

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-LD5-14-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-LD5-14-W-RS-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

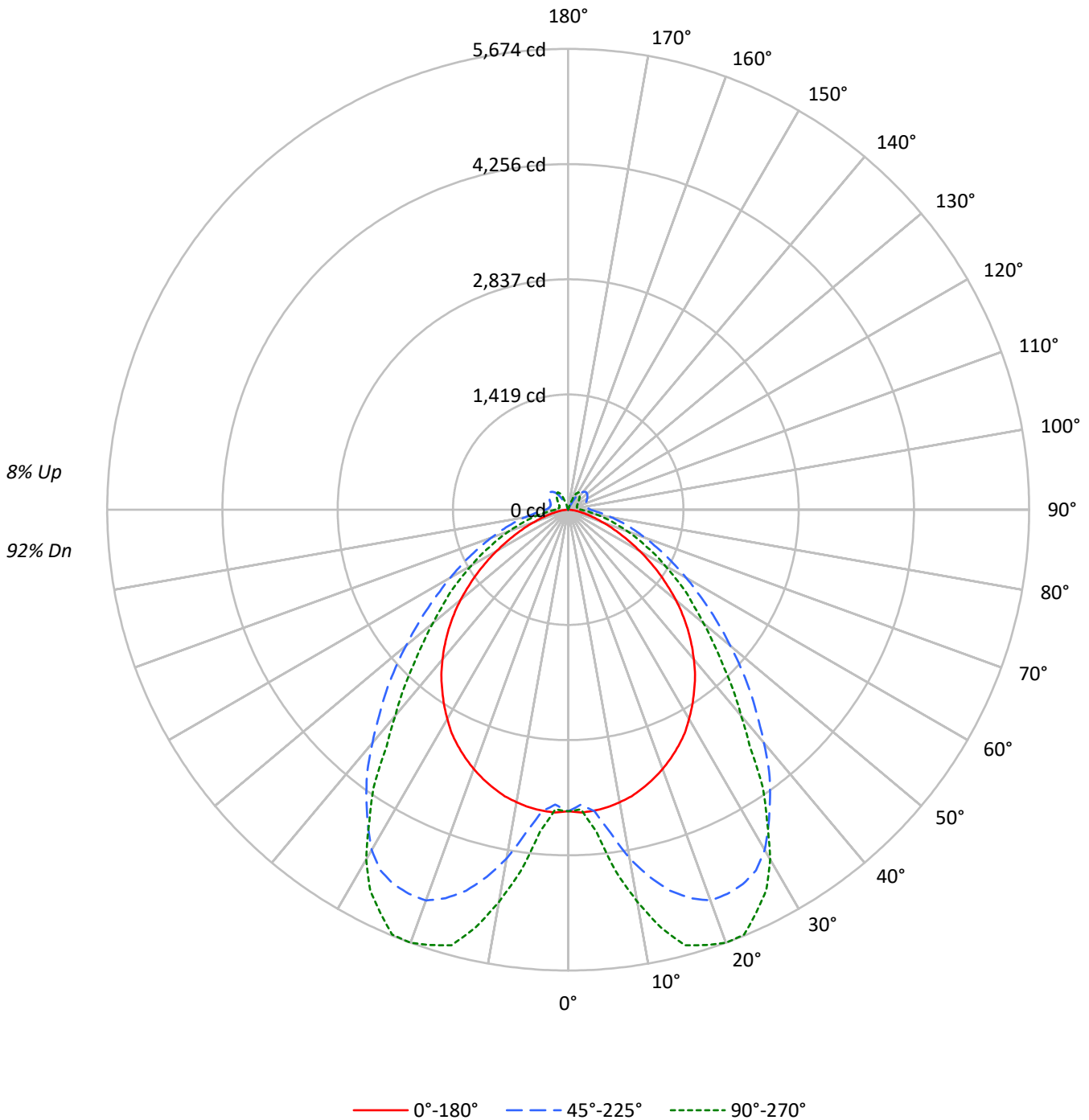
Lumens per Lamp: N/A
Luminaire Lumens: 13484.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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	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°	19988	19988	19988
5°	20029	18738	19500
10°	19859	20730	22215
15°	19578	22033	23565
20°	19211	22390	22809
25°	18739	21628	21050
30°	18103	20160	18464
35°	17328	17833	15115
40°	16402	15373	11755
45°	15274	13041	9431
50°	13884	10828	7611
55°	12199	8912	6230
60°	10271	7300	4913
65°	8261	5921	3808
70°	6356	4732	2903
75°	4733	3737	2101
80°	3321	2878	1490
85°	1983	2171	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	2.8
10°-20°	1322.9	9.8
20°-30°	2178.1	16.2
30°-40°	2446.9	18.1
40°-50°	2177.5	16.1
50°-60°	1684.0	12.5
60°-70°	1143.5	8.5
70°-80°	682.4	5.1
80°-90°	366.0	2.7
90°-100°	240.9	1.8
100°-110°	204.3	1.5
110°-120°	189.0	1.4
120°-130°	176.1	1.3
130°-140°	149.3	1.1
140°-150°	102.0	0.8
150°-160°	39.4	0.3
160°-170°	1.2	0.0
170°-180°	0.0	0.0
0°-30°	3881.2	28.8
0°-40°	6328.2	46.9
0°-60°	10189.7	75.6
0°-90°	12381.7	91.8
90°-120°	634.2	4.7
90°-150°	1061.7	7.9
90°-180°	1102.0	8.2
0°-180°	13484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3714	3714	3714	3714	3714	
5°	3719	3668	3726	3925	3978	353
15°	3548	3985	4856	5462	5552	1000
25°	3209	4122	5087	5486	5473	1476
35°	2705	3712	4331	4291	4180	1690
45°	2080	2869	3171	2900	2685	1600
55°	1368	1954	2104	1909	1770	1222
65°	699	1215	1313	1184	1047	705
75°	259	732	750	647	541	283
85°	46	461	377	295	237	56
90°	4	392	275	200	155	4
95°	2	379	240	169	129	1
105°	2	344	222	144	111	1
115°	2	317	248	157	122	2
125°	2	260	288	191	149	2
135°	2	100	308	246	193	1
145°	2	9	239	279	240	1
155°	2	6	53	184	204	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#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8
2.5°	3732.0	3717.4	3691.9	3690.1	3673.7	3666.4	3668.2	3662.8	3657.3	3648.2	3633.6
5°	3719.2	3691.9	3650.0	3650.0	3659.1	3668.2	3690.1	3710.1	3715.6	3728.3	3726.5
7.5°	3695.5	3653.7	3613.6	3646.4	3679.2	3691.9	3717.4	3753.8	3810.3	3914.1	4016.1
