

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-LD5-10-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-LD5-10-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

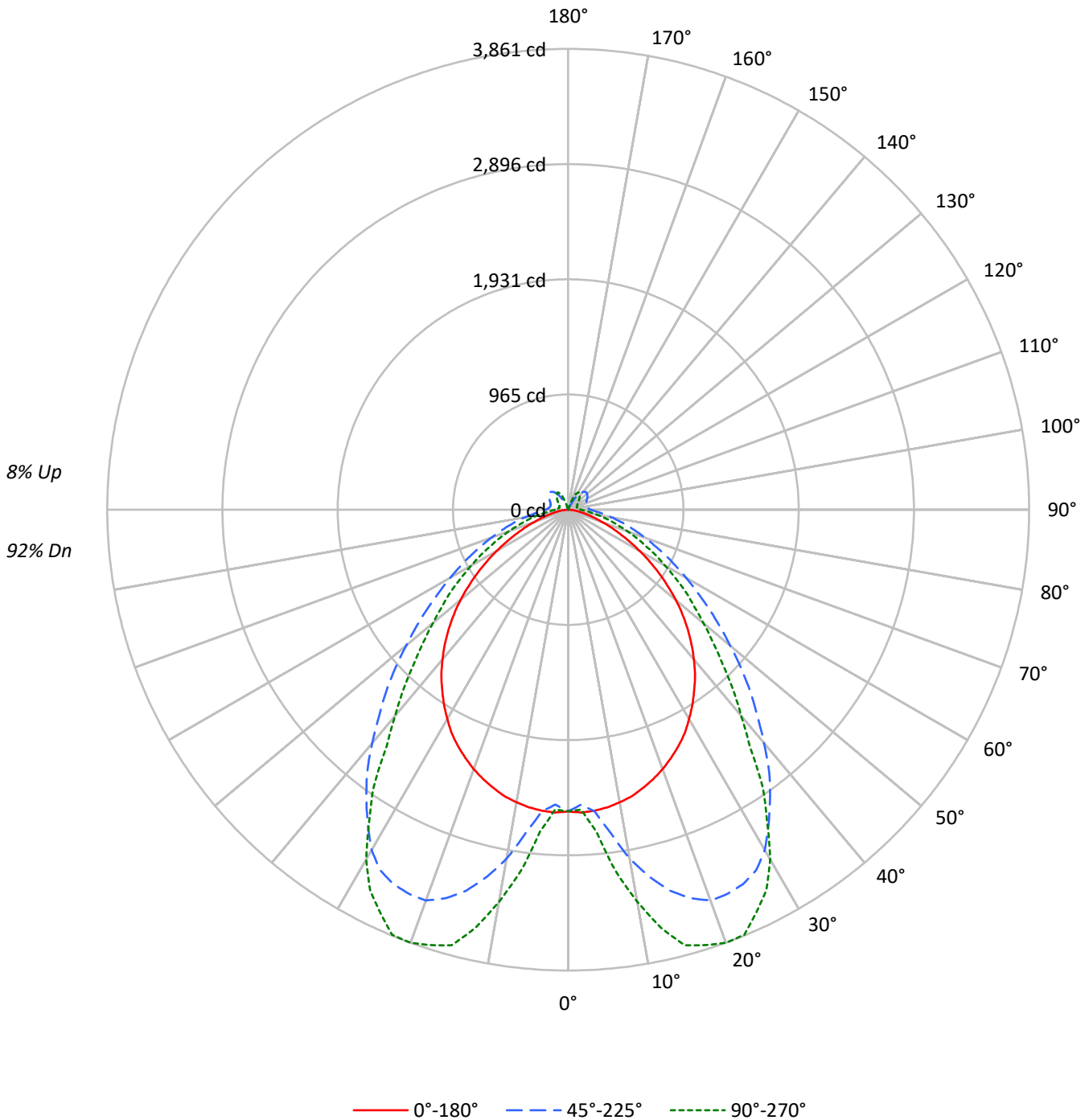
Lumens per Lamp: N/A
Luminaire Lumens: 9177.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 77.4
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°	13603	13603	13603
5°	13631	12753	13272
10°	13516	14108	15119
15°	13324	14995	16038
20°	13074	15238	15523
25°	12754	14720	14326
30°	12321	13721	12566
35°	11793	12137	10287
40°	11163	10463	8001
45°	10395	8875	6419
50°	9449	7370	5180
55°	8302	6065	4240
60°	6991	4968	3344
65°	5622	4029	2592
70°	4327	3220	1976
75°	3221	2544	1430
80°	2260	1959	1014
85°	1351	1478	694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	2.8
10°-20°	900.4	9.8
20°-30°	1482.4	16.2
30°-40°	1665.4	18.1
40°-50°	1482.0	16.1
50°-60°	1146.1	12.5
60°-70°	778.3	8.5
70°-80°	464.5	5.1
80°-90°	249.1	2.7
90°-100°	163.9	1.8
100°-110°	139.0	1.5
110°-120°	128.6	1.4
120°-130°	119.9	1.3
130°-140°	101.6	1.1
140°-150°	69.4	0.8
150°-160°	26.8	0.3
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	2641.5	28.8
0°-40°	4306.8	46.9
0°-60°	6934.9	75.6
0°-90°	8426.8	91.8
90°-120°	431.6	4.7
90°-150°	722.6	7.9
90°-180°	750.0	8.2
0°-180°	9177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2528	2528	2528	2528	2528	
5°	2531	2496	2536	2671	2707	240
15°	2415	2712	3305	3718	3778	681
25°	2184	2805	3462	3734	3725	1005
35°	1841	2526	2948	2920	2845	1150
45°	1416	1952	2158	1973	1827	1089
55°	931	1330	1432	1299	1205	831
65°	476	827	894	806	713	480
75°	176	498	511	440	368	193
85°	31	314	257	201	161	38
90°	2	266	187	136	105	3
95°	1	258	164	115	88	1
105°	1	234	151	98	76	1
115°	1	216	169	107	83	1
125°	1	177	196	130	102	1
135°	1	68	210	167	131	1
145°	1	6	162	190	164	1
155°	1	4	36	125	139	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-10-W-RS-UNV-L835-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2539.9	2530.0	2512.7	2511.4	2500.3	2495.3	2496.5	2492.8	2489.1	2482.9	2473.0
5°	2531.2	2512.7	2484.1	2484.1	2490.3	2496.5	2511.4	2525.0	2528.8	2537.4	2536.2
7.5°	2515.1	2486.6	2459.3	2481.7	2504.0	2512.7	2530.0	2554.8	2593.2	2663.9	2733.3
10°	2489.1	2450.7	2442.0	2477.9	2507.7	2533.7	2573.4	2688.7	2795.3	2900.6	2968.8
