

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: P232578

Luminaire Tested: **4SKB1-LD5-8-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232578
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-L850-CD1-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (238) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8343.2 lumens
Efficiency: N/A
Efficacy: 127.9 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

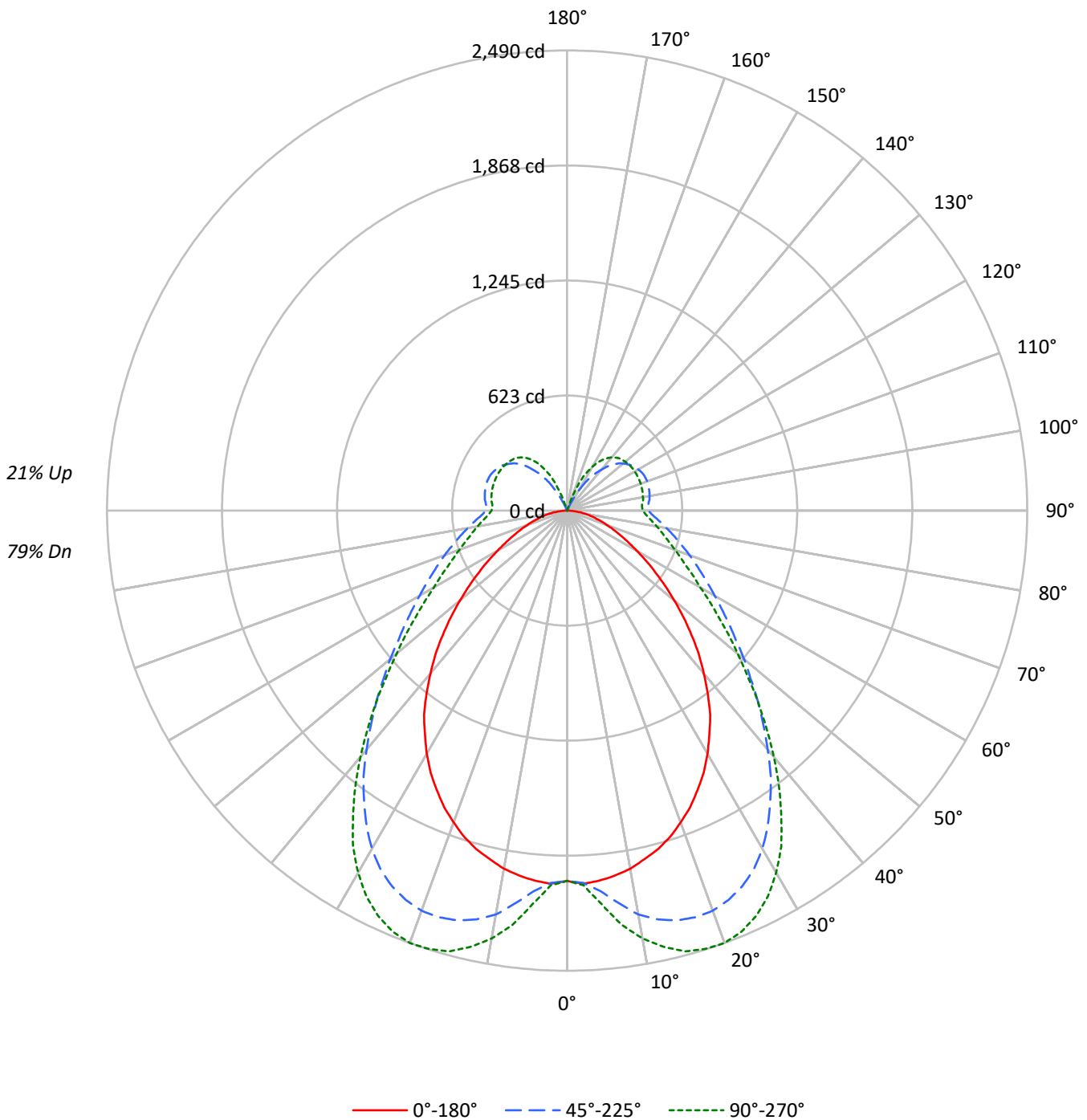
Input Watts (W): 65.23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21569	21569	21569
5°	21578	20735	20952
10°	21235	21014	21308
15°	20734	20714	20964
20°	20043	20007	20018
25°	19170	18907	18616
30°	18117	17438	16797
35°	16876	15603	14605
40°	15221	13668	12353
45°	13500	11836	10243
50°	11646	10240	8439
55°	9890	8900	7018
60°	8303	7888	5926
65°	7030	7099	5175
70°	6041	6514	4642
75°	5139	6016	4259
80°	4210	5655	4004
85°	2829	5434	3815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.4
10°-20°	636.0	7.6
20°-30°	996.7	11.9
30°-40°	1141.3	13.7
40°-50°	1051.2	12.6
50°-60°	862.7	10.3
60°-70°	689.7	8.3
70°-80°	554.0	6.6
80°-90°	440.7	5.3
90°-100°	393.9	4.7
100°-110°	383.7	4.6
110°-120°	347.7	4.2
120°-130°	287.4	3.4
130°-140°	206.1	2.5
140°-150°	114.5	1.4
150°-160°	34.5	0.4
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	1835.0	22.0
0°-40°	2976.3	35.7
0°-60°	4890.1	58.6
0°-90°	6574.6	78.8
90°-120°	1125.3	13.5
90°-150°	1733.4	20.8
90°-180°	1769.0	21.2
0°-180°	8343.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2010	2030	2066	2137	2137	190
15°	1897	2089	2295	2439	2469	533
25°	1669	1987	2243	2401	2420	767
35°	1350	1679	1916	2029	2019	838
45°	952	1267	1459	1497	1458	734
55°	582	911	1068	1040	997	525
65°	319	668	803	748	712	321
75°	157	509	618	571	548	169
85°	42	385	485	455	443	46
90°	2	342	439	419	409	3
95°	1	340	442	419	407	1
105°	1	332	458	436	421	1
115°	1	300	457	444	424	1
125°	1	234	426	440	419	1
135°	1	85	354	412	400	1
145°	1	4	217	332	336	1
155°	1	1	34	155	194	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°	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8
2.5°	2020.6	2012.2	2006.2	2012.2	2014.6	2017.0	2023.0	2021.8	2023.0	2020.6	2017.0
5°	2009.8	2002.6	2000.2	2012.2	2024.2	2030.2	2038.6	2047.0	2054.2	2063.8	2066.2
