

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: P245830

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245830
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

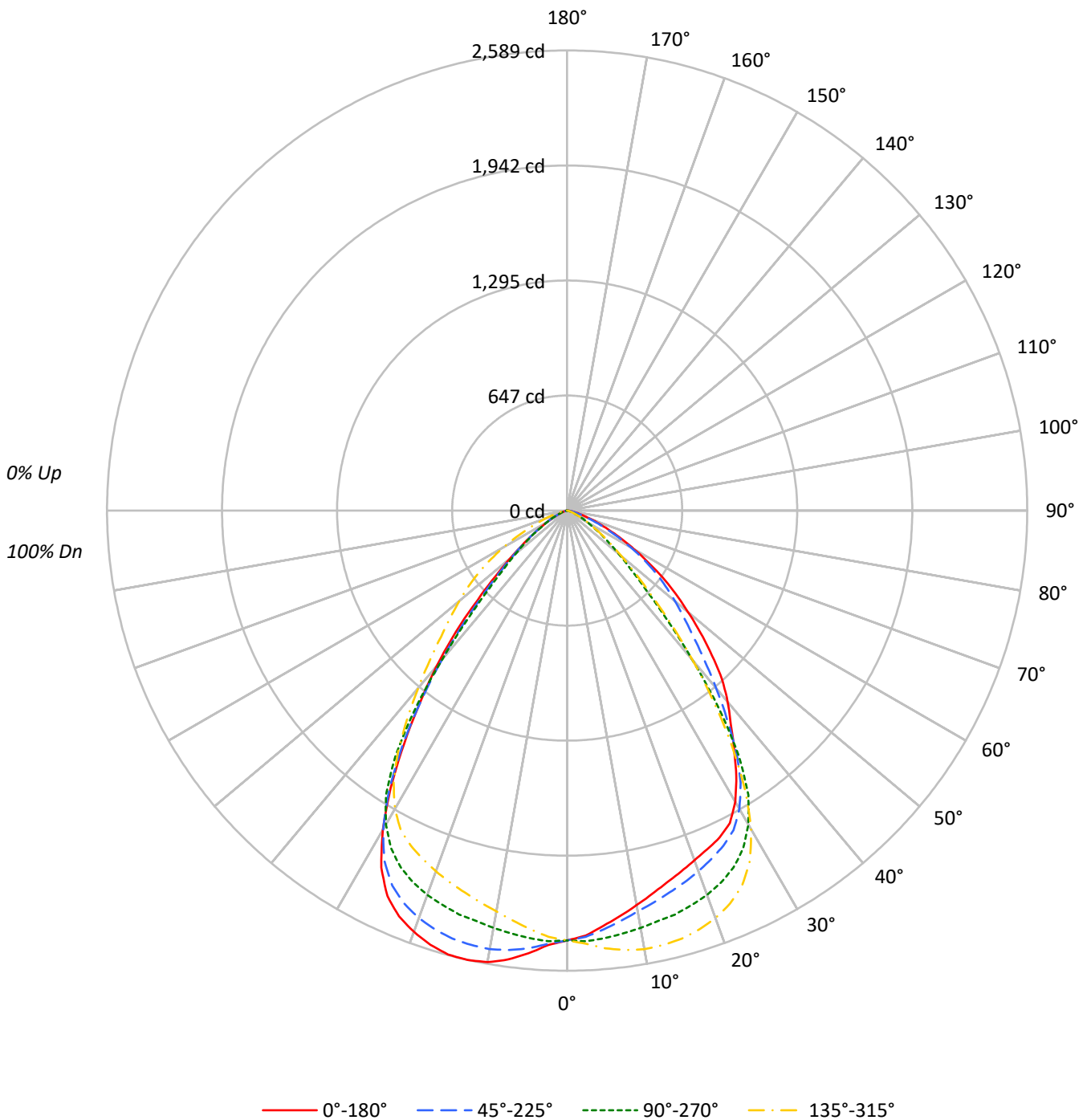
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	74562	74562	74562	74562
5°	72581	74739	77407	74739
10°	70574	74638	80776	74638
15°	69164	75082	82546	75082
20°	68692	75511	82757	75511
25°	69055	75360	81426	75360
30°	67347	72602	73905	72602
35°	61601	63333	60091	63333
40°	56557	44058	46006	44058
45°	50251	26876	31098	26876
50°	42537	17951	19937	17951
55°	35230	12252	12946	12252
60°	26871	8153	8227	8153
65°	19037	5078	4655	5078
70°	13731	3408	3092	3408
75°	8721	1692	1406	1692
80°	6091	1261	1048	1261
85°	5449	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	5.7
10°-20°	666.5	16.4
20°-30°	1009.2	24.8
30°-40°	1011.4	24.8
40°-50°	635.1	15.6
50°-60°	338.5	8.3
60°-70°	139.2	3.4
70°-80°	36.8	0.9
80°-90°	6.2	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°	1905.8	46.8
0°-40°	2917.2	71.6
0°-60°	3890.8	95.5
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2418	2418	2418	2418	2418	
5°	2345	2414	2501	2414	2345	221
15°	2166	2352	2586	2352	2166	613
25°	2030	2215	2393	2215	2030	931
35°	1636	1682	1596	1682	1636	1025
45°	1152	616	713	616	1152	886
55°	655	228	241	228	655	584
65°	261	70	64	70	261	271
75°	73	14	12	14	73	83
85°	15	0	1	0	15	17
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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2393.2	2390.8	2389.7	2392.1	2393.2	2397.9	2396.8	2399.1	2399.1	2400.3	2402.7
5°	2344.8	2343.6	2344.8	2344.8	2349.5	2354.3	2353.1	2356.6	2359.0	2364.9	2367.2
7.5°	2300.0	2300.0	2298.8	2303.5	2305.8	2312.9	2311.7	2317.7	2321.2	2327.1	2335.3
10°	2253.9	2253.9	2255.1	2258.6	2259.8	2270.4	2270.4	2278.7	2283.4	2289.3	2300.0
12.5°	2209.0	2209.0	2216.1	2213.8	2218.5	2226.7	2230.3	2238.5	2245.6	2257.4	2268.1
15°	2166.5	2166.5	2168.9	2174.8	2178.3	2189.0	2194.9	2204.3	2212.6	2224.4	2239.8
17.5°	2129.9	2128.8	2129.9	2137.0	2144.1	2153.5	2158.3	2170.1	2178.3	2193.7	2207.9
20°	2093.3	2095.7	2095.7	2101.6	2106.3	2118.1	2122.8	2135.9	2145.3	2159.4	2176.0
22.5°	2061.5	2060.3	2060.3	2068.5	2072.1	2082.7	2087.4	2099.2	2109.9	2121.7	2137.0
25°	2029.6	2027.2	2032.0	2033.1	2035.5	2047.3	2050.8	2059.1	2069.7	2080.4	2095.7
27.5°	1982.3	1980.0	1981.2	1985.9	1989.4	1998.9	2001.2	2009.5	2017.8	2027.2	2040.2
