

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: P232499

Luminaire Tested: **8SKB1-LD5-12-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232499
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-LD5-12-W-UNV-L840-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12106.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

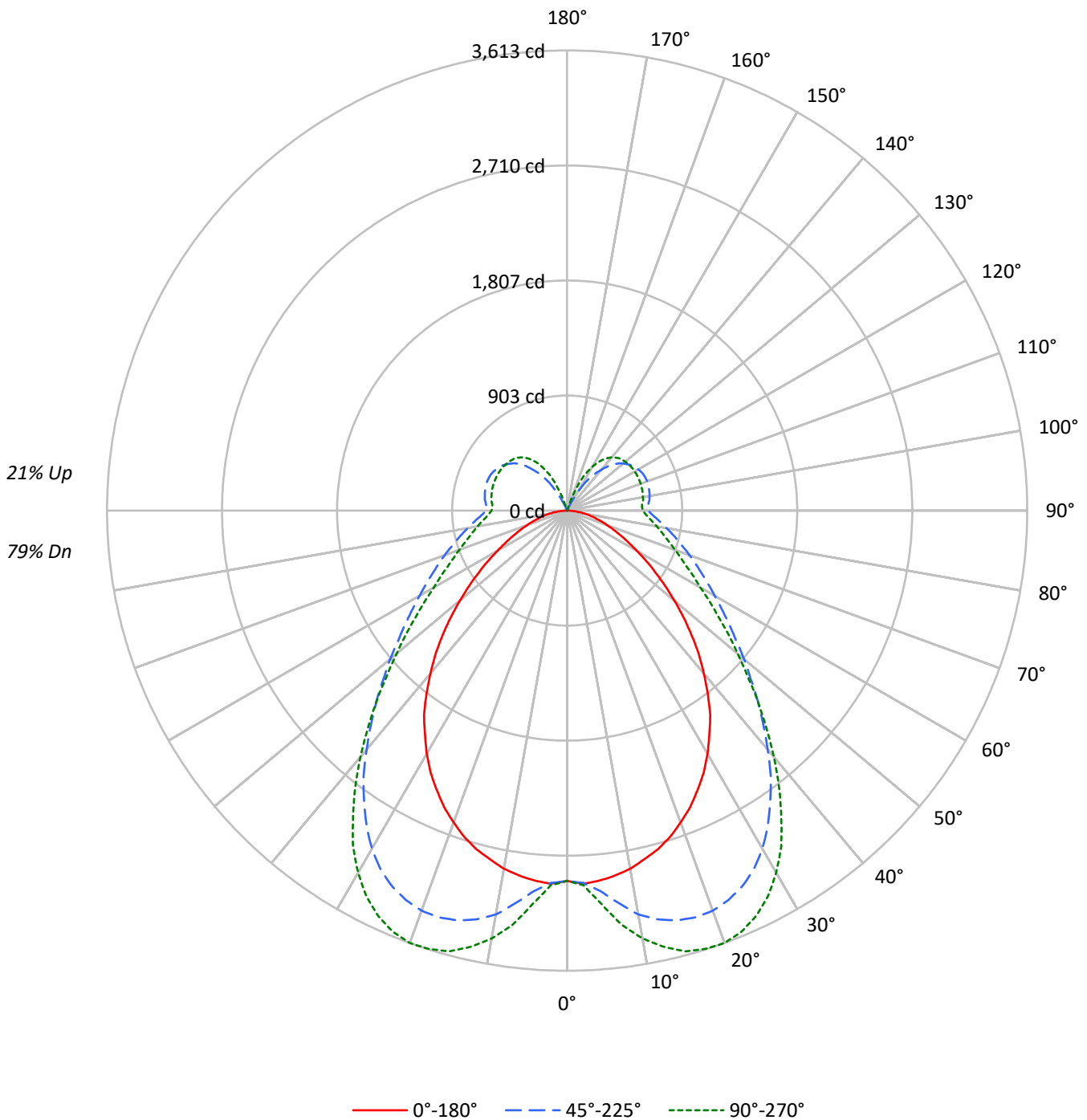
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

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°	15649	15649	15649
5°	15705	15075	15201
10°	15505	15307	15460
15°	15189	15113	15210
20°	14732	14619	14524
25°	14141	13835	13506
30°	13416	12778	12187
35°	12549	11448	10596
40°	11370	10042	8962
45°	10139	8707	7431
50°	8802	7543	6123
55°	7531	6564	5092
60°	6382	5826	4299
65°	5470	5252	3755
70°	4782	4827	3368
75°	4175	4466	3090
80°	3578	4206	2905
85°	2654	4050	2768



TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	2.4
10°-20°	922.9	7.6
20°-30°	1446.2	11.9
30°-40°	1656.1	13.7
40°-50°	1525.3	12.6
50°-60°	1251.8	10.3
60°-70°	1000.8	8.3
70°-80°	803.9	6.6
80°-90°	639.5	5.3
90°-100°	571.6	4.7
100°-110°	556.7	4.6
110°-120°	504.5	4.2
120°-130°	417.0	3.4
130°-140°	299.1	2.5
140°-150°	166.2	1.4
150°-160°	50.0	0.4
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	2662.6	22.0
0°-40°	4318.6	35.7
0°-60°	7095.7	58.6
0°-90°	9539.9	78.8
90°-120°	1632.7	13.5
90°-150°	2514.9	20.8
90°-180°	2566.0	21.2
0°-180°	12106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2916	2946	2998	3101	3101	276
15°	2753	3031	3331	3540	3583	774
25°	2422	2883	3254	3484	3512	1113
35°	1959	2436	2780	2944	2930	1217
45°	1381	1839	2117	2173	2115	1065
55°	844	1322	1550	1510	1447	761
65°	463	970	1165	1085	1032	465
75°	228	738	897	829	796	245
85°	61	559	703	660	642	67
90°	4	496	637	608	594	5
95°	2	493	641	608	590	1
105°	2	482	665	632	611	2
115°	2	435	663	644	615	2
125°	2	340	618	639	608	2
135°	2	124	514	597	580	1
145°	2	5	315	482	488	1
155°	2	2	49	225	282	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6
2.5°	2932.0	2919.8	2911.1	2919.8	2923.3	2926.7	2935.4	2933.7	2935.4	2932.0	2926.7
5°	2916.3	2905.8	2902.4	2919.8	2937.2	2945.9	2958.1	2970.3	2980.7	2994.6	2998.1
7.5°	2890.2	2885.0	2888.4	2919.8	2947.6	2968.5	2985.9	3017.3	3048.6	3080.0	3109.5
