

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: P232520

Luminaire Tested: **8SKB1-LD5-14-N-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232520
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-LD5-14-N-UNV-L840-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14806.1 lumens
Efficiency: N/A
Efficacy: 140.5 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

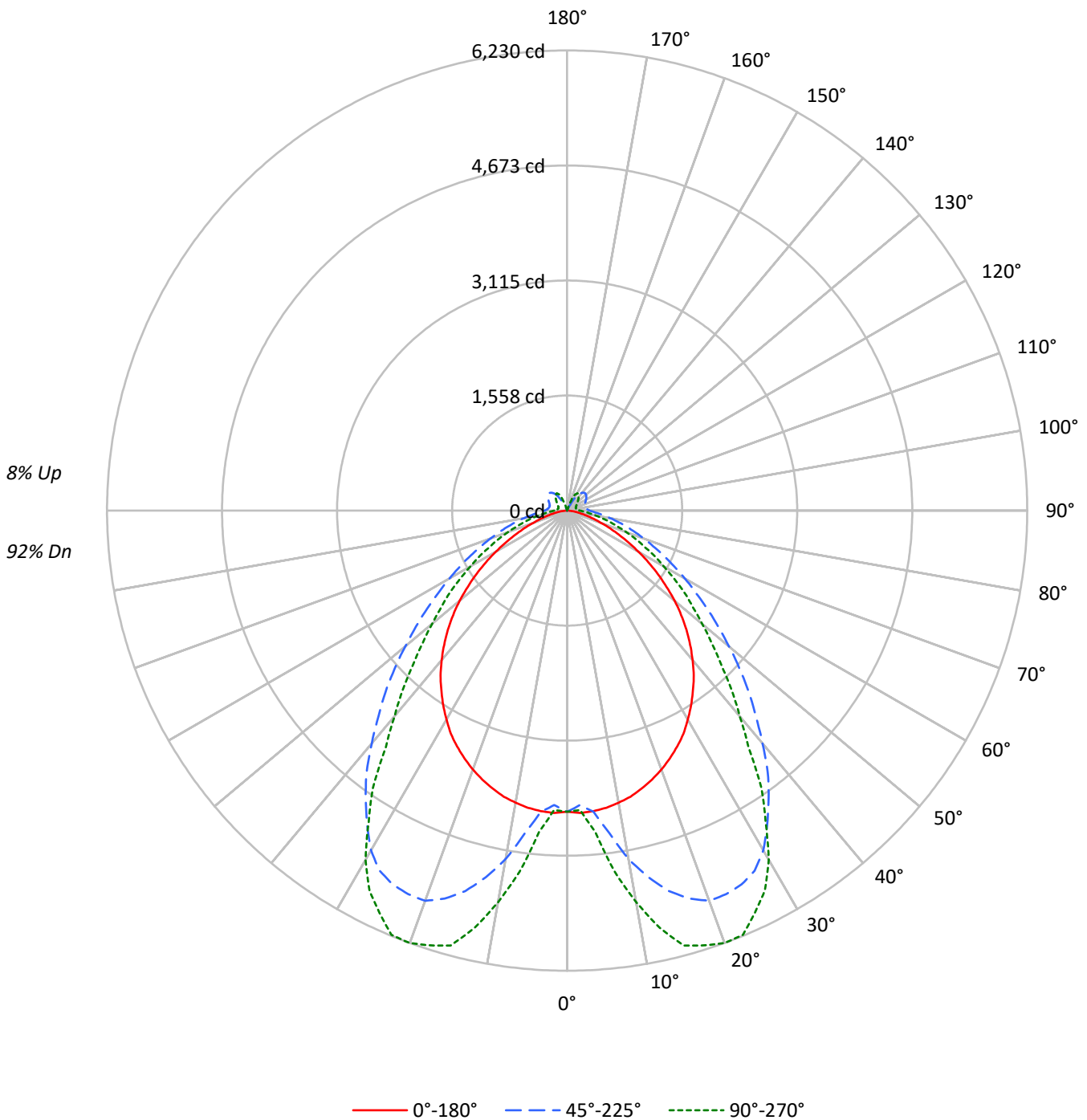
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21947	21947	21947
5°	21993	20575	21412
10°	21807	22762	24393
15°	21497	24193	25875
20°	21094	24585	25045
25°	20576	23749	23113
30°	19878	22137	20274
35°	19027	19581	16597
40°	18010	16880	12908
45°	16772	14319	10355
50°	15245	11890	8357
55°	13396	9785	6841
60°	11279	8015	5394
65°	9071	6502	4182
70°	6980	5196	3188
75°	5198	4104	2307
80°	3647	3161	1636
85°	2179	2384	1120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	2.8
10°-20°	1452.7	9.8
20°-30°	2391.6	16.2
30°-40°	2686.8	18.1
40°-50°	2391.0	16.1
50°-60°	1849.1	12.5
60°-70°	1255.7	8.5
70°-80°	749.4	5.1
80°-90°	401.9	2.7
90°-100°	264.5	1.8
100°-110°	224.4	1.5
110°-120°	207.6	1.4
120°-130°	193.4	1.3
130°-140°	164.0	1.1
140°-150°	112.0	0.8
150°-160°	43.3	0.3
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	4261.7	28.8
0°-40°	6948.6	46.9
0°-60°	11188.7	75.6
0°-90°	13595.7	91.8
90°-120°	696.4	4.7
90°-150°	1165.8	7.9
90°-180°	1210.0	8.2
0°-180°	14806.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4078	4078	4078	4078	4078	
5°	4084	4028	4092	4310	4368	388
15°	3896	4376	5332	5998	6096	1098
25°	3524	4526	5586	6024	6010	1621
35°	2970	4076	4756	4712	4590	1856
45°	2284	3150	3482	3184	2948	1757
55°	1502	2146	2310	2096	1944	1341
65°	768	1334	1442	1300	1150	774
75°	284	804	824	710	594	311
85°	50	506	414	324	260	61
90°	4	430	302	220	170	4
95°	2	416	264	186	142	1
105°	2	378	244	158	122	1
115°	2	348	272	172	134	2
125°	2	286	316	210	164	2
135°	2	110	338	270	212	2
145°	2	10	262	306	264	1
155°	2	6	58	202	224	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°	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9
2.5°	4097.9	4081.9	4053.9	4051.9	4033.9	4025.9	4027.9	4021.9	4015.9	4005.9	3989.9
5°	4083.9	4053.9	4007.9	4007.9	4017.9	4027.9	4051.9	4073.9	4079.9	4093.9	4091.9
7.5°	4057.9	4011.9	3967.9	4003.9	4039.9	4053.9	4081.9	4121.9	4183.9	4297.9	4409.9