30°	1891.4	1889.1	1887.9	1896.2	1899.7	1906.8	1910.3	1924.5	1926.8	1937.5	1946.9
32.5°	1771.0	1769.8	1772.2	1779.2	1782.8	1792.3	1797.0	1805.2	1811.1	1817.1	1826.5
35°	1636.4	1634.0	1636.4	1643.5	1643.5	1651.8	1655.3	1658.8	1657.7	1658.8	1656.5
37.5°	1511.3	1510.1	1511.3	1514.8	1511.3	1514.8	1511.3	1504.2	1491.2	1477.0	1462.8
40°	1405.0	1406.2	1399.1	1403.8	1390.8	1388.5	1375.5	1357.8	1331.8	1303.5	1263.3
42.5°	1291.7	1288.1	1283.4	1285.7	1275.1	1266.8	1245.6	1223.2	1190.1	1142.9	1094.5
45°	1152.3	1151.2	1148.8	1147.6	1140.5	1132.3	1114.5	1088.6	1052.0	1003.6	945.7
47.5°	1016.6	1013.0	1013.0	1014.2	1005.9	1004.8	990.6	968.2	936.3	889.0	828.8
50°	886.7	885.5	887.9	892.6	886.7	884.3	874.9	859.5	831.2	791.1	734.4
52.5°	769.8	768.6	771.0	776.9	774.5	776.9	767.4	755.6	736.7	697.8	648.2
55°	655.3	655.3	655.3	662.3	662.3	662.3	657.6	650.6	632.8	604.5	558.5
57.5°	536.0	537.2	544.3	545.5	544.3	546.7	545.5	538.4	526.6	506.5	471.1
60°	435.7	435.7	439.2	442.8	441.6	442.8	442.8	439.2	427.4	410.9	382.6
62.5°	344.7	348.3	345.9	348.3	353.0	348.3	345.9	343.6	335.3	324.7	301.1
65°	260.9	263.3	263.3	264.5	262.1	263.3	258.6	255.0	250.3	238.5	223.2
67.5°	198.4	198.4	198.4	198.4	197.2	196.0	194.8	191.3	183.0	178.3	161.7
70°	152.3	145.2	145.2	145.2	145.2	146.4	142.9	138.2	135.8	127.5	115.7
72.5°	101.5	103.9	101.5	101.5	99.2	100.4	95.6	93.3	90.9	86.2	79.1
75°	73.2	67.3	69.6	70.9	67.3	69.6	64.9	60.2	60.2	56.7	53.1
77.5°	47.2	46.1	47.2	48.4	47.2	46.1	43.7	41.3	41.3	40.1	36.6
80°	34.3	33.0	33.0	33.0	31.9	33.0	30.7	30.7	28.3	27.2	24.8
82.5°	22.5	22.5	21.2	22.5	21.2	22.5	18.9	18.9	18.9	17.7	15.4
85°	15.4	13.0	13.0	14.2	11.8	14.2	13.0	11.8	10.6	10.6	9.4
87.5°	7.1	8.3	7.1	8.3	7.1	7.1	8.3	7.1	7.1	4.7	4.7
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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2406.2	2407.4	2407.4	2412.1	2414.5	2415.6	2415.6	2425.1	2421.6	2423.9	2426.3
5°	2372.0	2379.0	2381.4	2381.4	2394.4	2399.1	2403.8	2414.5	2415.6	2422.7	2431.0
7.5°	2338.9	2347.2	2351.9	2362.5	2370.8	2379.0	2393.2	2400.3	2407.4	2416.8	2427.4
10°	2307.0	2316.5	2325.9	2334.2	2347.2	2357.8	2367.2	2383.7	2392.1	2405.0	2419.2
12.5°	2276.3	2289.3	2297.6	2311.7	2325.9	2335.3	2349.5	2364.9	2377.9	2390.8	2407.4
15°	2249.2	2264.5	2274.0	2289.3	2304.7	2317.7	2333.0	2351.9	2361.3	2376.7	2392.1
17.5°	2219.6	2236.2	2248.0	2262.2	2281.1	2295.2	2308.2	2327.1	2338.9	2355.4	2373.2