10°	2855.4	2851.9	2867.5	2914.5	2959.8	2989.4	3019.0	3076.5	3130.4	3179.2	3221.0
12.5°	2803.1	2811.8	2837.9	2900.6	2972.0	3013.8	3060.8	3132.2	3189.6	3245.4	3287.1
15°	2752.6	2757.9	2808.3	2883.2	2966.8	3031.2	3080.0	3170.5	3229.7	3287.1	3330.7
17.5°	2686.5	2698.7	2754.4	2860.6	2963.3	3020.8	3080.0	3151.3	3222.7	3288.9	3348.1
20°	2606.4	2632.5	2707.4	2824.0	2940.7	2998.1	3050.4	3137.4	3210.5	3274.9	3342.9
22.5°	2521.1	2550.7	2634.2	2773.5	2893.7	2951.1	3001.6	3097.4	3172.2	3236.6	3309.8
25°	2421.8	2460.1	2559.4	2709.1	2824.0	2883.2	2937.2	3034.7	3113.0	3177.4	3254.1
27.5°	2320.8	2364.4	2472.3	2623.8	2742.2	2797.9	2853.6	2951.1	3029.5	3093.9	3174.0
30°	2204.2	2251.2	2373.1	2519.3	2636.0	2696.9	2747.4	2843.2	2928.5	2985.9	3066.0
32.5°	2078.8	2132.8	2263.4	2404.4	2521.1	2578.5	2629.0	2721.3	2797.9	2858.8	2932.0
35°	1958.7	2002.2	2134.5	2272.1	2383.5	2435.8	2495.0	2583.7	2651.6	2714.3	2780.5
37.5°	1814.2	1866.4	2000.5	2131.1	2242.5	2298.2	2347.0	2428.8	2491.5	2550.7	2625.5
40°	1667.9	1725.4	1864.7	1981.3	2096.2	2139.8	2188.5	2263.4	2322.6	2395.7	2449.7
42.5°	1530.4	1584.4	1716.7	1835.1	1943.0	1986.6	2033.6	2111.9	2162.4	2225.1	2279.1
45°	1380.7	1436.4	1577.4	1688.8	1791.6	1838.6	1887.3	1951.7	2009.2	2059.7	2117.1
47.5°	1237.9	1304.1	1439.9	1544.3	1648.8	1692.3	1734.1	1802.0	1859.5	1913.4	1953.5
50°	1096.9	1168.3	1300.6	1413.7	1513.0	1556.5	1598.3	1666.2	1725.4	1772.4	1814.2
52.5°	968.0	1042.9	1178.7	1297.1	1385.9	1431.2	1472.9	1539.1	1598.3	1641.8	1669.7
55°	844.4	928.0	1069.0	1183.9	1272.7	1321.5	1354.6	1424.2	1483.4	1523.4	1549.6
57.5°	736.5	828.7	962.8	1081.2	1173.5	1217.0	1257.1	1323.2	1378.9	1417.2	1438.1
60°	630.3	733.0	872.3	987.2	1081.2	1123.0	1166.5	1232.7	1284.9	1319.7	1338.9
62.5°	541.5	649.4	793.9	905.4	1001.1	1042.9	1081.2	1147.4	1197.9	1232.7	1248.3
65°	463.1	576.3	722.5	834.0	926.2	969.8	1009.8	1077.7	1124.7	1157.8	1164.8
67.5°	395.2	510.1	658.1	767.8	863.6	903.6	943.7	1011.6	1056.8	1084.7	1089.9
70°	334.3	450.9	598.9	708.6	802.6	846.2	886.2	947.1	994.2	1016.8	1023.7
72.5°	278.6	400.4	543.2	656.4	750.4	790.4	828.7	893.2	936.7	957.6	955.8
75°	228.1	353.4	496.2	607.6	696.4	738.2	776.5	839.2	882.7	900.1	896.7
77.5°	184.6	313.4	450.9	558.9	649.4	691.2	726.0	788.7	828.7	847.9	844.4
