

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-L835-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-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (476) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

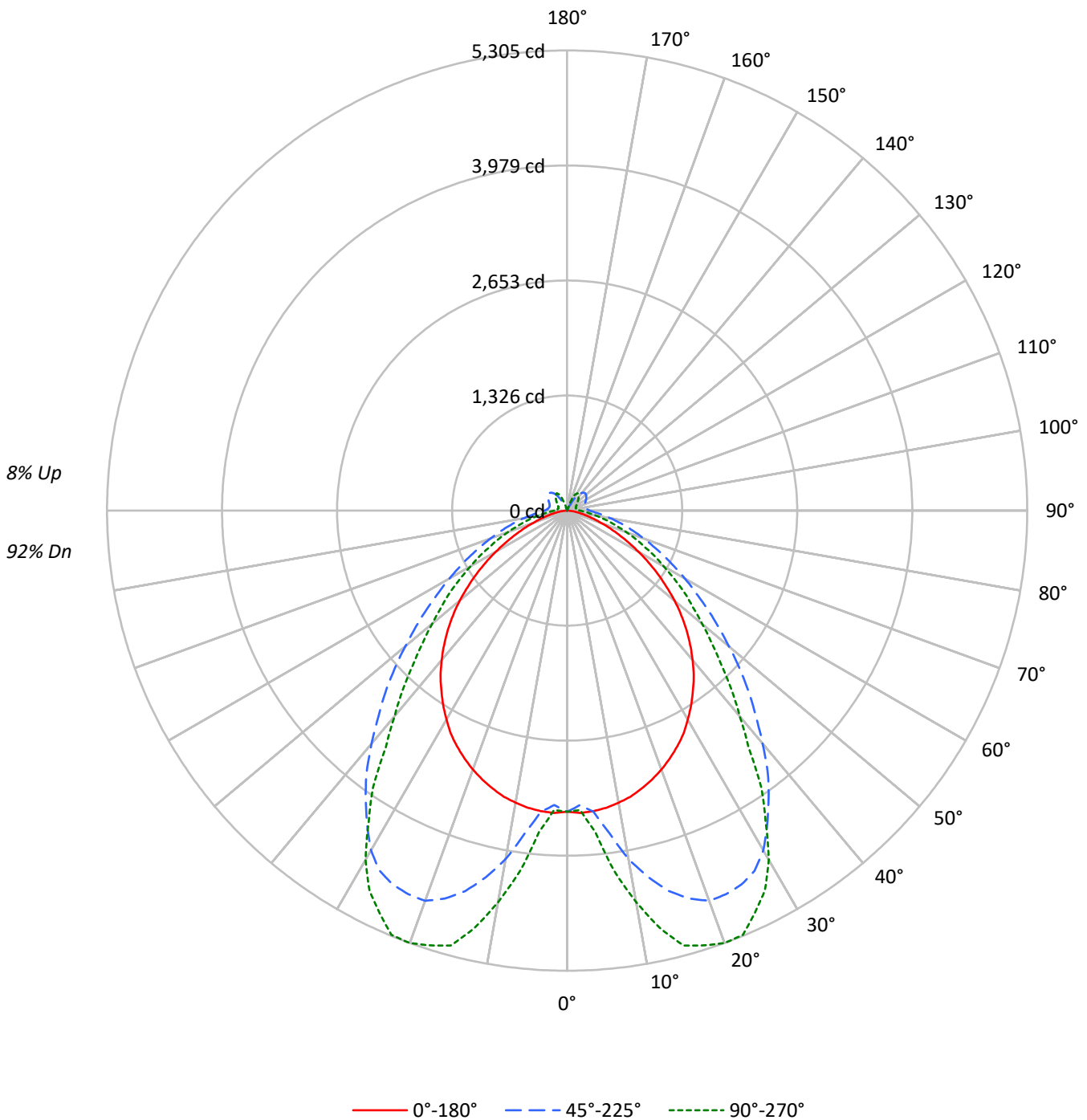
Lumens per Lamp: N/A  
Luminaire Lumens: 12608.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

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	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°	18689	18689	18689
5°	18728	17520	18233
10°	18569	19383	20772
15°	18306	20601	22034
20°	17963	20935	21327
25°	17522	20223	19682
30°	16927	18851	17264
35°	16202	16675	14133
40°	15336	14374	10992
45°	14282	12193	8818
50°	12982	10125	7116
55°	11407	8332	5826
60°	9604	6825	4594
65°	7725	5536	3561
70°	5943	4424	2715
75°	4426	3495	1964
80°	3105	2691	1393
85°	1857	2030	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.5	2.8
10°-20°	1237.0	9.8
20°-30°	2036.6	16.2
30°-40°	2288.0	18.1
40°-50°	2036.1	16.1
50°-60°	1574.6	12.5
60°-70°	1069.2	8.5
70°-80°	638.1	5.1
80°-90°	342.3	2.7
90°-100°	225.2	1.8
100°-110°	191.0	1.5
110°-120°	176.8	1.4
120°-130°	164.7	1.3
130°-140°	139.6	1.1
140°-150°	95.4	0.8
150°-160°	36.9	0.3
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	3629.1	28.8
0°-40°	5917.0	46.9
0°-60°	9527.7	75.6
0°-90°	11577.3	91.8
90°-120°	593.0	4.7
90°-150°	992.7	7.9
90°-180°	1031.0	8.2
0°-180°	12608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3472	3472	3472	3472	3472	
5°	3478	3430	3484	3670	3719	330
15°	3318	3726	4540	5107	5191	935
25°	3001	3854	4757	5130	5118	1380
35°	2529	3471	4050	4012	3908	1580
45°	1945	2682	2965	2711	2510	1496
55°	1279	1827	1967	1785	1655	1142
65°	654	1136	1228	1107	979	659
75°	242	685	702	605	506	265
85°	43	431	352	276	221	52
90°	3	366	257	187	145	4
95°	2	354	225	158	121	1
105°	2	322	208	134	104	1
115°	2	296	232	146	114	2
125°	2	244	269	179	140	2
135°	2	94	288	230	180	1
145°	2	8	223	261	225	1
155°	2	5	49	172	191	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-L835-CD2-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5
2.5°	3489.5	3475.9	3452.1	3450.4	3435.0	3428.2	3429.9	3424.8	3419.7	3411.2	3397.6
5°	3477.6	3452.1	3412.9	3412.9	3421.4	3429.9	3450.4	3469.1	3474.2	3486.1	3484.4
7.5°	3455.5	3416.3	3378.8	3409.5	3440.1	3452.1	3475.9	3510.0	3562.8	3659.8	3755.2
