

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: METALUX

Report Number: P232509

Luminaire Tested: **8SKB1-LD5-6-N-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SKB1-LD5-6-N-UNV-L850-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6636.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

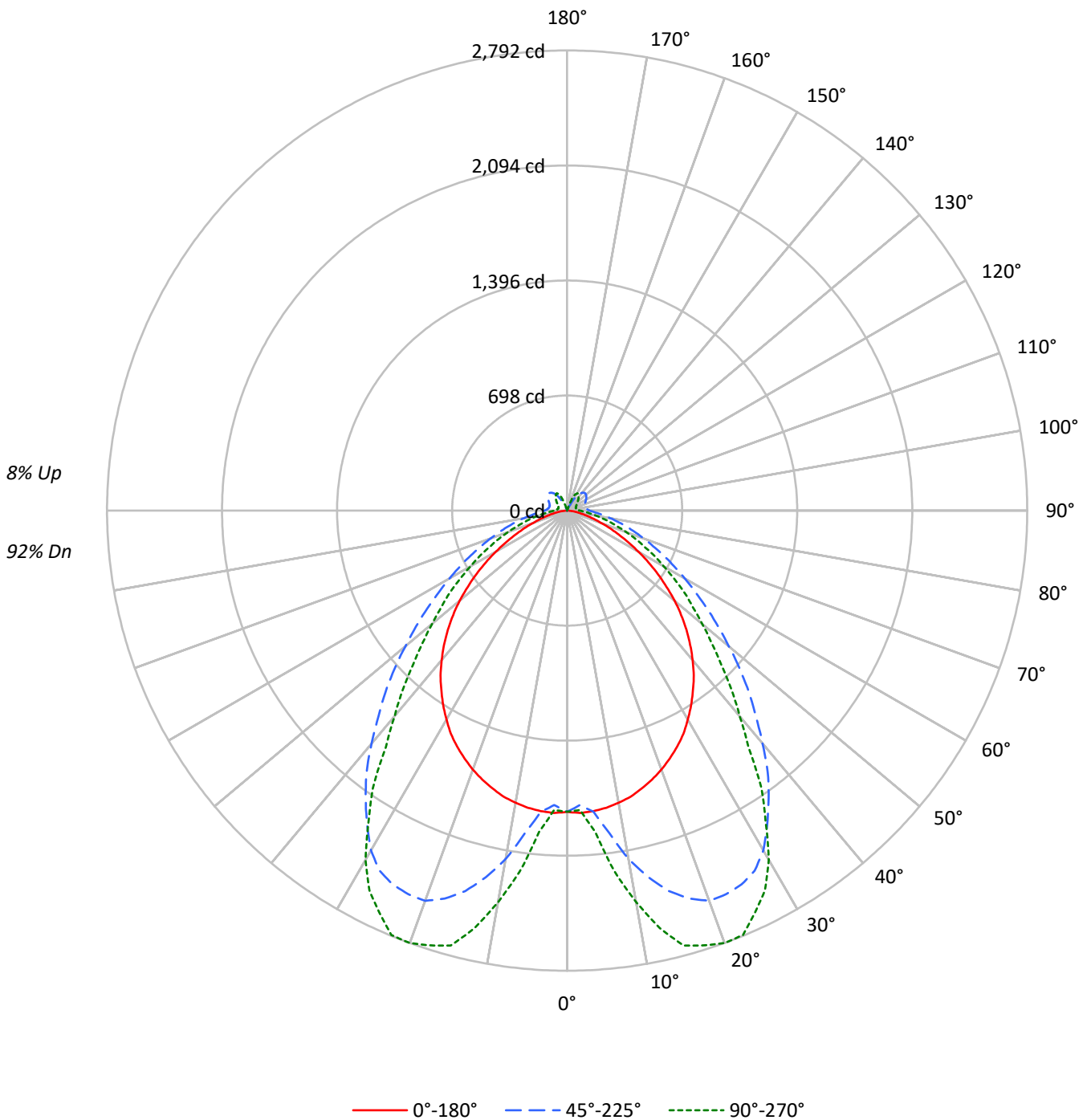
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	107	103	98	95	104	99	96	92	94	91	88	88	86	84	84	82	80	77
2	98	90	84	78	95	88	82	77	83	78	74	78	74	71	74	71	68	65
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	66	62	58	56
4	83	71	63	56	80	69	62	56	66	59	54	63	57	52	60	55	51	48
5	76	64	55	49	74	62	54	48	59	52	47	56	51	46	54	49	45	42
6	70	58	49	43	68	56	48	42	54	47	41	51	45	40	49	44	40	37
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9837	9837	9837
5°	9857	9222	9597
10°	9774	10202	10933
15°	9635	10843	11597
20°	9454	11019	11225
25°	9222	10644	10359
30°	8909	9922	9087
35°	8528	8777	7439
40°	8072	7566	5785
45°	7517	6418	4641
50°	6833	5329	3746
55°	6004	4386	3066
60°	5055	3593	2418
65°	4065	2914	1874
70°	3128	2329	1429
75°	2330	1839	1034
80°	1633	1416	733
85°	976	1068	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	2.8
10°-20°	651.1	9.8
20°-30°	1071.9	16.2
30°-40°	1204.2	18.1
40°-50°	1071.6	16.1
50°-60°	828.8	12.5
60°-70°	562.8	8.5
70°-80°	335.9	5.1
80°-90°	180.2	2.7
90°-100°	118.5	1.8
100°-110°	100.5	1.5
110°-120°	93.0	1.4
120°-130°	86.7	1.3
130°-140°	73.5	1.1
140°-150°	50.2	0.8
150°-160°	19.4	0.3
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1910.1	28.8
0°-40°	3114.3	46.9
0°-60°	5014.7	75.6
0°-90°	6093.5	91.8
90°-120°	312.1	4.7
90°-150°	522.5	7.9
90°-180°	542.0	8.2
0°-180°	6636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1830	1805	1834	1932	1958	174
15°	1746	1961	2390	2688	2732	492
25°	1579	2028	2504	2700	2694	727
35°	1331	1827	2132	2112	2057	832
45°	1024	1412	1561	1427	1321	787
55°	673	962	1035	939	871	601
65°	344	598	646	583	515	347
75°	127	360	369	318	266	139
85°	22	227	186	145	116	28
90°	2	193	135	99	76	2
95°	1	186	118	83	64	1
105°	1	169	109	71	55	1
115°	1	156	122	77	60	1
125°	1	128	142	94	74	1
135°	1	49	152	121	95	1
145°	1	4	117	137	118	1
155°	1	3	26	90	100	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232509

