

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-LD5-10-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-LD5-10-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

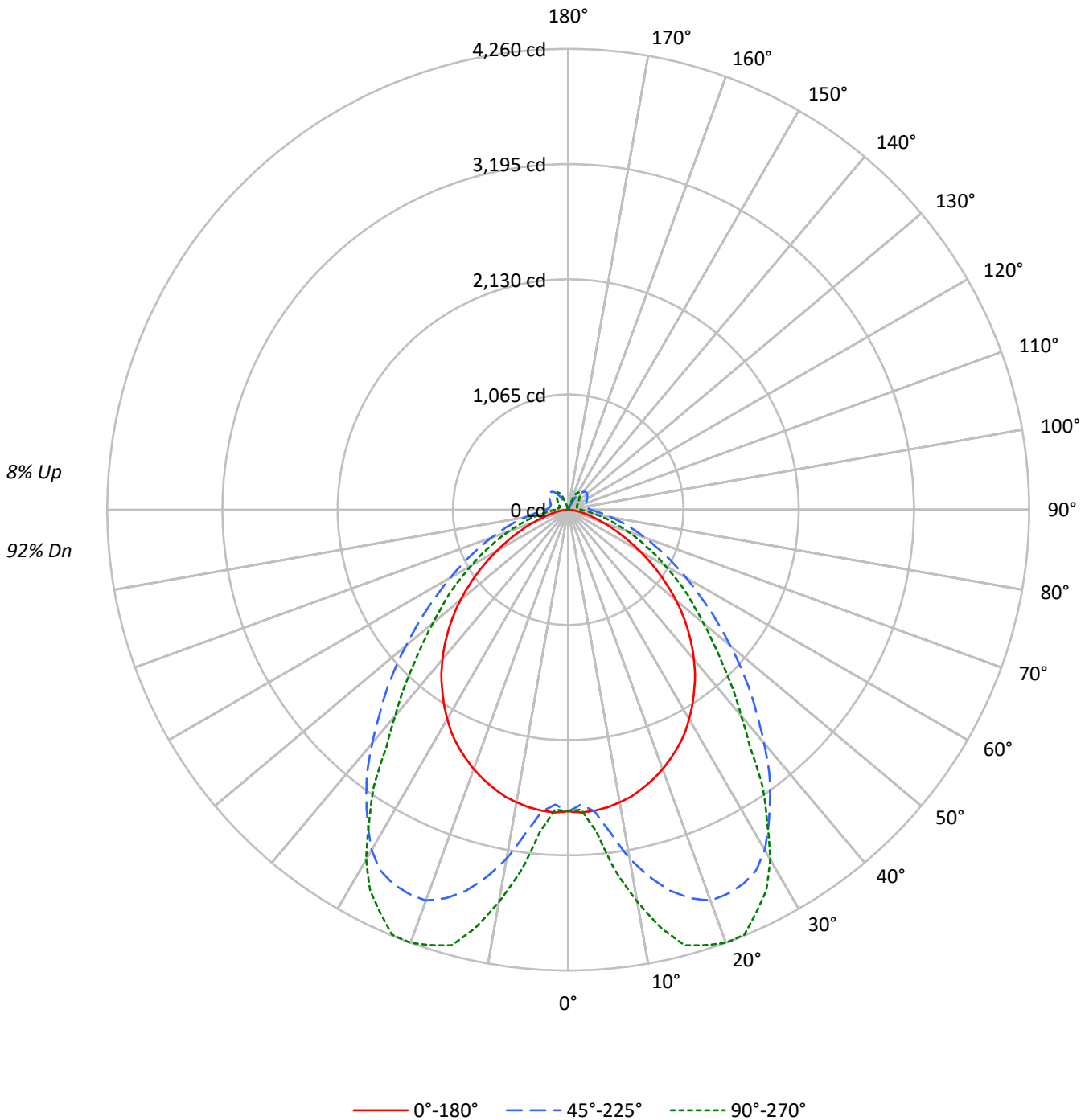
Lumens per Lamp: N/A
Luminaire Lumens: 10125.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 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: P#
CATALOG NUMBER: 8SKB1-LD5-10-W-RS-UNV-L850-CD1-RS-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	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°	15008	15008	15008
5°	15040	14070	14642
10°	14912	15566	16681
15°	14701	16544	17695
20°	14425	16812	17127
25°	14071	16240	15806
30°	13593	15138	13864
35°	13012	13391	11350
40°	12316	11544	8827
45°	11469	9792	7081
50°	10426	8131	5715
55°	9160	6691	4678
60°	7713	5481	3689
65°	6203	4446	2860
70°	4773	3553	2180
75°	3555	2807	1578
80°	2494	2161	1119
85°	1491	1630	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	2.8
10°-20°	993.4	9.8
20°-30°	1635.5	16.2
30°-40°	1837.4	18.1
40°-50°	1635.1	16.1
50°-60°	1264.5	12.5
60°-70°	858.7	8.5
70°-80°	512.4	5.1
80°-90°	274.9	2.7
90°-100°	180.9	1.8
100°-110°	153.4	1.5
110°-120°	141.9	1.4
120°-130°	132.2	1.3
130°-140°	112.1	1.1
140°-150°	76.6	0.8
150°-160°	29.6	0.3
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	2914.4	28.8
0°-40°	4751.8	46.9
0°-60°	7651.3	75.6
0°-90°	9297.3	91.8
90°-120°	476.2	4.7
90°-150°	797.2	7.9
90°-180°	828.0	8.2
0°-180°	10125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2789	2789	2789	2789	2789	
5°	2793	2754	2798	2947	2987	265
15°	2664	2992	3646	4102	4169	751
25°	2410	3095	3820	4119	4110	1109
35°	2031	2787	3252	3222	3139	1269
45°	1562	2154	2381	2177	2016	1201
55°	1027	1468	1580	1433	1329	917
65°	525	912	986	889	786	529
75°	194	550	564	486	406	213
85°	34	346	283	222	178	42
90°	3	294	206	150	116	3
95°	1	284	180	127	97	1
105°	1	258	167	108	83	1
115°	1	238	186	118	92	1
125°	1	196	216	144	112	1
135°	1	75	231	185	145	1
145°	1	7	179	209	180	1
155°	1	4	40	138	153	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-LD5-10-W-RS-UNV-L850-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6
2.5°	2802.3	2791.4	2772.2	2770.8	2758.5	2753.1	2754.4	2750.3	2746.2	2739.4	2728.4
5°	2792.7	2772.2	2740.8	2740.8	2747.6	2754.4	2770.8	2785.9	2790.0	2799.6	2798.2