7.5°	1991.8	1988.2	1990.6	2012.2	2031.4	2045.8	2057.8	2079.4	2101.0	2122.6	2143.0
10°	1967.8	1965.4	1976.2	2008.6	2039.8	2060.2	2080.6	2120.2	2157.4	2191.0	2219.8
12.5°	1931.8	1937.8	1955.8	1999.0	2048.2	2077.0	2109.4	2158.6	2198.2	2236.6	2265.4
15°	1897.0	1900.6	1935.4	1987.0	2044.6	2089.0	2122.6	2185.0	2225.8	2265.4	2295.4
17.5°	1851.4	1859.8	1898.2	1971.4	2042.2	2081.8	2122.6	2171.8	2221.0	2266.6	2307.4
20°	1796.2	1814.2	1865.8	1946.2	2026.6	2066.2	2102.2	2162.2	2212.6	2257.0	2303.8
22.5°	1737.4	1757.8	1815.4	1911.4	1994.2	2033.8	2068.6	2134.6	2186.2	2230.6	2281.0
25°	1669.0	1695.4	1763.8	1867.0	1946.2	1987.0	2024.2	2091.4	2145.4	2189.8	2242.6
27.5°	1599.4	1629.4	1703.8	1808.2	1889.8	1928.2	1966.6	2033.8	2087.8	2132.2	2187.4
30°	1519.0	1551.4	1635.4	1736.2	1816.6	1858.6	1893.4	1959.4	2018.2	2057.8	2113.0
32.5°	1432.7	1469.9	1559.8	1657.0	1737.4	1777.0	1811.8	1875.4	1928.2	1970.2	2020.6
35°	1349.9	1379.9	1471.1	1565.8	1642.6	1678.6	1719.4	1780.6	1827.4	1870.6	1916.2
37.5°	1250.3	1286.3	1378.7	1468.7	1545.4	1583.8	1617.4	1673.8	1717.0	1757.8	1809.4
40°	1149.5	1189.1	1285.1	1365.5	1444.7	1474.7	1508.2	1559.8	1600.6	1651.0	1688.2
42.5°	1054.7	1091.9	1183.1	1264.7	1339.1	1369.1	1401.5	1455.5	1490.2	1533.4	1570.6
45°	951.5	989.9	1087.1	1163.9	1234.7	1267.1	1300.7	1345.1	1384.7	1419.5	1459.1
47.5°	853.1	898.7	992.3	1064.3	1136.3	1166.3	1195.1	1241.9	1281.5	1318.7	1346.3
50°	755.9	805.1	896.3	974.3	1042.7	1072.7	1101.5	1148.3	1189.1	1221.5	1250.3
52.5°	667.1	718.7	812.3	893.9	955.1	986.3	1015.1	1060.7	1101.5	1131.5	1150.7
55°	581.9	639.5	736.7	815.9	877.1	910.7	933.5	981.5	1022.3	1049.9	1067.9
57.5°	507.5	571.1	663.5	745.1	808.7	838.7	866.3	911.9	950.3	976.7	991.1
60°	434.4	505.1	601.1	680.3	745.1	773.9	803.9	849.5	885.5	909.5	922.7
62.5°	373.2	447.6	547.1	623.9	689.9	718.7	745.1	790.7	825.5	849.5	860.3
65°	319.2	397.2	497.9	574.7	638.3	668.3	695.9	742.7	775.1	797.9	802.7
67.5°	272.4	351.6	453.6	529.1	595.1	622.7	650.3	697.1	728.3	747.5	751.1
70°	230.4	310.8	412.8	488.4	553.1	583.1	610.7	652.7	685.1	700.7	705.5
72.5°	192.0	276.0	374.4	452.4	517.1	544.7	571.1	615.5	645.5	659.9	658.7
75°	157.2	243.6	342.0	418.8	480.0	508.7	535.1	578.3	608.3	620.3	617.9
77.5°	127.2	216.0	310.8	385.2	447.6	476.4	500.3	543.5	571.1	584.3	581.9
