

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: P232490

Luminaire Tested: **8SKB1-LD5-6-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232490
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-L840-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6042.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

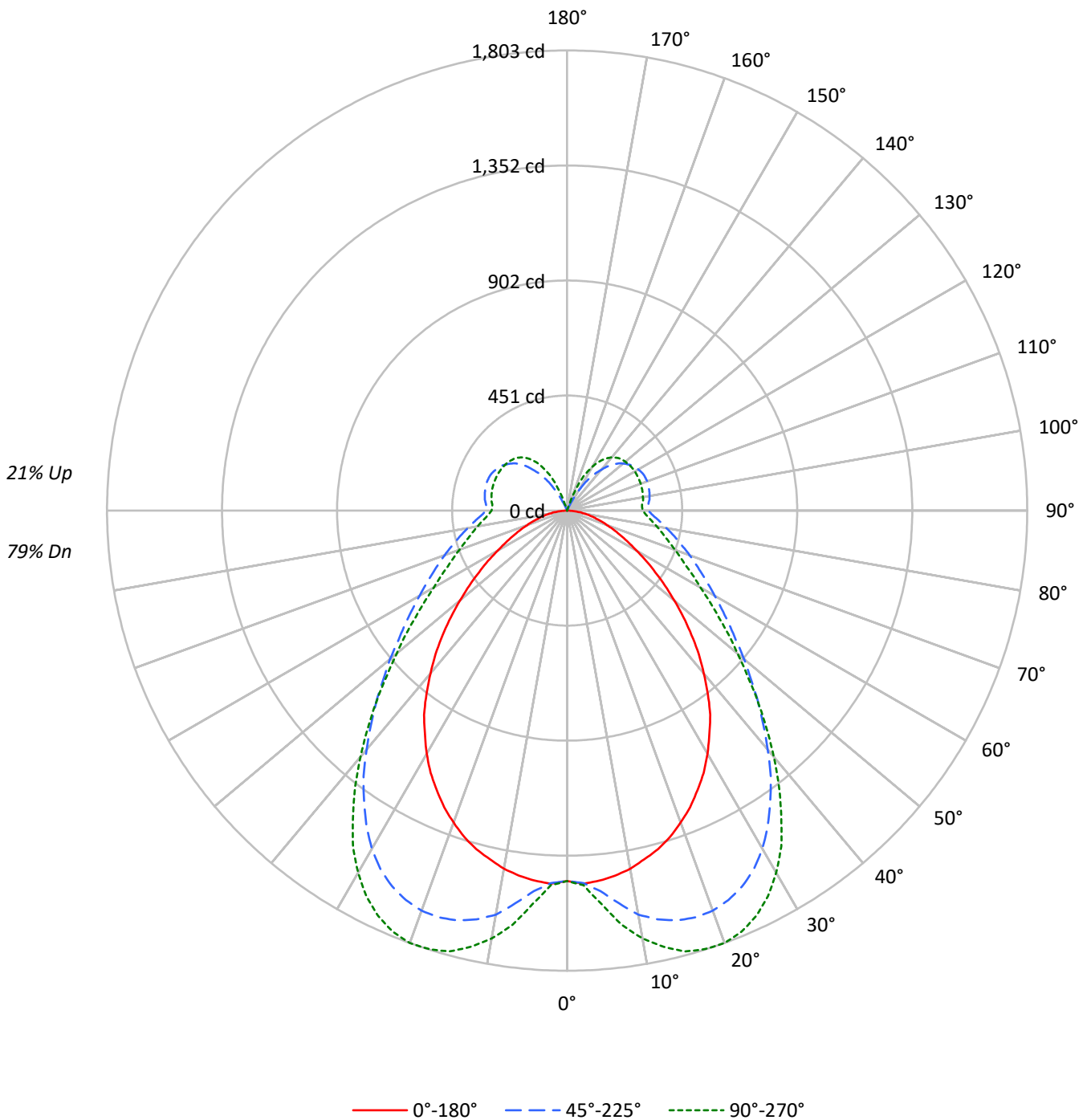
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7810	7810	7810
5°	7838	7524	7587
10°	7738	7639	7716
15°	7580	7543	7591
20°	7353	7296	7249
25°	7058	6905	6741
30°	6696	6377	6082
35°	6263	5714	5288
40°	5675	5012	4473
45°	5060	4345	3709
50°	4392	3764	3056
55°	3758	3276	2541
60°	3185	2908	2146
65°	2730	2621	1874
70°	2386	2409	1681
75°	2083	2229	1542
80°	1785	2099	1450
85°	1325	2022	1381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	2.4
10°-20°	460.6	7.6
20°-30°	721.8	11.9
30°-40°	826.5	13.7
40°-50°	761.2	12.6
50°-60°	624.7	10.3
60°-70°	499.5	8.3
70°-80°	401.2	6.6
80°-90°	319.2	5.3
90°-100°	285.3	4.7
100°-110°	277.8	4.6
110°-120°	251.8	4.2
120°-130°	208.1	3.4
130°-140°	149.3	2.5
140°-150°	82.9	1.4
150°-160°	25.0	0.4
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1328.9	22.0
0°-40°	2155.4	35.7
0°-60°	3541.4	58.6
0°-90°	4761.3	78.8
90°-120°	814.9	13.5
90°-150°	1255.2	20.8
90°-180°	1281.0	21.2
0°-180°	6042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1456	1470	1496	1548	1548	138
15°	1374	1513	1662	1767	1788	386
25°	1209	1439	1624	1739	1753	556
35°	978	1216	1388	1469	1462	607
45°	689	918	1057	1084	1056	531
55°	421	660	773	753	722	380
65°	231	484	581	541	515	232
75°	114	368	448	414	397	122
85°	30	279	351	329	321	33
90°	2	248	318	303	296	2
95°	1	246	320	303	295	1
105°	1	241	332	315	305	1
115°	1	217	331	322	307	1
125°	1	169	308	319	303	1
135°	1	62	256	298	289	1
145°	1	3	157	241	243	1
155°	1	1	24	112	141	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°	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2
2.5°	1463.3	1457.2	1452.9	1457.2	1459.0	1460.7	1465.1	1464.2	1465.1	1463.3	1460.7
5°	1455.5	1450.3	1448.5	1457.2	1465.9	1470.3	1476.3	1482.4	1487.6	1494.6	1496.3
7.5°	1442.5	1439.9	1441.6	1457.2	1471.1	1481.6	1490.3	1505.9	1521.5	1537.2	1551.9
