

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-LD5-14-W-RS-UNV-L850-CD2-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-LD5-14-W-RS-UNV-L850-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

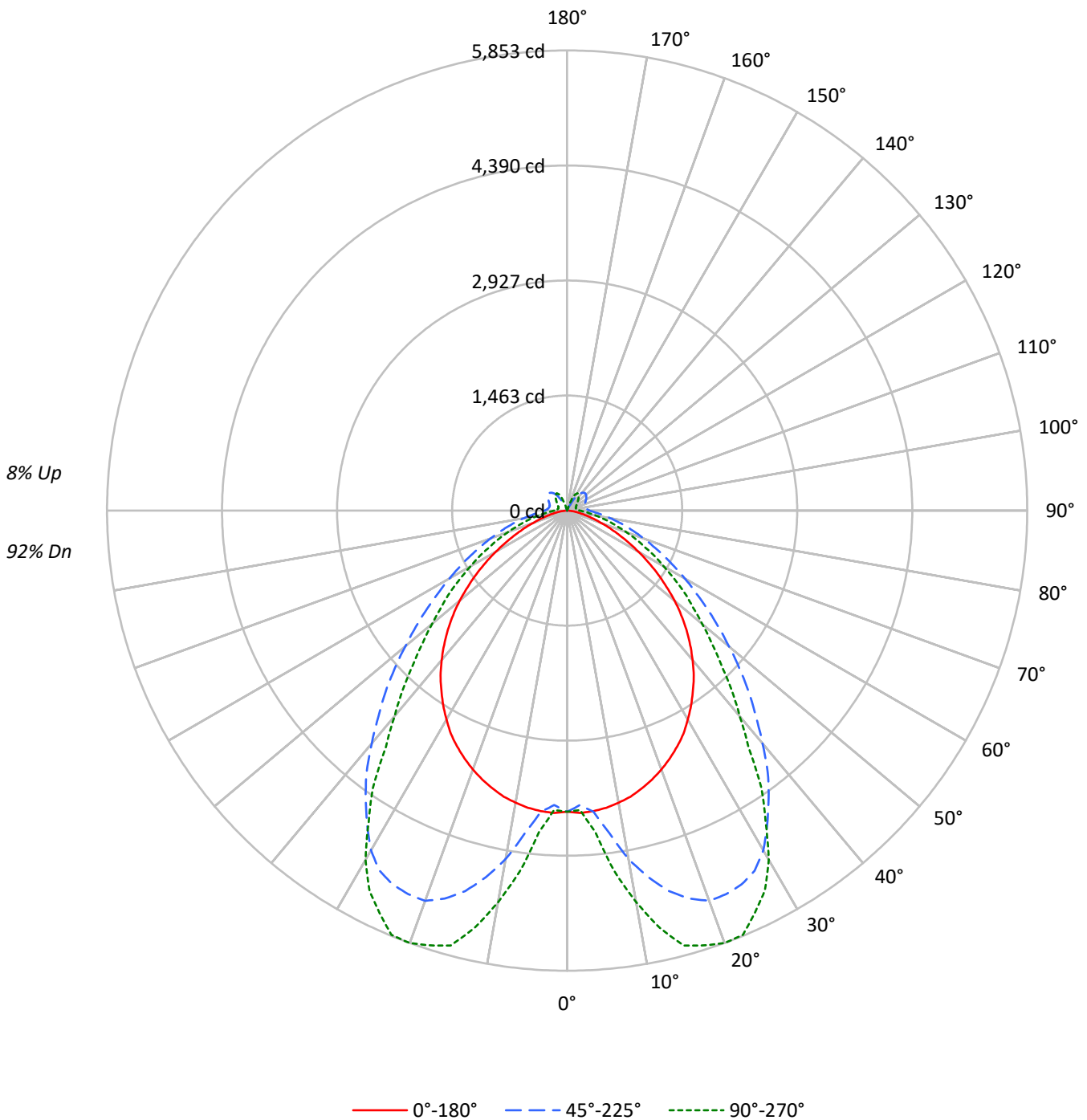
Lumens per Lamp: N/A
Luminaire Lumens: 13910.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 105.4
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



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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°	20619	20619	20619
5°	20662	19330	20116
10°	20487	21384	22917
15°	20196	22729	24310
20°	19817	23097	23529
25°	19331	22312	21715
30°	18675	20798	19047
35°	17876	18396	15593
40°	16920	15859	12127
45°	15757	13453	9729
50°	14323	11170	7851
55°	12585	9193	6427
60°	10596	7530	5068
65°	8522	6108	3929
70°	6558	4881	2995
75°	4883	3855	2167
80°	3426	2969	1537
85°	2049	2239	1052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	2.8
10°-20°	1364.7	9.8
20°-30°	2246.9	16.2
30°-40°	2524.3	18.1
40°-50°	2246.3	16.1
50°-60°	1737.2	12.5
60°-70°	1179.7	8.5
70°-80°	704.0	5.1
80°-90°	377.6	2.7
90°-100°	248.5	1.8
100°-110°	210.8	1.5
110°-120°	195.0	1.4
120°-130°	181.7	1.3
130°-140°	154.0	1.1
140°-150°	105.2	0.8
150°-160°	40.7	0.3
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	4003.8	28.8
0°-40°	6528.1	46.9
0°-60°	10511.6	75.6
0°-90°	12772.8	91.8
90°-120°	654.3	4.7
90°-150°	1095.2	7.9
90°-180°	1137.0	8.2
0°-180°	13910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	3837	3784	3844	4049	4104	364
15°	3660	4111	5009	5635	5727	1032
25°	3311	4252	5248	5659	5646	1523
35°	2790	3829	4468	4427	4312	1743
45°	2146	2959	3271	2991	2770	1651
55°	1411	2016	2170	1969	1826	1260
65°	722	1253	1355	1221	1080	727
75°	267	755	774	667	558	292
85°	47	475	389	304	244	58
90°	4	404	284	207	160	4
95°	2	391	248	175	133	1
105°	2	355	229	148	115	1
115°	2	327	256	162	126	2
125°	2	269	297	197	154	2
135°	2	103	318	254	199	1
145°	2	9	246	288	248	1
155°	2	6	54	190	210	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-LD5-14-W-RS-UNV-L850-CD2-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1
2.5°	3849.9	3834.8	3808.5	3806.7	3789.8	3782.2	3784.1	3778.5	3772.8	3763.4	3748.4
5°	3836.7	3808.5	3765.3	3765.3	3774.7	3784.1	3806.7	3827.3	3833.0	3846.1	3844.2
