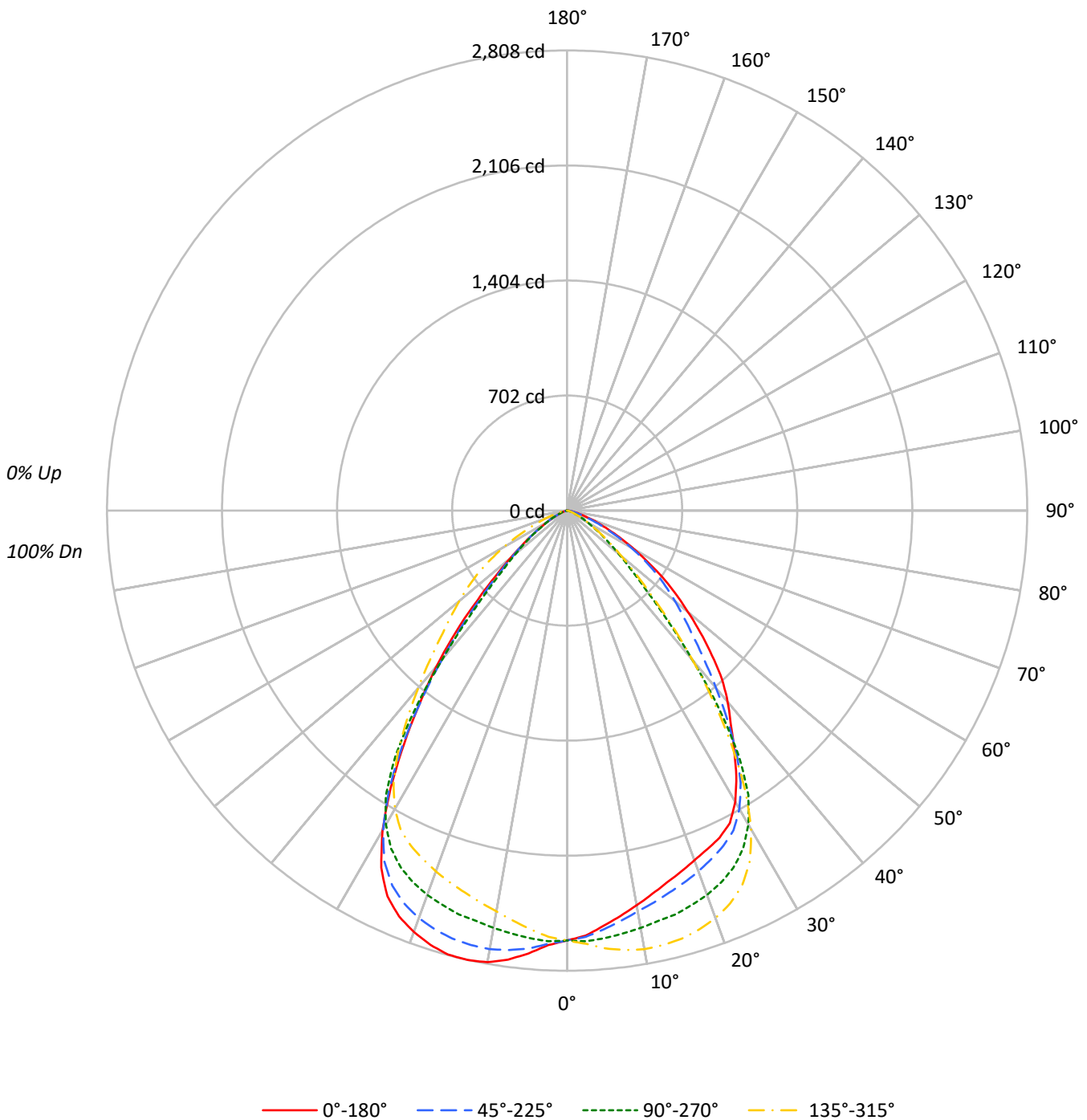
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	80877	80877	80877	80877
5°	78729	81069	83963	81069
10°	76552	80963	87620	80963
15°	75022	81442	89538	81442
20°	74510	81910	89766	81910
25°	74904	81743	88323	81743
30°	73051	78751	80169	78751
35°	66818	68701	65181	68701
40°	61347	47789	49903	47789
45°	54507	29153	33732	29153
50°	46140	19472	21626	19472
55°	38214	13290	14042	13290
60°	29146	8844	8924	8844
65°	20649	5509	5049	5509
70°	14894	3697	3354	3697
75°	9460	1835	1525	1835
80°	6606	1367	1137	1367
85°	5909	0	460	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	5.7
10°-20°	722.9	16.4
20°-30°	1094.7	24.8
30°-40°	1097.1	24.8
40°-50°	688.9	15.6
50°-60°	367.1	8.3
60°-70°	151.0	3.4
70°-80°	39.9	0.9
80°-90°	6.8	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°	2067.2	46.8
0°-40°	3164.3	71.6
0°-60°	4220.4	95.5
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2623	2623	2623	2623	2623	
5°	2543	2619	2712	2619	2543	240
15°	2350	2551	2805	2551	2350	665
25°	2202	2402	2596	2402	2202	1010
35°	1775	1825	1732	1825	1775	1112
45°	1250	668	774	668	1250	961
55°	711	247	261	247	711	634
65°	283	76	69	76	283	294
75°	79	15	13	15	79	90
85°	17	0	1	0	17	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°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2595.9	2593.4	2592.1	2594.7	2595.9	2601.1	2599.8	2602.3	2602.3	2603.6	2606.2
5°	2543.4	2542.1	2543.4	2543.4	2548.6	2553.7	2552.4	2556.2	2558.8	2565.2	2567.7
7.5°	2494.8	2494.8	2493.5	2498.6	2501.2	2508.9	2507.5	2514.0	2517.8	2524.2	2533.2
10°	2444.8	2444.8	2446.1	2449.9	2451.2	2462.7	2462.7	2471.7	2476.8	2483.2	2494.8
12.5°	2396.2	2396.2	2403.9	2401.3	2406.4	2415.3	2419.2	2428.2	2435.9	2448.7	2460.2
15°	2350.0	2350.0	2352.6	2359.0	2362.8	2374.4	2380.8	2391.0	2400.0	2412.8	2429.5
17.5°	2310.3	2309.1	2310.3	2318.0	2325.7	2336.0	2341.1	2353.9	2362.8	2379.5	2394.9
20°	2270.6	2273.2	2273.2	2279.6	2284.7	2297.5	2302.6	2316.8	2327.0	2342.3	2360.3
22.5°	2236.1	2234.8	2234.8	2243.8	2247.6	2259.1	2264.2	2277.0	2288.6	2301.4	2318.0
25°	2201.5	2198.9	2204.1	2205.3	2207.9	2220.7	2224.5	2233.5	2245.0	2256.6	2273.2
27.5°	2150.2	2147.7	2149.0	2154.1	2157.9	2168.2	2170.8	2179.7	2188.7	2198.9	2213.0
30°	2051.6	2049.1	2047.8	2056.8	2060.6	2068.3	2072.1	2087.5	2090.0	2101.6	2111.8
