

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: P232503

Luminaire Tested: **8SKB1-LD5-14-W-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-5)
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-UNV-L850-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14346.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Semi-Direct

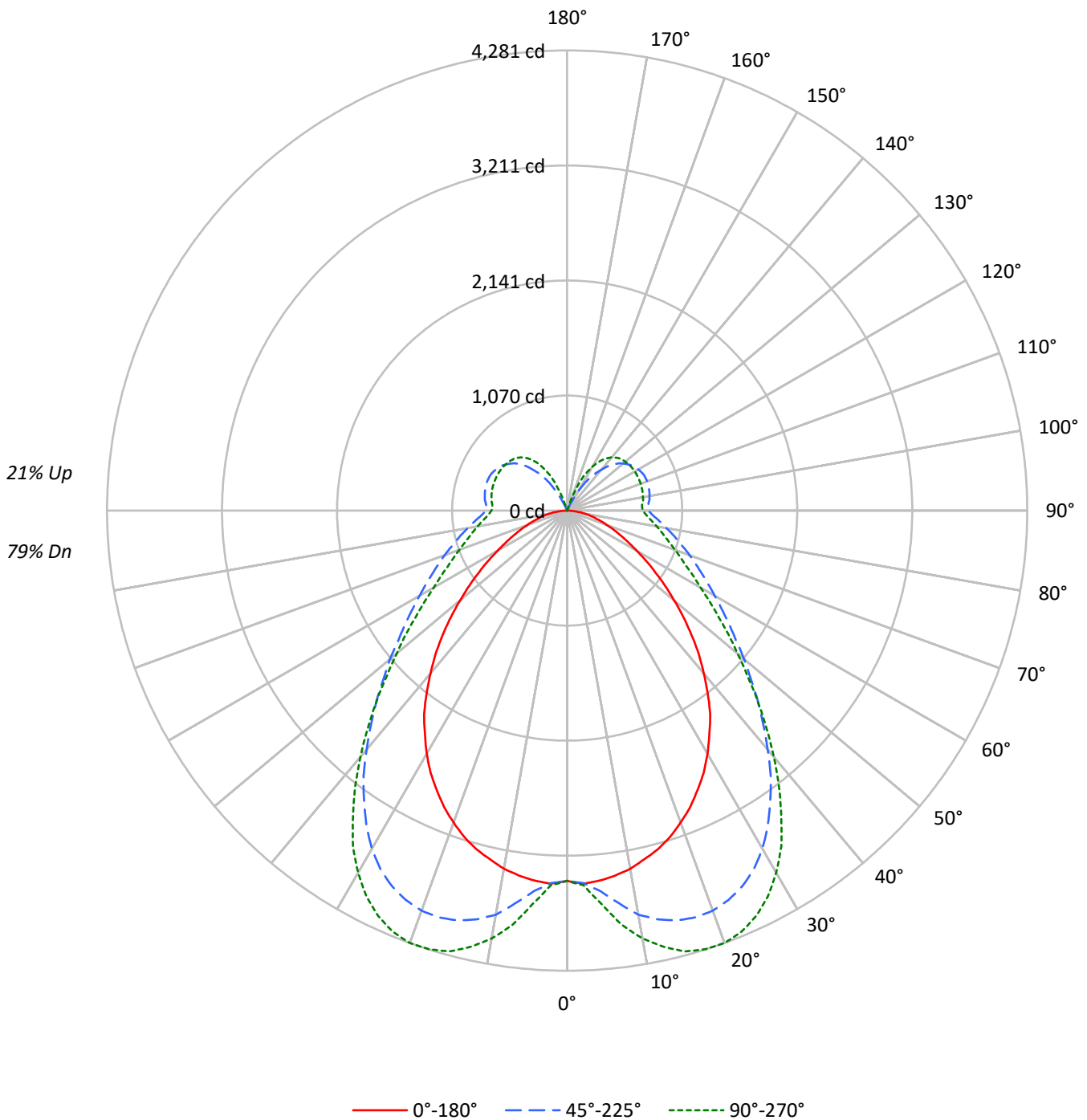
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	103	97	93	88	98	93	89	85	85	82	78	77	75	72	70	68	67	63
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	85	74	66	60	81	71	64	58	65	59	54	60	55	51	55	51	47	44
4	78	66	57	51	74	63	55	49	58	51	46	53	48	43	49	44	41	38
5	72	59	50	44	68	57	49	42	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	40	34	58	46	38	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18544	18544	18544
5°	18611	17865	18013
10°	18374	18139	18320
15°	17999	17909	18024
20°	17458	17324	17211
25°	16758	16395	16005
30°	15898	15142	14442
35°	14870	13567	12556
40°	13475	11900	10621
45°	12015	10318	8806
50°	10430	8938	7256
55°	8925	7779	6034
60°	7562	6904	5095
65°	6482	6223	4449
70°	5665	5720	3991
75°	4947	5292	3662
80°	4240	4984	3442
85°	3147	4799	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.8	2.4
10°-20°	1093.7	7.6
20°-30°	1713.8	11.9
30°-40°	1962.5	13.7
40°-50°	1807.5	12.6
50°-60°	1483.4	10.3
60°-70°	1186.0	8.3
70°-80°	952.7	6.6
80°-90°	757.8	5.3
90°-100°	677.3	4.7
100°-110°	659.7	4.6
110°-120°	597.9	4.2
120°-130°	494.1	3.4
130°-140°	354.4	2.5
140°-150°	196.9	1.4
150°-160°	59.3	0.4
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	3155.2	22.0
0°-40°	5117.7	35.7
0°-60°	8408.6	58.6
0°-90°	11305.1	78.8
90°-120°	1934.8	13.5
90°-150°	2980.3	20.8
90°-180°	3041.0	21.2
0°-180°	14346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3446	3446	3446	3446	3446	
5°	3456	3491	3553	3675	3675	327
15°	3262	3592	3947	4194	4246	917
25°	2870	3417	3856	4128	4162	1319
35°	2321	2886	3295	3489	3472	1442
45°	1636	2179	2509	2575	2507	1262
55°	1001	1566	1836	1789	1714	902
65°	549	1149	1380	1285	1224	551
75°	270	875	1063	982	943	290
85°	72	662	834	782	761	79
90°	4	588	755	720	704	6
95°	2	584	759	720	699	2
105°	2	572	788	749	724	2
115°	2	516	786	763	728	2
125°	2	402	732	757	720	2
135°	2	146	609	708	687	2
145°	2	6	373	572	578	1
155°	2	2	58	266	334	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°	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6
