

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: P232492

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SKB1-LD5-8-W-UNV-L835-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7521.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Semi-Direct

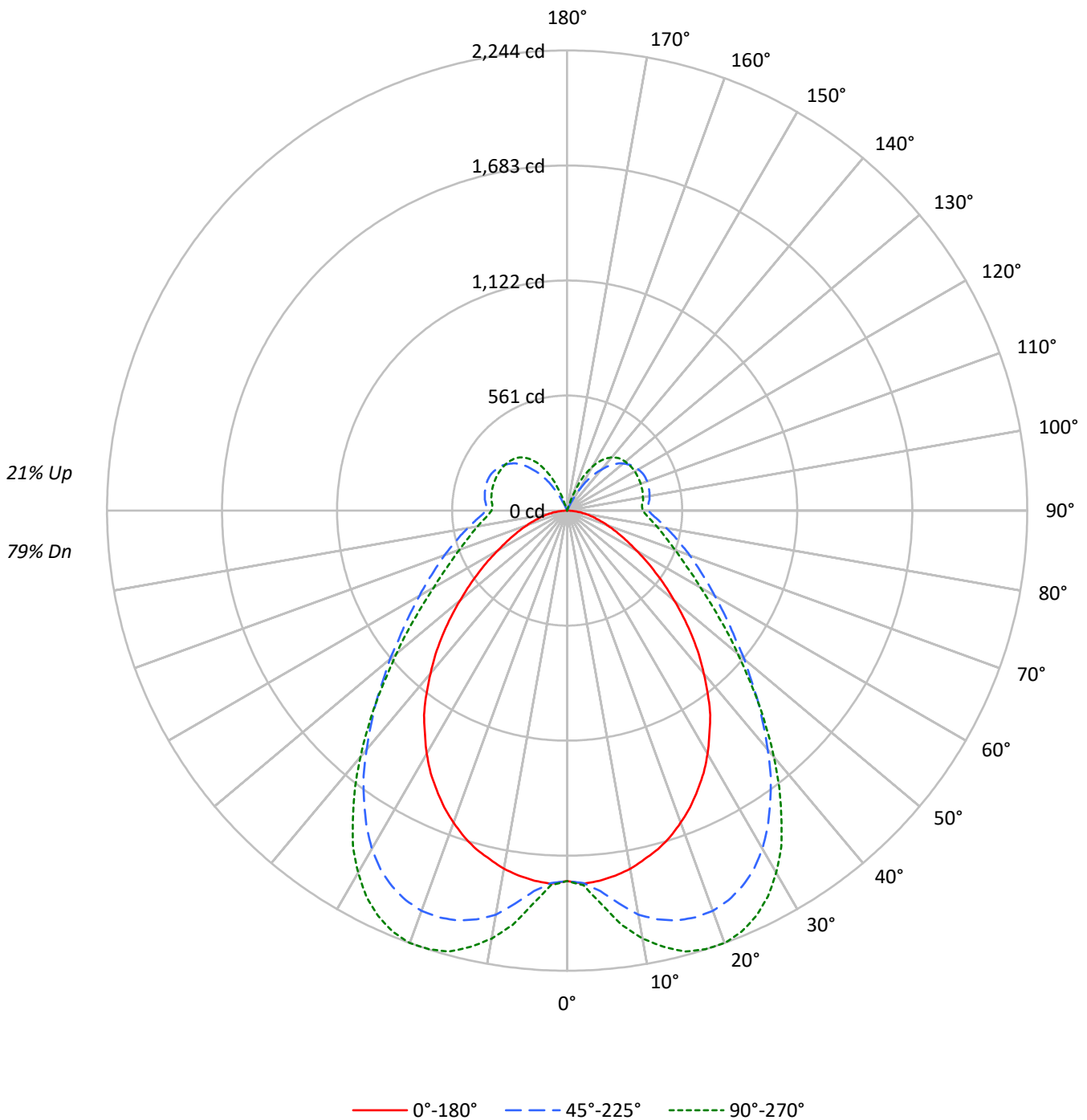
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	103	97	93	88	98	93	89	85	85	82	78	77	75	72	70	68	67	63
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	85	74	66	60	81	71	64	58	65	59	54	60	55	51	55	51	47	44
4	78	66	57	51	74	63	55	49	58	51	46	53	48	43	49	44	41	38
5	72	59	50	44	68	57	49	42	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	40	34	58	46	38	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9722	9722	9722
5°	9757	9366	9443
10°	9632	9509	9604
15°	9436	9389	9449
20°	9152	9082	9023
25°	8785	8595	8391
30°	8335	7938	7571
35°	7796	7112	6583
40°	7064	6239	5568
45°	6299	5409	4617
50°	5468	4686	3804
55°	4679	4078	3163
60°	3965	3620	2671
65°	3398	3263	2332
70°	2971	2999	2092
75°	2594	2775	1920
80°	2222	2613	1805
85°	1652	2516	1719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	2.4
10°-20°	573.4	7.6
20°-30°	898.5	11.9
30°-40°	1028.8	13.7
40°-50°	947.6	12.6
50°-60°	777.7	10.3
60°-70°	621.8	8.3
70°-80°	499.5	6.6
80°-90°	397.3	5.3
90°-100°	355.1	4.7
100°-110°	345.8	4.6
110°-120°	313.4	4.2
120°-130°	259.0	3.4
130°-140°	185.8	2.5
140°-150°	103.2	1.4
150°-160°	31.1	0.4
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	1654.2	22.0
0°-40°	2683.0	35.7
0°-60°	4408.3	58.6
0°-90°	5926.8	78.8
90°-120°	1014.3	13.5
90°-150°	1562.4	20.8
90°-180°	1594.0	21.2
0°-180°	7521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1812	1830	1863	1926	1926	172
15°	1710	1883	2069	2199	2226	481
25°	1505	1791	2022	2164	2182	692
35°	1217	1513	1727	1829	1820	756
45°	858	1142	1315	1350	1314	662
55°	525	821	963	938	899	473
65°	288	602	724	674	641	289
75°	142	459	557	515	494	152
85°	38	347	437	410	399	41
90°	2	308	396	378	369	3
95°	1	306	398	378	367	1
105°	1	300	413	393	380	1
115°	1	270	412	400	382	1
125°	1	211	384	397	378	1
135°	1	77	319	371	360	1
145°	1	3	196	300	303	1
155°	1	1	30	140	175	1
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°	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4
