

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: P232575

Luminaire Tested: **4SKB1-LD5-7-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232575
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-LD5-7-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: 7173.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

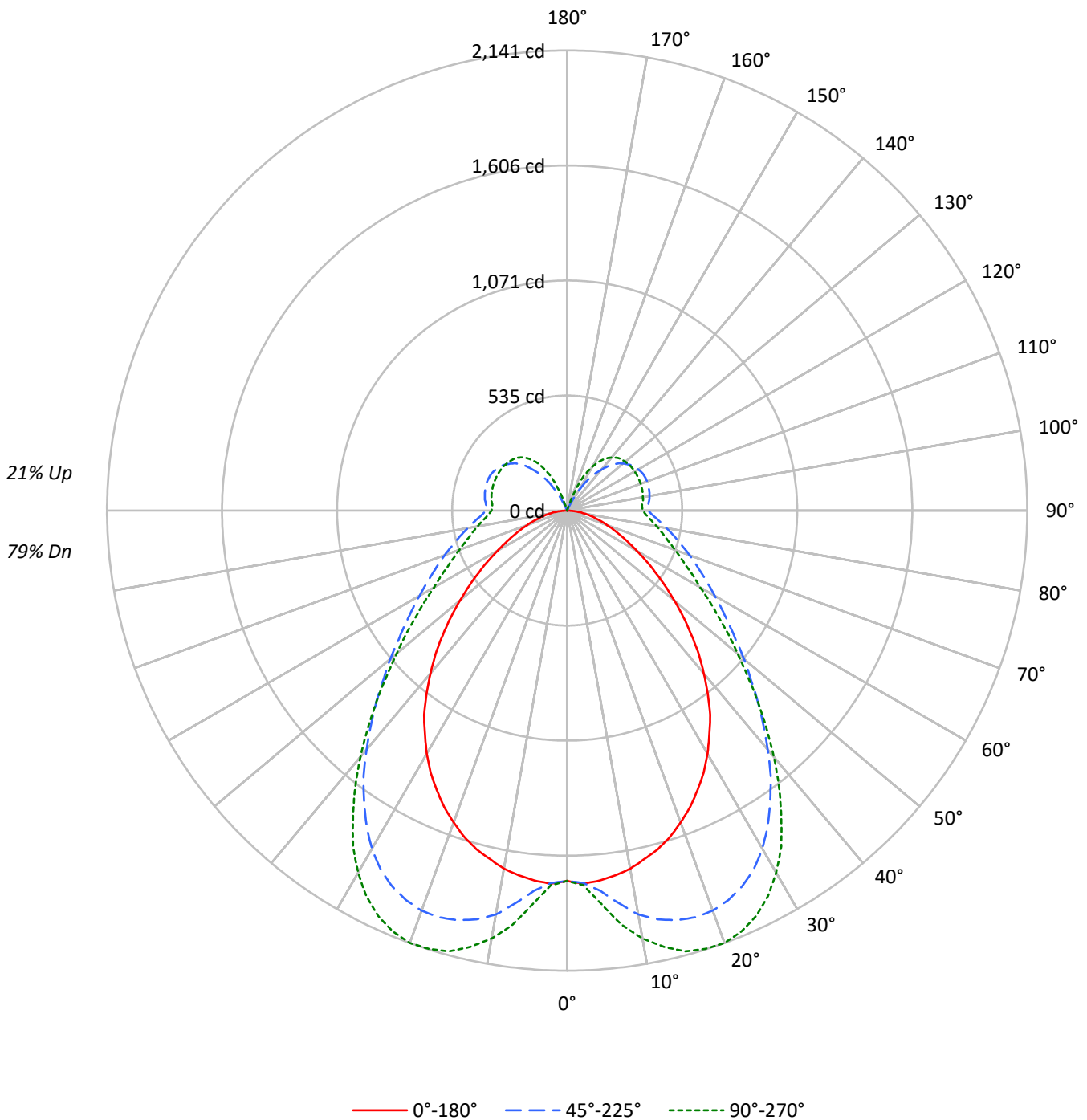
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18544	18544	18544
5°	18552	17827	18013
10°	18257	18067	18320
15°	17827	17809	18024
20°	17232	17201	17211
25°	16483	16255	16005
30°	15577	14993	14442
35°	14510	13415	12556
40°	13086	11752	10621
45°	11607	10176	8806
50°	10013	8804	7255
55°	8503	7651	6034
60°	7137	6782	5095
65°	6044	6103	4449
70°	5194	5601	3991
75°	4417	5173	3662
80°	3618	4862	3442
85°	2432	4672	3280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.4
10°-20°	546.8	7.6
20°-30°	856.9	11.9
30°-40°	981.2	13.7
40°-50°	903.7	12.6
50°-60°	741.7	10.3
60°-70°	593.0	8.3
70°-80°	476.4	6.6
80°-90°	378.9	5.3
90°-100°	338.7	4.7
100°-110°	329.8	4.6
110°-120°	298.9	4.2
120°-130°	247.1	3.4
130°-140°	177.2	2.5
140°-150°	98.5	1.4
150°-160°	29.6	0.4
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	1577.6	22.0
0°-40°	2558.9	35.7
0°-60°	4204.3	58.6
0°-90°	5652.6	78.8
90°-120°	967.4	13.5
90°-150°	1490.1	20.8
90°-180°	1520.0	21.2
0°-180°	7173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1728	1746	1776	1837	1837	164
15°	1631	1796	1974	2097	2123	459
25°	1435	1708	1928	2064	2081	660
35°	1161	1443	1648	1744	1736	721
45°	818	1089	1254	1288	1253	631
55°	500	783	918	894	857	451
65°	274	575	690	643	612	276
75°	135	437	531	491	471	145
85°	36	331	417	391	381	39
90°	2	294	378	360	352	3
95°	1	292	380	360	350	1
105°	1	286	394	374	362	1
115°	1	258	393	382	364	1
125°	1	201	366	379	360	1
135°	1	73	304	354	344	1
145°	1	3	187	286	289	1
155°	1	1	29	133	167	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°	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8
2.5°	1737.2	1730.0	1724.9	1730.0	1732.1	1734.1	1739.3	1738.3	1739.3	1737.2	1734.1
5°	1727.9	1721.8	1719.7	1730.0	1740.3	1745.5	1752.7	1759.9	1766.1	1774.4	1776.4
7.5°	1712.5	1709.4	1711.4	1730.0	1746.5	1758.9	1769.2	1787.8	1806.4	1824.9	1842.5
