

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: P232495

Luminaire Tested: **8SKB1-LD5-10-W-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232495
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-L835-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9464.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

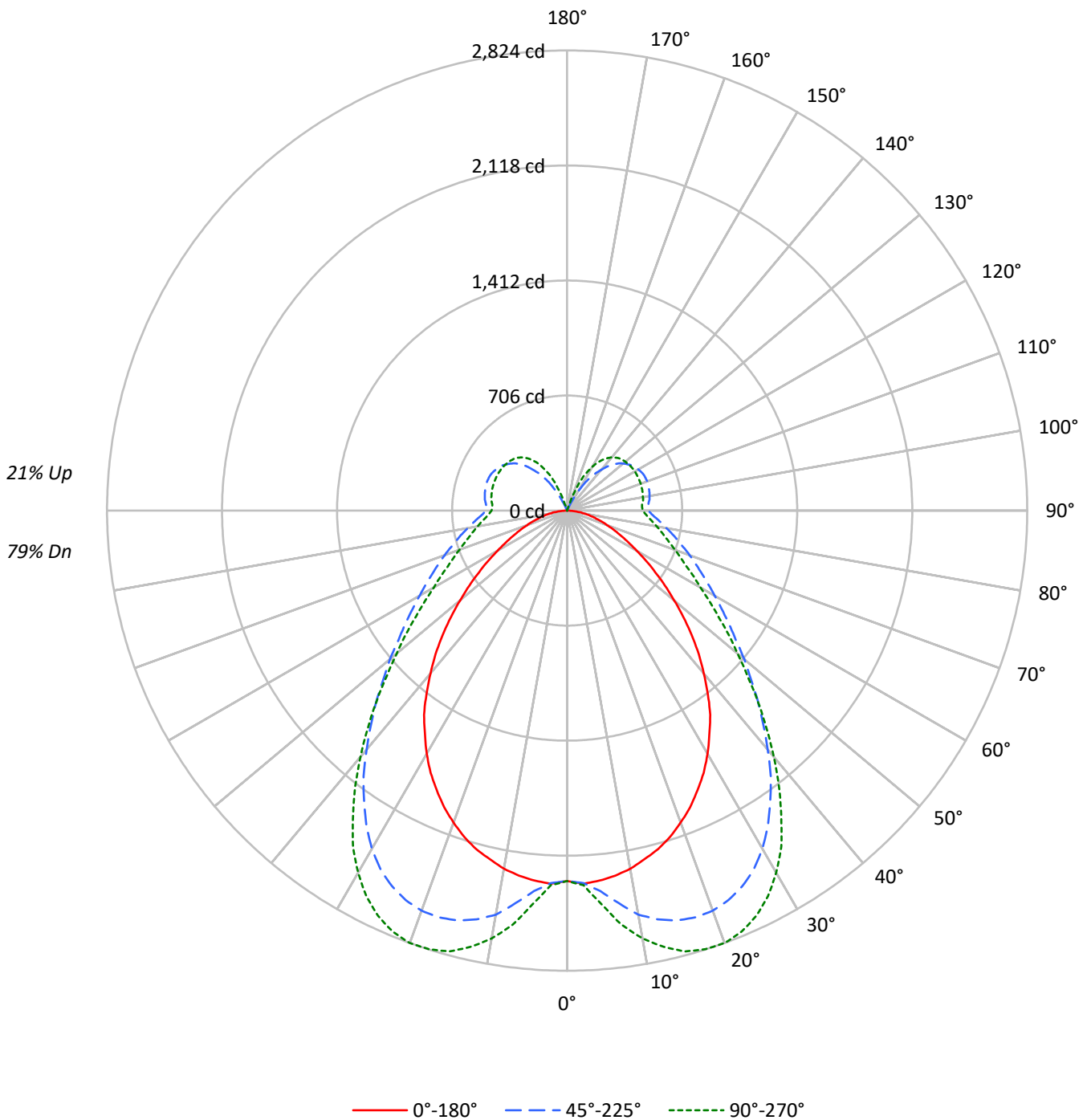
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232495

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L835-CD1-U

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°	12233	12233	12233
5°	12277	11785	11883
10°	12121	11966	12086
15°	11874	11815	11890
20°	11517	11428	11354
25°	11055	10816	10558
30°	10488	9989	9527
35°	9810	8950	8283
40°	8889	7851	7007
45°	7927	6807	5809
50°	6881	5897	4786
55°	5887	5132	3981
60°	4988	4555	3361
65°	4277	4106	2935
70°	3737	3773	2633
75°	3264	3491	2416
80°	2797	3288	2271
85°	2075	3166	2163



