

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: P#

Luminaire Tested: **8SKB1-LD5-6-W-RS-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-6)  
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-RS-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

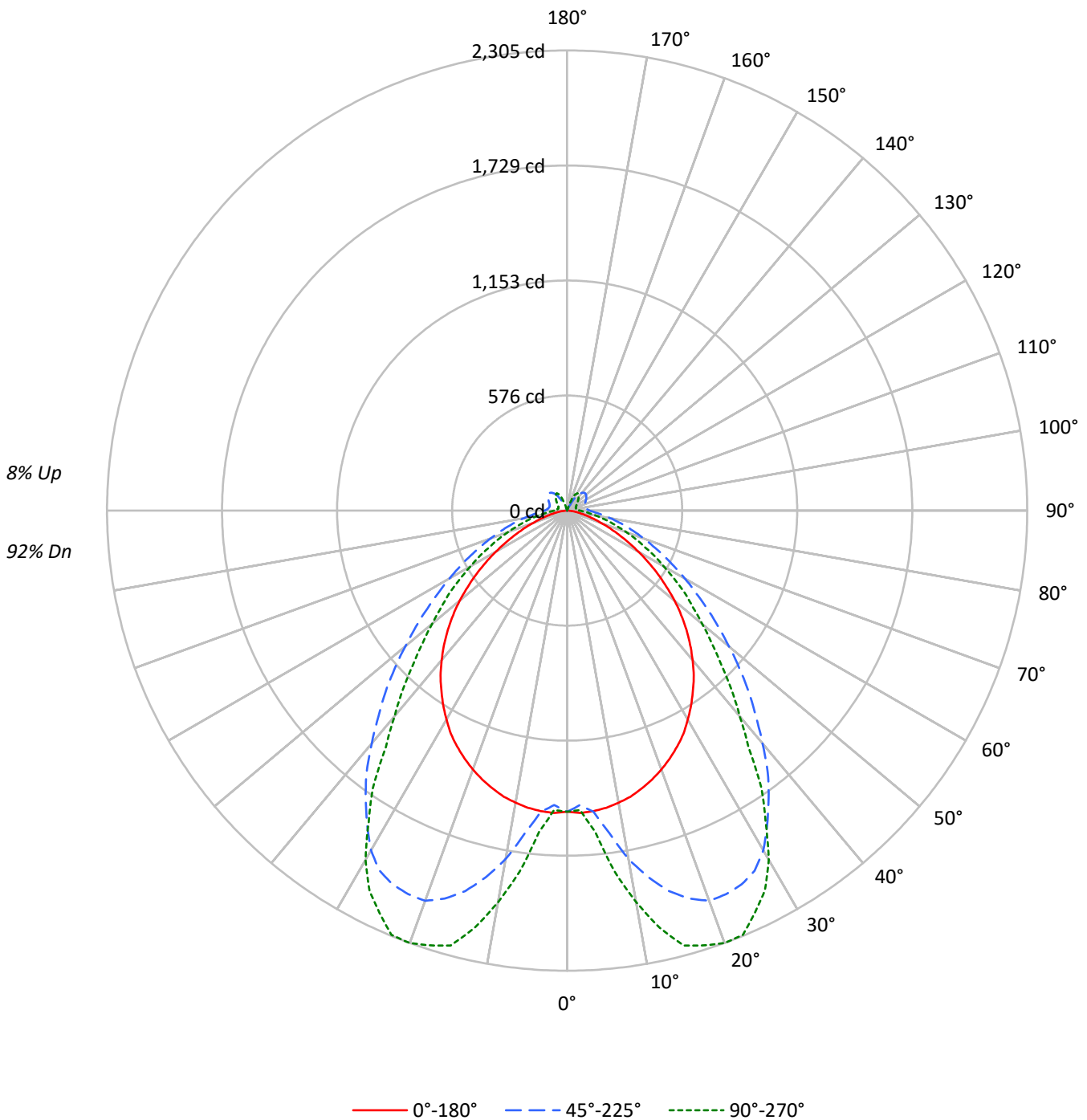
Lumens per Lamp: N/A  
Luminaire Lumens: 5478.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	107	103	98	95	104	99	96	92	94	91	88	88	86	84	84	82	80	77
2	98	90	84	78	95	88	82	77	83	78	74	78	74	71	74	71	68	65
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	66	62	58	56
4	83	71	63	56	80	69	62	56	66	59	54	63	57	52	60	55	51	48
5	76	64	55	49	74	62	54	48	59	52	47	56	51	46	54	49	45	42
6	70	58	49	43	68	56	48	42	54	47	41	51	45	40	49	44	40	37
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8120	8120	8120
5°	8137	7612	7922
10°	8068	8422	9025
15°	7954	8951	9574
20°	7804	9096	9266
25°	7613	8787	8551
30°	7354	8190	7501
35°	7040	7245	6141
40°	6664	6245	4776
45°	6205	5298	3831
50°	5640	4399	3092
55°	4956	3620	2531
60°	4172	2966	1996
65°	3356	2405	1547
70°	2582	1922	1179
75°	1924	1519	854
80°	1348	1170	605
85°	806	882	414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	2.8
10°-20°	537.5	9.8
20°-30°	884.9	16.2
30°-40°	994.1	18.1
40°-50°	884.6	16.1
50°-60°	684.1	12.5
60°-70°	464.6	8.5
70°-80°	277.2	5.1
80°-90°	148.7	2.7
90°-100°	97.9	1.8
100°-110°	83.0	1.5
110°-120°	76.8	1.4
120°-130°	71.5	1.3
130°-140°	60.7	1.1
140°-150°	41.4	0.8
150°-160°	16.0	0.3
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1576.8	28.8
0°-40°	2570.9	46.9
0°-60°	4139.6	75.6
0°-90°	5030.2	91.8
90°-120°	257.7	4.7
90°-150°	431.3	7.9
90°-180°	448.0	8.2
0°-180°	5478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1511	1490	1514	1595	1616	143
15°	1441	1619	1973	2219	2255	406
25°	1304	1674	2067	2229	2224	600
35°	1099	1508	1760	1743	1698	687
45°	845	1165	1288	1178	1091	650
55°	556	794	855	776	719	496
65°	284	494	534	481	426	286
75°	105	298	305	263	220	115
85°	18	187	153	120	96	23
90°	2	159	112	81	63	2
95°	1	154	98	69	52	0
105°	1	140	90	58	45	0
115°	1	129	101	64	50	1
125°	1	106	117	78	61	1
135°	1	41	125	100	78	1
145°	1	4	97	113	98	0
155°	1	2	22	75	83	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1516.1	1510.2	1499.9	1499.1	1492.5	1489.5	1490.3	1488.0	1485.8	1482.1	1476.2