80°	96.0	186.0	280.8	354.0	416.4	442.8	469.2	509.9	537.5	550.7	544.7
82.5°	69.6	158.4	253.2	325.2	386.4	414.0	438.0	480.0	506.3	517.1	513.5
85°	42.0	130.8	223.2	297.6	358.8	385.2	411.6	451.2	477.6	488.4	484.8
87.5°	18.0	105.6	198.0	272.4	333.6	360.0	385.2	424.8	450.0	460.8	457.2
90°	2.4	88.8	182.4	255.6	315.6	342.0	367.2	406.8	432.0	442.8	439.2
92.5°	1.2	85.2	177.6	250.8	310.8	338.4	362.4	403.2	429.6	439.2	438.0
95°	1.2	79.2	175.2	250.8	312.0	339.6	364.8	405.6	432.0	442.8	441.6
97.5°	1.2	70.8	171.6	249.6	313.2	342.0	367.2	410.4	438.0	450.0	448.8
100°	1.2	57.6	164.4	246.0	310.8	340.8	366.0	410.4	439.2	452.4	452.4
102.5°	1.2	39.6	156.0	240.0	308.4	337.2	363.6	409.2	439.2	453.6	456.0
105°	1.2	24.0	145.2	232.8	302.4	332.4	360.0	406.8	438.0	454.8	458.4
107.5°	1.2	15.6	132.0	224.4	296.4	327.6	355.2	403.2	435.6	454.8	459.6
110°	1.2	13.2	115.2	214.8	288.0	319.2	348.0	398.4	432.0	453.6	460.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.2	10.8	88.8	201.6	278.4	310.8	340.8	390.0	427.2	448.8	459.6
115°	1.2	8.4	57.6	186.0	266.4	300.0	330.0	381.6	418.8	444.0	457.2
117.5°	1.2	7.2	37.2	168.0	253.2	286.8	318.0	370.8	410.4	436.8	452.4
120°	1.2	6.0	15.6	144.0	236.4	272.4	303.6	356.4	398.4	427.2	445.2
122.5°	1.2	4.8	12.0	108.0	217.2	254.4	286.8	342.0	384.0	416.4	435.6
125°	1.2	4.8	9.6	69.6	193.2	234.0	268.8	325.2	369.6	403.2	426.0
127.5°	1.2	3.6	8.4	46.8	164.4	210.0	247.2	306.0	351.6	386.4	411.6
130°	1.2	3.6	7.2	20.4	122.4	180.0	220.8	283.2	331.2	368.4	396.0
132.5°	1.2	2.4	6.0	8.4	75.6	139.2	187.2	254.4	307.2	346.8	378.0
135°	1.2	2.4	4.8	7.2	50.4	85.2	146.4	222.0	276.0	318.0	354.0
137.5°	1.2	2.4	3.6	6.0	20.4	56.4	90.0	186.0	242.4	286.8	324.0
140°	1.2	2.4	3.6	4.8	6.0	26.4	61.2	141.6	205.2	253.2	289.2
142.5°	1.2	2.4	3.6	3.6	4.8	6.0	30.0	82.8	164.4	216.0	255.6
145°	1.2	1.2	2.4	3.6	3.6	3.6	4.8	56.4	106.8	175.2	217.2
147.5°	1.2	1.2	2.4	2.4	3.6	3.6	3.6	22.8	66.0	123.6	175.2
150°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	33.6	67.2	118.8
152.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	3.6	38.4	66.0
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	33.6
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8
2.5°	2023.0	2033.8	2038.6	2043.4	2044.6	2045.8	2043.4	2042.2	2033.8	2029.0