10°	3657.3	3600.8	3588.1	3640.9	3684.6	3722.9	3781.2	3950.5	4107.2	4262.0	4362.2
12.5°	3613.6	3544.4	3562.6	3630.0	3732.0	3804.8	3954.2	4178.2	4302.1	4482.4	4629.9
15°	3548.0	3482.4	3515.2	3615.4	3828.5	3985.1	4068.9	4342.1	4540.7	4690.0	4855.8
17.5°	3477.0	3418.7	3464.2	3640.9	3930.5	4081.7	4216.5	4447.8	4639.0	4859.4	5016.0
20°	3398.7	3347.7	3405.9	3673.7	3979.7	4134.5	4283.8	4504.2	4757.4	4985.1	5119.9
22.5°	3307.6	3262.1	3351.3	3688.3	3997.9	4152.7	4298.4	4555.2	4817.5	5005.1	5119.9
25°	3209.2	3163.7	3285.7	3659.1	3979.7	4121.7	4278.4	4582.6	4797.5	4945.0	5087.1
27.5°	3103.6	3052.6	3236.6	3599.0	3906.8	4067.1	4243.8	4529.7	4699.1	4863.0	5006.9
30°	2974.3	2928.8	3151.0	3511.6	3804.8	3994.2	4145.4	4402.2	4564.3	4726.4	4837.5
32.5°	2845.0	2801.3	3047.1	3387.7	3688.3	3866.8	4012.5	4212.8	4396.8	4522.4	4591.7
35°	2704.7	2655.5	2926.9	3236.6	3557.1	3711.9	3834.0	4016.1	4170.9	4263.8	4331.2
37.5°	2564.5	2511.7	2773.9	3078.1	3384.1	3526.2	3628.2	3812.1	3930.5	4007.0	4063.5
40°	2406.0	2351.4	2615.5	2899.6	3203.8	3304.0	3409.6	3573.5	3660.9	3722.9	3750.2
42.5°	2245.7	2191.1	2444.3	2712.0	2983.4	3081.7	3191.0	3320.3	3405.9	3442.4	3442.4
45°	2080.0	2027.2	2267.6	2526.2	2755.7	2868.6	2965.2	3069.0	3140.0	3169.2	3171.0
47.5°	1907.0	1863.3	2092.7	2327.7	2542.6	2641.0	2715.7	2815.8	2877.8	2885.0	2883.2
50°	1730.3	1692.0	1897.9	2129.2	2320.4	2407.8	2473.4	2566.3	2615.5	2613.7	2604.5
52.5°	1544.5	1520.8	1712.1	1923.4	2096.4	2174.7	2233.0	2315.0	2355.0	2355.0	2347.7
55°	1367.8	1353.3	1519.0	1723.0	1885.1	1954.3	2009.0	2081.8	2114.6	2114.6	2103.7
57.5°	1189.4	1187.5	1342.3	1524.5	1679.3	1741.2	1799.5	1863.3	1892.4	1892.4	1874.2
60°	1014.5	1023.6	1176.6	1344.2	1486.2	1546.3	1597.3	1659.3	1677.5	1681.1	1677.5
62.5°	852.4	876.1	1021.8	1174.8	1316.8	1367.8	1413.4	1473.5	1488.1	1493.5	1484.4
65°	699.4	735.8	883.4	1029.1	1162.0	1214.8	1254.9	1296.8	1309.6	1315.0	1313.2
67.5°	573.7	612.0	759.5	903.4	1025.4	1067.3	1107.4	1143.8	1145.6	1154.7	1147.5
70°	444.4	502.7	650.2	786.8	901.6	939.8	972.6	998.1	1003.6	1005.4	1003.6
72.5°	342.4	411.6	551.9	686.7	790.5	826.9	852.4	872.4	872.4	874.3	868.8
75°	258.6	342.4	479.0	602.9	695.8	732.2	752.2	765.0	757.7	755.9	750.4
77.5°	187.6	284.1	413.4	530.0	617.4	644.8	663.0	664.8	653.9	652.0	641.1
80°	129.3	231.3	357.0	466.3	546.4	573.7	582.8	575.6	566.4	555.5	540.9
