

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-L840-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-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

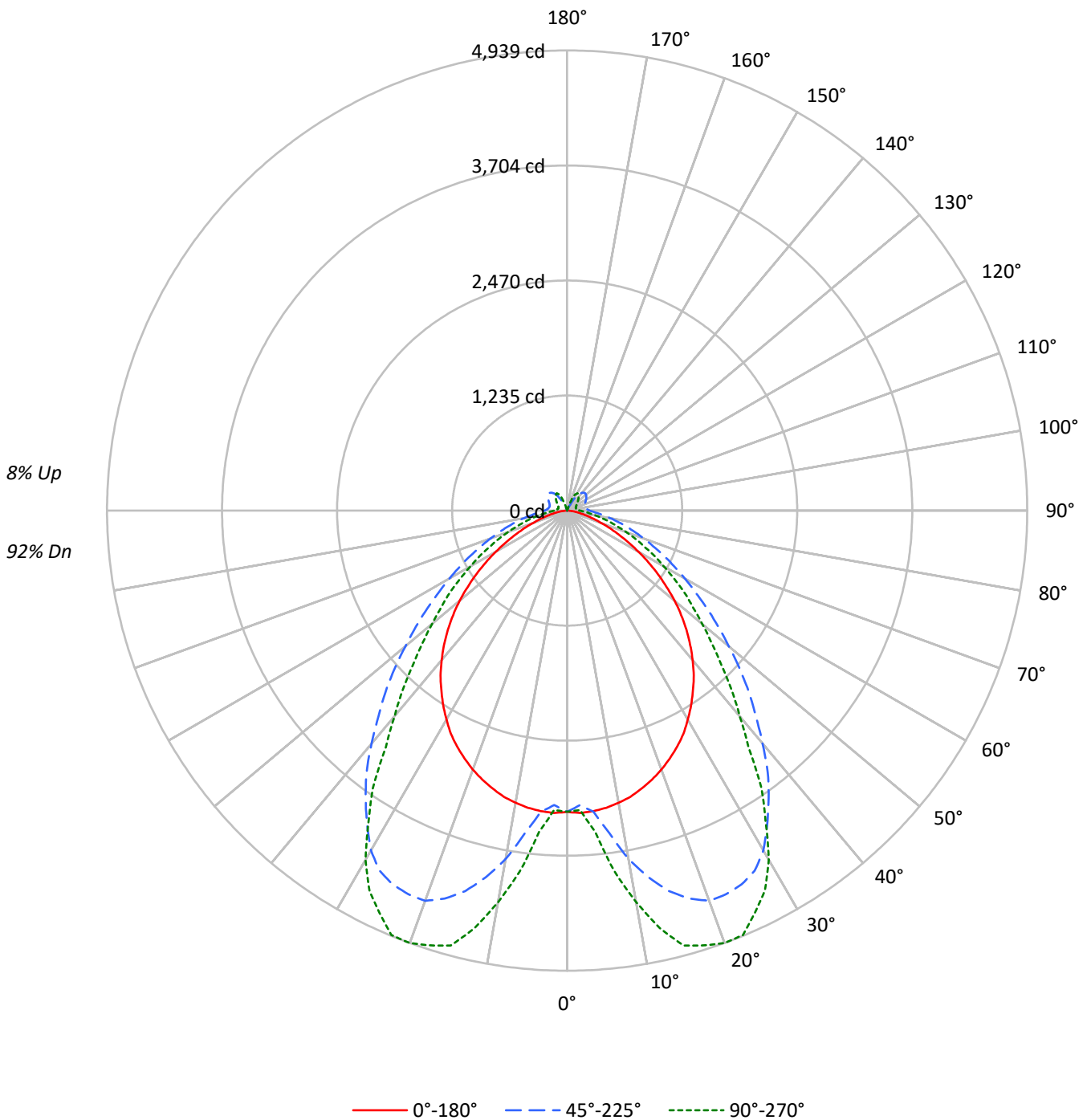
Lumens per Lamp: N/A
Luminaire Lumens: 11739.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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°	17401	17401	17401
5°	17437	16313	16977
10°	17289	18047	19340
15°	17044	19182	20516
20°	16724	19493	19857
25°	16314	18829	18326
30°	15760	17551	16074
35°	15086	15525	13159
40°	14280	13384	10234
45°	13298	11353	8210
50°	12088	9427	6626
55°	10620	7758	5424
60°	8942	6355	4277
65°	7192	5155	3316
70°	5534	4119	2528
75°	4122	3254	1829
80°	2892	2506	1297
85°	1726	1890	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	2.8
10°-20°	1151.7	9.8
20°-30°	1896.2	16.2
30°-40°	2130.3	18.1
40°-50°	1895.7	16.1
50°-60°	1466.1	12.5
60°-70°	995.5	8.5
70°-80°	594.1	5.1
80°-90°	318.7	2.7
90°-100°	209.7	1.8
100°-110°	177.9	1.5
110°-120°	164.6	1.4
120°-130°	153.3	1.3
130°-140°	130.0	1.1
140°-150°	88.8	0.8
150°-160°	34.3	0.3
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	3378.9	28.8
0°-40°	5509.2	46.9
0°-60°	8871.0	75.6
0°-90°	10779.3	91.8
90°-120°	552.2	4.7
90°-150°	924.3	7.9
90°-180°	960.0	8.2
0°-180°	11739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3233	3233	3233	3233	3233	
5°	3238	3194	3244	3417	3463	307
15°	3089	3469	4227	4755	4833	871
25°	2794	3588	4429	4776	4765	1285
35°	2355	3232	3771	3736	3639	1471
45°	1811	2497	2761	2524	2337	1393
55°	1191	1701	1831	1662	1541	1064
65°	609	1058	1143	1031	912	614
75°	225	637	653	563	471	247
85°	40	401	328	257	206	49
90°	3	341	239	174	135	3
95°	2	330	209	148	113	1
105°	2	300	194	125	97	1
115°	2	276	216	136	106	2
125°	2	227	250	166	130	1
135°	2	87	268	214	168	1
145°	2	8	208	243	209	1
155°	2	5	46	160	178	1
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°	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2
2.5°	3249.0	3236.3	3214.1	3212.5	3198.3	3191.9	3193.5	3188.8	3184.0	3176.1	3163.4
5°	3237.9	3214.1	3177.7	3177.7	3185.6	3193.5	3212.5	3230.0	3234.7	3245.8	3244.3
7.5°	3217.3	3180.8	3145.9	3174.5	3203.0	3214.1	3236.3	3268.0	3317.2	3407.6	3496.4
10°	3184.0	3134.8	3123.7	3169.7	3207.8	3241.1	3291.8	3439.3	3575.7	3710.4	3797.6