5°	1511.0	1499.9	1482.9	1482.9	1486.6	1490.3	1499.1	1507.3	1509.5	1514.7	1513.9
7.5°	1501.3	1484.3	1468.1	1481.4	1494.7	1499.9	1510.2	1525.0	1548.0	1590.1	1631.6
10°	1485.8	1462.9	1457.7	1479.2	1496.9	1512.4	1536.1	1604.9	1668.6	1731.5	1772.2
12.5°	1468.1	1439.9	1447.3	1474.7	1516.1	1545.7	1606.4	1697.4	1747.8	1821.0	1880.9
15°	1441.4	1414.8	1428.1	1468.8	1555.4	1619.0	1653.0	1764.0	1844.7	1905.4	1972.7
17.5°	1412.6	1388.9	1407.4	1479.2	1596.8	1658.2	1713.0	1806.9	1884.6	1974.2	2037.8
20°	1380.7	1360.0	1383.7	1492.5	1616.8	1679.7	1740.4	1829.9	1932.7	2025.2	2080.0
22.5°	1343.7	1325.2	1361.5	1498.4	1624.2	1687.1	1746.3	1850.6	1957.2	2033.4	2080.0
25°	1303.8	1285.3	1334.9	1486.6	1616.8	1674.5	1738.1	1861.7	1949.0	2009.0	2066.7
27.5°	1260.9	1240.1	1314.9	1462.1	1587.2	1652.3	1724.1	1840.2	1909.1	1975.7	2034.1
30°	1208.3	1189.8	1280.1	1426.6	1545.7	1622.7	1684.1	1788.4	1854.3	1920.2	1965.3
32.5°	1155.8	1138.0	1237.9	1376.3	1498.4	1570.9	1630.1	1711.5	1786.2	1837.3	1865.4
35°	1098.8	1078.8	1189.1	1314.9	1445.1	1508.0	1557.6	1631.6	1694.5	1732.2	1759.6
37.5°	1041.8	1020.4	1126.9	1250.5	1374.8	1432.5	1474.0	1548.7	1596.8	1627.9	1650.8
40°	977.5	955.3	1062.6	1178.0	1301.6	1342.3	1385.2	1451.8	1487.3	1512.4	1523.5
42.5°	912.4	890.2	993.0	1101.8	1212.0	1252.0	1296.4	1348.9	1383.7	1398.5	1398.5
45°	845.0	823.6	921.2	1026.3	1119.5	1165.4	1204.6	1246.8	1275.7	1287.5	1288.2
47.5°	774.7	757.0	850.2	945.7	1033.0	1072.9	1103.3	1144.0	1169.1	1172.1	1171.3
50°	702.9	687.4	771.0	865.0	942.7	978.2	1004.8	1042.6	1062.6	1061.8	1058.1
52.5°	627.5	617.9	695.5	781.4	851.7	883.5	907.2	940.5	956.7	956.7	953.8
55°	555.7	549.8	617.1	700.0	765.8	794.0	816.2	845.8	859.1	859.1	854.6
57.5°	483.2	482.4	545.3	619.3	682.2	707.4	731.1	757.0	768.8	768.8	761.4
60°	412.1	415.8	478.0	546.1	603.8	628.2	648.9	674.1	681.5	683.0	681.5
62.5°	346.3	355.9	415.1	477.3	535.0	555.7	574.2	598.6	604.5	606.8	603.1
65°	284.1	298.9	358.9	418.1	472.1	493.5	509.8	526.8	532.0	534.2	533.5
67.5°	233.1	248.6	308.6	367.0	416.6	433.6	449.9	464.7	465.4	469.1	466.2
70°	180.5	204.2	264.2	319.7	366.3	381.8	395.1	405.5	407.7	408.5	407.7
72.5°	139.1	167.2	224.2	279.0	321.1	335.9	346.3	354.4	354.4	355.2	353.0
