

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: P232507

Luminaire Tested: **8SKB1-LD5-6-N-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232507
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-L835-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6015.0 lumens
Efficiency: N/A
Efficacy: 143.2 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

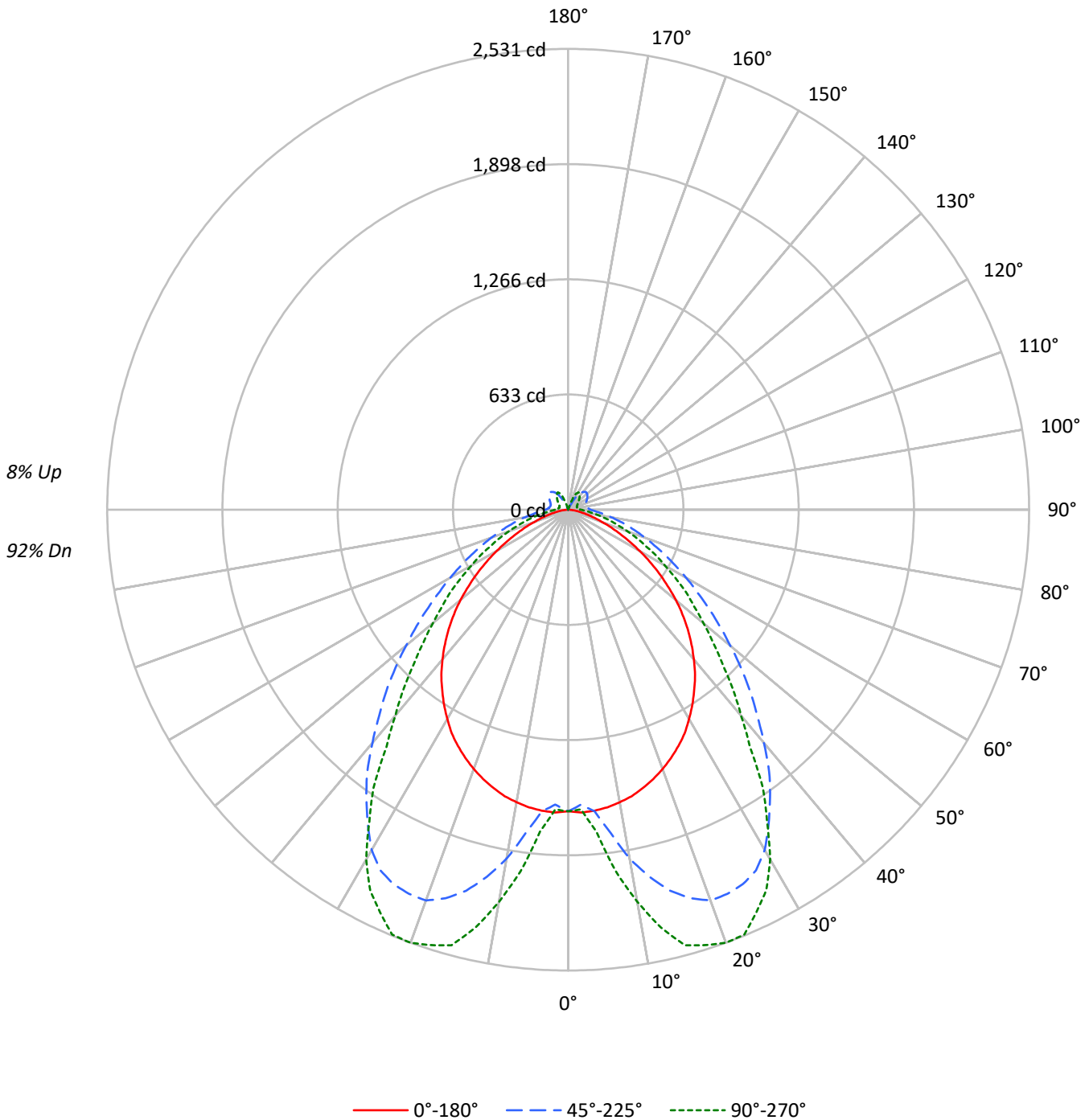
Input Watts (W): 42
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8916	8916	8916
5°	8935	8358	8699
10°	8859	9247	9910
15°	8733	9829	10512
20°	8570	9988	10175
25°	8359	9648	9390
30°	8075	8993	8236
35°	7730	7955	6743
40°	7317	6858	5244
45°	6814	5817	4207
50°	6194	4830	3395
55°	5442	3975	2779
60°	4582	3256	2191
65°	3685	2641	1699
70°	2835	2111	1295
75°	2112	1667	937
80°	1482	1284	664
85°	885	969	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	2.8
10°-20°	590.1	9.8
20°-30°	971.6	16.2
30°-40°	1091.5	18.1
40°-50°	971.4	16.1
50°-60°	751.2	12.5
60°-70°	510.1	8.5
70°-80°	304.4	5.1
80°-90°	163.3	2.7
90°-100°	107.5	1.8
100°-110°	91.1	1.5
110°-120°	84.3	1.4
120°-130°	78.6	1.3
130°-140°	66.6	1.1
140°-150°	45.5	0.8
150°-160°	17.6	0.3
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1731.4	28.8
0°-40°	2822.9	46.9
0°-60°	4545.5	75.6
0°-90°	5523.3	91.8
90°-120°	282.9	4.7
90°-150°	473.6	7.9
90°-180°	492.0	8.2
0°-180°	6015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1659	1636	1662	1751	1774	157
15°	1583	1778	2166	2437	2476	446
25°	1432	1839	2269	2447	2442	659
35°	1206	1656	1932	1914	1865	754
45°	928	1280	1414	1294	1198	714
55°	610	872	938	852	790	545
65°	312	542	586	528	467	314
75°	115	327	335	288	241	126
85°	20	206	168	132	106	25
90°	2	175	123	89	69	2
95°	1	169	107	76	58	1
105°	1	154	99	64	50	1
115°	1	141	110	70	54	1
125°	1	116	128	85	67	1
135°	1	45	137	110	86	1
145°	1	4	106	124	107	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6
2.5°	1664.8	1658.3	1646.9	1646.1	1638.8	1635.5	1636.3	1633.9	1631.5	1627.4	1620.9
5°	1659.1	1646.9	1628.2	1628.2	1632.3	1636.3	1646.1	1655.0	1657.5	1663.1	1662.3
7.5°	1648.5	1629.8	1612.0	1626.6	1641.2	1646.9	1658.3	1674.5	1699.7	1746.0	1791.5