7.5°	3812.3	3769.1	3727.7	3761.6	3795.4	3808.5	3834.8	3872.4	3930.7	4037.8	4143.0
10°	3772.8	3714.6	3701.4	3755.9	3801.0	3840.5	3900.6	4075.3	4236.9	4396.6	4500.0
12.5°	3727.7	3656.4	3675.1	3744.7	3849.9	3925.0	4079.1	4310.2	4438.0	4624.0	4776.2
15°	3660.1	3592.5	3626.3	3729.6	3949.5	4111.0	4197.5	4479.3	4684.1	4838.2	5009.2
17.5°	3586.8	3526.7	3573.7	3755.9	4054.7	4210.6	4349.7	4588.3	4785.6	5012.9	5174.5
20°	3506.0	3453.4	3513.6	3789.8	4105.4	4265.1	4419.2	4646.5	4907.7	5142.6	5281.6
22.5°	3412.1	3365.1	3457.2	3804.8	4124.2	4283.9	4434.2	4699.1	4969.7	5163.2	5281.6
25°	3310.6	3263.7	3389.5	3774.7	4105.4	4252.0	4413.5	4727.3	4949.0	5101.2	5247.8
27.5°	3201.7	3149.0	3338.8	3712.7	4030.3	4195.6	4377.9	4672.8	4847.6	5016.7	5165.1
30°	3068.3	3021.3	3250.5	3622.5	3925.0	4120.4	4276.4	4541.3	4708.5	4875.8	4990.4
32.5°	2934.9	2889.8	3143.4	3494.8	3804.8	3988.9	4139.2	4345.9	4535.7	4665.3	4736.7
35°	2790.2	2739.4	3019.4	3338.8	3669.5	3829.2	3955.1	4143.0	4302.7	4398.5	4468.0
37.5°	2645.5	2591.0	2861.6	3175.4	3491.0	3637.6	3742.8	3932.5	4054.7	4133.6	4191.8
40°	2482.0	2425.7	2698.1	2991.2	3305.0	3408.3	3517.3	3686.4	3776.6	3840.5	3868.7
42.5°	2316.7	2260.3	2521.5	2797.7	3077.6	3179.1	3291.8	3425.2	3513.6	3551.1	3551.1
45°	2145.7	2091.2	2339.2	2606.0	2842.8	2959.3	3058.9	3166.0	3239.2	3269.3	3271.2
47.5°	1967.2	1922.1	2158.9	2401.2	2623.0	2724.4	2801.4	2904.8	2968.7	2976.2	2974.3
50°	1785.0	1745.5	1957.8	2196.4	2393.7	2483.9	2551.6	2647.4	2698.1	2696.2	2686.8
52.5°	1593.3	1568.9	1766.2	1984.1	2162.6	2243.4	2303.5	2388.1	2429.4	2429.4	2421.9
55°	1411.1	1396.0	1567.0	1777.4	1944.7	2016.1	2072.4	2147.6	2181.4	2181.4	2170.1
57.5°	1226.9	1225.0	1384.8	1572.6	1732.4	1796.2	1856.4	1922.1	1952.2	1952.2	1933.4
60°	1046.6	1055.9	1213.8	1386.6	1533.2	1595.2	1647.8	1711.7	1730.5	1734.2	1730.5
62.5°	879.3	903.8	1054.1	1211.9	1358.4	1411.1	1458.0	1520.0	1535.1	1540.7	1531.3
65°	721.5	759.1	911.3	1061.6	1198.7	1253.2	1294.6	1337.8	1350.9	1356.6	1354.7
67.5°	591.9	631.3	783.5	931.9	1057.8	1101.0	1142.4	1180.0	1181.8	1191.2	1183.7
70°	458.5	518.6	670.8	811.7	930.1	969.5	1003.3	1029.6	1035.3	1037.2	1035.3
72.5°	353.2	424.6	569.3	708.3	815.4	853.0	879.3	900.0	900.0	901.9	896.2
75°	266.8	353.2	494.2	621.9	717.7	755.3	776.0	789.1	781.6	779.7	774.1
77.5°	193.5	293.1	426.5	546.8	636.9	665.1	683.9	685.8	674.5	672.6	661.4
