

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: P#

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-W-RS-UNV-L850-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

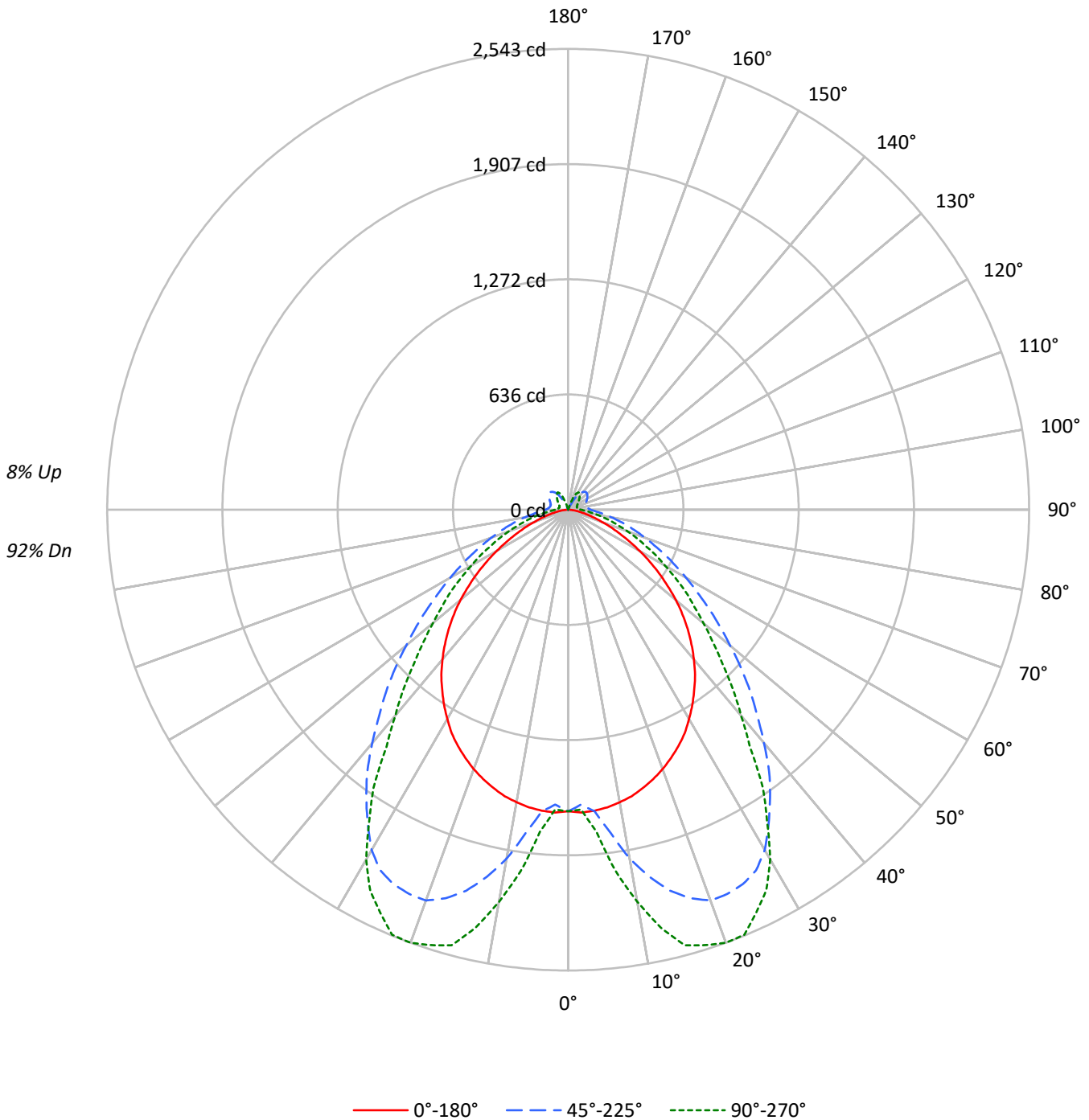
Lumens per Lamp: N/A
Luminaire Lumens: 6044.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SKB1-LD5-6-W-RS-UNV-L850-CD1-RS-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

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°	8959	8959	8959
5°	8978	8399	8741
10°	8902	9292	9958
15°	8775	9876	10563
20°	8611	10036	10224
25°	8399	9695	9435
30°	8114	9037	8276
35°	7767	7993	6775
40°	7352	6891	5269
45°	6846	5845	4227
50°	6224	4854	3412
55°	5468	3994	2793
60°	4604	3272	2202
65°	3703	2654	1707
70°	2849	2121	1301
75°	2121	1675	942
80°	1490	1290	668
85°	889	973	457



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	2.8
10°-20°	593.0	9.8
20°-30°	976.3	16.2
30°-40°	1096.8	18.1
40°-50°	976.0	16.1
50°-60°	754.8	12.5
60°-70°	512.6	8.5
70°-80°	305.9	5.1
80°-90°	164.1	2.7
90°-100°	108.0	1.8
100°-110°	91.6	1.5
110°-120°	84.7	1.4
120°-130°	78.9	1.3
130°-140°	66.9	1.1
140°-150°	45.7	0.8
150°-160°	17.7	0.3
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1739.7	28.8
0°-40°	2836.5	46.9
0°-60°	4567.4	75.6
0°-90°	5549.9	91.8
90°-120°	284.3	4.7
90°-150°	475.9	7.9
90°-180°	494.0	8.2
0°-180°	6044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1667	1644	1670	1759	1783	158
15°	1590	1786	2176	2448	2488	448
25°	1438	1848	2280	2459	2453	662
35°	1212	1664	1941	1923	1874	757
45°	932	1286	1421	1300	1203	717
55°	613	876	943	856	794	548
65°	314	544	589	531	469	316
75°	116	328	336	290	242	127
85°	20	206	169	132	106	25
90°	2	176	123	90	69	2
95°	1	170	108	76	58	1
105°	1	154	100	64	50	1
115°	1	142	111	70	55	1
125°	1	117	129	86	67	1
135°	1	45	138	110	86	1
145°	1	4	107	125	108	1
155°	1	2	24	82	91	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6
2.5°	1672.8	1666.3	1654.8	1654.0	1646.7	1643.4	1644.2	1641.8	1639.3	1635.2	1628.7
5°	1667.1	1654.8	1636.1	1636.1	1640.1	1644.2	1654.0	1663.0	1665.5	1671.2	1670.4
7.5°	1656.5	1637.7	1619.7	1634.4	1649.1	1654.8	1666.3	1682.6	1707.9	1754.4	1800.2