2.5°	1821.5	1813.9	1808.5	1813.9	1816.1	1818.3	1823.7	1822.6	1823.7	1821.5	1818.3
5°	1811.8	1805.3	1803.1	1813.9	1824.8	1830.2	1837.7	1845.3	1851.8	1860.5	1862.6
7.5°	1795.6	1792.3	1794.5	1813.9	1831.3	1844.2	1855.0	1874.5	1894.0	1913.5	1931.8
10°	1773.9	1771.8	1781.5	1810.7	1838.8	1857.2	1875.6	1911.3	1944.8	1975.1	2001.1
12.5°	1741.5	1746.9	1763.1	1802.0	1846.4	1872.4	1901.6	1945.9	1981.6	2016.2	2042.2
15°	1710.1	1713.3	1744.7	1791.2	1843.1	1883.2	1913.5	1969.7	2006.5	2042.2	2069.2
17.5°	1669.0	1676.6	1711.2	1777.2	1841.0	1876.7	1913.5	1957.8	2002.2	2043.3	2080.0
20°	1619.2	1635.5	1682.0	1754.5	1826.9	1862.6	1895.1	1949.2	1994.6	2034.6	2076.8
22.5°	1566.2	1584.6	1636.6	1723.1	1797.7	1833.4	1864.8	1924.3	1970.8	2010.8	2056.2
25°	1504.6	1528.4	1590.0	1683.1	1754.5	1791.2	1824.8	1885.3	1934.0	1974.0	2021.6
27.5°	1441.9	1468.9	1536.0	1630.1	1703.6	1738.2	1772.8	1833.4	1882.1	1922.1	1971.9
30°	1369.4	1398.6	1474.3	1565.2	1637.6	1675.5	1706.9	1766.4	1819.4	1855.0	1904.8
32.5°	1291.5	1325.0	1406.2	1493.8	1566.2	1601.9	1633.3	1690.6	1738.2	1776.1	1821.5
35°	1216.9	1243.9	1326.1	1411.6	1480.8	1513.2	1550.0	1605.2	1647.4	1686.3	1727.4
37.5°	1127.1	1159.5	1242.8	1324.0	1393.2	1427.8	1458.1	1508.9	1547.9	1584.6	1631.1
40°	1036.2	1071.9	1158.5	1230.9	1302.3	1329.4	1359.6	1406.2	1442.9	1488.4	1521.9
42.5°	950.8	984.3	1066.5	1140.1	1207.1	1234.2	1263.4	1312.1	1343.4	1382.4	1415.9
45°	857.8	892.4	980.0	1049.2	1113.0	1142.2	1172.5	1212.5	1248.2	1279.6	1315.3
47.5°	769.1	810.2	894.5	959.4	1024.3	1051.4	1077.3	1119.5	1155.2	1188.7	1213.6
50°	681.4	725.8	808.0	878.3	940.0	967.0	993.0	1035.1	1071.9	1101.1	1127.1
52.5°	601.4	647.9	732.3	805.8	861.0	889.1	915.1	956.2	993.0	1020.0	1037.3
55°	524.6	576.5	664.1	735.5	790.7	821.0	841.5	884.8	921.6	946.5	962.7
57.5°	457.5	514.9	598.2	671.7	729.0	756.1	781.0	822.1	856.7	880.5	893.5
60°	391.6	455.4	541.9	613.3	671.7	697.7	724.7	765.8	798.3	819.9	831.8
62.5°	336.4	403.5	493.2	562.5	622.0	647.9	671.7	712.8	744.2	765.8	775.6
65°	287.7	358.0	448.9	518.1	575.4	602.5	627.4	669.5	698.8	719.3	723.6
67.5°	245.5	316.9	408.9	477.0	536.5	561.4	586.3	628.4	656.6	673.9	677.1
70°	207.7	280.1	372.1	440.2	498.6	525.7	550.6	588.4	617.6	631.7	636.0
72.5°	173.1	248.8	337.5	407.8	466.2	491.1	514.9	554.9	581.9	594.9	593.8
