

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: P232502

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232502
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-L840-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13906.2 lumens
Efficiency: N/A
Efficacy: 131.9 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

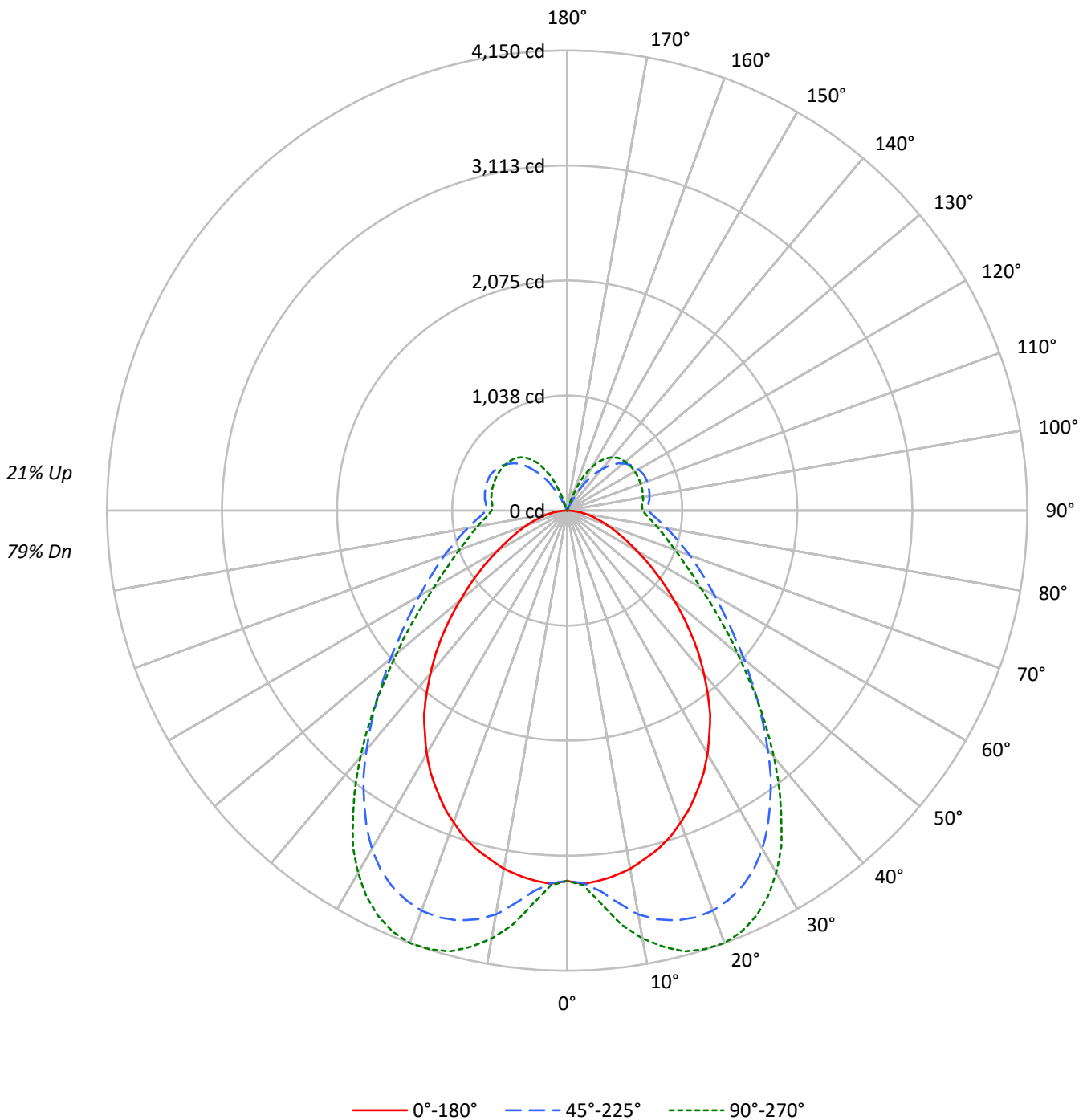
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17975	17975	17975
5°	18040	17317	17461
10°	17810	17582	17758
15°	17447	17360	17471
20°	16923	16793	16683
25°	16244	15892	15514
30°	15410	14678	13999
35°	14414	13150	12171
40°	13061	11535	10295
45°	11647	10001	8536
50°	10110	8664	7033
55°	8651	7540	5849
60°	7330	6693	4939
65°	6284	6033	4313
70°	5492	5545	3869
75°	4796	5130	3550
80°	4109	4831	3337
85°	3051	4652	3179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	2.4
10°-20°	1060.1	7.6
20°-30°	1661.2	11.9
30°-40°	1902.3	13.7
40°-50°	1752.0	12.6
50°-60°	1437.9	10.3
60°-70°	1149.7	8.3
70°-80°	923.5	6.6
80°-90°	734.6	5.3
90°-100°	656.6	4.7
100°-110°	639.4	4.6
110°-120°	579.5	4.2
120°-130°	479.0	3.4
130°-140°	343.6	2.5
140°-150°	190.9	1.4
150°-160°	57.4	0.4
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	3058.5	22.0
0°-40°	4960.8	35.7
0°-60°	8150.7	58.6
0°-90°	10958.5	78.8
90°-120°	1875.5	13.5
90°-150°	2889.0	20.8
90°-180°	2948.0	21.2
0°-180°	13906.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3340	3340	3340	3340	3340	
5°	3350	3384	3444	3562	3562	317
15°	3162	3482	3826	4066	4116	889
25°	2782	3312	3738	4002	4034	1279
35°	2250	2798	3194	3382	3366	1397
45°	1586	2112	2432	2496	2430	1223
55°	970	1518	1780	1734	1662	875
65°	532	1114	1338	1246	1186	534
75°	262	848	1030	952	914	281
85°	70	642	808	758	738	76
90°	4	570	732	698	682	5
95°	2	566	736	698	678	2
105°	2	554	764	726	702	2
115°	2	500	762	740	706	2
125°	2	390	710	734	698	2
135°	2	142	590	686	666	2
145°	2	6	362	554	560	1
155°	2	2	56	258	324	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232502