12.5°	2459.3	2412.2	2424.6	2470.5	2539.9	2589.5	2691.2	2843.6	2927.9	3050.6	3151.0
15°	2414.7	2370.1	2392.4	2460.6	2605.6	2712.2	2769.2	2955.2	3090.3	3191.9	3304.8
17.5°	2366.4	2326.7	2357.7	2477.9	2675.0	2777.9	2869.7	3027.1	3157.2	3307.2	3413.8
20°	2313.1	2278.4	2318.0	2500.3	2708.5	2813.9	2915.5	3065.5	3237.8	3392.8	3484.5
22.5°	2251.1	2220.1	2280.8	2510.2	2720.9	2826.3	2925.4	3100.2	3278.7	3406.4	3484.5
25°	2184.2	2153.2	2236.2	2490.3	2708.5	2805.2	2911.8	3118.8	3265.1	3365.5	3462.2
27.5°	2112.3	2077.6	2202.8	2449.4	2658.9	2768.0	2888.2	3082.9	3198.1	3309.7	3407.6
30°	2024.3	1993.3	2144.5	2389.9	2589.5	2718.4	2821.3	2996.1	3106.4	3216.7	3292.4
32.5°	1936.2	1906.5	2073.8	2305.6	2510.2	2631.7	2730.8	2867.2	2992.4	3077.9	3125.0
35°	1840.8	1807.3	1992.0	2202.8	2420.9	2526.3	2609.3	2733.3	2838.7	2901.9	2947.7
37.5°	1745.3	1709.4	1887.9	2094.9	2303.2	2399.8	2469.3	2594.5	2675.0	2727.1	2765.5
40°	1637.5	1600.3	1780.1	1973.4	2180.4	2248.6	2320.5	2432.1	2491.6	2533.7	2552.3
42.5°	1528.4	1491.2	1663.5	1845.8	2030.5	2097.4	2171.8	2259.8	2318.0	2342.8	2342.8
45°	1415.6	1379.7	1543.3	1719.3	1875.5	1952.4	2018.1	2088.7	2137.1	2156.9	2158.1
47.5°	1297.9	1268.1	1424.3	1584.2	1730.5	1797.4	1848.2	1916.4	1958.6	1963.5	1962.3
50°	1177.6	1151.6	1291.7	1449.1	1579.2	1638.7	1683.4	1746.6	1780.1	1778.8	1772.6
52.5°	1051.2	1035.1	1165.2	1309.0	1426.8	1480.1	1519.7	1575.5	1602.8	1602.8	1597.8
55°	930.9	921.0	1033.8	1172.7	1283.0	1330.1	1367.3	1416.9	1439.2	1439.2	1431.7
57.5°	809.5	808.2	913.6	1037.5	1142.9	1185.0	1224.7	1268.1	1287.9	1287.9	1275.5
60°	690.5	696.7	800.8	914.8	1011.5	1052.4	1087.1	1129.3	1141.7	1144.1	1141.7
62.5°	580.1	596.2	695.4	799.5	896.2	930.9	961.9	1002.8	1012.7	1016.5	1010.3
65°	476.0	500.8	601.2	700.4	790.9	826.8	854.1	882.6	891.3	895.0	893.7
67.5°	390.5	416.5	516.9	614.8	697.9	726.4	753.7	778.5	779.7	785.9	780.9
70°	302.5	342.1	442.5	535.5	613.6	639.6	661.9	679.3	683.0	684.3	683.0
72.5°	233.0	280.1	375.6	467.3	538.0	562.8	580.1	593.8	593.8	595.0	591.3
75°	176.0	233.0	326.0	410.3	473.5	498.3	512.0	520.6	515.7	514.4	510.7
77.5°	127.7	193.4	281.4	360.7	420.2	438.8	451.2	452.5	445.0	443.8	436.3
80°	88.0	157.4	243.0	317.3	371.9	390.5	396.7	391.7	385.5	378.1	368.2
