

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: P245974

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245974
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 EC8B40835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4354.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

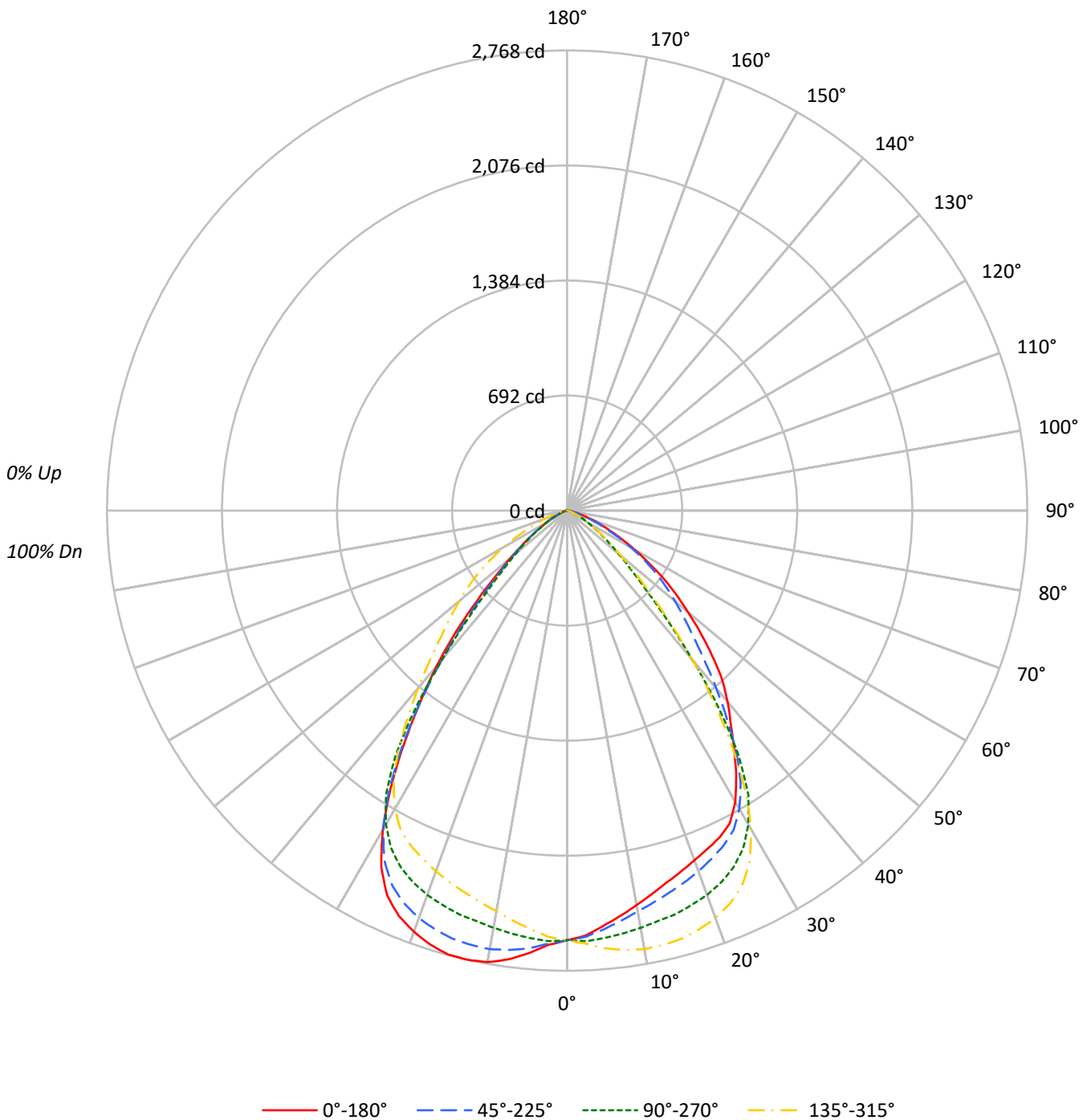
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	79706	79706	79706	79706
5°	77590	79893	82747	79893
10°	75443	79789	86349	79789
15°	73936	80264	88241	80264
20°	73434	80722	88467	80722
25°	73819	80559	87044	80559
30°	71993	77612	79004	77612
35°	65851	67703	64236	67703
40°	60457	47097	49182	47097
45°	53718	28730	33243	28730
50°	45469	19194	21314	19194
55°	37660	13096	13844	13096
60°	28721	8721	8795	8721
65°	20350	5429	4976	5429
70°	14678	3642	3300	3642
75°	9317	1811	1501	1811
80°	6499	1350	1119	1350
85°	5802	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	5.7
10°-20°	712.4	16.4
20°-30°	1078.8	24.8
30°-40°	1081.2	24.8
40°-50°	679.0	15.6
50°-60°	361.8	8.3
60°-70°	148.8	3.4
70°-80°	39.3	0.9
80°-90°	6.6	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°	2037.3	46.8
0°-40°	3118.5	71.6
0°-60°	4159.3	95.5
0°-90°	4354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2585	2585	2585	2585	2585	
5°	2507	2581	2673	2581	2507	236
15°	2316	2514	2764	2514	2316	655
25°	2170	2368	2558	2368	2170	995
35°	1749	1798	1706	1798	1749	1096
45°	1232	659	762	659	1232	947
55°	700	244	258	244	700	625
65°	279	74	68	74	279	289
75°	78	15	13	15	78	89
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°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2558.3	2555.8	2554.5	2557.1	2558.3	2563.4	2562.1	2564.6	2564.6	2565.9	2568.4
5°	2506.6	2505.3	2506.6	2506.6	2511.6	2516.7	2515.4	2519.2	2521.7	2528.1	2530.5
7.5°	2458.6	2458.6	2457.3	2462.4	2464.9	2472.5	2471.2	2477.6	2481.3	2487.6	2496.5
10°	2409.4	2409.4	2410.6	2414.4	2415.7	2427.1	2427.1	2435.9	2440.9	2447.3	2458.6
12.5°	2361.4	2361.4	2369.0	2366.5	2371.5	2380.4	2384.1	2393.0	2400.6	2413.2	2424.6
15°	2316.0	2316.0	2318.5	2324.8	2328.6	2340.0	2346.3	2356.4	2365.2	2377.9	2394.3
17.5°	2276.9	2275.6	2276.9	2284.5	2292.0	2302.1	2307.2	2319.8	2328.6	2345.0	2360.2
20°	2237.8	2240.3	2240.3	2246.6	2251.6	2264.2	2269.3	2283.2	2293.3	2308.4	2326.1
22.5°	2203.7	2202.4	2202.4	2211.3	2215.1	2226.4	2231.4	2244.0	2255.4	2268.0	2284.5
