

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-LD5-8-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-LD5-8-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**

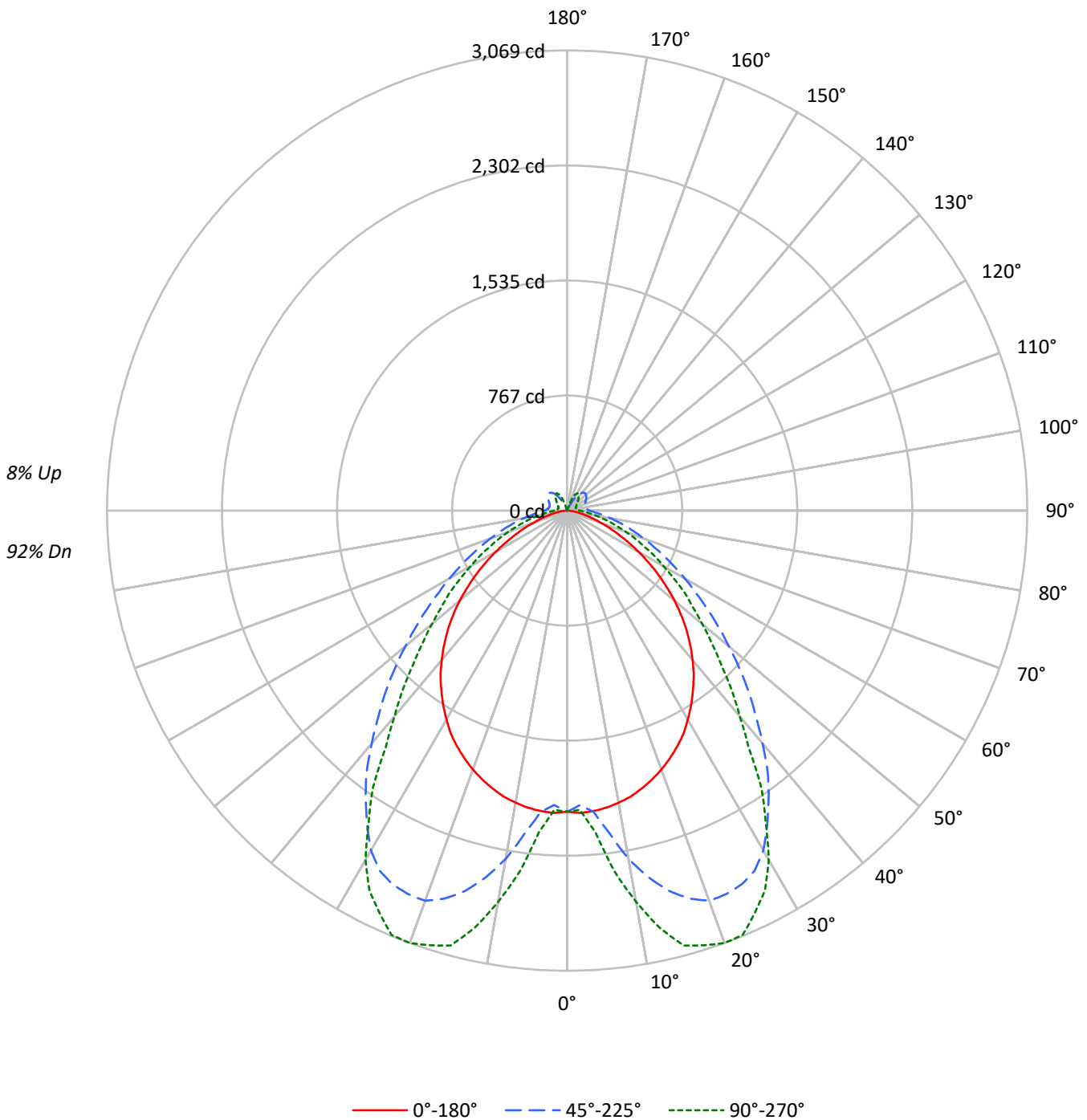
Lumens per Lamp: N/A  
Luminaire Lumens: 7293.0 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 59.5  
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°	10810	10810	10810
5°	10833	10134	10547
10°	10741	11212	12015
15°	10589	11917	12745
20°	10390	12110	12336
25°	10135	11698	11385
30°	9791	10904	9986
35°	9372	9645	8175
40°	8871	8315	6358
45°	8261	7053	5101
50°	7510	5857	4116
55°	6598	4820	3370
60°	5555	3948	2657
65°	4468	3203	2060
70°	3438	2559	1570
75°	2561	2022	1136
80°	1795	1557	806
85°	1072	1174	552



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.6	2.8
10°-20°	715.5	9.8
20°-30°	1178.0	16.2
30°-40°	1323.5	18.1
40°-50°	1177.7	16.1
50°-60°	910.8	12.5
60°-70°	618.5	8.5
70°-80°	369.1	5.1
80°-90°	198.0	2.7
90°-100°	130.3	1.8
100°-110°	110.5	1.5
110°-120°	102.2	1.4
120°-130°	95.2	1.3
130°-140°	80.8	1.1
140°-150°	55.2	0.8
150°-160°	21.3	0.3
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	2099.2	28.8
0°-40°	3422.7	46.9
0°-60°	5511.2	75.6
0°-90°	6696.8	91.8
90°-120°	343.0	4.7
90°-150°	574.2	7.9
90°-180°	596.0	8.2
0°-180°	7293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2012	1984	2016	2123	2152	191
15°	1919	2155	2626	2954	3003	541
25°	1736	2229	2751	2967	2960	798
35°	1463	2008	2343	2321	2261	914
45°	1125	1552	1715	1568	1452	865
55°	740	1057	1138	1032	958	661
65°	378	657	710	640	566	381
75°	140	396	406	350	293	153
85°	25	249	204	160	128	30
90°	2	212	149	108	84	2
95°	1	205	130	92	70	1
105°	1	186	120	78	60	1
115°	1	171	134	85	66	1
125°	1	141	156	103	81	1
135°	1	54	166	133	104	1
145°	1	5	129	151	130	1
155°	1	3	29	100	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°	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6
2.5°	2018.5	2010.6	1996.8	1995.8	1987.0	1983.0	1984.0	1981.1	1978.1	1973.2	1965.3
5°	2011.6	1996.8	1974.2	1974.2	1979.1	1984.0	1995.8	2006.7	2009.6	2016.5	2015.5
7.5°	1998.8	1976.1	1954.5	1972.2	1989.9	1996.8	2010.6	2030.3	2060.8	2117.0	2172.2
10°	1978.1	1947.6	1940.7	1969.2	1992.9	2013.6	2045.1	2136.7	2221.4	2305.2	2359.3
