

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: P232517

Luminaire Tested: **8SKB1-LD5-12-N-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232517
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-N-UNV-L840-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

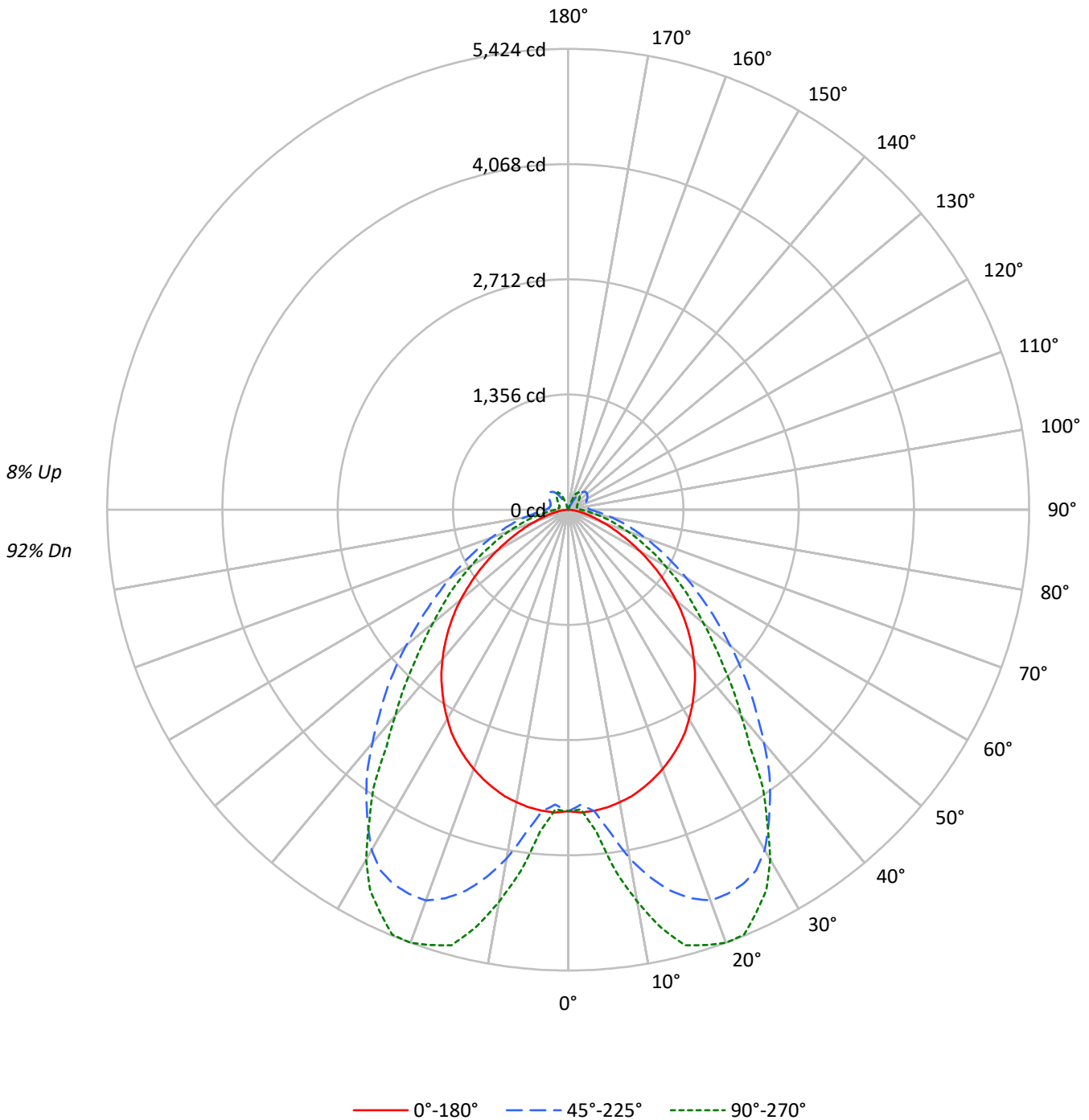
Lumens per Lamp: N/A
Luminaire Lumens: 12890.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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°	19107	19107	19107
5°	19147	17912	18641
10°	18985	19816	21237
15°	18715	21062	22527
20°	18364	21404	21804
25°	17914	20676	20122
30°	17306	19272	17650
35°	16565	17048	14449
40°	15679	14696	11238
45°	14602	12466	9015
50°	13273	10351	7276
55°	11662	8519	5956
60°	9819	6978	4696
65°	7897	5660	3640
70°	6076	4523	2775
75°	4525	3573	2008
80°	3174	2751	1424
85°	1896	2075	975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	2.8
10°-20°	1264.7	9.8
20°-30°	2082.1	16.2
30°-40°	2339.2	18.1
40°-50°	2081.6	16.1
50°-60°	1609.8	12.5
60°-70°	1093.2	8.5
70°-80°	652.4	5.1
80°-90°	349.9	2.7
90°-100°	230.3	1.8
100°-110°	195.3	1.5
110°-120°	180.7	1.4
120°-130°	168.3	1.3
130°-140°	142.8	1.1
140°-150°	97.5	0.8
150°-160°	37.7	0.3
160°-170°	1.2	0.0
170°-180°	0.0	0.0
0°-30°	3710.2	28.8
0°-40°	6049.4	46.9
0°-60°	9740.8	75.6
0°-90°	11836.2	91.8
90°-120°	606.3	4.7
90°-150°	1014.9	7.9
90°-180°	1054.0	8.2
0°-180°	12890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3550	3550	3550	3550	3550	
5°	3555	3507	3562	3752	3803	337
15°	3392	3810	4642	5222	5307	956
25°	3068	3940	4863	5244	5232	1411
35°	2586	3548	4140	4102	3996	1615
45°	1988	2742	3031	2772	2566	1530
55°	1308	1868	2011	1825	1692	1168
65°	669	1161	1255	1132	1001	674
75°	247	700	717	618	517	271
85°	44	440	360	282	226	53
90°	4	374	263	192	148	4
95°	2	362	230	162	124	1
105°	2	329	212	138	106	1
115°	2	303	237	150	117	2
125°	2	249	275	183	143	2
135°	2	96	294	235	185	1
145°	2	9	228	266	230	1
155°	2	5	50	176	195	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°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3567.6	3553.6	3529.3	3527.5	3511.9	3504.9	3506.6	3501.4	3496.2	3487.5	3473.6
5°	3555.4	3529.3	3489.2	3489.2	3497.9	3506.6	3527.5	3546.7	3551.9	3564.1	3562.3
7.5°	3532.7	3492.7	3454.4	3485.7	3517.1	3529.3	3553.6	3588.5	3642.4	3741.7	3839.2