TEST NUMBER: P232495

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	2.4
10°-20°	721.5	7.6
20°-30°	1130.6	11.9
30°-40°	1294.6	13.7
40°-50°	1192.4	12.6
50°-60°	978.6	10.3
60°-70°	782.4	8.3
70°-80°	628.5	6.6
80°-90°	499.9	5.3
90°-100°	446.8	4.7
100°-110°	435.2	4.6
110°-120°	394.4	4.2
120°-130°	326.0	3.4
130°-140°	233.8	2.5
140°-150°	129.9	1.4
150°-160°	39.1	0.4
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	2081.5	22.0
0°-40°	3376.1	35.7
0°-60°	5547.1	58.6
0°-90°	7457.9	78.8
90°-120°	1276.4	13.5
90°-150°	1966.1	20.8
90°-180°	2006.0	21.2
0°-180°	9464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2280	2303	2344	2424	2424	216
15°	2152	2370	2604	2767	2801	605
25°	1893	2254	2544	2724	2745	870
35°	1531	1904	2174	2302	2291	951
45°	1079	1437	1655	1699	1654	832
55°	660	1033	1211	1180	1131	595
65°	362	758	911	848	807	364
75°	178	577	701	648	622	191
85°	48	437	550	516	502	52
90°	3	388	498	475	464	4
95°	1	385	501	475	461	1
105°	1	377	520	494	478	1
115°	1	340	519	504	480	1
125°	1	265	483	500	475	1
135°	1	97	402	467	453	1
145°	1	4	246	377	381	1
155°	1	1	38	176	220	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232495