2.5°	3474.5	3460.0	3449.7	3460.0	3464.2	3468.3	3478.6	3476.5	3478.6	3474.5	3468.3
5°	3455.9	3443.5	3439.4	3460.0	3480.7	3491.0	3505.4	3519.9	3532.2	3548.7	3552.9
7.5°	3424.9	3418.8	3422.9	3460.0	3493.0	3517.8	3538.4	3575.6	3612.7	3649.8	3684.9
10°	3383.7	3379.6	3398.1	3453.8	3507.5	3542.6	3577.6	3645.7	3709.7	3767.4	3817.0
12.5°	3321.8	3332.1	3363.1	3437.3	3521.9	3571.4	3627.1	3711.7	3779.8	3845.8	3895.4
15°	3262.0	3268.1	3328.0	3416.7	3515.7	3592.1	3649.8	3757.1	3827.3	3895.4	3946.9
17.5°	3183.6	3198.0	3264.0	3389.9	3511.6	3579.7	3649.8	3734.4	3819.0	3897.4	3967.6
20°	3088.6	3119.6	3208.3	3346.5	3484.8	3552.9	3614.8	3717.9	3804.6	3880.9	3961.4
22.5°	2987.5	3022.6	3121.7	3286.7	3429.1	3497.2	3557.0	3670.5	3759.2	3835.5	3922.2
25°	2869.9	2915.3	3032.9	3210.4	3346.5	3416.7	3480.7	3596.2	3689.0	3765.4	3856.2
27.5°	2750.3	2801.9	2929.8	3109.3	3249.6	3315.6	3381.6	3497.2	3590.0	3666.3	3761.3
30°	2612.0	2667.7	2812.2	2985.5	3123.7	3195.9	3255.8	3369.2	3470.3	3538.4	3633.3
32.5°	2463.5	2527.4	2682.2	2849.3	2987.5	3055.6	3115.5	3224.8	3315.6	3387.8	3474.5
35°	2321.1	2372.7	2529.5	2692.5	2824.6	2886.4	2956.6	3061.8	3142.3	3216.6	3295.0
37.5°	2149.9	2211.8	2370.6	2525.4	2657.4	2723.5	2781.2	2878.2	2952.5	3022.6	3111.3
40°	1976.6	2044.7	2209.7	2347.9	2484.1	2535.7	2593.5	2682.2	2752.3	2839.0	2903.0
42.5°	1813.6	1877.5	2034.3	2174.6	2302.6	2354.1	2409.8	2502.7	2562.5	2636.8	2700.8
45°	1636.1	1702.2	1869.3	2001.3	2123.1	2178.8	2236.5	2312.9	2381.0	2440.8	2508.9
47.5°	1467.0	1545.4	1706.3	1830.1	1953.9	2005.5	2055.0	2135.4	2203.5	2267.5	2314.9
50°	1299.8	1384.4	1541.2	1675.3	1792.9	1844.5	1894.0	1974.5	2044.7	2100.4	2149.9
52.5°	1147.2	1235.9	1396.8	1537.1	1642.3	1696.0	1745.5	1823.9	1894.0	1945.6	1978.6
55°	1000.7	1099.7	1266.8	1403.0	1508.2	1566.0	1605.2	1687.7	1757.9	1805.3	1836.3
57.5°	872.7	982.1	1141.0	1281.3	1390.6	1442.2	1489.6	1568.0	1634.1	1679.5	1704.2
60°	746.9	868.6	1033.7	1169.8	1281.3	1330.8	1382.4	1460.8	1522.7	1563.9	1586.6
62.5°	641.7	769.6	940.8	1072.9	1186.4	1235.9	1281.3	1359.7	1419.5	1460.8	1479.3
65°	548.8	682.9	856.2	988.3	1097.6	1149.2	1196.7	1277.1	1332.8	1372.0	1380.3
67.5°	468.4	604.5	779.9	909.9	1023.4	1070.8	1118.3	1198.7	1252.4	1285.4	1291.6
70°	396.1	534.4	709.7	839.7	951.1	1002.7	1050.2	1122.4	1178.1	1204.9	1213.2
