

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: P#

Luminaire Tested: **8SKB1-LD5-8-W-RS-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-8-W-RS-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

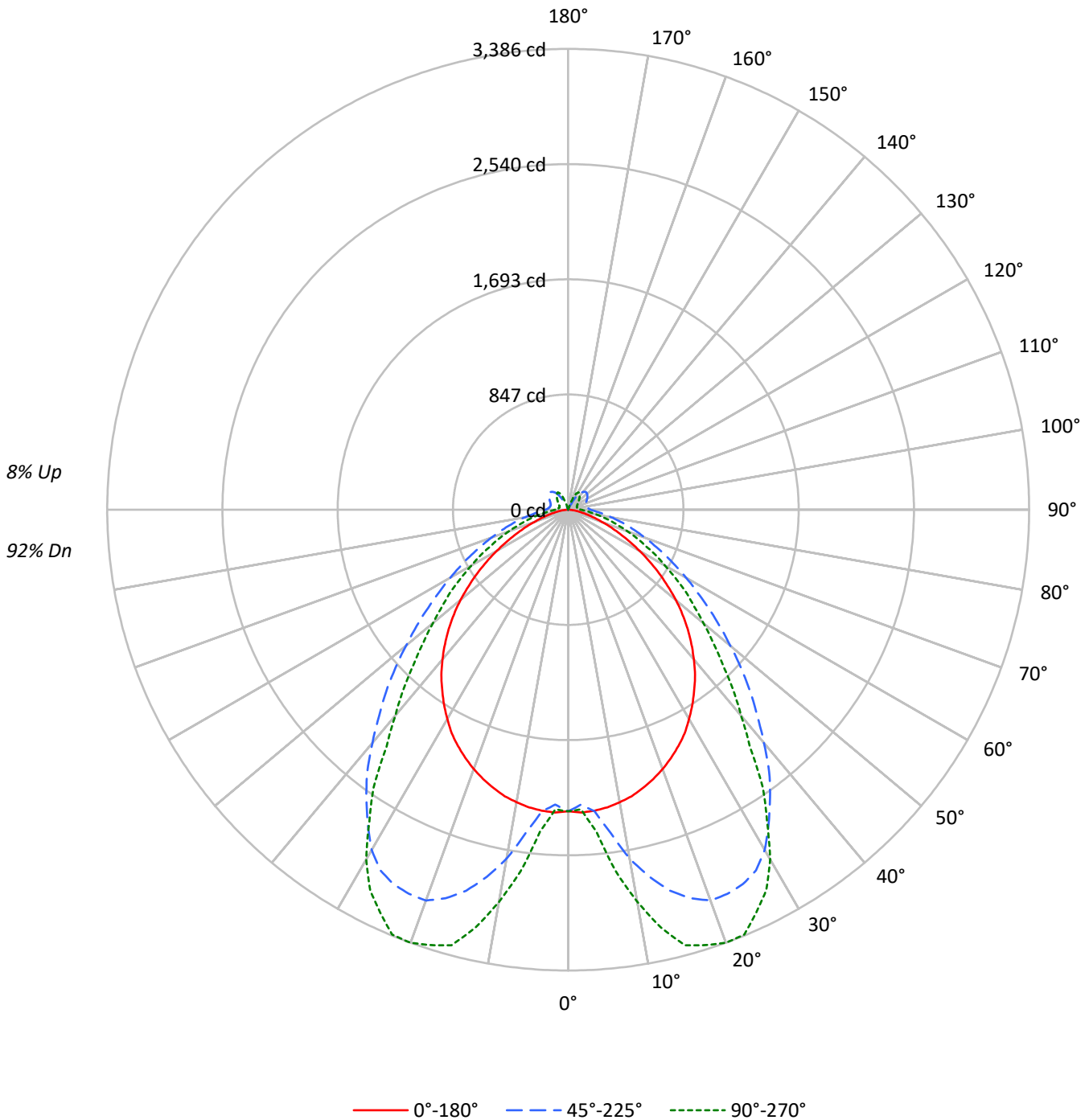
Lumens per Lamp: N/A  
Luminaire Lumens: 8047.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 59.5  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	107	103	98	95	104	99	96	92	94	91	88	88	86	84	84	82	80	77
2	98	90	84	78	95	88	82	77	83	78	74	78	74	71	74	71	68	65
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	66	62	58	56
4	83	71	63	56	80	69	62	56	66	59	54	63	57	52	60	55	51	48
5	76	64	55	49	74	62	54	48	59	52	47	56	51	46	54	49	45	42
6	70	58	49	43	68	56	48	42	54	47	41	51	45	40	49	44	40	37
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11928	11928	11928
5°	11953	11182	11637
10°	11852	12371	13258
15°	11684	13149	14063
20°	11465	13362	13612
25°	11183	12908	12562
30°	10803	12032	11019
35°	10341	10643	9021
40°	9789	9174	7015
45°	9115	7782	5628
50°	8286	6462	4542
55°	7280	5318	3718
60°	6129	4356	2932
65°	4930	3533	2273
70°	3793	2824	1732
75°	2824	2230	1254
80°	1983	1718	889
85°	1186	1296	609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.9	2.8
10°-20°	789.5	9.8
20°-30°	1299.8	16.2
30°-40°	1460.3	18.1
40°-50°	1299.5	16.1
50°-60°	1005.0	12.5
60°-70°	682.4	8.5
70°-80°	407.3	5.1
80°-90°	218.4	2.7
90°-100°	143.8	1.8
100°-110°	121.9	1.5
110°-120°	112.8	1.4
120°-130°	105.1	1.3
130°-140°	89.1	1.1
140°-150°	60.9	0.8
150°-160°	23.5	0.3
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	2316.2	28.8
0°-40°	3776.5	46.9
0°-60°	6081.0	75.6
0°-90°	7389.2	91.8
90°-120°	378.5	4.7
90°-150°	633.6	7.9
90°-180°	658.0	8.2
0°-180°	8047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2220	2189	2224	2342	2374	211
15°	2117	2378	2898	3260	3313	597
25°	1915	2460	3036	3274	3266	881
35°	1614	2215	2585	2561	2495	1008
45°	1241	1712	1892	1730	1602	955
55°	816	1166	1255	1139	1056	729
65°	417	725	784	706	625	421
75°	154	437	448	386	323	169
85°	27	275	225	176	141	33
90°	2	234	164	120	92	2
95°	1	226	144	101	77	1
105°	1	205	133	86	66	1
115°	1	189	148	94	73	1
125°	1	155	172	114	89	1
135°	1	60	184	147	115	1
145°	1	5	142	166	144	1
155°	1	3	32	110	122	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-8-W-RS-UNV-L850-CD1-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3