80°	133.4	238.6	368.3	481.0	563.7	591.9	601.2	593.7	584.3	573.1	558.0
82.5°	88.3	193.5	319.4	426.5	503.5	526.1	533.6	522.3	509.2	490.4	466.0
85°	47.0	155.9	278.1	381.4	454.7	475.4	479.1	458.5	437.8	413.4	388.9
87.5°	20.7	127.8	248.0	351.4	415.2	430.3	432.1	409.6	383.3	355.1	325.1
90°	3.8	109.0	229.2	328.8	390.8	404.0	404.0	373.9	347.6	317.5	283.7
92.5°	1.9	103.3	223.6	321.3	383.3	396.4	394.6	362.6	330.7	296.9	263.0
95°	1.9	90.2	210.4	313.8	377.7	390.8	388.9	355.1	321.3	285.6	248.0
97.5°	1.9	75.2	197.3	300.6	368.3	381.4	381.4	349.5	315.7	278.1	238.6
100°	0.0	58.2	182.3	287.5	355.1	372.0	373.9	343.8	308.1	270.6	233.0
102.5°	0.0	39.5	169.1	276.2	345.7	362.6	366.4	342.0	304.4	266.8	229.2
105°	1.9	24.4	152.2	263.0	336.3	355.1	360.7	340.1	302.5	266.8	229.2
107.5°	1.9	16.9	135.3	249.9	328.8	349.5	357.0	340.1	304.4	268.7	233.0
110°	1.9	15.0	114.6	236.7	319.4	342.0	353.2	342.0	308.1	274.3	238.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.9	11.3	86.4	219.8	308.1	334.4	349.5	343.8	313.8	280.0	246.1
115°	1.9	9.4	58.2	202.9	296.9	326.9	345.7	345.7	319.4	287.5	255.5
117.5°	1.9	9.4	39.5	180.4	283.7	317.5	338.2	347.6	326.9	295.0	266.8
120°	1.9	7.5	18.8	154.1	266.8	304.4	330.7	347.6	332.6	304.4	276.2
122.5°	1.9	7.5	15.0	118.4	248.0	289.4	319.4	345.7	338.2	311.9	287.5
125°	1.9	5.6	13.2	78.9	223.6	268.7	304.4	340.1	340.1	319.4	296.9
127.5°	1.9	5.6	11.3	56.4	191.6	246.1	283.7	330.7	340.1	325.1	306.3
130°	1.9	5.6	9.4	16.9	146.6	214.2	259.3	315.7	336.3	328.8	311.9
132.5°	1.9	3.8	9.4	13.2	93.9	167.2	225.5	291.2	325.1	328.8	317.5
135°	1.9	3.8	7.5	11.3	67.6	103.3	180.4	261.2	304.4	317.5	317.5
137.5°	1.9	3.8	7.5	9.4	30.1	77.0	112.7	225.5	278.1	302.5	308.1
140°	1.9	3.8	5.6	7.5	11.3	41.3	80.8	178.5	246.1	280.0	295.0
142.5°	1.9	3.8	5.6	7.5	9.4	9.4	48.9	103.3	206.7	249.9	274.3
145°	1.9	3.8	3.8	5.6	7.5	9.4	9.4	78.9	148.4	214.2	246.1
147.5°	1.9	1.9	3.8	5.6	7.5	7.5	7.5	35.7	88.3	163.5	210.4
150°	1.9	1.9	3.8	3.8	5.6	5.6	7.5	7.5	58.2	92.1	155.9
152.5°	1.9	1.9	3.8	3.8	5.6	5.6	5.6	7.5	7.5	62.0	86.4
155°	1.9	1.9	3.8	3.8	3.8	5.6	5.6	5.6	5.6	7.5	54.5
157.5°	1.9	1.9	3.8	3.8	3.8	3.8	3.8	5.6	5.6	7.5	7.5
160°	1.9	3.8	3.8	3.8	3.8	3.8	3.8	5.6	5.6	5.6	7.5
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°	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1	3831.1