10°	1631.5	1606.3	1600.6	1624.2	1643.7	1660.7	1686.7	1762.3	1832.1	1901.2	1945.9
12.5°	1612.0	1581.1	1589.2	1619.3	1664.8	1697.3	1763.9	1863.8	1919.1	1999.5	2065.3
15°	1582.7	1553.5	1568.1	1612.8	1707.8	1777.7	1815.1	1937.0	2025.5	2092.1	2166.1
17.5°	1551.0	1525.0	1545.3	1624.2	1753.3	1820.8	1880.9	1984.1	2069.4	2167.7	2237.6
20°	1516.1	1493.3	1519.3	1638.8	1775.3	1844.3	1911.0	2009.3	2122.2	2223.8	2283.9
22.5°	1475.5	1455.2	1495.0	1645.3	1783.4	1852.5	1917.5	2032.0	2149.0	2232.7	2283.9
25°	1431.6	1411.3	1465.7	1632.3	1775.3	1838.6	1908.5	2044.2	2140.1	2205.9	2269.3
27.5°	1384.5	1361.7	1443.8	1605.5	1742.8	1814.3	1893.1	2020.6	2096.2	2169.3	2233.5
30°	1326.8	1306.5	1405.6	1566.5	1697.3	1781.8	1849.2	1963.8	2036.1	2108.4	2158.0
32.5°	1269.1	1249.6	1359.3	1511.2	1645.3	1724.9	1789.9	1879.3	1961.3	2017.4	2048.3
35°	1206.5	1184.6	1305.7	1443.8	1586.8	1655.8	1710.3	1791.5	1860.6	1902.0	1932.1
37.5°	1144.0	1120.4	1237.4	1373.1	1509.6	1573.0	1618.5	1700.5	1753.3	1787.5	1812.6
40°	1073.3	1048.9	1166.7	1293.5	1429.2	1473.8	1521.0	1594.1	1633.1	1660.7	1672.9
42.5°	1001.8	977.4	1090.4	1209.8	1330.8	1374.7	1423.5	1481.2	1519.3	1535.6	1535.6
45°	927.9	904.3	1011.5	1126.9	1229.3	1279.7	1322.7	1369.0	1400.7	1413.7	1414.5
47.5°	850.7	831.2	933.5	1038.4	1134.2	1178.1	1211.4	1256.1	1283.7	1287.0	1286.2
50°	771.9	754.8	846.6	949.8	1035.1	1074.1	1103.3	1144.8	1166.7	1165.9	1161.8
52.5°	689.0	678.4	763.7	858.0	935.2	970.1	996.1	1032.7	1050.5	1050.5	1047.3
55°	610.2	603.7	677.6	768.6	840.9	871.8	896.2	928.7	943.3	943.3	938.4
57.5°	530.6	529.7	598.8	680.0	749.1	776.7	802.7	831.2	844.2	844.2	836.0
60°	452.6	456.6	524.9	599.6	663.0	689.8	712.5	740.2	748.3	749.9	748.3
62.5°	380.2	390.8	455.8	524.1	587.4	610.2	630.5	657.3	663.8	666.2	662.2
65°	312.0	328.2	394.1	459.1	518.4	541.9	559.8	578.5	584.2	586.6	585.8
67.5°	255.9	273.0	338.8	403.0	457.4	476.1	494.0	510.2	511.1	515.1	511.9
70°	198.2	224.2	290.1	351.0	402.2	419.2	433.9	445.2	447.7	448.5	447.7
72.5°	152.7	183.6	246.2	306.3	352.6	368.9	380.2	389.2	389.2	390.0	387.6
75°	115.4	152.7	213.7	268.9	310.4	326.6	335.6	341.2	338.0	337.2	334.7
77.5°	83.7	126.7	184.4	236.4	275.4	287.6	295.7	296.6	291.7	290.9	286.0