10°	3496.2	3442.2	3430.0	3480.5	3522.3	3558.9	3614.6	3776.5	3926.2	4074.2	4170.0
12.5°	3454.4	3388.2	3405.6	3470.1	3567.6	3637.2	3780.0	3994.1	4112.5	4284.9	4425.9
15°	3391.7	3329.0	3360.4	3456.1	3659.9	3809.6	3889.7	4150.8	4340.6	4483.4	4641.8
17.5°	3323.8	3268.1	3311.6	3480.5	3757.4	3901.9	4030.7	4251.8	4434.7	4645.3	4795.1
20°	3248.9	3200.2	3255.9	3511.9	3804.4	3952.4	4095.1	4305.8	4547.8	4765.5	4894.3
22.5°	3161.9	3118.4	3203.7	3525.8	3821.8	3969.8	4109.1	4354.6	4605.3	4784.6	4894.3
25°	3067.9	3024.3	3141.0	3497.9	3804.4	3940.2	4089.9	4380.7	4586.1	4727.2	4863.0
27.5°	2966.9	2918.1	3094.0	3440.5	3734.7	3887.9	4056.8	4330.2	4492.1	4648.8	4786.4
30°	2843.3	2799.7	3012.2	3356.9	3637.2	3818.3	3962.8	4208.3	4363.3	4518.2	4624.4
32.5°	2719.6	2677.9	2912.9	3238.5	3525.8	3696.4	3835.7	4027.2	4203.1	4323.2	4389.4
35°	2585.6	2538.6	2798.0	3094.0	3400.4	3548.4	3665.1	3839.2	3987.2	4076.0	4140.4
37.5°	2451.5	2401.0	2651.7	2942.5	3235.0	3370.8	3468.3	3644.2	3757.4	3830.5	3884.5
40°	2300.0	2247.8	2500.3	2771.9	3062.6	3158.4	3259.4	3416.1	3499.7	3558.9	3585.0
42.5°	2146.8	2094.6	2336.6	2592.5	2852.0	2946.0	3050.5	3174.1	3255.9	3290.7	3290.7
45°	1988.4	1937.9	2167.7	2414.9	2634.3	2742.3	2834.6	2933.8	3001.7	3029.6	3031.3
47.5°	1823.0	1781.2	2000.6	2225.2	2430.6	2524.6	2596.0	2691.8	2751.0	2757.9	2756.2
50°	1654.1	1617.5	1814.3	2035.4	2218.2	2301.8	2364.5	2453.2	2500.3	2498.5	2489.8
52.5°	1476.5	1453.8	1636.7	1838.6	2004.0	2078.9	2134.6	2213.0	2251.3	2251.3	2244.3
55°	1307.6	1293.7	1452.1	1647.1	1802.1	1868.2	1920.5	1990.1	2021.4	2021.4	2011.0
57.5°	1137.0	1135.2	1283.2	1457.3	1605.3	1664.5	1720.2	1781.2	1809.0	1809.0	1791.6
60°	969.8	978.5	1124.8	1285.0	1420.8	1478.2	1527.0	1586.2	1603.6	1607.1	1603.6
62.5°	814.8	837.5	976.8	1123.0	1258.8	1307.6	1351.1	1408.6	1422.5	1427.7	1419.0
65°	668.6	703.4	844.4	983.7	1110.8	1161.3	1199.6	1239.7	1251.9	1257.1	1255.4
67.5°	548.5	585.0	726.1	863.6	980.3	1020.3	1058.6	1093.4	1095.2	1103.9	1096.9
70°	424.8	480.6	621.6	752.2	861.9	898.4	929.8	954.1	959.4	961.1	959.4
72.5°	327.3	393.5	527.6	656.4	755.6	790.5	814.8	834.0	834.0	835.7	830.5
75°	247.2	327.3	457.9	576.3	665.1	699.9	719.1	731.3	724.3	722.6	717.3
77.5°	179.3	271.6	395.2	506.7	590.2	616.4	633.8	635.5	625.1	623.3	612.9