80°	139.3	269.9	407.4	513.6	604.2	642.5	680.8	740.0	780.0	799.2	790.4
82.5°	101.0	229.8	367.4	471.8	560.6	600.7	635.5	696.4	734.7	750.4	745.2
85°	60.9	189.8	323.8	431.8	520.6	558.9	597.2	654.6	692.9	708.6	703.4
87.5°	26.1	153.2	287.3	395.2	484.0	522.3	558.9	616.3	652.9	668.6	663.3
90°	3.5	128.8	264.6	370.8	457.9	496.2	532.8	590.2	626.8	642.5	637.2
92.5°	1.7	123.6	257.7	363.9	450.9	491.0	525.8	585.0	623.3	637.2	635.5
95°	1.7	114.9	254.2	363.9	452.7	492.7	529.3	588.5	626.8	642.5	640.7
97.5°	1.7	102.7	249.0	362.1	454.4	496.2	532.8	595.4	635.5	652.9	651.2
100°	1.7	83.6	238.5	356.9	450.9	494.5	531.0	595.4	637.2	656.4	656.4
102.5°	1.7	57.5	226.3	348.2	447.5	489.2	527.5	593.7	637.2	658.1	661.6
105°	1.7	34.8	210.7	337.8	438.7	482.3	522.3	590.2	635.5	659.9	665.1
107.5°	1.7	22.6	191.5	325.6	430.0	475.3	515.4	585.0	632.0	659.9	666.8
110°	1.7	19.2	167.1	311.7	417.9	463.1	504.9	578.0	626.8	658.1	668.6



TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.7	15.7	128.8	292.5	403.9	450.9	494.5	565.8	619.8	651.2	666.8
115°	1.7	12.2	83.6	269.9	386.5	435.3	478.8	553.7	607.6	644.2	663.3
117.5°	1.7	10.4	54.0	243.7	367.4	416.1	461.4	538.0	595.4	633.7	656.4
120°	1.7	8.7	22.6	208.9	343.0	395.2	440.5	517.1	578.0	619.8	645.9
122.5°	1.7	7.0	17.4	156.7	315.1	369.1	416.1	496.2	557.1	604.2	632.0
125°	1.7	7.0	13.9	101.0	280.3	339.5	390.0	471.8	536.2	585.0	618.1
127.5°	1.7	5.2	12.2	67.9	238.5	304.7	358.7	444.0	510.1	560.6	597.2
130°	1.7	5.2	10.4	29.6	177.6	261.2	320.4	410.9	480.5	534.5	574.6
132.5°	1.7	3.5	8.7	12.2	109.7	202.0	271.6	369.1	445.7	503.2	548.4
135°	1.7	3.5	7.0	10.4	73.1	123.6	212.4	322.1	400.4	461.4	513.6
137.5°	1.7	3.5	5.2	8.7	29.6	81.8	130.6	269.9	351.7	416.1	470.1
140°	1.7	3.5	5.2	7.0	8.7	38.3	88.8	205.4	297.7	367.4	419.6
142.5°	1.7	3.5	5.2	5.2	7.0	8.7	43.5	120.1	238.5	313.4	370.8
145°	1.7	1.7	3.5	5.2	5.2	5.2	7.0	81.8	155.0	254.2	315.1
147.5°	1.7	1.7	3.5	3.5	5.2	5.2	5.2	33.1	95.8	179.3	254.2
150°	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	48.7	97.5	172.4
152.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	55.7	95.8
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.2	48.7
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6	2907.6
2.5°	2935.4	2951.1	2958.1	2965.0	2966.8	2968.5	2965.0	2963.3	2951.1	2944.1
