

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: P232496

Luminaire Tested: **8SKB1-LD5-10-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232496
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-LD5-10-W-UNV-L840-CD1-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: 10122.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

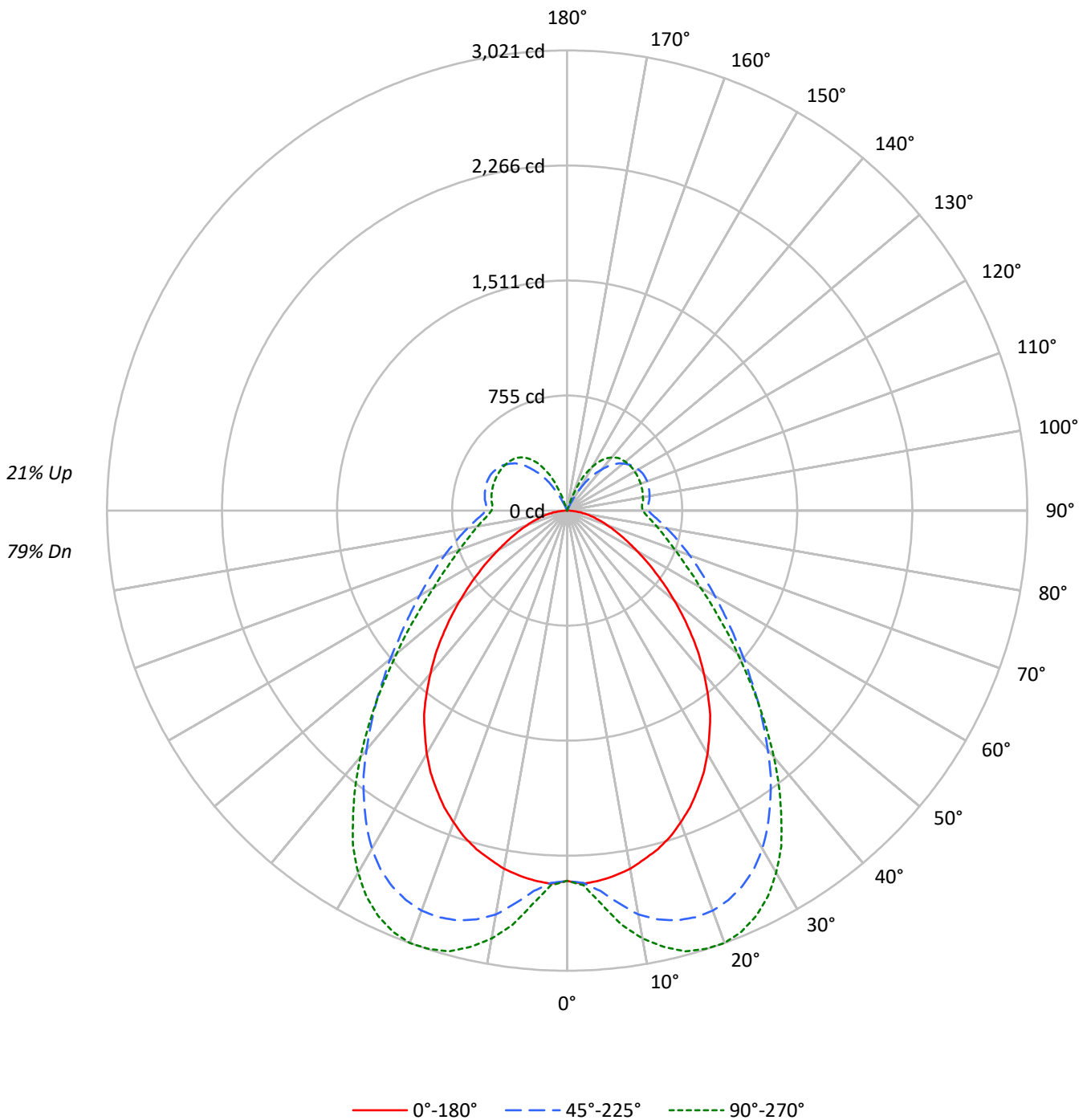
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-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°	13084	13084	13084
5°	13132	12605	12710
10°	12964	12798	12926
15°	12699	12636	12717
20°	12318	12223	12143
25°	11824	11568	11293
30°	11217	10683	10190
35°	10492	9572	8859
40°	9507	8396	7494
45°	8477	7280	6213
50°	7359	6307	5119
55°	6297	5488	4257
60°	5336	4872	3595
65°	4573	4391	3139
70°	3998	4036	2816
75°	3491	3734	2584
80°	2992	3517	2429
85°	2223	3386	2314



TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	2.4
10°-20°	771.6	7.6
20°-30°	1209.2	11.9
30°-40°	1384.7	13.7
40°-50°	1275.3	12.6
50°-60°	1046.6	10.3
60°-70°	836.8	8.3
70°-80°	672.2	6.6
80°-90°	534.7	5.3
90°-100°	477.9	4.7
100°-110°	465.4	4.6
110°-120°	421.8	4.2
120°-130°	348.6	3.4
130°-140°	250.1	2.5
140°-150°	139.0	1.4
150°-160°	41.8	0.4
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	2226.2	22.0
0°-40°	3610.9	35.7
0°-60°	5932.8	58.6
0°-90°	7976.5	78.8
90°-120°	1365.1	13.5
90°-150°	2102.8	20.8
90°-180°	2146.0	21.2
0°-180°	10122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2431	2431	2431	2431	2431	
5°	2438	2463	2507	2593	2593	231
15°	2302	2534	2785	2960	2996	647
25°	2025	2411	2721	2913	2936	931
35°	1638	2037	2325	2462	2450	1017
45°	1154	1537	1770	1817	1769	890
55°	706	1105	1296	1262	1210	637
65°	387	811	974	907	863	389
75°	191	617	750	693	665	205
85°	51	467	588	552	537	56
90°	3	415	533	508	496	4
95°	2	412	536	508	494	1
105°	2	403	556	528	511	2
115°	2	364	555	539	514	1
125°	2	284	517	534	508	1
135°	2	103	429	499	485	1
145°	2	4	264	403	408	1
155°	2	2	41	188	236	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2451.5	2441.3	2434.0	2441.3	2444.2	2447.1	2454.4	2452.9	2454.4	2451.5	2447.1
5°	2438.4	2429.6	2426.7	2441.3	2455.8	2463.1	2473.3	2483.5	2492.2	2503.9	2506.8
7.5°	2416.5	2412.1	2415.1	2441.3	2464.6	2482.0	2496.6	2522.8	2549.0	2575.2	2599.9