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2292.1	2282.6	2275.8	2282.6	2285.3	2288.0	2294.8	2293.5	2294.8	2292.1	2288.0
5°	2279.8	2271.7	2269.0	2282.6	2296.2	2303.0	2312.5	2322.0	2330.2	2341.1	2343.8
7.5°	2259.4	2255.3	2258.1	2282.6	2304.3	2320.7	2334.3	2358.8	2383.3	2407.8	2430.9
10°	2232.2	2229.5	2241.7	2278.5	2313.9	2337.0	2360.1	2405.1	2447.3	2485.4	2518.0
12.5°	2191.4	2198.2	2218.6	2267.6	2323.4	2356.1	2392.8	2448.6	2493.5	2537.1	2569.8
15°	2151.9	2156.0	2195.5	2254.0	2319.3	2369.7	2407.8	2478.6	2524.8	2569.8	2603.8
17.5°	2100.2	2109.7	2153.3	2236.3	2316.6	2361.5	2407.8	2463.6	2519.4	2571.1	2617.4
20°	2037.6	2058.0	2116.5	2207.7	2298.9	2343.8	2384.6	2452.7	2509.9	2560.2	2613.3
22.5°	1970.9	1994.0	2059.3	2168.2	2262.1	2307.1	2346.5	2421.4	2479.9	2530.3	2587.5
25°	1893.3	1923.2	2000.8	2117.9	2207.7	2254.0	2296.2	2372.4	2433.6	2484.0	2543.9
27.5°	1814.3	1848.4	1932.8	2051.2	2143.7	2187.3	2230.8	2307.1	2368.3	2418.7	2481.3
30°	1723.2	1759.9	1855.2	1969.5	2060.7	2108.3	2147.8	2222.7	2289.4	2334.3	2396.9
32.5°	1625.2	1667.3	1769.4	1879.7	1970.9	2015.8	2055.3	2127.4	2187.3	2234.9	2292.1
35°	1531.2	1565.3	1668.7	1776.2	1863.3	1904.2	1950.5	2019.9	2073.0	2122.0	2173.7
37.5°	1418.3	1459.1	1563.9	1666.0	1753.1	1796.7	1834.8	1898.7	1947.7	1994.0	2052.5
40°	1303.9	1348.8	1457.7	1548.9	1638.8	1672.8	1710.9	1769.4	1815.7	1872.9	1915.1
42.5°	1196.4	1238.6	1342.0	1434.6	1519.0	1553.0	1589.8	1651.0	1690.5	1739.5	1781.7
45°	1079.4	1122.9	1233.2	1320.3	1400.6	1437.3	1475.4	1525.8	1570.7	1610.2	1655.1
47.5°	967.7	1019.5	1125.6	1207.3	1289.0	1323.0	1355.7	1408.7	1453.7	1495.8	1527.2
50°	857.5	913.3	1016.7	1105.2	1182.8	1216.8	1249.5	1302.6	1348.8	1385.6	1418.3
52.5°	756.8	815.3	921.5	1014.0	1083.4	1118.8	1151.5	1203.2	1249.5	1283.5	1305.3
55°	660.1	725.5	835.7	925.5	995.0	1033.1	1058.9	1113.4	1159.7	1191.0	1211.4
57.5°	575.7	647.9	752.7	845.2	917.4	951.4	982.7	1034.4	1078.0	1107.9	1124.3
60°	492.7	573.0	681.9	771.7	845.2	877.9	911.9	963.7	1004.5	1031.7	1046.7
62.5°	423.3	507.7	620.7	707.8	782.6	815.3	845.2	897.0	936.4	963.7	975.9
65°	362.1	450.5	564.9	652.0	724.1	758.1	789.4	842.5	879.3	905.1	910.6
67.5°	309.0	398.8	514.5	600.2	675.1	706.4	737.7	790.8	826.2	848.0	852.0
70°	261.3	352.5	468.2	554.0	627.5	661.5	692.8	740.4	777.2	794.9	800.3
72.5°	217.8	313.1	424.7	513.1	586.6	617.9	647.9	698.2	732.3	748.6	747.2
75°	178.3	276.3	387.9	475.0	544.4	577.1	607.1	656.1	690.1	703.7	701.0
77.5°	144.3	245.0	352.5	436.9	507.7	540.4	567.6	616.6	647.9	662.9	660.1
80°	108.9	211.0	318.5	401.5	472.3	502.2	532.2	578.5	609.8	624.7	617.9
82.5°	78.9	179.7	287.2	368.9	438.3	469.6	496.8	544.4	574.4	586.6	582.6
85°	47.6	148.4	253.2	337.6	407.0	436.9	466.9	511.8	541.7	554.0	549.9
87.5°	20.4	119.8	224.6	309.0	378.4	408.3	436.9	481.8	510.4	522.7	518.6
90°	2.7	100.7	206.9	289.9	358.0	387.9	416.5	461.4	490.0	502.2	498.2
92.5°	1.4	96.6	201.4	284.5	352.5	383.8	411.1	457.3	487.3	498.2	496.8
95°	1.4	89.8	198.7	284.5	353.9	385.2	413.8	460.1	490.0	502.2	500.9
97.5°	1.4	80.3	194.6	283.1	355.2	387.9	416.5	465.5	496.8	510.4	509.1
100°	1.4	65.3	186.5	279.0	352.5	386.6	415.1	465.5	498.2	513.1	513.1
102.5°	1.4	44.9	176.9	272.2	349.8	382.5	412.4	464.1	498.2	514.5	517.2
105°	1.4	27.2	164.7	264.1	343.0	377.0	408.3	461.4	496.8	515.9	519.9
107.5°	1.4	17.7	149.7	254.5	336.2	371.6	402.9	457.3	494.1	515.9	521.3
110°	1.4	15.0	130.7	243.6	326.7	362.1	394.7	451.9	490.0	514.5	522.7