32.5°	1921.0	1919.7	1922.3	1930.0	1933.8	1944.1	1949.2	1958.2	1964.5	1971.0	1981.2
35°	1775.0	1772.4	1775.0	1782.7	1782.7	1791.7	1795.5	1799.3	1798.1	1799.3	1796.8
37.5°	1639.3	1638.0	1639.3	1643.1	1639.3	1643.1	1639.3	1631.6	1617.5	1602.1	1586.7
40°	1524.0	1525.3	1517.6	1522.7	1508.6	1506.1	1492.0	1472.8	1444.6	1413.9	1370.3
42.5°	1401.1	1397.2	1392.1	1394.6	1383.2	1374.1	1351.1	1326.8	1290.9	1239.7	1187.2
45°	1249.9	1248.7	1246.1	1244.8	1237.1	1228.2	1208.9	1180.8	1141.1	1088.6	1025.8
47.5°	1102.7	1098.8	1098.8	1100.1	1091.1	1089.9	1074.5	1050.2	1015.6	964.3	899.0
50°	961.8	960.5	963.1	968.2	961.8	959.2	949.0	932.3	901.6	858.1	796.6
52.5°	835.0	833.7	836.3	842.7	840.1	842.7	832.5	819.6	799.1	756.9	703.1
55°	710.8	710.8	710.8	718.4	718.4	718.4	713.3	705.7	686.4	655.7	605.8
57.5°	581.4	582.7	590.4	591.7	590.4	593.0	591.7	584.0	571.2	549.4	511.0
60°	472.6	472.6	476.4	480.3	479.0	480.3	480.3	476.4	463.6	445.7	415.0
62.5°	374.0	377.8	375.2	377.8	382.9	377.8	375.2	372.7	363.7	352.2	326.6
65°	283.0	285.6	285.6	286.9	284.3	285.6	280.5	276.6	271.5	258.7	242.1
67.5°	215.2	215.2	215.2	215.2	213.9	212.6	211.3	207.5	198.5	193.4	175.4
70°	165.2	157.5	157.5	157.5	157.5	158.8	155.0	149.9	147.3	138.3	125.5
72.5°	110.1	112.7	110.1	110.1	107.6	108.9	103.7	101.2	98.6	93.5	85.8
75°	79.4	73.0	75.5	76.9	73.0	75.5	70.4	65.3	65.3	61.5	57.6
77.5°	51.2	50.0	51.2	52.5	51.2	50.0	47.4	44.8	44.8	43.5	39.7
80°	37.2	35.8	35.8	35.8	34.6	35.8	33.3	33.3	30.7	29.5	26.9
82.5°	24.4	24.4	23.0	24.4	23.0	24.4	20.5	20.5	20.5	19.2	16.7
85°	16.7	14.1	14.1	15.4	12.8	15.4	14.1	12.8	11.5	11.5	10.2
87.5°	7.7	9.0	7.7	9.0	7.7	7.7	9.0	7.7	7.7	5.1	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2610.0	2611.3	2611.3	2616.4	2619.0	2620.2	2620.2	2630.5	2626.7	2629.3	2631.8
5°	2572.9	2580.6	2583.1	2583.1	2597.2	2602.3	2607.4	2619.0	2620.2	2627.9	2636.9
7.5°	2537.0	2546.0	2551.1	2562.6	2571.6	2580.6	2595.9	2603.6	2611.3	2621.6	2633.1
10°	2502.4	2512.7	2522.9	2531.9	2546.0	2557.5	2567.7	2585.7	2594.7	2608.8	2624.1
12.5°	2469.2	2483.2	2492.2	2507.5	2522.9	2533.2	2548.6	2565.2	2579.3	2593.4	2611.3
15°	2439.7	2456.4	2466.6	2483.2	2499.9	2514.0	2530.6	2551.1	2561.4	2578.0	2594.7
17.5°	2407.6	2425.6	2438.4	2453.8	2474.3	2489.6	2503.7	2524.2	2537.0	2554.9	2574.2
20°	2374.4	2392.3	2407.6	2423.0	2443.5	2458.9	2475.5	2496.1	2510.1	2528.0	2543.4