75°	141.7	219.6	308.3	377.5	432.7	458.6	482.4	521.4	548.4	559.2	557.1
77.5°	114.7	194.7	280.1	347.2	403.5	429.4	451.1	490.0	514.9	526.8	524.6
80°	86.5	167.7	253.1	319.1	375.3	399.1	422.9	459.7	484.6	496.5	491.1
82.5°	62.7	142.8	228.2	293.1	348.3	373.2	394.8	432.7	456.5	466.2	463.0
85°	37.9	117.9	201.2	268.3	323.4	347.2	371.0	406.7	430.5	440.2	437.0
87.5°	16.2	95.2	178.5	245.5	300.7	324.5	347.2	382.9	405.6	415.4	412.1
90°	2.2	80.0	164.4	230.4	284.5	308.3	331.0	366.7	389.4	399.1	395.9
92.5°	1.1	76.8	160.1	226.1	280.1	305.0	326.7	363.4	387.2	395.9	394.8
95°	1.1	71.4	157.9	226.1	281.2	306.1	328.8	365.6	389.4	399.1	398.1
97.5°	1.1	63.8	154.7	225.0	282.3	308.3	331.0	369.9	394.8	405.6	404.5
100°	1.1	51.9	148.2	221.7	280.1	307.2	329.9	369.9	395.9	407.8	407.8
102.5°	1.1	35.7	140.6	216.3	278.0	303.9	327.7	368.8	395.9	408.9	411.0
105°	1.1	21.6	130.9	209.8	272.6	299.6	324.5	366.7	394.8	409.9	413.2
107.5°	1.1	14.1	119.0	202.3	267.2	295.3	320.2	363.4	392.6	409.9	414.3
110°	1.1	11.9	103.8	193.6	259.6	287.7	313.7	359.1	389.4	408.9	415.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.1	9.7	80.0	181.7	250.9	280.1	307.2	351.5	385.1	404.5	414.3
115°	1.1	7.6	51.9	167.7	240.1	270.4	297.5	344.0	377.5	400.2	412.1
117.5°	1.1	6.5	33.5	151.4	228.2	258.5	286.6	334.2	369.9	393.7	407.8
120°	1.1	5.4	14.1	129.8	213.1	245.5	273.7	321.3	359.1	385.1	401.3
122.5°	1.1	4.3	10.8	97.3	195.8	229.3	258.5	308.3	346.1	375.3	392.6
125°	1.1	4.3	8.7	62.7	174.1	210.9	242.3	293.1	333.2	363.4	384.0
127.5°	1.1	3.2	7.6	42.2	148.2	189.3	222.8	275.8	316.9	348.3	371.0
130°	1.1	3.2	6.5	18.4	110.3	162.2	199.0	255.3	298.5	332.1	356.9
132.5°	1.1	2.2	5.4	7.6	68.1	125.5	168.7	229.3	276.9	312.6	340.7
135°	1.1	2.2	4.3	6.5	45.4	76.8	132.0	200.1	248.8	286.6	319.1
137.5°	1.1	2.2	3.2	5.4	18.4	50.8	81.1	167.7	218.5	258.5	292.0
140°	1.1	2.2	3.2	4.3	5.4	23.8	55.2	127.6	185.0	228.2	260.7
142.5°	1.1	2.2	3.2	3.2	4.3	5.4	27.0	74.6	148.2	194.7	230.4
145°	1.1	1.1	2.2	3.2	3.2	3.2	4.3	50.8	96.3	157.9	195.8
147.5°	1.1	1.1	2.2	2.2	3.2	3.2	3.2	20.6	59.5	111.4	157.9
150°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	30.3	60.6	107.1
152.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.2	34.6	59.5
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2	30.3
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4	1806.4