10°	1425.1	1423.3	1431.2	1454.6	1477.2	1492.0	1506.8	1535.4	1562.4	1586.7	1607.6
12.5°	1399.0	1403.4	1416.4	1447.7	1483.3	1504.2	1527.6	1563.2	1591.9	1619.7	1640.6
15°	1373.8	1376.4	1401.6	1439.0	1480.7	1512.8	1537.2	1582.4	1611.9	1640.6	1662.3
17.5°	1340.8	1346.9	1374.7	1427.7	1479.0	1507.6	1537.2	1572.8	1608.4	1641.5	1671.0
20°	1300.8	1313.9	1351.2	1409.4	1467.7	1496.3	1522.4	1565.9	1602.3	1634.5	1668.4
22.5°	1258.2	1273.0	1314.7	1384.2	1444.2	1472.9	1498.1	1545.9	1583.2	1615.4	1651.9
25°	1208.7	1227.8	1277.4	1352.1	1409.4	1439.0	1465.9	1514.6	1553.7	1585.8	1624.1
27.5°	1158.3	1180.0	1233.9	1309.5	1368.6	1396.4	1424.2	1472.9	1512.0	1544.1	1584.1
30°	1100.1	1123.6	1184.4	1257.4	1315.6	1346.0	1371.2	1419.0	1461.6	1490.3	1530.2
32.5°	1037.5	1064.5	1129.6	1200.0	1258.2	1286.9	1312.1	1358.2	1396.4	1426.8	1463.3
35°	977.6	999.3	1065.3	1134.0	1189.6	1215.7	1245.2	1289.5	1323.4	1354.7	1387.7
37.5°	905.4	931.5	998.4	1063.6	1119.2	1147.0	1171.3	1212.2	1243.5	1273.0	1310.4
40°	832.5	861.1	930.6	988.9	1046.2	1067.9	1092.3	1129.6	1159.2	1195.7	1222.6
42.5°	763.8	790.7	856.8	915.9	969.8	991.5	1014.9	1054.0	1079.2	1110.5	1137.5
45°	689.1	716.9	787.3	842.9	894.2	917.6	941.9	974.1	1002.8	1028.0	1056.6
47.5°	617.8	650.8	718.6	770.8	822.9	844.6	865.5	899.4	928.0	955.0	975.0
50°	547.4	583.1	649.1	705.6	755.1	776.8	797.7	831.6	861.1	884.6	905.4
52.5°	483.1	520.5	588.3	647.4	691.7	714.3	735.1	768.2	797.7	819.4	833.3
55°	421.4	463.2	533.5	590.9	635.2	659.5	676.0	710.8	740.3	760.3	773.4
57.5°	367.6	413.6	480.5	539.6	585.7	607.4	627.4	660.4	688.2	707.3	717.8
60°	314.6	365.8	435.3	492.7	539.6	560.5	582.2	615.2	641.3	658.7	668.2
62.5°	270.2	324.1	396.2	451.9	499.6	520.5	539.6	572.6	597.8	615.2	623.0
65°	231.1	287.6	360.6	416.2	462.3	484.0	504.0	537.9	561.3	577.9	581.3
67.5°	197.3	254.6	328.5	383.2	431.0	451.0	471.0	504.9	527.5	541.4	544.0
70°	166.8	225.1	298.9	353.7	400.6	422.3	442.3	472.7	496.2	507.5	510.9
72.5°	139.0	199.9	271.1	327.6	374.5	394.5	413.6	445.8	467.5	477.9	477.1
75°	113.8	176.4	247.7	303.3	347.6	368.4	387.6	418.8	440.6	449.2	447.5
77.5°	92.1	156.4	225.1	278.9	324.1	345.0	362.4	393.6	413.6	423.2	421.4
80°	69.5	134.7	203.3	256.3	301.5	320.6	339.8	369.3	389.3	398.8	394.5
