

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: P232504

Luminaire Tested: **8SKB1-LD5-16-W-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232504
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-LD5-16-W-UNV-L835-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15123.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

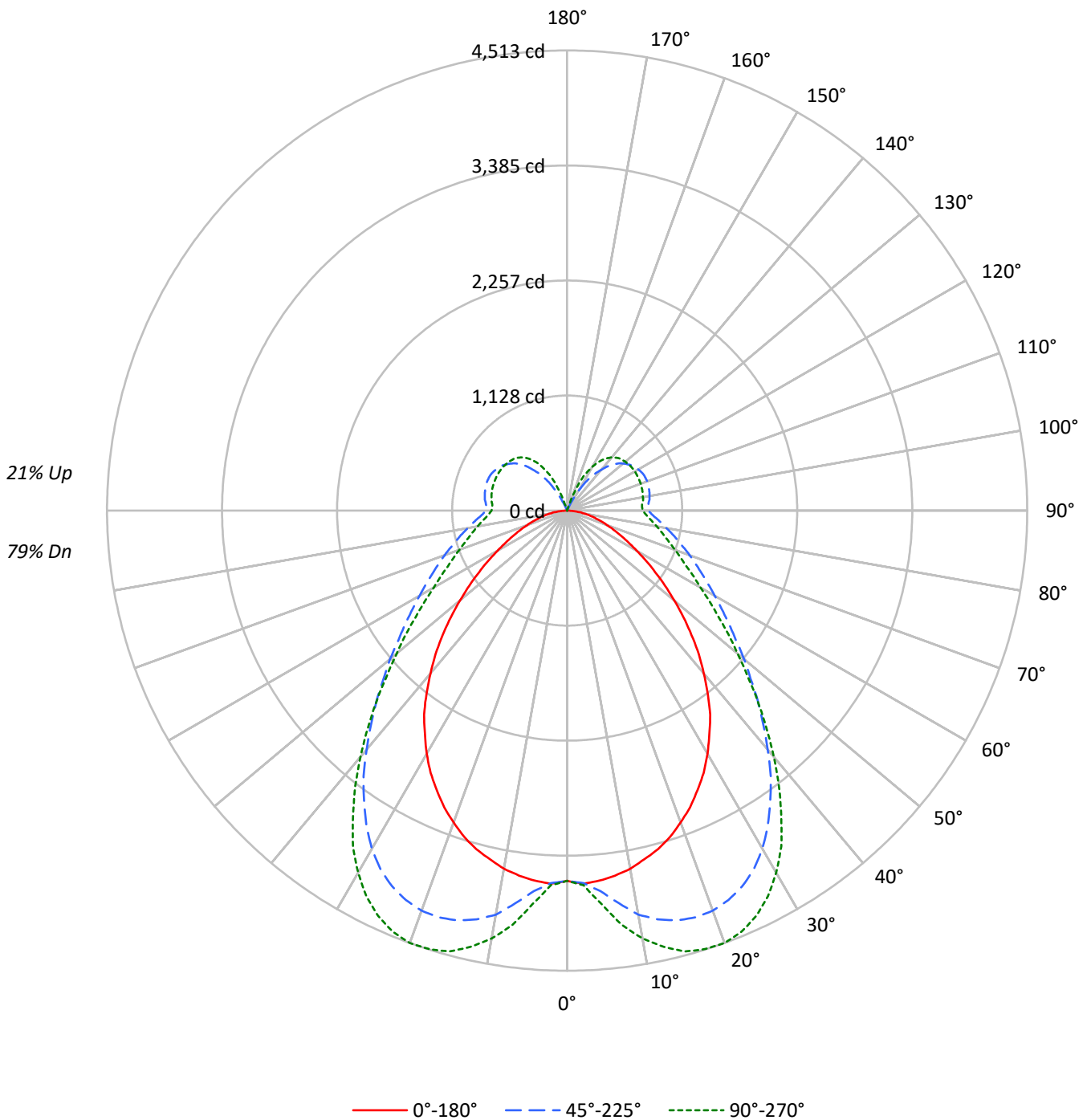
Input Watts (W): 130.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19548	19548	19548
5°	19619	18832	18989
10°	19369	19121	19312
15°	18974	18879	19000
20°	18403	18262	18144
25°	17665	17283	16872
30°	16759	15962	15224
35°	15676	14301	13237
40°	14204	12545	11196
45°	12666	10877	9283
50°	10995	9422	7649
55°	9408	8200	6361
60°	7971	7278	5371
65°	6833	6561	4690
70°	5973	6030	4208
75°	5215	5579	3860
80°	4469	5254	3628
85°	3317	5060	3457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	2.4
10°-20°	1152.9	7.6
20°-30°	1806.6	11.9
30°-40°	2068.8	13.7
40°-50°	1905.4	12.6
50°-60°	1563.7	10.3
60°-70°	1250.3	8.3
70°-80°	1004.3	6.6
80°-90°	798.8	5.3
90°-100°	714.0	4.7
100°-110°	695.4	4.6
110°-120°	630.2	4.2
120°-130°	520.9	3.4
130°-140°	373.6	2.5
140°-150°	207.6	1.4
150°-160°	62.5	0.4
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	3326.1	22.0
0°-40°	5394.9	35.7
0°-60°	8864.0	58.6
0°-90°	11917.4	78.8
90°-120°	2039.6	13.5
90°-150°	3141.7	20.8
90°-180°	3206.0	21.2
0°-180°	15123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3632	3632	3632	3632	3632	
5°	3643	3680	3745	3874	3874	345
15°	3439	3787	4161	4422	4476	967
25°	3025	3602	4065	4352	4387	1391
35°	2447	3043	3473	3678	3660	1520
45°	1725	2297	2645	2714	2643	1330
55°	1055	1651	1936	1886	1807	951
65°	578	1212	1455	1355	1290	581
75°	285	922	1120	1035	994	306
85°	76	698	879	824	803	83
90°	4	620	796	759	742	6
95°	2	616	800	759	737	2
105°	2	602	831	790	763	2
115°	2	544	829	805	768	2
125°	2	424	772	798	759	2
135°	2	154	642	746	724	2
145°	2	6	394	602	609	1
155°	2	2	61	281	352	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°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	3662.6	3647.4	3636.5	3647.4	3651.8	3656.1	3667.0	3664.8	3667.0	3662.6	3656.1
5°	3643.1	3630.0	3625.7	3647.4	3669.2	3680.0	3695.3	3710.5	3723.5	3740.9	3745.3
7.5°	3610.4	3603.9	3608.3	3647.4	3682.2	3708.3	3730.1	3769.2	3808.4	3847.5	3884.5
