

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: P232576

Luminaire Tested: **4SKB1-LD5-8-W-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232576
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: 4SKB1-LD5-8-W-UNV-L835-CD1-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (238) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7561.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Semi-Direct

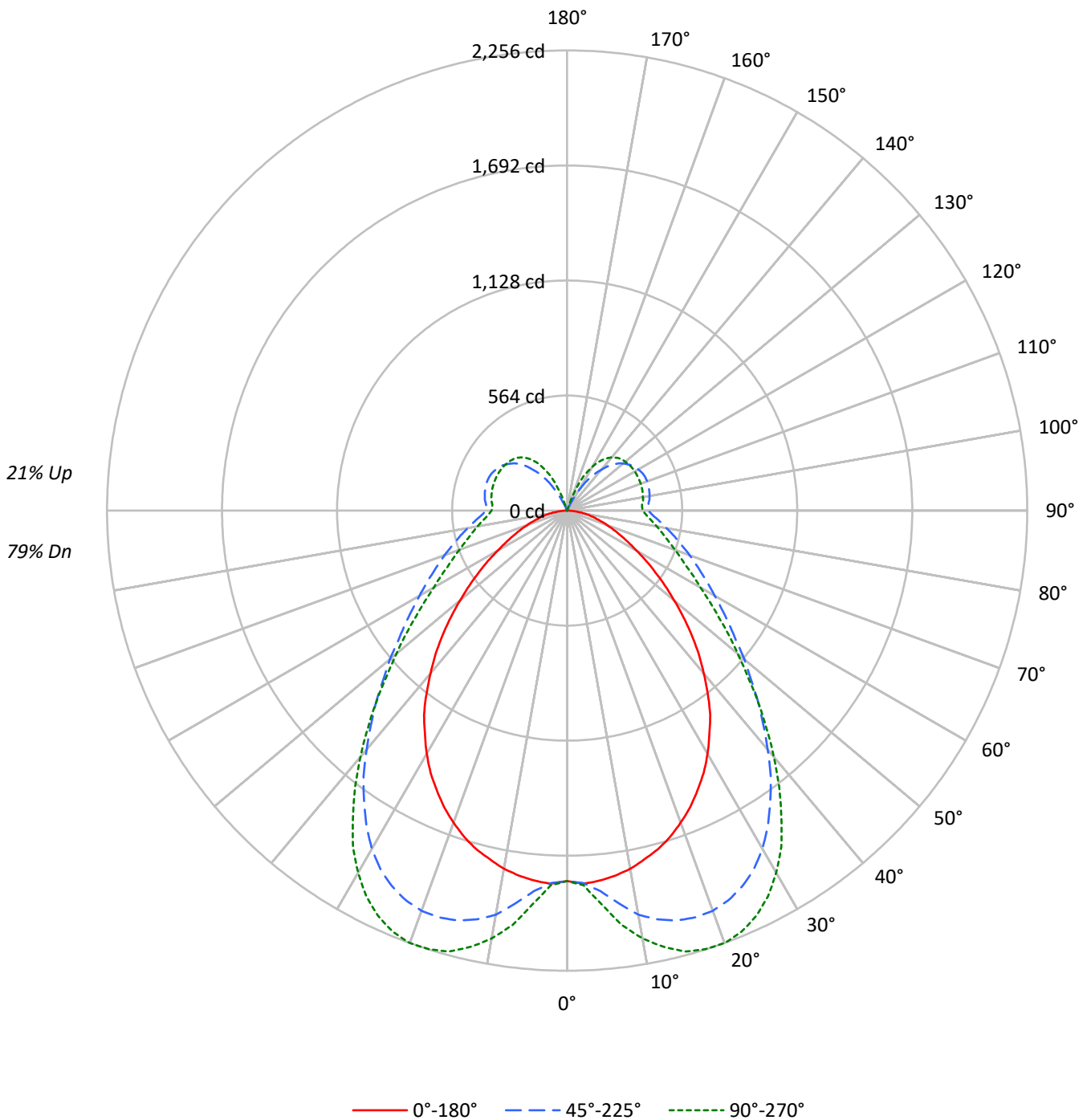
Input Watts (W): 65.23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19547	19547	19547
5°	19556	18791	18988
10°	19245	19044	19310
15°	18791	18772	18999
20°	18165	18131	18142
25°	17374	17135	16871
30°	16420	15803	15223
35°	15294	14141	13236
40°	13793	12387	11195
45°	12234	10726	9282
50°	10555	9280	7648
55°	8964	8065	6360
60°	7523	7149	5371
65°	6372	6434	4690
70°	5474	5904	4207
75°	4659	5453	3860
80°	3815	5125	3628
85°	2566	4924	3457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	2.4
10°-20°	576.4	7.6
20°-30°	903.2	11.9
30°-40°	1034.3	13.7
40°-50°	952.6	12.6
50°-60°	781.8	10.3
60°-70°	625.1	8.3
70°-80°	502.1	6.6
80°-90°	399.4	5.3
90°-100°	357.0	4.7
100°-110°	347.7	4.6
110°-120°	315.1	4.2
120°-130°	260.4	3.4
130°-140°	186.8	2.5
140°-150°	103.8	1.4
150°-160°	31.2	0.4
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	1663.0	22.0
0°-40°	2697.3	35.7
0°-60°	4431.7	58.6
0°-90°	5958.3	78.8
90°-120°	1019.7	13.5
90°-150°	1570.7	20.8
90°-180°	1603.0	21.2
0°-180°	7561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1821	1840	1872	1937	1937	173
15°	1719	1893	2080	2211	2238	483
25°	1513	1801	2032	2176	2193	695
35°	1223	1521	1737	1839	1830	760
45°	862	1148	1322	1357	1321	665
55°	527	825	968	943	904	476
65°	289	606	728	678	645	291
75°	142	461	560	518	497	153
85°	38	349	439	412	401	42
90°	2	310	398	380	371	3
95°	1	308	400	380	369	1
105°	1	301	415	395	382	1
115°	1	272	414	402	384	1
125°	1	212	386	399	380	1
135°	1	77	321	373	362	1
145°	1	3	197	301	304	1
155°	1	1	30	140	176	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°	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0
2.5°	1831.2	1823.6	1818.2	1823.6	1825.8	1827.9	1833.4	1832.3	1833.4	1831.2	1827.9
5°	1821.4	1814.9	1812.7	1823.6	1834.5	1839.9	1847.5	1855.1	1861.7	1870.3	1872.5