10°	1691.8	1689.8	1699.1	1726.9	1753.7	1771.3	1788.8	1822.9	1854.8	1883.7	1908.5
12.5°	1660.9	1666.1	1681.5	1718.7	1761.0	1785.7	1813.6	1855.9	1889.9	1922.9	1947.7
15°	1631.0	1634.1	1664.0	1708.3	1757.9	1796.0	1824.9	1878.6	1913.6	1947.7	1973.5
17.5°	1591.8	1599.0	1632.0	1694.9	1755.8	1789.8	1824.9	1867.2	1909.5	1948.7	1983.8
20°	1544.3	1559.8	1604.2	1673.3	1742.4	1776.4	1807.4	1859.0	1902.3	1940.5	1980.7
22.5°	1493.8	1511.3	1560.8	1643.4	1714.5	1748.6	1778.5	1835.2	1879.6	1917.8	1961.1
25°	1435.0	1457.7	1516.5	1605.2	1673.3	1708.3	1740.3	1798.1	1844.5	1882.7	1928.1
27.5°	1375.1	1400.9	1464.9	1554.6	1624.8	1657.8	1690.8	1748.6	1795.0	1833.2	1880.6
30°	1306.0	1333.9	1406.1	1492.7	1561.9	1598.0	1627.9	1684.6	1735.2	1769.2	1816.7
32.5°	1231.7	1263.7	1341.1	1424.7	1493.8	1527.8	1557.7	1612.4	1657.8	1693.9	1737.2
35°	1160.6	1186.4	1264.8	1346.3	1412.3	1443.2	1478.3	1530.9	1571.1	1608.3	1647.5
37.5°	1074.9	1105.9	1185.3	1262.7	1328.7	1361.7	1390.6	1439.1	1476.2	1511.3	1555.7
40°	988.3	1022.3	1104.9	1174.0	1242.1	1267.9	1296.7	1341.1	1376.2	1419.5	1451.5
42.5°	906.8	938.8	1017.2	1087.3	1151.3	1177.1	1204.9	1251.3	1281.3	1318.4	1350.4
45°	818.1	851.1	934.6	1000.7	1061.5	1089.4	1118.3	1156.4	1190.5	1220.4	1254.4
47.5°	733.5	772.7	853.1	915.0	976.9	1002.7	1027.5	1067.7	1101.8	1133.7	1157.5
50°	649.9	692.2	770.6	837.7	896.5	922.3	947.0	987.3	1022.3	1050.2	1074.9
52.5°	573.6	617.9	698.4	768.6	821.2	848.0	872.7	911.9	947.0	972.8	989.3
55°	500.3	549.8	633.4	701.5	754.1	783.0	802.6	843.9	878.9	902.7	918.1
57.5°	436.4	491.0	570.5	640.6	695.3	721.1	744.8	784.0	817.0	839.7	852.1
60°	373.4	434.3	516.8	584.9	640.6	665.4	691.2	730.4	761.3	782.0	793.3
62.5°	320.8	384.8	470.4	536.4	593.2	617.9	640.6	679.8	709.7	730.4	739.7
65°	274.4	341.5	428.1	494.1	548.8	574.6	598.3	638.6	666.4	686.0	690.1
67.5°	234.2	302.3	389.9	454.9	511.7	535.4	559.1	599.4	626.2	642.7	645.8
70°	198.1	267.2	354.9	419.9	475.6	501.4	525.1	561.2	589.0	602.5	606.6
72.5°	165.1	237.3	321.9	388.9	444.6	468.4	491.0	529.2	555.0	567.4	566.4
75°	135.1	209.4	294.0	360.0	412.6	437.4	460.1	497.2	523.0	533.3	531.3
77.5°	109.4	185.7	267.2	331.1	384.8	409.5	430.2	467.3	491.0	502.4	500.3
80°	82.5	159.9	241.4	304.3	358.0	380.7	403.4	438.4	462.2	473.5	468.4
