

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: P245818

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245818
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 EC8B40827 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3821.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

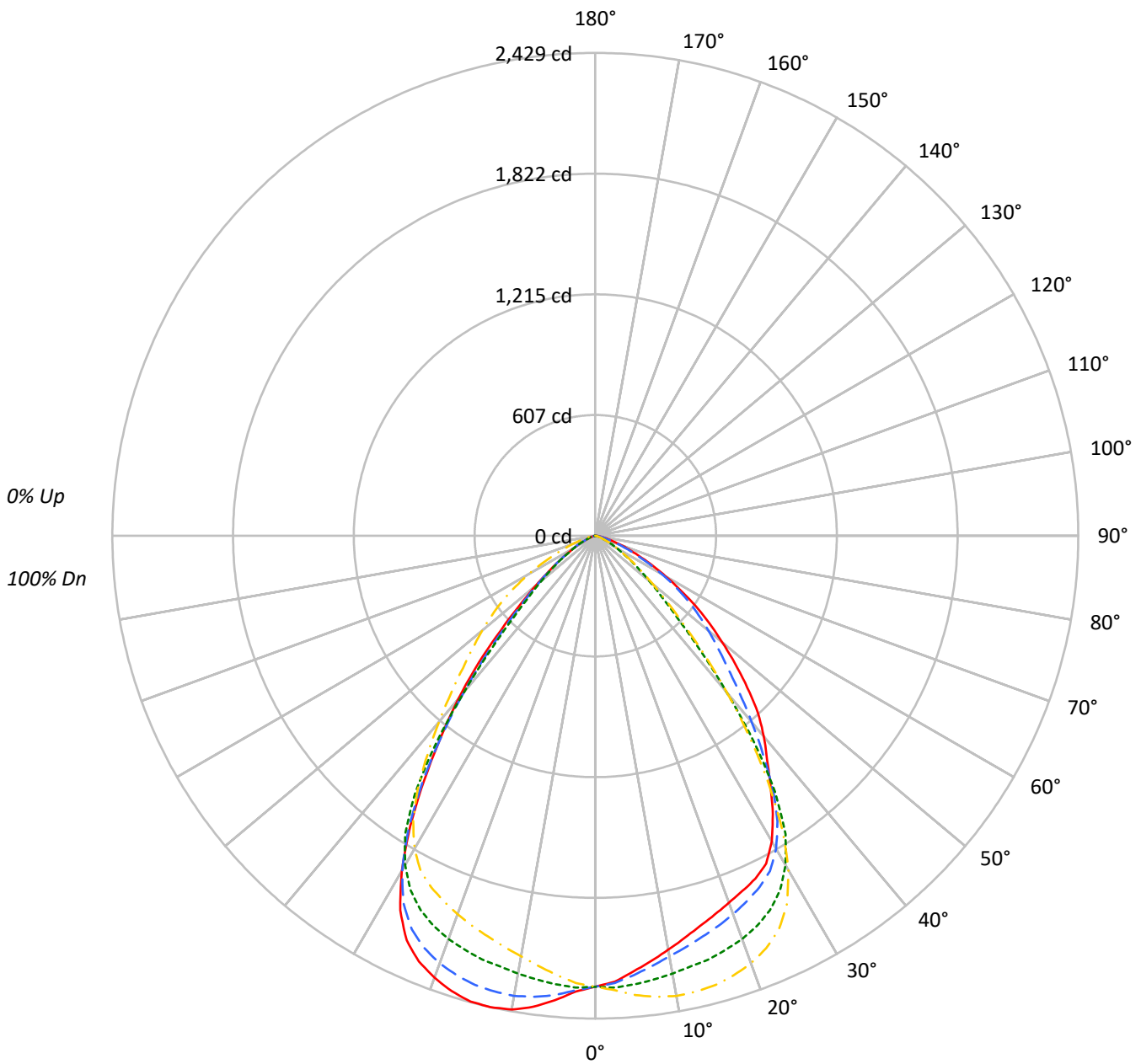
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	69949	69949	69949	69949
5°	68090	70114	72618	70114
10°	66206	70023	75778	70023
15°	64886	70437	77438	70437
20°	64443	70842	77638	70842
25°	64782	70699	76391	70699
30°	63181	68109	69333	68109
35°	57791	59414	56372	59414
40°	53059	41329	43160	41329
45°	47141	25215	29175	25215
50°	39904	16843	18705	16843
55°	33047	11494	12145	11494
60°	25206	7654	7715	7654
65°	17862	4765	4363	4765
70°	12884	3192	2894	3192
75°	8185	1585	1322	1585
80°	5700	1190	977	1190
85°	5095	0	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	5.7
10°-20°	625.2	16.4
20°-30°	946.7	24.8
30°-40°	948.9	24.8
40°-50°	595.8	15.6
50°-60°	317.5	8.3
60°-70°	130.6	3.4
70°-80°	34.5	0.9
80°-90°	5.8	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°	1787.9	46.8
0°-40°	2736.7	71.6
0°-60°	3650.1	95.5
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2268	2268	2268	2268	2268	
5°	2200	2265	2346	2265	2200	207
15°	2032	2206	2426	2206	2032	575
25°	1904	2078	2245	2078	1904	873
35°	1535	1578	1498	1578	1535	962
45°	1081	578	669	578	1081	831
55°	615	214	226	214	615	548
65°	245	65	60	65	245	254
75°	69	13	11	13	69	78
85°	14	0	1	0	14	16
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°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2245.2	2242.9	2241.8	2244.1	2245.2	2249.6	2248.5	2250.7	2250.7	2251.8	2254.0
5°	2199.7	2198.6	2199.7	2199.7	2204.2	2208.6	2207.5	2210.8	2213.0	2218.6	2220.8
7.5°	2157.7	2157.7	2156.5	2160.9	2163.2	2169.8	2168.7	2174.3	2177.6	2183.1	2190.9
10°	2114.4	2114.4	2115.5	2118.9	2120.0	2129.9	2129.9	2137.7	2142.1	2147.7	2157.7
12.5°	2072.4	2072.4	2079.0	2076.8	2081.2	2089.0	2092.3	2100.0	2106.7	2117.8	2127.8
15°	2032.5	2032.5	2034.7	2040.2	2043.6	2053.5	2059.1	2067.9	2075.7	2086.8	2101.2
17.5°	1998.1	1997.1	1998.1	2004.8	2011.5	2020.3	2024.7	2035.8	2043.6	2058.0	2071.3
20°	1963.8	1966.0	1966.0	1971.6	1976.0	1987.1	1991.5	2003.7	2012.6	2025.8	2041.4
22.5°	1933.9	1932.8	1932.8	1940.6	1943.9	1953.8	1958.3	1969.3	1979.3	1990.4	2004.8