25°	2169.6	2167.0	2172.1	2173.4	2175.9	2188.5	2192.3	2201.1	2212.5	2223.9	2240.3
27.5°	2119.1	2116.6	2117.9	2122.9	2126.7	2136.8	2139.3	2148.1	2157.0	2167.0	2181.0
30°	2021.9	2019.4	2018.2	2027.0	2030.8	2038.3	2042.1	2057.3	2059.8	2071.1	2081.2
32.5°	1893.2	1891.9	1894.5	1902.0	1905.8	1915.9	1921.0	1929.8	1936.1	1942.4	1952.5
35°	1749.3	1746.8	1749.3	1756.9	1756.9	1765.7	1769.5	1773.3	1772.0	1773.3	1770.8
37.5°	1615.5	1614.2	1615.5	1619.3	1615.5	1619.3	1615.5	1608.0	1594.1	1578.9	1563.8
40°	1501.9	1503.2	1495.6	1500.7	1486.8	1484.3	1470.4	1451.4	1423.7	1393.4	1350.5
42.5°	1380.8	1377.0	1372.0	1374.4	1363.1	1354.2	1331.5	1307.6	1272.2	1221.8	1170.0
45°	1231.8	1230.6	1228.0	1226.8	1219.2	1210.4	1191.4	1163.7	1124.6	1072.8	1011.0
47.5°	1086.7	1082.9	1082.9	1084.1	1075.3	1074.1	1058.9	1035.0	1000.9	950.4	886.0
50°	947.8	946.6	949.1	954.2	947.8	945.3	935.3	918.8	888.6	845.6	785.0
52.5°	822.9	821.6	824.2	830.5	827.9	830.5	820.4	807.8	787.6	745.9	692.9
55°	700.5	700.5	700.5	708.0	708.0	708.0	703.0	695.5	676.5	646.2	597.0
57.5°	573.0	574.3	581.8	583.1	581.8	584.4	583.1	575.5	562.9	541.5	503.6
60°	465.7	465.7	469.5	473.3	472.0	473.3	473.3	469.5	456.9	439.2	409.0
62.5°	368.5	372.3	369.8	372.3	377.4	372.3	369.8	367.3	358.5	347.1	321.8
65°	278.9	281.5	281.5	282.7	280.2	281.5	276.4	272.6	267.6	255.0	238.6
67.5°	212.1	212.1	212.1	212.1	210.8	209.5	208.3	204.5	195.6	190.6	172.9
70°	162.8	155.2	155.2	155.2	155.2	156.5	152.7	147.7	145.1	136.3	123.7
72.5°	108.5	111.1	108.5	108.5	106.0	107.3	102.2	99.7	97.2	92.2	84.6
75°	78.2	72.0	74.4	75.7	72.0	74.4	69.4	64.4	64.4	60.6	56.8
77.5°	50.5	49.2	50.5	51.7	50.5	49.2	46.7	44.2	44.2	42.9	39.1
80°	36.6	35.3	35.3	35.3	34.1	35.3	32.8	32.8	30.3	29.0	26.5
82.5°	24.0	24.0	22.7	24.0	22.7	24.0	20.2	20.2	20.2	18.9	16.4
85°	16.4	13.9	13.9	15.2	12.6	15.2	13.9	12.6	11.4	11.4	10.1
87.5°	7.6	8.8	7.6	8.8	7.6	7.6	8.8	7.6	7.6	5.0	5.0
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°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2572.2	2573.5	2573.5	2578.5	2581.0	2582.3	2582.3	2592.4	2588.6	2591.2	2593.7
5°	2535.6	2543.2	2545.7	2545.7	2559.6	2564.6	2569.7	2581.0	2582.3	2589.9	2598.7
7.5°	2500.3	2509.1	2514.2	2525.5	2534.3	2543.2	2558.3	2565.9	2573.5	2583.6	2594.9
10°	2466.2	2476.3	2486.4	2495.2	2509.1	2520.5	2530.5	2548.2	2557.1	2571.0	2586.1
12.5°	2433.4	2447.3	2456.1	2471.2	2486.4	2496.5	2511.6	2528.1	2541.9	2555.8	2573.5