7.5°	2774.9	2743.5	2713.4	2738.0	2762.6	2772.2	2791.4	2818.7	2861.1	2939.1	3015.7
10°	2746.2	2703.8	2694.3	2733.9	2766.7	2795.5	2839.2	2966.4	3084.0	3200.3	3275.5
12.5°	2713.4	2661.4	2675.1	2725.7	2802.3	2857.0	2969.2	3137.4	3230.4	3365.8	3476.5
15°	2664.2	2614.9	2639.6	2714.8	2874.8	2992.4	3055.3	3260.5	3409.5	3521.7	3646.1
17.5°	2610.8	2567.1	2601.3	2733.9	2951.4	3064.9	3166.1	3339.8	3483.4	3648.9	3766.5
20°	2552.0	2513.7	2557.5	2758.5	2988.3	3104.6	3216.7	3382.2	3572.3	3743.2	3844.4
22.5°	2483.6	2449.4	2516.5	2769.5	3002.0	3118.2	3227.6	3420.5	3617.4	3758.3	3844.4
25°	2409.8	2375.6	2467.2	2747.6	2988.3	3095.0	3212.6	3441.0	3602.4	3713.2	3819.8
27.5°	2330.5	2292.2	2430.3	2702.5	2933.6	3053.9	3186.6	3401.3	3528.5	3651.6	3759.7
30°	2233.4	2199.2	2366.0	2636.8	2857.0	2999.2	3112.8	3305.6	3427.3	3549.0	3632.5
32.5°	2136.3	2103.4	2288.1	2543.8	2769.5	2903.5	3012.9	3163.4	3301.5	3395.9	3447.8
35°	2031.0	1994.0	2197.8	2430.3	2671.0	2787.3	2878.9	3015.7	3131.9	3201.7	3252.3
37.5°	1925.6	1886.0	2082.9	2311.3	2541.1	2647.8	2724.3	2862.5	2951.4	3008.8	3051.2
40°	1806.7	1765.6	1963.9	2177.3	2405.7	2480.9	2560.2	2683.3	2749.0	2795.5	2816.0
42.5°	1686.3	1645.3	1835.4	2036.4	2240.2	2314.1	2396.1	2493.2	2557.5	2584.8	2584.8
45°	1561.8	1522.2	1702.7	1896.9	2069.2	2154.0	2226.5	2304.5	2357.8	2379.7	2381.1
47.5°	1431.9	1399.1	1571.4	1747.8	1909.2	1983.1	2039.2	2114.4	2160.9	2166.3	2165.0
50°	1299.3	1270.5	1425.1	1598.8	1742.4	1808.0	1857.3	1927.0	1963.9	1962.6	1955.7
52.5°	1159.8	1142.0	1285.6	1444.2	1574.2	1633.0	1676.7	1738.3	1768.4	1768.4	1762.9
55°	1027.1	1016.2	1140.6	1293.8	1415.5	1467.5	1508.5	1563.2	1587.8	1587.8	1579.6
57.5°	893.1	891.7	1008.0	1144.7	1261.0	1307.5	1351.2	1399.1	1421.0	1421.0	1407.3
60°	761.8	768.6	883.5	1009.3	1116.0	1161.1	1199.4	1245.9	1259.6	1262.3	1259.6
62.5°	640.1	657.8	767.2	882.1	988.8	1027.1	1061.3	1106.4	1117.4	1121.5	1114.6
65°	525.2	552.5	663.3	772.7	872.6	912.2	942.3	973.8	983.3	987.4	986.1
67.5°	430.8	459.5	570.3	678.4	770.0	801.4	831.5	858.9	860.2	867.1	861.6
70°	333.7	377.5	488.2	590.8	677.0	705.7	730.3	749.5	753.6	754.9	753.6
72.5°	257.1	309.1	414.4	515.6	593.6	620.9	640.1	655.1	655.1	656.5	652.4
75°	194.2	257.1	359.7	452.7	522.4	549.8	564.8	574.4	568.9	567.6	563.5