20°	2189.0	2205.5	2219.6	2233.8	2252.7	2266.9	2282.2	2301.1	2314.1	2330.6	2344.8
22.5°	2152.4	2167.7	2183.0	2199.6	2218.5	2230.3	2248.0	2264.5	2278.7	2294.0	2308.2
25°	2105.1	2124.0	2135.9	2151.2	2166.5	2179.5	2198.4	2214.9	2226.7	2240.9	2253.9
27.5°	2049.6	2063.8	2073.3	2086.2	2101.6	2113.4	2127.5	2144.1	2155.9	2168.9	2178.3
30°	1955.2	1968.2	1976.5	1985.9	2001.2	2011.9	2023.7	2039.0	2047.3	2056.7	2065.0
32.5°	1831.2	1841.8	1846.6	1853.6	1864.3	1874.9	1884.4	1897.3	1900.9	1906.8	1906.8
35°	1651.8	1654.1	1652.9	1655.3	1660.0	1665.9	1674.2	1682.4	1687.2	1687.2	1683.7
37.5°	1441.6	1427.5	1412.1	1400.3	1396.7	1394.4	1399.1	1402.6	1407.4	1409.7	1403.8
40°	1223.2	1191.3	1157.1	1126.3	1105.1	1095.7	1092.1	1094.5	1094.5	1102.7	1102.7
42.5°	1035.5	985.8	935.1	889.0	858.3	834.8	824.1	824.1	825.3	831.2	834.8
45°	879.6	817.0	758.0	707.2	664.7	634.0	619.9	616.3	615.1	617.5	625.7
47.5°	760.4	695.4	634.0	571.5	526.6	495.9	482.9	478.1	473.4	478.1	479.4
50°	667.1	599.8	534.9	472.3	425.0	397.9	381.3	374.2	373.1	373.1	375.5
52.5°	582.1	519.5	454.6	390.8	341.2	315.3	299.9	296.3	291.6	296.3	296.3
55°	501.8	439.2	375.5	315.3	273.9	246.8	232.6	227.9	225.5	229.0	229.0
57.5°	414.4	361.3	302.3	247.9	206.6	187.7	177.1	171.2	170.0	172.4	170.0
60°	340.0	295.2	244.4	194.8	162.9	142.9	134.6	132.2	129.9	132.2	132.2
62.5°	269.2	231.4	190.1	152.3	125.1	111.0	101.5	101.5	100.4	100.4	101.5
65°	199.5	170.0	140.5	108.6	87.4	76.7	69.6	69.6	68.5	69.6	68.5
67.5°	145.2	125.1	101.5	79.1	62.6	56.7	52.0	48.4	50.8	48.4	47.2
70°	106.3	89.7	73.2	60.2	48.4	42.5	39.0	37.8	35.4	35.4	35.4
72.5°	70.9	60.2	49.6	39.0	31.9	26.0	24.8	22.5	20.1	21.2	23.6
75°	47.2	40.1	35.4	28.3	21.2	21.2	14.2	14.2	11.8	14.2	10.6
77.5°	33.0	27.2	21.2	17.7	14.2	13.0	9.4	9.4	8.3	8.3	8.3
80°	23.6	20.1	15.4	13.0	9.4	9.4	8.3	7.1	5.9	5.9	7.1
82.5°	14.2	10.6	10.6	9.4	5.9	4.7	3.5	4.7	2.4	2.4	2.4
85°	8.3	7.1	5.9	3.5	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.7	2.4	2.4	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.4
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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2432.2	2431.0	2433.4	2433.4	2440.5	2439.2	2442.8	2442.8	2440.5	2441.6	2446.3
5°	2440.5	2444.0	2451.1	2457.0	2467.6	2472.3	2478.2	2484.2	2485.3	2488.9	2492.4
7.5°	2440.5	2452.3	2460.5	2471.1	2485.3	2493.6	2506.6	2517.2	2521.9	2527.8	2534.9
