

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-LD5-12-W-RS-UNV-L850-CD2-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-LD5-12-W-RS-UNV-L850-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

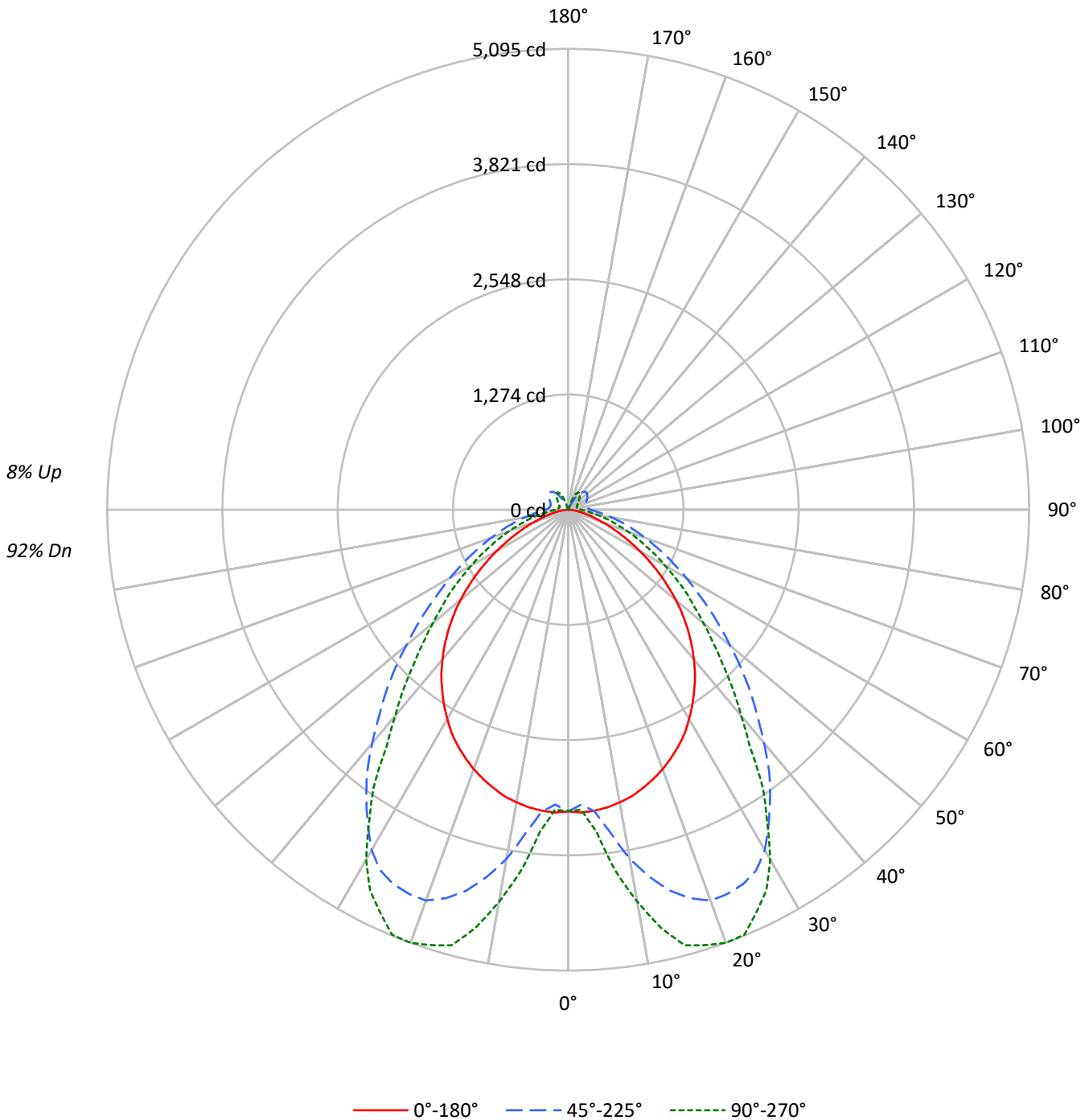
Lumens per Lamp: N/A
Luminaire Lumens: 12110.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 94.3
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°	17950	17950	17950
5°	17988	16829	17513
10°	17836	18617	19952
15°	17583	19788	21164
20°	17253	20108	20485
25°	16829	19424	18905
30°	16258	18106	16582
35°	15562	16016	13575
40°	14731	13806	10557
45°	13718	11712	8470
50°	12470	9725	6835
55°	10957	8003	5596
60°	9224	6556	4412
65°	7419	5318	3420
70°	5708	4250	2607
75°	4252	3356	1887
80°	2982	2585	1338
85°	1783	1950	916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	2.8
10°-20°	1188.1	9.8
20°-30°	1956.1	16.2
30°-40°	2197.6	18.1
40°-50°	1955.6	16.1
50°-60°	1512.4	12.5
60°-70°	1027.0	8.5
70°-80°	612.9	5.1
80°-90°	328.7	2.7
90°-100°	216.3	1.8
100°-110°	183.5	1.5
110°-120°	169.8	1.4
120°-130°	158.2	1.3
130°-140°	134.1	1.1
140°-150°	91.6	0.8
150°-160°	35.4	0.3
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	3485.7	28.8
0°-40°	5683.3	46.9
0°-60°	9151.3	75.6
0°-90°	11120.0	91.8
90°-120°	569.6	4.7
90°-150°	953.5	7.9
90°-180°	990.0	8.2
0°-180°	12110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3335	3335	3335	3335	3335	
5°	3340	3294	3347	3525	3572	317
15°	3186	3579	4361	4906	4986	898
25°	2882	3702	4569	4927	4916	1326
35°	2429	3334	3890	3854	3754	1518
45°	1868	2576	2848	2604	2411	1437
55°	1228	1755	1889	1714	1590	1097
65°	628	1091	1179	1063	941	633
75°	232	658	674	581	486	254
85°	41	414	339	265	213	50
90°	3	352	247	180	139	4
95°	2	340	216	152	116	1
105°	2	309	200	129	100	1
115°	2	285	222	141	110	2
125°	2	234	258	172	134	1
135°	2	90	276	221	173	1
145°	2	8	214	250	216	1
155°	2	5	47	165	183	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-LD5-12-W-RS-UNV-L850-CD2-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3
2.5°	3351.7	3338.6	3315.7	3314.1	3299.3	3292.8	3294.4	3289.5	3284.6	3276.4	3263.4
5°	3340.2	3315.7	3278.1	3278.1	3286.3	3294.4	3314.1	3332.1	3337.0	3348.4	3346.8
7.5°	3319.0	3281.4	3245.4	3274.8	3304.3	3315.7	3338.6	3371.3	3422.0	3515.3	3606.9