25°	1904.0	1901.8	1906.2	1907.3	1909.5	1920.6	1923.9	1931.7	1941.7	1951.6	1966.0
27.5°	1859.7	1857.5	1858.6	1863.0	1866.3	1875.2	1877.4	1885.2	1892.9	1901.8	1914.0
30°	1774.4	1772.2	1771.1	1778.9	1782.2	1788.8	1792.1	1805.4	1807.6	1817.6	1826.5
32.5°	1661.4	1660.3	1662.6	1669.2	1672.5	1681.4	1685.8	1693.6	1699.1	1704.6	1713.5
35°	1535.2	1532.9	1535.2	1541.8	1541.8	1549.6	1552.9	1556.2	1555.1	1556.2	1554.0
37.5°	1417.8	1416.6	1417.8	1421.1	1417.8	1421.1	1417.8	1411.1	1398.9	1385.6	1372.3
40°	1318.1	1319.2	1312.6	1317.0	1304.8	1302.6	1290.4	1273.8	1249.4	1222.8	1185.2
42.5°	1211.8	1208.4	1204.0	1206.2	1196.3	1188.5	1168.5	1147.5	1116.5	1072.2	1026.7
45°	1081.0	1080.0	1077.7	1076.6	1070.0	1062.2	1045.6	1021.2	986.9	941.5	887.2
47.5°	953.7	950.3	950.3	951.4	943.7	942.6	929.3	908.3	878.3	834.0	777.5
50°	831.8	830.7	832.9	837.4	831.8	829.6	820.8	806.4	779.8	742.1	688.9
52.5°	722.2	721.1	723.3	728.8	726.6	728.8	720.0	708.9	691.2	654.6	608.1
55°	614.7	614.7	614.7	621.4	621.4	621.4	616.9	610.3	593.7	567.1	523.9
57.5°	502.9	504.0	510.6	511.7	510.6	512.8	511.7	505.1	494.0	475.2	442.0
60°	408.7	408.7	412.0	415.4	414.2	415.4	415.4	412.0	401.0	385.5	358.9
62.5°	323.4	326.7	324.5	326.7	331.2	326.7	324.5	322.3	314.6	304.6	282.4
65°	244.8	247.0	247.0	248.1	245.9	247.0	242.6	239.3	234.8	223.8	209.4
67.5°	186.1	186.1	186.1	186.1	185.0	183.9	182.8	179.4	171.7	167.3	151.7
70°	142.9	136.2	136.2	136.2	136.2	137.4	134.0	129.6	127.4	119.6	108.6
72.5°	95.2	97.5	95.2	95.2	93.1	94.1	89.7	87.5	85.3	80.9	74.2
75°	68.7	63.1	65.3	66.5	63.1	65.3	60.9	56.5	56.5	53.2	49.8
77.5°	44.3	43.2	44.3	45.4	44.3	43.2	41.0	38.8	38.8	37.7	34.3
80°	32.1	31.0	31.0	31.0	29.9	31.0	28.8	28.8	26.6	25.5	23.3
82.5°	21.1	21.1	19.9	21.1	19.9	21.1	17.7	17.7	17.7	16.6	14.4
85°	14.4	12.2	12.2	13.3	11.1	13.3	12.2	11.1	10.0	10.0	8.8
87.5°	6.7	7.8	6.7	7.8	6.7	6.7	7.8	6.7	6.7	4.4	4.4
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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2257.3	2258.4	2258.4	2262.9	2265.1	2266.2	2266.2	2275.1	2271.7	2274.0	2276.2
5°	2225.2	2231.8	2234.1	2234.1	2246.2	2250.7	2255.1	2265.1	2266.2	2272.8	2280.6
7.5°	2194.2	2201.9	2206.4	2216.3	2224.1	2231.8	2245.2	2251.8	2258.4	2267.3	2277.3
10°	2164.3	2173.2	2182.0	2189.8	2201.9	2211.9	2220.8	2236.3	2244.1	2256.2	2269.5