10°	2387.4	2384.5	2397.6	2436.9	2474.7	2499.5	2524.2	2572.3	2617.4	2658.2	2693.1
12.5°	2343.7	2351.0	2372.8	2425.3	2484.9	2519.9	2559.2	2618.9	2666.9	2713.5	2748.4
15°	2301.5	2305.9	2348.1	2410.7	2480.6	2534.4	2575.2	2650.9	2700.4	2748.4	2784.8
17.5°	2246.2	2256.4	2303.0	2391.8	2477.7	2525.7	2575.2	2634.9	2694.6	2749.9	2799.4
20°	2179.2	2201.1	2263.7	2361.2	2458.7	2506.8	2550.4	2623.2	2684.4	2738.2	2795.0
22.5°	2107.9	2132.6	2202.5	2319.0	2419.4	2467.5	2509.7	2589.7	2652.3	2706.2	2767.3
25°	2024.9	2056.9	2139.9	2265.1	2361.2	2410.7	2455.8	2537.3	2602.8	2656.7	2720.8
27.5°	1940.5	1976.9	2067.1	2193.8	2292.8	2339.4	2385.9	2467.5	2533.0	2586.8	2653.8
30°	1843.0	1882.3	1984.2	2106.4	2204.0	2254.9	2297.1	2377.2	2448.5	2496.6	2563.5
32.5°	1738.1	1783.3	1892.5	2010.4	2107.9	2155.9	2198.2	2275.3	2339.4	2390.3	2451.5
35°	1637.7	1674.1	1784.7	1899.7	1992.9	2036.6	2086.1	2160.3	2217.1	2269.5	2324.8
37.5°	1516.9	1560.5	1672.6	1781.8	1875.0	1921.6	1962.3	2030.7	2083.2	2132.6	2195.2
40°	1394.6	1442.6	1559.1	1656.6	1752.7	1789.1	1829.9	1892.5	1941.9	2003.1	2048.2
42.5°	1279.6	1324.7	1435.4	1534.3	1624.6	1661.0	1700.3	1765.8	1808.0	1860.4	1905.6
45°	1154.4	1201.0	1318.9	1412.1	1497.9	1537.3	1578.0	1631.9	1679.9	1722.1	1770.2
47.5°	1035.0	1090.3	1203.9	1291.2	1378.6	1415.0	1449.9	1506.7	1554.7	1599.8	1633.3
50°	917.1	976.8	1087.4	1182.1	1265.0	1301.4	1336.4	1393.1	1442.6	1481.9	1516.9
52.5°	809.4	872.0	985.5	1084.5	1158.8	1196.6	1231.5	1286.9	1336.4	1372.8	1396.0
55°	706.0	775.9	893.8	989.9	1064.1	1104.9	1132.6	1190.8	1240.3	1273.8	1295.6
57.5°	615.8	692.9	805.0	904.0	981.2	1017.6	1051.0	1106.4	1152.9	1185.0	1202.4
60°	527.0	612.9	729.3	825.4	904.0	938.9	975.3	1030.7	1074.3	1103.4	1119.5
62.5°	452.7	543.0	663.8	757.0	837.0	872.0	904.0	959.3	1001.5	1030.7	1043.8
65°	387.2	481.8	604.1	697.3	774.4	810.8	844.3	901.1	940.4	968.1	973.9
67.5°	330.5	426.5	550.3	642.0	722.0	755.5	789.0	845.8	883.6	906.9	911.3
70°	279.5	377.0	500.8	592.5	671.1	707.5	741.0	791.9	831.2	850.1	856.0
72.5°	232.9	334.8	454.2	548.8	627.4	660.9	692.9	746.8	783.2	800.7	799.2
75°	190.7	295.5	414.9	508.1	582.3	617.2	649.3	701.7	738.1	752.6	749.7
77.5°	154.3	262.0	377.0	467.3	543.0	577.9	607.0	659.4	692.9	708.9	706.0