7.5°	1805.1	1801.8	1804.0	1823.6	1841.0	1854.0	1864.9	1884.5	1904.1	1923.6	1942.1
10°	1783.4	1781.2	1791.0	1820.3	1848.6	1867.1	1885.6	1921.5	1955.2	1985.6	2011.7
12.5°	1750.7	1756.2	1772.5	1811.6	1856.2	1882.3	1911.7	1956.3	1992.1	2026.9	2053.0
15°	1719.2	1722.5	1754.0	1800.8	1853.0	1893.2	1923.6	1980.2	2017.2	2053.0	2080.2
17.5°	1677.9	1685.5	1720.3	1786.6	1850.8	1886.7	1923.6	1968.2	2012.8	2054.1	2091.1
20°	1627.9	1644.2	1690.9	1763.8	1836.6	1872.5	1905.1	1959.5	2005.2	2045.4	2087.8
22.5°	1574.6	1593.1	1645.3	1732.2	1807.3	1843.2	1874.7	1934.5	1981.3	2021.5	2067.2
25°	1512.6	1536.5	1598.5	1692.0	1763.8	1800.8	1834.5	1895.4	1944.3	1984.5	2032.4
27.5°	1449.5	1476.7	1544.1	1638.7	1712.7	1747.5	1782.3	1843.2	1892.1	1932.3	1982.4
30°	1376.7	1406.0	1482.1	1573.5	1646.3	1684.4	1715.9	1775.7	1829.0	1864.9	1914.9
32.5°	1298.4	1332.1	1413.6	1501.7	1574.6	1610.5	1642.0	1699.6	1747.5	1785.5	1831.2
35°	1223.3	1250.5	1333.2	1419.1	1488.7	1521.3	1558.3	1613.7	1656.1	1695.3	1736.6
37.5°	1133.1	1165.7	1249.4	1331.0	1400.6	1435.4	1465.8	1516.9	1556.1	1593.1	1639.8
40°	1041.7	1077.6	1164.6	1237.5	1309.2	1336.4	1366.9	1413.6	1450.6	1496.3	1530.0
42.5°	955.8	989.5	1072.2	1146.1	1213.6	1240.7	1270.1	1319.0	1350.6	1389.7	1423.4
45°	862.3	897.1	985.2	1054.8	1118.9	1148.3	1178.8	1219.0	1254.9	1286.4	1322.3
47.5°	773.2	814.5	899.3	964.5	1029.8	1057.0	1083.1	1125.5	1161.4	1195.1	1220.1
50°	685.1	729.7	812.3	883.0	945.0	972.1	998.2	1040.7	1077.6	1107.0	1133.1
52.5°	604.6	651.4	736.2	810.1	865.6	893.9	920.0	961.3	998.2	1025.4	1042.8
55°	527.4	579.6	667.7	739.4	794.9	825.3	846.0	889.5	926.5	951.5	967.8
57.5°	460.0	517.6	601.3	675.3	732.9	760.1	785.1	826.4	861.2	885.2	898.2
60°	393.6	457.8	544.8	616.6	675.3	701.4	728.6	769.9	802.5	824.3	836.2
62.5°	338.2	405.6	495.9	565.5	625.3	651.4	675.3	716.6	748.1	769.9	779.7
65°	289.3	359.9	451.3	520.9	578.5	605.7	630.7	673.1	702.5	723.1	727.5
67.5°	246.8	318.6	411.0	479.5	539.4	564.4	589.4	631.8	660.1	677.5	680.7
70°	208.8	281.6	374.1	442.6	501.3	528.5	553.5	591.6	620.9	635.0	639.4
72.5°	174.0	250.1	339.3	410.0	468.7	493.7	517.6	557.8	585.0	598.1	597.0
75°	142.5	220.7	309.9	379.5	435.0	461.1	485.0	524.1	551.3	562.2	560.0
77.5°	115.3	195.7	281.6	349.1	405.6	431.7	453.5	492.6	517.6	529.6	527.4