10°	3419.7	3366.9	3355.0	3404.4	3445.2	3481.0	3535.5	3693.9	3840.3	3985.1	4078.8
12.5°	3378.8	3314.1	3331.1	3394.2	3489.5	3557.6	3697.3	3906.8	4022.6	4191.2	4329.1
15°	3317.5	3256.2	3286.9	3380.5	3579.8	3726.2	3804.6	4060.0	4245.7	4385.3	4540.3
17.5°	3251.1	3196.6	3239.2	3404.4	3675.2	3816.5	3942.5	4158.8	4337.6	4543.7	4690.2
20°	3177.9	3130.2	3184.7	3435.0	3721.1	3865.9	4005.5	4211.6	4448.3	4661.2	4787.2
22.5°	3092.7	3050.1	3133.6	3448.6	3738.2	3882.9	4019.2	4259.3	4504.5	4679.9	4787.2
25°	3000.8	2958.2	3072.3	3421.4	3721.1	3854.0	4000.4	4284.8	4485.8	4623.7	4756.6
27.5°	2902.0	2854.3	3026.3	3365.2	3653.0	3802.9	3968.1	4235.5	4393.8	4547.1	4681.6
30°	2781.1	2738.5	2946.3	3283.5	3557.6	3734.8	3876.1	4116.2	4267.8	4419.4	4523.3
32.5°	2660.1	2619.3	2849.2	3167.6	3448.6	3615.5	3751.8	3939.1	4111.1	4228.6	4293.4
35°	2529.0	2483.0	2736.8	3026.3	3326.0	3470.8	3584.9	3755.2	3900.0	3986.8	4049.8
37.5°	2397.9	2348.5	2593.7	2878.1	3164.2	3297.1	3392.4	3564.5	3675.2	3746.7	3799.5
40°	2249.7	2198.6	2445.6	2711.2	2995.6	3089.3	3188.1	3341.4	3423.1	3481.0	3506.6
42.5°	2099.8	2048.8	2285.5	2535.8	2789.6	2881.5	2983.7	3104.6	3184.7	3218.7	3218.7
45°	1944.9	1895.5	2120.3	2362.1	2576.7	2682.3	2772.5	2869.6	2936.0	2963.3	2965.0
47.5°	1783.1	1742.2	1956.8	2176.5	2377.4	2469.4	2539.2	2632.9	2690.8	2697.6	2695.9
50°	1617.9	1582.1	1774.6	1990.9	2169.7	2251.4	2312.7	2399.6	2445.6	2443.9	2435.3
52.5°	1444.2	1422.0	1600.9	1798.4	1960.2	2033.4	2087.9	2164.6	2202.0	2202.0	2195.2
55°	1279.0	1265.4	1420.3	1611.1	1762.6	1827.4	1878.4	1946.6	1977.2	1977.2	1967.0
57.5°	1112.1	1110.4	1255.1	1425.4	1570.2	1628.1	1682.6	1742.2	1769.5	1769.5	1752.4
60°	948.6	957.1	1100.2	1256.8	1389.7	1445.9	1493.6	1551.5	1568.5	1571.9	1568.5
62.5°	797.0	819.2	955.4	1098.5	1231.3	1279.0	1321.6	1377.8	1391.4	1396.5	1388.0
65°	654.0	688.0	826.0	962.2	1086.5	1135.9	1173.4	1212.6	1224.5	1229.6	1227.9
67.5°	536.5	572.2	710.2	844.7	958.8	998.0	1035.4	1069.5	1071.2	1079.7	1072.9
70°	415.5	470.0	608.0	735.7	843.0	878.8	909.4	933.3	938.4	940.1	938.4
72.5°	320.2	384.9	516.0	642.0	739.1	773.2	797.0	815.8	815.8	817.5	812.3
75°	241.8	320.2	447.9	563.7	650.6	684.6	703.4	715.3	708.5	706.8	701.7
77.5°	175.4	265.7	386.6	495.6	577.3	602.9	619.9	621.6	611.4	609.7	599.5