10°	3284.6	3233.9	3222.5	3269.9	3309.2	3343.5	3395.9	3548.0	3688.7	3827.7	3917.7
12.5°	3245.4	3183.2	3199.6	3260.1	3351.7	3417.1	3551.3	3752.5	3863.7	4025.6	4158.1
15°	3186.5	3127.6	3157.0	3247.0	3438.4	3579.1	3654.3	3899.7	4078.0	4212.1	4361.0
17.5°	3122.7	3070.3	3111.2	3269.9	3530.0	3665.8	3786.8	3994.5	4166.3	4364.2	4504.9
20°	3052.3	3006.5	3058.9	3299.3	3574.2	3713.2	3847.3	4045.3	4272.6	4477.1	4598.1
22.5°	2970.6	2929.7	3009.8	3312.4	3590.5	3729.6	3860.4	4091.1	4326.6	4495.1	4598.1
25°	2882.2	2841.3	2950.9	3286.3	3574.2	3701.7	3842.4	4115.6	4308.6	4441.1	4568.7
27.5°	2787.4	2741.5	2906.8	3232.3	3508.7	3652.7	3811.3	4068.2	4220.3	4367.5	4496.7
30°	2671.2	2630.3	2829.9	3153.8	3417.1	3587.2	3723.0	3953.7	4099.2	4244.8	4344.6
32.5°	2555.1	2515.8	2736.6	3042.5	3312.4	3472.7	3603.6	3783.5	3948.7	4061.6	4123.8
35°	2429.1	2385.0	2628.7	2906.8	3194.7	3333.7	3443.3	3606.9	3745.9	3829.3	3889.9
37.5°	2303.2	2255.7	2491.3	2764.4	3039.3	3166.8	3258.5	3423.7	3530.0	3598.7	3649.4
40°	2160.9	2111.8	2349.0	2604.1	2877.3	2967.3	3062.2	3209.4	3287.9	3343.5	3368.0
42.5°	2016.9	1967.8	2195.2	2435.7	2679.4	2767.7	2865.9	2982.0	3058.9	3091.6	3091.6
45°	1868.0	1820.6	2036.5	2268.8	2474.9	2576.3	2663.0	2756.3	2820.1	2846.2	2847.9
47.5°	1712.7	1673.4	1879.5	2090.5	2283.5	2371.9	2438.9	2528.9	2584.5	2591.1	2589.4
50°	1554.0	1519.6	1704.5	1912.2	2084.0	2162.5	2221.4	2304.8	2349.0	2347.3	2339.1
52.5°	1387.1	1365.9	1537.6	1727.4	1882.8	1953.1	2005.5	2079.1	2115.0	2115.0	2108.5
55°	1228.5	1215.4	1364.2	1547.4	1693.0	1755.2	1804.3	1869.7	1899.1	1899.1	1889.3
57.5°	1068.2	1066.5	1205.6	1369.1	1508.2	1563.8	1616.1	1673.4	1699.6	1699.6	1683.2
60°	911.1	919.3	1056.7	1207.2	1334.8	1388.8	1434.6	1490.2	1506.5	1509.8	1506.5
62.5°	765.5	786.8	917.7	1055.1	1182.7	1228.5	1269.4	1323.3	1336.4	1341.3	1333.2
65°	628.1	660.9	793.3	924.2	1043.6	1091.1	1127.0	1164.7	1176.1	1181.0	1179.4
67.5°	515.3	549.6	682.1	811.3	920.9	958.6	994.5	1027.3	1028.9	1037.1	1030.5
70°	399.1	451.5	584.0	706.7	809.7	844.1	873.5	896.4	901.3	902.9	901.3
72.5°	307.5	369.7	495.6	616.7	709.9	742.6	765.5	783.5	783.5	785.2	780.3
75°	232.3	307.5	430.2	541.4	624.9	657.6	675.6	687.0	680.5	678.8	673.9
77.5°	168.5	255.2	371.3	476.0	554.5	579.1	595.4	597.1	587.2	585.6	575.8
80°	116.1	207.7	320.6	418.8	490.7	515.3	523.4	516.9	508.7	498.9	485.8