10°	1639.3	1614.0	1608.3	1632.0	1651.6	1668.7	1694.8	1770.8	1841.0	1910.4	1955.3
12.5°	1619.7	1588.7	1596.9	1627.1	1672.8	1705.5	1772.4	1872.8	1928.3	2009.2	2075.3
15°	1590.3	1561.0	1575.6	1620.6	1716.1	1786.3	1823.8	1946.3	2035.3	2102.2	2176.5
17.5°	1558.5	1532.4	1552.8	1632.0	1761.8	1829.5	1890.0	1993.6	2079.4	2178.2	2248.4
20°	1523.4	1500.5	1526.7	1646.7	1783.8	1853.2	1920.2	2019.0	2132.4	2234.5	2294.9
22.5°	1482.6	1462.2	1502.2	1653.2	1792.0	1861.4	1926.7	2041.8	2159.4	2243.5	2294.9
25°	1438.5	1418.1	1472.8	1640.1	1783.8	1847.5	1917.7	2054.1	2150.4	2216.5	2280.2
27.5°	1391.1	1368.3	1450.7	1613.2	1751.2	1823.0	1902.2	2030.4	2106.3	2179.8	2244.3
30°	1333.2	1312.8	1412.4	1574.0	1705.5	1790.4	1858.1	1973.2	2045.9	2118.6	2168.4
32.5°	1275.2	1255.6	1365.8	1518.5	1653.2	1733.2	1798.5	1888.3	1970.8	2027.1	2058.1
35°	1212.4	1190.3	1312.0	1450.7	1594.4	1663.8	1718.5	1800.2	1869.6	1911.2	1941.4
37.5°	1149.5	1125.8	1243.4	1379.7	1516.9	1580.5	1626.3	1708.7	1761.8	1796.1	1821.4
40°	1078.5	1054.0	1172.3	1299.7	1436.0	1480.9	1528.3	1601.8	1641.0	1668.7	1681.0
42.5°	1006.6	982.1	1095.6	1215.6	1337.3	1381.3	1430.3	1488.3	1526.7	1543.0	1543.0
45°	932.3	908.7	1016.4	1132.3	1235.2	1285.8	1329.1	1375.6	1407.5	1420.5	1421.4
47.5°	854.8	835.2	938.0	1043.4	1139.7	1183.8	1217.3	1262.2	1289.9	1293.2	1292.4
50°	775.6	758.4	850.7	954.4	1040.1	1079.3	1108.7	1150.3	1172.3	1171.5	1167.5
52.5°	692.3	681.7	767.4	862.1	939.7	974.8	1000.9	1037.6	1055.6	1055.6	1052.3
55°	613.1	606.6	680.9	772.3	845.0	876.0	900.5	933.1	947.8	947.8	942.9
57.5°	533.1	532.3	601.7	683.3	752.7	780.5	806.6	835.2	848.2	848.2	840.1
60°	454.7	458.8	527.4	602.5	666.2	693.1	716.0	743.7	751.9	753.5	751.9
62.5°	382.1	392.7	458.0	526.6	590.3	613.1	633.5	660.5	667.0	669.4	665.4
65°	313.5	329.8	396.0	461.3	520.9	544.5	562.5	581.3	587.0	589.4	588.6
67.5°	257.2	274.3	340.4	404.9	459.6	478.4	496.4	512.7	513.5	517.6	514.3
70°	199.2	225.3	291.5	352.7	404.1	421.3	436.0	447.4	449.8	450.7	449.8
72.5°	153.5	184.5	247.4	307.8	354.3	370.6	382.1	391.1	391.1	391.9	389.4
75°	115.9	153.5	214.7	270.2	311.9	328.2	337.2	342.9	339.6	338.8	336.4
77.5°	84.1	127.4	185.3	237.6	276.8	289.0	297.2	298.0	293.1	292.3	287.4
80°	58.0	103.7	160.0	209.0	244.9	257.2	261.2	258.0	253.9	249.0	242.5
