

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: P232567

Luminaire Tested: **4SKB1-LD5-5-W-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232567
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-LD5-5-W-UNV-L835-CD1-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

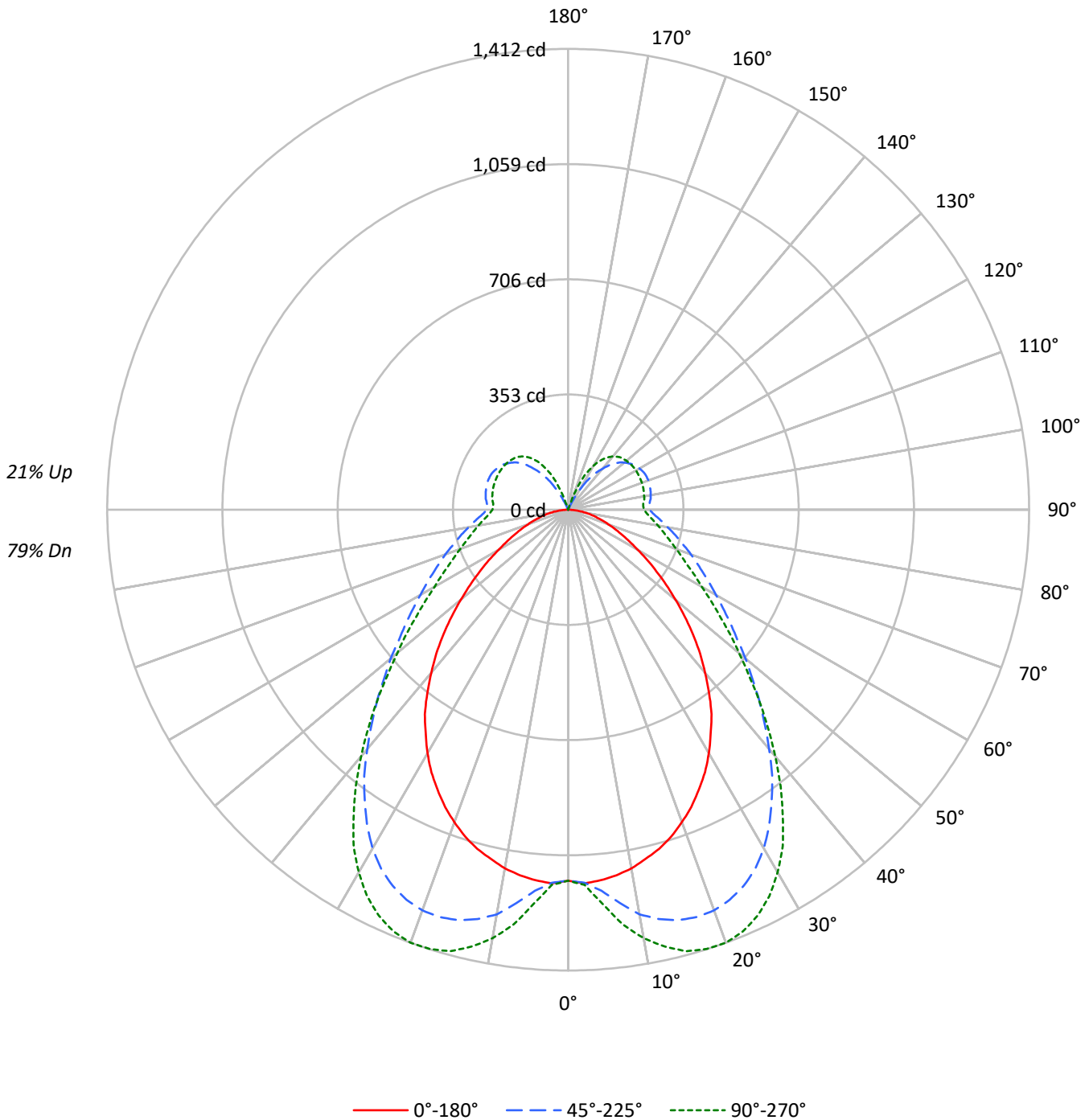
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12233	12233	12233
5°	12239	11761	11884
10°	12044	11919	12086
15°	11760	11749	11891
20°	11368	11348	11354
25°	10873	10723	10559
30°	10276	9890	9527
35°	9572	8849	8284
40°	8633	7752	7007
45°	7657	6713	5809
50°	6605	5808	4787
55°	5610	5048	3980
60°	4710	4474	3361
65°	3987	4027	2935
70°	3427	3695	2633
75°	2916	3413	2416
80°	2386	3208	2271
85°	1603	3081	2163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	2.4
10°-20°	360.7	7.6
20°-30°	565.3	11.9
30°-40°	647.3	13.7
40°-50°	596.2	12.6
50°-60°	489.3	10.3
60°-70°	391.2	8.3
70°-80°	314.2	6.6
80°-90°	250.0	5.3
90°-100°	223.4	4.7
100°-110°	217.6	4.6
110°-120°	197.2	4.2
120°-130°	163.0	3.4
130°-140°	116.9	2.5
140°-150°	65.0	1.4
150°-160°	19.6	0.4
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1040.7	22.0
0°-40°	1688.1	35.7
0°-60°	2773.6	58.6
0°-90°	3729.0	78.8
90°-120°	638.2	13.5
90°-150°	983.0	20.8
90°-180°	1003.0	21.2
0°-180°	4732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1140	1152	1172	1212	1212	108
15°	1076	1185	1302	1384	1401	303
25°	947	1127	1272	1362	1373	435
35°	766	952	1087	1151	1145	476
45°	540	719	828	849	827	416
55°	330	516	606	590	566	298
65°	181	379	455	424	404	182
75°	89	289	350	324	311	96
85°	24	218	275	258	251	26
90°	1	194	249	238	232	2
95°	1	193	250	238	231	1
105°	1	188	260	247	239	1
115°	1	170	259	252	240	1
125°	1	133	242	250	238	1
135°	1	48	201	233	227	1
145°	1	2	123	188	191	0
155°	1	1	19	88	110	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°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1146.0	1141.3	1137.9	1141.3	1142.6	1144.0	1147.4	1146.7	1147.4	1146.0	1144.0
5°	1139.9	1135.8	1134.5	1141.3	1148.1	1151.5	1156.3	1161.0	1165.1	1170.5	1171.9
7.5°	1129.7	1127.7	1129.0	1141.3	1152.2	1160.3	1167.1	1179.4	1191.6	1203.9	1215.5
