

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: P232491

Luminaire Tested: **8SKB1-LD5-6-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232491
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-LD5-6-W-UNV-L850-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6233.0 lumens
Efficiency: N/A
Efficacy: 148.4 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

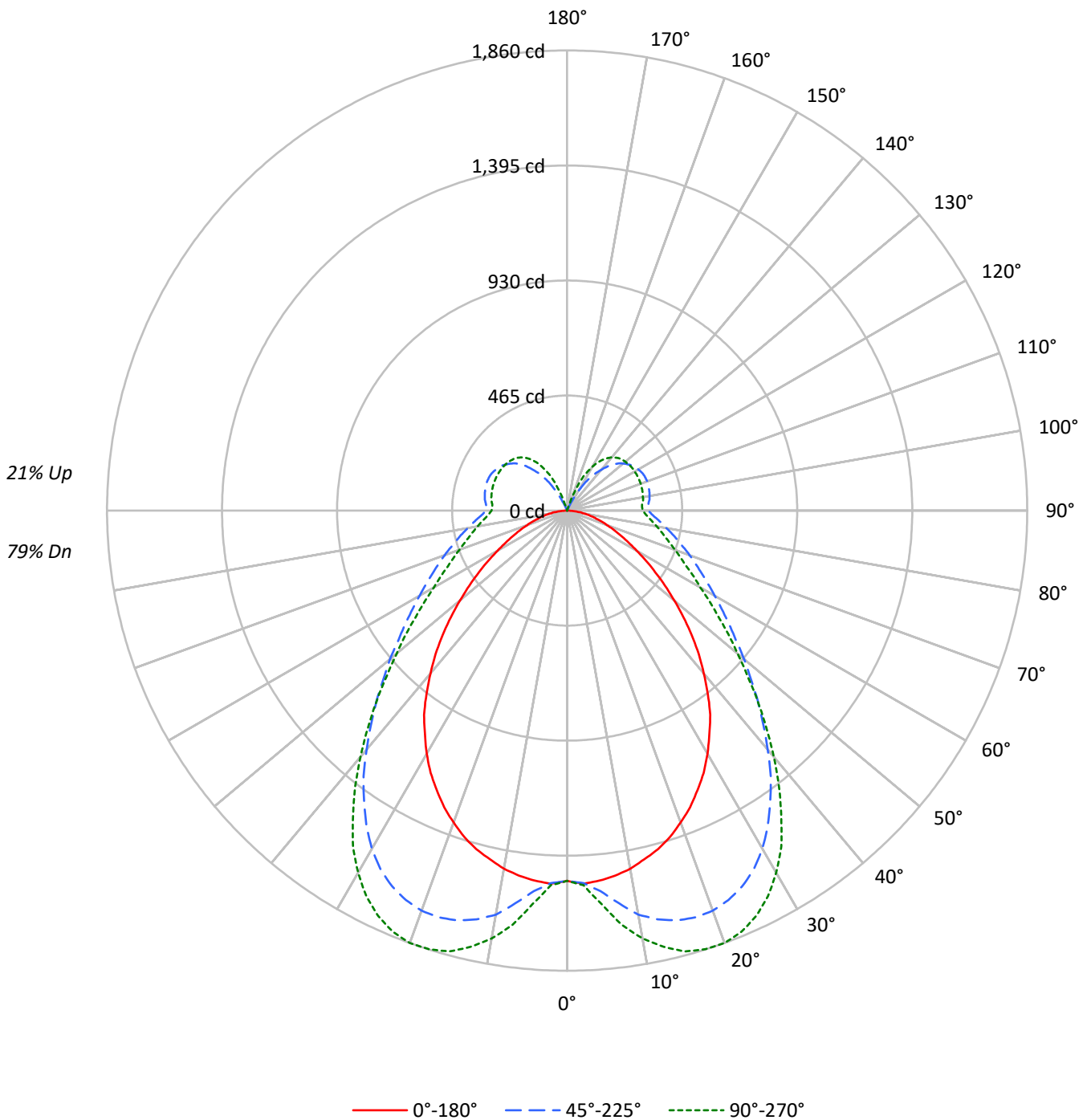
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8057	8057	8057
5°	8086	7762	7826
10°	7983	7881	7960
15°	7820	7781	7831
20°	7585	7527	7478
25°	7281	7123	6954
30°	6907	6579	6275
35°	6461	5894	5456
40°	5855	5170	4614
45°	5220	4483	3826
50°	4531	3884	3152
55°	3878	3380	2621
60°	3285	3000	2214
65°	2816	2704	1933
70°	2462	2485	1734
75°	2149	2300	1591
80°	1841	2166	1495
85°	1369	2086	1425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.4
10°-20°	475.2	7.6
20°-30°	744.6	11.9
30°-40°	852.7	13.7
40°-50°	785.3	12.6
50°-60°	644.5	10.3
60°-70°	515.3	8.3
70°-80°	413.9	6.6
80°-90°	329.2	5.3
90°-100°	294.3	4.7
100°-110°	286.6	4.6
110°-120°	259.8	4.2
120°-130°	214.7	3.4
130°-140°	154.0	2.5
140°-150°	85.6	1.4
150°-160°	25.8	0.4
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1370.9	22.0
0°-40°	2223.5	35.7
0°-60°	3653.3	58.6
0°-90°	4911.8	78.8
90°-120°	840.6	13.5
90°-150°	1294.9	20.8
90°-180°	1321.0	21.2
0°-180°	6233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1502	1517	1544	1596	1596	142
15°	1417	1561	1715	1822	1845	399
25°	1247	1484	1675	1794	1808	573
35°	1008	1254	1432	1516	1509	626
45°	711	947	1090	1119	1089	548
55°	435	680	798	777	745	392
65°	238	499	600	558	532	240
75°	117	380	462	427	410	126
85°	31	288	362	340	331	34
90°	2	256	328	313	306	2
95°	1	254	330	313	304	1
105°	1	248	342	325	315	1
115°	1	224	342	332	316	1
125°	1	175	318	329	313	1
135°	1	64	264	308	298	1
145°	1	3	162	248	251	1
155°	1	1	25	116	145	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°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1509.6	1503.3	1498.8	1503.3	1505.1	1506.9	1511.4	1510.5	1511.4	1509.6	1506.9
5°	1501.5	1496.1	1494.3	1503.3	1512.3	1516.7	1523.0	1529.3	1534.7	1541.8	1543.6
7.5°	1488.1	1485.4	1487.2	1503.3	1517.6	1528.4	1537.4	1553.5	1569.6	1585.8	1601.0