12.5°	1954.5	1917.0	1926.9	1963.3	2018.5	2057.9	2138.7	2259.8	2326.8	2424.4	2504.1
15°	1919.0	1883.5	1901.3	1955.4	2070.7	2155.4	2200.7	2348.5	2455.9	2536.7	2626.3
17.5°	1880.6	1849.0	1873.7	1969.2	2125.9	2207.6	2280.5	2405.6	2509.1	2628.3	2713.0
20°	1838.2	1810.6	1842.2	1987.0	2152.5	2236.2	2317.0	2436.2	2573.1	2696.2	2769.1
22.5°	1789.0	1764.3	1812.6	1994.8	2162.3	2246.0	2324.9	2463.8	2605.6	2707.1	2769.1
25°	1735.8	1711.1	1777.1	1979.1	2152.5	2229.3	2314.0	2478.5	2594.8	2674.6	2751.4
27.5°	1678.6	1651.0	1750.5	1946.6	2113.1	2199.7	2295.3	2450.0	2541.6	2630.2	2708.1
30°	1608.7	1584.1	1704.2	1899.3	2057.9	2160.3	2242.1	2381.0	2468.7	2556.4	2616.4
32.5°	1538.7	1515.1	1648.1	1832.3	1994.8	2091.4	2170.2	2278.6	2378.1	2446.0	2483.5
35°	1462.9	1436.3	1583.1	1750.5	1923.9	2007.7	2073.7	2172.2	2255.9	2306.1	2342.6
37.5°	1387.0	1358.5	1500.3	1664.8	1830.3	1907.2	1962.3	2061.8	2125.9	2167.2	2197.8
40°	1301.3	1271.8	1414.6	1568.3	1732.8	1787.0	1844.1	1932.8	1980.1	2013.6	2028.3
42.5°	1214.6	1185.1	1322.0	1466.8	1613.6	1666.8	1725.9	1795.9	1842.2	1861.9	1861.9
45°	1125.0	1096.4	1226.5	1366.3	1490.5	1551.5	1603.8	1659.9	1698.3	1714.1	1715.1
47.5°	1031.4	1007.8	1131.9	1259.0	1375.2	1428.4	1468.8	1523.0	1556.5	1560.4	1559.4
50°	935.9	915.2	1026.5	1151.6	1255.0	1302.3	1337.8	1388.0	1414.6	1413.6	1408.7
52.5°	835.4	822.6	926.0	1040.3	1133.9	1176.2	1207.7	1252.1	1273.7	1273.7	1269.8
55°	739.8	731.9	821.6	931.9	1019.6	1057.0	1086.6	1126.0	1143.7	1143.7	1137.8
57.5°	643.3	642.3	726.0	824.5	908.3	941.8	973.3	1007.8	1023.5	1023.5	1013.7
60°	548.7	553.6	636.4	727.0	803.8	836.4	863.9	897.4	907.3	909.3	907.3
62.5°	461.0	473.8	552.6	635.4	712.2	739.8	764.4	797.0	804.8	807.8	802.9
65°	378.3	398.0	477.8	556.6	628.5	657.1	678.7	701.4	708.3	711.2	710.3
67.5°	310.3	331.0	410.8	488.6	554.6	577.3	598.9	618.6	619.6	624.6	620.6
70°	240.4	271.9	351.7	425.6	487.6	508.3	526.0	539.8	542.8	543.8	542.8
72.5°	185.2	222.6	298.5	371.4	427.5	447.2	461.0	471.9	471.9	472.9	469.9
75°	139.9	185.2	259.1	326.1	376.3	396.0	406.8	413.7	409.8	408.8	405.9
77.5°	101.5	153.7	223.6	286.7	334.0	348.7	358.6	359.6	353.7	352.7	346.8
80°	69.9	125.1	193.1	252.2	295.5	310.3	315.2	311.3	306.4	300.5	292.6