10°	1116.1	1114.7	1120.9	1139.2	1156.9	1168.5	1180.1	1202.5	1223.6	1242.7	1259.0
12.5°	1095.7	1099.1	1109.3	1133.8	1161.7	1178.0	1196.4	1224.3	1246.8	1268.5	1284.9
15°	1075.9	1078.0	1097.7	1127.0	1159.7	1184.8	1203.9	1239.3	1262.4	1284.9	1301.9
17.5°	1050.1	1054.9	1076.6	1118.1	1158.3	1180.8	1203.9	1231.8	1259.7	1285.6	1308.7
20°	1018.8	1029.0	1058.3	1103.9	1149.4	1171.9	1192.3	1226.4	1254.9	1280.1	1306.7
22.5°	985.4	997.0	1029.7	1084.1	1131.1	1153.5	1173.3	1210.7	1240.0	1265.1	1293.7
25°	946.6	961.6	1000.4	1058.9	1103.9	1127.0	1148.1	1186.2	1216.8	1242.0	1271.9
27.5°	907.2	924.2	966.4	1025.6	1071.9	1093.6	1115.4	1153.5	1184.2	1209.3	1240.6
30°	861.6	880.0	927.6	984.8	1030.4	1054.2	1073.9	1111.3	1144.7	1167.1	1198.4
32.5°	812.6	833.7	884.7	939.8	985.4	1007.9	1027.6	1063.7	1093.6	1117.5	1146.0
35°	765.6	782.6	834.4	888.1	931.7	952.1	975.2	1009.9	1036.5	1061.0	1086.8
37.5°	709.1	729.5	782.0	833.0	876.5	898.3	917.4	949.4	973.9	997.0	1026.3
40°	652.0	674.4	728.9	774.5	819.4	836.4	855.5	884.7	907.9	936.4	957.5
42.5°	598.2	619.3	671.0	717.3	759.5	776.5	794.9	825.5	845.2	869.7	890.8
45°	539.7	561.5	616.6	660.1	700.3	718.7	737.7	762.9	785.4	805.1	827.5
47.5°	483.9	509.7	562.8	603.6	644.5	661.5	677.8	704.4	726.8	747.9	763.6
50°	428.7	456.6	508.4	552.6	591.4	608.4	624.7	651.3	674.4	692.8	709.1
52.5°	378.4	407.6	460.7	507.0	541.7	559.4	575.7	601.6	624.7	641.8	652.6
55°	330.1	362.7	417.9	462.8	497.5	516.5	529.5	556.7	579.8	595.5	605.7
57.5°	287.9	323.9	376.3	422.6	458.7	475.7	491.4	517.2	539.0	554.0	562.1
60°	246.4	286.5	341.0	385.9	422.6	439.0	456.0	481.8	502.2	515.9	523.3
62.5°	211.7	253.8	310.3	353.9	391.3	407.6	422.6	448.5	468.2	481.8	488.0
65°	181.0	225.3	282.4	326.0	362.1	379.1	394.7	421.3	439.6	452.6	455.3
67.5°	154.5	199.4	257.2	300.1	337.6	353.2	368.9	395.4	413.1	424.0	426.0
70°	130.7	176.3	234.1	277.0	313.7	330.7	346.4	370.2	388.6	397.4	400.2
72.5°	108.9	156.5	212.3	256.6	293.3	309.0	323.9	349.1	366.1	374.3	373.6
75°	89.2	138.2	194.0	237.5	272.2	288.6	303.5	328.0	345.0	351.8	350.5
77.5°	72.1	122.5	176.3	218.5	253.8	270.2	283.8	308.3	323.9	331.4	330.1
80°	54.4	105.5	159.2	200.8	236.2	251.1	266.1	289.2	304.9	312.4	309.0
82.5°	39.5	89.8	143.6	184.4	219.1	234.8	248.4	272.2	287.2	293.3	291.3