75°	105.1	139.1	194.6	244.9	282.7	297.5	305.6	310.8	307.8	307.1	304.9
77.5°	76.2	115.4	168.0	215.3	250.8	261.9	269.3	270.1	265.6	264.9	260.5
80°	52.5	94.0	145.0	189.4	222.0	233.1	236.8	233.8	230.1	225.7	219.8
82.5°	34.8	76.2	125.8	168.0	198.3	207.2	210.1	205.7	200.5	193.1	183.5
85°	18.5	61.4	109.5	150.2	179.1	187.2	188.7	180.5	172.4	162.8	153.2
87.5°	8.1	50.3	97.7	138.4	163.5	169.4	170.2	161.3	150.9	139.8	128.0
90°	1.5	42.9	90.3	129.5	153.9	159.1	159.1	147.2	136.9	125.1	111.7
92.5°	0.7	40.7	88.1	126.5	150.9	156.1	155.4	142.8	130.2	116.9	103.6
95°	0.7	35.5	82.9	123.6	148.7	153.9	153.2	139.8	126.5	112.5	97.7
97.5°	0.7	29.6	77.7	118.4	145.0	150.2	150.2	137.6	124.3	109.5	94.0
100°	0.0	22.9	71.8	113.2	139.8	146.5	147.2	135.4	121.4	106.6	91.8
102.5°	0.0	15.5	66.6	108.8	136.2	142.8	144.3	134.7	119.9	105.1	90.3
105°	0.7	9.6	59.9	103.6	132.5	139.8	142.1	133.9	119.1	105.1	90.3
107.5°	0.7	6.7	53.3	98.4	129.5	137.6	140.6	133.9	119.9	105.8	91.8
110°	0.7	5.9	45.1	93.2	125.8	134.7	139.1	134.7	121.4	108.0	94.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.7	4.4	34.0	86.6	121.4	131.7	137.6	135.4	123.6	110.3	96.9
115°	0.7	3.7	22.9	79.9	116.9	128.8	136.2	136.2	125.8	113.2	100.6
117.5°	0.7	3.7	15.5	71.0	111.7	125.1	133.2	136.9	128.8	116.2	105.1
120°	0.7	3.0	7.4	60.7	105.1	119.9	130.2	136.9	131.0	119.9	108.8
122.5°	0.7	3.0	5.9	46.6	97.7	114.0	125.8	136.2	133.2	122.8	113.2
125°	0.7	2.2	5.2	31.1	88.1	105.8	119.9	133.9	133.9	125.8	116.9
127.5°	0.7	2.2	4.4	22.2	75.5	96.9	111.7	130.2	133.9	128.0	120.6
130°	0.7	2.2	3.7	6.7	57.7	84.4	102.1	124.3	132.5	129.5	122.8
132.5°	0.7	1.5	3.7	5.2	37.0	65.9	88.8	114.7	128.0	129.5	125.1
135°	0.7	1.5	3.0	4.4	26.6	40.7	71.0	102.9	119.9	125.1	125.1
137.5°	0.7	1.5	3.0	3.7	11.8	30.3	44.4	88.8	109.5	119.1	121.4
140°	0.7	1.5	2.2	3.0	4.4	16.3	31.8	70.3	96.9	110.3	116.2
142.5°	0.7	1.5	2.2	3.0	3.7	3.7	19.2	40.7	81.4	98.4	108.0
145°	0.7	1.5	1.5	2.2	3.0	3.7	3.7	31.1	58.5	84.4	96.9
147.5°	0.7	0.7	1.5	2.2	3.0	3.0	3.0	14.1	34.8	64.4	82.9
150°	0.7	0.7	1.5	1.5	2.2	2.2	3.0	3.0	22.9	36.3	61.4
152.5°	0.7	0.7	1.5	1.5	2.2	2.2	2.2	3.0	3.0	24.4	34.0
155°	0.7	0.7	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3.0	21.5
157.5°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	2.2	2.2	3.0	3.0