82.5°	85.6	187.6	309.6	413.4	488.1	510.0	517.3	506.3	493.6	475.4	451.7
85°	45.5	151.2	269.6	369.7	440.8	460.8	464.4	444.4	424.4	400.7	377.0
87.5°	20.0	123.9	240.4	340.6	402.5	417.1	418.9	397.1	371.6	344.2	315.1
90°	3.6	105.6	222.2	318.7	378.8	391.6	391.6	362.5	337.0	307.8	275.0
92.5°	1.8	100.2	216.7	311.5	371.6	384.3	382.5	351.5	320.6	287.8	255.0
95°	1.8	87.4	204.0	304.2	366.1	378.8	377.0	344.2	311.5	276.8	240.4
97.5°	1.8	72.9	191.2	291.4	357.0	369.7	369.7	338.8	306.0	269.6	231.3
100°	0.0	56.5	176.7	278.7	344.2	360.6	362.5	333.3	298.7	262.3	225.8
102.5°	0.0	38.2	163.9	267.7	335.1	351.5	355.2	331.5	295.1	258.6	222.2
105°	1.8	23.7	147.5	255.0	326.0	344.2	349.7	329.7	293.2	258.6	222.2
107.5°	1.8	16.4	131.1	242.2	318.7	338.8	346.1	329.7	295.1	260.5	225.8
110°	1.8	14.6	111.1	229.5	309.6	331.5	342.4	331.5	298.7	265.9	231.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.8	10.9	83.8	213.1	298.7	324.2	338.8	333.3	304.2	271.4	238.6
115°	1.8	9.1	56.5	196.7	287.8	316.9	335.1	335.1	309.6	278.7	247.7
117.5°	1.8	9.1	38.2	174.9	275.0	307.8	327.8	337.0	316.9	286.0	258.6
120°	1.8	7.3	18.2	149.4	258.6	295.1	320.6	337.0	322.4	295.1	267.7
122.5°	1.8	7.3	14.6	114.7	240.4	280.5	309.6	335.1	327.8	302.3	278.7
125°	1.8	5.5	12.7	76.5	216.7	260.5	295.1	329.7	329.7	309.6	287.8
127.5°	1.8	5.5	10.9	54.6	185.8	238.6	275.0	320.6	329.7	315.1	296.9
130°	1.8	5.5	9.1	16.4	142.1	207.6	251.3	306.0	326.0	318.7	302.3
132.5°	1.8	3.6	9.1	12.7	91.1	162.1	218.6	282.3	315.1	318.7	307.8
135°	1.8	3.6	7.3	10.9	65.6	100.2	174.9	253.2	295.1	307.8	307.8
137.5°	1.8	3.6	7.3	9.1	29.1	74.7	109.3	218.6	269.6	293.2	298.7
140°	1.8	3.6	5.5	7.3	10.9	40.1	78.3	173.0	238.6	271.4	286.0
142.5°	1.8	3.6	5.5	7.3	9.1	9.1	47.4	100.2	200.3	242.2	265.9
145°	1.8	3.6	3.6	5.5	7.3	9.1	9.1	76.5	143.9	207.6	238.6
147.5°	1.8	1.8	3.6	5.5	7.3	7.3	7.3	34.6	85.6	158.5	204.0
150°	1.8	1.8	3.6	3.6	5.5	5.5	7.3	7.3	56.5	89.2	151.2
152.5°	1.8	1.8	3.6	3.6	5.5	5.5	5.5	7.3	7.3	60.1	83.8
155°	1.8	1.8	3.6	3.6	3.6	5.5	5.5	5.5	5.5	7.3	52.8
157.5°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.5	5.5	7.3	7.3
160°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	5.5	7.3
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°	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8	3713.8