82.5°	58.3	127.7	210.7	281.4	332.2	347.1	352.0	344.6	335.9	323.5	307.4
85°	31.0	102.9	183.5	251.6	300.0	313.6	316.1	302.5	288.8	272.7	256.6
87.5°	13.6	84.3	163.6	231.8	273.9	283.9	285.1	270.2	252.9	234.3	214.4
90°	2.5	71.9	151.2	216.9	257.8	266.5	266.5	246.7	229.3	209.5	187.2
92.5°	1.2	68.2	147.5	212.0	252.9	261.6	260.3	239.2	218.2	195.9	173.5
95°	1.2	59.5	138.8	207.0	249.2	257.8	256.6	234.3	212.0	188.4	163.6
97.5°	1.2	49.6	130.2	198.3	243.0	251.6	251.6	230.6	208.3	183.5	157.4
100°	0.0	38.4	120.2	189.7	234.3	245.4	246.7	226.8	203.3	178.5	153.7
102.5°	0.0	26.0	111.6	182.2	228.1	239.2	241.7	225.6	200.8	176.0	151.2
105°	1.2	16.1	100.4	173.5	221.9	234.3	238.0	224.4	199.6	176.0	151.2
107.5°	1.2	11.2	89.3	164.9	216.9	230.6	235.5	224.4	200.8	177.3	153.7
110°	1.2	9.9	75.6	156.2	210.7	225.6	233.0	225.6	203.3	181.0	157.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.2	7.4	57.0	145.0	203.3	220.6	230.6	226.8	207.0	184.7	162.4
115°	1.2	6.2	38.4	133.9	195.9	215.7	228.1	228.1	210.7	189.7	168.6
117.5°	1.2	6.2	26.0	119.0	187.2	209.5	223.1	229.3	215.7	194.6	176.0
120°	1.2	5.0	12.4	101.6	176.0	200.8	218.2	229.3	219.4	200.8	182.2
122.5°	1.2	5.0	9.9	78.1	163.6	190.9	210.7	228.1	223.1	205.8	189.7
125°	1.2	3.7	8.7	52.1	147.5	177.3	200.8	224.4	224.4	210.7	195.9
127.5°	1.2	3.7	7.4	37.2	126.4	162.4	187.2	218.2	224.4	214.4	202.1
130°	1.2	3.7	6.2	11.2	96.7	141.3	171.1	208.3	221.9	216.9	205.8
132.5°	1.2	2.5	6.2	8.7	62.0	110.3	148.8	192.1	214.4	216.9	209.5
135°	1.2	2.5	5.0	7.4	44.6	68.2	119.0	172.3	200.8	209.5	209.5
137.5°	1.2	2.5	5.0	6.2	19.8	50.8	74.4	148.8	183.5	199.6	203.3
140°	1.2	2.5	3.7	5.0	7.4	27.3	53.3	117.8	162.4	184.7	194.6
142.5°	1.2	2.5	3.7	5.0	6.2	6.2	32.2	68.2	136.4	164.9	181.0
145°	1.2	2.5	2.5	3.7	5.0	6.2	6.2	52.1	97.9	141.3	162.4
147.5°	1.2	1.2	2.5	3.7	5.0	5.0	5.0	23.6	58.3	107.8	138.8
150°	1.2	1.2	2.5	2.5	3.7	3.7	5.0	5.0	38.4	60.7	102.9
152.5°	1.2	1.2	2.5	2.5	3.7	3.7	3.7	5.0	5.0	40.9	57.0
155°	1.2	1.2	2.5	2.5	2.5	3.7	3.7	3.7	3.7	5.0	35.9
157.5°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	5.0
160°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	5.0
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°	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2485.4	2504.0	2504.0	2520.1	2528.8	2526.3	2528.8	2533.7	2518.8	2513.9