TEST NUMBER: P232495

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.4	12.2	100.7	228.7	315.8	352.5	386.6	442.4	484.6	509.1	521.3
115°	1.4	9.5	65.3	211.0	302.2	340.3	374.3	432.8	475.0	503.6	518.6
117.5°	1.4	8.2	42.2	190.6	287.2	325.3	360.7	420.6	465.5	495.4	513.1
120°	1.4	6.8	17.7	163.3	268.1	309.0	344.4	404.2	451.9	484.6	505.0
122.5°	1.4	5.4	13.6	122.5	246.4	288.6	325.3	387.9	435.6	472.3	494.1
125°	1.4	5.4	10.9	78.9	219.1	265.4	304.9	368.9	419.2	457.3	483.2
127.5°	1.4	4.1	9.5	53.1	186.5	238.2	280.4	347.1	398.8	438.3	466.9
130°	1.4	4.1	8.2	23.1	138.8	204.2	250.4	321.2	375.7	417.9	449.2
132.5°	1.4	2.7	6.8	9.5	85.7	157.9	212.3	288.6	348.4	393.4	428.7
135°	1.4	2.7	5.4	8.2	57.2	96.6	166.1	251.8	313.1	360.7	401.5
137.5°	1.4	2.7	4.1	6.8	23.1	64.0	102.1	211.0	274.9	325.3	367.5
140°	1.4	2.7	4.1	5.4	6.8	29.9	69.4	160.6	232.7	287.2	328.0
142.5°	1.4	2.7	4.1	4.1	5.4	6.8	34.0	93.9	186.5	245.0	289.9
145°	1.4	1.4	2.7	4.1	4.1	4.1	5.4	64.0	121.1	198.7	246.4
147.5°	1.4	1.4	2.7	2.7	4.1	4.1	4.1	25.9	74.9	140.2	198.7
150°	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7	38.1	76.2	134.7
152.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	4.1	43.6	74.9
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.1	38.1
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P232495

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2294.8	2307.1	2312.5	2318.0	2319.3	2320.7	2318.0	2316.6	2307.1	2301.6
5°	2362.9	2392.8	2405.1	2422.8	2424.1	2425.5	2433.6	2429.6	2430.9	2424.1
7.5°	2462.2	2505.8	2524.8	2548.0	2553.4	2560.2	2573.8	2575.2	2573.8	2564.3
10°	2554.8	2591.5	2620.1	2641.9	2650.1	2655.5	2671.8	2675.9	2673.2	2666.4
12.5°	2610.6	2658.2	2686.8	2718.1	2726.3	2734.4	2748.1	2754.9	2746.7	2742.6
15°	2658.2	2708.6	2731.7	2765.8	2767.1	2782.1	2805.2	2807.9	2803.9	2801.1
17.5°	2670.5	2722.2	2756.2	2786.2	2797.1	2806.6	2820.2	2831.1	2832.4	2821.6
20°	2667.8	2716.8	2757.6	2788.9	2801.1	2807.9	2825.6	2833.8	2829.7	2824.3
22.5°	2646.0	2695.0	2735.8	2763.0	2773.9	2784.8	2801.1	2807.9	2807.9	2797.1
25°	2601.1	2650.1	2685.4	2714.0	2723.6	2734.4	2750.8	2754.9	2752.1	2745.3
27.5°	2537.1	2580.6	2616.0	2640.5	2650.1	2659.6	2677.3	2681.4	2675.9	2669.1
30°	2443.2	2488.1	2523.5	2545.3	2553.4	2560.2	2571.1	2580.6	2572.5	2565.7
32.5°	2341.1	2381.9	2406.4	2426.8	2432.3	2437.7	2448.6	2452.7	2444.5	2445.9
35°	2221.3	2256.7	2285.3	2298.9	2301.6	2300.3	2305.7	2307.1	2308.4	2290.7
37.5°	2090.6	2122.0	2135.6	2154.6	2150.5	2157.3	2162.8	2157.3	2143.7	2136.9
40°	1950.5	1970.9	1994.0	2000.8	1996.7	2006.3	2003.5	1994.0	1979.0	1973.6
42.5°	1811.6	1834.8	1842.9	1848.4	1844.3	1845.7	1840.2	1837.5	1822.5	1810.3
45°	1679.6	1695.9	1700.0	1698.7	1698.7	1691.8	1685.0	1674.2	1660.5	1653.7
47.5°	1550.3	1561.2	1562.5	1555.7	1550.3	1542.1	1543.5	1524.4	1508.1	1499.9
50°	1430.5	1434.6	1430.5	1418.3	1415.5	1406.0	1400.6	1385.6	1370.6	1366.5
52.5°	1323.0	1321.6	1313.5	1299.9	1294.4	1284.9	1275.4	1261.7	1246.8	1246.8
55°	1218.2	1214.1	1203.2	1188.2	1180.1	1176.0	1163.7	1148.8	1137.9	1131.1
57.5°	1127.0	1118.8	1105.2	1091.6	1080.7	1069.8	1061.7	1050.8	1037.2	1034.4
60°	1045.3	1029.0	1016.7	1001.8	993.6	984.1	973.2	965.0	954.1	943.2
62.5°	969.1	955.5	939.2	924.2	916.0	907.9	897.0	884.7	877.9	875.2
65°	902.4	888.8	869.7	854.8	848.0	839.8	831.6	818.0	813.9	807.1
67.5°	842.5	824.8	807.1	793.5	786.7	784.0	775.8	767.7	758.1	752.7
70°	786.7	769.0	752.7	743.2	735.0	732.3	725.5	714.6	707.8	703.7
72.5°	733.6	718.7	705.0	691.4	686.0	684.6	679.2	671.0	664.2	660.1
75°	688.7	673.7	660.1	653.3	647.9	643.8	641.1	632.9	628.8	622.0
77.5°	649.2	631.6	619.3	612.5	608.4	605.7	603.0	598.9	593.4	589.4
80°	607.1	593.4	583.9	577.1	574.4	571.7	568.9	566.2	562.1	558.1
82.5°	571.7	559.4	551.2	545.8	545.8	543.1	541.7	539.0	534.9	529.5
85°	537.6	526.7	519.9	517.2	515.9	514.5	513.1	510.4	506.3	502.2
87.5°	509.1	500.9	494.1	492.7	492.7	491.4	490.0	488.6	484.6	480.5
90°	490.0	481.8	477.7	476.4	475.0	475.0	475.0	472.3	468.2	464.1
92.5°	487.3	479.1	475.0	472.3	472.3	472.3	472.3	469.6	465.5	460.1
95°	491.4	483.2	479.1	476.4	475.0	475.0	473.7	470.9	466.9	461.4
97.5°	500.9	492.7	487.3	483.2	481.8	481.8	480.5	477.7	473.7	469.6
100°	506.3	498.2	492.7	488.6	487.3	485.9	484.6	481.8	477.7	472.3
102.5°	510.4	502.2	495.4	492.7	491.4	490.0	487.3	484.6	480.5	475.0
105°	513.1	506.3	500.9	495.4	494.1	492.7	490.0	487.3	481.8	477.7
107.5°	517.2	510.4	503.6	499.5	496.8	495.4	492.7	490.0	484.6	479.1
110°	518.6	513.1	506.3	502.2	499.5	498.2	494.1	490.0	484.6	480.5