CATALOG NUMBER: 8SKB1-LD5-6-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1836.6	1829.5	1816.9	1816.0	1808.0	1804.4	1805.3	1802.6	1799.9	1795.4	1788.2
5°	1830.4	1816.9	1796.3	1796.3	1800.8	1805.3	1816.0	1825.9	1828.6	1834.9	1834.0
7.5°	1818.7	1798.1	1778.4	1794.5	1810.7	1816.9	1829.5	1847.4	1875.2	1926.3	1976.5
10°	1799.9	1772.1	1765.8	1791.8	1813.3	1832.2	1860.9	1944.2	2021.3	2097.5	2146.8
12.5°	1778.4	1744.3	1753.3	1786.5	1836.6	1872.5	1946.0	2056.3	2117.2	2206.0	2278.6
15°	1746.1	1713.8	1730.0	1779.3	1884.2	1961.2	2002.5	2136.9	2234.6	2308.1	2389.7
17.5°	1711.2	1682.5	1704.9	1791.8	1934.4	2008.8	2075.1	2188.9	2283.0	2391.5	2468.6
20°	1672.6	1647.5	1676.2	1808.0	1958.6	2034.7	2108.2	2216.7	2341.3	2453.3	2519.7
22.5°	1627.8	1605.4	1649.3	1815.1	1967.5	2043.7	2115.4	2241.8	2370.9	2463.2	2519.7
25°	1579.4	1557.0	1617.0	1800.8	1958.6	2028.5	2105.6	2255.3	2361.0	2433.6	2503.5
27.5°	1527.4	1502.3	1592.8	1771.2	1922.7	2001.6	2088.5	2229.3	2312.6	2393.3	2464.1
30°	1463.8	1441.4	1550.7	1728.2	1872.5	1965.7	2040.1	2166.5	2246.3	2326.1	2380.7
32.5°	1400.1	1378.6	1499.6	1667.2	1815.1	1903.0	1974.7	2073.3	2163.8	2225.7	2259.7
35°	1331.1	1306.9	1440.5	1592.8	1750.6	1826.8	1886.8	1976.5	2052.7	2098.4	2131.6
37.5°	1262.1	1236.1	1365.2	1514.9	1665.4	1735.4	1785.6	1876.1	1934.4	1972.0	1999.8
40°	1184.1	1157.2	1287.2	1427.0	1576.7	1626.0	1678.0	1758.7	1801.7	1832.2	1845.6
42.5°	1105.2	1078.3	1202.9	1334.7	1468.2	1516.6	1570.4	1634.1	1676.2	1694.1	1694.1
45°	1023.6	997.7	1116.0	1243.3	1356.2	1411.8	1459.3	1510.4	1545.3	1559.7	1560.6
47.5°	938.5	917.0	1029.9	1145.6	1251.3	1299.7	1336.5	1385.8	1416.3	1419.8	1418.9
50°	851.5	832.7	934.0	1047.8	1142.0	1185.0	1217.3	1263.0	1287.2	1286.3	1281.8
52.5°	760.1	748.5	842.6	946.6	1031.7	1070.3	1098.9	1139.3	1159.0	1159.0	1155.4
55°	673.2	666.0	747.6	848.0	927.7	961.8	988.7	1024.5	1040.7	1040.7	1035.3
57.5°	585.3	584.4	660.6	750.3	826.4	856.9	885.6	917.0	931.3	931.3	922.4
60°	499.3	503.8	579.1	661.5	731.4	761.0	786.1	816.6	825.6	827.3	825.6
62.5°	419.5	431.2	502.9	578.2	648.1	673.2	695.6	725.2	732.3	735.0	730.5
65°	344.2	362.1	434.7	506.4	571.9	597.9	617.6	638.2	644.5	647.2	646.3
67.5°	282.4	301.2	373.8	444.6	504.7	525.3	545.0	562.9	563.8	568.3	564.7
70°	218.7	247.4	320.0	387.2	443.7	462.5	478.7	491.2	493.9	494.8	493.9
72.5°	168.5	202.6	271.6	337.9	389.0	406.9	419.5	429.4	429.4	430.3	427.6
75°	127.3	168.5	235.7	296.7	342.4	360.3	370.2	376.5	372.9	372.0	369.3
77.5°	92.3	139.8	203.5	260.8	303.9	317.3	326.3	327.2	321.8	320.9	315.5
80°	63.6	113.8	175.7	229.5	268.9	282.4	286.8	283.3	278.8	273.4	266.2
82.5°	42.1	92.3	152.4	203.5	240.2	251.0	254.6	249.2	242.9	234.0	222.3
85°	22.4	74.4	132.7	182.0	216.9	226.8	228.6	218.7	208.9	197.2	185.5
87.5°	9.9	61.0	118.3	167.6	198.1	205.3	206.2	195.4	182.9	169.4	155.1
90°	1.8	52.0	109.4	156.9	186.4	192.7	192.7	178.4	165.8	151.5	135.4
92.5°	0.9	49.3	106.7	153.3	182.9	189.1	188.2	173.0	157.8	141.6	125.5
95°	0.9	43.0	100.4	149.7	180.2	186.4	185.5	169.4	153.3	136.2	118.3
97.5°	0.9	35.9	94.1	143.4	175.7	182.0	182.0	166.7	150.6	132.7	113.8
100°	0.0	27.8	86.9	137.1	169.4	177.5	178.4	164.0	147.0	129.1	111.1
102.5°	0.0	18.8	80.7	131.8	164.9	173.0	174.8	163.1	145.2	127.3	109.4
105°	0.9	11.7	72.6	125.5	160.4	169.4	172.1	162.2	144.3	127.3	109.4
107.5°	0.9	8.1	64.5	119.2	156.9	166.7	170.3	162.2	145.2	128.2	111.1
110°	0.9	7.2	54.7	112.9	152.4	163.1	168.5	163.1	147.0	130.9	113.8