5°	2083.0	2109.4	2120.2	2135.8	2137.0	2138.2	2145.4	2141.8	2143.0	2137.0
7.5°	2170.6	2209.0	2225.8	2246.2	2251.0	2257.0	2269.0	2270.2	2269.0	2260.6
10°	2252.2	2284.6	2309.8	2329.0	2336.2	2341.0	2355.4	2359.0	2356.6	2350.6
12.5°	2301.4	2343.4	2368.6	2396.2	2403.4	2410.6	2422.6	2428.6	2421.4	2417.8
15°	2343.4	2387.8	2408.2	2438.2	2439.4	2452.6	2473.0	2475.4	2471.8	2469.4
17.5°	2354.2	2399.8	2429.8	2456.2	2465.8	2474.2	2486.1	2495.7	2496.9	2487.3
20°	2351.8	2395.0	2431.0	2458.6	2469.4	2475.4	2490.9	2498.1	2494.5	2489.7
22.5°	2332.6	2375.8	2411.8	2435.8	2445.4	2455.0	2469.4	2475.4	2475.4	2465.8
25°	2293.0	2336.2	2367.4	2392.6	2401.0	2410.6	2425.0	2428.6	2426.2	2420.2
27.5°	2236.6	2275.0	2306.2	2327.8	2336.2	2344.6	2360.2	2363.8	2359.0	2353.0
30°	2153.8	2193.4	2224.6	2243.8	2251.0	2257.0	2266.6	2275.0	2267.8	2261.8
32.5°	2063.8	2099.8	2121.4	2139.4	2144.2	2149.0	2158.6	2162.2	2155.0	2156.2
35°	1958.2	1989.4	2014.6	2026.6	2029.0	2027.8	2032.6	2033.8	2035.0	2019.4
37.5°	1843.0	1870.6	1882.6	1899.4	1895.8	1901.8	1906.6	1901.8	1889.8	1883.8
40°	1719.4	1737.4	1757.8	1763.8	1760.2	1768.6	1766.2	1757.8	1744.6	1739.8
42.5°	1597.0	1617.4	1624.6	1629.4	1625.8	1627.0	1622.2	1619.8	1606.6	1595.8
45°	1480.7	1495.0	1498.6	1497.4	1497.4	1491.4	1485.5	1475.9	1463.9	1457.9
47.5°	1366.7	1376.3	1377.5	1371.5	1366.7	1359.5	1360.7	1343.9	1329.5	1322.3
50°	1261.1	1264.7	1261.1	1250.3	1247.9	1239.5	1234.7	1221.5	1208.3	1204.7
52.5°	1166.3	1165.1	1157.9	1145.9	1141.1	1132.7	1124.3	1112.3	1099.1	1099.1
55°	1073.9	1070.3	1060.7	1047.5	1040.3	1036.7	1025.9	1012.7	1003.1	997.1
57.5°	993.5	986.3	974.3	962.3	952.7	943.1	935.9	926.3	914.3	911.9
60°	921.5	907.1	896.3	883.1	875.9	867.5	857.9	850.7	841.1	831.5
62.5°	854.3	842.3	827.9	814.7	807.5	800.3	790.7	779.9	773.9	771.5
65°	795.5	783.5	766.7	753.5	747.5	740.3	733.1	721.1	717.5	711.5
67.5°	742.7	727.1	711.5	699.5	693.5	691.1	683.9	676.7	668.3	663.5
70°	693.5	677.9	663.5	655.1	647.9	645.5	639.5	629.9	623.9	620.3
72.5°	646.7	633.5	621.5	609.5	604.7	603.5	598.7	591.5	585.5	581.9
75°	607.1	593.9	581.9	575.9	571.1	567.5	565.1	557.9	554.3	548.3
77.5°	572.3	556.7	545.9	539.9	536.3	533.9	531.5	527.9	523.1	519.5
80°	535.1	523.1	514.7	508.7	506.3	503.9	501.5	499.1	495.6	492.0