80°	123.6	221.1	341.3	445.7	522.3	548.5	557.2	550.2	541.5	531.0	517.1
82.5°	81.8	179.3	296.0	395.2	466.6	487.5	494.5	484.0	471.8	454.4	431.8
85°	43.5	144.5	257.7	353.4	421.4	440.5	444.0	424.8	405.7	383.0	360.4
87.5°	19.2	118.4	229.8	325.6	384.8	398.7	400.5	379.6	355.2	329.1	301.2
90°	3.5	101.0	212.4	304.7	362.2	374.3	374.3	346.5	322.1	294.3	262.9
92.5°	1.7	95.8	207.2	297.7	355.2	367.4	365.6	336.0	306.4	275.1	243.8
95°	1.7	83.6	195.0	290.8	350.0	362.2	360.4	329.1	297.7	264.7	229.8
97.5°	1.7	69.6	182.8	278.6	341.3	353.4	353.4	323.8	292.5	257.7	221.1
100°	0.0	54.0	168.9	266.4	329.1	344.7	346.5	318.6	285.5	250.7	215.9
102.5°	0.0	36.6	156.7	255.9	320.4	336.0	339.5	316.9	282.1	247.2	212.4
105°	1.7	22.6	141.0	243.8	311.7	329.1	334.3	315.1	280.3	247.2	212.4
107.5°	1.7	15.7	125.4	231.6	304.7	323.8	330.8	315.1	282.1	249.0	215.9
110°	1.7	13.9	106.2	219.4	296.0	316.9	327.3	316.9	285.5	254.2	221.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.7	10.4	80.1	203.7	285.5	309.9	323.8	318.6	290.8	259.4	228.1
115°	1.7	8.7	54.0	188.0	275.1	303.0	320.4	320.4	296.0	266.4	236.8
117.5°	1.7	8.7	36.6	167.1	262.9	294.3	313.4	322.1	303.0	273.4	247.2
120°	1.7	7.0	17.4	142.8	247.2	282.1	306.4	322.1	308.2	282.1	255.9
122.5°	1.7	7.0	13.9	109.7	229.8	268.1	296.0	320.4	313.4	289.0	266.4
125°	1.7	5.2	12.2	73.1	207.2	249.0	282.1	315.1	315.1	296.0	275.1
127.5°	1.7	5.2	10.4	52.2	177.6	228.1	262.9	306.4	315.1	301.2	283.8
130°	1.7	5.2	8.7	15.7	135.8	198.5	240.3	292.5	311.7	304.7	289.0
132.5°	1.7	3.5	8.7	12.2	87.1	155.0	208.9	269.9	301.2	304.7	294.3
135°	1.7	3.5	7.0	10.4	62.7	95.8	167.1	242.0	282.1	294.3	294.3
137.5°	1.7	3.5	7.0	8.7	27.9	71.4	104.5	208.9	257.7	280.3	285.5
140°	1.7	3.5	5.2	7.0	10.4	38.3	74.9	165.4	228.1	259.4	273.4
142.5°	1.7	3.5	5.2	7.0	8.7	8.7	45.3	95.8	191.5	231.6	254.2
145°	1.7	3.5	3.5	5.2	7.0	8.7	8.7	73.1	137.5	198.5	228.1
147.5°	1.7	1.7	3.5	5.2	7.0	7.0	7.0	33.1	81.8	151.5	195.0
150°	1.7	1.7	3.5	3.5	5.2	5.2	7.0	7.0	54.0	85.3	144.5
152.5°	1.7	1.7	3.5	3.5	5.2	5.2	5.2	7.0	7.0	57.5	80.1
155°	1.7	1.7	3.5	3.5	3.5	5.2	5.2	5.2	5.2	7.0	50.5
157.5°	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2	7.0	7.0
160°	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2	7.0
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°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3491.0	3517.1	3517.1	3539.7	3551.9	3548.4	3551.9	3558.9	3538.0	3531.0