160°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	3.0
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°	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1483.6	1494.7	1494.7	1504.3	1509.5	1508.0	1509.5	1512.4	1503.6	1500.6
5°	1530.2	1552.4	1563.5	1588.7	1594.6	1605.7	1609.4	1622.0	1624.9	1616.0
7.5°	1676.7	1722.6	1752.2	1782.5	1795.8	1802.5	1814.3	1822.5	1835.1	1825.4
10°	1814.3	1869.8	1912.0	1945.3	1953.5	1960.1	1974.2	1994.2	1992.7	1991.2
12.5°	1933.5	1982.3	2034.1	2082.2	2106.6	2111.8	2132.5	2156.9	2161.4	2141.4
15°	2031.9	2100.0	2158.4	2209.5	2219.1	2232.4	2248.0	2256.1	2252.4	2255.4
17.5°	2114.0	2171.7	2213.2	2240.6	2246.5	2256.8	2270.9	2281.3	2282.7	2283.5
20°	2146.6	2185.1	2225.0	2262.8	2274.6	2285.0	2302.0	2310.9	2309.4	2304.9
22.5°	2140.7	2196.9	2233.9	2265.0	2276.8	2286.4	2301.2	2307.2	2304.9	2300.5
25°	2131.8	2179.9	2212.4	2228.7	2228.7	2236.1	2232.4	2228.0	2222.8	2223.5
27.5°	2089.6	2117.7	2139.9	2158.4	2160.6	2161.4	2159.2	2154.7	2151.8	2145.1
30°	2003.8	2037.8	2048.2	2046.7	2043.7	2043.0	2034.1	2027.5	2019.3	2020.1
32.5°	1903.1	1910.5	1915.0	1902.4	1895.0	1893.5	1885.4	1874.3	1863.2	1851.3
35°	1773.7	1768.5	1758.1	1749.2	1743.3	1734.4	1722.6	1711.5	1697.4	1698.2
37.5°	1648.6	1632.3	1617.5	1593.1	1588.7	1567.9	1545.0	1527.2	1504.3	1491.7
40°	1518.4	1502.1	1483.6	1457.0	1445.1	1425.9	1400.7	1371.1	1352.6	1345.2
42.5°	1394.1	1374.1	1352.6	1320.8	1306.0	1290.5	1263.8	1235.0	1221.7	1219.4
45°	1272.7	1249.8	1229.0	1193.5	1178.0	1159.5	1132.1	1114.4	1095.1	1090.7
47.5°	1155.8	1135.8	1104.0	1076.6	1061.8	1046.3	1018.2	1001.9	987.8	982.6
50°	1042.6	1023.3	998.9	968.6	954.5	939.7	919.8	904.2	887.9	882.8
52.5°	941.2	922.0	896.8	873.1	859.1	850.2	831.7	813.9	801.4	793.2
55°	843.5	825.8	802.8	780.6	775.5	763.6	742.2	726.6	718.5	719.2
57.5°	754.0	738.5	720.7	699.2	691.1	680.0	666.0	647.5	637.8	634.9
60°	672.6	657.8	643.0	626.7	616.4	608.2	589.0	574.2	561.6	560.1
62.5°	594.9	583.8	571.2	555.0	546.1	537.2	520.2	506.1	496.5	493.5
65°	527.6	518.0	503.2	489.8	481.0	472.1	455.8	441.7	433.6	425.5
67.5°	461.0	452.8	441.7	427.7	419.5	410.7	396.6	381.1	371.5	369.2
70°	401.8	392.9	384.0	369.2	361.8	356.7	341.1	325.6	318.2	315.2
72.5°	350.7	341.1	328.5	318.2	313.7	304.1	289.3	279.0	269.3	263.4