15°	2404.4	2420.8	2430.9	2447.3	2463.7	2477.6	2494.0	2514.2	2524.3	2540.7	2557.1
17.5°	2372.8	2390.5	2403.1	2418.2	2438.4	2453.6	2467.5	2487.6	2500.3	2517.9	2536.9
20°	2340.0	2357.7	2372.8	2387.9	2408.1	2423.3	2439.7	2459.9	2473.8	2491.4	2506.6
22.5°	2300.9	2317.3	2333.7	2351.3	2371.5	2384.1	2403.1	2420.8	2435.9	2452.3	2467.5
25°	2250.4	2270.6	2283.2	2299.6	2316.0	2329.9	2350.1	2367.7	2380.4	2395.5	2409.4
27.5°	2191.0	2206.2	2216.3	2230.2	2246.6	2259.2	2274.3	2292.0	2304.7	2318.5	2328.6
30°	2090.1	2104.0	2112.8	2122.9	2139.3	2150.7	2163.3	2179.7	2188.5	2198.6	2207.5
32.5°	1957.5	1968.9	1974.0	1981.5	1992.9	2004.2	2014.4	2028.2	2032.0	2038.3	2038.3
35°	1765.7	1768.2	1767.0	1769.5	1774.6	1780.9	1789.7	1798.5	1803.6	1803.6	1799.8
37.5°	1541.0	1525.9	1509.5	1496.9	1493.1	1490.6	1495.6	1499.4	1504.5	1507.0	1500.7
40°	1307.6	1273.5	1236.9	1204.0	1181.3	1171.3	1167.5	1170.0	1170.0	1178.8	1178.8
42.5°	1106.9	1053.9	999.6	950.4	917.5	892.3	881.0	881.0	882.2	888.6	892.3
45°	940.3	873.4	810.3	756.0	710.6	677.7	662.6	658.8	657.6	660.1	668.9
47.5°	812.8	743.4	677.7	610.9	562.9	530.1	516.2	511.1	506.1	511.1	512.4
50°	713.1	641.2	571.8	504.9	454.4	425.3	407.7	400.1	398.8	398.8	401.4
52.5°	622.2	555.3	485.9	417.8	364.7	337.0	320.6	316.8	311.8	316.8	316.8
55°	536.4	469.5	401.4	337.0	292.8	263.8	248.6	243.6	241.0	244.8	244.8
57.5°	443.0	386.2	323.1	265.0	220.9	200.7	189.3	183.0	181.7	184.3	181.7
60°	363.5	315.5	261.3	208.3	174.2	152.7	143.9	141.4	138.8	141.4	141.4
62.5°	287.8	247.4	203.2	162.8	133.8	118.7	108.5	108.5	107.3	107.3	108.5
65°	213.3	181.7	150.2	116.1	93.4	82.0	74.4	74.4	73.2	74.4	73.2
67.5°	155.2	133.8	108.5	84.6	66.9	60.6	55.5	51.7	54.3	51.7	50.5
70°	113.6	95.9	78.2	64.4	51.7	45.5	41.7	40.4	37.9	37.9	37.9
72.5°	75.7	64.4	53.0	41.7	34.1	27.7	26.5	24.0	21.5	22.7	25.2
75°	50.5	42.9	37.9	30.3	22.7	22.7	15.2	15.2	12.6	15.2	11.4
77.5°	35.3	29.0	22.7	18.9	15.2	13.9	10.1	10.1	8.8	8.8	8.8
80°	25.2	21.5	16.4	13.9	10.1	10.1	8.8	7.6	6.3	6.3	7.6
82.5°	15.2	11.4	11.4	10.1	6.3	5.0	3.8	5.0	2.5	2.5	2.5
85°	8.8	7.6	6.3	3.8	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	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°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2600.0	2598.7	2601.2	2601.2	2608.8	2607.5	2611.3	2611.3	2608.8	2610.1	2615.1
5°	2608.8	2612.6	2620.2	2626.5	2637.8	2642.9	2649.2	2655.5	2656.8	2660.6	2664.4