82.5°	38.4	84.1	138.8	185.3	218.8	228.6	231.9	227.0	221.2	213.1	202.5
85°	20.4	67.8	120.8	165.7	197.6	206.5	208.2	199.2	190.2	179.6	169.0
87.5°	9.0	55.5	107.8	152.7	180.4	187.0	187.8	178.0	166.5	154.3	141.2
90°	1.6	47.4	99.6	142.9	169.8	175.5	175.5	162.5	151.0	138.0	123.3
92.5°	0.8	44.9	97.2	139.6	166.5	172.3	171.4	157.6	143.7	129.0	114.3
95°	0.8	39.2	91.4	136.3	164.1	169.8	169.0	154.3	139.6	124.1	107.8
97.5°	0.8	32.7	85.7	130.6	160.0	165.7	165.7	151.9	137.2	120.8	103.7
100°	0.0	25.3	79.2	124.9	154.3	161.6	162.5	149.4	133.9	117.6	101.2
102.5°	0.0	17.1	73.5	120.0	150.2	157.6	159.2	148.6	132.3	115.9	99.6
105°	0.8	10.6	66.1	114.3	146.1	154.3	156.7	147.8	131.4	115.9	99.6
107.5°	0.8	7.3	58.8	108.6	142.9	151.9	155.1	147.8	132.3	116.7	101.2
110°	0.8	6.5	49.8	102.9	138.8	148.6	153.5	148.6	133.9	119.2	103.7



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	4.9	37.6	95.5	133.9	145.3	151.9	149.4	136.3	121.6	106.9
115°	0.8	4.1	25.3	88.2	129.0	142.1	150.2	150.2	138.8	124.9	111.0
117.5°	0.8	4.1	17.1	78.4	123.3	138.0	147.0	151.0	142.1	128.2	115.9
120°	0.8	3.3	8.2	66.9	115.9	132.3	143.7	151.0	144.5	132.3	120.0
122.5°	0.8	3.3	6.5	51.4	107.8	125.7	138.8	150.2	147.0	135.5	124.9
125°	0.8	2.4	5.7	34.3	97.2	116.7	132.3	147.8	147.8	138.8	129.0
127.5°	0.8	2.4	4.9	24.5	83.3	106.9	123.3	143.7	147.8	141.2	133.1
130°	0.8	2.4	4.1	7.3	63.7	93.1	112.7	137.2	146.1	142.9	135.5
132.5°	0.8	1.6	4.1	5.7	40.8	72.7	98.0	126.5	141.2	142.9	138.0
135°	0.8	1.6	3.3	4.9	29.4	44.9	78.4	113.5	132.3	138.0	138.0
137.5°	0.8	1.6	3.3	4.1	13.1	33.5	49.0	98.0	120.8	131.4	133.9
140°	0.8	1.6	2.4	3.3	4.9	18.0	35.1	77.6	106.9	121.6	128.2
142.5°	0.8	1.6	2.4	3.3	4.1	4.1	21.2	44.9	89.8	108.6	119.2
145°	0.8	1.6	1.6	2.4	3.3	4.1	4.1	34.3	64.5	93.1	106.9
147.5°	0.8	0.8	1.6	2.4	3.3	3.3	3.3	15.5	38.4	71.0	91.4
150°	0.8	0.8	1.6	1.6	2.4	2.4	3.3	3.3	25.3	40.0	67.8
152.5°	0.8	0.8	1.6	1.6	2.4	2.4	2.4	3.3	3.3	26.9	37.6
155°	0.8	0.8	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.3	23.7
157.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.3	3.3
160°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.3