82.5°	50.4	114.7	183.3	235.5	279.8	299.8	317.2	347.6	366.7	374.5	371.9
85°	30.4	94.7	161.6	215.5	259.8	278.9	298.1	326.7	345.8	353.7	351.1
87.5°	13.0	76.5	143.4	197.3	241.6	260.7	278.9	307.6	325.9	333.7	331.1
90°	1.7	64.3	132.1	185.1	228.5	247.7	265.9	294.6	312.8	320.6	318.0
92.5°	0.9	61.7	128.6	181.6	225.1	245.0	262.4	292.0	311.1	318.0	317.2
95°	0.9	57.4	126.9	181.6	225.9	245.9	264.2	293.7	312.8	320.6	319.8
97.5°	0.9	51.3	124.3	180.7	226.8	247.7	265.9	297.2	317.2	325.9	325.0
100°	0.9	41.7	119.0	178.1	225.1	246.8	265.0	297.2	318.0	327.6	327.6
102.5°	0.9	28.7	113.0	173.8	223.3	244.2	263.3	296.3	318.0	328.5	330.2
105°	0.9	17.4	105.1	168.6	219.0	240.7	260.7	294.6	317.2	329.3	331.9
107.5°	0.9	11.3	95.6	162.5	214.6	237.2	257.2	292.0	315.4	329.3	332.8
110°	0.9	9.6	83.4	155.5	208.5	231.1	252.0	288.5	312.8	328.5	333.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	7.8	64.3	146.0	201.6	225.1	246.8	282.4	309.3	325.0	332.8
115°	0.9	6.1	41.7	134.7	192.9	217.2	239.0	276.3	303.3	321.5	331.1
117.5°	0.9	5.2	26.9	121.7	183.3	207.7	230.3	268.5	297.2	316.3	327.6
120°	0.9	4.3	11.3	104.3	171.2	197.3	219.8	258.1	288.5	309.3	322.4
122.5°	0.9	3.5	8.7	78.2	157.3	184.2	207.7	247.7	278.1	301.5	315.4
125°	0.9	3.5	7.0	50.4	139.9	169.4	194.6	235.5	267.6	292.0	308.5
127.5°	0.9	2.6	6.1	33.9	119.0	152.1	179.0	221.6	254.6	279.8	298.1
130°	0.9	2.6	5.2	14.8	88.6	130.3	159.9	205.1	239.8	266.8	286.8
132.5°	0.9	1.7	4.3	6.1	54.7	100.8	135.6	184.2	222.5	251.1	273.7
135°	0.9	1.7	3.5	5.2	36.5	61.7	106.0	160.8	199.9	230.3	256.3
137.5°	0.9	1.7	2.6	4.3	14.8	40.8	65.2	134.7	175.5	207.7	234.6
140°	0.9	1.7	2.6	3.5	4.3	19.1	44.3	102.5	148.6	183.3	209.4
142.5°	0.9	1.7	2.6	2.6	3.5	4.3	21.7	60.0	119.0	156.4	185.1
145°	0.9	0.9	1.7	2.6	2.6	2.6	3.5	40.8	77.3	126.9	157.3
147.5°	0.9	0.9	1.7	1.7	2.6	2.6	2.6	16.5	47.8	89.5	126.9
150°	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	24.3	48.7	86.0
152.5°	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	2.6	27.8	47.8
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6	24.3
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°	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2	1451.2
2.5°	1465.1	1472.9	1476.3	1479.8	1480.7	1481.6	1479.8	1479.0	1472.9	1469.4