10°	2435.7	2447.5	2462.9	2474.7	2492.4	2505.4	2518.4	2534.9	2542.0	2551.4	2560.9
12.5°	2426.3	2439.2	2455.8	2471.1	2491.2	2503.0	2519.5	2534.9	2545.5	2558.5	2569.1
15°	2412.1	2427.4	2442.8	2458.2	2479.4	2493.6	2508.9	2526.6	2537.3	2551.4	2560.9
17.5°	2389.7	2406.2	2420.4	2434.5	2454.6	2471.1	2485.3	2501.8	2512.5	2524.3	2537.3
20°	2362.5	2377.9	2393.2	2405.0	2425.1	2439.2	2454.6	2470.0	2478.2	2480.6	2500.7
22.5°	2328.3	2338.9	2350.7	2369.6	2381.4	2394.4	2408.6	2422.7	2431.0	2444.0	2451.1
25°	2271.6	2282.2	2295.2	2303.5	2317.7	2328.3	2342.4	2357.8	2362.5	2372.0	2379.0
27.5°	2192.5	2198.4	2204.3	2211.4	2219.6	2225.6	2233.8	2240.9	2245.6	2250.4	2255.1
30°	2067.3	2067.3	2067.3	2062.6	2066.2	2069.7	2070.9	2069.7	2069.7	2068.5	2068.5
32.5°	1902.1	1892.6	1882.0	1872.6	1869.0	1864.3	1861.9	1858.4	1852.5	1848.9	1850.1
35°	1678.9	1657.7	1644.7	1632.9	1623.4	1616.3	1612.8	1609.3	1608.1	1603.4	1598.6
37.5°	1400.3	1384.9	1375.5	1368.4	1360.1	1353.0	1354.2	1355.4	1358.9	1356.6	1357.8
40°	1105.1	1101.6	1105.1	1096.8	1094.5	1096.8	1102.7	1111.0	1115.7	1120.5	1128.7
42.5°	840.6	846.5	854.8	854.8	858.3	863.1	870.1	883.2	890.2	898.5	907.9
45°	632.8	639.9	650.6	654.1	656.5	662.3	670.6	681.2	686.0	693.0	701.3
47.5°	487.6	492.3	498.2	504.1	510.0	512.4	520.7	520.7	526.6	531.3	533.6
50°	380.2	384.9	389.6	393.2	395.5	399.1	401.4	405.0	406.1	408.5	409.7
52.5°	297.5	303.4	303.4	305.8	309.3	312.9	311.7	312.9	314.0	314.0	317.6
55°	232.6	232.6	236.1	236.1	238.5	237.3	238.5	238.5	238.5	238.5	239.7
57.5°	173.5	174.8	178.3	175.9	174.8	177.1	174.8	177.1	175.9	178.3	174.8
60°	133.4	133.4	134.6	134.6	135.8	135.8	135.8	134.6	134.6	133.4	133.4
62.5°	100.4	101.5	102.7	101.5	101.5	101.5	100.4	100.4	99.2	98.0	98.0
65°	67.3	66.1	68.5	66.1	67.3	67.3	66.1	67.3	63.8	64.9	63.8
67.5°	48.4	47.2	46.1	47.2	46.1	44.9	44.9	46.1	47.2	43.7	43.7
70°	31.9	33.0	31.9	33.0	34.3	34.3	33.0	31.9	33.0	30.7	31.9
72.5°	20.1	20.1	20.1	20.1	20.1	21.2	21.2	21.2	18.9	18.9	17.7
75°	9.4	13.0	10.6	9.4	13.0	13.0	11.8	11.8	10.6	10.6	10.6
77.5°	9.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	5.9	7.1	5.9
80°	4.7	4.7	4.7	3.5	4.7	4.7	5.9	4.7	4.7	3.5	5.9
82.5°	2.4	2.4	2.4	0.0	1.2	2.4	2.4	1.2	2.4	2.4	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: P245830

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2445.2	2444.0	2445.2	2446.3	2445.2	2444.0	2445.2	2446.3	2441.6	2440.5	2442.8
5°	2497.1	2497.1	2499.5	2500.7	2499.5	2497.1	2497.1	2492.4	2488.9	2485.3	2484.2