5°	2563.5	2600.7	2619.3	2661.4	2671.3	2689.9	2696.1	2717.2	2722.1	2707.3
7.5°	2808.9	2885.8	2935.4	2986.2	3008.5	3019.6	3039.5	3053.1	3074.2	3058.1
10°	3039.5	3132.4	3203.1	3258.9	3272.5	3283.7	3307.2	3340.7	3338.2	3335.7
12.5°	3239.1	3320.9	3407.6	3488.2	3529.1	3537.8	3572.5	3613.4	3620.8	3587.4
15°	3403.9	3518.0	3615.9	3701.4	3717.5	3739.8	3765.9	3779.5	3773.3	3778.3
17.5°	3541.5	3638.2	3707.6	3753.5	3763.4	3780.8	3804.3	3821.7	3824.1	3825.4
20°	3596.1	3660.5	3727.5	3790.7	3810.5	3827.9	3856.4	3871.2	3868.8	3861.3
22.5°	3586.1	3680.3	3742.3	3794.4	3814.2	3830.3	3855.1	3865.0	3861.3	3853.9
25°	3571.3	3651.8	3706.4	3733.6	3733.6	3746.0	3739.8	3732.4	3723.7	3725.0
27.5°	3500.6	3547.7	3584.9	3615.9	3619.6	3620.8	3617.1	3609.7	3604.7	3593.6
30°	3356.8	3413.8	3431.2	3428.7	3423.8	3422.5	3407.6	3396.5	3382.8	3384.1
32.5°	3188.2	3200.6	3208.1	3187.0	3174.6	3172.1	3158.5	3139.9	3121.3	3101.5
35°	2971.3	2962.6	2945.3	2930.4	2920.5	2905.6	2885.8	2867.2	2843.6	2844.9
37.5°	2761.8	2734.5	2709.7	2668.8	2661.4	2626.7	2588.3	2558.5	2520.1	2499.0
40°	2543.6	2516.4	2485.4	2440.8	2420.9	2388.7	2346.5	2297.0	2266.0	2253.6
42.5°	2335.4	2301.9	2266.0	2212.7	2187.9	2161.8	2117.2	2068.9	2046.6	2042.8
45°	2132.1	2093.7	2059.0	1999.5	1973.4	1942.4	1896.6	1866.8	1834.6	1827.2
47.5°	1936.2	1902.8	1849.5	1803.6	1778.8	1752.8	1705.7	1678.4	1654.9	1646.2
50°	1746.6	1714.4	1673.4	1622.6	1599.1	1574.3	1540.8	1514.8	1487.5	1478.8
52.5°	1576.8	1544.5	1502.4	1462.7	1439.2	1424.3	1393.3	1363.6	1342.5	1328.8
55°	1413.1	1383.4	1345.0	1307.8	1299.1	1279.3	1243.3	1217.3	1203.6	1204.9
57.5°	1263.1	1237.1	1207.4	1171.4	1157.8	1139.2	1115.6	1084.6	1068.5	1063.6
60°	1126.8	1102.0	1077.2	1049.9	1032.6	1018.9	986.7	961.9	940.8	938.4
62.5°	996.6	978.0	957.0	929.7	914.8	899.9	871.4	847.9	831.8	826.8
65°	883.8	867.7	842.9	820.6	805.7	790.9	763.6	740.0	726.4	712.8
67.5°	772.3	758.6	740.0	716.5	702.8	688.0	664.4	638.4	622.3	618.6
70°	673.1	658.2	643.3	618.6	606.2	597.5	571.5	545.4	533.0	528.1
72.5°	587.6	571.5	550.4	533.0	525.6	509.5	484.7	467.3	451.2	441.3
75°	498.3	488.4	473.5	453.7	440.1	428.9	409.1	391.7	378.1	368.2
77.5°	425.2	412.8	400.4	380.6	370.6	360.7	339.6	324.8	311.1	306.2
80°	357.0	345.8	328.5	313.6	304.9	296.3	280.1	264.0	254.1	249.2
