

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: P232570

Luminaire Tested: **4SKB1-LD5-6-W-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232570
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-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: 5660.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

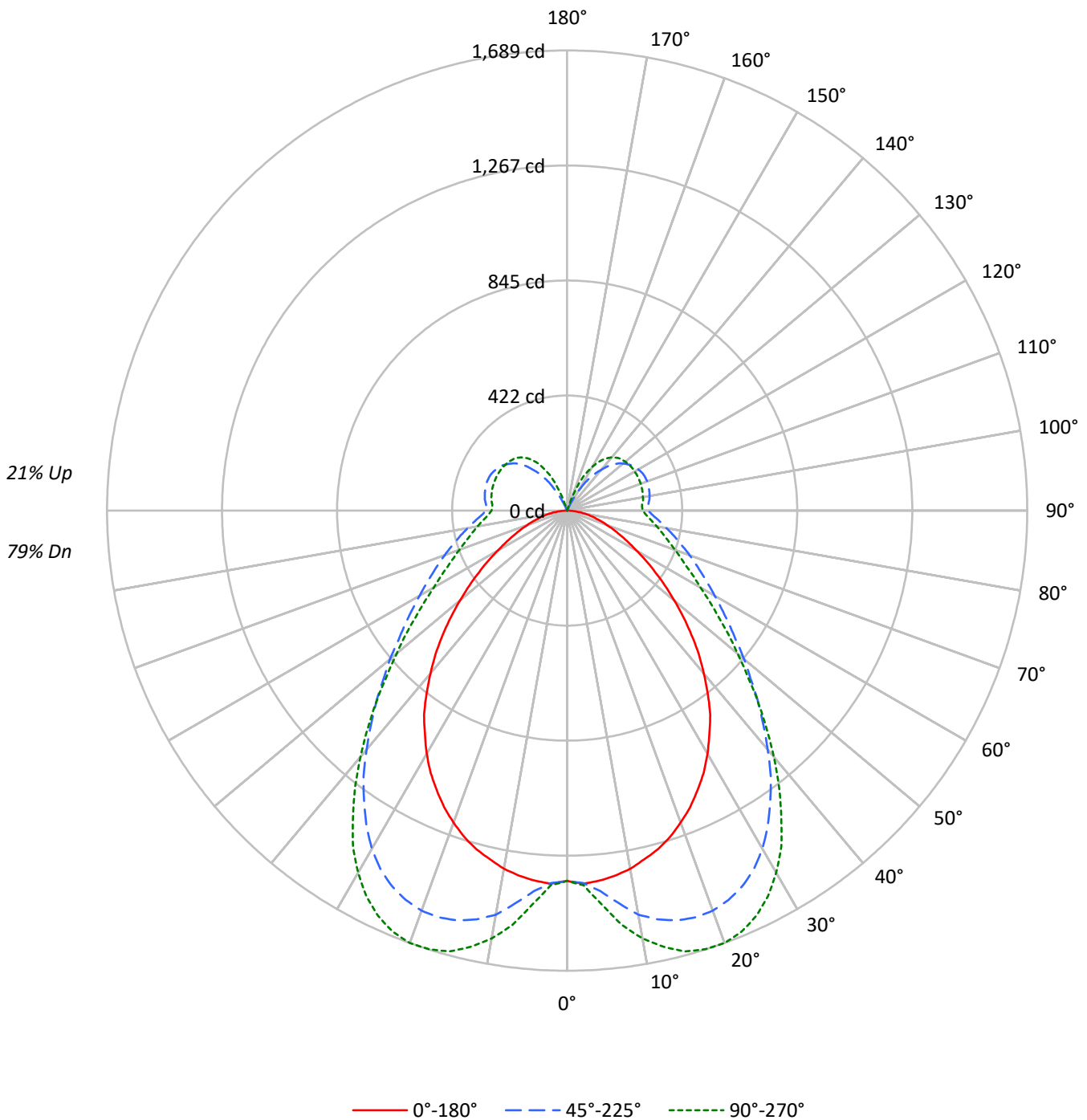
Input Watts (W): 47.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14632	14632	14632
5°	14639	14067	14214
10°	14406	14256	14456
15°	14067	14052	14222
20°	13598	13572	13581
25°	13006	12826	12629
30°	12291	11830	11395
35°	11449	10585	9908
40°	10325	9273	8380
45°	9158	8029	6948
50°	7901	6947	5725
55°	6710	6038	4761
60°	5633	5352	4020
65°	4768	4817	3511
70°	4098	4419	3149
75°	3485	4082	2889
80°	2855	3837	2716
85°	1920	3686	2588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.4
10°-20°	431.5	7.6
20°-30°	676.1	11.9
30°-40°	774.3	13.7
40°-50°	713.1	12.6
50°-60°	585.2	10.3
60°-70°	467.9	8.3
70°-80°	375.9	6.6
80°-90°	299.0	5.3
90°-100°	267.2	4.7
100°-110°	260.3	4.6
110°-120°	235.9	4.2
120°-130°	194.9	3.4
130°-140°	139.8	2.5
140°-150°	77.7	1.4
150°-160°	23.4	0.4
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1244.9	22.0
0°-40°	2019.1	35.7
0°-60°	3317.5	58.6
0°-90°	4460.3	78.8
90°-120°	763.4	13.5
90°-150°	1175.8	20.8
90°-180°	1200.0	21.2
0°-180°	5660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1364	1377	1402	1450	1450	129
15°	1287	1417	1557	1655	1675	362
25°	1132	1348	1521	1629	1642	521
35°	916	1139	1300	1376	1370	569
45°	646	860	990	1016	989	498
55°	395	618	724	706	676	356
65°	216	453	545	507	483	218
75°	107	345	419	388	372	114
85°	28	261	329	308	300	31
90°	2	232	298	284	278	2
95°	1	230	300	284	276	1
105°	1	226	311	296	286	1
115°	1	204	310	301	287	1
125°	1	159	289	299	284	1
135°	1	58	240	279	271	1
145°	1	2	147	226	228	1
155°	1	1	23	105	132	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°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4
2.5°	1370.8	1365.1	1361.0	1365.1	1366.7	1368.4	1372.4	1371.6	1372.4	1370.8	1368.4
5°	1363.5	1358.6	1357.0	1365.1	1373.2	1377.3	1383.0	1388.7	1393.6	1400.1	1401.7
7.5°	1351.3	1348.8	1350.4	1365.1	1378.1	1387.9	1396.0	1410.7	1425.3	1440.0	1453.8