75°	297.5	291.5	282.7	270.8	262.7	256.0	244.2	233.8	225.7	219.8
77.5°	253.8	246.4	239.0	227.2	221.2	215.3	202.7	193.9	185.7	182.8
80°	213.1	206.4	196.1	187.2	182.0	176.8	167.2	157.6	151.7	148.7
82.5°	176.1	170.2	162.0	154.6	148.7	145.0	136.2	128.0	122.8	118.4
85°	145.8	138.4	131.0	124.3	119.9	116.9	110.3	104.3	97.7	96.2
87.5°	119.9	114.0	107.3	100.6	97.7	94.0	88.1	83.6	78.4	76.2
90°	102.9	95.5	89.5	84.4	81.4	79.2	74.7	68.8	65.1	62.9
92.5°	93.2	86.6	81.4	76.2	74.0	71.8	66.6	62.2	58.5	55.5
95°	87.3	80.7	75.5	71.0	68.8	67.3	62.9	58.5	54.8	52.5
97.5°	82.9	75.5	70.3	66.6	64.4	62.9	59.2	55.5	51.8	49.6
100°	79.2	71.8	66.6	62.9	61.4	59.9	56.2	52.5	49.6	47.4
102.5°	77.7	69.6	64.4	61.4	59.9	58.5	54.8	51.8	48.1	45.9
105°	77.7	68.8	63.6	59.9	58.5	57.0	54.0	51.1	47.4	45.1
107.5°	79.2	69.6	63.6	60.7	59.2	57.7	54.0	51.1	47.4	45.1
110°	81.4	71.8	65.1	61.4	59.9	58.5	54.8	51.8	48.1	45.9





TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-6-W-RS-UNV-L835-CD1-RS-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	84.4	74.0	67.3	62.9	61.4	59.9	56.2	53.3	49.6	47.4
115°	88.1	77.0	70.3	65.1	63.6	62.2	58.5	54.8	51.8	49.6
117.5°	92.5	81.4	73.3	68.1	66.6	64.4	60.7	57.0	54.0	51.8
120°	96.9	86.6	77.7	71.8	69.6	67.3	63.6	59.9	56.2	54.0
122.5°	102.1	91.0	82.1	76.2	74.0	71.8	67.3	63.6	59.9	57.0
125°	107.3	96.9	87.3	80.7	77.7	75.5	71.0	66.6	63.6	60.7
127.5°	111.7	102.1	92.5	85.8	82.9	79.9	75.5	71.0	67.3	65.1
130°	115.4	107.3	98.4	91.0	88.1	85.8	79.9	75.5	71.8	69.6
132.5°	119.1	111.7	104.3	96.9	94.0	91.0	85.8	80.7	77.0	74.0
135°	121.4	115.4	109.5	102.9	99.9	96.2	91.0	85.8	81.4	78.4
137.5°	121.4	118.4	113.2	108.0	105.1	102.1	96.2	91.0	86.6	84.4
140°	117.7	118.4	116.2	112.5	109.5	107.3	102.1	96.2	91.8	89.5
142.5°	112.5	114.7	116.2	114.0	112.5	111.0	106.6	101.4	96.9	94.0
145°	104.3	108.8	111.7	114.0	113.2	112.5	108.8	105.1	100.6	97.7
147.5°	94.0	100.6	104.3	109.5	111.0	111.0	109.5	106.6	102.9	100.6
150°	79.2	88.8	95.5	100.6	102.9	105.8	105.8	103.6	101.4	99.2
152.5°	56.2	71.8	81.4	88.8	91.8	94.7	98.4	96.9	94.0	92.5
155°	31.8	39.2	59.2	71.0	74.7	78.4	84.4	85.8	85.1	82.9
157.5°	16.3	26.6	33.3	38.5	40.7	46.6	58.5	66.6	65.9	67.3
160°	3.7	4.4	12.6	23.7	26.6	28.1	31.1	33.3	33.3	31.8
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)