82.5°	503.9	493.2	486.0	481.2	481.2	478.8	477.6	475.2	471.6	466.8
85°	474.0	464.4	458.4	456.0	454.8	453.6	452.4	450.0	446.4	442.8
87.5°	448.8	441.6	435.6	434.4	434.4	433.2	432.0	430.8	427.2	423.6
90°	432.0	424.8	421.2	420.0	418.8	418.8	418.8	416.4	412.8	409.2
92.5°	429.6	422.4	418.8	416.4	416.4	416.4	416.4	414.0	410.4	405.6
95°	433.2	426.0	422.4	420.0	418.8	418.8	417.6	415.2	411.6	406.8
97.5°	441.6	434.4	429.6	426.0	424.8	424.8	423.6	421.2	417.6	414.0
100°	446.4	439.2	434.4	430.8	429.6	428.4	427.2	424.8	421.2	416.4
102.5°	450.0	442.8	436.8	434.4	433.2	432.0	429.6	427.2	423.6	418.8
105°	452.4	446.4	441.6	436.8	435.6	434.4	432.0	429.6	424.8	421.2
107.5°	456.0	450.0	444.0	440.4	438.0	436.8	434.4	432.0	427.2	422.4
110°	457.2	452.4	446.4	442.8	440.4	439.2	435.6	432.0	427.2	423.6



TEST NUMBER: P232578

CATALOG NUMBER: 4SKB1-LD5-8-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	458.4	454.8	448.8	444.0	442.8	440.4	436.8	433.2	428.4	423.6
115°	458.4	454.8	450.0	445.2	444.0	441.6	438.0	433.2	428.4	423.6
117.5°	457.2	454.8	451.2	446.4	444.0	441.6	438.0	433.2	427.2	423.6
120°	453.6	453.6	450.0	446.4	444.0	441.6	436.8	432.0	427.2	422.4
122.5°	447.6	450.0	447.6	444.0	442.8	440.4	436.8	430.8	424.8	421.2
125°	439.2	445.2	444.0	441.6	440.4	438.0	434.4	429.6	423.6	418.8
127.5°	428.4	436.8	439.2	438.0	436.8	435.6	430.8	426.0	421.2	415.2
130°	415.2	426.0	430.8	430.8	430.8	429.6	427.2	422.4	416.4	411.6
132.5°	398.4	411.6	418.8	422.4	422.4	422.4	420.0	416.4	411.6	405.6
135°	379.2	396.0	405.6	410.4	411.6	411.6	411.6	409.2	404.4	399.6
137.5°	356.4	375.6	388.8	396.0	398.4	399.6	400.8	398.4	393.6	388.8
140°	322.8	350.4	367.2	376.8	379.2	382.8	385.2	382.8	379.2	375.6
142.5°	289.2	318.0	342.0	355.2	357.6	361.2	364.8	364.8	361.2	357.6
145°	253.2	282.0	307.2	328.8	332.4	336.0	340.8	343.2	339.6	336.0
147.5°	211.2	241.2	267.6	291.6	302.4	307.2	312.0	314.4	313.2	309.6
150°	166.8	199.2	224.4	248.4	259.2	273.6	279.6	280.8	279.6	276.0
152.5°	100.8	147.6	176.4	200.4	210.0	223.2	240.0	243.6	241.2	238.8
155°	56.4	76.8	108.0	144.0	154.8	166.8	187.2	195.6	194.4	194.4
157.5°	16.8	42.0	57.6	70.8	75.6	82.8	106.8	127.2	133.2	134.4
160°	1.2	1.2	14.4	28.8	36.0	43.2	55.2	62.4	63.6	64.8
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)