10°	1335.0	1333.4	1340.7	1362.7	1383.8	1397.7	1411.5	1438.4	1463.6	1486.4	1505.9
12.5°	1310.6	1314.6	1326.8	1356.1	1389.5	1409.1	1431.0	1464.4	1491.3	1517.3	1536.9
15°	1287.0	1289.4	1313.0	1348.0	1387.1	1417.2	1440.0	1482.3	1510.0	1536.9	1557.2
17.5°	1256.0	1261.7	1287.8	1337.4	1385.5	1412.3	1440.0	1473.4	1506.7	1537.7	1565.3
20°	1218.6	1230.8	1265.8	1320.3	1374.9	1401.7	1426.2	1466.9	1501.0	1531.2	1562.9
22.5°	1178.7	1192.5	1231.6	1296.7	1352.9	1379.8	1403.4	1448.1	1483.1	1513.3	1547.4
25°	1132.3	1150.2	1196.6	1266.6	1320.3	1348.0	1373.2	1418.8	1455.5	1485.6	1521.4
27.5°	1085.1	1105.4	1155.9	1226.7	1282.1	1308.1	1334.2	1379.8	1416.4	1446.5	1483.9
30°	1030.5	1052.5	1109.5	1177.9	1232.4	1260.9	1284.5	1329.3	1369.2	1396.0	1433.5
32.5°	971.9	997.2	1058.2	1124.2	1178.7	1205.6	1229.2	1272.3	1308.1	1336.6	1370.8
35°	915.8	936.1	998.0	1062.3	1114.4	1138.8	1166.5	1208.0	1239.7	1269.0	1300.0
37.5°	848.2	872.6	935.3	996.4	1048.4	1074.5	1097.3	1135.5	1164.9	1192.5	1227.5
40°	779.8	806.7	871.8	926.3	980.1	1000.4	1023.2	1058.2	1085.9	1120.1	1145.3
42.5°	715.5	740.8	802.6	858.0	908.4	928.8	950.8	987.4	1011.0	1040.3	1065.5
45°	645.5	671.6	737.5	789.6	837.6	859.6	882.4	912.5	939.4	963.0	989.8
47.5°	578.8	609.7	673.2	722.0	770.9	791.2	810.8	842.5	869.4	894.6	913.3
50°	512.8	546.2	608.1	661.0	707.4	727.7	747.3	779.0	806.7	828.7	848.2
52.5°	452.6	487.6	551.1	606.4	648.0	669.1	688.7	719.6	747.3	767.6	780.6
55°	394.8	433.9	499.8	553.5	595.0	617.8	633.3	665.9	693.5	712.3	724.5
57.5°	344.3	387.5	450.1	505.5	548.6	569.0	587.7	618.7	644.7	662.6	672.4
60°	294.7	342.7	407.8	461.5	505.5	525.0	545.4	576.3	600.7	617.0	626.0
62.5°	253.2	303.6	371.2	423.3	468.1	487.6	505.5	536.4	560.0	576.3	583.6
65°	216.5	269.4	337.8	389.9	433.1	453.4	472.1	503.9	525.9	541.3	544.6
67.5°	184.8	238.5	307.7	359.0	403.8	422.5	441.2	472.9	494.1	507.1	509.6
70°	156.3	210.8	280.0	331.3	375.3	395.6	414.3	442.8	464.8	475.4	478.6
72.5°	130.2	187.2	254.0	306.9	350.8	369.6	387.5	417.6	437.9	447.7	446.9
75°	106.6	165.2	232.0	284.1	325.6	345.1	363.1	392.4	412.7	420.8	419.2
77.5°	86.3	146.5	210.8	261.3	303.6	323.2	339.4	368.7	387.5	396.4	394.8
80°	65.1	126.2	190.5	240.1	282.5	300.4	318.3	346.0	364.7	373.6	369.6