80°	57.7	103.2	159.2	208.0	243.7	255.9	260.0	256.7	252.7	247.8	241.3
82.5°	38.2	83.7	138.1	184.4	217.7	227.5	230.7	225.9	220.2	212.1	201.5
85°	20.3	67.4	120.2	164.9	196.6	205.6	207.2	198.2	189.3	178.7	168.2
87.5°	8.9	55.2	107.2	151.9	179.6	186.1	186.9	177.1	165.7	153.6	140.6
90°	1.6	47.1	99.1	142.2	169.0	174.7	174.7	161.7	150.3	137.3	122.7
92.5°	0.8	44.7	96.7	138.9	165.7	171.4	170.6	156.8	143.0	128.4	113.7
95°	0.8	39.0	91.0	135.7	163.3	169.0	168.2	153.6	138.9	123.5	107.2
97.5°	0.8	32.5	85.3	130.0	159.2	164.9	164.9	151.1	136.5	120.2	103.2
100°	0.0	25.2	78.8	124.3	153.6	160.9	161.7	148.7	133.2	117.0	100.7
102.5°	0.0	17.1	73.1	119.4	149.5	156.8	158.4	147.9	131.6	115.4	99.1
105°	0.8	10.6	65.8	113.7	145.4	153.6	156.0	147.1	130.8	115.4	99.1
107.5°	0.8	7.3	58.5	108.1	142.2	151.1	154.4	147.1	131.6	116.2	100.7
110°	0.8	6.5	49.6	102.4	138.1	147.9	152.7	147.9	133.2	118.6	103.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	4.9	37.4	95.1	133.2	144.6	151.1	148.7	135.7	121.1	106.4
115°	0.8	4.1	25.2	87.7	128.4	141.4	149.5	149.5	138.1	124.3	110.5
117.5°	0.8	4.1	17.1	78.0	122.7	137.3	146.2	150.3	141.4	127.6	115.4
120°	0.8	3.2	8.1	66.6	115.4	131.6	143.0	150.3	143.8	131.6	119.4
122.5°	0.8	3.2	6.5	51.2	107.2	125.1	138.1	149.5	146.2	134.9	124.3
125°	0.8	2.4	5.7	34.1	96.7	116.2	131.6	147.1	147.1	138.1	128.4
127.5°	0.8	2.4	4.9	24.4	82.9	106.4	122.7	143.0	147.1	140.6	132.4
130°	0.8	2.4	4.1	7.3	63.4	92.6	112.1	136.5	145.4	142.2	134.9
132.5°	0.8	1.6	4.1	5.7	40.6	72.3	97.5	125.9	140.6	142.2	137.3
135°	0.8	1.6	3.2	4.9	29.2	44.7	78.0	112.9	131.6	137.3	137.3
137.5°	0.8	1.6	3.2	4.1	13.0	33.3	48.7	97.5	120.2	130.8	133.2
140°	0.8	1.6	2.4	3.2	4.9	17.9	34.9	77.2	106.4	121.1	127.6
142.5°	0.8	1.6	2.4	3.2	4.1	4.1	21.1	44.7	89.4	108.1	118.6
145°	0.8	1.6	1.6	2.4	3.2	4.1	4.1	34.1	64.2	92.6	106.4
147.5°	0.8	0.8	1.6	2.4	3.2	3.2	3.2	15.4	38.2	70.7	91.0
150°	0.8	0.8	1.6	1.6	2.4	2.4	3.2	3.2	25.2	39.8	67.4
152.5°	0.8	0.8	1.6	1.6	2.4	2.4	2.4	3.2	3.2	26.8	37.4
155°	0.8	0.8	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	23.6
157.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	3.2
160°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6	1656.6