7.5°	2608.8	2621.5	2630.3	2641.6	2656.8	2665.6	2679.5	2690.9	2695.9	2702.2	2709.8
10°	2603.7	2616.4	2632.8	2645.4	2664.4	2678.2	2692.1	2709.8	2717.4	2727.4	2737.6
12.5°	2593.7	2607.5	2625.2	2641.6	2663.1	2675.7	2693.4	2709.8	2721.1	2735.0	2746.4
15°	2578.5	2594.9	2611.3	2627.7	2650.4	2665.6	2682.0	2700.9	2712.3	2727.4	2737.6
17.5°	2554.5	2572.2	2587.4	2602.5	2624.0	2641.6	2656.8	2674.4	2685.8	2698.4	2712.3
20°	2525.5	2541.9	2558.3	2571.0	2592.4	2607.5	2624.0	2640.4	2649.2	2651.7	2673.2
22.5°	2488.9	2500.3	2512.9	2533.1	2545.7	2559.6	2574.8	2589.9	2598.7	2612.6	2620.2
25°	2428.3	2439.7	2453.6	2462.4	2477.6	2488.9	2504.0	2520.5	2525.5	2535.6	2543.2
27.5°	2343.8	2350.1	2356.4	2363.9	2372.8	2379.1	2387.9	2395.5	2400.6	2405.6	2410.6
30°	2210.0	2210.0	2210.0	2204.9	2208.7	2212.5	2213.8	2212.5	2212.5	2211.3	2211.3
32.5°	2033.3	2023.2	2011.8	2001.7	1998.0	1992.9	1990.4	1986.6	1980.3	1976.5	1977.7
35°	1794.7	1772.0	1758.1	1745.5	1735.4	1727.9	1724.1	1720.3	1719.0	1714.0	1708.9
37.5°	1496.9	1480.5	1470.4	1462.8	1454.0	1446.4	1447.6	1448.9	1452.7	1450.2	1451.4
40°	1181.3	1177.6	1181.3	1172.5	1170.0	1172.5	1178.8	1187.7	1192.7	1197.8	1206.6
42.5°	898.6	904.9	913.8	913.8	917.5	922.6	930.2	944.1	951.6	960.5	970.6
45°	676.5	684.1	695.5	699.2	701.7	708.0	716.9	728.2	733.3	740.9	749.7
47.5°	521.3	526.3	532.6	538.9	545.2	547.8	556.6	556.6	562.9	568.0	570.5
50°	406.4	411.4	416.5	420.3	422.8	426.6	429.1	432.9	434.1	436.7	437.9
52.5°	318.0	324.4	324.4	326.9	330.7	334.5	333.2	334.5	335.7	335.7	339.5
55°	248.6	248.6	252.4	252.4	255.0	253.7	255.0	255.0	255.0	255.0	256.2
57.5°	185.5	186.8	190.6	188.1	186.8	189.3	186.8	189.3	188.1	190.6	186.8
60°	142.6	142.6	143.9	143.9	145.1	145.1	145.1	143.9	143.9	142.6	142.6
62.5°	107.3	108.5	109.8	108.5	108.5	108.5	107.3	107.3	106.0	104.7	104.7
65°	72.0	70.7	73.2	70.7	72.0	72.0	70.7	72.0	68.2	69.4	68.2
67.5°	51.7	50.5	49.2	50.5	49.2	47.9	47.9	49.2	50.5	46.7	46.7
70°	34.1	35.3	34.1	35.3	36.6	36.6	35.3	34.1	35.3	32.8	34.1
72.5°	21.5	21.5	21.5	21.5	21.5	22.7	22.7	22.7	20.2	20.2	18.9
75°	10.1	13.9	11.4	10.1	13.9	13.9	12.6	12.6	11.4	11.4	11.4
77.5°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	7.6	6.3
80°	5.0	5.0	5.0	3.8	5.0	5.0	6.3	5.0	5.0	3.8	6.3
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: P245974

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2613.9	2612.6	2613.9	2615.1	2613.9	2612.6	2613.9	2615.1	2610.1	2608.8	2611.3