TEST NUMBER: P232509

CATALOG NUMBER: 8SKB1-LD5-6-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	5.4	41.2	104.9	147.0	159.6	166.7	164.0	149.7	133.6	117.4
115°	0.9	4.5	27.8	96.8	141.6	156.0	164.9	164.9	152.4	137.1	121.9
117.5°	0.9	4.5	18.8	86.1	135.4	151.5	161.3	165.8	156.0	140.7	127.3
120°	0.9	3.6	9.0	73.5	127.3	145.2	157.8	165.8	158.7	145.2	131.8
122.5°	0.9	3.6	7.2	56.5	118.3	138.0	152.4	164.9	161.3	148.8	137.1
125°	0.9	2.7	6.3	37.6	106.7	128.2	145.2	162.2	162.2	152.4	141.6
127.5°	0.9	2.7	5.4	26.9	91.4	117.4	135.4	157.8	162.2	155.1	146.1
130°	0.9	2.7	4.5	8.1	69.9	102.2	123.7	150.6	160.4	156.9	148.8
132.5°	0.9	1.8	4.5	6.3	44.8	79.8	107.6	138.9	155.1	156.9	151.5
135°	0.9	1.8	3.6	5.4	32.3	49.3	86.1	124.6	145.2	151.5	151.5
137.5°	0.9	1.8	3.6	4.5	14.3	36.8	53.8	107.6	132.7	144.3	147.0
140°	0.9	1.8	2.7	3.6	5.4	19.7	38.5	85.2	117.4	133.6	140.7
142.5°	0.9	1.8	2.7	3.6	4.5	4.5	23.3	49.3	98.6	119.2	130.9
145°	0.9	1.8	1.8	2.7	3.6	4.5	4.5	37.6	70.8	102.2	117.4
147.5°	0.9	0.9	1.8	2.7	3.6	3.6	3.6	17.0	42.1	78.0	100.4
150°	0.9	0.9	1.8	1.8	2.7	2.7	3.6	3.6	27.8	43.9	74.4
152.5°	0.9	0.9	1.8	1.8	2.7	2.7	2.7	3.6	3.6	29.6	41.2
155°	0.9	0.9	1.8	1.8	1.8	2.7	2.7	2.7	2.7	3.6	26.0
157.5°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	3.6
160°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232509

CATALOG NUMBER: 8SKB1-LD5-6-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1797.2	1810.7	1810.7	1822.3	1828.6	1826.8	1828.6	1832.2	1821.4	1817.8
5°	1853.7	1880.6	1894.0	1924.5	1931.7	1945.1	1949.6	1964.8	1968.4	1957.7
7.5°	2031.2	2086.7	2122.6	2159.3	2175.5	2183.5	2197.9	2207.7	2223.0	2211.3
10°	2197.9	2265.1	2316.2	2356.5	2366.4	2374.5	2391.5	2415.7	2413.9	2412.1
12.5°	2342.2	2401.4	2464.1	2522.4	2551.9	2558.2	2583.3	2612.9	2618.3	2594.1
15°	2461.4	2543.9	2614.7	2676.5	2688.2	2704.3	2723.2	2733.0	2728.5	2732.1
17.5°	2560.9	2630.8	2681.0	2714.2	2721.4	2733.9	2750.9	2763.5	2765.3	2766.2
20°	2600.4	2647.0	2695.4	2741.1	2755.4	2768.0	2788.6	2799.3	2797.6	2792.2
22.5°	2593.2	2661.3	2706.1	2743.8	2758.1	2769.8	2787.7	2794.9	2792.2	2786.8
25°	2582.4	2640.7	2680.1	2699.8	2699.8	2708.8	2704.3	2699.0	2692.7	2693.6
27.5°	2531.3	2565.4	2592.3	2614.7	2617.4	2618.3	2615.6	2610.2	2606.6	2598.6
