

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-L840-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-L840-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

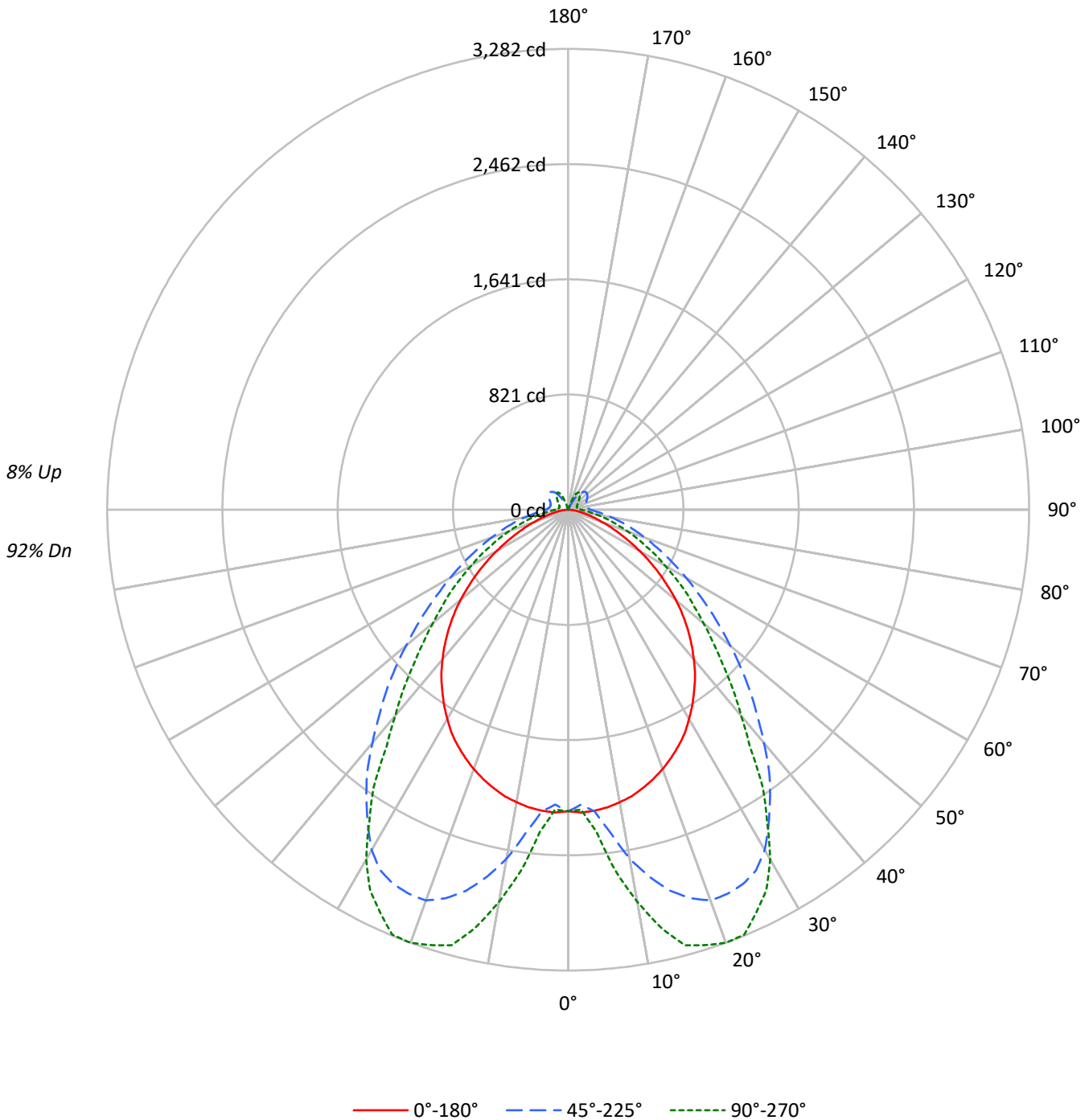
Lumens per Lamp: N/A
Luminaire Lumens: 7800.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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	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°	11562	11562	11562
5°	11586	10839	11280
10°	11488	11991	12851
15°	11325	12745	13631
20°	11113	12952	13194
25°	10840	12511	12176
30°	10472	11662	10681
35°	10024	10316	8744
40°	9488	8893	6800
45°	8836	7544	5455
50°	8031	6264	4402
55°	7057	5155	3604
60°	5942	4223	2842
65°	4779	3425	2203
70°	3677	2737	1679
75°	2738	2162	1215
80°	1921	1665	862
85°	1146	1256	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	2.8
10°-20°	765.3	9.8
20°-30°	1259.9	16.2
30°-40°	1415.5	18.1
40°-50°	1259.6	16.1
50°-60°	974.1	12.5
60°-70°	661.5	8.5
70°-80°	394.8	5.1
80°-90°	211.7	2.7
90°-100°	139.3	1.8
100°-110°	118.2	1.5
110°-120°	109.4	1.4
120°-130°	101.9	1.3
130°-140°	86.4	1.1
140°-150°	59.0	0.8
150°-160°	22.8	0.3
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	2245.1	28.8
0°-40°	3660.6	46.9
0°-60°	5894.3	75.6
0°-90°	7162.4	91.8
90°-120°	366.9	4.7
90°-150°	614.1	7.9
90°-180°	638.0	8.2
0°-180°	7800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2151	2122	2156	2270	2301	204
15°	2052	2305	2809	3160	3211	579
25°	1856	2384	2943	3173	3166	854
35°	1565	2147	2505	2482	2418	978
45°	1203	1659	1834	1677	1553	926
55°	791	1130	1217	1104	1024	707
65°	405	703	760	685	606	408
75°	150	424	434	374	313	164
85°	26	267	218	171	137	32
90°	2	226	159	116	90	2
95°	1	219	139	98	75	1
105°	1	199	128	83	64	1
115°	1	183	143	91	71	1
125°	1	151	166	111	86	1
135°	1	58	178	142	112	1
145°	1	5	138	161	139	1
155°	1	3	31	106	118	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-L840-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3
2.5°	2158.8	2150.4	2135.6	2134.6	2125.1	2120.9	2121.9	2118.8	2115.6	2110.3	2101.9
5°	2151.4	2135.6	2111.4	2111.4	2116.7	2121.9	2134.6	2146.2	2149.3	2156.7	2155.6
7.5°	2137.7	2113.5	2090.3	2109.3	2128.3	2135.6	2150.4	2171.5	2204.1	2264.2	2323.2