5°	2669.4	2669.4	2671.9	2673.2	2671.9	2669.4	2669.4	2664.4	2660.6	2656.8	2655.5
7.5°	2717.4	2719.9	2722.4	2723.6	2722.4	2719.9	2717.4	2709.8	2702.2	2695.9	2690.9
10°	2746.4	2750.2	2755.2	2757.7	2755.2	2750.2	2746.4	2737.6	2727.4	2717.4	2709.8
12.5°	2759.0	2762.8	2769.1	2767.9	2769.1	2762.8	2759.0	2746.4	2735.0	2721.1	2709.8
15°	2750.2	2755.2	2761.5	2764.1	2761.5	2755.2	2750.2	2737.6	2727.4	2712.3	2700.9
17.5°	2722.4	2730.0	2733.8	2737.6	2733.8	2730.0	2722.4	2712.3	2698.4	2685.8	2674.4
20°	2684.5	2689.6	2694.7	2695.9	2694.7	2689.6	2684.5	2673.2	2651.7	2649.2	2640.4
22.5°	2630.3	2634.1	2645.4	2641.6	2645.4	2634.1	2630.3	2620.2	2612.6	2598.7	2589.9
25°	2552.0	2555.8	2557.1	2558.3	2557.1	2555.8	2552.0	2543.2	2535.6	2525.5	2520.5
27.5°	2417.0	2417.0	2419.5	2420.8	2419.5	2417.0	2417.0	2410.6	2405.6	2400.6	2395.5
30°	2212.5	2212.5	2212.5	2218.8	2212.5	2212.5	2212.5	2211.3	2211.3	2212.5	2212.5
32.5°	1976.5	1974.0	1971.5	1974.0	1971.5	1974.0	1976.5	1977.7	1976.5	1980.3	1986.6
35°	1708.9	1707.7	1711.4	1706.4	1711.4	1707.7	1708.9	1708.9	1714.0	1719.0	1720.3
37.5°	1452.7	1450.2	1455.2	1450.2	1455.2	1450.2	1452.7	1451.4	1450.2	1452.7	1448.9
40°	1209.1	1211.6	1211.6	1221.8	1211.6	1211.6	1209.1	1206.6	1197.8	1192.7	1187.7
42.5°	975.6	983.2	980.7	988.2	980.7	983.2	975.6	970.6	960.5	951.6	944.1
45°	754.7	759.8	759.8	762.3	759.8	759.8	754.7	749.7	740.9	733.3	728.2
47.5°	579.3	579.3	579.3	580.6	579.3	579.3	579.3	570.5	568.0	562.9	556.6
50°	440.5	441.7	443.0	444.3	443.0	441.7	440.5	437.9	436.7	434.1	432.9
52.5°	338.2	339.5	337.0	339.5	337.0	339.5	338.2	339.5	335.7	335.7	334.5
55°	256.2	255.0	256.2	257.5	256.2	255.0	256.2	256.2	255.0	255.0	255.0
57.5°	188.1	185.5	185.5	185.5	185.5	185.5	188.1	186.8	190.6	188.1	189.3
60°	140.1	141.4	141.4	142.6	141.4	141.4	140.1	142.6	142.6	143.9	143.9
62.5°	103.5	107.3	104.7	107.3	104.7	107.3	103.5	104.7	104.7	106.0	107.3
65°	66.9	66.9	66.9	68.2	66.9	66.9	66.9	68.2	69.4	68.2	72.0
67.5°	45.5	46.7	49.2	47.9	49.2	46.7	45.5	46.7	46.7	50.5	49.2
70°	36.6	32.8	32.8	36.6	32.8	32.8	36.6	34.1	32.8	35.3	34.1
72.5°	21.5	18.9	21.5	21.5	21.5	18.9	21.5	18.9	20.2	20.2	22.7
75°	11.4	10.1	8.8	12.6	8.8	10.1	11.4	11.4	11.4	11.4	12.6
77.5°	7.6	6.3	8.8	8.8	8.8	6.3	7.6	6.3	7.6	6.3	7.6
80°	3.8	5.0	3.8	6.3	3.8	5.0	3.8	6.3	3.8	5.0	5.0
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: P245974