7.5°	2542.0	2544.4	2546.7	2547.9	2546.7	2544.4	2542.0	2534.9	2527.8	2521.9	2517.2
10°	2569.1	2572.7	2577.4	2579.7	2577.4	2572.7	2569.1	2560.9	2551.4	2542.0	2534.9
12.5°	2581.0	2584.5	2590.4	2589.2	2590.4	2584.5	2581.0	2569.1	2558.5	2545.5	2534.9
15°	2572.7	2577.4	2583.3	2585.7	2583.3	2577.4	2572.7	2560.9	2551.4	2537.3	2526.6
17.5°	2546.7	2553.8	2557.3	2560.9	2557.3	2553.8	2546.7	2537.3	2524.3	2512.5	2501.8
20°	2511.3	2516.0	2520.7	2521.9	2520.7	2516.0	2511.3	2500.7	2480.6	2478.2	2470.0
22.5°	2460.5	2464.1	2474.7	2471.1	2474.7	2464.1	2460.5	2451.1	2444.0	2431.0	2422.7
25°	2387.3	2390.8	2392.1	2393.2	2392.1	2390.8	2387.3	2379.0	2372.0	2362.5	2357.8
27.5°	2261.0	2261.0	2263.3	2264.5	2263.3	2261.0	2261.0	2255.1	2250.4	2245.6	2240.9
30°	2069.7	2069.7	2069.7	2075.6	2069.7	2069.7	2069.7	2068.5	2068.5	2069.7	2069.7
32.5°	1848.9	1846.6	1844.2	1846.6	1844.2	1846.6	1848.9	1850.1	1848.9	1852.5	1858.4
35°	1598.6	1597.4	1601.0	1596.3	1601.0	1597.4	1598.6	1598.6	1603.4	1608.1	1609.3
37.5°	1358.9	1356.6	1361.3	1356.6	1361.3	1356.6	1358.9	1357.8	1356.6	1358.9	1355.4
40°	1131.1	1133.4	1133.4	1142.9	1133.4	1133.4	1131.1	1128.7	1120.5	1115.7	1111.0
42.5°	912.7	919.8	917.4	924.5	917.4	919.8	912.7	907.9	898.5	890.2	883.2
45°	706.0	710.8	710.8	713.1	710.8	710.8	706.0	701.3	693.0	686.0	681.2
47.5°	541.9	541.9	541.9	543.1	541.9	541.9	541.9	533.6	531.3	526.6	520.7
50°	412.1	413.2	414.4	415.6	414.4	413.2	412.1	409.7	408.5	406.1	405.0
52.5°	316.4	317.6	315.3	317.6	315.3	317.6	316.4	317.6	314.0	314.0	312.9
55°	239.7	238.5	239.7	240.8	239.7	238.5	239.7	239.7	238.5	238.5	238.5
57.5°	175.9	173.5	173.5	173.5	173.5	173.5	175.9	174.8	178.3	175.9	177.1
60°	131.1	132.2	132.2	133.4	132.2	132.2	131.1	133.4	133.4	134.6	134.6
62.5°	96.8	100.4	98.0	100.4	98.0	100.4	96.8	98.0	98.0	99.2	100.4
65°	62.6	62.6	62.6	63.8	62.6	62.6	62.6	63.8	64.9	63.8	67.3
67.5°	42.5	43.7	46.1	44.9	46.1	43.7	42.5	43.7	43.7	47.2	46.1
70°	34.3	30.7	30.7	34.3	30.7	30.7	34.3	31.9	30.7	33.0	31.9
72.5°	20.1	17.7	20.1	20.1	20.1	17.7	20.1	17.7	18.9	18.9	21.2
75°	10.6	9.4	8.3	11.8	8.3	9.4	10.6	10.6	10.6	10.6	11.8
77.5°	7.1	5.9	8.3	8.3	8.3	5.9	7.1	5.9	7.1	5.9	7.1
80°	3.5	4.7	3.5	5.9	3.5	4.7	3.5	5.9	3.5	4.7	4.7
82.5°	1.2	2.4	2.4	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2
85°	0.0	2.4	1.2	1.2	1.2	2.4	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: P245830