82.5°	46.3	101.5	167.5	223.6	264.0	275.8	279.8	273.9	267.0	257.1	244.3
85°	24.6	81.8	145.8	200.0	238.4	249.2	251.2	240.4	229.5	216.7	203.9
87.5°	10.8	67.0	130.0	184.2	217.7	225.6	226.6	214.8	201.0	186.2	170.4
90°	2.0	57.1	120.2	172.4	204.9	211.8	211.8	196.0	182.2	166.5	148.8
92.5°	1.0	54.2	117.2	168.5	201.0	207.9	206.9	190.1	173.4	155.6	137.9
95°	1.0	47.3	110.3	164.5	198.0	204.9	203.9	186.2	168.5	149.7	130.0
97.5°	1.0	39.4	103.4	157.6	193.1	200.0	200.0	183.2	165.5	145.8	125.1
100°	0.0	30.5	95.6	150.7	186.2	195.1	196.0	180.3	161.6	141.9	122.2
102.5°	0.0	20.7	88.7	144.8	181.3	190.1	192.1	179.3	159.6	139.9	120.2
105°	1.0	12.8	79.8	137.9	176.3	186.2	189.1	178.3	158.6	139.9	120.2
107.5°	1.0	8.9	70.9	131.0	172.4	183.2	187.2	178.3	159.6	140.9	122.2
110°	1.0	7.9	60.1	124.1	167.5	179.3	185.2	179.3	161.6	143.8	125.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	5.9	45.3	115.3	161.6	175.3	183.2	180.3	164.5	146.8	129.0
115°	1.0	4.9	30.5	106.4	155.6	171.4	181.3	181.3	167.5	150.7	134.0
117.5°	1.0	4.9	20.7	94.6	148.8	166.5	177.3	182.2	171.4	154.7	139.9
120°	1.0	3.9	9.9	80.8	139.9	159.6	173.4	182.2	174.4	159.6	144.8
122.5°	1.0	3.9	7.9	62.1	130.0	151.7	167.5	181.3	177.3	163.5	150.7
125°	1.0	3.0	6.9	41.4	117.2	140.9	159.6	178.3	178.3	167.5	155.6
127.5°	1.0	3.0	5.9	29.6	100.5	129.0	148.8	173.4	178.3	170.4	160.6
130°	1.0	3.0	4.9	8.9	76.8	112.3	135.9	165.5	176.3	172.4	163.5
132.5°	1.0	2.0	4.9	6.9	49.3	87.7	118.2	152.7	170.4	172.4	166.5
135°	1.0	2.0	3.9	5.9	35.5	54.2	94.6	136.9	159.6	166.5	166.5
137.5°	1.0	2.0	3.9	4.9	15.8	40.4	59.1	118.2	145.8	158.6	161.6
140°	1.0	2.0	3.0	3.9	5.9	21.7	42.4	93.6	129.0	146.8	154.7
142.5°	1.0	2.0	3.0	3.9	4.9	4.9	25.6	54.2	108.4	131.0	143.8
145°	1.0	2.0	2.0	3.0	3.9	4.9	4.9	41.4	77.8	112.3	129.0
147.5°	1.0	1.0	2.0	3.0	3.9	3.9	3.9	18.7	46.3	85.7	110.3
150°	1.0	1.0	2.0	2.0	3.0	3.0	3.9	3.9	30.5	48.3	81.8
152.5°	1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.9	3.9	32.5	45.3
155°	1.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.9	28.6
157.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.9	3.9
160°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.9
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°	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6