82.5°	47.2	107.4	171.8	220.6	262.1	280.8	297.1	325.6	343.5	350.8	348.4
85°	28.5	88.7	151.4	201.9	243.4	261.3	279.2	306.1	324.0	331.3	328.9
87.5°	12.2	71.6	134.3	184.8	226.3	244.2	261.3	288.2	305.3	312.6	310.1
90°	1.6	60.2	123.7	173.4	214.1	232.0	249.1	276.0	293.0	300.4	297.9
92.5°	0.8	57.8	120.5	170.1	210.8	229.6	245.8	273.5	291.4	297.9	297.1
95°	0.8	53.7	118.8	170.1	211.6	230.4	247.5	275.1	293.0	300.4	299.6
97.5°	0.8	48.0	116.4	169.3	212.5	232.0	249.1	278.4	297.1	305.3	304.4
100°	0.8	39.1	111.5	166.9	210.8	231.2	248.3	278.4	297.9	306.9	306.9
102.5°	0.8	26.9	105.8	162.8	209.2	228.7	246.6	277.6	297.9	307.7	309.3
105°	0.8	16.3	98.5	157.9	205.1	225.5	244.2	276.0	297.1	308.5	311.0
107.5°	0.8	10.6	89.5	152.2	201.1	222.2	240.9	273.5	295.5	308.5	311.8
110°	0.8	9.0	78.1	145.7	195.4	216.5	236.1	270.3	293.0	307.7	312.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	7.3	60.2	136.8	188.9	210.8	231.2	264.6	289.8	304.4	311.8
115°	0.8	5.7	39.1	126.2	180.7	203.5	223.9	258.9	284.1	301.2	310.1
117.5°	0.8	4.9	25.2	114.0	171.8	194.5	215.7	251.5	278.4	296.3	306.9
120°	0.8	4.1	10.6	97.7	160.4	184.8	205.9	241.8	270.3	289.8	302.0
122.5°	0.8	3.3	8.1	73.3	147.3	172.6	194.5	232.0	260.5	282.5	295.5
125°	0.8	3.3	6.5	47.2	131.1	158.7	182.3	220.6	250.7	273.5	289.0
127.5°	0.8	2.4	5.7	31.7	111.5	142.5	167.7	207.6	238.5	262.1	279.2
130°	0.8	2.4	4.9	13.8	83.0	122.1	149.8	192.1	224.7	249.9	268.6
132.5°	0.8	1.6	4.1	5.7	51.3	94.4	127.0	172.6	208.4	235.2	256.4
135°	0.8	1.6	3.3	4.9	34.2	57.8	99.3	150.6	187.2	215.7	240.1
137.5°	0.8	1.6	2.4	4.1	13.8	38.3	61.1	126.2	164.4	194.5	219.8
140°	0.8	1.6	2.4	3.3	4.1	17.9	41.5	96.1	139.2	171.8	196.2
142.5°	0.8	1.6	2.4	2.4	3.3	4.1	20.4	56.2	111.5	146.5	173.4
145°	0.8	0.8	1.6	2.4	2.4	2.4	3.3	38.3	72.4	118.8	147.3
147.5°	0.8	0.8	1.6	1.6	2.4	2.4	2.4	15.5	44.8	83.8	118.8
150°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	22.8	45.6	80.6
152.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.4	26.0	44.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	22.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4
2.5°	1372.4	1379.8	1383.0	1386.3	1387.1	1387.9	1386.3	1385.5	1379.8	1376.5
5°	1413.1	1431.0	1438.4	1448.9	1449.8	1450.6	1455.5	1453.0	1453.8	1449.8