80°	87.0	168.5	254.5	320.8	377.3	401.3	425.2	462.2	487.2	499.1	493.7
82.5°	63.1	143.5	229.4	294.7	350.1	375.2	396.9	435.0	458.9	468.7	465.4
85°	38.1	118.5	202.3	269.7	325.1	349.1	373.0	408.9	432.8	442.6	439.3
87.5°	16.3	95.7	179.4	246.8	302.3	326.2	349.1	384.9	407.8	417.6	414.3
90°	2.2	80.5	165.3	231.6	286.0	309.9	332.7	368.6	391.5	401.3	398.0
92.5°	1.1	77.2	160.9	227.3	281.6	306.7	328.4	365.4	389.3	398.0	396.9
95°	1.1	71.8	158.8	227.3	282.7	307.7	330.6	367.5	391.5	401.3	400.2
97.5°	1.1	64.2	155.5	226.2	283.8	309.9	332.7	371.9	396.9	407.8	406.7
100°	1.1	52.2	149.0	222.9	281.6	308.8	331.7	371.9	398.0	410.0	410.0
102.5°	1.1	35.9	141.4	217.5	279.5	305.6	329.5	370.8	398.0	411.0	413.2
105°	1.1	21.7	131.6	211.0	274.0	301.2	326.2	368.6	396.9	412.1	415.4
107.5°	1.1	14.1	119.6	203.3	268.6	296.9	321.9	365.4	394.7	412.1	416.5
110°	1.1	12.0	104.4	194.6	261.0	289.3	315.3	361.0	391.5	411.0	417.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.1	9.8	80.5	182.7	252.3	281.6	308.8	353.4	387.1	406.7	416.5
115°	1.1	7.6	52.2	168.5	241.4	271.9	299.0	345.8	379.5	402.3	414.3
117.5°	1.1	6.5	33.7	152.2	229.4	259.9	288.2	336.0	371.9	395.8	410.0
120°	1.1	5.4	14.1	130.5	214.2	246.8	275.1	323.0	361.0	387.1	403.4
122.5°	1.1	4.3	10.9	97.9	196.8	230.5	259.9	309.9	348.0	377.3	394.7
125°	1.1	4.3	8.7	63.1	175.1	212.0	243.6	294.7	334.9	365.4	386.0
127.5°	1.1	3.3	7.6	42.4	149.0	190.3	224.0	277.3	318.6	350.1	373.0
130°	1.1	3.3	6.5	18.5	110.9	163.1	200.1	256.6	300.1	333.8	358.8
132.5°	1.1	2.2	5.4	7.6	68.5	126.1	169.6	230.5	278.4	314.3	342.5
135°	1.1	2.2	4.3	6.5	45.7	77.2	132.7	201.2	250.1	288.2	320.8
137.5°	1.1	2.2	3.3	5.4	18.5	51.1	81.6	168.5	219.7	259.9	293.6
140°	1.1	2.2	3.3	4.3	5.4	23.9	55.5	128.3	185.9	229.4	262.1
142.5°	1.1	2.2	3.3	3.3	4.3	5.4	27.2	75.0	149.0	195.7	231.6
145°	1.1	1.1	2.2	3.3	3.3	3.3	4.3	51.1	96.8	158.8	196.8
147.5°	1.1	1.1	2.2	2.2	3.3	3.3	3.3	20.7	59.8	112.0	158.8
150°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	30.4	60.9	107.7
152.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.3	34.8	59.8
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.3	30.4
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°	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0
2.5°	1833.4	1843.2	1847.5	1851.9	1853.0	1854.0	1851.9	1850.8	1843.2	1838.8