80°	116.5	225.6	340.6	429.4	505.1	537.2	569.2	618.7	652.2	668.2	660.9
82.5°	84.4	192.2	307.2	394.5	468.7	502.2	531.3	582.3	614.3	627.4	623.1
85°	51.0	158.7	270.8	361.0	435.3	467.3	499.3	547.4	579.4	592.5	588.1
87.5°	21.8	128.1	240.2	330.5	404.7	436.7	467.3	515.3	545.9	559.0	554.6
90°	2.9	107.7	221.3	310.1	382.9	414.9	445.5	493.5	524.1	537.2	532.8
92.5°	1.5	103.4	215.4	304.2	377.0	410.5	439.6	489.1	521.2	532.8	531.3
95°	1.5	96.1	212.5	304.2	378.5	412.0	442.5	492.0	524.1	537.2	535.7
97.5°	1.5	85.9	208.2	302.8	379.9	414.9	445.5	497.9	531.3	545.9	544.4
100°	1.5	69.9	199.4	298.4	377.0	413.4	444.0	497.9	532.8	548.8	548.8
102.5°	1.5	48.0	189.2	291.1	374.1	409.1	441.1	496.4	532.8	550.3	553.2
105°	1.5	29.1	176.1	282.4	366.8	403.2	436.7	493.5	531.3	551.7	556.1
107.5°	1.5	18.9	160.1	272.2	359.6	397.4	430.9	489.1	528.4	551.7	557.5
110°	1.5	16.0	139.8	260.6	349.4	387.2	422.2	483.3	524.1	550.3	559.0



TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.5	13.1	107.7	244.6	337.7	377.0	413.4	473.1	518.2	544.4	557.5
115°	1.5	10.2	69.9	225.6	323.2	363.9	400.3	462.9	508.1	538.6	554.6
117.5°	1.5	8.7	45.1	203.8	307.2	347.9	385.8	449.8	497.9	529.9	548.8
120°	1.5	7.3	18.9	174.7	286.8	330.5	368.3	432.4	483.3	518.2	540.1
122.5°	1.5	5.8	14.6	131.0	263.5	308.6	347.9	414.9	465.8	505.1	528.4
125°	1.5	5.8	11.6	84.4	234.4	283.9	326.1	394.5	448.4	489.1	516.8
127.5°	1.5	4.4	10.2	56.8	199.4	254.8	299.9	371.2	426.5	468.7	499.3
130°	1.5	4.4	8.7	24.7	148.5	218.4	267.9	343.6	401.8	446.9	480.4
132.5°	1.5	2.9	7.3	10.2	91.7	168.9	227.1	308.6	372.7	420.7	458.6
135°	1.5	2.9	5.8	8.7	61.1	103.4	177.6	269.3	334.8	385.8	429.4
137.5°	1.5	2.9	4.4	7.3	24.7	68.4	109.2	225.6	294.1	347.9	393.0
140°	1.5	2.9	4.4	5.8	7.3	32.0	74.2	171.8	248.9	307.2	350.8
142.5°	1.5	2.9	4.4	4.4	5.8	7.3	36.4	100.4	199.4	262.0	310.1
145°	1.5	1.5	2.9	4.4	4.4	4.4	5.8	68.4	129.6	212.5	263.5
147.5°	1.5	1.5	2.9	2.9	4.4	4.4	4.4	27.7	80.1	149.9	212.5
150°	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9	40.8	81.5	144.1
152.5°	1.5	1.5	1.5	2.9	2.9	2.9	2.9	2.9	4.4	46.6	80.1
155°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.4	40.8
157.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2454.4	2467.5	2473.3	2479.1	2480.6	2482.0	2479.1	2477.7	2467.5	2461.6