TEST NUMBER: P232495

CATALOG NUMBER: 8SKB1-LD5-10-W-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	519.9	515.9	509.1	503.6	502.2	499.5	495.4	491.4	485.9	480.5
115°	519.9	515.9	510.4	505.0	503.6	500.9	496.8	491.4	485.9	480.5
117.5°	518.6	515.9	511.8	506.3	503.6	500.9	496.8	491.4	484.6	480.5
120°	514.5	514.5	510.4	506.3	503.6	500.9	495.4	490.0	484.6	479.1
122.5°	507.7	510.4	507.7	503.6	502.2	499.5	495.4	488.6	481.8	477.7
125°	498.2	505.0	503.6	500.9	499.5	496.8	492.7	487.3	480.5	475.0
127.5°	485.9	495.4	498.2	496.8	495.4	494.1	488.6	483.2	477.7	470.9
130°	470.9	483.2	488.6	488.6	488.6	487.3	484.6	479.1	472.3	466.9
132.5°	451.9	466.9	475.0	479.1	479.1	479.1	476.4	472.3	466.9	460.1
135°	430.1	449.2	460.1	465.5	466.9	466.9	466.9	464.1	458.7	453.2
137.5°	404.2	426.0	441.0	449.2	451.9	453.2	454.6	451.9	446.4	441.0
140°	366.1	397.4	416.5	427.4	430.1	434.2	436.9	434.2	430.1	426.0
142.5°	328.0	360.7	387.9	402.9	405.6	409.7	413.8	413.8	409.7	405.6
145°	287.2	319.9	348.4	372.9	377.0	381.1	386.6	389.3	385.2	381.1
147.5°	239.6	273.6	303.5	330.7	343.0	348.4	353.9	356.6	355.2	351.2
150°	189.2	225.9	254.5	281.7	294.0	310.3	317.1	318.5	317.1	313.1
152.5°	114.3	167.4	200.1	227.3	238.2	253.2	272.2	276.3	273.6	270.9
155°	64.0	87.1	122.5	163.3	175.6	189.2	212.3	221.9	220.5	220.5
157.5°	19.1	47.6	65.3	80.3	85.7	93.9	121.1	144.3	151.1	152.4
160°	1.4	1.4	16.3	32.7	40.8	49.0	62.6	70.8	72.1	73.5
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)