10°	3566.9	3562.6	3582.2	3640.9	3697.4	3734.4	3771.4	3843.2	3910.6	3971.5	4023.7
12.5°	3501.7	3512.6	3545.2	3623.5	3712.7	3764.9	3823.6	3912.8	3984.5	4054.1	4106.3
15°	3438.6	3445.2	3508.2	3601.7	3706.1	3786.6	3847.5	3960.6	4034.6	4106.3	4160.7
17.5°	3356.0	3371.2	3440.8	3573.5	3701.8	3773.6	3847.5	3936.7	4025.9	4108.5	4182.5
20°	3255.9	3288.6	3382.1	3527.8	3673.5	3745.3	3810.5	3919.3	4010.6	4091.1	4175.9
22.5°	3149.4	3186.3	3290.7	3464.7	3614.8	3686.6	3749.6	3869.3	3962.8	4043.3	4134.6
25°	3025.4	3073.2	3197.2	3384.3	3527.8	3601.7	3669.2	3791.0	3888.8	3969.3	4065.0
27.5°	2899.2	2953.6	3088.5	3277.7	3425.6	3495.2	3564.8	3686.6	3784.4	3864.9	3965.0
30°	2753.5	2812.2	2964.5	3147.2	3292.9	3369.0	3432.1	3551.7	3658.3	3730.1	3830.1
32.5°	2596.9	2664.3	2827.5	3003.6	3149.4	3221.1	3284.2	3399.5	3495.2	3571.3	3662.6
35°	2446.8	2501.2	2666.5	2838.3	2977.5	3042.8	3116.7	3227.7	3312.5	3390.8	3473.4
37.5°	2266.3	2331.6	2499.0	2662.2	2801.4	2871.0	2931.9	3034.1	3112.4	3186.3	3279.9
40°	2083.6	2155.4	2329.4	2475.1	2618.7	2673.0	2733.9	2827.5	2901.4	2992.8	3060.2
42.5°	1911.8	1979.2	2144.5	2292.4	2427.3	2481.6	2540.4	2638.2	2701.3	2779.6	2847.0
45°	1724.8	1794.3	1970.5	2109.7	2238.0	2296.8	2357.7	2438.1	2509.9	2573.0	2644.8
47.5°	1546.4	1629.1	1798.7	1929.2	2059.7	2114.1	2166.3	2251.1	2322.9	2390.3	2440.3
50°	1370.2	1459.4	1624.7	1766.1	1890.0	1944.4	1996.6	2081.4	2155.4	2214.1	2266.3
52.5°	1209.3	1302.8	1472.5	1620.4	1731.3	1787.8	1840.0	1922.7	1996.6	2051.0	2085.8
55°	1054.9	1159.3	1335.4	1479.0	1589.9	1650.8	1692.1	1779.1	1853.1	1903.1	1935.7
57.5°	920.0	1035.3	1202.8	1350.7	1465.9	1520.3	1570.3	1653.0	1722.6	1770.4	1796.5
60°	787.3	915.7	1089.7	1233.2	1350.7	1402.9	1457.2	1539.9	1605.1	1648.6	1672.6
62.5°	676.4	811.3	991.8	1131.0	1250.6	1302.8	1350.7	1433.3	1496.4	1539.9	1559.5
65°	578.5	719.9	902.6	1041.8	1157.1	1211.5	1261.5	1346.3	1405.0	1446.4	1455.1
67.5°	493.7	637.3	822.1	959.2	1078.8	1128.8	1178.8	1263.7	1320.2	1355.0	1361.5
70°	417.6	563.3	748.2	885.2	1002.7	1057.0	1107.1	1183.2	1241.9	1270.2	1278.9
72.5°	348.0	500.2	678.6	820.0	937.4	987.4	1035.3	1115.8	1170.1	1196.2	1194.1
75°	284.9	441.5	619.9	759.1	870.0	922.2	970.0	1048.3	1102.7	1124.5	1120.1
77.5°	230.5	391.5	563.3	698.2	811.3	863.5	907.0	985.3	1035.3	1059.2	1054.9