82.5°	295.0	285.1	271.5	259.1	249.2	243.0	228.1	214.4	205.8	198.3
85°	244.2	231.8	219.4	208.3	200.8	195.9	184.7	174.8	163.6	161.1
87.5°	200.8	190.9	179.7	168.6	163.6	157.4	147.5	140.1	131.4	127.7
90°	172.3	159.9	150.0	141.3	136.4	132.6	125.2	115.3	109.1	105.4
92.5°	156.2	145.0	136.4	127.7	124.0	120.2	111.6	104.1	97.9	93.0
95°	146.3	135.1	126.4	119.0	115.3	112.8	105.4	97.9	91.7	88.0
97.5°	138.8	126.4	117.8	111.6	107.8	105.4	99.2	93.0	86.8	83.1
100°	132.6	120.2	111.6	105.4	102.9	100.4	94.2	88.0	83.1	79.3
102.5°	130.2	116.5	107.8	102.9	100.4	97.9	91.7	86.8	80.6	76.9
105°	130.2	115.3	106.6	100.4	97.9	95.4	90.5	85.5	79.3	75.6
107.5°	132.6	116.5	106.6	101.6	99.2	96.7	90.5	85.5	79.3	75.6
110°	136.4	120.2	109.1	102.9	100.4	97.9	91.7	86.8	80.6	76.9



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-10-W-RS-UNV-L835-CD1-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	141.3	124.0	112.8	105.4	102.9	100.4	94.2	89.3	83.1	79.3
115°	147.5	128.9	117.8	109.1	106.6	104.1	97.9	91.7	86.8	83.1
117.5°	154.9	136.4	122.7	114.0	111.6	107.8	101.6	95.4	90.5	86.8
120°	162.4	145.0	130.2	120.2	116.5	112.8	106.6	100.4	94.2	90.5
122.5°	171.1	152.5	137.6	127.7	124.0	120.2	112.8	106.6	100.4	95.4
125°	179.7	162.4	146.3	135.1	130.2	126.4	119.0	111.6	106.6	101.6
127.5°	187.2	171.1	154.9	143.8	138.8	133.9	126.4	119.0	112.8	109.1
130°	193.4	179.7	164.9	152.5	147.5	143.8	133.9	126.4	120.2	116.5
132.5°	199.6	187.2	174.8	162.4	157.4	152.5	143.8	135.1	128.9	124.0
135°	203.3	193.4	183.5	172.3	167.3	161.1	152.5	143.8	136.4	131.4
137.5°	203.3	198.3	189.7	181.0	176.0	171.1	161.1	152.5	145.0	141.3
140°	197.1	198.3	194.6	188.4	183.5	179.7	171.1	161.1	153.7	150.0
142.5°	188.4	192.1	194.6	190.9	188.4	185.9	178.5	169.8	162.4	157.4
145°	174.8	182.2	187.2	190.9	189.7	188.4	182.2	176.0	168.6	163.6
147.5°	157.4	168.6	174.8	183.5	185.9	185.9	183.5	178.5	172.3	168.6
150°	132.6	148.8	159.9	168.6	172.3	177.3	177.3	173.5	169.8	166.1
152.5°	94.2	120.2	136.4	148.8	153.7	158.7	164.9	162.4	157.4	154.9
155°	53.3	65.7	99.2	119.0	125.2	131.4	141.3	143.8	142.6	138.8
157.5°	27.3	44.6	55.8	64.5	68.2	78.1	97.9	111.6	110.3	112.8
160°	6.2	7.4	21.1	39.7	44.6	47.1	52.1	55.8	55.8	53.3
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)