2.5°	2227.2	2218.5	2203.3	2202.2	2192.4	2188.0	2189.1	2185.9	2182.6	2177.2	2168.5
5°	2219.6	2203.3	2178.3	2178.3	2183.7	2189.1	2202.2	2214.1	2217.4	2225.0	2223.9
7.5°	2205.4	2180.4	2156.5	2176.1	2195.7	2203.3	2218.5	2240.2	2273.9	2335.9	2396.7
10°	2182.6	2148.9	2141.3	2172.8	2198.9	2221.7	2256.5	2357.6	2451.1	2543.5	2603.3
12.5°	2156.5	2115.2	2126.1	2166.3	2227.2	2270.7	2359.8	2493.5	2567.4	2675.0	2763.0
15°	2117.4	2078.3	2097.8	2157.6	2284.8	2378.3	2428.3	2591.3	2709.8	2798.9	2897.8
17.5°	2075.0	2040.2	2067.4	2172.8	2345.7	2435.9	2516.3	2654.3	2768.5	2900.0	2993.5
20°	2028.3	1997.8	2032.6	2192.4	2375.0	2467.4	2556.5	2688.0	2839.1	2975.0	3055.4
22.5°	1973.9	1946.7	2000.0	2201.1	2385.9	2478.3	2565.2	2718.5	2875.0	2987.0	3055.4
25°	1915.2	1888.0	1960.9	2183.7	2375.0	2459.8	2553.3	2734.8	2863.0	2951.1	3035.9
27.5°	1852.2	1821.7	1931.5	2147.8	2331.5	2427.2	2532.6	2703.3	2804.3	2902.2	2988.0
30°	1775.0	1747.8	1880.4	2095.7	2270.7	2383.7	2473.9	2627.2	2723.9	2820.7	2887.0
32.5°	1697.8	1671.7	1818.5	2021.7	2201.1	2307.6	2394.6	2514.1	2623.9	2698.9	2740.2
35°	1614.1	1584.8	1746.7	1931.5	2122.8	2215.2	2288.0	2396.7	2489.1	2544.6	2584.8
37.5°	1530.4	1498.9	1655.4	1837.0	2019.6	2104.3	2165.2	2275.0	2345.7	2391.3	2425.0
40°	1435.9	1403.3	1560.9	1730.4	1912.0	1971.7	2034.8	2132.6	2184.8	2221.7	2238.0
42.5°	1340.2	1307.6	1458.7	1618.5	1780.4	1839.1	1904.3	1981.5	2032.6	2054.3	2054.3
45°	1241.3	1209.8	1353.3	1507.6	1644.6	1712.0	1769.6	1831.5	1873.9	1891.3	1892.4
47.5°	1138.0	1112.0	1248.9	1389.1	1517.4	1576.1	1620.7	1680.4	1717.4	1721.7	1720.7
50°	1032.6	1009.8	1132.6	1270.7	1384.8	1437.0	1476.1	1531.5	1560.9	1559.8	1554.3
52.5°	921.7	907.6	1021.7	1147.8	1251.1	1297.8	1332.6	1381.5	1405.4	1405.4	1401.1
55°	816.3	807.6	906.5	1028.3	1125.0	1166.3	1198.9	1242.4	1262.0	1262.0	1255.4
57.5°	709.8	708.7	801.1	909.8	1002.2	1039.1	1073.9	1112.0	1129.3	1129.3	1118.5
60°	605.4	610.9	702.2	802.2	887.0	922.8	953.3	990.2	1001.1	1003.3	1001.1
62.5°	508.7	522.8	609.8	701.1	785.9	816.3	843.5	879.3	888.0	891.3	885.9
65°	417.4	439.1	527.2	614.1	693.5	725.0	748.9	773.9	781.5	784.8	783.7
67.5°	342.4	365.2	453.3	539.1	612.0	637.0	660.9	682.6	683.7	689.1	684.8
70°	265.2	300.0	388.0	469.6	538.0	560.9	580.4	595.7	598.9	600.0	598.9