2.5°	3651.8	3679.2	3679.2	3702.8	3715.6	3711.9	3715.6	3722.9	3701.0	3693.7
5°	3766.6	3821.2	3848.5	3910.5	3925.0	3952.4	3961.5	3992.4	3999.7	3977.9
7.5°	4127.2	4240.1	4313.0	4387.7	4420.4	4436.8	4466.0	4486.0	4517.0	4493.3
10°	4466.0	4602.6	4706.4	4788.4	4808.4	4824.8	4859.4	4908.6	4904.9	4901.3
12.5°	4759.2	4879.4	5006.9	5125.3	5185.4	5198.2	5249.2	5309.3	5320.2	5271.0
15°	5001.5	5169.0	5312.9	5438.6	5462.3	5495.1	5533.3	5553.3	5544.2	5551.5
17.5°	5203.6	5345.7	5447.7	5515.1	5529.7	5555.2	5589.8	5615.3	5618.9	5620.7
20°	5283.8	5378.5	5476.8	5569.7	5598.9	5624.4	5666.3	5688.1	5684.5	5673.5
22.5°	5269.2	5407.6	5498.7	5575.2	5604.3	5628.0	5664.4	5679.0	5673.5	5662.6
25°	5247.3	5365.7	5445.9	5485.9	5485.9	5504.2	5495.1	5484.1	5471.4	5473.2
27.5°	5143.5	5212.7	5267.4	5312.9	5318.4	5320.2	5314.7	5303.8	5296.5	5280.1
30°	4932.3	5016.0	5041.5	5037.9	5030.6	5028.8	5006.9	4990.5	4970.5	4972.3
32.5°	4684.5	4702.8	4713.7	4682.7	4664.5	4660.9	4640.8	4613.5	4586.2	4557.1
35°	4365.8	4353.1	4327.6	4305.7	4291.1	4269.3	4240.1	4212.8	4178.2	4180.0
37.5°	4058.0	4017.9	3981.5	3921.4	3910.5	3859.5	3803.0	3759.3	3702.8	3671.9
40°	3737.4	3697.4	3651.8	3586.3	3557.1	3509.8	3447.8	3375.0	3329.5	3311.2
42.5°	3431.4	3382.3	3329.5	3251.1	3214.7	3176.5	3110.9	3039.9	3007.1	3001.6
45°	3132.7	3076.3	3025.3	2937.9	2899.6	2854.1	2786.7	2743.0	2695.6	2684.7
47.5°	2845.0	2795.8	2717.5	2650.1	2613.7	2575.4	2506.2	2466.1	2431.5	2418.8
50°	2566.3	2518.9	2458.8	2384.2	2349.6	2313.1	2264.0	2225.7	2185.6	2172.9
52.5°	2316.8	2269.4	2207.5	2149.2	2114.6	2092.7	2047.2	2003.5	1972.5	1952.5
55°	2076.4	2032.6	1976.2	1921.5	1908.8	1879.6	1826.8	1788.6	1768.5	1770.4
57.5°	1856.0	1817.7	1774.0	1721.2	1701.2	1673.8	1639.2	1593.7	1570.0	1562.7
60°	1655.6	1619.2	1582.8	1542.7	1517.2	1497.2	1449.8	1413.4	1382.4	1378.8
62.5°	1464.4	1437.1	1406.1	1366.0	1344.2	1322.3	1280.4	1245.8	1222.1	1214.8
65°	1298.6	1275.0	1238.5	1205.7	1183.9	1162.0	1122.0	1087.4	1067.3	1047.3
67.5°	1134.7	1114.7	1087.4	1052.7	1032.7	1010.9	976.3	938.0	914.3	908.9
70°	989.0	967.1	945.3	908.9	890.6	877.9	839.6	801.4	783.2	775.9
72.5°	863.3	839.6	808.7	783.2	772.3	748.6	712.2	686.7	663.0	648.4
75°	732.2	717.6	695.8	666.6	646.6	630.2	601.0	575.6	555.5	540.9
77.5°	624.7	606.5	588.3	559.2	544.6	530.0	499.1	477.2	457.2	449.9