5°	1887.7	1911.7	1921.5	1935.6	1936.7	1937.8	1944.3	1941.0	1942.1	1936.7
7.5°	1967.1	2001.9	2017.2	2035.6	2040.0	2045.4	2056.3	2057.4	2056.3	2048.7
10°	2041.1	2070.4	2093.3	2110.7	2117.2	2121.5	2134.6	2137.9	2135.7	2130.2
12.5°	2085.7	2123.7	2146.6	2171.6	2178.1	2184.6	2195.5	2200.9	2194.4	2191.1
15°	2123.7	2164.0	2182.4	2209.6	2210.7	2222.7	2241.2	2243.3	2240.1	2237.9
17.5°	2133.5	2174.8	2202.0	2225.9	2234.6	2242.2	2253.1	2261.8	2262.9	2254.2
20°	2131.3	2170.5	2203.1	2228.1	2237.9	2243.3	2257.5	2264.0	2260.7	2256.4
22.5°	2113.9	2153.1	2185.7	2207.4	2216.1	2224.8	2237.9	2243.3	2243.3	2234.6
25°	2078.0	2117.2	2145.5	2168.3	2175.9	2184.6	2197.7	2200.9	2198.7	2193.3
27.5°	2026.9	2061.7	2090.0	2109.6	2117.2	2124.8	2138.9	2142.2	2137.9	2132.4
30°	1951.9	1987.8	2016.1	2033.5	2040.0	2045.4	2054.1	2061.7	2055.2	2049.8
32.5°	1870.3	1903.0	1922.5	1938.9	1943.2	1947.6	1956.3	1959.5	1953.0	1954.1
35°	1774.7	1802.9	1825.8	1836.6	1838.8	1837.7	1842.1	1843.2	1844.3	1830.1
37.5°	1670.3	1695.3	1706.2	1721.4	1718.1	1723.5	1727.9	1723.5	1712.7	1707.2
40°	1558.3	1574.6	1593.1	1598.5	1595.2	1602.8	1600.7	1593.1	1581.1	1576.7
42.5°	1447.3	1465.8	1472.4	1476.7	1473.4	1474.5	1470.2	1468.0	1456.0	1446.3
45°	1341.9	1354.9	1358.2	1357.1	1357.1	1351.7	1346.2	1337.5	1326.6	1321.2
47.5°	1238.6	1247.3	1248.3	1242.9	1238.6	1232.0	1233.1	1217.9	1204.9	1198.3
50°	1142.9	1146.1	1142.9	1133.1	1130.9	1123.3	1118.9	1107.0	1095.0	1091.8
52.5°	1057.0	1055.9	1049.4	1038.5	1034.1	1026.5	1018.9	1008.0	996.1	996.1
55°	973.2	970.0	961.3	949.3	942.8	939.5	929.7	917.8	909.1	903.6
57.5°	900.4	893.9	883.0	872.1	863.4	854.7	848.2	839.5	828.6	826.4
60°	835.1	822.1	812.3	800.3	793.8	786.2	777.5	771.0	762.3	753.6
62.5°	774.2	763.4	750.3	738.4	731.8	725.3	716.6	706.8	701.4	699.2
65°	721.0	710.1	694.9	682.9	677.5	670.9	664.4	653.5	650.3	644.8
67.5°	673.1	659.0	644.8	634.0	628.5	626.3	619.8	613.3	605.7	601.3
70°	628.5	614.4	601.3	593.7	587.2	585.0	579.6	570.9	565.5	562.2
72.5°	586.1	574.2	563.3	552.4	548.1	547.0	542.6	536.1	530.7	527.4
75°	550.2	538.3	527.4	522.0	517.6	514.3	512.2	505.6	502.4	496.9
77.5°	518.7	504.6	494.8	489.3	486.1	483.9	481.7	478.5	474.1	470.8
80°	485.0	474.1	466.5	461.1	458.9	456.7	454.5	452.4	449.1	445.8