2.5°	1823.7	1833.4	1837.7	1842.1	1843.1	1844.2	1842.1	1841.0	1833.4	1829.1
5°	1877.8	1901.6	1911.3	1925.4	1926.4	1927.5	1934.0	1930.8	1931.8	1926.4
7.5°	1956.7	1991.3	2006.5	2024.9	2029.2	2034.6	2045.4	2046.5	2045.4	2037.8
10°	2030.3	2059.5	2082.2	2099.5	2106.0	2110.3	2123.3	2126.5	2124.4	2119.0
12.5°	2074.6	2112.5	2135.2	2160.1	2166.6	2173.1	2183.9	2189.3	2182.8	2179.5
15°	2112.5	2152.5	2170.9	2197.9	2199.0	2210.9	2229.3	2231.5	2228.2	2226.1
17.5°	2122.2	2163.3	2190.4	2214.2	2222.8	2230.4	2241.2	2249.9	2250.9	2242.3
20°	2120.1	2159.0	2191.4	2216.3	2226.1	2231.5	2245.5	2252.0	2248.8	2244.4
22.5°	2102.7	2141.7	2174.1	2195.8	2204.4	2213.1	2226.1	2231.5	2231.5	2222.8
25°	2067.1	2106.0	2134.1	2156.8	2164.4	2173.1	2186.0	2189.3	2187.1	2181.7
27.5°	2016.2	2050.8	2079.0	2098.4	2106.0	2113.6	2127.6	2130.9	2126.5	2121.1
30°	1941.6	1977.3	2005.4	2022.7	2029.2	2034.6	2043.3	2050.8	2044.3	2038.9
32.5°	1860.5	1892.9	1912.4	1928.6	1932.9	1937.3	1945.9	1949.2	1942.7	1943.7
35°	1765.3	1793.4	1816.1	1826.9	1829.1	1828.0	1832.3	1833.4	1834.5	1820.4
37.5°	1661.4	1686.3	1697.1	1712.3	1709.0	1714.4	1718.8	1714.4	1703.6	1698.2
40°	1550.0	1566.2	1584.6	1590.0	1586.8	1594.4	1592.2	1584.6	1572.7	1568.4
42.5°	1439.7	1458.1	1464.6	1468.9	1465.6	1466.7	1462.4	1460.2	1448.3	1438.6
45°	1334.8	1347.7	1351.0	1349.9	1349.9	1344.5	1339.1	1330.4	1319.6	1314.2
47.5°	1232.0	1240.7	1241.7	1236.3	1232.0	1225.5	1226.6	1211.5	1198.5	1192.0
50°	1136.8	1140.1	1136.8	1127.1	1124.9	1117.4	1113.0	1101.1	1089.2	1086.0
52.5°	1051.4	1050.3	1043.8	1033.0	1028.7	1021.1	1013.5	1002.7	990.8	990.8
55°	968.1	964.8	956.2	944.3	937.8	934.6	924.8	912.9	904.3	898.9
57.5°	895.6	889.1	878.3	867.5	858.8	850.2	843.7	835.0	824.2	822.1
60°	830.7	817.7	808.0	796.1	789.6	782.0	773.4	766.9	758.2	749.6
62.5°	770.1	759.3	746.3	734.4	728.0	721.5	712.8	703.1	697.7	695.5
65°	717.1	706.3	691.2	679.3	673.9	667.4	660.9	650.1	646.8	641.4
67.5°	669.5	655.5	641.4	630.6	625.2	623.0	616.5	610.1	602.5	598.2
70°	625.2	611.1	598.2	590.6	584.1	581.9	576.5	567.9	562.5	559.2
72.5°	583.0	571.1	560.3	549.5	545.2	544.1	539.7	533.3	527.9	524.6
75°	547.3	535.4	524.6	519.2	514.9	511.6	509.5	503.0	499.7	494.3
77.5°	516.0	501.9	492.2	486.7	483.5	481.3	479.2	475.9	471.6	468.4
80°	482.4	471.6	464.0	458.6	456.5	454.3	452.1	450.0	446.7	443.5