10°	4015.9	3953.9	3939.9	3997.9	4045.9	4087.9	4151.9	4337.9	4509.9	4679.8	4789.8
12.5°	3967.9	3891.9	3911.9	3985.9	4097.9	4177.9	4341.9	4587.8	4723.8	4921.8	5083.8
15°	3895.9	3823.9	3859.9	3969.9	4203.9	4375.9	4467.9	4767.8	4985.8	5149.8	5331.8
17.5°	3817.9	3753.9	3803.9	3997.9	4315.9	4481.9	4629.8	4883.8	5093.8	5335.8	5507.8
20°	3731.9	3675.9	3739.9	4033.9	4369.9	4539.8	4703.8	4945.8	5223.8	5473.8	5621.8
22.5°	3631.9	3581.9	3679.9	4049.9	4389.9	4559.8	4719.8	5001.8	5289.8	5495.8	5621.8
25°	3523.9	3473.9	3607.9	4017.9	4369.9	4525.9	4697.8	5031.8	5267.8	5429.8	5585.8
27.5°	3407.9	3351.9	3553.9	3951.9	4289.9	4465.9	4659.8	4973.8	5159.8	5339.8	5497.8
30°	3265.9	3215.9	3459.9	3855.9	4177.9	4385.9	4551.8	4833.8	5011.8	5189.8	5311.8
32.5°	3123.9	3075.9	3345.9	3719.9	4049.9	4245.9	4405.9	4625.8	4827.8	4965.8	5041.8
35°	2969.9	2915.9	3213.9	3553.9	3905.9	4075.9	4209.9	4409.9	4579.8	4681.8	4755.8
37.5°	2815.9	2757.9	3045.9	3379.9	3715.9	3871.9	3983.9	4185.9	4315.9	4399.9	4461.9
40°	2641.9	2581.9	2871.9	3183.9	3517.9	3627.9	3743.9	3923.9	4019.9	4087.9	4117.9
42.5°	2465.9	2405.9	2683.9	2977.9	3275.9	3383.9	3503.9	3645.9	3739.9	3779.9	3779.9
45°	2283.9	2225.9	2489.9	2773.9	3025.9	3149.9	3255.9	3369.9	3447.9	3479.9	3481.9
47.5°	2093.9	2045.9	2297.9	2555.9	2791.9	2899.9	2981.9	3091.9	3159.9	3167.9	3165.9
50°	1899.9	1857.9	2083.9	2337.9	2547.9	2643.9	2715.9	2817.9	2871.9	2869.9	2859.9
52.5°	1695.9	1669.9	1879.9	2111.9	2301.9	2387.9	2451.9	2541.9	2585.9	2585.9	2577.9
55°	1502.0	1486.0	1667.9	1891.9	2069.9	2145.9	2205.9	2285.9	2321.9	2321.9	2309.9
57.5°	1306.0	1304.0	1474.0	1673.9	1843.9	1911.9	1975.9	2045.9	2077.9	2077.9	2057.9
60°	1114.0	1124.0	1292.0	1476.0	1631.9	1697.9	1753.9	1821.9	1841.9	1845.9	1841.9
62.5°	936.0	962.0	1122.0	1290.0	1446.0	1502.0	1551.9	1617.9	1633.9	1639.9	1629.9
65°	768.0	808.0	970.0	1130.0	1276.0	1334.0	1378.0	1424.0	1438.0	1444.0	1442.0
67.5°	630.0	672.0	834.0	992.0	1126.0	1172.0	1216.0	1256.0	1258.0	1268.0	1260.0
70°	488.0	552.0	714.0	864.0	990.0	1032.0	1068.0	1096.0	1102.0	1104.0	1102.0
72.5°	376.0	452.0	606.0	754.0	868.0	908.0	936.0	958.0	958.0	960.0	954.0
75°	284.0	376.0	526.0	662.0	764.0	804.0	826.0	840.0	832.0	830.0	824.0
77.5°	206.0	312.0	454.0	582.0	678.0	708.0	728.0	730.0	718.0	716.0	704.0