5°	1508.5	1527.6	1535.4	1546.7	1547.6	1548.5	1553.7	1551.1	1551.9	1547.6
7.5°	1571.9	1599.7	1611.9	1626.7	1630.2	1634.5	1643.2	1644.1	1643.2	1637.1
10°	1631.0	1654.5	1672.7	1686.6	1691.9	1695.3	1705.8	1708.4	1706.6	1702.3
12.5°	1666.7	1697.1	1715.3	1735.3	1740.5	1745.7	1754.4	1758.8	1753.5	1750.9
15°	1697.1	1729.2	1744.0	1765.7	1766.6	1776.1	1790.9	1792.6	1790.0	1788.3
17.5°	1704.9	1737.9	1759.6	1778.7	1785.7	1791.8	1800.5	1807.4	1808.3	1801.3
20°	1703.1	1734.4	1760.5	1780.5	1788.3	1792.6	1803.9	1809.2	1806.6	1803.1
22.5°	1689.2	1720.5	1746.6	1764.0	1770.9	1777.9	1788.3	1792.6	1792.6	1785.7
25°	1660.6	1691.9	1714.4	1732.7	1738.8	1745.7	1756.2	1758.8	1757.0	1752.7
27.5°	1619.7	1647.5	1670.1	1685.8	1691.9	1697.9	1709.2	1711.8	1708.4	1704.0
30°	1559.8	1588.4	1611.0	1624.9	1630.2	1634.5	1641.5	1647.5	1642.3	1638.0
32.5°	1494.6	1520.7	1536.3	1549.3	1552.8	1556.3	1563.2	1565.9	1560.6	1561.5
35°	1418.1	1440.7	1459.0	1467.7	1469.4	1468.5	1472.0	1472.9	1473.7	1462.4
37.5°	1334.7	1354.7	1363.4	1375.6	1372.9	1377.3	1380.8	1377.3	1368.6	1364.3
40°	1245.2	1258.2	1273.0	1277.4	1274.8	1280.8	1279.1	1273.0	1263.5	1260.0
42.5°	1156.6	1171.3	1176.6	1180.0	1177.4	1178.3	1174.8	1173.1	1163.5	1155.7
45°	1072.3	1082.7	1085.3	1084.5	1084.5	1080.1	1075.8	1068.8	1060.1	1055.8
47.5°	989.7	996.7	997.6	993.2	989.7	984.5	985.4	973.2	962.8	957.6
50°	913.3	915.9	913.3	905.4	903.7	897.6	894.2	884.6	875.0	872.4
52.5°	844.6	843.8	838.5	829.8	826.4	820.3	814.2	805.5	796.0	796.0
55°	777.7	775.1	768.2	758.6	753.4	750.8	743.0	733.4	726.4	722.1
57.5°	719.5	714.3	705.6	696.9	689.9	683.0	677.8	670.8	662.1	660.4
60°	667.4	656.9	649.1	639.5	634.3	628.3	621.3	616.1	609.1	602.2
62.5°	618.7	610.0	599.6	590.0	584.8	579.6	572.6	564.8	560.5	558.7
65°	576.1	567.4	555.3	545.7	541.4	536.1	530.9	522.2	519.6	515.3
67.5°	537.9	526.6	515.3	506.6	502.3	500.5	495.3	490.1	484.0	480.5
70°	502.3	491.0	480.5	474.4	469.2	467.5	463.2	456.2	451.9	449.2
72.5°	468.4	458.8	450.1	441.4	438.0	437.1	433.6	428.4	424.0	421.4
75°	439.7	430.1	421.4	417.1	413.6	411.0	409.3	404.1	401.5	397.1
77.5°	414.5	403.2	395.4	391.0	388.4	386.7	384.9	382.3	378.9	376.3
80°	387.6	378.9	372.8	368.4	366.7	365.0	363.2	361.5	358.9	356.3
82.5°	365.0	357.1	351.9	348.4	348.4	346.7	345.8	344.1	341.5	338.0