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3367.9	3353.9	3343.9	3353.9	3357.9	3361.9	3371.9	3369.9	3371.9	3367.9	3361.9
5°	3349.9	3337.9	3333.9	3353.9	3373.9	3383.9	3397.9	3411.9	3423.9	3439.9	3443.9
7.5°	3319.9	3313.9	3317.9	3353.9	3385.9	3409.9	3429.9	3465.9	3501.9	3537.9	3571.9
10°	3279.9	3275.9	3293.9	3347.9	3399.9	3433.9	3467.9	3533.9	3595.9	3651.9	3699.9
12.5°	3219.9	3229.9	3259.9	3331.9	3413.9	3461.9	3515.9	3597.9	3663.9	3727.9	3775.9
15°	3161.9	3167.9	3225.9	3311.9	3407.9	3481.9	3537.9	3641.9	3709.9	3775.9	3825.9
17.5°	3085.9	3099.9	3163.9	3285.9	3403.9	3469.9	3537.9	3619.9	3701.9	3777.9	3845.9
20°	2993.9	3023.9	3109.9	3243.9	3377.9	3443.9	3503.9	3603.9	3687.9	3761.9	3839.9
22.5°	2895.9	2929.9	3025.9	3185.9	3323.9	3389.9	3447.9	3557.9	3643.9	3717.9	3801.9
25°	2781.9	2825.9	2939.9	3111.9	3243.9	3311.9	3373.9	3485.9	3575.9	3649.9	3737.9
27.5°	2665.9	2715.9	2839.9	3013.9	3149.9	3213.9	3277.9	3389.9	3479.9	3553.9	3645.9
30°	2531.9	2585.9	2725.9	2893.9	3027.9	3097.9	3155.9	3265.9	3363.9	3429.9	3521.9
32.5°	2387.9	2449.9	2599.9	2761.9	2895.9	2961.9	3019.9	3125.9	3213.9	3283.9	3367.9
35°	2249.9	2299.9	2451.9	2609.9	2737.9	2797.9	2865.9	2967.9	3045.9	3117.9	3193.9
37.5°	2083.9	2143.9	2297.9	2447.9	2575.9	2639.9	2695.9	2789.9	2861.9	2929.9	3015.9
40°	1915.9	1981.9	2141.9	2275.9	2407.9	2457.9	2513.9	2599.9	2667.9	2751.9	2813.9
42.5°	1757.9	1819.9	1971.9	2107.9	2231.9	2281.9	2335.9	2425.9	2483.9	2555.9	2617.9
45°	1586.0	1650.0	1811.9	1939.9	2057.9	2111.9	2167.9	2241.9	2307.9	2365.9	2431.9
47.5°	1422.0	1498.0	1654.0	1773.9	1893.9	1943.9	1991.9	2069.9	2135.9	2197.9	2243.9
50°	1260.0	1342.0	1494.0	1624.0	1737.9	1787.9	1835.9	1913.9	1981.9	2035.9	2083.9
52.5°	1112.0	1198.0	1354.0	1490.0	1592.0	1644.0	1692.0	1767.9	1835.9	1885.9	1917.9
55°	970.0	1066.0	1228.0	1360.0	1462.0	1518.0	1556.0	1636.0	1704.0	1749.9	1779.9
57.5°	846.0	952.0	1106.0	1242.0	1348.0	1398.0	1444.0	1520.0	1584.0	1628.0	1652.0
60°	724.0	842.0	1002.0	1134.0	1242.0	1290.0	1340.0	1416.0	1476.0	1516.0	1538.0
62.5°	622.0	746.0	912.0	1040.0	1150.0	1198.0	1242.0	1318.0	1376.0	1416.0	1434.0
65°	532.0	662.0	830.0	958.0	1064.0	1114.0	1160.0	1238.0	1292.0	1330.0	1338.0
67.5°	454.0	586.0	756.0	882.0	992.0	1038.0	1084.0	1162.0	1214.0	1246.0	1252.0
70°	384.0	518.0	688.0	814.0	922.0	972.0	1018.0	1088.0	1142.0	1168.0	1176.0
72.5°	320.0	460.0	624.0	754.0	862.0	908.0	952.0	1026.0	1076.0	1100.0	1098.0
75°	262.0	406.0	570.0	698.0	800.0	848.0	892.0	964.0	1014.0	1034.0	1030.0
77.5°	212.0	360.0	518.0	642.0	746.0	794.0	834.0	906.0	952.0	974.0	970.0
80°	160.0	310.0	468.0	590.0	694.0	738.0	782.0	850.0	896.0	918.0	908.0
82.5°	116.0	264.0	422.0	542.0	644.0	690.0	730.0	800.0	844.0	862.0	856.0
85°	70.0	218.0	372.0	496.0	598.0	642.0	686.0	752.0	796.0	814.0	808.0
87.5°	30.0	176.0	330.0	454.0	556.0	600.0	642.0	708.0	750.0	768.0	762.0
90°	4.0	148.0	304.0	426.0	526.0	570.0	612.0	678.0	720.0	738.0	732.0
92.5°	2.0	142.0	296.0	418.0	518.0	564.0	604.0	672.0	716.0	732.0	730.0
95°	2.0	132.0	292.0	418.0	520.0	566.0	608.0	676.0	720.0	738.0	736.0
97.5°	2.0	118.0	286.0	416.0	522.0	570.0	612.0	684.0	730.0	750.0	748.0
100°	2.0	96.0	274.0	410.0	518.0	568.0	610.0	684.0	732.0	754.0	754.0
102.5°	2.0	66.0	260.0	400.0	514.0	562.0	606.0	682.0	732.0	756.0	760.0
105°	2.0	40.0	242.0	388.0	504.0	554.0	600.0	678.0	730.0	758.0	764.0
107.5°	2.0	26.0	220.0	374.0	494.0	546.0	592.0	672.0	726.0	758.0	766.0
110°	2.0	22.0	192.0	358.0	480.0	532.0	580.0	664.0	720.0	756.0	768.0