80°	120.9	216.3	333.8	436.0	510.9	536.5	545.0	538.2	529.6	519.4	505.8
82.5°	80.0	175.4	289.5	386.6	456.4	476.9	483.7	473.4	461.5	444.5	422.4
85°	42.6	141.4	252.0	345.7	412.1	430.9	434.3	415.5	396.8	374.7	352.5
87.5°	18.7	115.8	224.8	318.5	376.4	390.0	391.7	371.3	347.4	321.9	294.6
90°	3.4	98.8	207.8	298.0	354.2	366.2	366.2	338.9	315.1	287.8	257.2
92.5°	1.7	93.7	202.7	291.2	347.4	359.3	357.6	328.7	299.7	269.1	238.4
95°	1.7	81.7	190.7	284.4	342.3	354.2	352.5	321.9	291.2	258.9	224.8
97.5°	1.7	68.1	178.8	272.5	333.8	345.7	345.7	316.8	286.1	252.0	216.3
100°	0.0	52.8	165.2	260.6	321.9	337.2	338.9	311.7	279.3	245.2	211.2
102.5°	0.0	35.8	153.3	250.3	313.4	328.7	332.1	310.0	275.9	241.8	207.8
105°	1.7	22.1	137.9	238.4	304.8	321.9	327.0	308.2	274.2	241.8	207.8
107.5°	1.7	15.3	122.6	226.5	298.0	316.8	323.6	308.2	275.9	243.5	211.2
110°	1.7	13.6	103.9	214.6	289.5	310.0	320.2	310.0	279.3	248.6	216.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.7	10.2	78.3	199.3	279.3	303.1	316.8	311.7	284.4	253.8	223.1
115°	1.7	8.5	52.8	183.9	269.1	296.3	313.4	313.4	289.5	260.6	231.6
117.5°	1.7	8.5	35.8	163.5	257.2	287.8	306.5	315.1	296.3	267.4	241.8
120°	1.7	6.8	17.0	139.6	241.8	275.9	299.7	315.1	301.4	275.9	250.3
122.5°	1.7	6.8	13.6	107.3	224.8	262.3	289.5	313.4	306.5	282.7	260.6
125°	1.7	5.1	11.9	71.5	202.7	243.5	275.9	308.2	308.2	289.5	269.1
127.5°	1.7	5.1	10.2	51.1	173.7	223.1	257.2	299.7	308.2	294.6	277.6
130°	1.7	5.1	8.5	15.3	132.8	194.1	235.0	286.1	304.8	298.0	282.7
132.5°	1.7	3.4	8.5	11.9	85.2	151.6	204.4	264.0	294.6	298.0	287.8
135°	1.7	3.4	6.8	10.2	61.3	93.7	163.5	236.7	275.9	287.8	287.8
137.5°	1.7	3.4	6.8	8.5	27.2	69.8	102.2	204.4	252.0	274.2	279.3
140°	1.7	3.4	5.1	6.8	10.2	37.5	73.2	161.8	223.1	253.8	267.4
142.5°	1.7	3.4	5.1	6.8	8.5	8.5	44.3	93.7	187.3	226.5	248.6
145°	1.7	3.4	3.4	5.1	6.8	8.5	8.5	71.5	134.5	194.1	223.1
147.5°	1.7	1.7	3.4	5.1	6.8	6.8	6.8	32.4	80.0	148.2	190.7
150°	1.7	1.7	3.4	3.4	5.1	5.1	6.8	6.8	52.8	83.4	141.4
152.5°	1.7	1.7	3.4	3.4	5.1	5.1	5.1	6.8	6.8	56.2	78.3
155°	1.7	1.7	3.4	3.4	3.4	5.1	5.1	5.1	5.1	6.8	49.4
157.5°	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	6.8
160°	1.7	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	6.8
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°	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5	3472.5