12.5°	2135.5	2147.7	2155.4	2168.7	2182.0	2190.9	2204.2	2218.6	2230.7	2242.9	2258.4
15°	2110.0	2124.4	2133.3	2147.7	2162.1	2174.3	2188.7	2206.4	2215.2	2229.7	2244.1
17.5°	2082.3	2097.9	2108.9	2122.2	2139.9	2153.2	2165.4	2183.1	2194.2	2209.7	2226.3
20°	2053.5	2069.0	2082.3	2095.6	2113.4	2126.6	2141.0	2158.8	2170.9	2186.4	2199.7
22.5°	2019.2	2033.6	2048.0	2063.5	2081.2	2092.3	2108.9	2124.4	2137.7	2152.1	2165.4
25°	1974.9	1992.6	2003.7	2018.1	2032.5	2044.6	2062.4	2077.9	2089.0	2102.3	2114.4
27.5°	1922.8	1936.1	1945.0	1957.2	1971.6	1982.6	1995.9	2011.5	2022.5	2034.7	2043.6
30°	1834.2	1846.4	1854.2	1863.0	1877.4	1887.4	1898.5	1912.8	1920.6	1929.5	1937.2
32.5°	1717.9	1727.9	1732.3	1739.0	1748.9	1758.9	1767.8	1779.9	1783.3	1788.8	1788.8
35°	1549.6	1551.8	1550.7	1552.9	1557.3	1562.8	1570.6	1578.3	1582.8	1582.8	1579.5
37.5°	1352.4	1339.1	1324.7	1313.6	1310.3	1308.1	1312.6	1315.8	1320.3	1322.5	1317.0
40°	1147.5	1117.6	1085.5	1056.7	1036.7	1027.9	1024.6	1026.7	1026.7	1034.5	1034.5
42.5°	971.4	924.9	877.3	834.0	805.2	783.1	773.1	773.1	774.2	779.8	783.1
45°	825.2	766.5	711.1	663.5	623.6	594.8	581.5	578.2	577.1	579.3	587.0
47.5°	713.3	652.4	594.8	536.1	494.0	465.2	453.0	448.6	444.1	448.6	449.7
50°	625.8	562.7	501.8	443.0	398.7	373.3	357.7	351.1	350.0	350.0	352.2
52.5°	546.0	487.4	426.5	366.6	320.1	295.7	281.3	278.0	273.6	278.0	278.0
55°	470.7	412.0	352.2	295.7	256.9	231.5	218.2	213.8	211.5	214.9	214.9
57.5°	388.8	338.9	283.6	232.6	193.9	176.1	166.1	160.6	159.5	161.7	159.5
60°	319.0	276.9	229.3	182.8	152.9	134.0	126.3	124.1	121.8	124.1	124.1
62.5°	252.5	217.1	178.3	142.9	117.4	104.1	95.2	95.2	94.1	94.1	95.2
65°	187.2	159.5	131.8	101.9	82.0	72.0	65.3	65.3	64.2	65.3	64.2
67.5°	136.2	117.4	95.2	74.2	58.7	53.2	48.7	45.4	47.6	45.4	44.3
70°	99.7	84.2	68.7	56.5	45.4	39.9	36.6	35.4	33.2	33.2	33.2
72.5°	66.5	56.5	46.5	36.6	29.9	24.3	23.3	21.1	18.8	19.9	22.2
75°	44.3	37.7	33.2	26.6	19.9	19.9	13.3	13.3	11.1	13.3	10.0
77.5°	31.0	25.5	19.9	16.6	13.3	12.2	8.8	8.8	7.8	7.8	7.8
80°	22.2	18.8	14.4	12.2	8.8	8.8	7.8	6.7	5.5	5.5	6.7
82.5°	13.3	10.0	10.0	8.8	5.5	4.4	3.3	4.4	2.2	2.2	2.2
85°	7.8	6.7	5.5	3.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.4	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2281.7	2280.6	2282.8	2282.8	2289.5	2288.3	2291.7	2291.7	2289.5	2290.6	2295.0
5°	2289.5	2292.8	2299.4	2305.0	2314.9	2319.4	2324.9	2330.5	2331.5	2334.9	2338.2