5°	3600.7	3652.9	3679.0	3738.2	3752.1	3778.2	3787.0	3816.6	3823.5	3802.6
7.5°	3945.4	4053.3	4123.0	4194.4	4225.7	4241.4	4269.2	4288.4	4318.0	4295.4
10°	4269.2	4399.8	4499.1	4577.4	4596.6	4612.2	4645.3	4692.3	4688.9	4685.4
12.5°	4549.6	4664.5	4786.4	4899.5	4957.0	4969.2	5017.9	5075.4	5085.8	5038.8
15°	4781.1	4941.3	5078.9	5199.0	5221.6	5253.0	5289.5	5308.7	5300.0	5307.0
17.5°	4974.4	5110.2	5207.7	5272.1	5286.1	5310.4	5343.5	5367.9	5371.4	5373.1
20°	5051.0	5141.6	5235.6	5324.4	5352.2	5376.6	5416.7	5437.5	5434.1	5423.6
22.5°	5037.1	5169.4	5256.5	5329.6	5357.5	5380.1	5414.9	5428.8	5423.6	5413.2
25°	5016.2	5129.4	5206.0	5244.3	5244.3	5261.7	5253.0	5242.5	5230.3	5232.1
27.5°	4916.9	4983.1	5035.3	5078.9	5084.1	5085.8	5080.6	5070.2	5063.2	5047.5
30°	4715.0	4795.1	4819.4	4816.0	4809.0	4807.3	4786.4	4770.7	4751.5	4753.3
32.5°	4478.2	4495.6	4506.0	4476.4	4459.0	4455.5	4436.4	4410.3	4384.2	4356.3
35°	4173.5	4161.3	4136.9	4116.0	4102.1	4081.2	4053.3	4027.2	3994.1	3995.9
37.5°	3879.2	3840.9	3806.1	3748.6	3738.2	3689.5	3635.5	3593.7	3539.7	3510.1
40°	3572.8	3534.5	3491.0	3428.3	3400.4	3355.2	3296.0	3226.3	3182.8	3165.4
42.5°	3280.3	3233.3	3182.8	3107.9	3073.1	3036.5	2973.8	2905.9	2874.6	2869.4
45°	2994.7	2940.8	2892.0	2808.4	2771.9	2728.3	2663.9	2622.1	2576.9	2566.4
47.5°	2719.6	2672.6	2597.8	2533.3	2498.5	2462.0	2395.8	2357.5	2324.4	2312.2
50°	2453.2	2408.0	2350.5	2279.1	2246.1	2211.2	2164.2	2127.7	2089.4	2077.2
52.5°	2214.7	2169.4	2110.2	2054.5	2021.4	2000.6	1957.0	1915.2	1885.6	1866.5
55°	1984.9	1943.1	1889.1	1836.9	1824.7	1796.8	1746.4	1709.8	1690.6	1692.4
57.5°	1774.2	1737.6	1695.9	1645.4	1626.2	1600.1	1567.0	1523.5	1500.9	1493.9
60°	1582.7	1547.9	1513.0	1474.7	1450.4	1431.2	1385.9	1351.1	1321.5	1318.0
62.5°	1399.9	1373.8	1344.2	1305.8	1285.0	1264.1	1224.0	1190.9	1168.3	1161.3
65°	1241.4	1218.8	1184.0	1152.6	1131.7	1110.8	1072.5	1039.5	1020.3	1001.1
67.5°	1084.7	1065.6	1039.5	1006.4	987.2	966.3	933.2	896.7	874.0	868.8
70°	945.4	924.5	903.6	868.8	851.4	839.2	802.7	766.1	748.7	741.7
72.5°	825.3	802.7	773.1	748.7	738.2	715.6	680.8	656.4	633.8	619.8
75°	699.9	686.0	665.1	637.3	618.1	602.4	574.6	550.2	531.0	517.1
77.5°	597.2	579.8	562.4	534.5	520.6	506.7	477.1	456.2	437.0	430.1