TEST NUMBER: P232502

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.0	18.0	148.0	336.0	464.0	518.0	568.0	650.0	712.0	748.0	766.0
115°	2.0	14.0	96.0	310.0	444.0	500.0	550.0	636.0	698.0	740.0	762.0
117.5°	2.0	12.0	62.0	280.0	422.0	478.0	530.0	618.0	684.0	728.0	754.0
120°	2.0	10.0	26.0	240.0	394.0	454.0	506.0	594.0	664.0	712.0	742.0
122.5°	2.0	8.0	20.0	180.0	362.0	424.0	478.0	570.0	640.0	694.0	726.0
125°	2.0	8.0	16.0	116.0	322.0	390.0	448.0	542.0	616.0	672.0	710.0
127.5°	2.0	6.0	14.0	78.0	274.0	350.0	412.0	510.0	586.0	644.0	686.0
130°	2.0	6.0	12.0	34.0	204.0	300.0	368.0	472.0	552.0	614.0	660.0
132.5°	2.0	4.0	10.0	14.0	126.0	232.0	312.0	424.0	512.0	578.0	630.0
135°	2.0	4.0	8.0	12.0	84.0	142.0	244.0	370.0	460.0	530.0	590.0
137.5°	2.0	4.0	6.0	10.0	34.0	94.0	150.0	310.0	404.0	478.0	540.0
140°	2.0	4.0	6.0	8.0	10.0	44.0	102.0	236.0	342.0	422.0	482.0
142.5°	2.0	4.0	6.0	6.0	8.0	10.0	50.0	138.0	274.0	360.0	426.0
145°	2.0	2.0	4.0	6.0	6.0	6.0	8.0	94.0	178.0	292.0	362.0
147.5°	2.0	2.0	4.0	4.0	6.0	6.0	6.0	38.0	110.0	206.0	292.0
150°	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	56.0	112.0	198.0
152.5°	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0	64.0	110.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	6.0	56.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



TEST NUMBER: P232502

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3371.9	3389.9	3397.9	3405.9	3407.9	3409.9	3405.9	3403.9	3389.9	3381.9
5°	3471.9	3515.9	3533.9	3559.9	3561.9	3563.9	3575.9	3569.9	3571.9	3561.9
7.5°	3617.9	3681.9	3709.9	3743.9	3751.9	3761.9	3781.9	3783.9	3781.9	3767.9
10°	3753.9	3807.9	3849.9	3881.9	3893.9	3901.9	3925.9	3931.9	3927.9	3917.9
12.5°	3835.9	3905.9	3947.9	3993.9	4005.9	4017.9	4037.9	4047.9	4035.9	4029.9
15°	3905.9	3979.9	4013.9	4063.9	4065.9	4087.9	4121.9	4125.9	4119.9	4115.9
17.5°	3923.9	3999.9	4049.9	4093.9	4109.9	4123.9	4143.9	4159.9	4161.9	4145.9
20°	3919.9	3991.9	4051.9	4097.9	4115.9	4125.9	4151.9	4163.9	4157.9	4149.9
22.5°	3887.9	3959.9	4019.9	4059.9	4075.9	4091.9	4115.9	4125.9	4125.9	4109.9
25°	3821.9	3893.9	3945.9	3987.9	4001.9	4017.9	4041.9	4047.9	4043.9	4033.9
27.5°	3727.9	3791.9	3843.9	3879.9	3893.9	3907.9	3933.9	3939.9	3931.9	3921.9
30°	3589.9	3655.9	3707.9	3739.9	3751.9	3761.9	3777.9	3791.9	3779.9	3769.9