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: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6	1664.6
2.5°	1636.9	1649.1	1649.1	1659.7	1665.5	1663.8	1665.5	1668.7	1658.9	1655.7
5°	1688.3	1712.8	1725.1	1752.8	1759.3	1771.6	1775.7	1789.5	1792.8	1783.0
7.5°	1850.0	1900.6	1933.2	1966.7	1981.4	1988.7	2001.8	2010.8	2024.7	2014.1
10°	2001.8	2063.0	2109.6	2146.3	2155.3	2162.6	2178.2	2200.2	2198.6	2196.9
12.5°	2133.2	2187.1	2244.3	2297.3	2324.3	2330.0	2352.9	2379.8	2384.7	2362.7
15°	2241.8	2316.9	2381.4	2437.8	2448.4	2463.1	2480.2	2489.2	2485.1	2488.4
17.5°	2332.5	2396.1	2441.8	2472.1	2478.6	2490.0	2505.5	2517.0	2518.6	2519.4
20°	2368.4	2410.8	2454.9	2496.5	2509.6	2521.0	2539.8	2549.6	2548.0	2543.1
22.5°	2361.8	2423.9	2464.7	2499.0	2512.1	2522.7	2539.0	2545.5	2543.1	2538.2
25°	2352.0	2405.1	2441.0	2459.0	2459.0	2467.2	2463.1	2458.2	2452.5	2453.3
27.5°	2305.5	2336.5	2361.0	2381.4	2383.9	2384.7	2382.3	2377.4	2374.1	2366.7
30°	2210.8	2248.4	2259.8	2258.2	2254.9	2254.1	2244.3	2236.9	2228.0	2228.8
32.5°	2099.8	2107.9	2112.8	2099.0	2090.8	2089.2	2080.2	2067.9	2055.7	2042.6
35°	1956.9	1951.2	1939.8	1930.0	1923.4	1913.6	1900.6	1888.3	1872.8	1873.6
37.5°	1818.9	1801.0	1784.6	1757.7	1752.8	1729.9	1704.6	1685.0	1659.7	1645.9
40°	1675.3	1657.3	1636.9	1607.5	1594.4	1573.2	1545.4	1512.8	1492.4	1484.2
42.5°	1538.1	1516.1	1492.4	1457.3	1440.9	1423.8	1394.4	1362.6	1347.9	1345.4
45°	1404.2	1378.9	1356.0	1316.9	1299.7	1279.3	1249.1	1229.5	1208.3	1203.4
47.5°	1275.2	1253.2	1218.1	1187.9	1171.5	1154.4	1123.4	1105.4	1089.9	1084.2
50°	1150.3	1129.1	1102.1	1068.7	1053.2	1036.8	1014.8	997.6	979.7	974.0
52.5°	1038.5	1017.2	989.5	963.4	947.8	938.0	917.6	898.0	884.2	875.2
55°	930.7	911.1	885.8	861.3	855.6	842.5	818.8	801.7	792.7	793.5
57.5°	831.9	814.8	795.2	771.5	762.5	750.3	734.8	714.3	703.7	700.5
60°	742.1	725.8	709.5	691.5	680.1	671.1	649.9	633.5	619.6	618.0
62.5°	656.4	644.1	630.3	612.3	602.5	592.7	573.9	558.4	547.8	544.5
65°	582.1	571.5	555.2	540.5	530.7	520.9	502.9	487.4	478.4	469.4
67.5°	508.6	499.6	487.4	471.9	462.9	453.1	437.6	420.4	409.8	407.4
70°	443.3	433.5	423.7	407.4	399.2	393.5	376.4	359.2	351.1	347.8
72.5°	387.0	376.4	362.5	351.1	346.2	335.5	319.2	307.8	297.2	290.6