82.5°	76.9	168.5	278.1	371.3	438.4	458.0	464.6	454.7	443.3	426.9	405.7
85°	40.9	135.8	242.1	332.1	395.9	413.8	417.1	399.1	381.1	359.9	338.6
87.5°	18.0	111.2	215.9	305.9	361.5	374.6	376.2	356.6	333.7	309.2	283.0
90°	3.3	94.9	199.6	286.3	340.2	351.7	351.7	325.5	302.6	276.4	247.0
92.5°	1.6	90.0	194.7	279.7	333.7	345.1	343.5	315.7	287.9	258.5	229.0
95°	1.6	78.5	183.2	273.2	328.8	340.2	338.6	309.2	279.7	248.6	215.9
97.5°	1.6	65.4	171.8	261.7	320.6	332.1	332.1	304.3	274.8	242.1	207.7
100°	0.0	50.7	158.7	250.3	309.2	323.9	325.5	299.3	268.3	235.6	202.8
102.5°	0.0	34.4	147.2	240.5	301.0	315.7	319.0	297.7	265.0	232.3	199.6
105°	1.6	21.3	132.5	229.0	292.8	309.2	314.1	296.1	263.4	232.3	199.6
107.5°	1.6	14.7	117.8	217.6	286.3	304.3	310.8	296.1	265.0	233.9	202.8
110°	1.6	13.1	99.8	206.1	278.1	297.7	307.5	297.7	268.3	238.8	207.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.6	9.8	75.2	191.4	268.3	291.2	304.3	299.3	273.2	243.7	214.3
115°	1.6	8.2	50.7	176.7	258.5	284.6	301.0	301.0	278.1	250.3	222.5
117.5°	1.6	8.2	34.4	157.0	247.0	276.4	294.4	302.6	284.6	256.8	232.3
120°	1.6	6.5	16.4	134.1	232.3	265.0	287.9	302.6	289.5	265.0	240.5
122.5°	1.6	6.5	13.1	103.1	215.9	251.9	278.1	301.0	294.4	271.5	250.3
125°	1.6	4.9	11.5	68.7	194.7	233.9	265.0	296.1	296.1	278.1	258.5
127.5°	1.6	4.9	9.8	49.1	166.8	214.3	247.0	287.9	296.1	283.0	266.6
130°	1.6	4.9	8.2	14.7	127.6	186.5	225.7	274.8	292.8	286.3	271.5
132.5°	1.6	3.3	8.2	11.5	81.8	145.6	196.3	253.5	283.0	286.3	276.4
135°	1.6	3.3	6.5	9.8	58.9	90.0	157.0	227.4	265.0	276.4	276.4
137.5°	1.6	3.3	6.5	8.2	26.2	67.1	98.1	196.3	242.1	263.4	268.3
140°	1.6	3.3	4.9	6.5	9.8	36.0	70.3	155.4	214.3	243.7	256.8
142.5°	1.6	3.3	4.9	6.5	8.2	8.2	42.5	90.0	179.9	217.6	238.8
145°	1.6	3.3	3.3	4.9	6.5	8.2	8.2	68.7	129.2	186.5	214.3
147.5°	1.6	1.6	3.3	4.9	6.5	6.5	6.5	31.1	76.9	142.3	183.2
150°	1.6	1.6	3.3	3.3	4.9	4.9	6.5	6.5	50.7	80.2	135.8
152.5°	1.6	1.6	3.3	3.3	4.9	4.9	4.9	6.5	6.5	54.0	75.2
155°	1.6	1.6	3.3	3.3	3.3	4.9	4.9	4.9	4.9	6.5	47.4
157.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.5	6.5
160°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	6.5
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°	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3	3335.3
2.5°	3279.7	3304.3	3304.3	3325.5	3337.0	3333.7	3337.0	3343.5	3323.9	3317.3