10°	2115.6	2083.0	2075.6	2106.1	2131.4	2153.5	2187.3	2285.2	2375.8	2465.4	2523.4
12.5°	2090.3	2050.3	2060.8	2099.8	2158.8	2201.0	2287.3	2416.9	2488.6	2592.9	2678.2
15°	2052.4	2014.5	2033.4	2091.4	2214.7	2305.3	2353.7	2511.8	2626.6	2713.0	2808.9
17.5°	2011.3	1977.6	2003.9	2106.1	2273.7	2361.1	2439.1	2572.9	2683.5	2811.0	2901.6
20°	1966.0	1936.5	1970.2	2125.1	2302.1	2391.7	2478.0	2605.5	2752.0	2883.7	2961.6
22.5°	1913.3	1887.0	1938.6	2133.5	2312.6	2402.2	2486.5	2635.0	2786.8	2895.3	2961.6
25°	1856.4	1830.1	1900.7	2116.7	2302.1	2384.3	2474.9	2650.8	2775.2	2860.5	2942.7
27.5°	1795.3	1765.8	1872.2	2081.9	2260.0	2352.7	2454.9	2620.3	2718.3	2813.1	2896.3
30°	1720.5	1694.2	1822.7	2031.3	2201.0	2310.5	2398.0	2546.5	2640.3	2734.1	2798.3
32.5°	1645.7	1620.4	1762.7	1959.7	2133.5	2236.8	2321.1	2437.0	2543.4	2616.1	2656.1
35°	1564.6	1536.1	1693.1	1872.2	2057.7	2147.2	2217.8	2323.2	2412.7	2466.5	2505.4
37.5°	1483.5	1452.9	1604.6	1780.6	1957.6	2039.8	2098.8	2205.2	2273.7	2317.9	2350.6
40°	1391.8	1360.2	1513.0	1677.3	1853.3	1911.2	1972.3	2067.1	2117.7	2153.5	2169.3
42.5°	1299.1	1267.5	1413.9	1568.8	1725.8	1782.7	1845.9	1920.7	1970.2	1991.3	1991.3
45°	1203.2	1172.6	1311.7	1461.3	1594.1	1659.4	1715.2	1775.3	1816.4	1833.3	1834.3
47.5°	1103.1	1077.8	1210.6	1346.5	1470.8	1527.7	1570.9	1628.9	1664.7	1668.9	1667.8
50°	1000.9	978.8	1097.8	1231.6	1342.3	1392.8	1430.8	1484.5	1513.0	1511.9	1506.6
52.5°	893.4	879.7	990.4	1112.6	1212.7	1258.0	1291.7	1339.1	1362.3	1362.3	1358.1
55°	791.2	782.8	878.7	996.7	1090.5	1130.5	1162.1	1204.3	1223.2	1223.2	1216.9
57.5°	688.0	686.9	776.5	881.9	971.4	1007.2	1040.9	1077.8	1094.7	1094.7	1084.1
60°	586.9	592.1	680.6	777.6	859.7	894.5	924.0	959.8	970.4	972.5	970.4
62.5°	493.1	506.8	591.1	679.6	761.7	791.2	817.6	852.4	860.8	863.9	858.7
65°	404.6	425.7	511.0	595.3	672.2	702.7	725.9	750.2	757.5	760.7	759.6
67.5°	331.9	354.0	439.3	522.6	593.2	617.4	640.6	661.7	662.7	668.0	663.8
70°	257.1	290.8	376.1	455.2	521.5	543.7	562.6	577.4	580.5	581.6	580.5
72.5°	198.1	238.1	319.2	397.2	457.3	478.3	493.1	504.7	504.7	505.7	502.6
75°	149.6	198.1	277.1	348.7	402.5	423.5	435.1	442.5	438.3	437.2	434.1
77.5°	108.5	164.4	239.2	306.6	357.2	373.0	383.5	384.6	378.2	377.2	370.9
80°	74.8	133.8	206.5	269.7	316.1	331.9	337.1	332.9	327.7	321.3	312.9