7.5°	1472.6	1498.6	1510.0	1523.8	1527.1	1531.2	1539.3	1540.1	1539.3	1533.6
10°	1527.9	1549.9	1567.0	1580.0	1584.9	1588.1	1597.9	1600.4	1598.7	1594.7
12.5°	1561.3	1589.8	1606.9	1625.6	1630.5	1635.4	1643.5	1647.6	1642.7	1640.2
15°	1589.8	1619.9	1633.7	1654.1	1654.9	1663.8	1677.7	1679.3	1676.9	1675.2
17.5°	1597.1	1628.0	1648.4	1666.3	1672.8	1678.5	1686.6	1693.1	1694.0	1687.5
20°	1595.5	1624.8	1649.2	1667.9	1675.2	1679.3	1689.9	1694.8	1692.3	1689.1
22.5°	1582.4	1611.7	1636.2	1652.4	1659.0	1665.5	1675.2	1679.3	1679.3	1672.8
25°	1555.6	1584.9	1606.0	1623.1	1628.8	1635.4	1645.1	1647.6	1645.9	1641.9
27.5°	1517.3	1543.4	1564.5	1579.2	1584.9	1590.6	1601.2	1603.6	1600.4	1596.3
30°	1461.2	1488.0	1509.2	1522.2	1527.1	1531.2	1537.7	1543.4	1538.5	1534.4
32.5°	1400.1	1424.5	1439.2	1451.4	1454.6	1457.9	1464.4	1466.9	1462.0	1462.8
35°	1328.5	1349.6	1366.7	1374.9	1376.5	1375.7	1378.9	1379.8	1380.6	1370.0
37.5°	1250.3	1269.0	1277.2	1288.6	1286.1	1290.2	1293.5	1290.2	1282.1	1278.0
40°	1166.5	1178.7	1192.5	1196.6	1194.2	1199.9	1198.2	1192.5	1183.6	1180.3
42.5°	1083.5	1097.3	1102.2	1105.4	1103.0	1103.8	1100.5	1098.9	1090.0	1082.6
45°	1004.5	1014.3	1016.7	1015.9	1015.9	1011.8	1007.7	1001.2	993.1	989.0
47.5°	927.2	933.7	934.5	930.4	927.2	922.3	923.1	911.7	901.9	897.0
50°	855.5	858.0	855.5	848.2	846.6	840.9	837.6	828.7	819.7	817.3
52.5°	791.2	790.4	785.5	777.4	774.1	768.4	762.7	754.6	745.6	745.6
55°	728.5	726.1	719.6	710.6	705.7	703.3	696.0	687.0	680.5	676.4
57.5°	674.0	669.1	661.0	652.8	646.3	639.8	634.9	628.4	620.3	618.7
60°	625.2	615.4	608.1	599.1	594.2	588.5	582.0	577.1	570.6	564.1
62.5°	579.6	571.4	561.7	552.7	547.8	542.9	536.4	529.1	525.0	523.4
65°	539.7	531.6	520.2	511.2	507.1	502.2	497.4	489.2	486.8	482.7
67.5°	503.9	493.3	482.7	474.6	470.5	468.9	464.0	459.1	453.4	450.1
70°	470.5	459.9	450.1	444.5	439.6	437.9	433.9	427.4	423.3	420.8
72.5°	438.8	429.8	421.7	413.5	410.3	409.4	406.2	401.3	397.2	394.8
75°	411.9	402.9	394.8	390.7	387.5	385.0	383.4	378.5	376.1	372.0
77.5°	388.3	377.7	370.4	366.3	363.9	362.2	360.6	358.2	354.9	352.5
80°	363.1	354.9	349.2	345.1	343.5	341.9	340.3	338.6	336.2	333.7
82.5°	341.9	334.6	329.7	326.4	326.4	324.8	324.0	322.3	319.9	316.7