2.5°	3767.2	3795.4	3795.4	3819.8	3833.0	3829.2	3833.0	3840.5	3817.9	3810.4
5°	3885.6	3941.9	3970.1	4034.0	4049.0	4077.2	4086.6	4118.6	4126.1	4103.5
7.5°	4257.6	4374.1	4449.2	4526.3	4560.1	4577.0	4607.1	4627.7	4659.7	4635.3
10°	4607.1	4748.0	4855.1	4939.6	4960.3	4977.2	5012.9	5063.7	5059.9	5056.1
12.5°	4909.6	5033.6	5165.1	5287.2	5349.2	5362.4	5415.0	5477.0	5488.3	5437.6
15°	5159.5	5332.3	5480.8	5610.4	5634.8	5668.7	5708.1	5728.8	5719.4	5726.9
17.5°	5368.0	5514.6	5619.8	5689.3	5704.4	5730.7	5766.4	5792.7	5796.4	5798.3
20°	5450.7	5548.4	5649.9	5745.7	5775.8	5802.1	5845.3	5867.8	5864.1	5852.8
22.5°	5435.7	5578.5	5672.4	5751.3	5781.4	5805.8	5843.4	5858.4	5852.8	5841.5
25°	5413.1	5535.3	5617.9	5659.3	5659.3	5678.1	5668.7	5657.4	5644.2	5646.1
27.5°	5306.0	5377.4	5433.8	5480.8	5486.4	5488.3	5482.6	5471.4	5463.9	5446.9
30°	5088.1	5174.5	5200.8	5197.1	5189.5	5187.7	5165.1	5148.2	5127.5	5129.4
32.5°	4832.5	4851.3	4862.6	4830.7	4811.9	4808.1	4787.5	4759.3	4731.1	4701.0
35°	4503.7	4490.6	4464.3	4441.7	4426.7	4404.2	4374.1	4345.9	4310.2	4312.1
37.5°	4186.2	4144.9	4107.3	4045.3	4034.0	3981.4	3923.2	3878.1	3819.8	3787.9
40°	3855.5	3814.2	3767.2	3699.6	3669.5	3620.7	3556.8	3481.6	3434.6	3415.9
42.5°	3539.9	3489.1	3434.6	3353.8	3316.3	3276.8	3209.2	3135.9	3102.1	3096.4
45°	3231.7	3173.5	3120.9	3030.7	2991.2	2944.2	2874.7	2829.6	2780.8	2769.5
47.5°	2934.9	2884.1	2803.3	2733.8	2696.2	2656.8	2585.4	2544.0	2508.3	2495.2
50°	2647.4	2598.5	2536.5	2459.5	2423.8	2386.2	2335.5	2296.0	2254.7	2241.5
52.5°	2390.0	2341.1	2277.2	2217.1	2181.4	2158.9	2111.9	2066.8	2034.9	2014.2
55°	2142.0	2096.9	2038.6	1982.2	1969.1	1939.0	1884.5	1845.1	1824.4	1826.3
57.5°	1914.6	1875.1	1830.1	1775.6	1754.9	1726.7	1691.0	1644.0	1619.6	1612.1
60°	1707.9	1670.3	1632.8	1591.4	1565.1	1544.5	1495.6	1458.0	1426.1	1422.3
62.5°	1510.6	1482.5	1450.5	1409.2	1386.6	1364.1	1320.9	1285.2	1260.7	1253.2
65°	1339.7	1315.2	1277.7	1243.8	1221.3	1198.7	1157.4	1121.7	1101.0	1080.4
67.5°	1170.6	1149.9	1121.7	1086.0	1065.3	1042.8	1007.1	967.6	943.2	937.6
70°	1020.2	997.7	975.2	937.6	918.8	905.6	866.2	826.7	807.9	800.4
72.5°	890.6	866.2	834.2	807.9	796.7	772.2	734.7	708.3	683.9	668.9
75°	755.3	740.3	717.7	687.7	667.0	650.1	620.0	593.7	573.1	558.0
77.5°	644.5	625.7	606.9	576.8	561.8	546.8	514.8	492.3	471.6	464.1
80°	541.1	524.2	497.9	475.4	462.2	449.1	424.6	400.2	385.2	377.7