12.5°	3145.9	3085.7	3101.5	3160.2	3249.0	3312.4	3442.5	3637.5	3745.3	3902.3	4030.7
15°	3088.9	3031.8	3060.3	3147.5	3333.0	3469.4	3542.4	3780.2	3953.0	4083.1	4227.4
17.5°	3027.0	2976.3	3015.9	3169.7	3421.8	3553.5	3670.8	3872.2	4038.7	4230.5	4366.9
20°	2958.8	2914.4	2965.2	3198.3	3464.7	3599.4	3729.5	3921.3	4141.7	4339.9	4457.3
22.5°	2879.6	2839.9	2917.6	3211.0	3480.5	3615.3	3742.1	3965.7	4194.1	4357.4	4457.3
25°	2793.9	2754.3	2860.5	3185.6	3464.7	3588.3	3724.7	3989.5	4176.6	4305.1	4428.7
27.5°	2702.0	2657.6	2817.7	3133.3	3401.2	3540.8	3694.6	3943.5	4091.0	4233.7	4359.0
30°	2589.4	2549.7	2743.2	3057.1	3312.4	3477.3	3609.0	3832.5	3973.7	4114.8	4211.5
32.5°	2476.8	2438.7	2652.8	2949.3	3211.0	3366.3	3493.2	3667.6	3827.8	3937.2	3997.4
35°	2354.7	2311.9	2548.1	2817.7	3096.8	3231.6	3337.8	3496.4	3631.2	3712.0	3770.7
37.5°	2232.6	2186.6	2415.0	2679.8	2946.1	3069.8	3158.6	3318.8	3421.8	3488.4	3537.6
40°	2094.7	2047.1	2277.0	2524.4	2789.2	2876.4	2968.3	3111.1	3187.2	3241.1	3264.9
42.5°	1955.1	1907.5	2128.0	2361.0	2597.3	2682.9	2778.1	2890.7	2965.2	2996.9	2996.9
45°	1810.8	1764.8	1974.1	2199.3	2399.1	2497.4	2581.4	2671.8	2733.7	2759.0	2760.6
47.5°	1660.2	1622.1	1821.9	2026.5	2213.6	2299.2	2364.2	2451.4	2505.3	2511.7	2510.1
50°	1506.4	1473.1	1652.3	1853.6	2020.1	2096.2	2153.3	2234.2	2277.0	2275.4	2267.5
52.5°	1344.6	1324.0	1490.5	1674.5	1825.1	1893.3	1944.0	2015.4	2050.3	2050.3	2043.9
55°	1190.8	1178.1	1322.4	1500.0	1641.2	1701.4	1749.0	1812.4	1840.9	1840.9	1831.4
57.5°	1035.4	1033.8	1168.6	1327.2	1462.0	1515.9	1566.6	1622.1	1647.5	1647.5	1631.6
60°	883.2	891.1	1024.3	1170.2	1293.9	1346.2	1390.6	1444.5	1460.4	1463.6	1460.4
62.5°	742.1	762.7	889.6	1022.7	1146.4	1190.8	1230.5	1282.8	1295.5	1300.2	1292.3
65°	608.9	640.6	769.0	895.9	1011.6	1057.6	1092.5	1129.0	1140.1	1144.8	1143.3
67.5°	499.5	532.8	661.2	786.5	892.7	929.2	964.1	995.8	997.4	1005.3	999.0
70°	386.9	437.6	566.1	685.0	784.9	818.2	846.7	868.9	873.7	875.3	873.7
72.5°	298.1	358.4	480.5	597.8	688.2	719.9	742.1	759.5	759.5	761.1	756.4
75°	225.2	298.1	417.0	524.9	605.7	637.4	654.9	666.0	659.6	658.0	653.3
77.5°	163.3	247.4	359.9	461.4	537.5	561.3	577.2	578.8	569.3	567.7	558.2
80°	112.6	201.4	310.8	405.9	475.7	499.5	507.4	501.1	493.1	483.6	470.9
82.5°	74.5	163.3	269.6	359.9	425.0	444.0	450.3	440.8	429.7	413.9	393.2