85°	23.8	74.2	126.6	168.8	203.5	218.5	233.4	255.9	270.9	277.0	274.9
87.5°	10.2	59.9	112.3	154.5	189.2	204.2	218.5	240.9	255.2	261.3	259.3
90°	1.4	50.4	103.4	145.0	179.0	194.0	208.2	230.7	245.0	251.1	249.1
92.5°	0.7	48.3	100.7	142.2	176.3	191.9	205.5	228.7	243.6	249.1	248.4
95°	0.7	44.9	99.4	142.2	176.9	192.6	206.9	230.0	245.0	251.1	250.4
97.5°	0.7	40.2	97.3	141.6	177.6	194.0	208.2	232.7	248.4	255.2	254.5
100°	0.7	32.7	93.2	139.5	176.3	193.3	207.6	232.7	249.1	256.6	256.6
102.5°	0.7	22.5	88.5	136.1	174.9	191.2	206.2	232.1	249.1	257.2	258.6
105°	0.7	13.6	82.3	132.0	171.5	188.5	204.2	230.7	248.4	257.9	260.0
107.5°	0.7	8.8	74.9	127.3	168.1	185.8	201.4	228.7	247.0	257.9	260.7
110°	0.7	7.5	65.3	121.8	163.3	181.0	197.4	225.9	245.0	257.2	261.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.7	6.1	50.4	114.3	157.9	176.3	193.3	221.2	242.3	254.5	260.7
115°	0.7	4.8	32.7	105.5	151.1	170.1	187.2	216.4	237.5	251.8	259.3
117.5°	0.7	4.1	21.1	95.3	143.6	162.7	180.3	210.3	232.7	247.7	256.6
120°	0.7	3.4	8.8	81.7	134.1	154.5	172.2	202.1	225.9	242.3	252.5
122.5°	0.7	2.7	6.8	61.2	123.2	144.3	162.7	194.0	217.8	236.2	247.0
125°	0.7	2.7	5.4	39.5	109.6	132.7	152.4	184.4	209.6	228.7	241.6
127.5°	0.7	2.0	4.8	26.5	93.2	119.1	140.2	173.5	199.4	219.1	233.4
130°	0.7	2.0	4.1	11.6	69.4	102.1	125.2	160.6	187.8	208.9	224.6
132.5°	0.7	1.4	3.4	4.8	42.9	78.9	106.2	144.3	174.2	196.7	214.4
135°	0.7	1.4	2.7	4.1	28.6	48.3	83.0	125.9	156.5	180.3	200.8
137.5°	0.7	1.4	2.0	3.4	11.6	32.0	51.0	105.5	137.5	162.7	183.7
140°	0.7	1.4	2.0	2.7	3.4	15.0	34.7	80.3	116.4	143.6	164.0
142.5°	0.7	1.4	2.0	2.0	2.7	3.4	17.0	47.0	93.2	122.5	145.0
145°	0.7	0.7	1.4	2.0	2.0	2.0	2.7	32.0	60.6	99.4	123.2
147.5°	0.7	0.7	1.4	1.4	2.0	2.0	2.0	12.9	37.4	70.1	99.4
150°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	19.1	38.1	67.4
152.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.0	21.8	37.4
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	19.1
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5	1136.5
2.5°	1147.4	1153.5	1156.3	1159.0	1159.7	1160.3	1159.0	1158.3	1153.5	1150.8
5°	1181.4	1196.4	1202.5	1211.4	1212.1	1212.7	1216.8	1214.8	1215.5	1212.1