7.5°	2289.5	2300.5	2308.3	2318.2	2331.5	2339.3	2351.5	2361.5	2365.9	2371.4	2378.1
10°	2285.0	2296.1	2310.5	2321.6	2338.2	2350.4	2362.6	2378.1	2384.7	2393.6	2402.4
12.5°	2276.2	2288.3	2303.8	2318.2	2337.1	2348.1	2363.6	2378.1	2388.0	2400.2	2410.2
15°	2262.9	2277.3	2291.7	2306.1	2326.0	2339.3	2353.7	2370.3	2380.3	2393.6	2402.4
17.5°	2241.8	2257.3	2270.6	2283.9	2302.7	2318.2	2331.5	2347.1	2357.0	2368.1	2380.3
20°	2216.3	2230.7	2245.2	2256.2	2275.1	2288.3	2302.7	2317.1	2324.9	2327.1	2346.0
22.5°	2184.2	2194.2	2205.3	2223.0	2234.1	2246.2	2259.6	2272.8	2280.6	2292.8	2299.4
25°	2131.0	2141.0	2153.2	2160.9	2174.3	2184.2	2197.5	2211.9	2216.3	2225.2	2231.8
27.5°	2056.9	2062.4	2067.9	2074.6	2082.3	2087.9	2095.6	2102.3	2106.7	2111.1	2115.5
30°	1939.4	1939.4	1939.4	1935.0	1938.3	1941.7	1942.8	1941.7	1941.7	1940.6	1940.6
32.5°	1784.4	1775.5	1765.5	1756.7	1753.4	1748.9	1746.7	1743.4	1737.9	1734.5	1735.6
35°	1575.0	1555.1	1542.9	1531.8	1523.0	1516.3	1513.0	1509.7	1508.6	1504.2	1499.7
37.5°	1313.6	1299.2	1290.4	1283.7	1276.0	1269.3	1270.4	1271.6	1274.9	1272.7	1273.8
40°	1036.7	1033.4	1036.7	1029.0	1026.7	1029.0	1034.5	1042.3	1046.7	1051.1	1058.9
42.5°	788.6	794.1	801.9	801.9	805.2	809.7	816.3	828.5	835.1	842.9	851.8
45°	593.7	600.3	610.3	613.6	615.8	621.4	629.2	639.1	643.5	650.2	657.9
47.5°	457.5	461.9	467.4	473.0	478.5	480.7	488.5	488.5	494.0	498.4	500.6
50°	356.7	361.1	365.5	368.8	371.1	374.4	376.6	379.9	381.0	383.2	384.3
52.5°	279.1	284.7	284.7	286.9	290.2	293.5	292.4	293.5	294.6	294.6	297.9
55°	218.2	218.2	221.5	221.5	223.8	222.6	223.8	223.8	223.8	223.8	224.9
57.5°	162.8	163.9	167.3	165.0	163.9	166.1	163.9	166.1	165.0	167.3	163.9
60°	125.1	125.1	126.3	126.3	127.4	127.4	127.4	126.3	126.3	125.1	125.1
62.5°	94.1	95.2	96.4	95.2	95.2	95.2	94.1	94.1	93.1	91.9	91.9
65°	63.1	62.0	64.2	62.0	63.1	63.1	62.0	63.1	59.8	60.9	59.8
67.5°	45.4	44.3	43.2	44.3	43.2	42.1	42.1	43.2	44.3	41.0	41.0
70°	29.9	31.0	29.9	31.0	32.1	32.1	31.0	29.9	31.0	28.8	29.9
72.5°	18.8	18.8	18.8	18.8	18.8	19.9	19.9	19.9	17.7	17.7	16.6
75°	8.8	12.2	10.0	8.8	12.2	12.2	11.1	11.1	10.0	10.0	10.0
77.5°	8.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.5	6.7	5.5
80°	4.4	4.4	4.4	3.3	4.4	4.4	5.5	4.4	4.4	3.3	5.5
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	1.1