72.5°	330.1	474.5	643.7	777.8	889.2	936.7	982.1	1058.4	1110.0	1134.8	1132.7
75°	270.3	418.8	588.0	720.1	825.3	874.8	920.2	994.5	1046.1	1066.7	1062.6
77.5°	218.7	371.4	534.4	662.3	769.6	819.1	860.4	934.6	982.1	1004.8	1000.7
80°	165.1	319.8	482.8	608.7	715.9	761.3	806.7	876.9	924.3	947.0	936.7
82.5°	119.7	272.3	435.3	559.1	664.4	711.8	753.1	825.3	870.7	889.2	883.1
85°	72.2	224.9	383.8	511.7	616.9	662.3	707.7	775.8	821.2	839.7	833.5
87.5°	30.9	181.6	340.4	468.4	573.6	619.0	662.3	730.4	773.7	792.3	786.1
90°	4.1	152.7	313.6	439.5	542.6	588.0	631.3	699.4	742.8	761.3	755.1
92.5°	2.1	146.5	305.4	431.2	534.4	581.8	623.1	693.2	738.6	755.1	753.1
95°	2.1	136.2	301.2	431.2	536.4	583.9	627.2	697.4	742.8	761.3	759.3
97.5°	2.1	121.7	295.0	429.2	538.5	588.0	631.3	705.6	753.1	773.7	771.6
100°	2.1	99.0	282.7	423.0	534.4	586.0	629.3	705.6	755.1	777.8	777.8
102.5°	2.1	68.1	268.2	412.6	530.2	579.8	625.2	703.6	755.1	779.9	784.0
105°	2.1	41.3	249.6	400.3	519.9	571.5	619.0	699.4	753.1	782.0	788.2
107.5°	2.1	26.8	227.0	385.8	509.6	563.3	610.7	693.2	748.9	782.0	790.2
110°	2.1	22.7	198.1	369.3	495.2	548.8	598.3	685.0	742.8	779.9	792.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.1	18.6	152.7	346.6	478.7	534.4	586.0	670.5	734.5	771.6	790.2
115°	2.1	14.4	99.0	319.8	458.0	515.8	567.4	656.1	720.1	763.4	786.1
117.5°	2.1	12.4	64.0	288.9	435.3	493.1	546.8	637.5	705.6	751.0	777.8
120°	2.1	10.3	26.8	247.6	406.5	468.4	522.0	612.8	685.0	734.5	765.5
122.5°	2.1	8.3	20.6	185.7	373.4	437.4	493.1	588.0	660.2	715.9	748.9
125°	2.1	8.3	16.5	119.7	332.2	402.3	462.2	559.1	635.5	693.2	732.4
127.5°	2.1	6.2	14.4	80.5	282.7	361.1	425.0	526.1	604.5	664.4	707.7
130°	2.1	6.2	12.4	35.1	210.4	309.5	379.6	486.9	569.4	633.4	680.9
132.5°	2.1	4.1	10.3	14.4	130.0	239.3	321.9	437.4	528.2	596.3	649.9
135°	2.1	4.1	8.3	12.4	86.7	146.5	251.7	381.7	474.5	546.8	608.7
137.5°	2.1	4.1	6.2	10.3	35.1	97.0	154.7	319.8	416.8	493.1	557.1
140°	2.1	4.1	6.2	8.3	10.3	45.4	105.2	243.5	352.8	435.3	497.2
142.5°	2.1	4.1	6.2	6.2	8.3	10.3	51.6	142.4	282.7	371.4	439.5
145°	2.1	2.1	4.1	6.2	6.2	6.2	8.3	97.0	183.6	301.2	373.4
147.5°	2.1	2.1	4.1	4.1	6.2	6.2	6.2	39.2	113.5	212.5	301.2
150°	2.1	2.1	4.1	4.1	4.1	4.1	4.1	4.1	57.8	115.5	204.3
152.5°	2.1	2.1	2.1	4.1	4.1	4.1	4.1	4.1	6.2	66.0	113.5
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	57.8