82.5°	59.8	136.2	217.7	279.6	332.2	355.9	376.5	412.6	435.3	444.6	441.5
85°	36.1	112.4	191.9	255.8	308.5	331.1	353.8	387.9	410.6	419.9	416.8
87.5°	15.5	90.8	170.2	234.2	286.8	309.5	331.1	365.2	386.9	396.1	393.0
90°	2.1	76.3	156.8	219.7	271.3	294.0	315.7	349.7	371.4	380.7	377.6
92.5°	1.0	73.2	152.7	215.6	267.2	290.9	311.5	346.6	369.3	377.6	376.5
95°	1.0	68.1	150.6	215.6	268.2	291.9	313.6	348.7	371.4	380.7	379.6
97.5°	1.0	60.9	147.5	214.6	269.3	294.0	315.7	352.8	376.5	386.9	385.8
100°	1.0	49.5	141.3	211.5	267.2	293.0	314.6	352.8	377.6	388.9	388.9
102.5°	1.0	34.0	134.1	206.3	265.1	289.9	312.6	351.8	377.6	389.9	392.0
105°	1.0	20.6	124.8	200.1	260.0	285.8	309.5	349.7	376.5	391.0	394.1
107.5°	1.0	13.4	113.5	192.9	254.8	281.6	305.4	346.6	374.5	391.0	395.1
110°	1.0	11.3	99.0	184.7	247.6	274.4	299.2	342.5	371.4	389.9	396.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	9.3	76.3	173.3	239.3	267.2	293.0	335.3	367.3	385.8	395.1
115°	1.0	7.2	49.5	159.9	229.0	257.9	283.7	328.1	360.0	381.7	393.0
117.5°	1.0	6.2	32.0	144.4	217.7	246.6	273.4	318.8	352.8	375.5	388.9
120°	1.0	5.2	13.4	123.8	203.2	234.2	261.0	306.4	342.5	367.3	382.7
122.5°	1.0	4.1	10.3	92.8	186.7	218.7	246.6	294.0	330.1	358.0	374.5
125°	1.0	4.1	8.3	59.8	166.1	201.2	231.1	279.6	317.7	346.6	366.2
127.5°	1.0	3.1	7.2	40.2	141.3	180.5	212.5	263.1	302.3	332.2	353.8
130°	1.0	3.1	6.2	17.5	105.2	154.7	189.8	243.5	284.7	316.7	340.4
132.5°	1.0	2.1	5.2	7.2	65.0	119.7	160.9	218.7	264.1	298.1	325.0
135°	1.0	2.1	4.1	6.2	43.3	73.2	125.9	190.8	237.3	273.4	304.3
137.5°	1.0	2.1	3.1	5.2	17.5	48.5	77.4	159.9	208.4	246.6	278.5
140°	1.0	2.1	3.1	4.1	5.2	22.7	52.6	121.7	176.4	217.7	248.6
142.5°	1.0	2.1	3.1	3.1	4.1	5.2	25.8	71.2	141.3	185.7	219.7
145°	1.0	1.0	2.1	3.1	3.1	3.1	4.1	48.5	91.8	150.6	186.7
147.5°	1.0	1.0	2.1	2.1	3.1	3.1	3.1	19.6	56.7	106.3	150.6
150°	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	28.9	57.8	102.1
152.5°	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	33.0	56.7
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1	28.9
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8
2.5°	1739.3	1748.6	1752.7	1756.8	1757.9	1758.9	1756.8	1755.8	1748.6	1744.5