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2611.3	2607.5	2608.8	2601.2	2601.2	2598.7	2600.0	2593.7	2591.2	2588.6	2592.4
5°	2649.2	2642.9	2637.8	2626.5	2620.2	2612.6	2608.8	2598.7	2589.9	2582.3	2581.0
7.5°	2679.5	2665.6	2656.8	2641.6	2630.3	2621.5	2608.8	2594.9	2583.6	2573.5	2565.9
10°	2692.1	2678.2	2664.4	2645.4	2632.8	2616.4	2603.7	2586.1	2571.0	2557.1	2548.2
12.5°	2693.4	2675.7	2663.1	2641.6	2625.2	2607.5	2593.7	2573.5	2555.8	2541.9	2528.1
15°	2682.0	2665.6	2650.4	2627.7	2611.3	2594.9	2578.5	2557.1	2540.7	2524.3	2514.2
17.5°	2656.8	2641.6	2624.0	2602.5	2587.4	2572.2	2554.5	2536.9	2517.9	2500.3	2487.6
20°	2624.0	2607.5	2592.4	2571.0	2558.3	2541.9	2525.5	2506.6	2491.4	2473.8	2459.9
22.5°	2574.8	2559.6	2545.7	2533.1	2512.9	2500.3	2488.9	2467.5	2452.3	2435.9	2420.8
25°	2504.0	2488.9	2477.6	2462.4	2453.6	2439.7	2428.3	2409.4	2395.5	2380.4	2367.7
27.5°	2387.9	2379.1	2372.8	2363.9	2356.4	2350.1	2343.8	2328.6	2318.5	2304.7	2292.0
30°	2213.8	2212.5	2208.7	2204.9	2210.0	2210.0	2210.0	2207.5	2198.6	2188.5	2179.7
32.5°	1990.4	1992.9	1998.0	2001.7	2011.8	2023.2	2033.3	2038.3	2038.3	2032.0	2028.2
35°	1724.1	1727.9	1735.4	1745.5	1758.1	1772.0	1794.7	1799.8	1803.6	1803.6	1798.5
37.5°	1447.6	1446.4	1454.0	1462.8	1470.4	1480.5	1496.9	1500.7	1507.0	1504.5	1499.4
40°	1178.8	1172.5	1170.0	1172.5	1181.3	1177.6	1181.3	1178.8	1178.8	1170.0	1170.0
42.5°	930.2	922.6	917.5	913.8	913.8	904.9	898.6	892.3	888.6	882.2	881.0
45°	716.9	708.0	701.7	699.2	695.5	684.1	676.5	668.9	660.1	657.6	658.8
47.5°	556.6	547.8	545.2	538.9	532.6	526.3	521.3	512.4	511.1	506.1	511.1
50°	429.1	426.6	422.8	420.3	416.5	411.4	406.4	401.4	398.8	398.8	400.1
52.5°	333.2	334.5	330.7	326.9	324.4	324.4	318.0	316.8	316.8	311.8	316.8
55°	255.0	253.7	255.0	252.4	252.4	248.6	248.6	244.8	244.8	241.0	243.6
57.5°	186.8	189.3	186.8	188.1	190.6	186.8	185.5	181.7	184.3	181.7	183.0
60°	145.1	145.1	145.1	143.9	143.9	142.6	142.6	141.4	141.4	138.8	141.4
62.5°	107.3	108.5	108.5	108.5	109.8	108.5	107.3	108.5	107.3	107.3	108.5
65°	70.7	72.0	72.0	70.7	73.2	70.7	72.0	73.2	74.4	73.2	74.4
67.5°	47.9	47.9	49.2	50.5	49.2	50.5	51.7	50.5	51.7	54.3	51.7
70°	35.3	36.6	36.6	35.3	34.1	35.3	34.1	37.9	37.9	37.9	40.4
72.5°	22.7	22.7	21.5	21.5	21.5	21.5	21.5	25.2	22.7	21.5	24.0
75°	12.6	13.9	13.9	10.1	11.4	13.9	10.1	11.4	15.2	12.6	15.2
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	8.8	8.8	8.8	10.1