2.5°	1629.0	1641.2	1641.2	1651.8	1657.5	1655.8	1657.5	1660.7	1651.0	1647.7
5°	1680.2	1704.6	1716.8	1744.4	1750.9	1763.1	1767.1	1781.0	1784.2	1774.5
7.5°	1841.1	1891.5	1924.0	1957.3	1971.9	1979.2	1992.2	2001.1	2015.0	2004.4
10°	1992.2	2053.1	2099.5	2136.0	2145.0	2152.3	2167.7	2189.6	2188.0	2186.4
12.5°	2123.0	2176.6	2233.5	2286.3	2313.1	2318.8	2341.6	2368.4	2373.3	2351.3
15°	2231.1	2305.8	2370.0	2426.1	2436.6	2451.3	2468.3	2477.3	2473.2	2476.4
17.5°	2321.3	2384.6	2430.1	2460.2	2466.7	2478.1	2493.5	2504.9	2506.5	2507.3
20°	2357.0	2399.3	2443.1	2484.6	2497.6	2508.9	2527.6	2537.4	2535.8	2530.9
22.5°	2350.5	2412.3	2452.9	2487.0	2500.0	2510.6	2526.8	2533.3	2530.9	2526.0
25°	2340.8	2393.6	2429.3	2447.2	2447.2	2455.3	2451.3	2446.4	2440.7	2441.5
27.5°	2294.4	2325.3	2349.7	2370.0	2372.4	2373.3	2370.8	2365.9	2362.7	2355.4
30°	2200.2	2237.6	2248.9	2247.3	2244.1	2243.3	2233.5	2226.2	2217.3	2218.1
32.5°	2089.7	2097.8	2102.7	2088.9	2080.8	2079.1	2070.2	2058.0	2045.8	2032.8
35°	1947.5	1941.8	1930.5	1920.7	1914.2	1904.5	1891.5	1879.3	1863.8	1864.6
37.5°	1810.2	1792.3	1776.1	1749.3	1744.4	1721.6	1696.5	1677.0	1651.8	1638.0
40°	1667.2	1649.3	1629.0	1599.8	1586.8	1565.7	1538.0	1505.5	1485.2	1477.1
42.5°	1530.7	1508.8	1485.2	1450.3	1434.0	1417.0	1387.7	1356.0	1341.4	1339.0
45°	1397.5	1372.3	1349.5	1310.5	1293.5	1273.2	1243.1	1223.6	1202.5	1197.6
47.5°	1269.1	1247.2	1212.2	1182.2	1165.9	1148.8	1118.0	1100.1	1084.7	1079.0
50°	1144.8	1123.7	1096.9	1063.5	1048.1	1031.9	1009.9	992.9	975.0	969.3
52.5°	1033.5	1012.4	984.7	958.7	943.3	933.5	913.2	893.7	879.9	871.0
55°	926.2	906.7	881.5	857.2	851.5	838.5	814.9	797.9	788.9	789.7
57.5°	827.9	810.9	791.4	767.8	758.9	746.7	731.2	710.9	700.4	697.1
60°	738.5	722.3	706.0	688.2	676.8	667.9	646.7	630.5	616.7	615.0
62.5°	653.2	641.0	627.2	609.4	599.6	589.9	571.2	555.7	545.2	541.9
65°	579.3	568.7	552.5	537.9	528.1	518.4	500.5	485.1	476.1	467.2
67.5°	506.2	497.2	485.1	469.6	460.7	450.9	435.5	418.4	407.9	405.4
70°	441.2	431.4	421.7	405.4	397.3	391.6	374.6	357.5	349.4	346.1
72.5°	385.1	374.6	360.7	349.4	344.5	333.9	317.7	306.3	295.7	289.2
75°	326.6	320.1	310.4	297.4	288.4	281.1	268.1	256.7	247.8	241.3