7.5°	1231.1	1252.9	1262.4	1274.0	1276.7	1280.1	1286.9	1287.6	1286.9	1282.2
10°	1277.4	1295.8	1310.1	1320.9	1325.0	1327.8	1335.9	1338.0	1336.6	1333.2
12.5°	1305.3	1329.1	1343.4	1359.1	1363.1	1367.2	1374.0	1377.4	1373.3	1371.3
15°	1329.1	1354.3	1365.9	1382.9	1383.6	1391.0	1402.6	1404.0	1401.9	1400.6
17.5°	1335.2	1361.1	1378.1	1393.1	1398.5	1403.3	1410.1	1415.5	1416.2	1410.8
20°	1333.9	1358.4	1378.8	1394.4	1400.6	1404.0	1412.8	1416.9	1414.9	1412.1
22.5°	1323.0	1347.5	1367.9	1381.5	1387.0	1392.4	1400.6	1404.0	1404.0	1398.5
25°	1300.5	1325.0	1342.7	1357.0	1361.8	1367.2	1375.4	1377.4	1376.1	1372.7
27.5°	1268.5	1290.3	1308.0	1320.3	1325.0	1329.8	1338.6	1340.7	1338.0	1334.6
30°	1221.6	1244.0	1261.7	1272.6	1276.7	1280.1	1285.6	1290.3	1286.2	1282.8
32.5°	1170.5	1191.0	1203.2	1213.4	1216.1	1218.9	1224.3	1226.4	1222.3	1222.9
35°	1110.7	1128.4	1142.6	1149.4	1150.8	1150.1	1152.9	1153.5	1154.2	1145.4
37.5°	1045.3	1061.0	1067.8	1077.3	1075.3	1078.7	1081.4	1078.7	1071.9	1068.5
40°	975.2	985.4	997.0	1000.4	998.4	1003.1	1001.8	997.0	989.5	986.8
42.5°	905.8	917.4	921.5	924.2	922.1	922.8	920.1	918.7	911.3	905.1
45°	839.8	848.0	850.0	849.3	849.3	845.9	842.5	837.1	830.3	826.9
47.5°	775.1	780.6	781.3	777.9	775.1	771.1	771.7	762.2	754.0	750.0
50°	715.3	717.3	715.3	709.1	707.8	703.0	700.3	692.8	685.3	683.3
52.5°	661.5	660.8	656.7	649.9	647.2	642.4	637.7	630.9	623.4	623.4
55°	609.1	607.1	601.6	594.1	590.0	588.0	581.9	574.4	568.9	565.5
57.5°	563.5	559.4	552.6	545.8	540.4	534.9	530.8	525.4	518.6	517.2
60°	522.7	514.5	508.4	500.9	496.8	492.0	486.6	482.5	477.1	471.6
62.5°	484.6	477.7	469.6	462.1	458.0	453.9	448.5	442.4	439.0	437.6
65°	451.2	444.4	434.9	427.4	424.0	419.9	415.8	409.0	407.0	403.6
67.5°	421.3	412.4	403.6	396.8	393.4	392.0	387.9	383.8	379.1	376.3
70°	393.4	384.5	376.3	371.6	367.5	366.1	362.7	357.3	353.9	351.8
72.5°	366.8	359.3	352.5	345.7	343.0	342.3	339.6	335.5	332.1	330.1
75°	344.4	336.9	330.1	326.7	323.9	321.9	320.5	316.5	314.4	311.0
77.5°	324.6	315.8	309.7	306.2	304.2	302.8	301.5	299.4	296.7	294.7
80°	303.5	296.7	292.0	288.6	287.2	285.8	284.5	283.1	281.1	279.0
82.5°	285.8	279.7	275.6	272.9	272.9	271.5	270.9	269.5	267.5	264.7