80°	174.0	337.1	508.9	641.6	754.7	802.6	850.4	924.4	974.4	998.3	987.4
82.5°	126.1	287.1	458.9	589.4	700.3	750.4	793.9	870.0	917.8	937.4	930.9
85°	76.1	237.1	404.5	539.4	650.3	698.2	746.0	817.8	865.6	885.2	878.7
87.5°	32.6	191.4	358.9	493.7	604.6	652.5	698.2	769.9	815.6	835.2	828.7
90°	4.3	160.9	330.6	463.3	572.0	619.9	665.5	737.3	783.0	802.6	796.0
92.5°	2.2	154.4	321.9	454.6	563.3	613.3	656.8	730.8	778.6	796.0	793.9
95°	2.2	143.5	317.5	454.6	565.5	615.5	661.2	735.1	783.0	802.6	800.4
97.5°	2.2	128.3	311.0	452.4	567.7	619.9	665.5	743.8	793.9	815.6	813.4
100°	2.2	104.4	298.0	445.9	563.3	617.7	663.4	743.8	796.0	820.0	820.0
102.5°	2.2	71.8	282.7	435.0	559.0	611.2	659.0	741.7	796.0	822.1	826.5
105°	2.2	43.5	263.2	421.9	548.1	602.5	652.5	737.3	793.9	824.3	830.8
107.5°	2.2	28.3	239.2	406.7	537.2	593.8	643.8	730.8	789.5	824.3	833.0
110°	2.2	23.9	208.8	389.3	522.0	578.5	630.7	722.1	783.0	822.1	835.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.2	19.6	160.9	365.4	504.6	563.3	617.7	706.9	774.3	813.4	833.0
115°	2.2	15.2	104.4	337.1	482.8	543.7	598.1	691.6	759.1	804.7	828.7
117.5°	2.2	13.0	67.4	304.5	458.9	519.8	576.4	672.1	743.8	791.7	820.0
120°	2.2	10.9	28.3	261.0	428.5	493.7	550.3	646.0	722.1	774.3	806.9
122.5°	2.2	8.7	21.7	195.7	393.7	461.1	519.8	619.9	696.0	754.7	789.5
125°	2.2	8.7	17.4	126.1	350.2	424.1	487.2	589.4	669.9	730.8	772.1
127.5°	2.2	6.5	15.2	84.8	298.0	380.6	448.0	554.6	637.3	700.3	746.0
130°	2.2	6.5	13.0	37.0	221.8	326.2	400.2	513.3	600.3	667.7	717.7
132.5°	2.2	4.3	10.9	15.2	137.0	252.3	339.3	461.1	556.8	628.6	685.1
135°	2.2	4.3	8.7	13.0	91.3	154.4	265.3	402.4	500.2	576.4	641.6
137.5°	2.2	4.3	6.5	10.9	37.0	102.2	163.1	337.1	439.3	519.8	587.2
140°	2.2	4.3	6.5	8.7	10.9	47.8	110.9	256.6	371.9	458.9	524.2
142.5°	2.2	4.3	6.5	6.5	8.7	10.9	54.4	150.1	298.0	391.5	463.3
145°	2.2	2.2	4.3	6.5	6.5	6.5	8.7	102.2	193.6	317.5	393.7
147.5°	2.2	2.2	4.3	4.3	6.5	6.5	6.5	41.3	119.6	224.0	317.5
150°	2.2	2.2	4.3	4.3	4.3	4.3	4.3	4.3	60.9	121.8	215.3
152.5°	2.2	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	69.6	119.6
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	6.5	60.9
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	3667.0	3686.6	3695.3	3704.0	3706.1	3708.3	3704.0	3701.8	3686.6	3677.9