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2442.8	2439.2	2440.5	2433.4	2433.4	2431.0	2432.2	2426.3	2423.9	2421.6	2425.1
5°	2478.2	2472.3	2467.6	2457.0	2451.1	2444.0	2440.5	2431.0	2422.7	2415.6	2414.5
7.5°	2506.6	2493.6	2485.3	2471.1	2460.5	2452.3	2440.5	2427.4	2416.8	2407.4	2400.3
10°	2518.4	2505.4	2492.4	2474.7	2462.9	2447.5	2435.7	2419.2	2405.0	2392.1	2383.7
12.5°	2519.5	2503.0	2491.2	2471.1	2455.8	2439.2	2426.3	2407.4	2390.8	2377.9	2364.9
15°	2508.9	2493.6	2479.4	2458.2	2442.8	2427.4	2412.1	2392.1	2376.7	2361.3	2351.9
17.5°	2485.3	2471.1	2454.6	2434.5	2420.4	2406.2	2389.7	2373.2	2355.4	2338.9	2327.1
20°	2454.6	2439.2	2425.1	2405.0	2393.2	2377.9	2362.5	2344.8	2330.6	2314.1	2301.1
22.5°	2408.6	2394.4	2381.4	2369.6	2350.7	2338.9	2328.3	2308.2	2294.0	2278.7	2264.5
25°	2342.4	2328.3	2317.7	2303.5	2295.2	2282.2	2271.6	2253.9	2240.9	2226.7	2214.9
27.5°	2233.8	2225.6	2219.6	2211.4	2204.3	2198.4	2192.5	2178.3	2168.9	2155.9	2144.1
30°	2070.9	2069.7	2066.2	2062.6	2067.3	2067.3	2067.3	2065.0	2056.7	2047.3	2039.0
32.5°	1861.9	1864.3	1869.0	1872.6	1882.0	1892.6	1902.1	1906.8	1906.8	1900.9	1897.3
35°	1612.8	1616.3	1623.4	1632.9	1644.7	1657.7	1678.9	1683.7	1687.2	1687.2	1682.4
37.5°	1354.2	1353.0	1360.1	1368.4	1375.5	1384.9	1400.3	1403.8	1409.7	1407.4	1402.6
40°	1102.7	1096.8	1094.5	1096.8	1105.1	1101.6	1105.1	1102.7	1102.7	1094.5	1094.5
42.5°	870.1	863.1	858.3	854.8	854.8	846.5	840.6	834.8	831.2	825.3	824.1
45°	670.6	662.3	656.5	654.1	650.6	639.9	632.8	625.7	617.5	615.1	616.3
47.5°	520.7	512.4	510.0	504.1	498.2	492.3	487.6	479.4	478.1	473.4	478.1
50°	401.4	399.1	395.5	393.2	389.6	384.9	380.2	375.5	373.1	373.1	374.2
52.5°	311.7	312.9	309.3	305.8	303.4	303.4	297.5	296.3	296.3	291.6	296.3
55°	238.5	237.3	238.5	236.1	236.1	232.6	232.6	229.0	229.0	225.5	227.9
57.5°	174.8	177.1	174.8	175.9	178.3	174.8	173.5	170.0	172.4	170.0	171.2
60°	135.8	135.8	135.8	134.6	134.6	133.4	133.4	132.2	132.2	129.9	132.2
62.5°	100.4	101.5	101.5	101.5	102.7	101.5	100.4	101.5	100.4	100.4	101.5
65°	66.1	67.3	67.3	66.1	68.5	66.1	67.3	68.5	69.6	68.5	69.6
67.5°	44.9	44.9	46.1	47.2	46.1	47.2	48.4	47.2	48.4	50.8	48.4
70°	33.0	34.3	34.3	33.0	31.9	33.0	31.9	35.4	35.4	35.4	37.8
72.5°	21.2	21.2	20.1	20.1	20.1	20.1	20.1	23.6	21.2	20.1	22.5
75°	11.8	13.0	13.0	9.4	10.6	13.0	9.4	10.6	14.2	11.8	14.2
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	9.4	8.3	8.3	8.3	9.4