10°	1470.1	1468.3	1476.4	1500.6	1523.9	1539.2	1554.4	1584.0	1611.8	1636.9	1658.4
12.5°	1443.2	1447.7	1461.2	1493.4	1530.2	1551.7	1575.9	1612.7	1642.2	1670.9	1692.4
15°	1417.2	1419.9	1445.9	1484.5	1527.5	1560.7	1585.8	1632.4	1662.9	1692.4	1714.9
17.5°	1383.2	1389.5	1418.1	1472.8	1525.7	1555.3	1585.8	1622.5	1659.3	1693.3	1723.8
20°	1341.9	1355.4	1393.9	1454.0	1514.1	1543.6	1570.5	1615.4	1653.0	1686.2	1721.1
22.5°	1298.0	1313.3	1356.3	1428.0	1489.9	1519.4	1545.4	1594.7	1633.3	1666.4	1704.1
25°	1246.9	1266.6	1317.7	1394.8	1454.0	1484.5	1512.3	1562.5	1602.8	1636.0	1675.4
27.5°	1194.9	1217.3	1272.9	1350.9	1411.9	1440.5	1469.2	1519.4	1559.8	1592.9	1634.2
30°	1134.9	1159.1	1221.8	1297.1	1357.2	1388.6	1414.6	1463.9	1507.8	1537.4	1578.6
32.5°	1070.3	1098.1	1165.3	1238.0	1298.0	1327.6	1353.6	1401.1	1440.5	1471.9	1509.6
35°	1008.5	1030.9	1099.0	1169.8	1227.2	1254.1	1284.6	1330.3	1365.3	1397.5	1431.6
37.5°	934.1	961.0	1030.0	1097.2	1154.6	1183.3	1208.4	1250.5	1282.8	1313.3	1351.8
40°	858.8	888.4	960.1	1020.1	1079.3	1101.7	1126.8	1165.3	1195.8	1233.5	1261.3
42.5°	788.0	815.7	883.9	944.8	1000.4	1022.8	1047.0	1087.4	1113.4	1145.6	1173.4
45°	710.9	739.5	812.2	869.5	922.4	946.6	971.7	1004.9	1034.5	1060.5	1090.0
47.5°	637.4	671.4	741.3	795.1	848.9	871.3	892.8	927.8	957.4	985.2	1005.8
50°	564.7	601.5	669.6	727.9	779.0	801.4	822.9	857.9	888.4	912.6	934.1
52.5°	498.4	537.0	606.9	667.8	713.6	736.9	758.4	792.4	822.9	845.3	859.7
55°	434.8	477.8	550.4	609.6	655.3	680.4	697.4	733.3	763.8	784.4	797.8
57.5°	379.2	426.7	495.7	556.7	604.2	626.6	647.2	681.3	710.0	729.7	740.4
60°	324.5	377.4	449.1	508.3	556.7	578.2	600.6	634.7	661.6	679.5	689.3
62.5°	278.8	334.4	408.8	466.1	515.4	537.0	556.7	590.7	616.7	634.7	642.7
65°	238.4	296.7	372.0	429.4	476.9	499.3	519.9	554.9	579.1	596.1	599.7
67.5°	203.5	262.7	338.8	395.3	444.6	465.2	485.9	520.8	544.1	558.5	561.2
70°	172.1	232.2	308.4	364.8	413.3	435.7	456.3	487.7	511.9	523.5	527.1
72.5°	143.4	206.2	279.7	338.0	386.4	407.0	426.7	459.9	482.3	493.0	492.1
75°	117.4	182.0	255.5	312.9	358.6	380.1	399.8	432.1	454.5	463.4	461.7
77.5°	95.0	161.4	232.2	287.8	334.4	355.9	373.8	406.1	426.7	436.6	434.8
80°	71.7	138.9	209.8	264.4	311.1	330.8	350.5	381.0	401.6	411.5	407.0