82.5°	447.2	432.1	411.5	392.7	377.7	368.3	345.7	325.1	311.9	300.6
85°	370.1	351.4	332.6	315.7	304.4	296.9	280.0	264.9	248.0	244.3
87.5°	304.4	289.4	272.4	255.5	248.0	238.6	223.6	212.3	199.2	193.5
90°	261.2	242.4	227.3	214.2	206.7	201.0	189.8	174.7	165.3	159.7
92.5°	236.7	219.8	206.7	193.5	187.9	182.3	169.1	157.8	148.4	140.9
95°	221.7	204.8	191.6	180.4	174.7	171.0	159.7	148.4	139.0	133.4
97.5°	210.4	191.6	178.5	169.1	163.5	159.7	150.3	140.9	131.5	125.9
100°	201.0	182.3	169.1	159.7	155.9	152.2	142.8	133.4	125.9	120.2
102.5°	197.3	176.6	163.5	155.9	152.2	148.4	139.0	131.5	122.1	116.5
105°	197.3	174.7	161.6	152.2	148.4	144.7	137.2	129.6	120.2	114.6
107.5°	201.0	176.6	161.6	154.1	150.3	146.6	137.2	129.6	120.2	114.6
110°	206.7	182.3	165.3	155.9	152.2	148.4	139.0	131.5	122.1	116.5



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-14-W-RS-UNV-L850-CD2-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	214.2	187.9	171.0	159.7	155.9	152.2	142.8	135.3	125.9	120.2
115°	223.6	195.4	178.5	165.3	161.6	157.8	148.4	139.0	131.5	125.9
117.5°	234.9	206.7	186.0	172.9	169.1	163.5	154.1	144.7	137.2	131.5
120°	246.1	219.8	197.3	182.3	176.6	171.0	161.6	152.2	142.8	137.2
122.5°	259.3	231.1	208.6	193.5	187.9	182.3	171.0	161.6	152.2	144.7
125°	272.4	246.1	221.7	204.8	197.3	191.6	180.4	169.1	161.6	154.1
127.5°	283.7	259.3	234.9	218.0	210.4	202.9	191.6	180.4	171.0	165.3
130°	293.1	272.4	249.9	231.1	223.6	218.0	202.9	191.6	182.3	176.6
132.5°	302.5	283.7	264.9	246.1	238.6	231.1	218.0	204.8	195.4	187.9
135°	308.1	293.1	278.1	261.2	253.7	244.3	231.1	218.0	206.7	199.2
137.5°	308.1	300.6	287.5	274.3	266.8	259.3	244.3	231.1	219.8	214.2
140°	298.7	300.6	295.0	285.6	278.1	272.4	259.3	244.3	233.0	227.3
142.5°	285.6	291.2	295.0	289.4	285.6	281.8	270.6	257.4	246.1	238.6
145°	264.9	276.2	283.7	289.4	287.5	285.6	276.2	266.8	255.5	248.0
147.5°	238.6	255.5	264.9	278.1	281.8	281.8	278.1	270.6	261.2	255.5
150°	201.0	225.5	242.4	255.5	261.2	268.7	268.7	263.0	257.4	251.8
152.5°	142.8	182.3	206.7	225.5	233.0	240.5	249.9	246.1	238.6	234.9
155°	80.8	99.6	150.3	180.4	189.8	199.2	214.2	218.0	216.1	210.4
157.5°	41.3	67.6	84.6	97.7	103.3	118.4	148.4	169.1	167.2	171.0
160°	9.4	11.3	31.9	60.1	67.6	71.4	78.9	84.6	84.6	80.8
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)