80°	5.9	4.7	4.7	3.5	4.7	4.7	4.7	7.1	5.9	5.9	7.1
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.7
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	2.4	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: P245830

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2415.6	2415.6	2414.5	2412.1	2407.4	2407.4	2406.2	2402.7	2400.3	2399.1	2399.1
5°	2403.8	2399.1	2394.4	2381.4	2381.4	2379.0	2372.0	2367.2	2364.9	2359.0	2356.6
7.5°	2393.2	2379.0	2370.8	2362.5	2351.9	2347.2	2338.9	2335.3	2327.1	2321.2	2317.7
10°	2367.2	2357.8	2347.2	2334.2	2325.9	2316.5	2307.0	2300.0	2289.3	2283.4	2278.7
12.5°	2349.5	2335.3	2325.9	2311.7	2297.6	2289.3	2276.3	2268.1	2257.4	2245.6	2238.5
15°	2333.0	2317.7	2304.7	2289.3	2274.0	2264.5	2249.2	2239.8	2224.4	2212.6	2204.3
17.5°	2308.2	2295.2	2281.1	2262.2	2248.0	2236.2	2219.6	2207.9	2193.7	2178.3	2170.1
20°	2282.2	2266.9	2252.7	2233.8	2219.6	2205.5	2189.0	2176.0	2159.4	2145.3	2135.9
22.5°	2248.0	2230.3	2218.5	2199.6	2183.0	2167.7	2152.4	2137.0	2121.7	2109.9	2099.2
25°	2198.4	2179.5	2166.5	2151.2	2135.9	2124.0	2105.1	2095.7	2080.4	2069.7	2059.1
27.5°	2127.5	2113.4	2101.6	2086.2	2073.3	2063.8	2049.6	2040.2	2027.2	2017.8	2009.5
30°	2023.7	2011.9	2001.2	1985.9	1976.5	1968.2	1955.2	1946.9	1937.5	1926.8	1924.5
32.5°	1884.4	1874.9	1864.3	1853.6	1846.6	1841.8	1831.2	1826.5	1817.1	1811.1	1805.2
35°	1674.2	1665.9	1660.0	1655.3	1652.9	1654.1	1651.8	1656.5	1658.8	1657.7	1658.8
37.5°	1399.1	1394.4	1396.7	1400.3	1412.1	1427.5	1441.6	1462.8	1477.0	1491.2	1504.2
40°	1092.1	1095.7	1105.1	1126.3	1157.1	1191.3	1223.2	1263.3	1303.5	1331.8	1357.8
42.5°	824.1	834.8	858.3	889.0	935.1	985.8	1035.5	1094.5	1142.9	1190.1	1223.2
45°	619.9	634.0	664.7	707.2	758.0	817.0	879.6	945.7	1003.6	1052.0	1088.6
47.5°	482.9	495.9	526.6	571.5	634.0	695.4	760.4	828.8	889.0	936.3	968.2
50°	381.3	397.9	425.0	472.3	534.9	599.8	667.1	734.4	791.1	831.2	859.5
52.5°	299.9	315.3	341.2	390.8	454.6	519.5	582.1	648.2	697.8	736.7	755.6
55°	232.6	246.8	273.9	315.3	375.5	439.2	501.8	558.5	604.5	632.8	650.6
57.5°	177.1	187.7	206.6	247.9	302.3	361.3	414.4	471.1	506.5	526.6	538.4
60°	134.6	142.9	162.9	194.8	244.4	295.2	340.0	382.6	410.9	427.4	439.2
62.5°	101.5	111.0	125.1	152.3	190.1	231.4	269.2	301.1	324.7	335.3	343.6
65°	69.6	76.7	87.4	108.6	140.5	170.0	199.5	223.2	238.5	250.3	255.0
67.5°	52.0	56.7	62.6	79.1	101.5	125.1	145.2	161.7	178.3	183.0	191.3