5°	3022.5	3060.8	3076.5	3099.1	3100.8	3102.6	3113.0	3107.8	3109.5	3100.8
7.5°	3149.6	3205.3	3229.7	3259.3	3266.2	3274.9	3292.4	3294.1	3292.4	3280.2
10°	3268.0	3315.0	3351.6	3379.4	3389.9	3396.8	3417.7	3422.9	3419.5	3410.8
12.5°	3339.4	3400.3	3436.9	3476.9	3487.4	3497.8	3515.2	3523.9	3513.5	3508.3
15°	3400.3	3464.7	3494.3	3537.9	3539.6	3558.7	3588.3	3591.8	3586.6	3583.1
17.5°	3416.0	3482.1	3525.7	3564.0	3577.9	3590.1	3607.5	3621.4	3623.2	3609.2
20°	3412.5	3475.2	3527.4	3567.4	3583.1	3591.8	3614.5	3624.9	3619.7	3612.7
22.5°	3384.6	3447.3	3499.5	3534.4	3548.3	3562.2	3583.1	3591.8	3591.8	3577.9
25°	3327.2	3389.9	3435.1	3471.7	3483.9	3497.8	3518.7	3523.9	3520.4	3511.7
27.5°	3245.4	3301.1	3346.3	3377.7	3389.9	3402.0	3424.7	3429.9	3422.9	3414.2
30°	3125.2	3182.7	3227.9	3255.8	3266.2	3274.9	3288.9	3301.1	3290.6	3281.9
32.5°	2994.6	3046.9	3078.2	3104.3	3111.3	3118.3	3132.2	3137.4	3127.0	3128.7
35°	2841.4	2886.7	2923.3	2940.7	2944.1	2942.4	2949.4	2951.1	2952.9	2930.2
37.5°	2674.3	2714.3	2731.7	2756.1	2750.9	2759.6	2766.6	2759.6	2742.2	2733.5
40°	2495.0	2521.1	2550.7	2559.4	2554.1	2566.3	2562.9	2550.7	2531.5	2524.5
42.5°	2317.4	2347.0	2357.4	2364.4	2359.1	2360.9	2353.9	2350.4	2331.3	2315.6
45°	2148.5	2169.4	2174.6	2172.9	2172.9	2164.1	2155.4	2141.5	2124.1	2115.4
47.5°	1983.1	1997.0	1998.7	1990.0	1983.1	1972.6	1974.4	1950.0	1929.1	1918.7
50°	1829.9	1835.1	1829.9	1814.2	1810.7	1798.5	1791.6	1772.4	1753.3	1748.0
52.5°	1692.3	1690.6	1680.1	1662.7	1655.8	1643.6	1631.4	1614.0	1594.8	1594.8
55°	1558.3	1553.0	1539.1	1520.0	1509.5	1504.3	1488.6	1469.5	1455.5	1446.8
57.5°	1441.6	1431.2	1413.7	1396.3	1382.4	1368.5	1358.0	1344.1	1326.7	1323.2
60°	1337.1	1316.2	1300.6	1281.4	1271.0	1258.8	1244.9	1234.4	1220.5	1206.6
62.5°	1239.6	1222.2	1201.3	1182.2	1171.7	1161.3	1147.4	1131.7	1123.0	1119.5
65°	1154.3	1136.9	1112.5	1093.4	1084.7	1074.2	1063.8	1046.4	1041.2	1032.5
67.5°	1077.7	1055.1	1032.5	1015.0	1006.3	1002.9	992.4	982.0	969.8	962.8
70°	1006.3	983.7	962.8	950.6	940.2	936.7	928.0	914.1	905.4	900.1
72.5°	938.4	919.3	901.9	884.5	877.5	875.8	868.8	858.3	849.6	844.4
75°	881.0	861.8	844.4	835.7	828.7	823.5	820.0	809.6	804.4	795.7
77.5°	830.5	807.9	792.2	783.5	778.3	774.8	771.3	766.1	759.1	753.9
80°	776.5	759.1	746.9	738.2	734.7	731.2	727.8	724.3	719.1	713.8