2.5°	1975.1	1989.9	1989.9	2002.7	2009.6	2007.7	2009.6	2013.6	2001.7	1997.8
5°	2037.2	2066.8	2081.5	2115.0	2122.9	2137.7	2142.6	2159.4	2163.3	2151.5
7.5°	2232.3	2293.3	2332.7	2373.1	2390.9	2399.7	2415.5	2426.3	2443.1	2430.3
10°	2415.5	2489.4	2545.5	2589.9	2600.7	2609.6	2628.3	2654.9	2652.9	2650.9
12.5°	2574.1	2639.1	2708.1	2772.1	2804.6	2811.5	2839.1	2871.6	2877.5	2850.9
15°	2705.1	2795.7	2873.6	2941.5	2954.3	2972.1	2992.8	3003.6	2998.7	3002.6
17.5°	2814.5	2891.3	2946.5	2982.9	2990.8	3004.6	3023.3	3037.1	3039.1	3040.0
20°	2857.8	2909.0	2962.2	3012.5	3028.2	3042.0	3064.7	3076.5	3074.5	3068.6
22.5°	2849.9	2924.8	2974.0	3015.4	3031.2	3044.0	3063.7	3071.6	3068.6	3062.7
25°	2838.1	2902.1	2945.5	2967.1	2967.1	2977.0	2972.1	2966.2	2959.3	2960.3
27.5°	2781.9	2819.4	2848.9	2873.6	2876.5	2877.5	2874.5	2868.6	2864.7	2855.8
30°	2667.7	2713.0	2726.8	2724.8	2720.9	2719.9	2708.1	2699.2	2688.4	2689.3
32.5°	2533.7	2543.6	2549.5	2532.7	2522.9	2520.9	2510.1	2495.3	2480.5	2464.7
35°	2361.3	2354.4	2340.6	2328.8	2320.9	2309.1	2293.3	2278.6	2259.8	2260.8
37.5°	2194.8	2173.1	2153.4	2120.9	2115.0	2087.4	2056.9	2033.3	2002.7	1986.0
40°	2021.4	1999.8	1975.1	1939.7	1923.9	1898.3	1864.8	1825.4	1800.8	1790.9
42.5°	1855.9	1829.3	1800.8	1758.4	1738.7	1718.0	1682.6	1644.1	1626.4	1623.5
45°	1694.4	1663.8	1636.3	1589.0	1568.3	1543.7	1507.2	1483.6	1458.0	1452.0
47.5°	1538.7	1512.1	1469.8	1433.3	1413.6	1392.9	1355.5	1333.8	1315.1	1308.2
50°	1388.0	1362.4	1329.9	1289.5	1270.8	1251.1	1224.5	1203.8	1182.1	1175.2
52.5°	1253.1	1227.4	1194.0	1162.4	1143.7	1131.9	1107.3	1083.6	1066.9	1056.0
55°	1123.0	1099.4	1068.8	1039.3	1032.4	1016.6	988.1	967.4	956.5	957.5
57.5°	1003.8	983.1	959.5	930.9	920.1	905.3	886.6	862.0	849.2	845.2
60°	895.5	875.8	856.1	834.4	820.6	809.8	784.1	764.4	747.7	745.7
62.5°	792.0	777.3	760.5	738.8	727.0	715.2	692.5	673.8	661.0	657.1
65°	702.4	689.6	669.9	652.1	640.3	628.5	606.8	588.1	577.3	566.4
67.5°	613.7	602.9	588.1	569.4	558.6	546.7	528.0	507.3	494.5	491.6
70°	534.9	523.1	511.3	491.6	481.7	474.8	454.1	433.4	423.6	419.7
72.5°	466.9	454.1	437.4	423.6	417.7	404.9	385.2	371.4	358.6	350.7
75°	396.0	388.1	376.3	360.5	349.7	340.8	325.1	311.3	300.5	292.6