82.5°	49.5	108.5	179.1	239.2	282.4	295.0	299.2	292.9	285.5	275.0	261.3
85°	26.3	87.4	155.9	213.9	255.0	266.6	268.7	257.1	245.5	231.8	218.1
87.5°	11.6	71.6	139.1	197.0	232.8	241.3	242.3	229.7	214.9	199.1	182.3
90°	2.1	61.1	128.5	184.4	219.1	226.5	226.5	209.7	194.9	178.1	159.1
92.5°	1.1	57.9	125.4	180.2	214.9	222.3	221.3	203.3	185.4	166.5	147.5
95°	1.1	50.6	118.0	175.9	211.8	219.1	218.1	199.1	180.2	160.1	139.1
97.5°	1.1	42.1	110.6	168.6	206.5	213.9	213.9	196.0	177.0	155.9	133.8
100°	0.0	32.7	102.2	161.2	199.1	208.6	209.7	192.8	172.8	151.7	130.6
102.5°	0.0	22.1	94.8	154.9	193.9	203.3	205.5	191.8	170.7	149.6	128.5
105°	1.1	13.7	85.3	147.5	188.6	199.1	202.3	190.7	169.6	149.6	128.5
107.5°	1.1	9.5	75.9	140.1	184.4	196.0	200.2	190.7	170.7	150.7	130.6
110°	1.1	8.4	64.3	132.8	179.1	191.8	198.1	191.8	172.8	153.8	133.8



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.1	6.3	48.5	123.3	172.8	187.5	196.0	192.8	175.9	157.0	138.0
115°	1.1	5.3	32.7	113.8	166.5	183.3	193.9	193.9	179.1	161.2	143.3
117.5°	1.1	5.3	22.1	101.1	159.1	178.1	189.6	194.9	183.3	165.4	149.6
120°	1.1	4.2	10.5	86.4	149.6	170.7	185.4	194.9	186.5	170.7	154.9
122.5°	1.1	4.2	8.4	66.4	139.1	162.3	179.1	193.9	189.6	174.9	161.2
125°	1.1	3.2	7.4	44.3	125.4	150.7	170.7	190.7	190.7	179.1	166.5
127.5°	1.1	3.2	6.3	31.6	107.5	138.0	159.1	185.4	190.7	182.3	171.7
130°	1.1	3.2	5.3	9.5	82.2	120.1	145.4	177.0	188.6	184.4	174.9
132.5°	1.1	2.1	5.3	7.4	52.7	93.8	126.4	163.3	182.3	184.4	178.1
135°	1.1	2.1	4.2	6.3	37.9	57.9	101.1	146.4	170.7	178.1	178.1
137.5°	1.1	2.1	4.2	5.3	16.9	43.2	63.2	126.4	155.9	169.6	172.8
140°	1.1	2.1	3.2	4.2	6.3	23.2	45.3	100.1	138.0	157.0	165.4
142.5°	1.1	2.1	3.2	4.2	5.3	5.3	27.4	57.9	115.9	140.1	153.8
145°	1.1	2.1	2.1	3.2	4.2	5.3	5.3	44.3	83.2	120.1	138.0
147.5°	1.1	1.1	2.1	3.2	4.2	4.2	4.2	20.0	49.5	91.7	118.0
150°	1.1	1.1	2.1	2.1	3.2	3.2	4.2	4.2	32.7	51.6	87.4
152.5°	1.1	1.1	2.1	2.1	3.2	3.2	3.2	4.2	4.2	34.8	48.5
155°	1.1	1.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.2	30.6
157.5°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	4.2
160°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.2
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: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3	2148.3
