

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: P232572

Luminaire Tested: **4SKB1-LD5-6-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232572  
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-LD5-6-W-UNV-L850-CD1-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6244.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

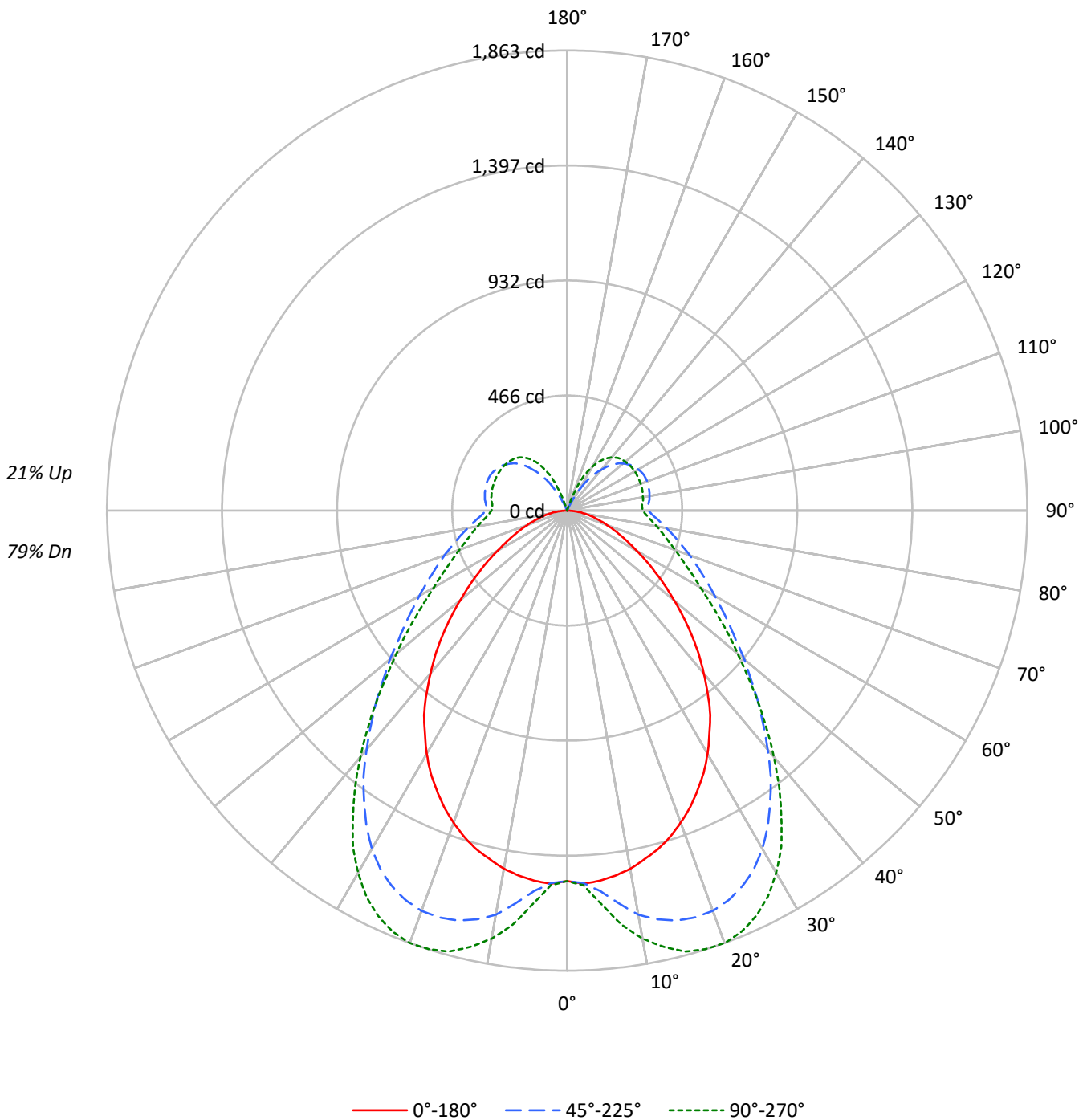
Input Watts (W): 47.16  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16143	16143	16143
5°	16150	15519	15680
10°	15892	15727	15947
15°	15517	15503	15690
20°	15000	14973	14982
25°	14347	14150	13932
30°	13560	13051	12571
35°	12631	11677	10930
40°	11391	10230	9245
45°	10103	8858	7666
50°	8716	7663	6316
55°	7402	6660	5252
60°	6214	5904	4435
65°	5262	5314	3873
70°	4520	4875	3475
75°	3845	4503	3188
80°	3149	4232	2997
85°	2115	4066	2855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.4	2.4
10°-20°	476.0	7.6
20°-30°	745.9	11.9
30°-40°	854.2	13.7
40°-50°	786.7	12.6
50°-60°	645.6	10.3
60°-70°	516.2	8.3
70°-80°	414.7	6.6
80°-90°	329.8	5.3
90°-100°	294.8	4.7
100°-110°	287.1	4.6
110°-120°	260.2	4.2
120°-130°	215.1	3.4
130°-140°	154.3	2.5
140°-150°	85.7	1.4
150°-160°	25.8	0.4
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1373.3	22.0
0°-40°	2227.5	35.7
0°-60°	3659.8	58.6
0°-90°	4920.5	78.8
90°-120°	842.1	13.5
90°-150°	1297.2	20.8
90°-180°	1324.0	21.2
0°-180°	6244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1504	1519	1546	1599	1599	143
15°	1420	1563	1718	1826	1848	399
25°	1249	1487	1678	1797	1811	574
35°	1010	1256	1434	1518	1511	627
45°	712	948	1092	1121	1091	549
55°	436	682	799	779	746	393
65°	239	500	601	560	532	240
75°	118	381	462	427	410	126
85°	31	288	363	340	331	34
90°	2	256	329	313	306	2
95°	1	254	330	313	304	1
105°	1	249	343	326	315	1
115°	1	224	342	332	317	1
125°	1	175	319	330	313	1
135°	1	64	265	308	299	1
145°	1	3	162	249	251	1
155°	1	1	25	116	146	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°	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7
2.5°	1512.2	1506.0	1501.5	1506.0	1507.7	1509.5	1514.0	1513.1	1514.0	1512.2	1509.5
5°	1504.2	1498.8	1497.0	1506.0	1514.9	1519.4	1525.7	1532.0	1537.4	1544.6	1546.4
7.5°	1490.7	1488.0	1489.8	1506.0	1520.3	1531.1	1540.1	1556.2	1572.4	1588.6	1603.8