22.5°	2334.7	2351.4	2368.0	2385.9	2406.4	2419.2	2438.4	2456.4	2471.7	2488.4	2503.7
25°	2283.5	2304.0	2316.8	2333.4	2350.0	2364.1	2384.6	2402.5	2415.3	2430.7	2444.8
27.5°	2223.3	2238.6	2248.9	2262.9	2279.6	2292.4	2307.8	2325.7	2338.5	2352.6	2362.8
30°	2120.8	2134.9	2143.9	2154.1	2170.8	2182.3	2195.1	2211.7	2220.7	2231.0	2239.9
32.5°	1986.3	1997.9	2003.0	2010.7	2022.2	2033.7	2044.0	2058.1	2061.9	2068.3	2068.3
35°	1791.7	1794.2	1793.0	1795.5	1800.6	1807.0	1816.0	1825.0	1830.1	1830.1	1826.3
37.5°	1563.7	1548.4	1531.7	1518.9	1515.0	1512.5	1517.6	1521.4	1526.6	1529.1	1522.7
40°	1326.8	1292.2	1255.1	1221.7	1198.7	1188.5	1184.6	1187.2	1187.2	1196.1	1196.1
42.5°	1123.2	1069.4	1014.3	964.3	931.0	905.5	893.9	893.9	895.2	901.6	905.5
45°	954.1	886.2	822.2	767.1	721.0	687.7	672.4	668.5	667.3	669.8	678.7
47.5°	824.8	754.3	687.7	619.9	571.2	537.9	523.8	518.7	513.5	518.7	520.0
50°	723.6	650.6	580.2	512.3	461.0	431.6	413.6	405.9	404.7	404.7	407.3
52.5°	631.4	563.5	493.1	423.9	370.1	342.0	325.3	321.4	316.3	321.4	321.4
55°	544.3	476.4	407.3	342.0	297.1	267.7	252.3	247.2	244.6	248.4	248.4
57.5°	449.5	391.9	327.9	268.9	224.1	203.6	192.1	185.7	184.4	187.0	184.4
60°	368.8	320.2	265.1	211.3	176.7	155.0	146.0	143.4	140.9	143.4	143.4
62.5°	292.0	251.0	206.2	165.2	135.7	120.4	110.1	110.1	108.9	108.9	110.1
65°	216.4	184.4	152.4	117.8	94.8	83.2	75.5	75.5	74.3	75.5	74.3
67.5°	157.5	135.7	110.1	85.8	67.9	61.5	56.4	52.5	55.1	52.5	51.2
70°	115.3	97.3	79.4	65.3	52.5	46.1	42.3	41.0	38.4	38.4	38.4
72.5°	76.9	65.3	53.8	42.3	34.6	28.1	26.9	24.4	21.8	23.0	25.6
75°	51.2	43.5	38.4	30.7	23.0	23.0	15.4	15.4	12.8	15.4	11.5
77.5°	35.8	29.5	23.0	19.2	15.4	14.1	10.2	10.2	9.0	9.0	9.0
80°	25.6	21.8	16.7	14.1	10.2	10.2	9.0	7.7	6.4	6.4	7.7
82.5°	15.4	11.5	11.5	10.2	6.4	5.1	3.8	5.1	2.6	2.6	2.6
85°	9.0	7.7	6.4	3.8	2.6	2.6	1.3	0.0	1.3	1.3	0.0
87.5°	5.1	2.6	2.6	1.3	0.0	1.3	1.3	0.0	0.0	0.0	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2638.2	2636.9	2639.5	2639.5	2647.2	2645.9	2649.7	2649.7	2647.2	2648.4	2653.6
5°	2647.2	2651.0	2658.7	2665.1	2676.6	2681.8	2688.1	2694.6	2695.8	2699.7	2703.5
7.5°	2647.2	2660.0	2669.0	2680.4	2695.8	2704.8	2718.9	2730.4	2735.5	2741.9	2749.6
10°	2642.0	2654.8	2671.5	2684.3	2703.5	2717.6	2731.7	2749.6	2757.3	2767.5	2777.8
12.5°	2631.8	2645.9	2663.8	2680.4	2702.2	2715.0	2732.9	2749.6	2761.1	2775.2	2786.8