5°	2527.2	2559.2	2572.3	2591.2	2592.7	2594.1	2602.8	2598.5	2599.9	2592.7
7.5°	2633.4	2680.0	2700.4	2725.1	2731.0	2738.2	2752.8	2754.2	2752.8	2742.6
10°	2732.4	2771.7	2802.3	2825.6	2834.3	2840.1	2857.6	2862.0	2859.1	2851.8
12.5°	2792.1	2843.0	2873.6	2907.1	2915.8	2924.6	2939.1	2946.4	2937.7	2933.3
15°	2843.0	2896.9	2921.7	2958.0	2959.5	2975.5	3000.3	3003.2	2998.8	2995.9
17.5°	2856.1	2911.5	2947.9	2979.9	2991.5	3001.7	3016.3	3027.9	3029.4	3017.7
20°	2853.2	2905.6	2949.3	2982.8	2995.9	3003.2	3022.1	3030.8	3026.5	3020.6
22.5°	2829.9	2882.3	2926.0	2955.1	2966.8	2978.4	2995.9	3003.2	3003.2	2991.5
25°	2781.9	2834.3	2872.2	2902.7	2912.9	2924.6	2942.0	2946.4	2943.5	2936.2
27.5°	2713.5	2760.1	2797.9	2824.1	2834.3	2844.5	2863.4	2867.8	2862.0	2854.7
30°	2613.0	2661.1	2698.9	2722.2	2731.0	2738.2	2749.9	2760.1	2751.3	2744.1
32.5°	2503.9	2547.5	2573.7	2595.6	2601.4	2607.2	2618.9	2623.2	2614.5	2616.0
35°	2375.8	2413.6	2444.2	2458.7	2461.6	2460.2	2466.0	2467.5	2468.9	2450.0
37.5°	2236.0	2269.5	2284.0	2304.4	2300.1	2307.3	2313.2	2307.3	2292.8	2285.5
40°	2086.1	2107.9	2132.6	2139.9	2135.6	2145.7	2142.8	2132.6	2116.6	2110.8
42.5°	1937.6	1962.3	1971.1	1976.9	1972.5	1974.0	1968.2	1965.2	1949.2	1936.1
45°	1796.4	1813.8	1818.2	1816.8	1816.8	1809.5	1802.2	1790.6	1776.0	1768.7
47.5°	1658.1	1669.7	1671.2	1663.9	1658.1	1649.3	1650.8	1630.4	1613.0	1604.2
50°	1530.0	1534.3	1530.0	1516.9	1514.0	1503.8	1497.9	1481.9	1465.9	1461.6
52.5°	1415.0	1413.5	1404.8	1390.2	1384.4	1374.2	1364.0	1349.5	1333.5	1333.5
55°	1302.9	1298.5	1286.9	1270.9	1262.1	1257.8	1244.7	1228.6	1217.0	1209.7
57.5°	1205.3	1196.6	1182.1	1167.5	1155.9	1144.2	1135.5	1123.8	1109.3	1106.4
60°	1118.0	1100.5	1087.4	1071.4	1062.7	1052.5	1040.8	1032.1	1020.5	1008.8
62.5°	1036.5	1021.9	1004.5	988.4	979.7	971.0	959.3	946.2	938.9	936.0
65°	965.2	950.6	930.2	914.2	906.9	898.2	889.5	874.9	870.5	863.2
67.5°	901.1	882.2	863.2	848.7	841.4	838.5	829.8	821.0	810.8	805.0
70°	841.4	822.5	805.0	794.8	786.1	783.2	775.9	764.3	757.0	752.6
72.5°	784.6	768.6	754.1	739.5	733.7	732.2	726.4	717.7	710.4	706.0
75°	736.6	720.6	706.0	698.8	692.9	688.6	685.6	676.9	672.5	665.3
77.5°	694.4	675.5	662.4	655.1	650.7	647.8	644.9	640.5	634.7	630.3
80°	649.3	634.7	624.5	617.2	614.3	611.4	608.5	605.6	601.2	596.9