80°	6.3	5.0	5.0	3.8	5.0	5.0	5.0	7.6	6.3	6.3	7.6
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0
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: P245974

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2582.3	2582.3	2581.0	2578.5	2573.5	2573.5	2572.2	2568.4	2565.9	2564.6	2564.6
5°	2569.7	2564.6	2559.6	2545.7	2545.7	2543.2	2535.6	2530.5	2528.1	2521.7	2519.2
7.5°	2558.3	2543.2	2534.3	2525.5	2514.2	2509.1	2500.3	2496.5	2487.6	2481.3	2477.6
10°	2530.5	2520.5	2509.1	2495.2	2486.4	2476.3	2466.2	2458.6	2447.3	2440.9	2435.9
12.5°	2511.6	2496.5	2486.4	2471.2	2456.1	2447.3	2433.4	2424.6	2413.2	2400.6	2393.0
15°	2494.0	2477.6	2463.7	2447.3	2430.9	2420.8	2404.4	2394.3	2377.9	2365.2	2356.4
17.5°	2467.5	2453.6	2438.4	2418.2	2403.1	2390.5	2372.8	2360.2	2345.0	2328.6	2319.8
20°	2439.7	2423.3	2408.1	2387.9	2372.8	2357.7	2340.0	2326.1	2308.4	2293.3	2283.2
22.5°	2403.1	2384.1	2371.5	2351.3	2333.7	2317.3	2300.9	2284.5	2268.0	2255.4	2244.0
25°	2350.1	2329.9	2316.0	2299.6	2283.2	2270.6	2250.4	2240.3	2223.9	2212.5	2201.1
27.5°	2274.3	2259.2	2246.6	2230.2	2216.3	2206.2	2191.0	2181.0	2167.0	2157.0	2148.1
30°	2163.3	2150.7	2139.3	2122.9	2112.8	2104.0	2090.1	2081.2	2071.1	2059.8	2057.3
32.5°	2014.4	2004.2	1992.9	1981.5	1974.0	1968.9	1957.5	1952.5	1942.4	1936.1	1929.8
35°	1789.7	1780.9	1774.6	1769.5	1767.0	1768.2	1765.7	1770.8	1773.3	1772.0	1773.3
37.5°	1495.6	1490.6	1493.1	1496.9	1509.5	1525.9	1541.0	1563.8	1578.9	1594.1	1608.0
40°	1167.5	1171.3	1181.3	1204.0	1236.9	1273.5	1307.6	1350.5	1393.4	1423.7	1451.4
42.5°	881.0	892.3	917.5	950.4	999.6	1053.9	1106.9	1170.0	1221.8	1272.2	1307.6
45°	662.6	677.7	710.6	756.0	810.3	873.4	940.3	1011.0	1072.8	1124.6	1163.7
47.5°	516.2	530.1	562.9	610.9	677.7	743.4	812.8	886.0	950.4	1000.9	1035.0
50°	407.7	425.3	454.4	504.9	571.8	641.2	713.1	785.0	845.6	888.6	918.8
52.5°	320.6	337.0	364.7	417.8	485.9	555.3	622.2	692.9	745.9	787.6	807.8
55°	248.6	263.8	292.8	337.0	401.4	469.5	536.4	597.0	646.2	676.5	695.5
57.5°	189.3	200.7	220.9	265.0	323.1	386.2	443.0	503.6	541.5	562.9	575.5
60°	143.9	152.7	174.2	208.3	261.3	315.5	363.5	409.0	439.2	456.9	469.5
62.5°	108.5	118.7	133.8	162.8	203.2	247.4	287.8	321.8	347.1	358.5	367.3
65°	74.4	82.0	93.4	116.1	150.2	181.7	213.3	238.6	255.0	267.6	272.6
67.5°	55.5	60.6	66.9	84.6	108.5	133.8	155.2	172.9	190.6	195.6	204.5