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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2293.9	2292.8	2293.9	2295.0	2293.9	2292.8	2293.9	2295.0	2290.6	2289.5	2291.7
5°	2342.6	2342.6	2344.8	2346.0	2344.8	2342.6	2342.6	2338.2	2334.9	2331.5	2330.5
7.5°	2384.7	2386.9	2389.1	2390.2	2389.1	2386.9	2384.7	2378.1	2371.4	2365.9	2361.5
10°	2410.2	2413.5	2417.9	2420.1	2417.9	2413.5	2410.2	2402.4	2393.6	2384.7	2378.1
12.5°	2421.3	2424.6	2430.1	2429.0	2430.1	2424.6	2421.3	2410.2	2400.2	2388.0	2378.1
15°	2413.5	2417.9	2423.5	2425.7	2423.5	2417.9	2413.5	2402.4	2393.6	2380.3	2370.3
17.5°	2389.1	2395.8	2399.1	2402.4	2399.1	2395.8	2389.1	2380.3	2368.1	2357.0	2347.1
20°	2355.9	2360.4	2364.8	2365.9	2364.8	2360.4	2355.9	2346.0	2327.1	2324.9	2317.1
22.5°	2308.3	2311.6	2321.6	2318.2	2321.6	2311.6	2308.3	2299.4	2292.8	2280.6	2272.8
25°	2239.6	2242.9	2244.1	2245.2	2244.1	2242.9	2239.6	2231.8	2225.2	2216.3	2211.9
27.5°	2121.1	2121.1	2123.3	2124.4	2123.3	2121.1	2121.1	2115.5	2111.1	2106.7	2102.3
30°	1941.7	1941.7	1941.7	1947.2	1941.7	1941.7	1941.7	1940.6	1940.6	1941.7	1941.7
32.5°	1734.5	1732.3	1730.1	1732.3	1730.1	1732.3	1734.5	1735.6	1734.5	1737.9	1743.4
35°	1499.7	1498.6	1501.9	1497.5	1501.9	1498.6	1499.7	1499.7	1504.2	1508.6	1509.7
37.5°	1274.9	1272.7	1277.1	1272.7	1277.1	1272.7	1274.9	1273.8	1272.7	1274.9	1271.6
40°	1061.1	1063.3	1063.3	1072.2	1063.3	1063.3	1061.1	1058.9	1051.1	1046.7	1042.3
42.5°	856.2	862.8	860.6	867.3	860.6	862.8	856.2	851.8	842.9	835.1	828.5
45°	662.3	666.8	666.8	669.0	666.8	666.8	662.3	657.9	650.2	643.5	639.1
47.5°	508.4	508.4	508.4	509.5	508.4	508.4	508.4	500.6	498.4	494.0	488.5
50°	386.6	387.7	388.8	389.9	388.8	387.7	386.6	384.3	383.2	381.0	379.9
52.5°	296.8	297.9	295.7	297.9	295.7	297.9	296.8	297.9	294.6	294.6	293.5
55°	224.9	223.8	224.9	225.9	224.9	223.8	224.9	224.9	223.8	223.8	223.8
57.5°	165.0	162.8	162.8	162.8	162.8	162.8	165.0	163.9	167.3	165.0	166.1
60°	123.0	124.1	124.1	125.1	124.1	124.1	123.0	125.1	125.1	126.3	126.3
62.5°	90.8	94.1	91.9	94.1	91.9	94.1	90.8	91.9	91.9	93.1	94.1
65°	58.7	58.7	58.7	59.8	58.7	58.7	58.7	59.8	60.9	59.8	63.1
67.5°	39.9	41.0	43.2	42.1	43.2	41.0	39.9	41.0	41.0	44.3	43.2
70°	32.1	28.8	28.8	32.1	28.8	28.8	32.1	29.9	28.8	31.0	29.9
72.5°	18.8	16.6	18.8	18.8	18.8	16.6	18.8	16.6	17.7	17.7	19.9
75°	10.0	8.8	7.8	11.1	7.8	8.8	10.0	10.0	10.0	10.0	11.1
77.5°	6.7	5.5	7.8	7.8	7.8	5.5	6.7	5.5	6.7	5.5	6.7