10°	1472.7	1470.9	1479.0	1503.3	1526.6	1541.9	1557.1	1586.8	1614.6	1639.8	1661.3
12.5°	1445.8	1450.3	1463.7	1496.1	1532.9	1554.4	1578.7	1615.5	1645.1	1673.9	1695.4
15°	1419.7	1422.4	1448.5	1487.1	1530.2	1563.4	1588.6	1635.3	1665.8	1695.4	1717.9
17.5°	1385.6	1391.9	1420.6	1475.4	1528.4	1558.0	1588.6	1625.4	1662.2	1696.3	1726.9
20°	1344.3	1357.8	1396.4	1456.6	1516.7	1546.4	1573.3	1618.2	1655.9	1689.1	1724.2
22.5°	1300.3	1315.6	1358.7	1430.5	1492.5	1522.1	1548.2	1597.5	1636.2	1669.4	1707.1
25°	1249.1	1268.9	1320.1	1397.3	1456.6	1487.1	1514.9	1565.2	1605.6	1638.9	1678.4
27.5°	1197.0	1219.5	1275.2	1353.3	1414.4	1443.1	1471.8	1522.1	1562.5	1595.8	1637.1
30°	1136.9	1161.1	1224.0	1299.4	1359.6	1391.0	1417.0	1466.4	1510.4	1540.1	1581.4
32.5°	1072.2	1100.1	1167.4	1240.1	1300.3	1329.9	1356.0	1403.6	1443.1	1474.5	1512.2
35°	1010.3	1032.7	1101.0	1171.9	1229.4	1256.3	1286.8	1332.6	1367.7	1400.0	1434.1
37.5°	935.7	962.7	1031.8	1099.2	1156.6	1185.4	1210.5	1252.7	1285.0	1315.6	1354.2
40°	860.3	889.9	961.8	1021.9	1081.2	1103.6	1128.8	1167.4	1197.9	1235.7	1263.5
42.5°	789.3	817.2	885.4	946.5	1002.2	1024.6	1048.9	1089.3	1115.3	1147.6	1175.5
45°	712.1	740.9	813.6	871.1	924.0	948.3	973.4	1006.7	1036.3	1062.3	1092.0
47.5°	638.5	672.6	742.6	796.5	850.4	872.9	894.4	929.4	959.1	986.9	1007.6
50°	565.7	602.6	670.8	729.2	780.4	802.8	824.4	859.4	889.9	914.2	935.7
52.5°	499.3	537.9	607.9	669.0	714.8	738.2	759.7	793.8	824.4	846.8	861.2
55°	435.5	478.6	551.4	610.6	656.4	681.6	698.6	734.6	765.1	785.8	799.2
57.5°	379.9	427.4	496.6	557.7	605.3	627.7	648.4	682.5	711.2	731.0	741.8
60°	325.1	378.1	449.9	509.2	557.7	579.2	601.7	635.8	662.7	680.7	690.6
62.5°	279.3	335.0	409.5	467.0	516.4	537.9	557.7	591.8	617.8	635.8	643.9
65°	238.9	297.2	372.7	430.1	477.7	500.2	520.8	555.9	580.1	597.2	600.8
67.5°	203.8	263.1	339.4	396.0	445.4	466.1	486.7	521.7	545.1	559.5	562.2
70°	172.4	232.6	308.9	365.5	414.0	436.4	457.1	488.5	512.8	524.4	528.0
72.5°	143.7	206.5	280.2	338.5	387.0	407.7	427.4	460.7	483.1	493.9	493.0
75°	117.6	182.3	255.9	313.4	359.2	380.8	400.5	432.8	455.3	464.3	462.5
77.5°	95.2	161.6	232.6	288.3	335.0	356.5	374.5	406.8	427.4	437.3	435.5
80°	71.8	139.2	210.1	264.9	311.6	331.4	351.1	381.7	402.3	412.2	407.7