80°	142.0	254.0	392.0	512.0	600.0	630.0	640.0	632.0	622.0	610.0	594.0
82.5°	94.0	206.0	340.0	454.0	536.0	560.0	568.0	556.0	542.0	522.0	496.0
85°	50.0	166.0	296.0	406.0	484.0	506.0	510.0	488.0	466.0	440.0	414.0
87.5°	22.0	136.0	264.0	374.0	442.0	458.0	460.0	436.0	408.0	378.0	346.0
90°	4.0	116.0	244.0	350.0	416.0	430.0	430.0	398.0	370.0	338.0	302.0
92.5°	2.0	110.0	238.0	342.0	408.0	422.0	420.0	386.0	352.0	316.0	280.0
95°	2.0	96.0	224.0	334.0	402.0	416.0	414.0	378.0	342.0	304.0	264.0
97.5°	2.0	80.0	210.0	320.0	392.0	406.0	406.0	372.0	336.0	296.0	254.0
100°	0.0	62.0	194.0	306.0	378.0	396.0	398.0	366.0	328.0	288.0	248.0
102.5°	0.0	42.0	180.0	294.0	368.0	386.0	390.0	364.0	324.0	284.0	244.0
105°	2.0	26.0	162.0	280.0	358.0	378.0	384.0	362.0	322.0	284.0	244.0
107.5°	2.0	18.0	144.0	266.0	350.0	372.0	380.0	362.0	324.0	286.0	248.0
110°	2.0	16.0	122.0	252.0	340.0	364.0	376.0	364.0	328.0	292.0	254.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.0	12.0	92.0	234.0	328.0	356.0	372.0	366.0	334.0	298.0	262.0
115°	2.0	10.0	62.0	216.0	316.0	348.0	368.0	368.0	340.0	306.0	272.0
117.5°	2.0	10.0	42.0	192.0	302.0	338.0	360.0	370.0	348.0	314.0	284.0
120°	2.0	8.0	20.0	164.0	284.0	324.0	352.0	370.0	354.0	324.0	294.0
122.5°	2.0	8.0	16.0	126.0	264.0	308.0	340.0	368.0	360.0	332.0	306.0
125°	2.0	6.0	14.0	84.0	238.0	286.0	324.0	362.0	362.0	340.0	316.0
127.5°	2.0	6.0	12.0	60.0	204.0	262.0	302.0	352.0	362.0	346.0	326.0
130°	2.0	6.0	10.0	18.0	156.0	228.0	276.0	336.0	358.0	350.0	332.0
132.5°	2.0	4.0	10.0	14.0	100.0	178.0	240.0	310.0	346.0	350.0	338.0
135°	2.0	4.0	8.0	12.0	72.0	110.0	192.0	278.0	324.0	338.0	338.0
137.5°	2.0	4.0	8.0	10.0	32.0	82.0	120.0	240.0	296.0	322.0	328.0
140°	2.0	4.0	6.0	8.0	12.0	44.0	86.0	190.0	262.0	298.0	314.0
142.5°	2.0	4.0	6.0	8.0	10.0	10.0	52.0	110.0	220.0	266.0	292.0
145°	2.0	4.0	4.0	6.0	8.0	10.0	10.0	84.0	158.0	228.0	262.0
147.5°	2.0	2.0	4.0	6.0	8.0	8.0	8.0	38.0	94.0	174.0	224.0
150°	2.0	2.0	4.0	4.0	6.0	6.0	8.0	8.0	62.0	98.0	166.0
152.5°	2.0	2.0	4.0	4.0	6.0	6.0	6.0	8.0	8.0	66.0	92.0
155°	2.0	2.0	4.0	4.0	4.0	6.0	6.0	6.0	6.0	8.0	58.0
157.5°	2.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	8.0	8.0
160°	2.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	8.0
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°	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9	4077.9