85°	39.6	131.6	234.7	321.9	383.7	401.2	404.3	386.9	369.5	348.8	328.2
87.5°	17.4	107.8	209.3	296.5	350.4	363.1	364.7	345.7	323.5	299.7	274.3
90°	3.2	92.0	193.5	277.5	329.8	340.9	340.9	315.5	293.3	268.0	239.4
92.5°	1.6	87.2	188.7	271.1	323.5	334.6	333.0	306.0	279.1	250.5	222.0
95°	1.6	76.1	177.6	264.8	318.7	329.8	328.2	299.7	271.1	241.0	209.3
97.5°	1.6	63.4	166.5	253.7	310.8	321.9	321.9	294.9	266.4	234.7	201.4
100°	0.0	49.2	153.8	242.6	299.7	314.0	315.5	290.2	260.0	228.3	196.6
102.5°	0.0	33.3	142.7	233.1	291.8	306.0	309.2	288.6	256.9	225.2	193.5
105°	1.6	20.6	128.4	222.0	283.8	299.7	304.4	287.0	255.3	225.2	193.5
107.5°	1.6	14.3	114.2	210.9	277.5	294.9	301.3	287.0	256.9	226.7	196.6
110°	1.6	12.7	96.7	199.8	269.6	288.6	298.1	288.6	260.0	231.5	201.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.6	9.5	72.9	185.5	260.0	282.2	294.9	290.2	264.8	236.3	207.7
115°	1.6	7.9	49.2	171.3	250.5	275.9	291.8	291.8	269.6	242.6	215.6
117.5°	1.6	7.9	33.3	152.2	239.4	268.0	285.4	293.3	275.9	248.9	225.2
120°	1.6	6.3	15.9	130.0	225.2	256.9	279.1	293.3	280.7	256.9	233.1
122.5°	1.6	6.3	12.7	99.9	209.3	244.2	269.6	291.8	285.4	263.2	242.6
125°	1.6	4.8	11.1	66.6	188.7	226.7	256.9	287.0	287.0	269.6	250.5
127.5°	1.6	4.8	9.5	47.6	161.7	207.7	239.4	279.1	287.0	274.3	258.5
130°	1.6	4.8	7.9	14.3	123.7	180.8	218.8	266.4	283.8	277.5	263.2
132.5°	1.6	3.2	7.9	11.1	79.3	141.1	190.3	245.8	274.3	277.5	268.0
135°	1.6	3.2	6.3	9.5	57.1	87.2	152.2	220.4	256.9	268.0	268.0
137.5°	1.6	3.2	6.3	7.9	25.4	65.0	95.1	190.3	234.7	255.3	260.0
140°	1.6	3.2	4.8	6.3	9.5	34.9	68.2	150.6	207.7	236.3	248.9
142.5°	1.6	3.2	4.8	6.3	7.9	7.9	41.2	87.2	174.4	210.9	231.5
145°	1.6	3.2	3.2	4.8	6.3	7.9	7.9	66.6	125.3	180.8	207.7
147.5°	1.6	1.6	3.2	4.8	6.3	6.3	6.3	30.1	74.5	138.0	177.6
150°	1.6	1.6	3.2	3.2	4.8	4.8	6.3	6.3	49.2	77.7	131.6
152.5°	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.3	6.3	52.3	72.9
155°	1.6	1.6	3.2	3.2	3.2	4.8	4.8	4.8	4.8	6.3	46.0
157.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.3	6.3
160°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8	6.3
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°	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2
2.5°	3179.2	3203.0	3203.0	3223.6	3234.7	3231.6	3234.7	3241.1	3222.1	3215.7