80°	3.3	4.4	3.3	5.5	3.3	4.4	3.3	5.5	3.3	4.4	4.4
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2291.7	2288.3	2289.5	2282.8	2282.8	2280.6	2281.7	2276.2	2274.0	2271.7	2275.1
5°	2324.9	2319.4	2314.9	2305.0	2299.4	2292.8	2289.5	2280.6	2272.8	2266.2	2265.1
7.5°	2351.5	2339.3	2331.5	2318.2	2308.3	2300.5	2289.5	2277.3	2267.3	2258.4	2251.8
10°	2362.6	2350.4	2338.2	2321.6	2310.5	2296.1	2285.0	2269.5	2256.2	2244.1	2236.3
12.5°	2363.6	2348.1	2337.1	2318.2	2303.8	2288.3	2276.2	2258.4	2242.9	2230.7	2218.6
15°	2353.7	2339.3	2326.0	2306.1	2291.7	2277.3	2262.9	2244.1	2229.7	2215.2	2206.4
17.5°	2331.5	2318.2	2302.7	2283.9	2270.6	2257.3	2241.8	2226.3	2209.7	2194.2	2183.1
20°	2302.7	2288.3	2275.1	2256.2	2245.2	2230.7	2216.3	2199.7	2186.4	2170.9	2158.8
22.5°	2259.6	2246.2	2234.1	2223.0	2205.3	2194.2	2184.2	2165.4	2152.1	2137.7	2124.4
25°	2197.5	2184.2	2174.3	2160.9	2153.2	2141.0	2131.0	2114.4	2102.3	2089.0	2077.9
27.5°	2095.6	2087.9	2082.3	2074.6	2067.9	2062.4	2056.9	2043.6	2034.7	2022.5	2011.5
30°	1942.8	1941.7	1938.3	1935.0	1939.4	1939.4	1939.4	1937.2	1929.5	1920.6	1912.8
32.5°	1746.7	1748.9	1753.4	1756.7	1765.5	1775.5	1784.4	1788.8	1788.8	1783.3	1779.9
35°	1513.0	1516.3	1523.0	1531.8	1542.9	1555.1	1575.0	1579.5	1582.8	1582.8	1578.3
37.5°	1270.4	1269.3	1276.0	1283.7	1290.4	1299.2	1313.6	1317.0	1322.5	1320.3	1315.8
40°	1034.5	1029.0	1026.7	1029.0	1036.7	1033.4	1036.7	1034.5	1034.5	1026.7	1026.7
42.5°	816.3	809.7	805.2	801.9	801.9	794.1	788.6	783.1	779.8	774.2	773.1
45°	629.2	621.4	615.8	613.6	610.3	600.3	593.7	587.0	579.3	577.1	578.2
47.5°	488.5	480.7	478.5	473.0	467.4	461.9	457.5	449.7	448.6	444.1	448.6
50°	376.6	374.4	371.1	368.8	365.5	361.1	356.7	352.2	350.0	350.0	351.1
52.5°	292.4	293.5	290.2	286.9	284.7	284.7	279.1	278.0	278.0	273.6	278.0
55°	223.8	222.6	223.8	221.5	221.5	218.2	218.2	214.9	214.9	211.5	213.8
57.5°	163.9	166.1	163.9	165.0	167.3	163.9	162.8	159.5	161.7	159.5	160.6
60°	127.4	127.4	127.4	126.3	126.3	125.1	125.1	124.1	124.1	121.8	124.1
62.5°	94.1	95.2	95.2	95.2	96.4	95.2	94.1	95.2	94.1	94.1	95.2
65°	62.0	63.1	63.1	62.0	64.2	62.0	63.1	64.2	65.3	64.2	65.3
67.5°	42.1	42.1	43.2	44.3	43.2	44.3	45.4	44.3	45.4	47.6	45.4
70°	31.0	32.1	32.1	31.0	29.9	31.0	29.9	33.2	33.2	33.2	35.4
72.5°	19.9	19.9	18.8	18.8	18.8	18.8	18.8	22.2	19.9	18.8	21.1