2.5°	2112.5	2128.3	2128.3	2142.0	2149.3	2147.2	2149.3	2153.5	2140.9	2136.7
5°	2178.8	2210.4	2226.2	2262.1	2270.5	2286.3	2291.6	2309.5	2313.7	2301.0
7.5°	2387.4	2452.8	2494.9	2538.1	2557.1	2566.6	2583.4	2595.0	2612.9	2599.2
10°	2583.4	2662.4	2722.5	2769.9	2781.5	2791.0	2811.0	2839.4	2837.3	2835.2
12.5°	2753.0	2822.6	2896.3	2964.8	2999.6	3007.0	3036.5	3071.2	3077.5	3049.1
15°	2893.2	2990.1	3073.3	3146.0	3159.7	3178.7	3200.8	3212.4	3207.1	3211.3
17.5°	3010.1	3092.3	3151.3	3190.3	3198.7	3213.5	3233.5	3248.2	3250.3	3251.4
20°	3056.5	3111.3	3168.2	3221.9	3238.7	3253.5	3277.7	3290.4	3288.3	3281.9
22.5°	3048.0	3128.1	3180.8	3225.0	3241.9	3255.6	3276.7	3285.1	3281.9	3275.6
25°	3035.4	3103.9	3150.2	3173.4	3173.4	3184.0	3178.7	3172.4	3165.0	3166.0
27.5°	2975.3	3015.4	3047.0	3073.3	3076.5	3077.5	3074.4	3068.1	3063.8	3054.4
30°	2853.1	2901.6	2916.3	2914.2	2910.0	2909.0	2896.3	2886.8	2875.3	2876.3
32.5°	2709.8	2720.4	2726.7	2708.8	2698.2	2696.1	2684.6	2668.7	2652.9	2636.1
35°	2525.5	2518.1	2503.3	2490.7	2482.3	2469.6	2452.8	2437.0	2416.9	2418.0
37.5°	2347.4	2324.2	2303.2	2268.4	2262.1	2232.6	2199.9	2174.6	2142.0	2124.0
40°	2162.0	2138.8	2112.5	2074.5	2057.7	2030.3	1994.4	1952.3	1926.0	1915.4
42.5°	1985.0	1956.5	1926.0	1880.7	1859.6	1837.5	1799.5	1758.4	1739.5	1736.3
45°	1812.2	1779.5	1750.0	1699.4	1677.3	1651.0	1612.0	1586.7	1559.3	1553.0
47.5°	1645.7	1617.3	1572.0	1533.0	1511.9	1489.8	1449.7	1426.6	1406.5	1399.2
50°	1484.5	1457.1	1422.3	1379.2	1359.1	1338.1	1309.6	1287.5	1264.3	1256.9
52.5°	1340.2	1312.8	1277.0	1243.2	1223.2	1210.6	1184.2	1159.0	1141.0	1129.5
55°	1201.1	1175.8	1143.1	1111.5	1104.2	1087.3	1056.8	1034.6	1023.0	1024.1
57.5°	1073.6	1051.5	1026.2	995.6	984.1	968.3	948.2	921.9	908.2	904.0
60°	957.7	936.6	915.6	892.4	877.6	866.1	838.7	817.6	799.7	797.6
62.5°	847.1	831.3	813.4	790.2	777.6	764.9	740.7	720.7	707.0	702.7
65°	751.2	737.5	716.4	697.5	684.8	672.2	649.0	629.0	617.4	605.8
67.5°	656.4	644.8	629.0	609.0	597.4	584.7	564.7	542.6	528.9	525.7
70°	572.1	559.5	546.8	525.7	515.2	507.8	485.7	463.6	453.0	448.8
72.5°	499.4	485.7	467.8	453.0	446.7	433.0	412.0	397.2	383.5	375.1
75°	423.5	415.1	402.5	385.6	374.0	364.5	347.7	332.9	321.3	312.9