15°	2616.4	2633.1	2649.7	2666.4	2689.4	2704.8	2721.5	2740.6	2752.2	2767.5	2777.8
17.5°	2592.1	2610.0	2625.4	2640.7	2662.5	2680.4	2695.8	2713.8	2725.3	2738.1	2752.2
20°	2562.6	2579.3	2595.9	2608.8	2630.5	2645.9	2662.5	2679.2	2688.1	2690.7	2712.5
22.5°	2525.5	2537.0	2549.8	2570.3	2583.1	2597.2	2612.6	2627.9	2636.9	2651.0	2658.7
25°	2464.0	2475.5	2489.6	2498.6	2514.0	2525.5	2540.9	2557.5	2562.6	2572.9	2580.6
27.5°	2378.2	2384.6	2391.0	2398.7	2407.6	2414.1	2423.0	2430.7	2435.9	2441.0	2446.1
30°	2242.4	2242.4	2242.4	2237.3	2241.2	2245.0	2246.3	2245.0	2245.0	2243.8	2243.8
32.5°	2063.2	2052.9	2041.4	2031.2	2027.3	2022.2	2019.6	2015.8	2009.4	2005.5	2006.8
35°	1821.1	1798.1	1784.0	1771.2	1761.0	1753.3	1749.4	1745.6	1744.3	1739.2	1734.0
37.5°	1518.9	1502.2	1492.0	1484.3	1475.4	1467.7	1468.9	1470.2	1474.0	1471.5	1472.8
40°	1198.7	1194.9	1198.7	1189.7	1187.2	1189.7	1196.1	1205.1	1210.3	1215.4	1224.3
42.5°	911.8	918.2	927.2	927.2	931.0	936.2	943.8	958.0	965.6	974.6	984.9
45°	686.4	694.1	705.7	709.5	712.1	718.4	727.5	738.9	744.1	751.8	760.7
47.5°	528.9	534.0	540.4	546.9	553.2	555.8	564.8	564.8	571.2	576.3	578.8
50°	412.4	417.5	422.6	426.5	429.0	432.9	435.4	439.3	440.5	443.1	444.4
52.5°	322.7	329.1	329.1	331.7	335.5	339.4	338.1	339.4	340.6	340.6	344.5
55°	252.3	252.3	256.1	256.1	258.7	257.4	258.7	258.7	258.7	258.7	260.0
57.5°	188.2	189.6	193.4	190.8	189.6	192.1	189.6	192.1	190.8	193.4	189.6
60°	144.7	144.7	146.0	146.0	147.3	147.3	147.3	146.0	146.0	144.7	144.7
62.5°	108.9	110.1	111.4	110.1	110.1	110.1	108.9	108.9	107.6	106.3	106.3
65°	73.0	71.7	74.3	71.7	73.0	73.0	71.7	73.0	69.2	70.4	69.2
67.5°	52.5	51.2	50.0	51.2	50.0	48.7	48.7	50.0	51.2	47.4	47.4
70°	34.6	35.8	34.6	35.8	37.2	37.2	35.8	34.6	35.8	33.3	34.6
72.5°	21.8	21.8	21.8	21.8	21.8	23.0	23.0	23.0	20.5	20.5	19.2
75°	10.2	14.1	11.5	10.2	14.1	14.1	12.8	12.8	11.5	11.5	11.5
77.5°	10.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	7.7	6.4
80°	5.1	5.1	5.1	3.8	5.1	5.1	6.4	5.1	5.1	3.8	6.4
82.5°	2.6	2.6	2.6	0.0	1.3	2.6	2.6	1.3	2.6	2.6	1.3
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: P244978

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2652.3	2651.0	2652.3	2653.6	2652.3	2651.0	2652.3	2653.6	2648.4	2647.2	2649.7
5°	2708.6	2708.6	2711.2	2712.5	2711.2	2708.6	2708.6	2703.5	2699.7	2695.8	2694.6
7.5°	2757.3	2759.9	2762.4	2763.7	2762.4	2759.9	2757.3	2749.6	2741.9	2735.5	2730.4