75°	11.1	12.2	12.2	8.8	10.0	12.2	8.8	10.0	13.3	11.1	13.3
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	8.8	7.8	7.8	7.8	8.8
80°	5.5	4.4	4.4	3.3	4.4	4.4	4.4	6.7	5.5	5.5	6.7
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2266.2	2266.2	2265.1	2262.9	2258.4	2258.4	2257.3	2254.0	2251.8	2250.7	2250.7
5°	2255.1	2250.7	2246.2	2234.1	2234.1	2231.8	2225.2	2220.8	2218.6	2213.0	2210.8
7.5°	2245.2	2231.8	2224.1	2216.3	2206.4	2201.9	2194.2	2190.9	2183.1	2177.6	2174.3
10°	2220.8	2211.9	2201.9	2189.8	2182.0	2173.2	2164.3	2157.7	2147.7	2142.1	2137.7
12.5°	2204.2	2190.9	2182.0	2168.7	2155.4	2147.7	2135.5	2127.8	2117.8	2106.7	2100.0
15°	2188.7	2174.3	2162.1	2147.7	2133.3	2124.4	2110.0	2101.2	2086.8	2075.7	2067.9
17.5°	2165.4	2153.2	2139.9	2122.2	2108.9	2097.9	2082.3	2071.3	2058.0	2043.6	2035.8
20°	2141.0	2126.6	2113.4	2095.6	2082.3	2069.0	2053.5	2041.4	2025.8	2012.6	2003.7
22.5°	2108.9	2092.3	2081.2	2063.5	2048.0	2033.6	2019.2	2004.8	1990.4	1979.3	1969.3
25°	2062.4	2044.6	2032.5	2018.1	2003.7	1992.6	1974.9	1966.0	1951.6	1941.7	1931.7
27.5°	1995.9	1982.6	1971.6	1957.2	1945.0	1936.1	1922.8	1914.0	1901.8	1892.9	1885.2
30°	1898.5	1887.4	1877.4	1863.0	1854.2	1846.4	1834.2	1826.5	1817.6	1807.6	1805.4
32.5°	1767.8	1758.9	1748.9	1739.0	1732.3	1727.9	1717.9	1713.5	1704.6	1699.1	1693.6
35°	1570.6	1562.8	1557.3	1552.9	1550.7	1551.8	1549.6	1554.0	1556.2	1555.1	1556.2
37.5°	1312.6	1308.1	1310.3	1313.6	1324.7	1339.1	1352.4	1372.3	1385.6	1398.9	1411.1
40°	1024.6	1027.9	1036.7	1056.7	1085.5	1117.6	1147.5	1185.2	1222.8	1249.4	1273.8
42.5°	773.1	783.1	805.2	834.0	877.3	924.9	971.4	1026.7	1072.2	1116.5	1147.5
45°	581.5	594.8	623.6	663.5	711.1	766.5	825.2	887.2	941.5	986.9	1021.2
47.5°	453.0	465.2	494.0	536.1	594.8	652.4	713.3	777.5	834.0	878.3	908.3
50°	357.7	373.3	398.7	443.0	501.8	562.7	625.8	688.9	742.1	779.8	806.4
52.5°	281.3	295.7	320.1	366.6	426.5	487.4	546.0	608.1	654.6	691.2	708.9
55°	218.2	231.5	256.9	295.7	352.2	412.0	470.7	523.9	567.1	593.7	610.3
57.5°	166.1	176.1	193.9	232.6	283.6	338.9	388.8	442.0	475.2	494.0	505.1
60°	126.3	134.0	152.9	182.8	229.3	276.9	319.0	358.9	385.5	401.0	412.0
62.5°	95.2	104.1	117.4	142.9	178.3	217.1	252.5	282.4	304.6	314.6	322.3
65°	65.3	72.0	82.0	101.9	131.8	159.5	187.2	209.4	223.8	234.8	239.3
67.5°	48.7	53.2	58.7	74.2	95.2	117.4	136.2	151.7	167.3	171.7	179.4