82.5°	731.2	715.6	705.1	698.2	698.2	694.7	692.9	689.5	684.2	677.3
85°	687.7	673.8	665.1	661.6	659.9	658.1	656.4	652.9	647.7	642.5
87.5°	651.2	640.7	632.0	630.3	630.3	628.5	626.8	625.0	619.8	614.6
90°	626.8	616.3	611.1	609.4	607.6	607.6	607.6	604.2	598.9	593.7
92.5°	623.3	612.9	607.6	604.2	604.2	604.2	604.2	600.7	595.4	588.5
95°	628.5	618.1	612.9	609.4	607.6	607.6	605.9	602.4	597.2	590.2
97.5°	640.7	630.3	623.3	618.1	616.3	616.3	614.6	611.1	605.9	600.7
100°	647.7	637.2	630.3	625.0	623.3	621.6	619.8	616.3	611.1	604.2
102.5°	652.9	642.5	633.7	630.3	628.5	626.8	623.3	619.8	614.6	607.6
105°	656.4	647.7	640.7	633.7	632.0	630.3	626.8	623.3	616.3	611.1
107.5°	661.6	652.9	644.2	639.0	635.5	633.7	630.3	626.8	619.8	612.9
110°	663.3	656.4	647.7	642.5	639.0	637.2	632.0	626.8	619.8	614.6



TEST NUMBER: P232499

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	665.1	659.9	651.2	644.2	642.5	639.0	633.7	628.5	621.6	614.6
115°	665.1	659.9	652.9	645.9	644.2	640.7	635.5	628.5	621.6	614.6
117.5°	663.3	659.9	654.6	647.7	644.2	640.7	635.5	628.5	619.8	614.6
120°	658.1	658.1	652.9	647.7	644.2	640.7	633.7	626.8	619.8	612.9
122.5°	649.4	652.9	649.4	644.2	642.5	639.0	633.7	625.0	616.3	611.1
125°	637.2	645.9	644.2	640.7	639.0	635.5	630.3	623.3	614.6	607.6
127.5°	621.6	633.7	637.2	635.5	633.7	632.0	625.0	618.1	611.1	602.4
130°	602.4	618.1	625.0	625.0	625.0	623.3	619.8	612.9	604.2	597.2
132.5°	578.0	597.2	607.6	612.9	612.9	612.9	609.4	604.2	597.2	588.5
135°	550.2	574.6	588.5	595.4	597.2	597.2	597.2	593.7	586.7	579.8
137.5°	517.1	545.0	564.1	574.6	578.0	579.8	581.5	578.0	571.1	564.1
140°	468.3	508.4	532.8	546.7	550.2	555.4	558.9	555.4	550.2	545.0
142.5°	419.6	461.4	496.2	515.4	518.8	524.1	529.3	529.3	524.1	518.8
145°	367.4	409.2	445.7	477.1	482.3	487.5	494.5	497.9	492.7	487.5
147.5°	306.4	350.0	388.3	423.1	438.7	445.7	452.7	456.2	454.4	449.2
150°	242.0	289.0	325.6	360.4	376.1	397.0	405.7	407.4	405.7	400.4
152.5°	146.2	214.2	255.9	290.8	304.7	323.8	348.2	353.4	350.0	346.5
155°	81.8	111.4	156.7	208.9	224.6	242.0	271.6	283.8	282.1	282.1
157.5°	24.4	60.9	83.6	102.7	109.7	120.1	155.0	184.6	193.3	195.0
160°	1.7	1.7	20.9	41.8	52.2	62.7	80.1	90.5	92.3	94.0
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)