85°	343.2	336.3	331.9	330.2	329.3	328.5	327.6	325.9	323.3	320.6
87.5°	325.0	319.8	315.4	314.6	314.6	313.7	312.8	312.0	309.3	306.7
90°	312.8	307.6	305.0	304.1	303.3	303.3	303.3	301.5	298.9	296.3
92.5°	311.1	305.9	303.3	301.5	301.5	301.5	301.5	299.8	297.2	293.7
95°	313.7	308.5	305.9	304.1	303.3	303.3	302.4	300.7	298.1	294.6
97.5°	319.8	314.6	311.1	308.5	307.6	307.6	306.7	305.0	302.4	299.8
100°	323.3	318.0	314.6	312.0	311.1	310.2	309.3	307.6	305.0	301.5
102.5°	325.9	320.6	316.3	314.6	313.7	312.8	311.1	309.3	306.7	303.3
105°	327.6	323.3	319.8	316.3	315.4	314.6	312.8	311.1	307.6	305.0
107.5°	330.2	325.9	321.5	318.9	317.2	316.3	314.6	312.8	309.3	305.9
110°	331.1	327.6	323.3	320.6	318.9	318.0	315.4	312.8	309.3	306.7



TEST NUMBER: P232490

CATALOG NUMBER: 8SKB1-LD5-6-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	331.9	329.3	325.0	321.5	320.6	318.9	316.3	313.7	310.2	306.7
115°	331.9	329.3	325.9	322.4	321.5	319.8	317.2	313.7	310.2	306.7
117.5°	331.1	329.3	326.7	323.3	321.5	319.8	317.2	313.7	309.3	306.7
120°	328.5	328.5	325.9	323.3	321.5	319.8	316.3	312.8	309.3	305.9
122.5°	324.1	325.9	324.1	321.5	320.6	318.9	316.3	312.0	307.6	305.0
125°	318.0	322.4	321.5	319.8	318.9	317.2	314.6	311.1	306.7	303.3
127.5°	310.2	316.3	318.0	317.2	316.3	315.4	312.0	308.5	305.0	300.7
130°	300.7	308.5	312.0	312.0	312.0	311.1	309.3	305.9	301.5	298.1
132.5°	288.5	298.1	303.3	305.9	305.9	305.9	304.1	301.5	298.1	293.7
135°	274.6	286.8	293.7	297.2	298.1	298.1	298.1	296.3	292.8	289.4
137.5°	258.1	272.0	281.5	286.8	288.5	289.4	290.2	288.5	285.0	281.5
140°	233.7	253.7	265.9	272.9	274.6	277.2	278.9	277.2	274.6	272.0
142.5°	209.4	230.3	247.7	257.2	258.9	261.6	264.2	264.2	261.6	258.9
145°	183.3	204.2	222.5	238.1	240.7	243.3	246.8	248.5	245.9	243.3
147.5°	152.9	174.7	193.8	211.2	219.0	222.5	225.9	227.7	226.8	224.2
150°	120.8	144.2	162.5	179.9	187.7	198.1	202.5	203.3	202.5	199.9
152.5°	73.0	106.9	127.7	145.1	152.1	161.6	173.8	176.4	174.7	172.9
155°	40.8	55.6	78.2	104.3	112.1	120.8	135.6	141.6	140.8	140.8
157.5°	12.2	30.4	41.7	51.3	54.7	60.0	77.3	92.1	96.5	97.3
160°	0.9	0.9	10.4	20.9	26.1	31.3	40.0	45.2	46.1	46.9
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)