10°	2786.8	2790.6	2795.7	2798.3	2795.7	2790.6	2786.8	2777.8	2767.5	2757.3	2749.6
12.5°	2799.6	2803.4	2809.8	2808.5	2809.8	2803.4	2799.6	2786.8	2775.2	2761.1	2749.6
15°	2790.6	2795.7	2802.1	2804.7	2802.1	2795.7	2790.6	2777.8	2767.5	2752.2	2740.6
17.5°	2762.4	2770.1	2774.0	2777.8	2774.0	2770.1	2762.4	2752.2	2738.1	2725.3	2713.8
20°	2724.0	2729.2	2734.3	2735.5	2734.3	2729.2	2724.0	2712.5	2690.7	2688.1	2679.2
22.5°	2669.0	2672.8	2684.3	2680.4	2684.3	2672.8	2669.0	2658.7	2651.0	2636.9	2627.9
25°	2589.5	2593.4	2594.7	2595.9	2594.7	2593.4	2589.5	2580.6	2572.9	2562.6	2557.5
27.5°	2452.5	2452.5	2455.0	2456.4	2455.0	2452.5	2452.5	2446.1	2441.0	2435.9	2430.7
30°	2245.0	2245.0	2245.0	2251.5	2245.0	2245.0	2245.0	2243.8	2243.8	2245.0	2245.0
32.5°	2005.5	2003.0	2000.4	2003.0	2000.4	2003.0	2005.5	2006.8	2005.5	2009.4	2015.8
35°	1734.0	1732.8	1736.6	1731.5	1736.6	1732.8	1734.0	1734.0	1739.2	1744.3	1745.6
37.5°	1474.0	1471.5	1476.6	1471.5	1476.6	1471.5	1474.0	1472.8	1471.5	1474.0	1470.2
40°	1226.9	1229.4	1229.4	1239.7	1229.4	1229.4	1226.9	1224.3	1215.4	1210.3	1205.1
42.5°	990.0	997.7	995.1	1002.8	995.1	997.7	990.0	984.9	974.6	965.6	958.0
45°	765.8	771.0	771.0	773.5	771.0	771.0	765.8	760.7	751.8	744.1	738.9
47.5°	587.8	587.8	587.8	589.1	587.8	587.8	587.8	578.8	576.3	571.2	564.8
50°	447.0	448.2	449.5	450.8	449.5	448.2	447.0	444.4	443.1	440.5	439.3
52.5°	343.2	344.5	342.0	344.5	342.0	344.5	343.2	344.5	340.6	340.6	339.4
55°	260.0	258.7	260.0	261.2	260.0	258.7	260.0	260.0	258.7	258.7	258.7
57.5°	190.8	188.2	188.2	188.2	188.2	188.2	190.8	189.6	193.4	190.8	192.1
60°	142.2	143.4	143.4	144.7	143.4	143.4	142.2	144.7	144.7	146.0	146.0
62.5°	105.0	108.9	106.3	108.9	106.3	108.9	105.0	106.3	106.3	107.6	108.9
65°	67.9	67.9	67.9	69.2	67.9	67.9	67.9	69.2	70.4	69.2	73.0
67.5°	46.1	47.4	50.0	48.7	50.0	47.4	46.1	47.4	47.4	51.2	50.0
70°	37.2	33.3	33.3	37.2	33.3	33.3	37.2	34.6	33.3	35.8	34.6
72.5°	21.8	19.2	21.8	21.8	21.8	19.2	21.8	19.2	20.5	20.5	23.0
75°	11.5	10.2	9.0	12.8	9.0	10.2	11.5	11.5	11.5	11.5	12.8
77.5°	7.7	6.4	9.0	9.0	9.0	6.4	7.7	6.4	7.7	6.4	7.7
80°	3.8	5.1	3.8	6.4	3.8	5.1	3.8	6.4	3.8	5.1	5.1
82.5°	1.3	2.6	2.6	2.6	2.6	2.6	1.3	1.3	2.6	2.6	1.3
85°	0.0	2.6	1.3	1.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P244978

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2649.7	2645.9	2647.2	2639.5	2639.5	2636.9	2638.2	2631.8	2629.3	2626.7	2630.5