77.5°	140.9	213.4	310.5	398.0	463.6	484.1	497.8	499.2	491.0	489.6	481.4
80°	97.1	173.7	268.1	350.1	410.3	430.8	437.6	432.2	425.3	417.1	406.2
82.5°	64.3	140.9	232.5	310.5	366.5	382.9	388.4	380.2	370.6	357.0	339.2
85°	34.2	113.5	202.4	277.6	331.0	346.0	348.7	333.7	318.7	300.9	283.1
87.5°	15.0	93.0	180.5	255.7	302.2	313.2	314.6	298.1	279.0	258.5	236.6
90°	2.7	79.3	166.9	239.3	284.5	294.0	294.0	272.2	253.0	231.1	206.5
92.5°	1.4	75.2	162.7	233.9	279.0	288.6	287.2	264.0	240.7	216.1	191.5
95°	1.4	65.6	153.2	228.4	274.9	284.5	283.1	258.5	233.9	207.9	180.5
97.5°	1.4	54.7	143.6	218.8	268.1	277.6	277.6	254.4	229.8	202.4	173.7
100°	0.0	42.4	132.7	209.2	258.5	270.8	272.2	250.3	224.3	196.9	169.6
102.5°	0.0	28.7	123.1	201.0	251.6	264.0	266.7	248.9	221.6	194.2	166.9
105°	1.4	17.8	110.8	191.5	244.8	258.5	262.6	247.5	220.2	194.2	166.9
107.5°	1.4	12.3	98.5	181.9	239.3	254.4	259.9	247.5	221.6	195.6	169.6
110°	1.4	10.9	83.4	172.3	232.5	248.9	257.1	248.9	224.3	199.7	173.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.4	8.2	62.9	160.0	224.3	243.4	254.4	250.3	228.4	203.8	179.2
115°	1.4	6.8	42.4	147.7	216.1	238.0	251.6	251.6	232.5	209.2	186.0
117.5°	1.4	6.8	28.7	131.3	206.5	231.1	246.2	253.0	238.0	214.7	194.2
120°	1.4	5.5	13.7	112.1	194.2	221.6	240.7	253.0	242.1	221.6	201.0
122.5°	1.4	5.5	10.9	86.2	180.5	210.6	232.5	251.6	246.2	227.0	209.2
125°	1.4	4.1	9.6	57.4	162.7	195.6	221.6	247.5	247.5	232.5	216.1
127.5°	1.4	4.1	8.2	41.0	139.5	179.2	206.5	240.7	247.5	236.6	222.9
130°	1.4	4.1	6.8	12.3	106.7	155.9	188.7	229.8	244.8	239.3	227.0
132.5°	1.4	2.7	6.8	9.6	68.4	121.7	164.1	212.0	236.6	239.3	231.1
135°	1.4	2.7	5.5	8.2	49.2	75.2	131.3	190.1	221.6	231.1	231.1
137.5°	1.4	2.7	5.5	6.8	21.9	56.1	82.1	164.1	202.4	220.2	224.3
140°	1.4	2.7	4.1	5.5	8.2	30.1	58.8	129.9	179.2	203.8	214.7
142.5°	1.4	2.7	4.1	5.5	6.8	6.8	35.6	75.2	150.4	181.9	199.7
145°	1.4	2.7	2.7	4.1	5.5	6.8	6.8	57.4	108.0	155.9	179.2
147.5°	1.4	1.4	2.7	4.1	5.5	5.5	5.5	26.0	64.3	119.0	153.2
150°	1.4	1.4	2.7	2.7	4.1	4.1	5.5	5.5	42.4	67.0	113.5
152.5°	1.4	1.4	2.7	2.7	4.1	4.1	4.1	5.5	5.5	45.1	62.9
155°	1.4	1.4	2.7	2.7	2.7	4.1	4.1	4.1	4.1	5.5	39.7
157.5°	1.4	1.4	2.7	2.7	2.7	2.7	2.7	4.1	4.1	5.5	5.5
160°	1.4	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1	4.1	5.5
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6