2.5°	3414.6	3440.1	3440.1	3462.3	3474.2	3470.8	3474.2	3481.0	3460.6	3453.8
5°	3521.9	3573.0	3598.5	3656.4	3670.0	3695.6	3704.1	3733.1	3739.9	3719.4
7.5°	3859.1	3964.7	4032.8	4102.6	4133.3	4148.6	4175.8	4194.6	4223.5	4201.4
10°	4175.8	4303.6	4400.6	4477.3	4496.0	4511.3	4543.7	4589.7	4586.3	4582.9
12.5°	4450.0	4562.4	4681.6	4792.3	4848.5	4860.5	4908.2	4964.4	4974.6	4928.6
15°	4676.5	4833.2	4967.8	5085.3	5107.4	5138.1	5173.8	5192.6	5184.0	5190.9
17.5°	4865.6	4998.4	5093.8	5156.8	5170.4	5194.3	5226.6	5250.5	5253.9	5255.6
20°	4940.5	5029.1	5121.0	5207.9	5235.1	5259.0	5298.1	5318.6	5315.2	5305.0
22.5°	4926.9	5056.3	5141.5	5213.0	5240.2	5262.4	5296.4	5310.1	5305.0	5294.7
25°	4906.4	5017.1	5092.1	5129.5	5129.5	5146.6	5138.1	5127.8	5115.9	5117.6
27.5°	4809.4	4874.1	4925.2	4967.8	4972.9	4974.6	4969.5	4959.2	4952.4	4937.1
30°	4611.8	4690.2	4714.0	4710.6	4703.8	4702.1	4681.6	4666.3	4647.6	4649.3
32.5°	4380.2	4397.2	4407.5	4378.5	4361.5	4358.1	4339.3	4313.8	4288.2	4261.0
35°	4082.2	4070.3	4046.4	4026.0	4012.4	3991.9	3964.7	3939.1	3906.8	3908.5
37.5°	3794.4	3756.9	3722.8	3666.6	3656.4	3608.7	3555.9	3515.1	3462.3	3433.3
40°	3494.6	3457.2	3414.6	3353.3	3326.0	3281.8	3223.8	3155.7	3113.2	3096.1
42.5°	3208.5	3162.5	3113.2	3039.9	3005.9	2970.1	2908.8	2842.4	2811.7	2806.6
45°	2929.2	2876.4	2828.7	2747.0	2711.2	2668.7	2605.6	2564.8	2520.5	2510.3
47.5°	2660.1	2614.2	2540.9	2477.9	2443.9	2408.1	2343.4	2305.9	2273.6	2261.6
50°	2399.6	2355.3	2299.1	2229.3	2196.9	2162.9	2116.9	2081.1	2043.6	2031.7
52.5°	2166.3	2122.0	2064.1	2009.6	1977.2	1956.8	1914.2	1873.3	1844.4	1825.7
55°	1941.5	1900.6	1847.8	1796.7	1784.8	1757.5	1708.1	1672.4	1653.6	1655.4
57.5°	1735.4	1699.6	1658.8	1609.4	1590.6	1565.1	1532.7	1490.2	1468.0	1461.2
60°	1548.1	1514.0	1479.9	1442.5	1418.6	1399.9	1355.6	1321.6	1292.6	1289.2
62.5°	1369.2	1343.7	1314.7	1277.3	1256.8	1236.4	1197.2	1164.9	1142.7	1135.9
65°	1214.3	1192.1	1158.1	1127.4	1107.0	1086.5	1049.1	1016.7	998.0	979.2
67.5°	1061.0	1042.3	1016.7	984.4	965.6	945.2	912.8	877.1	854.9	849.8
70°	924.7	904.3	883.9	849.8	832.8	820.9	785.1	749.3	732.3	725.5
72.5°	807.2	785.1	756.1	732.3	722.1	699.9	665.9	642.0	619.9	606.3
75°	684.6	671.0	650.6	623.3	604.6	589.3	562.0	538.2	519.4	505.8
77.5°	584.1	567.1	550.1	522.8	509.2	495.6	466.6	446.2	427.5	420.7
80°	490.5	475.1	451.3	430.9	418.9	407.0	384.9	362.7	349.1	342.3