77.5°	278.7	270.6	262.4	249.4	242.9	236.4	222.6	212.9	203.9	200.7
80°	234.0	226.7	215.3	205.6	199.9	194.2	183.6	173.1	166.6	163.3
82.5°	193.4	186.9	177.9	169.8	163.3	159.2	149.5	140.6	134.9	130.0
85°	160.1	151.9	143.8	136.5	131.6	128.4	121.1	114.6	107.2	105.6
87.5°	131.6	125.1	117.8	110.5	107.2	103.2	96.7	91.8	86.1	83.7
90°	112.9	104.8	98.3	92.6	89.4	86.9	82.1	75.6	71.5	69.1
92.5°	102.4	95.1	89.4	83.7	81.2	78.8	73.1	68.2	64.2	60.9
95°	95.9	88.6	82.9	78.0	75.6	73.9	69.1	64.2	60.1	57.7
97.5°	91.0	82.9	77.2	73.1	70.7	69.1	65.0	60.9	56.9	54.4
100°	86.9	78.8	73.1	69.1	67.4	65.8	61.7	57.7	54.4	52.0
102.5°	85.3	76.4	70.7	67.4	65.8	64.2	60.1	56.9	52.8	50.4
105°	85.3	75.6	69.9	65.8	64.2	62.6	59.3	56.1	52.0	49.6
107.5°	86.9	76.4	69.9	66.6	65.0	63.4	59.3	56.1	52.0	49.6
110°	89.4	78.8	71.5	67.4	65.8	64.2	60.1	56.9	52.8	50.4



TEST NUMBER: P232507

CATALOG NUMBER: 8SKB1-LD5-6-N-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	92.6	81.2	73.9	69.1	67.4	65.8	61.7	58.5	54.4	52.0
115°	96.7	84.5	77.2	71.5	69.9	68.2	64.2	60.1	56.9	54.4
117.5°	101.6	89.4	80.4	74.7	73.1	70.7	66.6	62.6	59.3	56.9
120°	106.4	95.1	85.3	78.8	76.4	73.9	69.9	65.8	61.7	59.3
122.5°	112.1	99.9	90.2	83.7	81.2	78.8	73.9	69.9	65.8	62.6
125°	117.8	106.4	95.9	88.6	85.3	82.9	78.0	73.1	69.9	66.6
127.5°	122.7	112.1	101.6	94.2	91.0	87.7	82.9	78.0	73.9	71.5
130°	126.7	117.8	108.1	99.9	96.7	94.2	87.7	82.9	78.8	76.4
132.5°	130.8	122.7	114.6	106.4	103.2	99.9	94.2	88.6	84.5	81.2
135°	133.2	126.7	120.2	112.9	109.7	105.6	99.9	94.2	89.4	86.1
137.5°	133.2	130.0	124.3	118.6	115.4	112.1	105.6	99.9	95.1	92.6
140°	129.2	130.0	127.6	123.5	120.2	117.8	112.1	105.6	100.7	98.3
142.5°	123.5	125.9	127.6	125.1	123.5	121.9	117.0	111.3	106.4	103.2
145°	114.6	119.4	122.7	125.1	124.3	123.5	119.4	115.4	110.5	107.2
147.5°	103.2	110.5	114.6	120.2	121.9	121.9	120.2	117.0	112.9	110.5
150°	86.9	97.5	104.8	110.5	112.9	116.2	116.2	113.7	111.3	108.9
152.5°	61.7	78.8	89.4	97.5	100.7	104.0	108.1	106.4	103.2	101.6
155°	34.9	43.1	65.0	78.0	82.1	86.1	92.6	94.2	93.4	91.0
157.5°	17.9	29.2	36.6	42.2	44.7	51.2	64.2	73.1	72.3	73.9
160°	4.1	4.9	13.8	26.0	29.2	30.9	34.1	36.6	36.6	34.9
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)