85°	321.5	315.0	311.0	309.3	308.5	307.7	306.9	305.3	302.8	300.4
87.5°	304.4	299.6	295.5	294.7	294.7	293.9	293.0	292.2	289.8	287.3
90°	293.0	288.2	285.7	284.9	284.1	284.1	284.1	282.5	280.0	277.6
92.5°	291.4	286.5	284.1	282.5	282.5	282.5	282.5	280.8	278.4	275.1
95°	293.9	289.0	286.5	284.9	284.1	284.1	283.3	281.6	279.2	276.0
97.5°	299.6	294.7	291.4	289.0	288.2	288.2	287.3	285.7	283.3	280.8
100°	302.8	297.9	294.7	292.2	291.4	290.6	289.8	288.2	285.7	282.5
102.5°	305.3	300.4	296.3	294.7	293.9	293.0	291.4	289.8	287.3	284.1
105°	306.9	302.8	299.6	296.3	295.5	294.7	293.0	291.4	288.2	285.7
107.5°	309.3	305.3	301.2	298.7	297.1	296.3	294.7	293.0	289.8	286.5
110°	310.1	306.9	302.8	300.4	298.7	297.9	295.5	293.0	289.8	287.3



TEST NUMBER: P232570

CATALOG NUMBER: 4SKB1-LD5-6-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	311.0	308.5	304.4	301.2	300.4	298.7	296.3	293.9	290.6	287.3
115°	311.0	308.5	305.3	302.0	301.2	299.6	297.1	293.9	290.6	287.3
117.5°	310.1	308.5	306.1	302.8	301.2	299.6	297.1	293.9	289.8	287.3
120°	307.7	307.7	305.3	302.8	301.2	299.6	296.3	293.0	289.8	286.5
122.5°	303.6	305.3	303.6	301.2	300.4	298.7	296.3	292.2	288.2	285.7
125°	297.9	302.0	301.2	299.6	298.7	297.1	294.7	291.4	287.3	284.1
127.5°	290.6	296.3	297.9	297.1	296.3	295.5	292.2	289.0	285.7	281.6
130°	281.6	289.0	292.2	292.2	292.2	291.4	289.8	286.5	282.5	279.2
132.5°	270.3	279.2	284.1	286.5	286.5	286.5	284.9	282.5	279.2	275.1
135°	257.2	268.6	275.1	278.4	279.2	279.2	279.2	277.6	274.3	271.1
137.5°	241.8	254.8	263.7	268.6	270.3	271.1	271.9	270.3	267.0	263.7
140°	219.0	237.7	249.1	255.6	257.2	259.7	261.3	259.7	257.2	254.8
142.5°	196.2	215.7	232.0	240.9	242.6	245.0	247.5	247.5	245.0	242.6
145°	171.8	191.3	208.4	223.0	225.5	227.9	231.2	232.8	230.4	227.9
147.5°	143.3	163.6	181.5	197.8	205.1	208.4	211.6	213.3	212.5	210.0
150°	113.1	135.1	152.2	168.5	175.8	185.6	189.7	190.5	189.7	187.2
152.5°	68.4	100.1	119.7	135.9	142.5	151.4	162.8	165.2	163.6	162.0
155°	38.3	52.1	73.3	97.7	105.0	113.1	127.0	132.7	131.9	131.9
157.5°	11.4	28.5	39.1	48.0	51.3	56.2	72.4	86.3	90.4	91.2
160°	0.8	0.8	9.8	19.5	24.4	29.3	37.4	42.3	43.1	44.0
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)