2.5°	2742.1	2762.6	2762.6	2780.4	2790.0	2787.3	2790.0	2795.5	2779.1	2773.6
5°	2828.3	2869.3	2889.8	2936.3	2947.3	2967.8	2974.6	2997.9	3003.3	2986.9
7.5°	3099.1	3183.9	3238.6	3294.7	3319.3	3331.6	3353.5	3368.5	3391.8	3374.0
10°	3353.5	3456.0	3534.0	3595.5	3610.6	3622.9	3648.9	3685.8	3683.1	3680.3
12.5°	3573.7	3663.9	3759.7	3848.5	3893.7	3903.3	3941.5	3986.7	3994.9	3958.0
15°	3755.5	3881.4	3989.4	4083.8	4101.6	4126.2	4154.9	4169.9	4163.1	4168.6
17.5°	3907.4	4014.0	4090.6	4141.2	4152.2	4171.3	4197.3	4216.4	4219.2	4220.5
20°	3967.5	4038.7	4112.5	4182.3	4204.1	4223.3	4254.7	4271.2	4268.4	4260.2
22.5°	3956.6	4060.5	4128.9	4186.4	4208.2	4226.0	4253.4	4264.3	4260.2	4252.0
25°	3940.2	4029.1	4089.3	4119.3	4119.3	4133.0	4126.2	4118.0	4108.4	4109.8
27.5°	3862.2	3914.2	3955.2	3989.4	3993.5	3994.9	3990.8	3982.6	3977.1	3964.8
30°	3703.6	3766.5	3785.6	3782.9	3777.4	3776.1	3759.7	3747.3	3732.3	3733.7
32.5°	3517.6	3531.3	3539.5	3516.2	3502.5	3499.8	3484.8	3464.2	3443.7	3421.8
35°	3278.2	3268.7	3249.5	3233.1	3222.2	3205.8	3183.9	3163.4	3137.4	3138.7
37.5°	3047.1	3017.0	2989.7	2944.5	2936.3	2898.0	2855.6	2822.8	2780.4	2757.2
40°	2806.4	2776.3	2742.1	2692.9	2671.0	2635.4	2588.9	2534.2	2500.1	2486.4
42.5°	2576.6	2539.7	2500.1	2441.2	2413.9	2385.2	2335.9	2282.6	2258.0	2253.9
45°	2352.3	2309.9	2271.7	2206.0	2177.3	2143.1	2092.5	2059.7	2024.1	2015.9
47.5°	2136.3	2099.3	2040.5	1989.9	1962.6	1933.8	1881.9	1851.8	1825.8	1816.2
50°	1927.0	1891.5	1846.3	1790.2	1764.3	1736.9	1700.0	1671.3	1641.2	1631.6
52.5°	1739.6	1704.1	1657.6	1613.8	1587.8	1571.4	1537.2	1504.4	1481.2	1466.1
55°	1559.1	1526.3	1483.9	1442.9	1433.3	1411.4	1371.7	1343.0	1328.0	1329.3
57.5°	1393.6	1364.9	1332.1	1292.4	1277.4	1256.9	1230.9	1196.7	1178.9	1173.4
60°	1243.2	1215.8	1188.5	1158.4	1139.2	1124.2	1088.6	1061.3	1038.0	1035.3
62.5°	1099.6	1079.1	1055.8	1025.7	1009.3	992.9	961.5	935.5	917.7	912.2
65°	975.1	957.4	930.0	905.4	889.0	872.6	842.5	816.5	801.4	786.4
67.5°	852.0	837.0	816.5	790.5	775.5	759.0	733.1	704.3	686.6	682.5
70°	742.6	726.2	709.8	682.5	668.8	659.2	630.5	601.8	588.1	582.6
72.5°	648.3	630.5	607.2	588.1	579.9	562.1	534.7	515.6	497.8	486.9
75°	549.8	538.9	522.4	500.6	485.5	473.2	451.3	432.2	417.1	406.2
77.5°	469.1	455.4	441.7	419.9	408.9	398.0	374.7	358.3	343.3	337.8