72.5°	204.3	245.7	329.3	409.8	471.7	493.5	508.7	520.7	520.7	521.7	518.5
75°	154.3	204.3	285.9	359.8	415.2	437.0	448.9	456.5	452.2	451.1	447.8
77.5°	112.0	169.6	246.7	316.3	368.5	384.8	395.7	396.7	390.2	389.1	382.6
80°	77.2	138.0	213.0	278.3	326.1	342.4	347.8	343.5	338.0	331.5	322.8
82.5°	51.1	112.0	184.8	246.7	291.3	304.3	308.7	302.2	294.6	283.7	269.6
85°	27.2	90.2	160.9	220.7	263.0	275.0	277.2	265.2	253.3	239.1	225.0
87.5°	12.0	73.9	143.5	203.3	240.2	248.9	250.0	237.0	221.7	205.4	188.0
90°	2.2	63.0	132.6	190.2	226.1	233.7	233.7	216.3	201.1	183.7	164.1
92.5°	1.1	59.8	129.3	185.9	221.7	229.3	228.3	209.8	191.3	171.7	152.2
95°	1.1	52.2	121.7	181.5	218.5	226.1	225.0	205.4	185.9	165.2	143.5
97.5°	1.1	43.5	114.1	173.9	213.0	220.7	220.7	202.2	182.6	160.9	138.0
100°	0.0	33.7	105.4	166.3	205.4	215.2	216.3	198.9	178.3	156.5	134.8
102.5°	0.0	22.8	97.8	159.8	200.0	209.8	212.0	197.8	176.1	154.3	132.6
105°	1.1	14.1	88.0	152.2	194.6	205.4	208.7	196.7	175.0	154.3	132.6
107.5°	1.1	9.8	78.3	144.6	190.2	202.2	206.5	196.7	176.1	155.4	134.8
110°	1.1	8.7	66.3	137.0	184.8	197.8	204.3	197.8	178.3	158.7	138.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.1	6.5	50.0	127.2	178.3	193.5	202.2	198.9	181.5	162.0	142.4
115°	1.1	5.4	33.7	117.4	171.7	189.1	200.0	200.0	184.8	166.3	147.8
117.5°	1.1	5.4	22.8	104.3	164.1	183.7	195.7	201.1	189.1	170.7	154.3
120°	1.1	4.3	10.9	89.1	154.3	176.1	191.3	201.1	192.4	176.1	159.8
122.5°	1.1	4.3	8.7	68.5	143.5	167.4	184.8	200.0	195.7	180.4	166.3
125°	1.1	3.3	7.6	45.7	129.3	155.4	176.1	196.7	196.7	184.8	171.7
127.5°	1.1	3.3	6.5	32.6	110.9	142.4	164.1	191.3	196.7	188.0	177.2
130°	1.1	3.3	5.4	9.8	84.8	123.9	150.0	182.6	194.6	190.2	180.4
132.5°	1.1	2.2	5.4	7.6	54.3	96.7	130.4	168.5	188.0	190.2	183.7
135°	1.1	2.2	4.3	6.5	39.1	59.8	104.3	151.1	176.1	183.7	183.7
137.5°	1.1	2.2	4.3	5.4	17.4	44.6	65.2	130.4	160.9	175.0	178.3
140°	1.1	2.2	3.3	4.3	6.5	23.9	46.7	103.3	142.4	162.0	170.7
142.5°	1.1	2.2	3.3	4.3	5.4	5.4	28.3	59.8	119.6	144.6	158.7
145°	1.1	2.2	2.2	3.3	4.3	5.4	5.4	45.7	85.9	123.9	142.4
147.5°	1.1	1.1	2.2	3.3	4.3	4.3	4.3	20.7	51.1	94.6	121.7
150°	1.1	1.1	2.2	2.2	3.3	3.3	4.3	4.3	33.7	53.3	90.2
152.5°	1.1	1.1	2.2	2.2	3.3	3.3	3.3	4.3	4.3	35.9	50.0
155°	1.1	1.1	2.2	2.2	2.2	3.3	3.3	3.3	3.3	4.3	31.5
157.5°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.3	4.3
160°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	4.3