5°	3775.7	3823.6	3843.2	3871.4	3873.6	3875.8	3888.8	3882.3	3884.5	3873.6
7.5°	3934.5	4004.1	4034.6	4071.5	4080.2	4091.1	4112.9	4115.0	4112.9	4097.6
10°	4082.4	4141.1	4186.8	4221.6	4234.7	4243.4	4269.5	4276.0	4271.6	4260.8
12.5°	4171.6	4247.7	4293.4	4343.4	4356.5	4369.5	4391.3	4402.1	4389.1	4382.6
15°	4247.7	4328.2	4365.2	4419.5	4421.7	4445.6	4482.6	4487.0	4480.4	4476.1
17.5°	4267.3	4349.9	4404.3	4452.2	4469.6	4484.8	4506.5	4523.9	4526.1	4508.7
20°	4262.9	4341.2	4406.5	4456.5	4476.1	4487.0	4515.2	4528.3	4521.8	4513.1
22.5°	4228.1	4306.4	4371.7	4415.2	4432.6	4450.0	4476.1	4487.0	4487.0	4469.6
25°	4156.4	4234.7	4291.2	4336.9	4352.1	4369.5	4395.6	4402.1	4397.8	4386.9
27.5°	4054.1	4123.7	4180.3	4219.4	4234.7	4249.9	4278.2	4284.7	4276.0	4265.1
30°	3904.1	3975.8	4032.4	4067.2	4080.2	4091.1	4108.5	4123.7	4110.7	4099.8
32.5°	3740.9	3806.2	3845.3	3878.0	3886.7	3895.4	3912.8	3919.3	3906.2	3908.4
35°	3549.5	3606.1	3651.8	3673.5	3677.9	3675.7	3684.4	3686.6	3688.7	3660.5
37.5°	3340.8	3390.8	3412.5	3443.0	3436.5	3447.3	3456.0	3447.3	3425.6	3414.7
40°	3116.7	3149.4	3186.3	3197.2	3190.7	3205.9	3201.6	3186.3	3162.4	3153.7
42.5°	2894.9	2931.9	2944.9	2953.6	2947.1	2949.3	2940.6	2936.2	2912.3	2892.7
45°	2683.9	2710.0	2716.5	2714.4	2714.4	2703.5	2692.6	2675.2	2653.5	2642.6
47.5°	2477.3	2494.7	2496.9	2486.0	2477.3	2464.2	2466.4	2436.0	2409.9	2396.8
50°	2285.9	2292.4	2285.9	2266.3	2262.0	2246.7	2238.0	2214.1	2190.2	2183.7
52.5°	2114.1	2111.9	2098.8	2077.1	2068.4	2053.2	2037.9	2016.2	1992.3	1992.3
55°	1946.6	1940.1	1922.7	1898.7	1885.7	1879.2	1859.6	1835.7	1818.3	1807.4
57.5°	1800.9	1787.8	1766.1	1744.3	1726.9	1709.5	1696.5	1679.1	1657.3	1653.0
60°	1670.4	1644.3	1624.7	1600.8	1587.7	1572.5	1555.1	1542.1	1524.7	1507.3
62.5°	1548.6	1526.8	1500.7	1476.8	1463.8	1450.7	1433.3	1413.7	1402.9	1398.5
65°	1442.0	1420.3	1389.8	1365.9	1355.0	1342.0	1328.9	1307.2	1300.6	1289.8
67.5°	1346.3	1318.0	1289.8	1268.0	1257.1	1252.8	1239.7	1226.7	1211.5	1202.8
70°	1257.1	1228.9	1202.8	1187.5	1174.5	1170.1	1159.3	1141.9	1131.0	1124.5
72.5°	1172.3	1148.4	1126.6	1104.9	1096.2	1094.0	1085.3	1072.3	1061.4	1054.9
75°	1100.5	1076.6	1054.9	1044.0	1035.3	1028.8	1024.4	1011.4	1004.8	994.0
77.5°	1037.5	1009.2	989.6	978.7	972.2	967.9	963.5	957.0	948.3	941.8
80°	970.0	948.3	933.1	922.2	917.8	913.5	909.1	904.8	898.3	891.7