82.5°	52.1	118.5	189.5	243.4	289.2	309.8	327.8	359.2	379.0	387.0	384.3
85°	31.4	97.9	167.0	222.7	268.5	288.3	308.0	337.6	357.4	365.5	362.8
87.5°	13.5	79.0	148.2	203.8	249.6	269.4	288.3	317.9	336.8	344.8	342.1
90°	1.8	66.5	136.5	191.3	236.2	255.9	274.8	304.4	323.3	331.4	328.7
92.5°	0.9	63.8	132.9	187.7	232.6	253.2	271.2	301.7	321.5	328.7	327.8
95°	0.9	59.3	131.1	187.7	233.5	254.1	273.0	303.5	323.3	331.4	330.5
97.5°	0.9	53.0	128.4	186.8	234.4	255.9	274.8	307.1	327.8	336.8	335.9
100°	0.9	43.1	123.0	184.1	232.6	255.0	273.9	307.1	328.7	338.5	338.5
102.5°	0.9	29.6	116.7	179.6	230.8	252.3	272.1	306.2	328.7	339.4	341.2
105°	0.9	18.0	108.7	174.2	226.3	248.7	269.4	304.4	327.8	340.3	343.0
107.5°	0.9	11.7	98.8	167.9	221.8	245.2	265.8	301.7	326.0	340.3	343.9
110°	0.9	9.9	86.2	160.7	215.5	238.9	260.4	298.1	323.3	339.4	344.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	8.1	66.5	150.9	208.3	232.6	255.0	291.9	319.7	335.9	343.9
115°	0.9	6.3	43.1	139.2	199.4	224.5	247.0	285.6	313.4	332.3	342.1
117.5°	0.9	5.4	27.8	125.7	189.5	214.6	238.0	277.5	307.1	326.9	338.5
120°	0.9	4.5	11.7	107.8	176.9	203.8	227.2	266.7	298.1	319.7	333.2
122.5°	0.9	3.6	9.0	80.8	162.5	190.4	214.6	255.9	287.4	311.6	326.0
125°	0.9	3.6	7.2	52.1	144.6	175.1	201.2	243.4	276.6	301.7	318.8
127.5°	0.9	2.7	6.3	35.0	123.0	157.2	185.0	229.0	263.1	289.2	308.0
130°	0.9	2.7	5.4	15.3	91.6	134.7	165.2	211.9	247.8	275.7	296.3
132.5°	0.9	1.8	4.5	6.3	56.6	104.2	140.1	190.4	229.9	259.5	282.9
135°	0.9	1.8	3.6	5.4	37.7	63.8	109.6	166.1	206.5	238.0	264.9
137.5°	0.9	1.8	2.7	4.5	15.3	42.2	67.4	139.2	181.4	214.6	242.5
140°	0.9	1.8	2.7	3.6	4.5	19.8	45.8	106.0	153.6	189.5	216.4
142.5°	0.9	1.8	2.7	2.7	3.6	4.5	22.5	62.0	123.0	161.6	191.3
145°	0.9	0.9	1.8	2.7	2.7	2.7	3.6	42.2	79.9	131.1	162.5
147.5°	0.9	0.9	1.8	1.8	2.7	2.7	2.7	17.1	49.4	92.5	131.1
150°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	25.1	50.3	88.9
152.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	2.7	28.7	49.4
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.7	25.1
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7	1499.7
2.5°	1514.0	1522.1	1525.7	1529.3	1530.2	1531.1	1529.3	1528.4	1522.1	1518.5