82.5°	456.7	446.9	440.4	436.1	436.1	433.9	432.8	430.6	427.4	423.0
85°	429.5	420.8	415.4	413.2	412.1	411.0	410.0	407.8	404.5	401.3
87.5°	406.7	400.2	394.7	393.6	393.6	392.6	391.5	390.4	387.1	383.9
90°	391.5	384.9	381.7	380.6	379.5	379.5	379.5	377.3	374.1	370.8
92.5°	389.3	382.8	379.5	377.3	377.3	377.3	377.3	375.2	371.9	367.5
95°	392.6	386.0	382.8	380.6	379.5	379.5	378.4	376.2	373.0	368.6
97.5°	400.2	393.6	389.3	386.0	384.9	384.9	383.9	381.7	378.4	375.2
100°	404.5	398.0	393.6	390.4	389.3	388.2	387.1	384.9	381.7	377.3
102.5°	407.8	401.3	395.8	393.6	392.6	391.5	389.3	387.1	383.9	379.5
105°	410.0	404.5	400.2	395.8	394.7	393.6	391.5	389.3	384.9	381.7
107.5°	413.2	407.8	402.3	399.1	396.9	395.8	393.6	391.5	387.1	382.8
110°	414.3	410.0	404.5	401.3	399.1	398.0	394.7	391.5	387.1	383.9



TEST NUMBER: P232576

CATALOG NUMBER: 4SKB1-LD5-8-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	415.4	412.1	406.7	402.3	401.3	399.1	395.8	392.6	388.2	383.9
115°	415.4	412.1	407.8	403.4	402.3	400.2	396.9	392.6	388.2	383.9
117.5°	414.3	412.1	408.9	404.5	402.3	400.2	396.9	392.6	387.1	383.9
120°	411.0	411.0	407.8	404.5	402.3	400.2	395.8	391.5	387.1	382.8
122.5°	405.6	407.8	405.6	402.3	401.3	399.1	395.8	390.4	384.9	381.7
125°	398.0	403.4	402.3	400.2	399.1	396.9	393.6	389.3	383.9	379.5
127.5°	388.2	395.8	398.0	396.9	395.8	394.7	390.4	386.0	381.7	376.2
130°	376.2	386.0	390.4	390.4	390.4	389.3	387.1	382.8	377.3	373.0
132.5°	361.0	373.0	379.5	382.8	382.8	382.8	380.6	377.3	373.0	367.5
135°	343.6	358.8	367.5	371.9	373.0	373.0	373.0	370.8	366.5	362.1
137.5°	323.0	340.4	352.3	358.8	361.0	362.1	363.2	361.0	356.7	352.3
140°	292.5	317.5	332.7	341.4	343.6	346.9	349.1	346.9	343.6	340.4
142.5°	262.1	288.2	309.9	321.9	324.0	327.3	330.6	330.6	327.3	324.0
145°	229.4	255.5	278.4	298.0	301.2	304.5	308.8	311.0	307.7	304.5
147.5°	191.4	218.6	242.5	264.2	274.0	278.4	282.7	284.9	283.8	280.6
150°	151.2	180.5	203.3	225.1	234.9	247.9	253.4	254.5	253.4	250.1
152.5°	91.3	133.8	159.8	181.6	190.3	202.3	217.5	220.7	218.6	216.4
155°	51.1	69.6	97.9	130.5	140.3	151.2	169.6	177.2	176.2	176.2
157.5°	15.2	38.1	52.2	64.2	68.5	75.0	96.8	115.3	120.7	121.8
160°	1.1	1.1	13.0	26.1	32.6	39.1	50.0	56.5	57.6	58.7
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)