30°	2427.4	2468.6	2481.1	2479.3	2475.8	2474.9	2464.1	2456.0	2446.2	2447.1
32.5°	2305.4	2314.4	2319.8	2304.6	2295.6	2293.8	2283.9	2270.5	2257.0	2242.7
35°	2148.6	2142.3	2129.8	2119.0	2111.8	2101.1	2086.7	2073.3	2056.3	2057.2
37.5°	1997.1	1977.4	1959.5	1929.9	1924.5	1899.4	1871.6	1850.1	1822.3	1807.1
40°	1839.3	1819.6	1797.2	1764.9	1750.6	1727.3	1696.8	1661.0	1638.6	1629.6
42.5°	1688.7	1664.5	1638.6	1600.0	1582.1	1563.3	1531.0	1496.0	1479.9	1477.2
45°	1541.7	1514.0	1488.9	1445.8	1427.0	1404.6	1371.4	1349.9	1326.6	1321.2
47.5°	1400.1	1375.9	1337.4	1304.2	1286.3	1267.5	1233.4	1213.7	1196.6	1190.4
50°	1263.0	1239.7	1210.1	1173.3	1156.3	1138.4	1114.2	1095.4	1075.6	1069.4
52.5°	1140.2	1116.9	1086.4	1057.7	1040.7	1029.9	1007.5	986.0	970.8	960.9
55°	1021.9	1000.3	972.6	945.7	939.4	925.0	899.1	880.2	870.4	871.3
57.5°	913.4	894.6	873.1	847.1	837.2	823.8	806.7	784.3	772.7	769.1
60°	814.8	796.9	778.9	759.2	746.7	736.8	713.5	695.6	680.3	678.5
62.5°	720.7	707.2	692.0	672.3	661.5	650.8	630.1	613.1	601.5	597.9
65°	639.1	627.5	609.5	593.4	582.6	571.9	552.2	535.1	525.3	515.4
67.5°	558.4	548.6	535.1	518.1	508.2	497.5	480.5	461.6	450.0	447.3
70°	486.7	476.0	465.2	447.3	438.3	432.0	413.2	394.4	385.4	381.9
72.5°	424.9	413.2	398.0	385.4	380.1	368.4	350.5	337.9	326.3	319.1
75°	360.3	353.2	342.4	328.1	318.2	310.1	295.8	283.3	273.4	266.2
77.5°	307.5	298.5	289.5	275.2	268.0	260.8	245.6	234.8	225.0	221.4
80°	258.2	250.1	237.5	226.8	220.5	214.2	202.6	190.9	183.8	180.2
82.5°	213.3	206.2	196.3	187.3	180.2	175.7	164.9	155.1	148.8	143.4
85°	176.6	167.6	158.7	150.6	145.2	141.6	133.6	126.4	118.3	116.5
87.5°	145.2	138.0	130.0	121.9	118.3	113.8	106.7	101.3	95.0	92.3
90°	124.6	115.6	108.5	102.2	98.6	95.9	90.5	83.4	78.9	76.2
92.5°	112.9	104.9	98.6	92.3	89.6	86.9	80.7	75.3	70.8	67.2
95°	105.8	97.7	91.4	86.1	83.4	81.6	76.2	70.8	66.3	63.6
97.5°	100.4	91.4	85.2	80.7	78.0	76.2	71.7	67.2	62.7	60.1
100°	95.9	86.9	80.7	76.2	74.4	72.6	68.1	63.6	60.1	57.4
102.5°	94.1	84.3	78.0	74.4	72.6	70.8	66.3	62.7	58.3	55.6
105°	94.1	83.4	77.1	72.6	70.8	69.0	65.4	61.8	57.4	54.7
107.5°	95.9	84.3	77.1	73.5	71.7	69.9	65.4	61.8	57.4	54.7
110°	98.6	86.9	78.9	74.4	72.6	70.8	66.3	62.7	58.3	55.6