5°	1558.9	1578.7	1586.8	1598.4	1599.3	1600.2	1605.6	1602.9	1603.8	1599.3
7.5°	1624.5	1653.2	1665.8	1681.1	1684.7	1689.1	1698.1	1699.0	1698.1	1691.8
10°	1685.6	1709.8	1728.7	1743.0	1748.4	1752.0	1762.8	1765.5	1763.7	1759.2
12.5°	1722.4	1753.8	1772.7	1793.3	1798.7	1804.1	1813.1	1817.6	1812.2	1809.5
15°	1753.8	1787.0	1802.3	1824.7	1825.6	1835.5	1850.8	1852.6	1849.9	1848.1
17.5°	1761.9	1796.0	1818.5	1838.2	1845.4	1851.7	1860.7	1867.8	1868.7	1861.6
20°	1760.1	1792.4	1819.4	1840.0	1848.1	1852.6	1864.3	1869.6	1866.9	1863.4
22.5°	1745.7	1778.0	1805.0	1822.9	1830.1	1837.3	1848.1	1852.6	1852.6	1845.4
25°	1716.1	1748.4	1771.8	1790.6	1796.9	1804.1	1814.9	1817.6	1815.8	1811.3
27.5°	1673.9	1702.6	1726.0	1742.1	1748.4	1754.7	1766.4	1769.1	1765.5	1761.0
30°	1611.9	1641.6	1664.9	1679.3	1684.7	1689.1	1696.3	1702.6	1697.2	1692.7
32.5°	1544.6	1571.5	1587.7	1601.1	1604.7	1608.3	1615.5	1618.2	1612.8	1613.7
35°	1465.5	1488.9	1507.7	1516.7	1518.5	1517.6	1521.2	1522.1	1523.0	1511.3
37.5°	1379.3	1400.0	1409.0	1421.5	1418.8	1423.3	1426.9	1423.3	1414.4	1409.9
40°	1286.8	1300.3	1315.6	1320.1	1317.4	1323.7	1321.9	1315.6	1305.7	1302.1
42.5°	1195.2	1210.5	1215.9	1219.5	1216.8	1217.7	1214.1	1212.3	1202.4	1194.3
45°	1108.1	1118.9	1121.6	1120.7	1120.7	1116.2	1111.7	1104.5	1095.6	1091.1
47.5°	1022.8	1030.0	1030.9	1026.4	1022.8	1017.4	1018.3	1005.8	995.0	989.6
50°	943.8	946.5	943.8	935.7	933.9	927.6	924.0	914.2	904.3	901.6
52.5°	872.9	872.0	866.6	857.6	854.0	847.7	841.4	832.4	822.6	822.6
55°	803.7	801.0	793.8	784.0	778.6	775.9	767.8	757.9	750.7	746.2
57.5°	743.5	738.2	729.2	720.2	713.0	705.8	700.4	693.3	684.3	682.5
60°	689.7	678.9	670.8	660.9	655.5	649.3	642.1	636.7	629.5	622.3
62.5°	639.4	630.4	619.6	609.7	604.4	599.0	591.8	583.7	579.2	577.4
65°	595.4	586.4	573.8	563.9	559.5	554.1	548.7	539.7	537.0	532.5
67.5°	555.9	544.2	532.5	523.5	519.0	517.3	511.9	506.5	500.2	496.6
70°	519.0	507.4	496.6	490.3	484.9	483.1	478.6	471.5	467.0	464.3
72.5°	484.0	474.1	465.2	456.2	452.6	451.7	448.1	442.7	438.2	435.5
75°	454.4	444.5	435.5	431.0	427.4	424.8	423.0	417.6	414.9	410.4
77.5°	428.3	416.7	408.6	404.1	401.4	399.6	397.8	395.1	391.5	388.8
80°	400.5	391.5	385.2	380.8	379.0	377.2	375.4	373.6	370.9	368.2
82.5°	377.2	369.1	363.7	360.1	360.1	358.3	357.4	355.6	352.9	349.3