70°	36.6	39.9	45.4	56.5	68.7	84.2	99.7	108.6	119.6	127.4	129.6
72.5°	23.3	24.3	29.9	36.6	46.5	56.5	66.5	74.2	80.9	85.3	87.5
75°	13.3	19.9	19.9	26.6	33.2	37.7	44.3	49.8	53.2	56.5	56.5
77.5°	8.8	12.2	13.3	16.6	19.9	25.5	31.0	34.3	37.7	38.8	38.8
80°	7.8	8.8	8.8	12.2	14.4	18.8	22.2	23.3	25.5	26.6	28.8
82.5°	3.3	4.4	5.5	8.8	10.0	10.0	13.3	14.4	16.6	17.7	17.7
85°	1.1	2.2	2.2	3.3	5.5	6.7	7.8	8.8	10.0	10.0	11.1
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.4	4.4	4.4	6.7	6.7
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: P245818

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2248.5	2249.6	2245.2	2244.1	2241.8	2242.9	2245.2
5°	2207.5	2208.6	2204.2	2199.7	2199.7	2198.6	2199.7
7.5°	2168.7	2169.8	2163.2	2160.9	2156.5	2157.7	2157.7
10°	2129.9	2129.9	2120.0	2118.9	2115.5	2114.4	2114.4
12.5°	2092.3	2089.0	2081.2	2076.8	2079.0	2072.4	2072.4
15°	2059.1	2053.5	2043.6	2040.2	2034.7	2032.5	2032.5
17.5°	2024.7	2020.3	2011.5	2004.8	1998.1	1997.1	1998.1
20°	1991.5	1987.1	1976.0	1971.6	1966.0	1966.0	1963.8
22.5°	1958.3	1953.8	1943.9	1940.6	1932.8	1932.8	1933.9
25°	1923.9	1920.6	1909.5	1907.3	1906.2	1901.8	1904.0
27.5°	1877.4	1875.2	1866.3	1863.0	1858.6	1857.5	1859.7
30°	1792.1	1788.8	1782.2	1778.9	1771.1	1772.2	1774.4
32.5°	1685.8	1681.4	1672.5	1669.2	1662.6	1660.3	1661.4
35°	1552.9	1549.6	1541.8	1541.8	1535.2	1532.9	1535.2
37.5°	1417.8	1421.1	1417.8	1421.1	1417.8	1416.6	1417.8
40°	1290.4	1302.6	1304.8	1317.0	1312.6	1319.2	1318.1
42.5°	1168.5	1188.5	1196.3	1206.2	1204.0	1208.4	1211.8
45°	1045.6	1062.2	1070.0	1076.6	1077.7	1080.0	1081.0
47.5°	929.3	942.6	943.7	951.4	950.3	950.3	953.7
50°	820.8	829.6	831.8	837.4	832.9	830.7	831.8
52.5°	720.0	728.8	726.6	728.8	723.3	721.1	722.2
55°	616.9	621.4	621.4	621.4	614.7	614.7	614.7
57.5°	511.7	512.8	510.6	511.7	510.6	504.0	502.9
60°	415.4	415.4	414.2	415.4	412.0	408.7	408.7
62.5°	324.5	326.7	331.2	326.7	324.5	326.7	323.4
65°	242.6	247.0	245.9	248.1	247.0	247.0	244.8
67.5°	182.8	183.9	185.0	186.1	186.1	186.1	186.1
70°	134.0	137.4	136.2	136.2	136.2	136.2	142.9
72.5°	89.7	94.1	93.1	95.2	95.2	97.5	95.2
75°	60.9	65.3	63.1	66.5	65.3	63.1	68.7
77.5°	41.0	43.2	44.3	45.4	44.3	43.2	44.3
80°	28.8	31.0	29.9	31.0	31.0	31.0	32.1
82.5°	17.7	21.1	19.9	21.1	19.9	21.1	21.1
85°	12.2	13.3	11.1	13.3	12.2	12.2	14.4
87.5°	7.8	6.7	6.7	7.8	6.7	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)