82.5°	405.3	391.7	373.0	355.9	342.3	333.8	313.4	294.6	282.7	272.5
85°	335.5	318.5	301.4	286.1	275.9	269.1	253.8	240.1	224.8	221.4
87.5°	275.9	262.3	246.9	231.6	224.8	216.3	202.7	192.4	180.5	175.4
90°	236.7	219.7	206.1	194.1	187.3	182.2	172.0	158.4	149.9	144.8
92.5°	214.6	199.3	187.3	175.4	170.3	165.2	153.3	143.1	134.5	127.7
95°	201.0	185.6	173.7	163.5	158.4	155.0	144.8	134.5	126.0	120.9
97.5°	190.7	173.7	161.8	153.3	148.2	144.8	136.2	127.7	119.2	114.1
100°	182.2	165.2	153.3	144.8	141.4	137.9	129.4	120.9	114.1	109.0
102.5°	178.8	160.1	148.2	141.4	137.9	134.5	126.0	119.2	110.7	105.6
105°	178.8	158.4	146.5	137.9	134.5	131.1	124.3	117.5	109.0	103.9
107.5°	182.2	160.1	146.5	139.6	136.2	132.8	124.3	117.5	109.0	103.9
110°	187.3	165.2	149.9	141.4	137.9	134.5	126.0	119.2	110.7	105.6





TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-14-W-RS-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	194.1	170.3	155.0	144.8	141.4	137.9	129.4	122.6	114.1	109.0
115°	202.7	177.1	161.8	149.9	146.5	143.1	134.5	126.0	119.2	114.1
117.5°	212.9	187.3	168.6	156.7	153.3	148.2	139.6	131.1	124.3	119.2
120°	223.1	199.3	178.8	165.2	160.1	155.0	146.5	137.9	129.4	124.3
122.5°	235.0	209.5	189.0	175.4	170.3	165.2	155.0	146.5	137.9	131.1
125°	246.9	223.1	201.0	185.6	178.8	173.7	163.5	153.3	146.5	139.6
127.5°	257.2	235.0	212.9	197.6	190.7	183.9	173.7	163.5	155.0	149.9
130°	265.7	246.9	226.5	209.5	202.7	197.6	183.9	173.7	165.2	160.1
132.5°	274.2	257.2	240.1	223.1	216.3	209.5	197.6	185.6	177.1	170.3
135°	279.3	265.7	252.0	236.7	229.9	221.4	209.5	197.6	187.3	180.5
137.5°	279.3	272.5	260.6	248.6	241.8	235.0	221.4	209.5	199.3	194.1
140°	270.8	272.5	267.4	258.9	252.0	246.9	235.0	221.4	211.2	206.1
142.5°	258.9	264.0	267.4	262.3	258.9	255.5	245.2	233.3	223.1	216.3
145°	240.1	250.3	257.2	262.3	260.6	258.9	250.3	241.8	231.6	224.8
147.5°	216.3	231.6	240.1	252.0	255.5	255.5	252.0	245.2	236.7	231.6
150°	182.2	204.4	219.7	231.6	236.7	243.5	243.5	238.4	233.3	228.2
152.5°	129.4	165.2	187.3	204.4	211.2	218.0	226.5	223.1	216.3	212.9
155°	73.2	90.3	136.2	163.5	172.0	180.5	194.1	197.6	195.8	190.7
157.5°	37.5	61.3	76.6	88.6	93.7	107.3	134.5	153.3	151.6	155.0
160°	8.5	10.2	29.0	54.5	61.3	64.7	71.5	76.6	76.6	73.2
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)