85°	354.7	347.5	343.0	341.2	340.3	339.4	338.5	336.8	334.1	331.4
87.5°	335.9	330.5	326.0	325.1	325.1	324.2	323.3	322.4	319.7	317.0
90°	323.3	317.9	315.2	314.3	313.4	313.4	313.4	311.6	308.9	306.2
92.5°	321.5	316.1	313.4	311.6	311.6	311.6	311.6	309.8	307.1	303.5
95°	324.2	318.8	316.1	314.3	313.4	313.4	312.5	310.7	308.0	304.4
97.5°	330.5	325.1	321.5	318.8	317.9	317.9	317.0	315.2	312.5	309.8
100°	334.1	328.7	325.1	322.4	321.5	320.6	319.7	317.9	315.2	311.6
102.5°	336.8	331.4	326.9	325.1	324.2	323.3	321.5	319.7	317.0	313.4
105°	338.5	334.1	330.5	326.9	326.0	325.1	323.3	321.5	317.9	315.2
107.5°	341.2	336.8	332.3	329.6	327.8	326.9	325.1	323.3	319.7	316.1
110°	342.1	338.5	334.1	331.4	329.6	328.7	326.0	323.3	319.7	317.0





TEST NUMBER: P232572

CATALOG NUMBER: 4SKB1-LD5-6-W-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	343.0	340.3	335.9	332.3	331.4	329.6	326.9	324.2	320.6	317.0
115°	343.0	340.3	336.8	333.2	332.3	330.5	327.8	324.2	320.6	317.0
117.5°	342.1	340.3	337.6	334.1	332.3	330.5	327.8	324.2	319.7	317.0
120°	339.4	339.4	336.8	334.1	332.3	330.5	326.9	323.3	319.7	316.1
122.5°	335.0	336.8	335.0	332.3	331.4	329.6	326.9	322.4	317.9	315.2
125°	328.7	333.2	332.3	330.5	329.6	327.8	325.1	321.5	317.0	313.4
127.5°	320.6	326.9	328.7	327.8	326.9	326.0	322.4	318.8	315.2	310.7
130°	310.7	318.8	322.4	322.4	322.4	321.5	319.7	316.1	311.6	308.0
132.5°	298.1	308.0	313.4	316.1	316.1	316.1	314.3	311.6	308.0	303.5
135°	283.8	296.3	303.5	307.1	308.0	308.0	308.0	306.2	302.6	299.0
137.5°	266.7	281.1	291.0	296.3	298.1	299.0	299.9	298.1	294.5	291.0
140°	241.6	262.2	274.8	282.0	283.8	286.5	288.3	286.5	283.8	281.1
142.5°	216.4	238.0	255.9	265.8	267.6	270.3	273.0	273.0	270.3	267.6
145°	189.5	211.0	229.9	246.1	248.7	251.4	255.0	256.8	254.1	251.4
147.5°	158.0	180.5	200.3	218.2	226.3	229.9	233.5	235.3	234.4	231.7
150°	124.8	149.1	167.9	185.9	194.0	204.7	209.2	210.1	209.2	206.5
152.5°	75.4	110.5	132.0	150.0	157.2	167.0	179.6	182.3	180.5	178.7
155°	42.2	57.5	80.8	107.8	115.8	124.8	140.1	146.4	145.5	145.5
157.5°	12.6	31.4	43.1	53.0	56.6	62.0	79.9	95.2	99.7	100.6
160°	0.9	0.9	10.8	21.6	26.9	32.3	41.3	46.7	47.6	48.5
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)