82.5°	52.0	118.3	189.1	242.9	288.6	309.3	327.2	358.6	378.3	386.4	383.7
85°	31.4	97.7	166.7	222.3	268.0	287.8	307.5	337.1	356.8	364.8	362.2
87.5°	13.4	78.9	147.9	203.5	249.2	268.9	287.8	317.3	336.2	344.2	341.5
90°	1.8	66.3	136.3	190.9	235.8	255.5	274.3	303.9	322.7	330.8	328.1
92.5°	0.9	63.6	132.7	187.4	232.2	252.8	270.7	301.2	320.9	328.1	327.2
95°	0.9	59.2	130.9	187.4	233.1	253.7	272.5	303.0	322.7	330.8	329.9
97.5°	0.9	52.9	128.2	186.5	234.0	255.5	274.3	306.6	327.2	336.2	335.3
100°	0.9	43.0	122.8	183.8	232.2	254.6	273.4	306.6	328.1	338.0	338.0
102.5°	0.9	29.6	116.5	179.3	230.4	251.9	271.6	305.7	328.1	338.8	340.6
105°	0.9	17.9	108.5	173.9	225.9	248.3	268.9	303.9	327.2	339.7	342.4
107.5°	0.9	11.7	98.6	167.6	221.4	244.7	265.3	301.2	325.4	339.7	343.3
110°	0.9	9.9	86.1	160.5	215.1	238.4	260.0	297.6	322.7	338.8	344.2



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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	66.3	150.6	208.0	232.2	254.6	291.3	319.1	335.3	343.3
115°	0.9	6.3	43.0	138.9	199.0	224.1	246.5	285.1	312.9	331.7	341.5
117.5°	0.9	5.4	27.8	125.5	189.1	214.2	237.6	277.0	306.6	326.3	338.0
120°	0.9	4.5	11.7	107.6	176.6	203.5	226.8	266.2	297.6	319.1	332.6
122.5°	0.9	3.6	9.0	80.7	162.3	190.0	214.2	255.5	286.9	311.1	325.4
125°	0.9	3.6	7.2	52.0	144.3	174.8	200.8	242.9	276.1	301.2	318.2
127.5°	0.9	2.7	6.3	35.0	122.8	156.9	184.7	228.6	262.7	288.6	307.5
130°	0.9	2.7	5.4	15.2	91.4	134.5	164.9	211.6	247.4	275.2	295.8
132.5°	0.9	1.8	4.5	6.3	56.5	104.0	139.8	190.0	229.5	259.1	282.4
135°	0.9	1.8	3.6	5.4	37.6	63.6	109.4	165.8	206.2	237.6	264.4
137.5°	0.9	1.8	2.7	4.5	15.2	42.1	67.2	138.9	181.1	214.2	242.0
140°	0.9	1.8	2.7	3.6	4.5	19.7	45.7	105.8	153.3	189.1	216.0
142.5°	0.9	1.8	2.7	2.7	3.6	4.5	22.4	61.9	122.8	161.4	190.9
145°	0.9	0.9	1.8	2.7	2.7	2.7	3.6	42.1	79.8	130.9	162.3
147.5°	0.9	0.9	1.8	1.8	2.7	2.7	2.7	17.0	49.3	92.3	130.9
150°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	25.1	50.2	88.7
152.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	2.7	28.7	49.3
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°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1511.4	1519.4	1523.0	1526.6	1527.5	1528.4	1526.6	1525.7	1519.4	1515.8