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°	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3	2216.3
2.5°	2179.3	2195.7	2195.7	2209.8	2217.4	2215.2	2217.4	2221.7	2208.7	2204.3
5°	2247.8	2280.4	2296.7	2333.7	2342.4	2358.7	2364.1	2382.6	2387.0	2373.9
7.5°	2463.0	2530.4	2573.9	2618.5	2638.0	2647.8	2665.2	2677.2	2695.7	2681.5
10°	2665.2	2746.7	2808.7	2857.6	2869.6	2879.3	2900.0	2929.3	2927.2	2925.0
12.5°	2840.2	2912.0	2988.0	3058.7	3094.6	3102.2	3132.6	3168.5	3175.0	3145.6
15°	2984.8	3084.8	3170.6	3245.6	3259.8	3279.3	3302.2	3314.1	3308.7	3313.0
17.5°	3105.4	3190.2	3251.1	3291.3	3300.0	3315.2	3335.9	3351.1	3353.3	3354.3
20°	3153.3	3209.8	3268.5	3323.9	3341.3	3356.5	3381.5	3394.6	3392.4	3385.9
22.5°	3144.6	3227.2	3281.5	3327.2	3344.6	3358.7	3380.4	3389.1	3385.9	3379.3
25°	3131.5	3202.2	3250.0	3273.9	3273.9	3284.8	3279.3	3272.8	3265.2	3266.3
27.5°	3069.6	3110.9	3143.5	3170.6	3173.9	3175.0	3171.7	3165.2	3160.9	3151.1
30°	2943.5	2993.5	3008.7	3006.5	3002.2	3001.1	2988.0	2978.3	2966.3	2967.4
32.5°	2795.7	2806.5	2813.0	2794.6	2783.7	2781.5	2769.6	2753.3	2737.0	2719.6
35°	2605.4	2597.8	2582.6	2569.6	2560.9	2547.8	2530.4	2514.1	2493.5	2494.6
37.5°	2421.7	2397.8	2376.1	2340.2	2333.7	2303.3	2269.6	2243.5	2209.8	2191.3
40°	2230.4	2206.5	2179.3	2140.2	2122.8	2094.6	2057.6	2014.1	1987.0	1976.1
42.5°	2047.8	2018.5	1987.0	1940.2	1918.5	1895.7	1856.5	1814.1	1794.6	1791.3
45°	1869.6	1835.9	1805.4	1753.3	1730.4	1703.3	1663.0	1637.0	1608.7	1602.2
47.5°	1697.8	1668.5	1621.7	1581.5	1559.8	1537.0	1495.7	1471.7	1451.1	1443.5
50°	1531.5	1503.3	1467.4	1422.8	1402.2	1380.4	1351.1	1328.3	1304.3	1296.7
52.5°	1382.6	1354.3	1317.4	1282.6	1262.0	1248.9	1221.7	1195.7	1177.2	1165.2
55°	1239.1	1213.0	1179.3	1146.7	1139.1	1121.7	1090.2	1067.4	1055.4	1056.5
57.5°	1107.6	1084.8	1058.7	1027.2	1015.2	998.9	978.3	951.1	937.0	932.6
60°	988.0	966.3	944.6	920.7	905.4	893.5	865.2	843.5	825.0	822.8
62.5°	873.9	857.6	839.1	815.2	802.2	789.1	764.1	743.5	729.3	725.0
65°	775.0	760.9	739.1	719.6	706.5	693.5	669.6	648.9	637.0	625.0
67.5°	677.2	665.2	648.9	628.3	616.3	603.3	582.6	559.8	545.7	542.4
70°	590.2	577.2	564.1	542.4	531.5	523.9	501.1	478.3	467.4	463.0
72.5°	515.2	501.1	482.6	467.4	460.9	446.7	425.0	409.8	395.7	387.0
75°	437.0	428.3	415.2	397.8	385.9	376.1	358.7	343.5	331.5	322.8