2.5°	4009.9	4039.9	4039.9	4065.9	4079.9	4075.9	4079.9	4087.9	4063.9	4055.9
5°	4135.9	4195.9	4225.9	4293.9	4309.9	4339.9	4349.9	4383.9	4391.9	4367.9
7.5°	4531.8	4655.8	4735.8	4817.8	4853.8	4871.8	4903.8	4925.8	4959.8	4933.8
10°	4903.8	5053.8	5167.8	5257.8	5279.8	5297.8	5335.8	5389.8	5385.8	5381.8
12.5°	5225.8	5357.8	5497.8	5627.8	5693.8	5707.8	5763.8	5829.8	5841.8	5787.8
15°	5491.8	5675.8	5833.8	5971.8	5997.8	6033.8	6075.8	6097.8	6087.8	6095.8
17.5°	5713.8	5869.8	5981.8	6055.8	6071.8	6099.8	6137.8	6165.8	6169.8	6171.8
20°	5801.8	5905.8	6013.8	6115.8	6147.8	6175.8	6221.8	6245.8	6241.8	6229.8
22.5°	5785.8	5937.8	6037.8	6121.8	6153.8	6179.8	6219.8	6235.8	6229.8	6217.8
25°	5761.8	5891.8	5979.8	6023.8	6023.8	6043.8	6033.8	6021.8	6007.8	6009.8
27.5°	5647.8	5723.8	5783.8	5833.8	5839.8	5841.8	5835.8	5823.8	5815.8	5797.8
30°	5415.8	5507.8	5535.8	5531.8	5523.8	5521.8	5497.8	5479.8	5457.8	5459.8
32.5°	5143.8	5163.8	5175.8	5141.8	5121.8	5117.8	5095.8	5065.8	5035.8	5003.8
35°	4793.8	4779.8	4751.8	4727.8	4711.8	4687.8	4655.8	4625.8	4587.8	4589.8
37.5°	4455.9	4411.9	4371.9	4305.9	4293.9	4237.9	4175.9	4127.9	4065.9	4031.9
40°	4103.9	4059.9	4009.9	3937.9	3905.9	3853.9	3785.9	3705.9	3655.9	3635.9
42.5°	3767.9	3713.9	3655.9	3569.9	3529.9	3487.9	3415.9	3337.9	3301.9	3295.9
45°	3439.9	3377.9	3321.9	3225.9	3183.9	3133.9	3059.9	3011.9	2959.9	2947.9
47.5°	3123.9	3069.9	2983.9	2909.9	2869.9	2827.9	2751.9	2707.9	2669.9	2655.9
50°	2817.9	2765.9	2699.9	2617.9	2579.9	2539.9	2485.9	2443.9	2399.9	2385.9
52.5°	2543.9	2491.9	2423.9	2359.9	2321.9	2297.9	2247.9	2199.9	2165.9	2143.9
55°	2279.9	2231.9	2169.9	2109.9	2095.9	2063.9	2005.9	1963.9	1941.9	1943.9
57.5°	2037.9	1995.9	1947.9	1889.9	1867.9	1837.9	1799.9	1749.9	1723.9	1715.9
60°	1817.9	1777.9	1737.9	1693.9	1665.9	1643.9	1591.9	1551.9	1517.9	1513.9
62.5°	1607.9	1577.9	1543.9	1500.0	1476.0	1452.0	1406.0	1368.0	1342.0	1334.0
65°	1426.0	1400.0	1360.0	1324.0	1300.0	1276.0	1232.0	1194.0	1172.0	1150.0
67.5°	1246.0	1224.0	1194.0	1156.0	1134.0	1110.0	1072.0	1030.0	1004.0	998.0
70°	1086.0	1062.0	1038.0	998.0	978.0	964.0	922.0	880.0	860.0	852.0
72.5°	948.0	922.0	888.0	860.0	848.0	822.0	782.0	754.0	728.0	712.0
75°	804.0	788.0	764.0	732.0	710.0	692.0	660.0	632.0	610.0	594.0
77.5°	686.0	666.0	646.0	614.0	598.0	582.0	548.0	524.0	502.0	494.0