32.5°	3439.9	3499.9	3535.9	3565.9	3573.9	3581.9	3597.9	3603.9	3591.9	3593.9
35°	3263.9	3315.9	3357.9	3377.9	3381.9	3379.9	3387.9	3389.9	3391.9	3365.9
37.5°	3071.9	3117.9	3137.9	3165.9	3159.9	3169.9	3177.9	3169.9	3149.9	3139.9
40°	2865.9	2895.9	2929.9	2939.9	2933.9	2947.9	2943.9	2929.9	2907.9	2899.9
42.5°	2661.9	2695.9	2707.9	2715.9	2709.9	2711.9	2703.9	2699.9	2677.9	2659.9
45°	2467.9	2491.9	2497.9	2495.9	2495.9	2485.9	2475.9	2459.9	2439.9	2429.9
47.5°	2277.9	2293.9	2295.9	2285.9	2277.9	2265.9	2267.9	2239.9	2215.9	2203.9
50°	2101.9	2107.9	2101.9	2083.9	2079.9	2065.9	2057.9	2035.9	2013.9	2007.9
52.5°	1943.9	1941.9	1929.9	1909.9	1901.9	1887.9	1873.9	1853.9	1831.9	1831.9
55°	1789.9	1783.9	1767.9	1745.9	1733.9	1727.9	1710.0	1688.0	1672.0	1662.0
57.5°	1656.0	1644.0	1624.0	1604.0	1588.0	1572.0	1560.0	1544.0	1524.0	1520.0
60°	1536.0	1512.0	1494.0	1472.0	1460.0	1446.0	1430.0	1418.0	1402.0	1386.0
62.5°	1424.0	1404.0	1380.0	1358.0	1346.0	1334.0	1318.0	1300.0	1290.0	1286.0
65°	1326.0	1306.0	1278.0	1256.0	1246.0	1234.0	1222.0	1202.0	1196.0	1186.0
67.5°	1238.0	1212.0	1186.0	1166.0	1156.0	1152.0	1140.0	1128.0	1114.0	1106.0
70°	1156.0	1130.0	1106.0	1092.0	1080.0	1076.0	1066.0	1050.0	1040.0	1034.0
72.5°	1078.0	1056.0	1036.0	1016.0	1008.0	1006.0	998.0	986.0	976.0	970.0
75°	1012.0	990.0	970.0	960.0	952.0	946.0	942.0	930.0	924.0	914.0
77.5°	954.0	928.0	910.0	900.0	894.0	890.0	886.0	880.0	872.0	866.0
80°	892.0	872.0	858.0	848.0	844.0	840.0	836.0	832.0	826.0	820.0
82.5°	840.0	822.0	810.0	802.0	802.0	798.0	796.0	792.0	786.0	778.0
85°	790.0	774.0	764.0	760.0	758.0	756.0	754.0	750.0	744.0	738.0
87.5°	748.0	736.0	726.0	724.0	724.0	722.0	720.0	718.0	712.0	706.0
90°	720.0	708.0	702.0	700.0	698.0	698.0	698.0	694.0	688.0	682.0
92.5°	716.0	704.0	698.0	694.0	694.0	694.0	694.0	690.0	684.0	676.0
95°	722.0	710.0	704.0	700.0	698.0	698.0	696.0	692.0	686.0	678.0
97.5°	736.0	724.0	716.0	710.0	708.0	708.0	706.0	702.0	696.0	690.0
100°	744.0	732.0	724.0	718.0	716.0	714.0	712.0	708.0	702.0	694.0
102.5°	750.0	738.0	728.0	724.0	722.0	720.0	716.0	712.0	706.0	698.0
105°	754.0	744.0	736.0	728.0	726.0	724.0	720.0	716.0	708.0	702.0
107.5°	760.0	750.0	740.0	734.0	730.0	728.0	724.0	720.0	712.0	704.0
110°	762.0	754.0	744.0	738.0	734.0	732.0	726.0	720.0	712.0	706.0