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6	3445.6
2.5°	3478.6	3497.2	3505.4	3513.7	3515.7	3517.8	3513.7	3511.6	3497.2	3488.9
5°	3581.8	3627.1	3645.7	3672.5	3674.6	3676.7	3689.0	3682.9	3684.9	3674.6
7.5°	3732.4	3798.4	3827.3	3862.4	3870.6	3880.9	3901.6	3903.6	3901.6	3887.1
10°	3872.7	3928.4	3971.7	4004.7	4017.1	4025.3	4050.1	4056.3	4052.2	4041.9
12.5°	3957.3	4029.5	4072.8	4120.3	4132.6	4145.0	4165.6	4176.0	4163.6	4157.4
15°	4029.5	4105.8	4140.9	4192.5	4194.5	4217.2	4252.3	4256.4	4250.2	4246.1
17.5°	4048.0	4126.4	4178.0	4223.4	4239.9	4254.4	4275.0	4291.5	4293.6	4277.1
20°	4043.9	4118.2	4180.1	4227.5	4246.1	4256.4	4283.2	4295.6	4289.4	4281.2
22.5°	4010.9	4085.2	4147.1	4188.3	4204.8	4221.4	4246.1	4256.4	4256.4	4239.9
25°	3942.8	4017.1	4070.7	4114.1	4128.5	4145.0	4169.8	4176.0	4171.8	4161.5
27.5°	3845.8	3911.9	3965.5	4002.7	4017.1	4031.5	4058.4	4064.5	4056.3	4046.0
30°	3703.5	3771.6	3825.2	3858.2	3870.6	3880.9	3897.4	3911.9	3899.5	3889.2
32.5°	3548.7	3610.6	3647.8	3678.7	3687.0	3695.2	3711.7	3717.9	3705.5	3707.6
35°	3367.2	3420.8	3464.2	3484.8	3488.9	3486.8	3495.1	3497.2	3499.2	3472.4
37.5°	3169.1	3216.6	3237.2	3266.1	3259.9	3270.2	3278.5	3270.2	3249.6	3239.3
40°	2956.6	2987.5	3022.6	3032.9	3026.7	3041.2	3037.1	3022.6	2999.9	2991.7
42.5°	2746.1	2781.2	2793.6	2801.9	2795.7	2797.7	2789.5	2785.4	2762.7	2744.1
45°	2546.0	2570.8	2577.0	2574.9	2574.9	2564.6	2554.3	2537.8	2517.1	2506.8
47.5°	2350.0	2366.5	2368.6	2358.3	2350.0	2337.6	2339.7	2310.8	2286.1	2273.7
50°	2168.4	2174.6	2168.4	2149.9	2145.8	2131.3	2123.1	2100.4	2077.7	2071.5
52.5°	2005.5	2003.4	1991.0	1970.4	1962.1	1947.7	1933.2	1912.6	1889.9	1889.9
55°	1846.6	1840.4	1823.9	1801.2	1788.8	1782.6	1764.1	1741.4	1724.9	1714.5
57.5°	1708.3	1696.0	1675.3	1654.7	1638.2	1621.7	1609.3	1592.8	1572.2	1568.0
60°	1584.6	1559.8	1541.2	1518.5	1506.2	1491.7	1475.2	1462.8	1446.3	1429.8
62.5°	1469.0	1448.4	1423.6	1400.9	1388.5	1376.2	1359.7	1341.1	1330.8	1326.7
65°	1367.9	1347.3	1318.4	1295.7	1285.4	1273.0	1260.6	1240.0	1233.8	1223.5
67.5°	1277.1	1250.3	1223.5	1202.9	1192.5	1188.4	1176.0	1163.7	1149.2	1141.0
70°	1192.5	1165.7	1141.0	1126.5	1114.1	1110.0	1099.7	1083.2	1072.9	1066.7
72.5°	1112.1	1089.4	1068.7	1048.1	1039.9	1037.8	1029.5	1017.2	1006.9	1000.7
75°	1044.0	1021.3	1000.7	990.3	982.1	975.9	971.8	959.4	953.2	942.9
77.5°	984.2	957.3	938.8	928.5	922.3	918.1	914.0	907.8	899.6	893.4