82.5°	611.4	598.3	589.6	583.7	583.7	580.8	579.4	576.5	572.1	566.3
85°	575.0	563.4	556.1	553.2	551.7	550.3	548.8	545.9	541.5	537.2
87.5°	544.4	535.7	528.4	527.0	527.0	525.5	524.1	522.6	518.2	513.9
90°	524.1	515.3	511.0	509.5	508.1	508.1	508.1	505.1	500.8	496.4
92.5°	521.2	512.4	508.1	505.1	505.1	505.1	505.1	502.2	497.9	492.0
95°	525.5	516.8	512.4	509.5	508.1	508.1	506.6	503.7	499.3	493.5
97.5°	535.7	527.0	521.2	516.8	515.3	515.3	513.9	511.0	506.6	502.2
100°	541.5	532.8	527.0	522.6	521.2	519.7	518.2	515.3	511.0	505.1
102.5°	545.9	537.2	529.9	527.0	525.5	524.1	521.2	518.2	513.9	508.1
105°	548.8	541.5	535.7	529.9	528.4	527.0	524.1	521.2	515.3	511.0
107.5°	553.2	545.9	538.6	534.3	531.3	529.9	527.0	524.1	518.2	512.4
110°	554.6	548.8	541.5	537.2	534.3	532.8	528.4	524.1	518.2	513.9



TEST NUMBER: P232496

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	556.1	551.7	544.4	538.6	537.2	534.3	529.9	525.5	519.7	513.9
115°	556.1	551.7	545.9	540.1	538.6	535.7	531.3	525.5	519.7	513.9
117.5°	554.6	551.7	547.4	541.5	538.6	535.7	531.3	525.5	518.2	513.9
120°	550.3	550.3	545.9	541.5	538.6	535.7	529.9	524.1	518.2	512.4
122.5°	543.0	545.9	543.0	538.6	537.2	534.3	529.9	522.6	515.3	511.0
125°	532.8	540.1	538.6	535.7	534.3	531.3	527.0	521.2	513.9	508.1
127.5°	519.7	529.9	532.8	531.3	529.9	528.4	522.6	516.8	511.0	503.7
130°	503.7	516.8	522.6	522.6	522.6	521.2	518.2	512.4	505.1	499.3
132.5°	483.3	499.3	508.1	512.4	512.4	512.4	509.5	505.1	499.3	492.0
135°	460.0	480.4	492.0	497.9	499.3	499.3	499.3	496.4	490.6	484.8
137.5°	432.4	455.6	471.7	480.4	483.3	484.8	486.2	483.3	477.5	471.7
140°	391.6	425.1	445.5	457.1	460.0	464.4	467.3	464.4	460.0	455.6
142.5°	350.8	385.8	414.9	430.9	433.8	438.2	442.5	442.5	438.2	433.8
145°	307.2	342.1	372.7	398.9	403.2	407.6	413.4	416.3	412.0	407.6
147.5°	256.2	292.6	324.6	353.7	366.8	372.7	378.5	381.4	379.9	375.6
150°	202.3	241.7	272.2	301.3	314.4	331.9	339.2	340.6	339.2	334.8
152.5°	122.3	179.1	214.0	243.1	254.8	270.8	291.1	295.5	292.6	289.7
155°	68.4	93.2	131.0	174.7	187.8	202.3	227.1	237.3	235.8	235.8
157.5°	20.4	51.0	69.9	85.9	91.7	100.4	129.6	154.3	161.6	163.0
160°	1.5	1.5	17.5	34.9	43.7	52.4	67.0	75.7	77.2	78.6
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)