TEST NUMBER: P232502

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	764.0	758.0	748.0	740.0	738.0	734.0	728.0	722.0	714.0	706.0
115°	764.0	758.0	750.0	742.0	740.0	736.0	730.0	722.0	714.0	706.0
117.5°	762.0	758.0	752.0	744.0	740.0	736.0	730.0	722.0	712.0	706.0
120°	756.0	756.0	750.0	744.0	740.0	736.0	728.0	720.0	712.0	704.0
122.5°	746.0	750.0	746.0	740.0	738.0	734.0	728.0	718.0	708.0	702.0
125°	732.0	742.0	740.0	736.0	734.0	730.0	724.0	716.0	706.0	698.0
127.5°	714.0	728.0	732.0	730.0	728.0	726.0	718.0	710.0	702.0	692.0
130°	692.0	710.0	718.0	718.0	718.0	716.0	712.0	704.0	694.0	686.0
132.5°	664.0	686.0	698.0	704.0	704.0	704.0	700.0	694.0	686.0	676.0
135°	632.0	660.0	676.0	684.0	686.0	686.0	686.0	682.0	674.0	666.0
137.5°	594.0	626.0	648.0	660.0	664.0	666.0	668.0	664.0	656.0	648.0
140°	538.0	584.0	612.0	628.0	632.0	638.0	642.0	638.0	632.0	626.0
142.5°	482.0	530.0	570.0	592.0	596.0	602.0	608.0	608.0	602.0	596.0
145°	422.0	470.0	512.0	548.0	554.0	560.0	568.0	572.0	566.0	560.0
147.5°	352.0	402.0	446.0	486.0	504.0	512.0	520.0	524.0	522.0	516.0
150°	278.0	332.0	374.0	414.0	432.0	456.0	466.0	468.0	466.0	460.0
152.5°	168.0	246.0	294.0	334.0	350.0	372.0	400.0	406.0	402.0	398.0
155°	94.0	128.0	180.0	240.0	258.0	278.0	312.0	326.0	324.0	324.0
157.5°	28.0	70.0	96.0	118.0	126.0	138.0	178.0	212.0	222.0	224.0
160°	2.0	2.0	24.0	48.0	60.0	72.0	92.0	104.0	106.0	108.0
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)