TEST NUMBER: P232509

CATALOG NUMBER: 8SKB1-LD5-6-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	102.2	89.6	81.6	76.2	74.4	72.6	68.1	64.5	60.1	57.4
115°	106.7	93.2	85.2	78.9	77.1	75.3	70.8	66.3	62.7	60.1
117.5°	112.0	98.6	88.7	82.5	80.7	78.0	73.5	69.0	65.4	62.7
120°	117.4	104.9	94.1	86.9	84.3	81.6	77.1	72.6	68.1	65.4
122.5°	123.7	110.3	99.5	92.3	89.6	86.9	81.6	77.1	72.6	69.0
125°	130.0	117.4	105.8	97.7	94.1	91.4	86.1	80.7	77.1	73.5
127.5°	135.4	123.7	112.0	104.0	100.4	96.8	91.4	86.1	81.6	78.9
130°	139.8	130.0	119.2	110.3	106.7	104.0	96.8	91.4	86.9	84.3
132.5°	144.3	135.4	126.4	117.4	113.8	110.3	104.0	97.7	93.2	89.6
135°	147.0	139.8	132.7	124.6	121.0	116.5	110.3	104.0	98.6	95.0
137.5°	147.0	143.4	137.1	130.9	127.3	123.7	116.5	110.3	104.9	102.2
140°	142.5	143.4	140.7	136.2	132.7	130.0	123.7	116.5	111.1	108.5
142.5°	136.2	138.9	140.7	138.0	136.2	134.5	129.1	122.8	117.4	113.8
145°	126.4	131.8	135.4	138.0	137.1	136.2	131.8	127.3	121.9	118.3
147.5°	113.8	121.9	126.4	132.7	134.5	134.5	132.7	129.1	124.6	121.9
150°	95.9	107.6	115.6	121.9	124.6	128.2	128.2	125.5	122.8	120.1
152.5°	68.1	86.9	98.6	107.6	111.1	114.7	119.2	117.4	113.8	112.0
155°	38.5	47.5	71.7	86.1	90.5	95.0	102.2	104.0	103.1	100.4
157.5°	19.7	32.3	40.3	46.6	49.3	56.5	70.8	80.7	79.8	81.6
160°	4.5	5.4	15.2	28.7	32.3	34.1	37.6	40.3	40.3	38.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)