5°	1790.9	1813.6	1822.9	1836.3	1837.3	1838.3	1844.5	1841.4	1842.5	1837.3
7.5°	1866.2	1899.2	1913.6	1931.2	1935.3	1940.5	1950.8	1951.8	1950.8	1943.6
10°	1936.3	1964.2	1985.9	2002.4	2008.5	2012.7	2025.1	2028.1	2026.1	2020.9
12.5°	1978.6	2014.7	2036.4	2060.1	2066.3	2072.5	2082.8	2088.0	2081.8	2078.7
15°	2014.7	2052.9	2070.4	2096.2	2097.3	2108.6	2126.2	2128.2	2125.1	2123.1
17.5°	2024.0	2063.2	2089.0	2111.7	2120.0	2127.2	2137.5	2145.8	2146.8	2138.5
20°	2022.0	2059.1	2090.0	2113.8	2123.1	2128.2	2141.6	2147.8	2144.7	2140.6
22.5°	2005.5	2042.6	2073.5	2094.2	2102.4	2110.7	2123.1	2128.2	2128.2	2120.0
25°	1971.4	2008.5	2035.4	2057.0	2064.3	2072.5	2084.9	2088.0	2085.9	2080.8
27.5°	1922.9	1955.9	1982.8	2001.3	2008.5	2015.8	2029.2	2032.3	2028.1	2023.0
30°	1851.7	1885.8	1912.6	1929.1	1935.3	1940.5	1948.7	1955.9	1949.7	1944.6
32.5°	1774.4	1805.3	1823.9	1839.4	1843.5	1847.6	1855.9	1859.0	1852.8	1853.8
35°	1683.6	1710.4	1732.1	1742.4	1744.5	1743.4	1747.5	1748.6	1749.6	1736.2
37.5°	1584.6	1608.3	1618.6	1633.0	1629.9	1635.1	1639.2	1635.1	1624.8	1619.6
40°	1478.3	1493.8	1511.3	1516.5	1513.4	1520.6	1518.5	1511.3	1500.0	1495.8
42.5°	1373.1	1390.6	1396.8	1400.9	1397.8	1398.9	1394.7	1392.7	1381.3	1372.0
45°	1273.0	1285.4	1288.5	1287.5	1287.5	1282.3	1277.1	1268.9	1258.6	1253.4
47.5°	1175.0	1183.3	1184.3	1179.1	1175.0	1168.8	1169.8	1155.4	1143.0	1136.8
50°	1084.2	1087.3	1084.2	1074.9	1072.9	1065.7	1061.5	1050.2	1038.8	1035.7
52.5°	1002.7	1001.7	995.5	985.2	981.1	973.8	966.6	956.3	945.0	945.0
55°	923.3	920.2	911.9	900.6	894.4	891.3	882.0	870.7	862.4	857.3
57.5°	854.2	848.0	837.7	827.4	819.1	810.8	804.7	796.4	786.1	784.0
60°	792.3	779.9	770.6	759.3	753.1	745.9	737.6	731.4	723.2	714.9
62.5°	734.5	724.2	711.8	700.5	694.3	688.1	679.8	670.5	665.4	663.3
65°	684.0	673.6	659.2	647.9	642.7	636.5	630.3	620.0	616.9	611.7
67.5°	638.6	625.2	611.7	601.4	596.3	594.2	588.0	581.8	574.6	570.5
70°	596.3	582.9	570.5	563.3	557.1	555.0	549.8	541.6	536.4	533.3
72.5°	556.0	544.7	534.4	524.1	519.9	518.9	514.8	508.6	503.4	500.3
75°	522.0	510.6	500.3	495.2	491.0	488.0	485.9	479.7	476.6	471.4
77.5°	492.1	478.7	469.4	464.2	461.1	459.1	457.0	453.9	449.8	446.7
80°	460.1	449.8	442.6	437.4	435.3	433.3	431.2	429.2	426.1	423.0