5°	3279.1	3326.7	3350.5	3404.4	3417.1	3440.9	3448.8	3475.8	3482.1	3463.1
7.5°	3593.1	3691.4	3754.8	3819.8	3848.4	3862.7	3888.0	3905.5	3932.4	3911.8
10°	3888.0	4007.0	4097.3	4168.7	4186.1	4200.4	4230.5	4273.3	4270.2	4267.0
12.5°	4143.3	4248.0	4359.0	4462.0	4514.4	4525.5	4569.9	4622.2	4631.7	4588.9
15°	4354.2	4500.1	4625.4	4734.8	4755.4	4783.9	4817.2	4834.7	4826.7	4833.1
17.5°	4530.2	4653.9	4742.7	4801.4	4814.1	4836.3	4866.4	4888.6	4891.7	4893.3
20°	4600.0	4682.4	4768.1	4848.9	4874.3	4896.5	4933.0	4952.0	4948.8	4939.3
22.5°	4587.3	4707.8	4787.1	4853.7	4879.1	4899.7	4931.4	4944.1	4939.3	4929.8
25°	4568.3	4671.3	4741.1	4776.0	4776.0	4791.9	4783.9	4774.4	4763.3	4764.9
27.5°	4477.9	4538.1	4585.7	4625.4	4630.1	4631.7	4626.9	4617.4	4611.1	4596.8
30°	4294.0	4366.9	4389.1	4385.9	4379.6	4378.0	4359.0	4344.7	4327.3	4328.8
32.5°	4078.3	4094.2	4103.7	4076.7	4060.9	4057.7	4040.3	4016.5	3992.7	3967.3
35°	3800.8	3789.7	3767.5	3748.5	3735.8	3716.8	3691.4	3667.6	3637.5	3639.1
37.5°	3532.8	3498.0	3466.2	3413.9	3404.4	3360.0	3310.8	3272.8	3223.6	3196.7
40°	3253.8	3218.9	3179.2	3122.2	3096.8	3055.6	3001.6	2938.2	2898.6	2882.7
42.5°	2987.4	2944.6	2898.6	2830.4	2798.7	2765.4	2708.3	2646.5	2617.9	2613.2
45°	2727.3	2678.2	2633.8	2557.7	2524.4	2484.7	2426.1	2388.0	2346.8	2337.3
47.5°	2476.8	2434.0	2365.8	2307.1	2275.4	2242.1	2181.9	2147.0	2116.9	2105.8
50°	2234.2	2193.0	2140.6	2075.6	2045.5	2013.8	1971.0	1937.7	1902.8	1891.7
52.5°	2017.0	1975.7	1921.8	1871.1	1840.9	1821.9	1782.3	1744.2	1717.3	1699.8
55°	1807.6	1769.6	1720.4	1672.9	1661.8	1636.4	1590.4	1557.1	1539.7	1541.3
57.5°	1615.8	1582.5	1544.4	1498.4	1481.0	1457.2	1427.1	1387.4	1366.8	1360.5
60°	1441.4	1409.6	1377.9	1343.1	1320.9	1303.4	1262.2	1230.5	1203.5	1200.3
62.5°	1274.9	1251.1	1224.1	1189.2	1170.2	1151.2	1114.7	1084.6	1064.0	1057.6
65°	1130.6	1110.0	1078.2	1049.7	1030.7	1011.6	976.8	946.6	929.2	911.8
67.5°	987.9	970.4	946.6	916.5	899.1	880.0	849.9	816.6	796.0	791.2
70°	861.0	842.0	823.0	791.2	775.4	764.3	731.0	697.7	681.8	675.5
72.5°	751.6	731.0	704.0	681.8	672.3	651.7	620.0	597.8	577.2	564.5
75°	637.4	624.7	605.7	580.4	562.9	548.6	523.3	501.1	483.6	470.9
77.5°	543.9	528.0	512.2	486.8	474.1	461.4	434.5	415.4	398.0	391.7
80°	456.7	442.4	420.2	401.2	390.1	379.0	358.4	337.7	325.1	318.7