77.5°	361.4	350.8	340.3	323.5	315.0	306.6	288.7	276.0	264.5	260.2
80°	303.4	294.0	279.2	266.6	259.2	251.8	238.1	224.4	216.0	211.8
82.5°	250.8	242.3	230.7	220.2	211.8	206.5	193.9	182.3	174.9	168.6
85°	207.6	197.0	186.5	177.0	170.7	166.5	157.0	148.6	139.1	137.0
87.5°	170.7	162.3	152.8	143.3	139.1	133.8	125.4	119.1	111.7	108.5
90°	146.4	135.9	127.5	120.1	115.9	112.7	106.4	98.0	92.7	89.6
92.5°	132.8	123.3	115.9	108.5	105.4	102.2	94.8	88.5	83.2	79.0
95°	124.3	114.8	107.5	101.1	98.0	95.9	89.6	83.2	78.0	74.8
97.5°	118.0	107.5	100.1	94.8	91.7	89.6	84.3	79.0	73.8	70.6
100°	112.7	102.2	94.8	89.6	87.4	85.3	80.1	74.8	70.6	67.4
102.5°	110.6	99.0	91.7	87.4	85.3	83.2	78.0	73.8	68.5	65.3
105°	110.6	98.0	90.6	85.3	83.2	81.1	76.9	72.7	67.4	64.3
107.5°	112.7	99.0	90.6	86.4	84.3	82.2	76.9	72.7	67.4	64.3
110°	115.9	102.2	92.7	87.4	85.3	83.2	78.0	73.8	68.5	65.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	120.1	105.4	95.9	89.6	87.4	85.3	80.1	75.9	70.6	67.4
115°	125.4	109.6	100.1	92.7	90.6	88.5	83.2	78.0	73.8	70.6
117.5°	131.7	115.9	104.3	96.9	94.8	91.7	86.4	81.1	76.9	73.8
120°	138.0	123.3	110.6	102.2	99.0	95.9	90.6	85.3	80.1	76.9
122.5°	145.4	129.6	116.9	108.5	105.4	102.2	95.9	90.6	85.3	81.1
125°	152.8	138.0	124.3	114.8	110.6	107.5	101.1	94.8	90.6	86.4
127.5°	159.1	145.4	131.7	122.2	118.0	113.8	107.5	101.1	95.9	92.7
130°	164.4	152.8	140.1	129.6	125.4	122.2	113.8	107.5	102.2	99.0
132.5°	169.6	159.1	148.6	138.0	133.8	129.6	122.2	114.8	109.6	105.4
135°	172.8	164.4	155.9	146.4	142.2	137.0	129.6	122.2	115.9	111.7
137.5°	172.8	168.6	161.2	153.8	149.6	145.4	137.0	129.6	123.3	120.1
140°	167.5	168.6	165.4	160.1	155.9	152.8	145.4	137.0	130.6	127.5
142.5°	160.1	163.3	165.4	162.3	160.1	158.0	151.7	144.3	138.0	133.8
145°	148.6	154.9	159.1	162.3	161.2	160.1	154.9	149.6	143.3	139.1
147.5°	133.8	143.3	148.6	155.9	158.0	158.0	155.9	151.7	146.4	143.3
150°	112.7	126.4	135.9	143.3	146.4	150.7	150.7	147.5	144.3	141.2
152.5°	80.1	102.2	115.9	126.4	130.6	134.9	140.1	138.0	133.8	131.7
155°	45.3	55.8	84.3	101.1	106.4	111.7	120.1	122.2	121.2	118.0
157.5°	23.2	37.9	47.4	54.8	57.9	66.4	83.2	94.8	93.8	95.9
160°	5.3	6.3	17.9	33.7	37.9	40.0	44.3	47.4	47.4	45.3
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)