85°	268.8	263.4	260.0	258.6	257.9	257.2	256.6	255.2	253.2	251.1
87.5°	254.5	250.4	247.0	246.4	246.4	245.7	245.0	244.3	242.3	240.2
90°	245.0	240.9	238.9	238.2	237.5	237.5	237.5	236.2	234.1	232.1
92.5°	243.6	239.6	237.5	236.2	236.2	236.2	236.2	234.8	232.7	230.0
95°	245.7	241.6	239.6	238.2	237.5	237.5	236.8	235.5	233.4	230.7
97.5°	250.4	246.4	243.6	241.6	240.9	240.9	240.2	238.9	236.8	234.8
100°	253.2	249.1	246.4	244.3	243.6	243.0	242.3	240.9	238.9	236.2
102.5°	255.2	251.1	247.7	246.4	245.7	245.0	243.6	242.3	240.2	237.5
105°	256.6	253.2	250.4	247.7	247.0	246.4	245.0	243.6	240.9	238.9
107.5°	258.6	255.2	251.8	249.8	248.4	247.7	246.4	245.0	242.3	239.6
110°	259.3	256.6	253.2	251.1	249.8	249.1	247.0	245.0	242.3	240.2



TEST NUMBER: P232567

CATALOG NUMBER: 4SKB1-LD5-5-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	260.0	257.9	254.5	251.8	251.1	249.8	247.7	245.7	243.0	240.2
115°	260.0	257.9	255.2	252.5	251.8	250.4	248.4	245.7	243.0	240.2
117.5°	259.3	257.9	255.9	253.2	251.8	250.4	248.4	245.7	242.3	240.2
120°	257.2	257.2	255.2	253.2	251.8	250.4	247.7	245.0	242.3	239.6
122.5°	253.8	255.2	253.8	251.8	251.1	249.8	247.7	244.3	240.9	238.9
125°	249.1	252.5	251.8	250.4	249.8	248.4	246.4	243.6	240.2	237.5
127.5°	243.0	247.7	249.1	248.4	247.7	247.0	244.3	241.6	238.9	235.5
130°	235.5	241.6	244.3	244.3	244.3	243.6	242.3	239.6	236.2	233.4
132.5°	225.9	233.4	237.5	239.6	239.6	239.6	238.2	236.2	233.4	230.0
135°	215.1	224.6	230.0	232.7	233.4	233.4	233.4	232.1	229.3	226.6
137.5°	202.1	213.0	220.5	224.6	225.9	226.6	227.3	225.9	223.2	220.5
140°	183.1	198.7	208.2	213.7	215.1	217.1	218.5	217.1	215.1	213.0
142.5°	164.0	180.3	194.0	201.4	202.8	204.8	206.9	206.9	204.8	202.8
145°	143.6	159.9	174.2	186.5	188.5	190.6	193.3	194.6	192.6	190.6
147.5°	119.8	136.8	151.8	165.4	171.5	174.2	176.9	178.3	177.6	175.6
150°	94.6	113.0	127.3	140.9	147.0	155.2	158.6	159.2	158.6	156.5
152.5°	57.2	83.7	100.0	113.7	119.1	126.6	136.1	138.2	136.8	135.4
155°	32.0	43.6	61.2	81.7	87.8	94.6	106.2	110.9	110.2	110.2
157.5°	9.5	23.8	32.7	40.2	42.9	47.0	60.6	72.1	75.5	76.2
160°	0.7	0.7	8.2	16.3	20.4	24.5	31.3	35.4	36.1	36.7
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)