82.5°	433.3	424.0	417.8	413.7	413.7	411.6	410.6	408.5	405.4	401.3
85°	407.5	399.2	394.1	392.0	391.0	389.9	388.9	386.9	383.8	380.7
87.5°	385.8	379.6	374.5	373.4	373.4	372.4	371.4	370.3	367.3	364.2
90°	371.4	365.2	362.1	361.1	360.0	360.0	360.0	358.0	354.9	351.8
92.5°	369.3	363.1	360.0	358.0	358.0	358.0	358.0	355.9	352.8	348.7
95°	372.4	366.2	363.1	361.1	360.0	360.0	359.0	356.9	353.8	349.7
97.5°	379.6	373.4	369.3	366.2	365.2	365.2	364.2	362.1	359.0	355.9
100°	383.8	377.6	373.4	370.3	369.3	368.3	367.3	365.2	362.1	358.0
102.5°	386.9	380.7	375.5	373.4	372.4	371.4	369.3	367.3	364.2	360.0
105°	388.9	383.8	379.6	375.5	374.5	373.4	371.4	369.3	365.2	362.1
107.5°	392.0	386.9	381.7	378.6	376.5	375.5	373.4	371.4	367.3	363.1
110°	393.0	388.9	383.8	380.7	378.6	377.6	374.5	371.4	367.3	364.2



TEST NUMBER: P232575

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	394.1	391.0	385.8	381.7	380.7	378.6	375.5	372.4	368.3	364.2
115°	394.1	391.0	386.9	382.7	381.7	379.6	376.5	372.4	368.3	364.2
117.5°	393.0	391.0	387.9	383.8	381.7	379.6	376.5	372.4	367.3	364.2
120°	389.9	389.9	386.9	383.8	381.7	379.6	375.5	371.4	367.3	363.1
122.5°	384.8	386.9	384.8	381.7	380.7	378.6	375.5	370.3	365.2	362.1
125°	377.6	382.7	381.7	379.6	378.6	376.5	373.4	369.3	364.2	360.0
127.5°	368.3	375.5	377.6	376.5	375.5	374.5	370.3	366.2	362.1	356.9
130°	356.9	366.2	370.3	370.3	370.3	369.3	367.3	363.1	358.0	353.8
132.5°	342.5	353.8	360.0	363.1	363.1	363.1	361.1	358.0	353.8	348.7
135°	326.0	340.4	348.7	352.8	353.8	353.8	353.8	351.8	347.7	343.5
137.5°	306.4	322.9	334.2	340.4	342.5	343.5	344.6	342.5	338.4	334.2
140°	277.5	301.2	315.7	323.9	326.0	329.1	331.1	329.1	326.0	322.9
142.5°	248.6	273.4	294.0	305.4	307.4	310.5	313.6	313.6	310.5	307.4
145°	217.7	242.4	264.1	282.7	285.8	288.9	293.0	295.0	291.9	288.9
147.5°	181.6	207.4	230.0	250.7	260.0	264.1	268.2	270.3	269.3	266.2
150°	143.4	171.2	192.9	213.5	222.8	235.2	240.4	241.4	240.4	237.3
152.5°	86.7	126.9	151.6	172.3	180.5	191.9	206.3	209.4	207.4	205.3
155°	48.5	66.0	92.8	123.8	133.1	143.4	160.9	168.2	167.1	167.1
157.5°	14.4	36.1	49.5	60.9	65.0	71.2	91.8	109.4	114.5	115.5
160°	1.0	1.0	12.4	24.8	30.9	37.1	47.5	53.6	54.7	55.7
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)