77.5°	372.8	362.0	351.1	333.7	325.0	316.3	297.8	284.8	272.8	268.5
80°	313.0	303.3	288.0	275.0	267.4	259.8	245.7	231.5	222.8	218.5
82.5°	258.7	250.0	238.0	227.2	218.5	213.0	200.0	188.0	180.4	173.9
85°	214.1	203.3	192.4	182.6	176.1	171.7	162.0	153.3	143.5	141.3
87.5°	176.1	167.4	157.6	147.8	143.5	138.0	129.3	122.8	115.2	112.0
90°	151.1	140.2	131.5	123.9	119.6	116.3	109.8	101.1	95.7	92.4
92.5°	137.0	127.2	119.6	112.0	108.7	105.4	97.8	91.3	85.9	81.5
95°	128.3	118.5	110.9	104.3	101.1	98.9	92.4	85.9	80.4	77.2
97.5°	121.7	110.9	103.3	97.8	94.6	92.4	87.0	81.5	76.1	72.8
100°	116.3	105.4	97.8	92.4	90.2	88.0	82.6	77.2	72.8	69.6
102.5°	114.1	102.2	94.6	90.2	88.0	85.9	80.4	76.1	70.7	67.4
105°	114.1	101.1	93.5	88.0	85.9	83.7	79.3	75.0	69.6	66.3
107.5°	116.3	102.2	93.5	89.1	87.0	84.8	79.3	75.0	69.6	66.3
110°	119.6	105.4	95.7	90.2	88.0	85.9	80.4	76.1	70.7	67.4





TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-8-W-RS-UNV-L850-CD1-RS-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	123.9	108.7	98.9	92.4	90.2	88.0	82.6	78.3	72.8	69.6
115°	129.3	113.0	103.3	95.7	93.5	91.3	85.9	80.4	76.1	72.8
117.5°	135.9	119.6	107.6	100.0	97.8	94.6	89.1	83.7	79.3	76.1
120°	142.4	127.2	114.1	105.4	102.2	98.9	93.5	88.0	82.6	79.3
122.5°	150.0	133.7	120.7	112.0	108.7	105.4	98.9	93.5	88.0	83.7
125°	157.6	142.4	128.3	118.5	114.1	110.9	104.3	97.8	93.5	89.1
127.5°	164.1	150.0	135.9	126.1	121.7	117.4	110.9	104.3	98.9	95.7
130°	169.6	157.6	144.6	133.7	129.3	126.1	117.4	110.9	105.4	102.2
132.5°	175.0	164.1	153.3	142.4	138.0	133.7	126.1	118.5	113.0	108.7
135°	178.3	169.6	160.9	151.1	146.7	141.3	133.7	126.1	119.6	115.2
137.5°	178.3	173.9	166.3	158.7	154.3	150.0	141.3	133.7	127.2	123.9
140°	172.8	173.9	170.7	165.2	160.9	157.6	150.0	141.3	134.8	131.5
142.5°	165.2	168.5	170.7	167.4	165.2	163.0	156.5	148.9	142.4	138.0
145°	153.3	159.8	164.1	167.4	166.3	165.2	159.8	154.3	147.8	143.5
147.5°	138.0	147.8	153.3	160.9	163.0	163.0	160.9	156.5	151.1	147.8
150°	116.3	130.4	140.2	147.8	151.1	155.4	155.4	152.2	148.9	145.7
152.5°	82.6	105.4	119.6	130.4	134.8	139.1	144.6	142.4	138.0	135.9
155°	46.7	57.6	87.0	104.3	109.8	115.2	123.9	126.1	125.0	121.7
157.5°	23.9	39.1	48.9	56.5	59.8	68.5	85.9	97.8	96.7	98.9
160°	5.4	6.5	18.5	34.8	39.1	41.3	45.7	48.9	48.9	46.7
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)