80°	576.0	558.0	530.0	506.0	492.0	478.0	452.0	426.0	410.0	402.0
82.5°	476.0	460.0	438.0	418.0	402.0	392.0	368.0	346.0	332.0	320.0
85°	394.0	374.0	354.0	336.0	324.0	316.0	298.0	282.0	264.0	260.0
87.5°	324.0	308.0	290.0	272.0	264.0	254.0	238.0	226.0	212.0	206.0
90°	278.0	258.0	242.0	228.0	220.0	214.0	202.0	186.0	176.0	170.0
92.5°	252.0	234.0	220.0	206.0	200.0	194.0	180.0	168.0	158.0	150.0
95°	236.0	218.0	204.0	192.0	186.0	182.0	170.0	158.0	148.0	142.0
97.5°	224.0	204.0	190.0	180.0	174.0	170.0	160.0	150.0	140.0	134.0
100°	214.0	194.0	180.0	170.0	166.0	162.0	152.0	142.0	134.0	128.0
102.5°	210.0	188.0	174.0	166.0	162.0	158.0	148.0	140.0	130.0	124.0
105°	210.0	186.0	172.0	162.0	158.0	154.0	146.0	138.0	128.0	122.0
107.5°	214.0	188.0	172.0	164.0	160.0	156.0	146.0	138.0	128.0	122.0
110°	220.0	194.0	176.0	166.0	162.0	158.0	148.0	140.0	130.0	124.0



TEST NUMBER: P232520

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	228.0	200.0	182.0	170.0	166.0	162.0	152.0	144.0	134.0	128.0
115°	238.0	208.0	190.0	176.0	172.0	168.0	158.0	148.0	140.0	134.0
117.5°	250.0	220.0	198.0	184.0	180.0	174.0	164.0	154.0	146.0	140.0
120°	262.0	234.0	210.0	194.0	188.0	182.0	172.0	162.0	152.0	146.0
122.5°	276.0	246.0	222.0	206.0	200.0	194.0	182.0	172.0	162.0	154.0
125°	290.0	262.0	236.0	218.0	210.0	204.0	192.0	180.0	172.0	164.0
127.5°	302.0	276.0	250.0	232.0	224.0	216.0	204.0	192.0	182.0	176.0
130°	312.0	290.0	266.0	246.0	238.0	232.0	216.0	204.0	194.0	188.0
132.5°	322.0	302.0	282.0	262.0	254.0	246.0	232.0	218.0	208.0	200.0
135°	328.0	312.0	296.0	278.0	270.0	260.0	246.0	232.0	220.0	212.0
137.5°	328.0	320.0	306.0	292.0	284.0	276.0	260.0	246.0	234.0	228.0
140°	318.0	320.0	314.0	304.0	296.0	290.0	276.0	260.0	248.0	242.0
142.5°	304.0	310.0	314.0	308.0	304.0	300.0	288.0	274.0	262.0	254.0
145°	282.0	294.0	302.0	308.0	306.0	304.0	294.0	284.0	272.0	264.0
147.5°	254.0	272.0	282.0	296.0	300.0	300.0	296.0	288.0	278.0	272.0
150°	214.0	240.0	258.0	272.0	278.0	286.0	286.0	280.0	274.0	268.0
152.5°	152.0	194.0	220.0	240.0	248.0	256.0	266.0	262.0	254.0	250.0
155°	86.0	106.0	160.0	192.0	202.0	212.0	228.0	232.0	230.0	224.0
157.5°	44.0	72.0	90.0	104.0	110.0	126.0	158.0	180.0	178.0	182.0
160°	10.0	12.0	34.0	64.0	72.0	76.0	84.0	90.0	90.0	86.0
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)