5°	3382.8	3431.8	3456.4	3512.0	3525.1	3549.6	3557.8	3585.6	3592.1	3572.5
7.5°	3706.7	3808.1	3873.5	3940.6	3970.0	3984.7	4010.9	4028.9	4056.7	4035.4
10°	4010.9	4133.6	4226.8	4300.4	4318.4	4333.2	4364.2	4408.4	4405.1	4401.9
12.5°	4274.3	4382.2	4496.7	4603.1	4657.0	4668.5	4714.3	4768.3	4778.1	4733.9
15°	4491.8	4642.3	4771.5	4884.4	4905.7	4935.1	4969.5	4987.5	4979.3	4985.8
17.5°	4673.4	4801.0	4892.6	4953.1	4966.2	4989.1	5020.2	5043.1	5046.3	5048.0
20°	4745.4	4830.4	4918.8	5002.2	5028.4	5051.3	5088.9	5108.5	5105.2	5095.4
22.5°	4732.3	4856.6	4938.4	5007.1	5033.3	5054.5	5087.2	5100.3	5095.4	5085.6
25°	4712.7	4819.0	4890.9	4926.9	4926.9	4943.3	4935.1	4925.3	4913.9	4915.5
27.5°	4619.4	4681.6	4730.6	4771.5	4776.4	4778.1	4773.2	4763.4	4756.8	4742.1
30°	4429.7	4504.9	4527.8	4524.5	4518.0	4516.4	4496.7	4482.0	4464.0	4465.6
32.5°	4207.2	4223.6	4233.4	4205.6	4189.2	4185.9	4167.9	4143.4	4118.9	4092.7
35°	3920.9	3909.5	3886.6	3867.0	3853.9	3834.2	3808.1	3783.5	3752.5	3754.1
37.5°	3644.5	3608.5	3575.8	3521.8	3512.0	3466.2	3415.5	3376.2	3325.5	3297.7
40°	3356.6	3320.6	3279.7	3220.8	3194.7	3152.1	3096.5	3031.1	2990.2	2973.8
42.5°	3081.8	3037.6	2990.2	2919.8	2887.1	2852.8	2793.9	2730.1	2700.7	2695.7
45°	2813.5	2762.8	2717.0	2638.5	2604.1	2563.3	2502.7	2463.5	2420.9	2411.1
47.5°	2555.1	2510.9	2440.6	2380.0	2347.3	2313.0	2250.8	2214.8	2183.8	2172.3
50°	2304.8	2262.3	2208.3	2141.2	2110.1	2077.4	2033.3	1998.9	1962.9	1951.5
52.5°	2080.7	2038.2	1982.6	1930.2	1899.1	1879.5	1838.6	1799.3	1771.5	1753.5
55°	1864.8	1825.5	1774.8	1725.7	1714.3	1688.1	1640.7	1606.3	1588.3	1590.0
57.5°	1666.8	1632.5	1593.2	1545.8	1527.8	1503.3	1472.2	1431.3	1410.0	1403.5
60°	1486.9	1454.2	1421.5	1385.5	1362.6	1344.6	1302.1	1269.4	1241.5	1238.3
62.5°	1315.2	1290.6	1262.8	1226.8	1207.2	1187.6	1149.9	1118.9	1097.6	1091.1
65°	1166.3	1145.0	1112.3	1082.9	1063.2	1043.6	1007.6	976.6	958.6	940.6
67.5°	1019.1	1001.1	976.6	945.5	927.5	907.9	876.8	842.4	821.2	816.2
70°	888.2	868.6	849.0	816.2	799.9	788.4	754.1	719.7	703.4	696.8
72.5°	775.4	754.1	726.3	703.4	693.6	672.3	639.6	616.7	595.4	582.3
75°	657.6	644.5	624.9	598.7	580.7	566.0	539.8	516.9	498.9	485.8
77.5°	561.1	544.7	528.4	502.2	489.1	476.0	448.2	428.6	410.6	404.0
80°	471.1	456.4	433.5	413.8	402.4	390.9	369.7	348.4	335.3	328.8