70°	39.0	42.5	48.4	60.2	73.2	89.7	106.3	115.7	127.5	135.8	138.2
72.5°	24.8	26.0	31.9	39.0	49.6	60.2	70.9	79.1	86.2	90.9	93.3
75°	14.2	21.2	21.2	28.3	35.4	40.1	47.2	53.1	56.7	60.2	60.2
77.5°	9.4	13.0	14.2	17.7	21.2	27.2	33.0	36.6	40.1	41.3	41.3
80°	8.3	9.4	9.4	13.0	15.4	20.1	23.6	24.8	27.2	28.3	30.7
82.5°	3.5	4.7	5.9	9.4	10.6	10.6	14.2	15.4	17.7	18.9	18.9
85°	1.2	2.4	2.4	3.5	5.9	7.1	8.3	9.4	10.6	10.6	11.8
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.7	4.7	4.7	7.1	7.1
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: P245830

CATALOG NUMBER: LSR8B40D010 EC8B40835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2396.8	2397.9	2393.2	2392.1	2389.7	2390.8	2393.2
5°	2353.1	2354.3	2349.5	2344.8	2344.8	2343.6	2344.8
7.5°	2311.7	2312.9	2305.8	2303.5	2298.8	2300.0	2300.0
10°	2270.4	2270.4	2259.8	2258.6	2255.1	2253.9	2253.9
12.5°	2230.3	2226.7	2218.5	2213.8	2216.1	2209.0	2209.0
15°	2194.9	2189.0	2178.3	2174.8	2168.9	2166.5	2166.5
17.5°	2158.3	2153.5	2144.1	2137.0	2129.9	2128.8	2129.9
20°	2122.8	2118.1	2106.3	2101.6	2095.7	2095.7	2093.3
22.5°	2087.4	2082.7	2072.1	2068.5	2060.3	2060.3	2061.5
25°	2050.8	2047.3	2035.5	2033.1	2032.0	2027.2	2029.6
27.5°	2001.2	1998.9	1989.4	1985.9	1981.2	1980.0	1982.3
30°	1910.3	1906.8	1899.7	1896.2	1887.9	1889.1	1891.4
32.5°	1797.0	1792.3	1782.8	1779.2	1772.2	1769.8	1771.0
35°	1655.3	1651.8	1643.5	1643.5	1636.4	1634.0	1636.4
37.5°	1511.3	1514.8	1511.3	1514.8	1511.3	1510.1	1511.3
40°	1375.5	1388.5	1390.8	1403.8	1399.1	1406.2	1405.0
42.5°	1245.6	1266.8	1275.1	1285.7	1283.4	1288.1	1291.7
45°	1114.5	1132.3	1140.5	1147.6	1148.8	1151.2	1152.3
47.5°	990.6	1004.8	1005.9	1014.2	1013.0	1013.0	1016.6
50°	874.9	884.3	886.7	892.6	887.9	885.5	886.7
52.5°	767.4	776.9	774.5	776.9	771.0	768.6	769.8
55°	657.6	662.3	662.3	662.3	655.3	655.3	655.3
57.5°	545.5	546.7	544.3	545.5	544.3	537.2	536.0
60°	442.8	442.8	441.6	442.8	439.2	435.7	435.7
62.5°	345.9	348.3	353.0	348.3	345.9	348.3	344.7
65°	258.6	263.3	262.1	264.5	263.3	263.3	260.9
67.5°	194.8	196.0	197.2	198.4	198.4	198.4	198.4
70°	142.9	146.4	145.2	145.2	145.2	145.2	152.3
72.5°	95.6	100.4	99.2	101.5	101.5	103.9	101.5
75°	64.9	69.6	67.3	70.9	69.6	67.3	73.2
77.5°	43.7	46.1	47.2	48.4	47.2	46.1	47.2
80°	30.7	33.0	31.9	33.0	33.0	33.0	34.3
82.5°	18.9	22.5	21.2	22.5	21.2	22.5	22.5
85°	13.0	14.2	11.8	14.2	13.0	13.0	15.4
87.5°	8.3	7.1	7.1	8.3	7.1	8.3	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)