77.5°	337.9	328.0	318.2	302.4	294.5	286.7	269.9	258.1	247.3	243.3
80°	283.7	274.8	261.1	249.2	242.3	235.4	222.6	209.8	201.9	198.0
82.5°	234.5	226.6	215.7	205.9	198.0	193.1	181.3	170.4	163.5	157.6
85°	194.1	184.2	174.4	165.5	159.6	155.6	146.8	138.9	130.0	128.1
87.5°	159.6	151.7	142.8	134.0	130.0	125.1	117.2	111.3	104.4	101.5
90°	136.9	127.1	119.2	112.3	108.4	105.4	99.5	91.6	86.7	83.7
92.5°	124.1	115.3	108.4	101.5	98.5	95.6	88.7	82.7	77.8	73.9
95°	116.2	107.4	100.5	94.6	91.6	89.6	83.7	77.8	72.9	69.9
97.5°	110.3	100.5	93.6	88.7	85.7	83.7	78.8	73.9	69.0	66.0
100°	105.4	95.6	88.7	83.7	81.8	79.8	74.9	69.9	66.0	63.0
102.5°	103.4	92.6	85.7	81.8	79.8	77.8	72.9	69.0	64.0	61.1
105°	103.4	91.6	84.7	79.8	77.8	75.9	71.9	68.0	63.0	60.1
107.5°	105.4	92.6	84.7	80.8	78.8	76.8	71.9	68.0	63.0	60.1
110°	108.4	95.6	86.7	81.8	79.8	77.8	72.9	69.0	64.0	61.1





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	112.3	98.5	89.6	83.7	81.8	79.8	74.9	70.9	66.0	63.0
115°	117.2	102.5	93.6	86.7	84.7	82.7	77.8	72.9	69.0	66.0
117.5°	123.1	108.4	97.5	90.6	88.7	85.7	80.8	75.9	71.9	69.0
120°	129.0	115.3	103.4	95.6	92.6	89.6	84.7	79.8	74.9	71.9
122.5°	135.9	121.2	109.3	101.5	98.5	95.6	89.6	84.7	79.8	75.9
125°	142.8	129.0	116.2	107.4	103.4	100.5	94.6	88.7	84.7	80.8
127.5°	148.8	135.9	123.1	114.3	110.3	106.4	100.5	94.6	89.6	86.7
130°	153.7	142.8	131.0	121.2	117.2	114.3	106.4	100.5	95.6	92.6
132.5°	158.6	148.8	138.9	129.0	125.1	121.2	114.3	107.4	102.5	98.5
135°	161.6	153.7	145.8	136.9	133.0	128.1	121.2	114.3	108.4	104.4
137.5°	161.6	157.6	150.7	143.8	139.9	135.9	128.1	121.2	115.3	112.3
140°	156.6	157.6	154.7	149.7	145.8	142.8	135.9	128.1	122.2	119.2
142.5°	149.7	152.7	154.7	151.7	149.7	147.8	141.9	135.0	129.0	125.1
145°	138.9	144.8	148.8	151.7	150.7	149.7	144.8	139.9	134.0	130.0
147.5°	125.1	134.0	138.9	145.8	147.8	147.8	145.8	141.9	136.9	134.0
150°	105.4	118.2	127.1	134.0	136.9	140.9	140.9	137.9	135.0	132.0
152.5°	74.9	95.6	108.4	118.2	122.2	126.1	131.0	129.0	125.1	123.1
155°	42.4	52.2	78.8	94.6	99.5	104.4	112.3	114.3	113.3	110.3
157.5°	21.7	35.5	44.3	51.2	54.2	62.1	77.8	88.7	87.7	89.6
160°	4.9	5.9	16.7	31.5	35.5	37.4	41.4	44.3	44.3	42.4
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)