70°	41.7	45.5	51.7	64.4	78.2	95.9	113.6	123.7	136.3	145.1	147.7
72.5°	26.5	27.7	34.1	41.7	53.0	64.4	75.7	84.6	92.2	97.2	99.7
75°	15.2	22.7	22.7	30.3	37.9	42.9	50.5	56.8	60.6	64.4	64.4
77.5°	10.1	13.9	15.2	18.9	22.7	29.0	35.3	39.1	42.9	44.2	44.2
80°	8.8	10.1	10.1	13.9	16.4	21.5	25.2	26.5	29.0	30.3	32.8
82.5°	3.8	5.0	6.3	10.1	11.4	11.4	15.2	16.4	18.9	20.2	20.2
85°	1.2	2.5	2.5	3.8	6.3	7.6	8.8	10.1	11.4	11.4	12.6
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.6	7.6
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: P245974

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8	2584.8
2.5°	2562.1	2563.4	2558.3	2557.1	2554.5	2555.8	2558.3
5°	2515.4	2516.7	2511.6	2506.6	2506.6	2505.3	2506.6
7.5°	2471.2	2472.5	2464.9	2462.4	2457.3	2458.6	2458.6
10°	2427.1	2427.1	2415.7	2414.4	2410.6	2409.4	2409.4
12.5°	2384.1	2380.4	2371.5	2366.5	2369.0	2361.4	2361.4
15°	2346.3	2340.0	2328.6	2324.8	2318.5	2316.0	2316.0
17.5°	2307.2	2302.1	2292.0	2284.5	2276.9	2275.6	2276.9
20°	2269.3	2264.2	2251.6	2246.6	2240.3	2240.3	2237.8
22.5°	2231.4	2226.4	2215.1	2211.3	2202.4	2202.4	2203.7
25°	2192.3	2188.5	2175.9	2173.4	2172.1	2167.0	2169.6
27.5°	2139.3	2136.8	2126.7	2122.9	2117.9	2116.6	2119.1
30°	2042.1	2038.3	2030.8	2027.0	2018.2	2019.4	2021.9
32.5°	1921.0	1915.9	1905.8	1902.0	1894.5	1891.9	1893.2
35°	1769.5	1765.7	1756.9	1756.9	1749.3	1746.8	1749.3
37.5°	1615.5	1619.3	1615.5	1619.3	1615.5	1614.2	1615.5
40°	1470.4	1484.3	1486.8	1500.7	1495.6	1503.2	1501.9
42.5°	1331.5	1354.2	1363.1	1374.4	1372.0	1377.0	1380.8
45°	1191.4	1210.4	1219.2	1226.8	1228.0	1230.6	1231.8
47.5°	1058.9	1074.1	1075.3	1084.1	1082.9	1082.9	1086.7
50°	935.3	945.3	947.8	954.2	949.1	946.6	947.8
52.5°	820.4	830.5	827.9	830.5	824.2	821.6	822.9
55°	703.0	708.0	708.0	708.0	700.5	700.5	700.5
57.5°	583.1	584.4	581.8	583.1	581.8	574.3	573.0
60°	473.3	473.3	472.0	473.3	469.5	465.7	465.7
62.5°	369.8	372.3	377.4	372.3	369.8	372.3	368.5
65°	276.4	281.5	280.2	282.7	281.5	281.5	278.9
67.5°	208.3	209.5	210.8	212.1	212.1	212.1	212.1
70°	152.7	156.5	155.2	155.2	155.2	155.2	162.8
72.5°	102.2	107.3	106.0	108.5	108.5	111.1	108.5
75°	69.4	74.4	72.0	75.7	74.4	72.0	78.2
77.5°	46.7	49.2	50.5	51.7	50.5	49.2	50.5
80°	32.8	35.3	34.1	35.3	35.3	35.3	36.6
82.5°	20.2	24.0	22.7	24.0	22.7	24.0	24.0
85°	13.9	15.2	12.6	15.2	13.9	13.9	16.4
87.5°	8.8	7.6	7.6	8.8	7.6	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)