82.5°	454.3	444.6	438.1	433.7	433.7	431.6	430.5	428.3	425.1	420.8
85°	427.3	418.6	413.2	411.0	409.9	408.9	407.8	405.6	402.4	399.1
87.5°	404.5	398.1	392.6	391.6	391.6	390.5	389.4	388.3	385.1	381.8
90°	389.4	382.9	379.7	378.6	377.5	377.5	377.5	375.3	372.1	368.8
92.5°	387.2	380.7	377.5	375.3	375.3	375.3	375.3	373.2	369.9	365.6
95°	390.5	384.0	380.7	378.6	377.5	377.5	376.4	374.3	371.0	366.7
97.5°	398.1	391.6	387.2	384.0	382.9	382.9	381.8	379.7	376.4	373.2
100°	402.4	395.9	391.6	388.3	387.2	386.2	385.1	382.9	379.7	375.3
102.5°	405.6	399.1	393.7	391.6	390.5	389.4	387.2	385.1	381.8	377.5
105°	407.8	402.4	398.1	393.7	392.6	391.6	389.4	387.2	382.9	379.7
107.5°	411.0	405.6	400.2	397.0	394.8	393.7	391.6	389.4	385.1	380.7
110°	412.1	407.8	402.4	399.1	397.0	395.9	392.6	389.4	385.1	381.8



TEST NUMBER: P232492

CATALOG NUMBER: 8SKB1-LD5-8-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	413.2	409.9	404.5	400.2	399.1	397.0	393.7	390.5	386.2	381.8
115°	413.2	409.9	405.6	401.3	400.2	398.1	394.8	390.5	386.2	381.8
117.5°	412.1	409.9	406.7	402.4	400.2	398.1	394.8	390.5	385.1	381.8
120°	408.9	408.9	405.6	402.4	400.2	398.1	393.7	389.4	385.1	380.7
122.5°	403.5	405.6	403.5	400.2	399.1	397.0	393.7	388.3	382.9	379.7
125°	395.9	401.3	400.2	398.1	397.0	394.8	391.6	387.2	381.8	377.5
127.5°	386.2	393.7	395.9	394.8	393.7	392.6	388.3	384.0	379.7	374.3
130°	374.3	384.0	388.3	388.3	388.3	387.2	385.1	380.7	375.3	371.0
132.5°	359.1	371.0	377.5	380.7	380.7	380.7	378.6	375.3	371.0	365.6
135°	341.8	356.9	365.6	369.9	371.0	371.0	371.0	368.8	364.5	360.2
137.5°	321.3	338.6	350.5	356.9	359.1	360.2	361.3	359.1	354.8	350.5
140°	291.0	315.8	331.0	339.6	341.8	345.0	347.2	345.0	341.8	338.6
142.5°	260.7	286.6	308.3	320.2	322.3	325.6	328.8	328.8	325.6	322.3
145°	228.2	254.2	276.9	296.4	299.6	302.9	307.2	309.4	306.1	302.9
147.5°	190.4	217.4	241.2	262.8	272.6	276.9	281.2	283.4	282.3	279.1
150°	150.4	179.6	202.3	223.9	233.6	246.6	252.0	253.1	252.0	248.8
152.5°	90.9	133.0	159.0	180.6	189.3	201.2	216.3	219.6	217.4	215.3
155°	50.8	69.2	97.3	129.8	139.5	150.4	168.7	176.3	175.2	175.2
157.5°	15.1	37.9	51.9	63.8	68.1	74.6	96.3	114.7	120.1	121.1
160°	1.1	1.1	13.0	26.0	32.4	38.9	49.8	56.2	57.3	58.4
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)