5°	1556.2	1575.9	1584.0	1595.6	1596.5	1597.4	1602.8	1600.1	1601.0	1596.5
7.5°	1621.6	1650.3	1662.9	1678.1	1681.7	1686.2	1695.1	1696.0	1695.1	1688.9
10°	1682.6	1706.8	1725.6	1740.0	1745.3	1748.9	1759.7	1762.4	1760.6	1756.1
12.5°	1719.3	1750.7	1769.5	1790.2	1795.5	1800.9	1809.9	1814.4	1809.0	1806.3
15°	1750.7	1783.9	1799.1	1821.5	1822.4	1832.3	1847.5	1849.3	1846.6	1844.8
17.5°	1758.8	1792.8	1815.3	1835.0	1842.1	1848.4	1857.4	1864.6	1865.5	1858.3
20°	1757.0	1789.3	1816.2	1836.8	1844.8	1849.3	1861.0	1866.3	1863.7	1860.1
22.5°	1742.6	1774.9	1801.8	1819.7	1826.9	1834.1	1844.8	1849.3	1849.3	1842.1
25°	1713.1	1745.3	1768.6	1787.5	1793.7	1800.9	1811.7	1814.4	1812.6	1808.1
27.5°	1670.9	1699.6	1722.9	1739.1	1745.3	1751.6	1763.3	1766.0	1762.4	1757.9
30°	1609.1	1638.7	1662.0	1676.3	1681.7	1686.2	1693.3	1699.6	1694.2	1689.8
32.5°	1541.8	1568.7	1584.9	1598.3	1601.9	1605.5	1612.7	1615.4	1610.0	1610.9
35°	1463.0	1486.3	1505.1	1514.1	1515.8	1515.0	1518.5	1519.4	1520.3	1508.7
37.5°	1376.9	1397.5	1406.5	1419.0	1416.3	1420.8	1424.4	1420.8	1411.9	1407.4
40°	1284.6	1298.0	1313.3	1317.7	1315.1	1321.3	1319.5	1313.3	1303.4	1299.8
42.5°	1193.1	1208.4	1213.8	1217.3	1214.7	1215.5	1212.0	1210.2	1200.3	1192.2
45°	1106.2	1116.9	1119.6	1118.7	1118.7	1114.3	1109.8	1102.6	1093.6	1089.2
47.5°	1021.0	1028.2	1029.1	1024.6	1021.0	1015.6	1016.5	1004.0	993.2	987.9
50°	942.1	944.8	942.1	934.1	932.3	926.0	922.4	912.6	902.7	900.0
52.5°	871.3	870.4	865.0	856.1	852.5	846.2	839.9	831.0	821.1	821.1
55°	802.3	799.6	792.4	782.6	777.2	774.5	766.4	756.6	749.4	744.9
57.5°	742.2	736.9	727.9	718.9	711.8	704.6	699.2	692.0	683.1	681.3
60°	688.5	677.7	669.6	659.8	654.4	648.1	640.9	635.6	628.4	621.2
62.5°	638.3	629.3	618.5	608.7	603.3	597.9	590.7	582.7	578.2	576.4
65°	594.3	585.4	572.8	563.0	558.5	553.1	547.7	538.7	536.1	531.6
67.5°	554.9	543.2	531.6	522.6	518.1	516.3	511.0	505.6	499.3	495.7
70°	518.1	506.5	495.7	489.4	484.1	482.3	477.8	470.6	466.1	463.4
72.5°	483.2	473.3	464.3	455.4	451.8	450.9	447.3	441.9	437.5	434.8
75°	453.6	443.7	434.8	430.3	426.7	424.0	422.2	416.8	414.1	409.7
77.5°	427.6	415.9	407.9	403.4	400.7	398.9	397.1	394.4	390.8	388.2
80°	399.8	390.8	384.6	380.1	378.3	376.5	374.7	372.9	370.2	367.5