75°	328.2	321.7	311.9	298.8	289.8	282.5	269.4	258.0	249.0	242.5
77.5°	280.0	271.9	263.7	250.6	244.1	237.6	223.7	213.9	204.9	201.7
80°	235.1	227.8	216.3	206.5	200.8	195.1	184.5	173.9	167.4	164.1
82.5°	194.3	187.8	178.8	170.6	164.1	160.0	150.2	141.2	135.5	130.6
85°	160.8	152.7	144.5	137.2	132.3	129.0	121.6	115.1	107.8	106.1
87.5°	132.3	125.7	118.4	111.0	107.8	103.7	97.2	92.3	86.5	84.1
90°	113.5	105.3	98.8	93.1	89.8	87.4	82.5	75.9	71.8	69.4
92.5°	102.9	95.5	89.8	84.1	81.6	79.2	73.5	68.6	64.5	61.2
95°	96.3	89.0	83.3	78.4	75.9	74.3	69.4	64.5	60.4	58.0
97.5°	91.4	83.3	77.6	73.5	71.0	69.4	65.3	61.2	57.1	54.7
100°	87.4	79.2	73.5	69.4	67.8	66.1	62.0	58.0	54.7	52.2
102.5°	85.7	76.7	71.0	67.8	66.1	64.5	60.4	57.1	53.1	50.6
105°	85.7	75.9	70.2	66.1	64.5	62.9	59.6	56.3	52.2	49.8
107.5°	87.4	76.7	70.2	66.9	65.3	63.7	59.6	56.3	52.2	49.8
110°	89.8	79.2	71.8	67.8	66.1	64.5	60.4	57.1	53.1	50.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	93.1	81.6	74.3	69.4	67.8	66.1	62.0	58.8	54.7	52.2
115°	97.2	84.9	77.6	71.8	70.2	68.6	64.5	60.4	57.1	54.7
117.5°	102.0	89.8	80.8	75.1	73.5	71.0	66.9	62.9	59.6	57.1
120°	106.9	95.5	85.7	79.2	76.7	74.3	70.2	66.1	62.0	59.6
122.5°	112.7	100.4	90.6	84.1	81.6	79.2	74.3	70.2	66.1	62.9
125°	118.4	106.9	96.3	89.0	85.7	83.3	78.4	73.5	70.2	66.9
127.5°	123.3	112.7	102.0	94.7	91.4	88.2	83.3	78.4	74.3	71.8
130°	127.4	118.4	108.6	100.4	97.2	94.7	88.2	83.3	79.2	76.7
132.5°	131.4	123.3	115.1	106.9	103.7	100.4	94.7	89.0	84.9	81.6
135°	133.9	127.4	120.8	113.5	110.2	106.1	100.4	94.7	89.8	86.5
137.5°	133.9	130.6	124.9	119.2	115.9	112.7	106.1	100.4	95.5	93.1
140°	129.8	130.6	128.2	124.1	120.8	118.4	112.7	106.1	101.2	98.8
142.5°	124.1	126.5	128.2	125.7	124.1	122.5	117.6	111.8	106.9	103.7
145°	115.1	120.0	123.3	125.7	124.9	124.1	120.0	115.9	111.0	107.8
147.5°	103.7	111.0	115.1	120.8	122.5	122.5	120.8	117.6	113.5	111.0
150°	87.4	98.0	105.3	111.0	113.5	116.7	116.7	114.3	111.8	109.4
152.5°	62.0	79.2	89.8	98.0	101.2	104.5	108.6	106.9	103.7	102.0
155°	35.1	43.3	65.3	78.4	82.5	86.5	93.1	94.7	93.9	91.4
157.5°	18.0	29.4	36.7	42.5	44.9	51.4	64.5	73.5	72.7	74.3
160°	4.1	4.9	13.9	26.1	29.4	31.0	34.3	36.7	36.7	35.1
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)