82.5°	389.3	376.2	358.2	341.9	328.8	320.6	301.0	283.0	271.5	261.7
85°	322.2	305.9	289.5	274.8	265.0	258.5	243.7	230.6	215.9	212.6
87.5°	265.0	251.9	237.2	222.5	215.9	207.7	194.7	184.8	173.4	168.5
90°	227.4	211.0	197.9	186.5	179.9	175.0	165.2	152.1	143.9	139.0
92.5°	206.1	191.4	179.9	168.5	163.6	158.7	147.2	137.4	129.2	122.7
95°	193.0	178.3	166.8	157.0	152.1	148.9	139.0	129.2	121.0	116.1
97.5°	183.2	166.8	155.4	147.2	142.3	139.0	130.9	122.7	114.5	109.6
100°	175.0	158.7	147.2	139.0	135.8	132.5	124.3	116.1	109.6	104.7
102.5°	171.8	153.8	142.3	135.8	132.5	129.2	121.0	114.5	106.3	101.4
105°	171.8	152.1	140.7	132.5	129.2	126.0	119.4	112.9	104.7	99.8
107.5°	175.0	153.8	140.7	134.1	130.9	127.6	119.4	112.9	104.7	99.8
110°	179.9	158.7	143.9	135.8	132.5	129.2	121.0	114.5	106.3	101.4



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-12-W-RS-UNV-L850-CD2-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	186.5	163.6	148.9	139.0	135.8	132.5	124.3	117.8	109.6	104.7
115°	194.7	170.1	155.4	143.9	140.7	137.4	129.2	121.0	114.5	109.6
117.5°	204.5	179.9	161.9	150.5	147.2	142.3	134.1	126.0	119.4	114.5
120°	214.3	191.4	171.8	158.7	153.8	148.9	140.7	132.5	124.3	119.4
122.5°	225.7	201.2	181.6	168.5	163.6	158.7	148.9	140.7	132.5	126.0
125°	237.2	214.3	193.0	178.3	171.8	166.8	157.0	147.2	140.7	134.1
127.5°	247.0	225.7	204.5	189.7	183.2	176.7	166.8	157.0	148.9	143.9
130°	255.2	237.2	217.6	201.2	194.7	189.7	176.7	166.8	158.7	153.8
132.5°	263.4	247.0	230.6	214.3	207.7	201.2	189.7	178.3	170.1	163.6
135°	268.3	255.2	242.1	227.4	220.8	212.6	201.2	189.7	179.9	173.4
137.5°	268.3	261.7	250.3	238.8	232.3	225.7	212.6	201.2	191.4	186.5
140°	260.1	261.7	256.8	248.6	242.1	237.2	225.7	212.6	202.8	197.9
142.5°	248.6	253.5	256.8	251.9	248.6	245.4	235.6	224.1	214.3	207.7
145°	230.6	240.5	247.0	251.9	250.3	248.6	240.5	232.3	222.5	215.9
147.5°	207.7	222.5	230.6	242.1	245.4	245.4	242.1	235.6	227.4	222.5
150°	175.0	196.3	211.0	222.5	227.4	233.9	233.9	229.0	224.1	219.2
152.5°	124.3	158.7	179.9	196.3	202.8	209.4	217.6	214.3	207.7	204.5
155°	70.3	86.7	130.9	157.0	165.2	173.4	186.5	189.7	188.1	183.2
157.5°	36.0	58.9	73.6	85.1	90.0	103.1	129.2	147.2	145.6	148.9
160°	8.2	9.8	27.8	52.3	58.9	62.2	68.7	73.6	73.6	70.3
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)