80°	501.4	485.8	461.4	440.5	428.3	416.1	393.5	370.9	356.9	350.0
82.5°	414.4	400.5	381.3	363.9	350.0	341.3	320.4	301.2	289.0	278.6
85°	343.0	325.6	308.2	292.5	282.1	275.1	259.4	245.5	229.8	226.3
87.5°	282.1	268.1	252.5	236.8	229.8	221.1	207.2	196.7	184.6	179.3
90°	242.0	224.6	210.7	198.5	191.5	186.3	175.9	161.9	153.2	148.0
92.5°	219.4	203.7	191.5	179.3	174.1	168.9	156.7	146.3	137.5	130.6
95°	205.5	189.8	177.6	167.1	161.9	158.4	148.0	137.5	128.8	123.6
97.5°	195.0	177.6	165.4	156.7	151.5	148.0	139.3	130.6	121.9	116.7
100°	186.3	168.9	156.7	148.0	144.5	141.0	132.3	123.6	116.7	111.4
102.5°	182.8	163.7	151.5	144.5	141.0	137.5	128.8	121.9	113.2	107.9
105°	182.8	161.9	149.7	141.0	137.5	134.1	127.1	120.1	111.4	106.2
107.5°	186.3	163.7	149.7	142.8	139.3	135.8	127.1	120.1	111.4	106.2
110°	191.5	168.9	153.2	144.5	141.0	137.5	128.8	121.9	113.2	107.9



TEST NUMBER: P232517

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	198.5	174.1	158.4	148.0	144.5	141.0	132.3	125.4	116.7	111.4
115°	207.2	181.1	165.4	153.2	149.7	146.3	137.5	128.8	121.9	116.7
117.5°	217.6	191.5	172.4	160.2	156.7	151.5	142.8	134.1	127.1	121.9
120°	228.1	203.7	182.8	168.9	163.7	158.4	149.7	141.0	132.3	127.1
122.5°	240.3	214.2	193.3	179.3	174.1	168.9	158.4	149.7	141.0	134.1
125°	252.5	228.1	205.5	189.8	182.8	177.6	167.1	156.7	149.7	142.8
127.5°	262.9	240.3	217.6	202.0	195.0	188.0	177.6	167.1	158.4	153.2
130°	271.6	252.5	231.6	214.2	207.2	202.0	188.0	177.6	168.9	163.7
132.5°	280.3	262.9	245.5	228.1	221.1	214.2	202.0	189.8	181.1	174.1
135°	285.5	271.6	257.7	242.0	235.1	226.3	214.2	202.0	191.5	184.6
137.5°	285.5	278.6	266.4	254.2	247.2	240.3	226.3	214.2	203.7	198.5
140°	276.8	278.6	273.4	264.7	257.7	252.5	240.3	226.3	215.9	210.7
142.5°	264.7	269.9	273.4	268.1	264.7	261.2	250.7	238.5	228.1	221.1
145°	245.5	255.9	262.9	268.1	266.4	264.7	255.9	247.2	236.8	229.8
147.5°	221.1	236.8	245.5	257.7	261.2	261.2	257.7	250.7	242.0	236.8
150°	186.3	208.9	224.6	236.8	242.0	249.0	249.0	243.8	238.5	233.3
152.5°	132.3	168.9	191.5	208.9	215.9	222.9	231.6	228.1	221.1	217.6
155°	74.9	92.3	139.3	167.1	175.9	184.6	198.5	202.0	200.2	195.0
157.5°	38.3	62.7	78.4	90.5	95.8	109.7	137.5	156.7	155.0	158.4
160°	8.7	10.4	29.6	55.7	62.7	66.2	73.1	78.4	78.4	74.9
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)