82.5°	376.5	368.4	363.1	359.5	359.5	357.7	356.8	355.0	352.3	348.7
85°	354.1	346.9	342.4	340.6	339.7	338.8	338.0	336.2	333.5	330.8
87.5°	335.3	329.9	325.4	324.5	324.5	323.6	322.7	321.8	319.1	316.4
90°	322.7	317.3	314.6	313.7	312.9	312.9	312.9	311.1	308.4	305.7
92.5°	320.9	315.5	312.9	311.1	311.1	311.1	311.1	309.3	306.6	303.0
95°	323.6	318.2	315.5	313.7	312.9	312.9	312.0	310.2	307.5	303.9
97.5°	329.9	324.5	320.9	318.2	317.3	317.3	316.4	314.6	312.0	309.3
100°	333.5	328.1	324.5	321.8	320.9	320.0	319.1	317.3	314.6	311.1
102.5°	336.2	330.8	326.3	324.5	323.6	322.7	320.9	319.1	316.4	312.9
105°	338.0	333.5	329.9	326.3	325.4	324.5	322.7	320.9	317.3	314.6
107.5°	340.6	336.2	331.7	329.0	327.2	326.3	324.5	322.7	319.1	315.5
110°	341.5	338.0	333.5	330.8	329.0	328.1	325.4	322.7	319.1	316.4



TEST NUMBER: P232491

CATALOG NUMBER: 8SKB1-LD5-6-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	342.4	339.7	335.3	331.7	330.8	329.0	326.3	323.6	320.0	316.4
115°	342.4	339.7	336.2	332.6	331.7	329.9	327.2	323.6	320.0	316.4
117.5°	341.5	339.7	337.1	333.5	331.7	329.9	327.2	323.6	319.1	316.4
120°	338.8	338.8	336.2	333.5	331.7	329.9	326.3	322.7	319.1	315.5
122.5°	334.4	336.2	334.4	331.7	330.8	329.0	326.3	321.8	317.3	314.6
125°	328.1	332.6	331.7	329.9	329.0	327.2	324.5	320.9	316.4	312.9
127.5°	320.0	326.3	328.1	327.2	326.3	325.4	321.8	318.2	314.6	310.2
130°	310.2	318.2	321.8	321.8	321.8	320.9	319.1	315.5	311.1	307.5
132.5°	297.6	307.5	312.9	315.5	315.5	315.5	313.7	311.1	307.5	303.0
135°	283.3	295.8	303.0	306.6	307.5	307.5	307.5	305.7	302.1	298.5
137.5°	266.2	280.6	290.4	295.8	297.6	298.5	299.4	297.6	294.0	290.4
140°	241.1	261.8	274.3	281.5	283.3	286.0	287.8	286.0	283.3	280.6
142.5°	216.0	237.6	255.5	265.3	267.1	269.8	272.5	272.5	269.8	267.1
145°	189.1	210.7	229.5	245.6	248.3	251.0	254.6	256.4	253.7	251.0
147.5°	157.8	180.2	199.9	217.8	225.9	229.5	233.1	234.9	234.0	231.3
150°	124.6	148.8	167.6	185.6	193.6	204.4	208.9	209.8	208.9	206.2
152.5°	75.3	110.3	131.8	149.7	156.9	166.7	179.3	182.0	180.2	178.4
155°	42.1	57.4	80.7	107.6	115.6	124.6	139.8	146.1	145.2	145.2
157.5°	12.5	31.4	43.0	52.9	56.5	61.9	79.8	95.0	99.5	100.4
160°	0.9	0.9	10.8	21.5	26.9	32.3	41.2	46.6	47.5	48.4
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)