80°	524.6	508.2	482.7	460.8	448.1	435.3	411.6	388.0	373.4	366.1
82.5°	433.5	418.9	398.9	380.7	366.1	357.0	335.1	315.1	302.3	291.4
85°	358.8	340.6	322.4	306.0	295.1	287.8	271.4	256.8	240.4	236.8
87.5°	295.1	280.5	264.1	247.7	240.4	231.3	216.7	205.8	193.1	187.6
90°	253.2	235.0	220.4	207.6	200.3	194.9	184.0	169.4	160.3	154.8
92.5°	229.5	213.1	200.3	187.6	182.1	176.7	163.9	153.0	143.9	136.6
95°	214.9	198.5	185.8	174.9	169.4	165.7	154.8	143.9	134.8	129.3
97.5°	204.0	185.8	173.0	163.9	158.5	154.8	145.7	136.6	127.5	122.0
100°	194.9	176.7	163.9	154.8	151.2	147.5	138.4	129.3	122.0	116.6
102.5°	191.2	171.2	158.5	151.2	147.5	143.9	134.8	127.5	118.4	112.9
105°	191.2	169.4	156.6	147.5	143.9	140.2	133.0	125.7	116.6	111.1
107.5°	194.9	171.2	156.6	149.4	145.7	142.1	133.0	125.7	116.6	111.1
110°	200.3	176.7	160.3	151.2	147.5	143.9	134.8	127.5	118.4	112.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	207.6	182.1	165.7	154.8	151.2	147.5	138.4	131.1	122.0	116.6
115°	216.7	189.4	173.0	160.3	156.6	153.0	143.9	134.8	127.5	122.0
117.5°	227.7	200.3	180.3	167.6	163.9	158.5	149.4	140.2	133.0	127.5
120°	238.6	213.1	191.2	176.7	171.2	165.7	156.6	147.5	138.4	133.0
122.5°	251.3	224.0	202.2	187.6	182.1	176.7	165.7	156.6	147.5	140.2
125°	264.1	238.6	214.9	198.5	191.2	185.8	174.9	163.9	156.6	149.4
127.5°	275.0	251.3	227.7	211.3	204.0	196.7	185.8	174.9	165.7	160.3
130°	284.1	264.1	242.2	224.0	216.7	211.3	196.7	185.8	176.7	171.2
132.5°	293.2	275.0	256.8	238.6	231.3	224.0	211.3	198.5	189.4	182.1
135°	298.7	284.1	269.6	253.2	245.9	236.8	224.0	211.3	200.3	193.1
137.5°	298.7	291.4	278.7	265.9	258.6	251.3	236.8	224.0	213.1	207.6
140°	289.6	291.4	286.0	276.8	269.6	264.1	251.3	236.8	225.8	220.4
142.5°	276.8	282.3	286.0	280.5	276.8	273.2	262.3	249.5	238.6	231.3
145°	256.8	267.7	275.0	280.5	278.7	276.8	267.7	258.6	247.7	240.4
147.5°	231.3	247.7	256.8	269.6	273.2	273.2	269.6	262.3	253.2	247.7
150°	194.9	218.6	235.0	247.7	253.2	260.5	260.5	255.0	249.5	244.1
152.5°	138.4	176.7	200.3	218.6	225.8	233.1	242.2	238.6	231.3	227.7
155°	78.3	96.5	145.7	174.9	184.0	193.1	207.6	211.3	209.5	204.0
157.5°	40.1	65.6	82.0	94.7	100.2	114.7	143.9	163.9	162.1	165.7
160°	9.1	10.9	31.0	58.3	65.6	69.2	76.5	82.0	82.0	78.3
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)