5°	2688.1	2681.8	2676.6	2665.1	2658.7	2651.0	2647.2	2636.9	2627.9	2620.2	2619.0
7.5°	2718.9	2704.8	2695.8	2680.4	2669.0	2660.0	2647.2	2633.1	2621.6	2611.3	2603.6
10°	2731.7	2717.6	2703.5	2684.3	2671.5	2654.8	2642.0	2624.1	2608.8	2594.7	2585.7
12.5°	2732.9	2715.0	2702.2	2680.4	2663.8	2645.9	2631.8	2611.3	2593.4	2579.3	2565.2
15°	2721.5	2704.8	2689.4	2666.4	2649.7	2633.1	2616.4	2594.7	2578.0	2561.4	2551.1
17.5°	2695.8	2680.4	2662.5	2640.7	2625.4	2610.0	2592.1	2574.2	2554.9	2537.0	2524.2
20°	2662.5	2645.9	2630.5	2608.8	2595.9	2579.3	2562.6	2543.4	2528.0	2510.1	2496.1
22.5°	2612.6	2597.2	2583.1	2570.3	2549.8	2537.0	2525.5	2503.7	2488.4	2471.7	2456.4
25°	2540.9	2525.5	2514.0	2498.6	2489.6	2475.5	2464.0	2444.8	2430.7	2415.3	2402.5
27.5°	2423.0	2414.1	2407.6	2398.7	2391.0	2384.6	2378.2	2362.8	2352.6	2338.5	2325.7
30°	2246.3	2245.0	2241.2	2237.3	2242.4	2242.4	2242.4	2239.9	2231.0	2220.7	2211.7
32.5°	2019.6	2022.2	2027.3	2031.2	2041.4	2052.9	2063.2	2068.3	2068.3	2061.9	2058.1
35°	1749.4	1753.3	1761.0	1771.2	1784.0	1798.1	1821.1	1826.3	1830.1	1830.1	1825.0
37.5°	1468.9	1467.7	1475.4	1484.3	1492.0	1502.2	1518.9	1522.7	1529.1	1526.6	1521.4
40°	1196.1	1189.7	1187.2	1189.7	1198.7	1194.9	1198.7	1196.1	1196.1	1187.2	1187.2
42.5°	943.8	936.2	931.0	927.2	927.2	918.2	911.8	905.5	901.6	895.2	893.9
45°	727.5	718.4	712.1	709.5	705.7	694.1	686.4	678.7	669.8	667.3	668.5
47.5°	564.8	555.8	553.2	546.9	540.4	534.0	528.9	520.0	518.7	513.5	518.7
50°	435.4	432.9	429.0	426.5	422.6	417.5	412.4	407.3	404.7	404.7	405.9
52.5°	338.1	339.4	335.5	331.7	329.1	329.1	322.7	321.4	321.4	316.3	321.4
55°	258.7	257.4	258.7	256.1	256.1	252.3	252.3	248.4	248.4	244.6	247.2
57.5°	189.6	192.1	189.6	190.8	193.4	189.6	188.2	184.4	187.0	184.4	185.7
60°	147.3	147.3	147.3	146.0	146.0	144.7	144.7	143.4	143.4	140.9	143.4
62.5°	108.9	110.1	110.1	110.1	111.4	110.1	108.9	110.1	108.9	108.9	110.1
65°	71.7	73.0	73.0	71.7	74.3	71.7	73.0	74.3	75.5	74.3	75.5
67.5°	48.7	48.7	50.0	51.2	50.0	51.2	52.5	51.2	52.5	55.1	52.5
70°	35.8	37.2	37.2	35.8	34.6	35.8	34.6	38.4	38.4	38.4	41.0
72.5°	23.0	23.0	21.8	21.8	21.8	21.8	21.8	25.6	23.0	21.8	24.4
75°	12.8	14.1	14.1	10.2	11.5	14.1	10.2	11.5	15.4	12.8	15.4
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	10.2	9.0	9.0	9.0	10.2