80°	920.2	899.6	885.1	874.8	870.7	866.6	862.4	858.3	852.1	845.9
82.5°	866.6	848.0	835.6	827.4	827.4	823.2	821.2	817.0	810.8	802.6
85°	815.0	798.5	788.2	784.0	782.0	779.9	777.8	773.7	767.5	761.3
87.5°	771.6	759.3	748.9	746.9	746.9	744.8	742.8	740.7	734.5	728.3
90°	742.8	730.4	724.2	722.1	720.1	720.1	720.1	715.9	709.7	703.6
92.5°	738.6	726.3	720.1	715.9	715.9	715.9	715.9	711.8	705.6	697.4
95°	744.8	732.4	726.3	722.1	720.1	720.1	718.0	713.9	707.7	699.4
97.5°	759.3	746.9	738.6	732.4	730.4	730.4	728.3	724.2	718.0	711.8
100°	767.5	755.1	746.9	740.7	738.6	736.6	734.5	730.4	724.2	715.9
102.5°	773.7	761.3	751.0	746.9	744.8	742.8	738.6	734.5	728.3	720.1
105°	777.8	767.5	759.3	751.0	748.9	746.9	742.8	738.6	730.4	724.2
107.5°	784.0	773.7	763.4	757.2	753.1	751.0	746.9	742.8	734.5	726.3
110°	786.1	777.8	767.5	761.3	757.2	755.1	748.9	742.8	734.5	728.3



TEST NUMBER: P232503

CATALOG NUMBER: 8SKB1-LD5-14-W-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	788.2	782.0	771.6	763.4	761.3	757.2	751.0	744.8	736.6	728.3
115°	788.2	782.0	773.7	765.5	763.4	759.3	753.1	744.8	736.6	728.3
117.5°	786.1	782.0	775.8	767.5	763.4	759.3	753.1	744.8	734.5	728.3
120°	779.9	779.9	773.7	767.5	763.4	759.3	751.0	742.8	734.5	726.3
122.5°	769.6	773.7	769.6	763.4	761.3	757.2	751.0	740.7	730.4	724.2
125°	755.1	765.5	763.4	759.3	757.2	753.1	746.9	738.6	728.3	720.1
127.5°	736.6	751.0	755.1	753.1	751.0	748.9	740.7	732.4	724.2	713.9
130°	713.9	732.4	740.7	740.7	740.7	738.6	734.5	726.3	715.9	707.7
132.5°	685.0	707.7	720.1	726.3	726.3	726.3	722.1	715.9	707.7	697.4
135°	652.0	680.9	697.4	705.6	707.7	707.7	707.7	703.6	695.3	687.1
137.5°	612.8	645.8	668.5	680.9	685.0	687.1	689.1	685.0	676.7	668.5
140°	555.0	602.5	631.3	647.9	652.0	658.2	662.3	658.2	652.0	645.8
142.5°	497.2	546.8	588.0	610.7	614.8	621.0	627.2	627.2	621.0	614.8
145°	435.3	484.9	528.2	565.3	571.5	577.7	586.0	590.1	583.9	577.7
147.5°	363.1	414.7	460.1	501.4	519.9	528.2	536.4	540.6	538.5	532.3
150°	286.8	342.5	385.8	427.1	445.7	470.4	480.7	482.8	480.7	474.5
152.5°	173.3	253.8	303.3	344.6	361.1	383.8	412.6	418.8	414.7	410.6
155°	97.0	132.0	185.7	247.6	266.2	286.8	321.9	336.3	334.2	334.2
157.5°	28.9	72.2	99.0	121.7	130.0	142.4	183.6	218.7	229.0	231.1
160°	2.1	2.1	24.8	49.5	61.9	74.3	94.9	107.3	109.4	111.4
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)