80°	393.9	381.6	362.4	346.0	336.4	326.9	309.1	291.3	280.4	274.9
82.5°	325.5	314.6	299.5	285.8	274.9	268.1	251.6	236.6	227.0	218.8
85°	269.4	255.7	242.1	229.8	221.6	216.1	203.8	192.8	180.5	177.8
87.5°	221.6	210.6	198.3	186.0	180.5	173.7	162.7	154.5	145.0	140.9
90°	190.1	176.4	165.5	155.9	150.4	146.3	138.1	127.2	120.4	116.2
92.5°	172.3	160.0	150.4	140.9	136.8	132.7	123.1	114.9	108.0	102.6
95°	161.4	149.1	139.5	131.3	127.2	124.5	116.2	108.0	101.2	97.1
97.5°	153.2	139.5	129.9	123.1	119.0	116.2	109.4	102.6	95.7	91.6
100°	146.3	132.7	123.1	116.2	113.5	110.8	103.9	97.1	91.6	87.5
102.5°	143.6	128.6	119.0	113.5	110.8	108.0	101.2	95.7	88.9	84.8
105°	143.6	127.2	117.6	110.8	108.0	105.3	99.8	94.4	87.5	83.4
107.5°	146.3	128.6	117.6	112.1	109.4	106.7	99.8	94.4	87.5	83.4
110°	150.4	132.7	120.4	113.5	110.8	108.0	101.2	95.7	88.9	84.8



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-10-W-RS-UNV-L850-CD1-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	155.9	136.8	124.5	116.2	113.5	110.8	103.9	98.5	91.6	87.5
115°	162.7	142.2	129.9	120.4	117.6	114.9	108.0	101.2	95.7	91.6
117.5°	171.0	150.4	135.4	125.8	123.1	119.0	112.1	105.3	99.8	95.7
120°	179.2	160.0	143.6	132.7	128.6	124.5	117.6	110.8	103.9	99.8
122.5°	188.7	168.2	151.8	140.9	136.8	132.7	124.5	117.6	110.8	105.3
125°	198.3	179.2	161.4	149.1	143.6	139.5	131.3	123.1	117.6	112.1
127.5°	206.5	188.7	171.0	158.6	153.2	147.7	139.5	131.3	124.5	120.4
130°	213.4	198.3	181.9	168.2	162.7	158.6	147.7	139.5	132.7	128.6
132.5°	220.2	206.5	192.8	179.2	173.7	168.2	158.6	149.1	142.2	136.8
135°	224.3	213.4	202.4	190.1	184.6	177.8	168.2	158.6	150.4	145.0
137.5°	224.3	218.8	209.2	199.7	194.2	188.7	177.8	168.2	160.0	155.9
140°	217.5	218.8	214.7	207.9	202.4	198.3	188.7	177.8	169.6	165.5
142.5°	207.9	212.0	214.7	210.6	207.9	205.1	196.9	187.4	179.2	173.7
145°	192.8	201.0	206.5	210.6	209.2	207.9	201.0	194.2	186.0	180.5
147.5°	173.7	186.0	192.8	202.4	205.1	205.1	202.4	196.9	190.1	186.0
150°	146.3	164.1	176.4	186.0	190.1	195.6	195.6	191.5	187.4	183.3
152.5°	103.9	132.7	150.4	164.1	169.6	175.1	181.9	179.2	173.7	171.0
155°	58.8	72.5	109.4	131.3	138.1	145.0	155.9	158.6	157.3	153.2
157.5°	30.1	49.2	61.5	71.1	75.2	86.2	108.0	123.1	121.7	124.5
160°	6.8	8.2	23.2	43.8	49.2	52.0	57.4	61.5	61.5	58.8
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)