82.5°	913.5	893.9	880.9	872.2	872.2	867.8	865.6	861.3	854.8	846.1
85°	859.1	841.7	830.8	826.5	824.3	822.1	820.0	815.6	809.1	802.6
87.5°	813.4	800.4	789.5	787.3	787.3	785.2	783.0	780.8	774.3	767.8
90°	783.0	769.9	763.4	761.2	759.1	759.1	759.1	754.7	748.2	741.7
92.5°	778.6	765.6	759.1	754.7	754.7	754.7	754.7	750.4	743.8	735.1
95°	785.2	772.1	765.6	761.2	759.1	759.1	756.9	752.5	746.0	737.3
97.5°	800.4	787.3	778.6	772.1	769.9	769.9	767.8	763.4	756.9	750.4
100°	809.1	796.0	787.3	780.8	778.6	776.5	774.3	769.9	763.4	754.7
102.5°	815.6	802.6	791.7	787.3	785.2	783.0	778.6	774.3	767.8	759.1
105°	820.0	809.1	800.4	791.7	789.5	787.3	783.0	778.6	769.9	763.4
107.5°	826.5	815.6	804.7	798.2	793.9	791.7	787.3	783.0	774.3	765.6
110°	828.7	820.0	809.1	802.6	798.2	796.0	789.5	783.0	774.3	767.8



TEST NUMBER: P232504

CATALOG NUMBER: 8SKB1-LD5-16-W-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	830.8	824.3	813.4	804.7	802.6	798.2	791.7	785.2	776.5	767.8
115°	830.8	824.3	815.6	806.9	804.7	800.4	793.9	785.2	776.5	767.8
117.5°	828.7	824.3	817.8	809.1	804.7	800.4	793.9	785.2	774.3	767.8
120°	822.1	822.1	815.6	809.1	804.7	800.4	791.7	783.0	774.3	765.6
122.5°	811.3	815.6	811.3	804.7	802.6	798.2	791.7	780.8	769.9	763.4
125°	796.0	806.9	804.7	800.4	798.2	793.9	787.3	778.6	767.8	759.1
127.5°	776.5	791.7	796.0	793.9	791.7	789.5	780.8	772.1	763.4	752.5
130°	752.5	772.1	780.8	780.8	780.8	778.6	774.3	765.6	754.7	746.0
132.5°	722.1	746.0	759.1	765.6	765.6	765.6	761.2	754.7	746.0	735.1
135°	687.3	717.7	735.1	743.8	746.0	746.0	746.0	741.7	733.0	724.3
137.5°	646.0	680.8	704.7	717.7	722.1	724.3	726.4	722.1	713.4	704.7
140°	585.1	635.1	665.5	682.9	687.3	693.8	698.2	693.8	687.3	680.8
142.5°	524.2	576.4	619.9	643.8	648.1	654.7	661.2	661.2	654.7	648.1
145°	458.9	511.1	556.8	595.9	602.5	609.0	617.7	622.0	615.5	609.0
147.5°	382.8	437.2	485.0	528.5	548.1	556.8	565.5	569.8	567.7	561.1
150°	302.3	361.0	406.7	450.2	469.8	495.9	506.8	508.9	506.8	500.2
152.5°	182.7	267.5	319.7	363.2	380.6	404.5	435.0	441.5	437.2	432.8
155°	102.2	139.2	195.7	261.0	280.6	302.3	339.3	354.5	352.3	352.3
157.5°	30.4	76.1	104.4	128.3	137.0	150.1	193.6	230.5	241.4	243.6
160°	2.2	2.2	26.1	52.2	65.2	78.3	100.0	113.1	115.3	117.4
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)