80°	6.4	5.1	5.1	3.8	5.1	5.1	5.1	7.7	6.4	6.4	7.7
82.5°	2.6	2.6	1.3	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P244978

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2620.2	2620.2	2619.0	2616.4	2611.3	2611.3	2610.0	2606.2	2603.6	2602.3	2602.3
5°	2607.4	2602.3	2597.2	2583.1	2583.1	2580.6	2572.9	2567.7	2565.2	2558.8	2556.2
7.5°	2595.9	2580.6	2571.6	2562.6	2551.1	2546.0	2537.0	2533.2	2524.2	2517.8	2514.0
10°	2567.7	2557.5	2546.0	2531.9	2522.9	2512.7	2502.4	2494.8	2483.2	2476.8	2471.7
12.5°	2548.6	2533.2	2522.9	2507.5	2492.2	2483.2	2469.2	2460.2	2448.7	2435.9	2428.2
15°	2530.6	2514.0	2499.9	2483.2	2466.6	2456.4	2439.7	2429.5	2412.8	2400.0	2391.0
17.5°	2503.7	2489.6	2474.3	2453.8	2438.4	2425.6	2407.6	2394.9	2379.5	2362.8	2353.9
20°	2475.5	2458.9	2443.5	2423.0	2407.6	2392.3	2374.4	2360.3	2342.3	2327.0	2316.8
22.5°	2438.4	2419.2	2406.4	2385.9	2368.0	2351.4	2334.7	2318.0	2301.4	2288.6	2277.0
25°	2384.6	2364.1	2350.0	2333.4	2316.8	2304.0	2283.5	2273.2	2256.6	2245.0	2233.5
27.5°	2307.8	2292.4	2279.6	2262.9	2248.9	2238.6	2223.3	2213.0	2198.9	2188.7	2179.7
30°	2195.1	2182.3	2170.8	2154.1	2143.9	2134.9	2120.8	2111.8	2101.6	2090.0	2087.5
32.5°	2044.0	2033.7	2022.2	2010.7	2003.0	1997.9	1986.3	1981.2	1971.0	1964.5	1958.2
35°	1816.0	1807.0	1800.6	1795.5	1793.0	1794.2	1791.7	1796.8	1799.3	1798.1	1799.3
37.5°	1517.6	1512.5	1515.0	1518.9	1531.7	1548.4	1563.7	1586.7	1602.1	1617.5	1631.6
40°	1184.6	1188.5	1198.7	1221.7	1255.1	1292.2	1326.8	1370.3	1413.9	1444.6	1472.8
42.5°	893.9	905.5	931.0	964.3	1014.3	1069.4	1123.2	1187.2	1239.7	1290.9	1326.8
45°	672.4	687.7	721.0	767.1	822.2	886.2	954.1	1025.8	1088.6	1141.1	1180.8
47.5°	523.8	537.9	571.2	619.9	687.7	754.3	824.8	899.0	964.3	1015.6	1050.2
50°	413.6	431.6	461.0	512.3	580.2	650.6	723.6	796.6	858.1	901.6	932.3
52.5°	325.3	342.0	370.1	423.9	493.1	563.5	631.4	703.1	756.9	799.1	819.6
55°	252.3	267.7	297.1	342.0	407.3	476.4	544.3	605.8	655.7	686.4	705.7
57.5°	192.1	203.6	224.1	268.9	327.9	391.9	449.5	511.0	549.4	571.2	584.0
60°	146.0	155.0	176.7	211.3	265.1	320.2	368.8	415.0	445.7	463.6	476.4
62.5°	110.1	120.4	135.7	165.2	206.2	251.0	292.0	326.6	352.2	363.7	372.7
65°	75.5	83.2	94.8	117.8	152.4	184.4	216.4	242.1	258.7	271.5	276.6
67.5°	56.4	61.5	67.9	85.8	110.1	135.7	157.5	175.4	193.4	198.5	207.5
70°	42.3	46.1	52.5	65.3	79.4	97.3	115.3	125.5	138.3	147.3	149.9