82.5°	377.4	364.7	347.3	331.4	318.7	310.8	291.8	274.3	263.2	253.7
85°	312.4	296.5	280.7	266.4	256.9	250.5	236.3	223.6	209.3	206.1
87.5°	256.9	244.2	229.9	215.6	209.3	201.4	188.7	179.2	168.1	163.3
90°	220.4	204.5	191.9	180.8	174.4	169.7	160.2	147.5	139.5	134.8
92.5°	199.8	185.5	174.4	163.3	158.6	153.8	142.7	133.2	125.3	118.9
95°	187.1	172.8	161.7	152.2	147.5	144.3	134.8	125.3	117.3	112.6
97.5°	177.6	161.7	150.6	142.7	138.0	134.8	126.9	118.9	111.0	106.2
100°	169.7	153.8	142.7	134.8	131.6	128.4	120.5	112.6	106.2	101.5
102.5°	166.5	149.1	138.0	131.6	128.4	125.3	117.3	111.0	103.1	98.3
105°	166.5	147.5	136.4	128.4	125.3	122.1	115.8	109.4	101.5	96.7
107.5°	169.7	149.1	136.4	130.0	126.9	123.7	115.8	109.4	101.5	96.7
110°	174.4	153.8	139.5	131.6	128.4	125.3	117.3	111.0	103.1	98.3



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-12-W-RS-UNV-L840-CD2-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	180.8	158.6	144.3	134.8	131.6	128.4	120.5	114.2	106.2	101.5
115°	188.7	164.9	150.6	139.5	136.4	133.2	125.3	117.3	111.0	106.2
117.5°	198.2	174.4	157.0	145.9	142.7	138.0	130.0	122.1	115.8	111.0
120°	207.7	185.5	166.5	153.8	149.1	144.3	136.4	128.4	120.5	115.8
122.5°	218.8	195.0	176.0	163.3	158.6	153.8	144.3	136.4	128.4	122.1
125°	229.9	207.7	187.1	172.8	166.5	161.7	152.2	142.7	136.4	130.0
127.5°	239.4	218.8	198.2	183.9	177.6	171.3	161.7	152.2	144.3	139.5
130°	247.4	229.9	210.9	195.0	188.7	183.9	171.3	161.7	153.8	149.1
132.5°	255.3	239.4	223.6	207.7	201.4	195.0	183.9	172.8	164.9	158.6
135°	260.0	247.4	234.7	220.4	214.1	206.1	195.0	183.9	174.4	168.1
137.5°	260.0	253.7	242.6	231.5	225.2	218.8	206.1	195.0	185.5	180.8
140°	252.1	253.7	248.9	241.0	234.7	229.9	218.8	206.1	196.6	191.9
142.5°	241.0	245.8	248.9	244.2	241.0	237.8	228.3	217.2	207.7	201.4
145°	223.6	233.1	239.4	244.2	242.6	241.0	233.1	225.2	215.6	209.3
147.5°	201.4	215.6	223.6	234.7	237.8	237.8	234.7	228.3	220.4	215.6
150°	169.7	190.3	204.5	215.6	220.4	226.7	226.7	222.0	217.2	212.5
152.5°	120.5	153.8	174.4	190.3	196.6	203.0	210.9	207.7	201.4	198.2
155°	68.2	84.0	126.9	152.2	160.2	168.1	180.8	183.9	182.4	177.6
157.5°	34.9	57.1	71.4	82.5	87.2	99.9	125.3	142.7	141.1	144.3
160°	7.9	9.5	27.0	50.7	57.1	60.3	66.6	71.4	71.4	68.2
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)