72.5°	26.9	28.1	34.6	42.3	53.8	65.3	76.9	85.8	93.5	98.6	101.2
75°	15.4	23.0	23.0	30.7	38.4	43.5	51.2	57.6	61.5	65.3	65.3
77.5°	10.2	14.1	15.4	19.2	23.0	29.5	35.8	39.7	43.5	44.8	44.8
80°	9.0	10.2	10.2	14.1	16.7	21.8	25.6	26.9	29.5	30.7	33.3
82.5°	3.8	5.1	6.4	10.2	11.5	11.5	15.4	16.7	19.2	20.5	20.5
85°	1.3	2.6	2.6	3.8	6.4	7.7	9.0	10.2	11.5	11.5	12.8
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.1	5.1	5.1	7.7	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: P244978

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8	2622.8
2.5°	2599.8	2601.1	2595.9	2594.7	2592.1	2593.4	2595.9
5°	2552.4	2553.7	2548.6	2543.4	2543.4	2542.1	2543.4
7.5°	2507.5	2508.9	2501.2	2498.6	2493.5	2494.8	2494.8
10°	2462.7	2462.7	2451.2	2449.9	2446.1	2444.8	2444.8
12.5°	2419.2	2415.3	2406.4	2401.3	2403.9	2396.2	2396.2
15°	2380.8	2374.4	2362.8	2359.0	2352.6	2350.0	2350.0
17.5°	2341.1	2336.0	2325.7	2318.0	2310.3	2309.1	2310.3
20°	2302.6	2297.5	2284.7	2279.6	2273.2	2273.2	2270.6
22.5°	2264.2	2259.1	2247.6	2243.8	2234.8	2234.8	2236.1
25°	2224.5	2220.7	2207.9	2205.3	2204.1	2198.9	2201.5
27.5°	2170.8	2168.2	2157.9	2154.1	2149.0	2147.7	2150.2
30°	2072.1	2068.3	2060.6	2056.8	2047.8	2049.1	2051.6
32.5°	1949.2	1944.1	1933.8	1930.0	1922.3	1919.7	1921.0
35°	1795.5	1791.7	1782.7	1782.7	1775.0	1772.4	1775.0
37.5°	1639.3	1643.1	1639.3	1643.1	1639.3	1638.0	1639.3
40°	1492.0	1506.1	1508.6	1522.7	1517.6	1525.3	1524.0
42.5°	1351.1	1374.1	1383.2	1394.6	1392.1	1397.2	1401.1
45°	1208.9	1228.2	1237.1	1244.8	1246.1	1248.7	1249.9
47.5°	1074.5	1089.9	1091.1	1100.1	1098.8	1098.8	1102.7
50°	949.0	959.2	961.8	968.2	963.1	960.5	961.8
52.5°	832.5	842.7	840.1	842.7	836.3	833.7	835.0
55°	713.3	718.4	718.4	718.4	710.8	710.8	710.8
57.5°	591.7	593.0	590.4	591.7	590.4	582.7	581.4
60°	480.3	480.3	479.0	480.3	476.4	472.6	472.6
62.5°	375.2	377.8	382.9	377.8	375.2	377.8	374.0
65°	280.5	285.6	284.3	286.9	285.6	285.6	283.0
67.5°	211.3	212.6	213.9	215.2	215.2	215.2	215.2
70°	155.0	158.8	157.5	157.5	157.5	157.5	165.2
72.5°	103.7	108.9	107.6	110.1	110.1	112.7	110.1
75°	70.4	75.5	73.0	76.9	75.5	73.0	79.4
77.5°	47.4	50.0	51.2	52.5	51.2	50.0	51.2
80°	33.3	35.8	34.6	35.8	35.8	35.8	37.2
82.5°	20.5	24.4	23.0	24.4	23.0	24.4	24.4
85°	14.1	15.4	12.8	15.4	14.1	14.1	16.7
87.5°	9.0	7.7	7.7	9.0	7.7	9.0	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)